DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

211030

March 19, 1998

Yunru Yang
Roy F. Weston
Raritan Plaza III, Suite 28
101 Fieldcrest Avenue
Edison, New Jersey 08837-3622

Dear Ms. Yang:

RE: RFP #2226 PCB ANALYSIS DCL SET #97C-0425-01

1. MDL and PQL: The majority of the samples were analyzed at and reported from various dilution analyses. On the Form 1 for these samples, however, the MDLS are PQLs were corrected only for the moisture content of the samples but not for the dilution factors. All the reported MDLS and PQLs were based on the undiluted analysis while the dilution factor was clearly listed in each Form 1.

Response: The MDL and PQL were not corrected for dilution on the Form 1 reports submitted. The correct MDL and PQL for each dilution is the MDL and PQL reported multiplied by the dilution factor.

2 MMMNS1 (97C05017) and MS/MSD: The Form 3 (p33) indicated that both Aroclor 1016 and Aroclor 1260 are present in sample MMMNS1; the Form 1 (p 25) , however, did not reflect the presence of the two Aroclors. Please explain. Also in Form 3, the sample concentrations of Aroclor 1260 and Aroclor 1016 could not be reproduced by using the values found in the quantitation reports. Since the concentrations of Aroclor 1016 and Aroclor 1260 in the MS/MSD were less than those in the sample, how can valid recoveries be calculated?

Response: Aroclor 1016 and 1260 are not present in sample MMMNS1, however, a large amount of Aroclor 1254 is present in the sample that causes interferences in the retention time windows for Aroclor 1016 and 1260. The interferences found in the retention time windows for 1016 and 1260 were subtracted from the spike to better approximate the actual recovery.

3. RRRSS2 (97C05015): The percent solid/moisture result listed in the Form 1 is incorrect. The MDLs, PQLs and Aroclor 1254 result must be revised.

Response: The percent moisture was in error and has been corrected on the Form 1. A corrected Form 1 for RRRSS2 is provide with this letter.

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ISO 9002 CERTIFIED

Mr. Richard Wade
Datachem Laboratories
960 West LeVoy Drive
Salt Lake City, Utah 84123

19 February 1998

RE: RFP #2226 PCB ANALYSIS
DCL SET #97C-0425-01 (SDG #MMMNS1)

Dear Mr. Wade:

This letter is to request clarification on issues related to the above-referenced project.

1. MDL AND PQL: The majority of the samples were analyzed at and reported from various dilution analyses. On the Forms 1 of these samples, however, the MDLs and PQLs were corrected only for the moisture content of the samples but not for the dilution factors. All the reported MDLs and PQLs were based on the undiluted analysis, while the dilution factor was clearly listed in Forms 1. Please revise the Forms 1

2. MMMNS1 (97C05017) AND MS/MSD: The Form 3 (p.33) indicated that both Aroclor 1016 and Aroclor 1260 are present in sample MMMNS1; the Form 1 (p. 25), however, did not reflect the presence of the two Aroclors. Please explain. Also in Form 3, the sample concentrations of Aroclor 1260 and Aroclor 1016 could not be reproduced by using the values found in the quantitation reports. Since the concentrations of Aroclor 1016 and Aroclor 1260 in the MS/MSD were less than those in the sample, how can valid recoveries be calculated ?

3. RRRSS2 (97C05015): The percent solid/moisture result listed in the Form 1 is incorrect. The MDLs, PQLs and Aroclor 1254 result must be revised.

Please forward all explanations and resubmittals (if necessary) to my attention by 6 March 1998. Should you have any questions, please feel free to contact me at (732)417-5822.

Sincerely yours,

Yunru Yang
Sr. Project Scientist

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SDG MMMN51 97C-0425

20 soils collected 11/5/97 extracted 11/10/97 analyzed 11/13-14, 16/97

① %S/%M: P. 521 Result was revised from %M 99.9 → 34.7 on 12/9/97
The result summary sheet still has 99.9% as %M (P.23)

P.519
%S = 16.3

⇒ all results must be revised to sample 97C05d5 (RRRSS2)

② The 1254 results were quantitated based on the initial curve calibrated on 11/5/97 which was after sample analyses of 97C05003 (SSSSS2), ~~and~~ 97C05006 (PPPSD2) on 11/13-14/97, and 97C05014 (RRRSD2)

③ Sample 97C05015 was first analyzed without dilution on 11/14/97. The PCB pattern couldn't be identified for 1254 and 1260. The dilution analysis at 1:100 didn't produce recognizable 1254 and 1260 patterns. ⇒ ND for 1254 and 1260 at 1:100. All other PCBs can be reported from 1:1

④ 97C05017 (MMMN51) / MS/MSD
The 1:1 chromatogram couldn't be used for detector saturation (P.400) 1:50 was used to calculate the recoveries of 1260 and 1016. The concs of 1260 in 17/MS/MSD couldn't be verified. The Form 1 of 97C05017 indicates that AR1016 and AR1260 were not detected; yet Form 3 (P.33) shows that both ~~aro~~ Aroclors were present. How can the recovery be calculated when the conc in the MS/MSD is less than the conc in the native sample? P. (P.25)

⑤ 97C05003 (SSSSS2): AR1254 not AR1260 as reported by the lab
14 (RRRSD2)

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FORM K
RUN LOG

Form RLIMS63-V1.0
11199711555244
Page 1

R97BL000

Run ID.....: R97BL000
Start Date.....: 12-NOV-1997 13:20

Method.....: 8082

Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

Date Printed.....: 19-NOV-1997 11:55

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

Sample Name	Dilution	Date Acquired	
PRIME	1	12-NOV-1997 13:20	
PCB221_2.0	1	12-NOV-1997 14:04	all ok
PCB232_2.0	1	12-NOV-1997 14:47	
PCB242_2.0	1	12-NOV-1997 15:31	
PCB248_2.0	1	12-NOV-1997 16:15	
PCB254_2.0	1	12-NOV-1997 16:58	
$1660_2.0	1	12-NOV-1997 17:42	
$1660_1.0	1	12-NOV-1997 18:25	
$1660_.20	1	12-NOV-1997 19:09	
$1660_.10	1	12-NOV-1997 19:53	
$1660_.02	1	12-NOV-1997 20:36	
ICV_1660_1.0	1	12-NOV-1997 21:20	
BL-142006-1	1	12-NOV-1997 22:04	
QC-142006-1	1	12-NOV-1997 22:47	
97C05000	1	13-NOV-1997 09:22	see dil. for AR1254 and 1260 ND (1:500)
97C05001	1	13-NOV-1997 10:06	~~No PCB~~ 1254-10
97C05002	1	13-NOV-1997 10:51	~~No PCB~~ 1254-10
97C05003	1	13-NOV-1997 11:36	~~No PCB~~ 1254 quant. from 11/15/97 curve
97C05004	1	13-NOV-1997 12:20	See dil for AR1254 + 1260 ND (1:10)
97C05005	1	13-NOV-1997 13:05	(1:10)
97C05006	1	13-NOV-1997 19:59	for all but AR1254 quant. from 11/15 curve
97C05007	1	13-NOV-1997 20:42	see dil for 1254 + 1260 ND (1:10)
ok CCV1660_1.0	1	13-NOV-1997 21:28	
97C05008	1	13-NOV-1997 22:11	see dil for 1254 1:10 + 1260 ND (can report all PCB from 1:1)
97C05009	1	13-NOV-1997 22:55	see dil for 1254 + 1260 ND (1:25)
97C05010	1	13-NOV-1997 23:39	1:100
97C05011	1	14-NOV-1997 00:22	1:25
97C05012	1	14-NOV-1997 01:07	1:25
97C05013	1	14-NOV-1997 01:51	1:250
97C05014	1	14-NOV-1997 02:34	all ~~but~~ AR1254 ND
~~all 1:100 for AR1254 AR1260~~ 97C05015 ~~for all PCBs~~	1	14-NOV-1997 03:18	~~No PCB~~ 1254
97C05016	NG 1	14-NOV-1997 04:02	old
97C05018	1	14-NOV-1997 04:46	see dil for AR1254 + 60 ND + 1248 ND (1:200)
OK CCV1660_1.0	1	14-NOV-1997 05:30	
97C05017	1	14-NOV-1997 06:13	see dil for 1248 ND + 1254 + 1260 ND (1:50)
97C05017MS	1	14-NOV-1997 06:57	
97C05017MSD	1	14-NOV-1997 07:41	
97C05019	1	14-NOV-1997 08:25	see dil for 1254 + 1260 ND (1:200)
AR1260 NG CCV1660_1.0	1	14-NOV-1997 09:08	
PRIME	1	15-NOV-1997 16:24	
CCV1660_1.0	1	15-NOV-1997 17:06	

1260 not flagged
∴ 1260 results were quant. from dilutions

0036

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DATA CHEM LABORATORIES
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FORM K
RUN LOG

Form RLIMS63-V1.0
11199712413044
Page 1

R97BL001

Run ID...........: R97BL001
Start Date.......: 15-NOV-1997 17:47

Method...........: 8080A

Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

Date Printed.....: 19-NOV-1997 12:41

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 1260ND	500	16-NOV-1997 01:51
97C05001 1254	10	16-NOV-1997 02:31
97C05002 1254	10	16-NOV-1997 03:11
97C05004 1260 ND	10	16-NOV-1997 03:51
97C05005 1260 ND	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	1260 ND 25	16-NOV-1997 09:14
97C05013	250	16-NOV-1997 09:54
97C05015 NG	100	16-NOV-1997 10:34
97C05016	100	16-NOV-1997 11:15
97C05018	ND 1260 200	16-NOV-1997 11:55
97C05017	ND 1260 50	16-NOV-1997 12:35
97C05017MS	50	16-NOV-1997 13:15
97C05017MSD	50	16-NOV-1997 13:56
97C05019	ND 1260 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

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

poor chromatogram for all PCBs.

1254, No PCB, No PCB, 1254, 1254, 1254, 1254, ok, 1254, NG, 1254, 1254, 1254, 1254
AR1260 / NG, 1 ok
"J" AR1260 for 12, 13, 16, 18, 17, 19

0054

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DATA CHEM
LABORATORIES, INC.
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2
PESTICIDES
SURROGATE RECOVERY

05-Dec-1997 15:47

Report Number: 97-00001

Client Name: Roy F. Weston Site: NA

Project: NA SDG No.: MMMNS1 DCL Set ID: 97C-0425-01

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	SSSSD1 00	2230 ~~3320*~~	105.	1
02	SSSSD2 01	76.3	86.8	0
03	SSSS1 02	66.8	101.	0
re-quant 04	SSSSS2 03	74 ~~76.9~~	88 ~~95.5~~	0
05	PPPSS2 04	76.9	91.3	0
06	PPPSS1 05	79.6	97.7	0
re-quant 07	PPPSD2 06	88 ~~91.3~~	107 ~~117.~~	0
08	PPPSD1 07	83.5	102.	0
09	QQQSS2 08	94.3	100.	0
10	QQQSD1 09	86.3	83.4	0
11	QQQSD2 10	98.8	108.	0
12	QQQSS1 11	123.	116.	0
13	RRRSS1 12	98.8	83.6	0
14	RRRSD1 13	2231 ~~3390*~~	106.	1
re-quant 15	RRRSD2 14	71 ~~73.3.~~	93 ~~101.~~	0
16	RRRSS2 15	83.2	93.5	0
1:100 17	MMMSED(S) 16	222 ~~51.3~~	72 ~~97.1~~	0
18	MMMNS1 17	66.1	101.	0
19	MMMSS2 18	56.8	98.3	0
20	MMMSD2 19	45.6	75.8	0
21	MMMNS1 17MS	50.7	95.4	0
22	MMMNS1 17MSD	43.5	92.6	0
23	BL-142006-1 ✓	112.	116.	0
24	QC-142006-1 ✓	112.	111.	0

QC LIMITS

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

* Values outside of contract required QC limits.

FORM II CHROM

CONC. VERIFICATION BY QUADRATIC MODEL

97C-0425

	TCMX				DBC		
	Y	CONC.	%R	DF	Y	CONC.	%R
BLANK	47809	0.05813	116	1	70010	0.056	112
QC-142006-1	45781	0.05559	111	1	69822	0.056	112
97C05000	43467	0.05271	105	1	975110	1.115	2230 *
97C05001	35972	0.04338	87	1	47919	0.038	76
97C05002	41800	0.05063	101	1	41986	0.033	67
~~97C05003~~	~~39498~~	~~0.04776~~	~~96~~	~~1~~	~~48276~~	~~0.038~~	~~77~~
97C05003 Re-quant	39498	0.04401	88	1	48276	0.037	74
97C05004	37788	0.04563	91	1	48341	0.038	77
97C05005	40359	0.04883	98	1	50000	0.040	80
~~97C05006~~	~~47933~~	~~0.05828~~	~~117~~	~~1~~	~~57311~~	~~0.046~~	~~91~~
97C05006 Re-quant	47933	0.05368	107	1	57311	0.044	88
97C05007	42219	0.05115	102	1	52443	0.042	84
97C05008	41329	0.05004	100	1	59138	0.047	94
97C05009	34613	0.04169	83	1	54148	0.043	86
97C05010	44330	0.05378	108	1	61917	0.049	99
97C05011	47650	0.05793	116	1	77076	0.062	123
97C05012	34727	0.04183	84	1	61919	0.049	99
97C05013	43695	0.05299	106	1	975294	1.116	2231 *
~~97C05014~~	~~41639~~	~~0.05043~~	~~101~~	~~1~~	~~46079~~	~~0.037~~	~~73~~
97C05014 Re-quant	41639	0.04646	93	1	46079	0.035	71
97C05015	38690	0.04676	94	1	52252	0.042	83
~~97C05016~~	~~40139~~	~~0.04856~~	~~97~~	~~1~~	~~32303~~	~~0.026~~	~~51~~
97C05018	40621	0.04916	98	1	35735	0.028	57
97C05017	41683	0.05048	101	1	41589	0.033	66
97C05017MS	39450	0.04770	95	1	31873	0.025	51
97C05017MSD	38331	0.04631	93	1	27377	0.022	44
97C05019	31584	0.03793	76	1	28710	0.023	46

for reporting purpose

97C05000	0	-0.00012	-124 * D	500	0	0.001	1112 * D
97C05001	5049	0.00542	108	10	5855	0.005	108
97C05002	5206	0.00559	112	10	4692	0.005	91
97C05004	4424	0.00473	95	10	6626	0.006	119
97C05005	4996	0.00536	107	10	7082	0.006	126
97C05007	5057	0.00543	109	10	7084	0.006	126
97C05008	5458	0.00587	117	10	7323	0.006	129
97C05009	2143	0.00223	111	25	3039	0.003	167 *
97C05010	454	0.00037	75	100	0	0.001	222 D
97C05011	2434	0.00254	127	25	5637	0.005	262 *
97C05012	1887	0.00194	97	25	4828	0.005	232 *
97C05013	0	-0.00012	-62 D	250	0	0.001	556 D
97C05015	495	0.00042	84	100	951	0.002	361 *
97C05016	443	0.00036	72	100	0	0.001	222 * — to be used for reporting purpose
97C05018	0	-0.00012	-50 D	200	0	0.001	445 D
97C05017	1324	0.00133	133	50	1145	0.002	195 *
97C05017MS	1096	0.00108	108	50	1123	0.002	193 *
97C05017MSD	1063	0.00104	104	50	897	0.002	177 *
97C05019	0	-0.00012	-50 D	200	0	0.001	445 D

CONC. VERIFICATION BY QUADRATIC MODEL FOR AR1254

F.V.= 10 mL
97C-0425

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

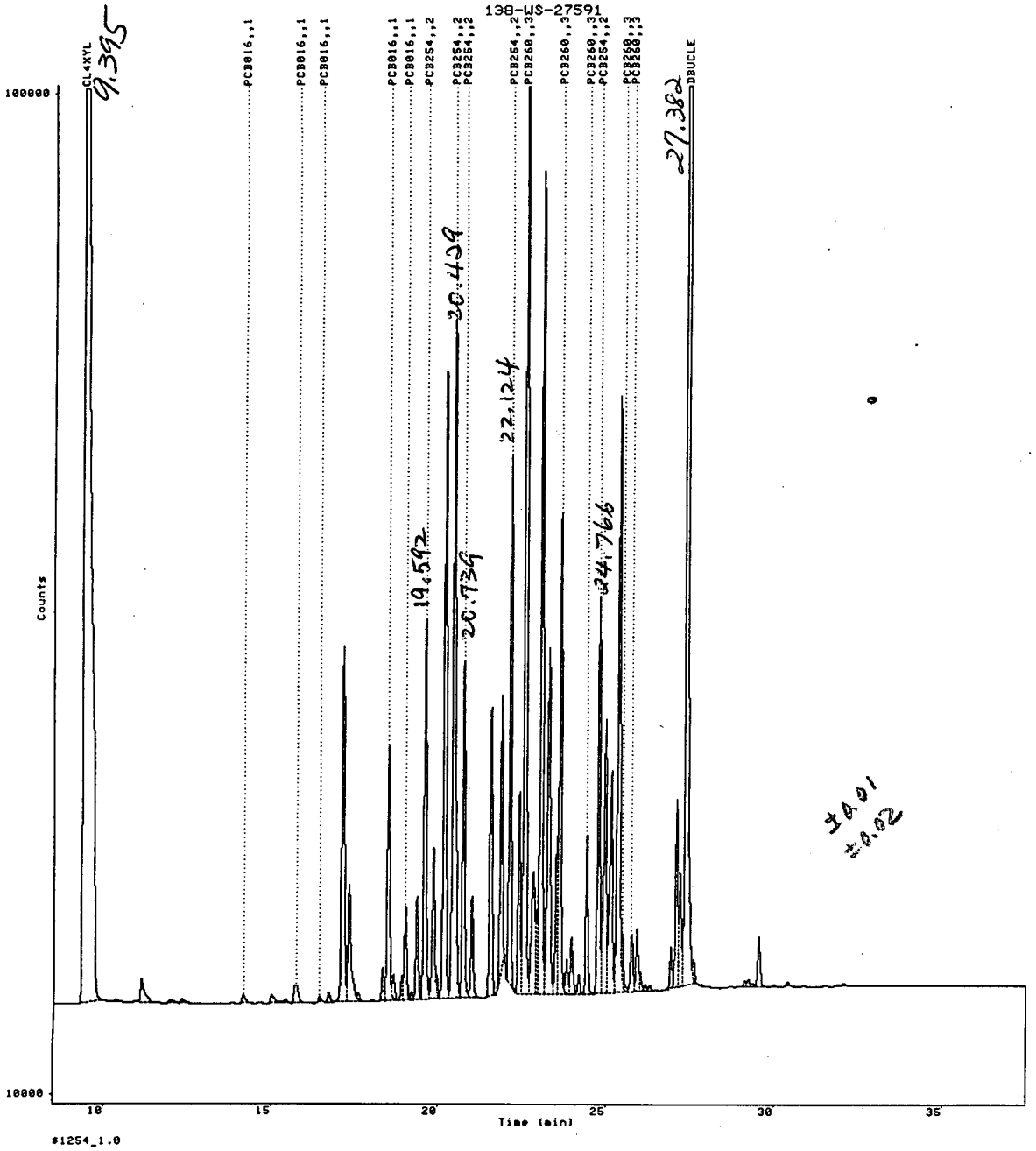
	AR1254-1		AR1254-2		AR1254-3		AR1254-4		AR1254-5		TOTAL			FINAL
	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	CONC. in extract	DF	%S	CONC ug/Kg
BLANK		-0.002		-0.003		-0.002		-0.001		-0.001	-0.008	1	100	-3
QC-142006-1		-0.002		-0.003		-0.002		-0.001		-0.001	-0.008	1	100	-3
97C05003 Re-quant	6522	0.031	11736	0.031	13961	0.082	9599	0.035	12191	0.062	0.242	1	72.3	111
97C05006 Re-quant	11167	0.056	36152	0.108	31090	0.203	25650	0.100	23729	0.125	0.592	1	72.2	273
97C05014 Re-quant	9017	0.045	25612	0.074	22194	0.137	17274	0.066	19632	0.102	0.423	1	71.3	198
97C05015 Re-quant														
97C05000	4585	0.022	14861	0.041	10316	0.059	10163	0.038	7469	0.037	0.195	500	54.1	60166
97C05001	4292	0.020	10969	0.029	6832	0.037	6731	0.024	6792	0.033	0.144	10	70.8	680
97C05002	3437	0.016	8367	0.021	5870	0.032	5408	0.019	4595	0.022	0.110	10	67.7	543
97C05004	7137	0.035	31204	0.092	21109	0.129	20289	0.078	15440	0.079	0.412	10	69	1992
97C05005	8257	0.041	36553	0.109	25697	0.162	25030	0.097	17003	0.088	0.497	10	70.5	2348
97C05007	13134	0.067	55708	0.176	43268	0.313	40018	0.163	23469	0.123	0.842	10	56	5011
97C05008	3904	0.018	13264	0.036	9759	0.055	8175	0.030	7944	0.039	0.178	10	69.8	852
97C05009	8081	0.040	26825	0.077	21995	0.135	17886	0.068	19656	0.102	0.423	25	60.4	5832
97C05010	4937	0.023	20050	0.056	14105	0.082	13033	0.049	10853	0.055	0.266	100	68.6	12906
97C05011	6949	0.034	35423	0.105	24711	0.155	23757	0.092	16932	0.087	0.473	25	71.8	5491
97C05012	5105	0.024	18219	0.051	15577	0.092	16446	0.062	10882	0.055	0.284	25	66.4	3565
97C05013	10159	0.051	35449	0.105	21176	0.130	23054	0.089	16098	0.083	0.458	250	56.1	67965
97C05015		-0.002		-0.003		-0.002		-0.001		-0.001	-0.008	100	65.3	-432
97C05016	9443	0.047	18387	0.051	12493	0.072	11049	0.041	7153	0.035	0.247	100	48.1	17095
97C05018	2749	0.012	10003	0.026	6488	0.035	5846	0.021	3752	0.018	0.113	200	59.8	12555
97C05017	11167	0.056	28022	0.081	19140	0.116	17161	0.065	12654	0.064	0.382	50	49.1	12981
97C05017MS	12111	0.061	30223	0.088	19848	0.120	18816	0.072	13971	0.071	0.413	50	49.1	14022
97C05017MSD	11351	0.057	29162	0.085	19105	0.115	18336	0.070	13485	0.069	0.396	50	49.1	13441
97C05019	4639	0.022	16566	0.046	10135	0.057	10637	0.039	5350	0.026	0.190	200	33.6	37794

F.V.= 10 mL
97C-0425

	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	%S	ug/Kg
BLANK		-0.001		0.000		-0.002		-0.002		-0.001	-0.007	1	100	-2
QC-142006-1	42075	0.088	23649	0.093	29625	0.097	63739	0.096	23821	0.094	0.468	1	100	156
97C05017		-0.001		0.000		-0.002		-0.002		-0.001	-0.007	1	49.1	-5
97C05017MS		-0.001		0.000		-0.002		-0.002		-0.001	-0.007	1	49.1	-5
97C05017MSD		-0.001		0.000		-0.002		-0.002		-0.001	-0.007	1	49.1	-5
97C05017	3449	0.007	3842	0.016	49821	0.183	30803	0.047	7282	0.029	0.282	50	49.1	9563
97C05017MS	4524	0.009	4555	0.018	54500	0.204	34044	0.053	8200	0.033	0.317	50	49.1	10766
97C05017MSD	4272	0.009	4183	0.017	51495	0.190	32698	0.050	7616	0.030	0.297	50	49.1	10074

Data file: DISK:[TAYLORC]8397316043.RAW;1
Report: 1197251525
Acquired: 15-NOV-1997 18:27:36
Time range: 8.50-37.50

1254 Curve



0243

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DATACHEM LABORATORIES GC-PESTICIDE ANALYSIS 11/19/97
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 Data 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	15-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

11/19/97 11/19/97 11/19/97 11/19/97 11/19/97 11/19/97

11/19/97 Date

Reviewed by: 11/19/97 Date

DATA CHEM
LABORATORIES, INC.

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.:**	MMMNS1
Analysis SOP No.:	OE-SW-8080	**DCL Account:**	3008
Matrix:	Soil	**DCL Set ID:**	97C-0425-01

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 97C05003, 97C05006 and 97C05014. Samples 97C05001, 97C05002, 97C05004, 97C05005, 97C05007 and 97C05008 were reanalyzed at a 1:10 dilutions. Samples 97C05009, 97C05011 and 97C05012 were reanalyzed at a 1:25 dilutions. Samples 97C05017, 97C05017MS and 97C05017MSD were reanalyzed at 1:50 dilutions. Samples 97C05010, 97C05015 and 97C05016 were reanalyzed at 1:100 dilutions. Samples 97C05018 and 97C05019 were reanalyzed at 1:200 dilutions. Sample 97C05013 was reanalyzed at a 1:250 dilution. Sample 97C05000 was reanalyzed at a 1:500 dilution. All samples were initially analyzed at full strength. All tetrachloro-m-xylene surrogate recoveries are reported from the undiluted analyses. All dibutylchlorendate surrogate recoveries are reported from the undiluted analyses with exception of samples 97C05000 and 97C05013.

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 97C05017. 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 1:50 dilutions to effectively quantitate the PCBs. Spike recoveries were diluted out for both the MS and MSD samples and recoveries were outside of method performance control limits. The relative percent difference (RPD) between the two spike recoveries were within the method performance control limits. Poor MS/MSD recoveries 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. All dibutylchorendate surrogate recoveries were within method performance control limits with exception of recoveries for samples 97C05000 and 97C05013. Therefore, since one of the two surrogates was within the method control limits for all samples, method acceptance criteria was met for all samples.

Instrument QC:

Initial Calibration: All calibration curves met method specification.

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

Continuing Calibration Verification: All PCB CCV recoveries were within. All surrogate continuing calibration verification standard recoveries were within ±15% with exception of tetrachloro-m-xylene in CCV#2 of the undiluted analyses (+23%) and dibutylchlorendate in CCV#3 of the undiluted analyses (-16%).

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~~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:

DCL Sample ID	RFW Sample ID	DCL Sample ID	RFW Sample ID
97C05000	SSSSD1	97C05010	QQQSD2
97C05001	SSSSD2	97C05011	QQQSS1
97C05002	SSSS1	97C05012	RRRSS1
97C05003	SSSSS2	97C05013	RRRSD1
97C05004	PPPSS2	97C05014	RRRSD2
97C05005	PPPSS1	97C05015	RRRSS2
97C05006	PPPSD2	97C05016	MMMSED(S)
97C05007	PPPSD1	97C05017	MMMNS1
97C05008	QQQSS2	97C05018	MMMSS2
97C05009	QQQSD1	97C05019	MMMSD2

Scott B. Saulls December 5, 1997

Scott B. Saulls, DCL Project Manager

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-0425	

	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 Analysis (97C-0425-01)				
Case Narrative	4	6	✓	___
Analytical Forms	7	78	✓	___
Sample Tracking Documentation	79	87	✓	___
Analytical Documentation	88	1678	✓	___
Raw Data	1689	512	✓	___
Percent Solids	513	521	✓	___
4. Shipping/Receiving Documents				
Airbill (No. of Shipments: 1)	522	522	✓	___
Sample Log-In Sheet	523	523	✓	___
DCL Cooler Receipt Checklist	524	524	✓	___

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)

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. 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 IGN	COR	REAC	OTHER
UUUNS1	11/5/97/1120	5	L	G	6										Total PCBs
UUUND1	11/5/97/1123														
UUUSS1	11/5/97/1025														
UUUND2	11/5/97/1130														
UUUNS2	11/5/97/1115														
UUUNS3	11/5/97/1120														
UUUSD2	11/5/97/1025														
SSSSD1	11/5/97/1055														
SSSSD2	11/5/97/1055														
SSSS1	11/5/97/1050														
SSSSS2	11/5/97/1055														

Comments: Extra sample volume given for MS/MSD for sample UUUNS1

Person Assuming Responsibility for Sample: M. Mahnkopf

Time: 1730 Date (MM/DD/YY): 11/5/97

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

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

Preservative:
1. HCl
2. HN03
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	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS KIN	COR	REAC	OTHER
PPPSS2	11/5/97/1200	5	L	G	6										Total PCB's
PPPSS1	11/5/97/1200														
PPPSD2	11/5/97/1202														
PPPSD1	11/5/97/1202														
QQQSS2	11/5/97/1120														
QQQSD1	11/5/97/1125														
QQQSD2	11/5/97/1125														
QQQSS1	11/5/97/1120														
RRRSS1	11/5/97/1105														
RRRSD1	11/5/97/1110														
RRRSD2	11/5/97/1110														

Comments:

Person Assuming Responsibility for Sample: M. Mahoney — Time: 1730 — Date (MM/DD/YY):

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Mahoney	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.

RFP 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

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 XRN	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	11/5/97/1525														
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. Mahfoo	1730	11/5/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Mahfoo	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.:**	MMMNS1
Analysis SOP No.:	OE-SW-8080	**DCL Account:**	3008
Matrix:	Soil	**DCL Set ID:**	97C-0425-01

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 97C05003, 97C05006 and 97C05014. Samples 97C05001, 97C05002, 97C05004, 97C05005, 97C05007 and 97C05008 were reanalyzed at a 1:10 dilutions. Samples 97C05009, 97C05011 and 97C05012 were reanalyzed at a 1:25 dilutions. Samples 97C05017, 97C05017MS and 97C05017MSD were reanalyzed at 1:50 dilutions. Samples 97C05010, 97C05015 and 97C05016 were reanalyzed at 1:100 dilutions. Samples 97C05018 and 97C05019 were reanalyzed at 1:200 dilutions. Sample 97C05013 was reanalyzed at a 1:250 dilution. Sample 97C05000 was reanalyzed at a 1:500 dilution. All samples were initially analyzed at full strength. All tetrachloro-m-xylene surrogate recoveries are reported from the undiluted analyses. All dibutylchlorendate surrogate recoveries are reported from the undiluted analyses with exception of samples 97C05000 and 97C05013.

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 97C05017. 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 1:50 dilutions to effectively quantitate the PCBs. Spike recoveries were diluted out for both the MS and MSD samples and recoveries were outside of method performance control limits. The relative percent difference (RPD) between the two spike recoveries were within the method performance control limits. Poor MS/MSD recoveries 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. All dibutylchorendate surrogate recoveries were within method performance control limits with exception of recoveries for samples 97C05000 and 97C05013. Therefore, since one of the two surrogates was within the method control limits for all samples, method acceptance criteria was met for all samples.

Instrument QC:

Initial Calibration: All calibration curves met method specification.

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

Continuing Calibration Verification: All PCB CCV recoveries were within. All surrogate continuing calibration verification standard recoveries were within ±15% with exception of tetrachloro-m-xylene in CCV#2 of the undiluted analyses (+23%) and dibutylchlorendate in CCV#3 of the undiluted analyses (-16%).

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
97C05000	SSSSD1	97C05010	QQQSD2
97C05001	SSSSD2	97C05011	QQQSS1
97C05002	SSSS1	97C05012	RRRSS1
97C05003	SSSSS2	97C05013	RRRSD1
97C05004	PPPSS2	97C05014	RRRSD2
97C05005	PPPSS1	97C05015	RRRSS2
97C05006	PPPSD2	97C05016	MMMSED(S)
97C05007	PPPSD1	97C05017	MMMNS1
97C05008	QQQSS2	97C05018	MMMSS2
97C05009	QQQSD1	97C05019	MMMSD2

Scott B. Saulls December 5, 1997

Scott B. Saulls, DCL Project Manager

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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

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Analytical Results

DATA CHEM LABORATORIES, INC.
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1
PESTICIDES
ANALYSIS DATA SHEET

Report Number: 97-00001

CLIENT SAMPLE NO.

SSSSD1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05000
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 45.9
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 13-Nov-1997 ~~01:51~~ 09:22
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	5.5	12.	5.5	UD
11104-28-2	Aroclor 1221	39.	62.	39.	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	4.3	12.	4.3	UD
11097-69-1	Aroclor 1254	2.8	12.	61000	D
11096-82-5	Aroclor 1260	x500 2.7	12.	500 x 2.7	UD

D = 1:500

0008

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SSSSD2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05001
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 29.2
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 13-Nov-1997 ~~02:31~~ 10:06
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	4.2	9.4	4.2	UD
11104-28-2	Aroclor 1221	30.	47.	30.	UD
11141-16-5	Aroclor 1232	5.2	9.4	5.2	UD
53469-21-9	Aroclor 1242	3.6	9.4	3.6	UD
12672-29-6	Aroclor 1248	3.2	9.4	3.2	UD
11097-69-1	Aroclor 1254	22 ~~2.2~~	94 9.4	680	DN
11096-82-5	Aroclor 1260	21 ~~2.1~~	↓ 9.4	21 ~~2.1~~	UD

D = 1:10

0009

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SSSS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05002
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 32.3
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 13 ~~16~~-Nov-1997 ~~03:11~~ 1051
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 1 ~~10.0~~
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	5.4	9.9	5.4	UD
53469-21-9	Aroclor 1242	3.7	9.9	3.7	UD
12672-29-6	Aroclor 1248	3.4	9.9	3.4	UD
11097-69-1	Aroclor 1254	23 ~~2.3~~	99 ~~9.9~~	550	D N
11096-82-5	Aroclor 1260	22 ~~2.2~~	↓ ~~9.9~~	22 ~~2.2~~	UD

D=1:10

0010

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SSSSS2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05003
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 27.7
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 13-Nov-1997 11:36
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	4.1	9.2	4.1	U
11104-28-2	Aroclor 1221	29.	46.	29.	U
11141-16-5	Aroclor 1232	5.1	9.2	5.1	U
53469-21-9	Aroclor 1242	3.5	9.2	3.5	U
12672-29-6	Aroclor 1248	3.2	9.2	3.2	U
11097-69-1	Aroclor 1254	2.1	9.2	110 ~~2.1~~	~~U~~
11096-82-5	Aroclor 1260	2.0	9.2	2.0 ~~150~~	U

0011

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PPPSS2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05004
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 31.0
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 13-Nov-1997 ~~03:51~~ 12:20
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	4.3	9.7	4.3	UD
11104-28-2	Aroclor 1221	30.	48.	30.	UD
11141-16-5	Aroclor 1232	5.3	9.7	5.3	UD
53469-21-9	Aroclor 1242	3.7	9.7	3.7	UD
12672-29-6	Aroclor 1248	3.3	9.7	3.3	UD
11097-69-1	Aroclor 1254	22 ~~2.2~~	97 ~~9.7~~	2000	D N
11096-82-5	Aroclor 1260	21 ~~2.1~~	↓ ~~9.7~~	21 ~~2.1~~	UD

D = 1:10

0012

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PPPSS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05005
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 29.5
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 13-Nov-1997 ~~04:32~~ 13:05
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	4.2	9.5	4.2	UD
11104-28-2	Aroclor 1221	30.	47.	30.	UD
11141-16-5	Aroclor 1232	5.2	9.5	5.2	UD
53469-21-9	Aroclor 1242	3.6	9.5	3.6	UD
12672-29-6	Aroclor 1248	3.3	9.5	3.3	UD
11097-69-1	Aroclor 1254	22 ~~2.2~~	95 9.5	2400	D N
11096-82-5	Aroclor 1260	21 ~~2.1~~	↓ 9.5	21 ~~2.1~~	UD

D = 1:10

0013

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PPPSD2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05006
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 27.8
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 13-Nov-1997 ~~20:42~~ 19:59
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	4.1	9.2	4.1	U
11104-28-2	Aroclor 1221	29.	46.	29.	U
11141-16-5	Aroclor 1232	5.1	9.2	5.1	U
53469-21-9	Aroclor 1242	3.5	9.2	3.5	U
12672-29-6	Aroclor 1248	3.2	9.2	3.2	U
11097-69-1	Aroclor 1254	2.1	9.2	280	N
11096-82-5	Aroclor 1260	2.0	9.2	2.0	U

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DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PPPSD1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05007
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 44.0
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 13-Nov-1997 ~~05:12~~ 20:42
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	5.3	12.	5.3	UD
11104-28-2	Aroclor 1221	37.	59.	37.	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	4.1	12.	4.1	UD
11097-69-1	Aroclor 1254	28 ~~2.8~~	120 ~~12.~~	5000	D N
11096-82-5	Aroclor 1260	26 ~~2.6~~	↓ ~~12.~~	26 ~~2.6~~	UD

D=1:10

0015

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

QQQSS2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05008
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 30.2
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 13-Nov-1997 ~~05:52~~ 22:11
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	4.2	9.6	4.2	UD
11104-28-2	Aroclor 1221	30.	48.	30.	UD
11141-16-5	Aroclor 1232	5.3	9.6	5.3	UD
53469-21-9	Aroclor 1242	3.6	9.6	3.6	UD
12672-29-6	Aroclor 1248	3.3	9.6	3.3	UD
11097-69-1	Aroclor 1254	22 ~~2.2~~	96 ~~9.6~~	850	D N
11096-82-5	Aroclor 1260	2.1	9.6	2.1	UD

D=1:10

0016

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

QQQSD1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05009
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 39.6
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 13-Nov-1997 ~~06:33~~ 22:55
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~25.0~~ 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	3.8	11.	3.8	UD
11097-69-1	Aroclor 1254	~~2.5~~	~~11.~~ x25	5800	D N
11096-82-5	Aroclor 1260	x 25 ~~2.4~~	~~11.~~	160 ~~2.4~~	UD

D=1:25

0017

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

QQQSD2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05010
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 31.4
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 13-Nov-1997 ~~07:13~~ 23:39
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	4.3	9.7	4.3	UD
11104-28-2	Aroclor 1221	30.	49.	30.	UD
11141-16-5	Aroclor 1232	5.4	9.7	5.4	UD
53469-21-9	Aroclor 1242	3.7	9.7	3.7	UD
12672-29-6	Aroclor 1248	3.4	9.7	3.4	UD
11097-69-1	Aroclor 1254	220 ~~2.2~~	970 ~~9.7~~	13000	D N
11096-82-5	Aroclor 1260	210 ~~2.1~~	↓ ~~9.7~~	210 ~~2.1~~	UD

D= 1:100

0018

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

QQQSS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05011
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 28.2
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 14-Nov-1997 ~~07:53~~ 00:22
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~25.0~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.1	9.3	4.1	UD
11104-28-2	Aroclor 1221	29.	46.	29.	UD
11141-16-5	Aroclor 1232	5.1	9.3	5.1	UD
53469-21-9	Aroclor 1242	3.5	9.3	3.5	UD
12672-29-6	Aroclor 1248	3.2	9.3	3.2	UD
11097-69-1	Aroclor 1254	x25 2.1	x25 9.3	5400	DN
11096-82-5	Aroclor 1260	2.0	9.3	50 ~~2.0~~	UD

D=1:25

0019

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RRRSS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05012
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 33.6
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 14-Nov-1997 ~~09:14~~ 01:07
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~25.0~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.4	10.	4.4	UD
11104-28-2	Aroclor 1221	31.	50.	31.	UD
11141-16-5	Aroclor 1232	5.5	10.	5.5	UD
53469-21-9	Aroclor 1242	3.8	10.	3.8	UD
12672-29-6	Aroclor 1248	3.5	10.	3.5	UD
11097-69-1	Aroclor 1254	2.3	250 ~~10.~~	3600	D
11096-82-5	Aroclor 1260	~~2.8~~ 2.2	~~10.~~	55 ~~2.2~~	UD J

D= 1:25

0020

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RRRSD1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05013
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 43.9
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 14-Nov-1997 ~~09:54~~ 01:51
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~250.~~ 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	37.	59.	37.	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	4.1	12.	4.1	UD
11097-69-1	Aroclor 1254	2.7	12.	68000	D N
11096-82-5	Aroclor 1260 X250	2.6 x250	12.	650 ~~2.6~~	UD T

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0021

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RRRSD2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05014
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 28.7
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 14-Nov-1997 02:34
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	4.1	9.4	4.1	U
11104-28-2	Aroclor 1221	29.	47.	29.	U
11141-16-5	Aroclor 1232	5.2	9.4	5.2	U
53469-21-9	Aroclor 1242	3.5	9.4	3.5	U
12672-29-6	Aroclor 1248	3.2	9.4	3.2	U
11097-69-1	Aroclor 1254	2.2	9.4	200 ~~2.2~~	~~U~~ N
11096-82-5	Aroclor 1260	2.1	9.4	2.1 ~~210~~	U

0022

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RRRSS2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05015
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 34.7
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 14-Nov-1997 ~~10:34~~ 03:18
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 ~~450~~	10 ~~1000~~	4.5 ~~450~~	UD
11104-28-2	Aroclor 1221	32 ~~3200~~	51 ~~5100~~	3.2 ~~3200~~	UD
11141-16-5	Aroclor 1232	5.6 ~~560~~	10 ~~1000~~	5.6 ~~560~~	UD
53469-21-9	Aroclor 1242	3.9 ~~390~~	1 ~~1000~~	3.9 ~~390~~	UD
12672-29-6	Aroclor 1248	3.5 ~~350~~	✓ ~~1000~~	3.5 ~~350~~	UD
11097-69-1	Aroclor 1254	240	1000	890 ~~89000~~	D ✓ J
11096-82-5	Aroclor 1260	230	1000	230	UD

D = 1:100

0023

FORM I CHROM

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MMMSED(S)

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05016
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 51.9
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 11:15
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 100.
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	43.	69.	43.	UD
11141-16-5	Aroclor 1232	7.7	14.	7.7	UD
53469-21-9	Aroclor 1242	x100 5.3	x100 14.	5.3	UD
12672-29-6	Aroclor 1248	4.8	14.	4.8	UD
11097-69-1	Aroclor 1254	3.2	14.	17000	~~D~~ N
11096-82-5	Aroclor 1260	3.1	14.	310 ~~3.1~~	UD

J

0024

FORM I CHROM

12/10/97

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MMMNS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05017
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 50.9
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 14-Nov-1997 ~~12:35~~ 06:13
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	6.0	14.	6.0	UD
11104-28-2	Aroclor 1221	43.	68.	43.	UD
11141-16-5	Aroclor 1232	7.5	14.	7.5	UD
53469-21-9	Aroclor 1242	5.2	14.	5.2	UD
12672-29-6	Aroclor 1248	4.7	14.	240 ~~4.7~~	UD
11097-69-1	Aroclor 1254	3.1	14.	13000	D
11096-82-5	Aroclor 1260	3.0	14.	150 ~~3.0~~	UD

D=1:50

0025

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MMMSS2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05018
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 40.2
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: ~~16~~ 14-Nov-1997 ~~11:55~~ 04:46
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	4.9	11.	4.9	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	4.2	11.	4.2	UD
12672-29-6	Aroclor 1248	3.8	11.	760 ~~3.8~~	UD
11097-69-1	Aroclor 1254	x200 2.6	x200 11.	13000	D N
11096-82-5	Aroclor 1260	2.5	11.	500 ~~2.5~~	UD J

D=1:200

0026

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MMMSD2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05019
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 64.1
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 14:36
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	8.2	19.	8.2	UD
11104-28-2	Aroclor 1221	58.	93.	58.	UD
11141-16-5	Aroclor 1232	10.	19.	10.	UD
53469-21-9	Aroclor 1242	7.0	19.	7.0	UD
12672-29-6	Aroclor 1248	6.4	19.	6.4	UD
11097-69-1	Aroclor 1254	4.3	19.	38000 ~~36000~~	D N
11096-82-5	Aroclor 1260	x 200 4.1	x200 19.	4.1	UD

D=1:200

0027

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MMMNS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05017MS
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 50.9
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 13:15
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	6.0	14.	2000	D
11096-82-5	Aroclor 1260	3.0	14.	5290	D

0028

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MMMNS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: 97C05017MSD
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 50.9
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 13:56
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	6.0	14.	1860	D
11096-82-5	Aroclor 1260	3.0	14.	4950	D

0029

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BL-142006-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: BL-142006-1
Sample wt/vol: 0.030 Kg
Reporting Basis: As Received
% Moisture:
Decanted:
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 12-Nov-1997 22:04
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-142006-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: QC-142006-1
Sample wt/vol: 0.030 Kg
Reporting Basis: As Received
% Moisture:
Decanted:
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 10-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 12-Nov-1997 22:47
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	157.	
11096-82-5	Aroclor 1260	1.47	6.67	156.	

FORM I CHROM

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

2
PESTICIDES
SURROGATE RECOVERY

Report Number: 97-00001

Client Name: Roy F. Weston Site: NA

Project: NA SDG No.: MMMNS1 DCL Set ID: 97C-0425-01

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	SSSSD1	2230 ~~3320~~ *	105.	1
02	SSSSD2	76.3	86.8	0
03	SSSS1	66.8	101.	0
04	SSSSS2	74 ~~76.9~~	88 ~~95.5~~	0
05	PPPSS2	76.9	91.3	0
06	PPPSS1	79.6	97.7	0
07	PPPSD2	88 ~~91.3~~	107 ~~117.~~	0
08	PPPSD1	83.5	102.	0
09	QQQSS2	94.3	100.	0
10	QQQSD1	86.3	83.4	0
11	QQQSD2	98.8	108.	0
12	QQQSS1	123.	116.	0
13	RRRSS1	98.8	83.6	0
14	RRRSD1	2231 ~~3390~~ *	106.	1
15	RRRSD2	71 ~~73.3~~	93 ~~101.~~	0
16	RRRSS2 1:100	222* ~~83.2~~	72 ~~93.5~~	0
17	MMMSED(S)	51.3	97.1	0
18	MMMNS1	66.1	101.	0
19	MMMSS2	56.8	98.3	0
20	MMMSD2	45.6	75.8	0
21	MMMNS1	50.7	95.4	0
22	MMMNS1	43.5	92.6	0
23	BL-142006-1	112.	116.	0
24	QC-142006-1	112.	111.	0

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

Client Name: Roy F. Weston Site: NA

Project: NA SDG No.: MMMNS1 DCL Set ID: 97C-0425-01

Matrix: SOIL Analysis Method: 8080A

Matrix Spike - Client Sample No. MMMNS1 DCL Sample No.: 97C05017MS

MS Concentration Units: ug/Kg

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	REC QC LIMITS
Aroclor 1016	167.	0 ~~4100~~	2000	1198 ~~216.~~ *	44.0-140.
Aroclor 1260	167.	0 ~~11000~~	5290	3168 ~~355.~~ *	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.	1860	1114 ~~132.~~ *	7.27	15.8	44.0-140.
Aroclor 1260	167.	4950	0 ~~151.~~ *	6.64	45.9	48.1-146.

2964

* Values outside of contract required QC limits.

RPD: 0 out of 2 outside limits.
Spike Recovery: 3 out of 4 outside limits.

FORM III CHROM-1

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

3-2
PESTICIDES
LCS and LCSD RECOVERY

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
Analysis Method: 8080A
DCL Sample No.: QC-142006-1

LCS Concentration Units: ug/Kg

COMPOUND	TARGET CONCENTRATION	LCS CONCENTRATION	LCS % REC	REC QC LIMITS
Aroclor 1016	167.	157.	93.9	53.1-140.
Aroclor 1260	167.	156.	93.6	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: 97-00001

SAMPLE NO.
BL-142006-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMNS1
DCL Set ID: 97C-0425-01
Matrix: SOIL
DCL Sample ID: BL-142006-1
Analysis Method: 8080A
Extraction Method: 3550C
Sulfur Cleanup: Y
Date Extracted: 10-Nov-1997 00:00
Column (1): DB-17
ID: .25mm
Date Analyzed (1): 12-Nov-1997 22:04
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	SSSSD1	97C05000	16-Nov-1997 01:51
02	SSSSD2	97C05001	16-Nov-1997 02:31
03	SSSS1	97C05002	16-Nov-1997 03:11
04	SSSSS2	97C05003	13-Nov-1997 11:36
05	PPPSS2	97C05004	16-Nov-1997 03:51
06	PPPSS1	97C05005	16-Nov-1997 04:32
07	PPPSD2	97C05006	13-Nov-1997 20:42
08	PPPSD1	97C05007	16-Nov-1997 05:12
09	QQQSS2	97C05008	16-Nov-1997 05:52
10	QQQSD1	97C05009	16-Nov-1997 06:33
11	QQQSD2	97C05010	16-Nov-1997 07:13
12	QQQSS1	97C05011	16-Nov-1997 07:53
13	RRRSS1	97C05012	16-Nov-1997 09:14
14	RRRSD1	97C05013	16-Nov-1997 09:54
15	RRRSD2	97C05014	14-Nov-1997 02:34
16	RRRSS2	97C05015	16-Nov-1997 10:34
17	MMMSED(S)	97C05016	16-Nov-1997 11:15
18	MMMNS1	97C05017	16-Nov-1997 12:35
19	MMMSS2	97C05018	16-Nov-1997 11:55
20	MMMSD2	97C05019	16-Nov-1997 14:36
21	MMMNS1	97C05017MS	16-Nov-1997 13:15
22	MMMNS1	97C05017MSD	16-Nov-1997 13:56
23	QC-142006-1	QC-142006-1	12-Nov-1997 22:47

FORM IV CHROM

DATA CHEM LABORATORIES
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FORM K
RUN LOG

Form RLIMS63-V1.0
11199711555244
Page 1

R97BL000

Run ID.....: R97BL000
Start Date.....: 12-NOV-1997 13:20

Method.....: 8082

Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

Date Printed.....: 19-NOV-1997 11:55

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

Sample Name	Dilution	Date Acquired
PRIME	1	12-NOV-1997 13:20
PCB221_2.0	1	12-NOV-1997 14:04
PCB232_2.0	1	12-NOV-1997 14:47
PCB242_2.0	1	12-NOV-1997 15:31
PCB248_2.0	1	12-NOV-1997 16:15
PCB254_2.0	1	12-NOV-1997 16:58
$1660_2.0	1	12-NOV-1997 17:42
$1660_1.0	1	12-NOV-1997 18:25
$1660_.20	1	12-NOV-1997 19:09
$1660_.10	1	12-NOV-1997 19:53
$1660_.02	1	12-NOV-1997 20:36
ICV_1660_1.0	1	12-NOV-1997 21:20
BL-142006-1	1	12-NOV-1997 22:04
QC-142006-1	1	12-NOV-1997 22:47
97C05000	1	13-NOV-1997 09:22
97C05001	1	13-NOV-1997 10:06
97C05002	1	13-NOV-1997 10:51
97C05003	1	13-NOV-1997 11:36
97C05004	1	13-NOV-1997 12:20
97C05005	1	13-NOV-1997 13:05
97C05006	1	13-NOV-1997 19:59
97C05007	1	13-NOV-1997 20:42
CCV1660_1.0	1	13-NOV-1997 21:28
97C05008	1	13-NOV-1997 22:11
97C05009	1	13-NOV-1997 22:55
97C05010	1	13-NOV-1997 23:39
97C05011	1	14-NOV-1997 00:22
97C05012	1	14-NOV-1997 01:07
97C05013	1	14-NOV-1997 01:51
97C05014	1	14-NOV-1997 02:34
97C05015	1	14-NOV-1997 03:18
97C05016	1	14-NOV-1997 04:02
97C05018	1	14-NOV-1997 04:46
CCV1660_1.0	1	14-NOV-1997 05:30
97C05017	1	14-NOV-1997 06:13
97C05017MS	1	14-NOV-1997 06:57
97C05017MSD	1	14-NOV-1997 07:41
97C05019	1	14-NOV-1997 08:25
CCV1660_1.0	1	14-NOV-1997 09:08
PRIME	1	15-NOV-1997 16:24
CCV1660_1.0	1	15-NOV-1997 17:06

0036

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FORM L
INITIAL CALIBRATION

Form RLIMS63-V1.0
11199711555244
Page 2

C97BL000

Compound.....: **Dibutylchlorendate**
Method.....: **8082**

Date Printed.....: 19-NOV-1997 11:55

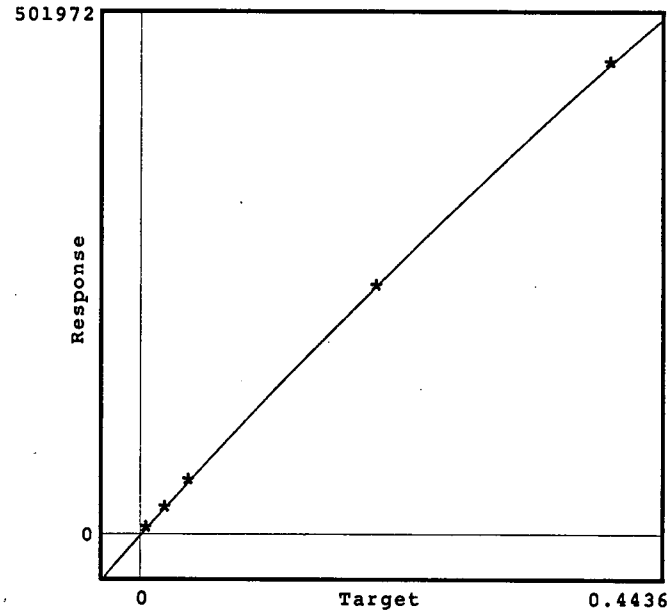
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9999400
Formula.....:
$-360423.0*X^2 + 1276520.*X + -233.0540$

RT Mean.....: 27.378
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	27.38	0.00400000	4908	4867.280	-0.83	12-NOV-1997 20:36
$1660_.10	27.38	0.0200000	24502	25153.30	2.66	12-NOV-1997 19:53
$1660_.20	27.38	0.0400000	51297	50251.30	-2.04	12-NOV-1997 19:09
$1660_1.0	27.38	0.200000	240027	240655.0	0.26	12-NOV-1997 18:25
$1660_2.0	27.38	0.400000	452943	452709.0	-0.05	12-NOV-1997 17:42

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FORM L
INITIAL CALIBRATION

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Page 3

C97BL000

Compound.....: PCB 1016
Method.....: 8082

Date Printed.....: 19-NOV-1997 11:55

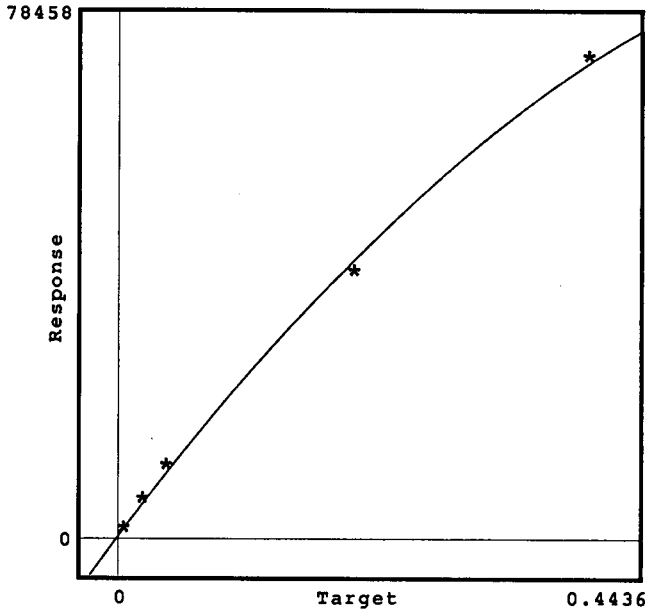
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9974090
Formula.....:
$-151730.0*X^2 + 236225.0*X + 624.7080$

RT Mean.....: 14.184
RT Std Deviation.: 0.0017

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	14.19	0.00400000	1361	1567.180	15.15	12-NOV-1997 20:36
$1660_.10	14.19	0.0200000	5813	5288.530	-9.02	12-NOV-1997 19:53
$1660_.20	14.19	0.0400000	10887	9830.970	-9.70	12-NOV-1997 19:09
$1660_1.0	14.18	0.200000	39960	41800.60	4.61	12-NOV-1997 18:25
$1660_2.0	14.18	0.400000	71578	70838.20	-1.03	12-NOV-1997 17:42

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FORM L
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C97BL000

Compound.....: **PCB 1016**
Method.....: **8082**

Date Printed.....: 19-NOV-1997 11:55

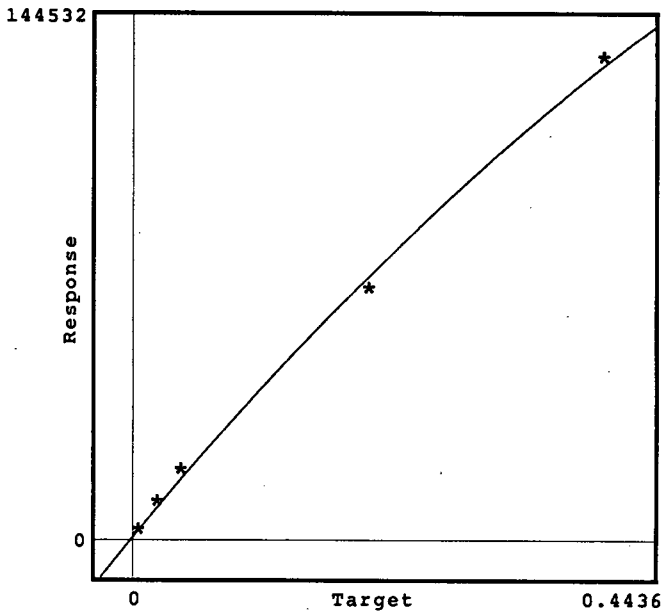
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9964840
Formula.....:
$-176381.0*X^2 + 393911.0*X + 1134.340$

RT Mean.....: 15.774
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	15.77	0.00400000	2297	2707.160	17.86	12-NOV-1997 20:36
$1660_.10	15.77	0.0200000	9968	8942.020	-10.29	12-NOV-1997 19:53
$1660_.20	15.77	0.0400000	18839	16608.60	-11.84	12-NOV-1997 19:09
$1660_1.0	15.78	0.200000	69056	72861.40	5.51	12-NOV-1997 18:25
$1660_2.0	15.77	0.400000	132110	130478.0	-1.24	12-NOV-1997 17:42

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FORM L
INITIAL CALIBRATION

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C97BL000

Compound.....: **PCB 1016**
Method.....: **8082**

Date Printed.....: 19-NOV-1997 11:55

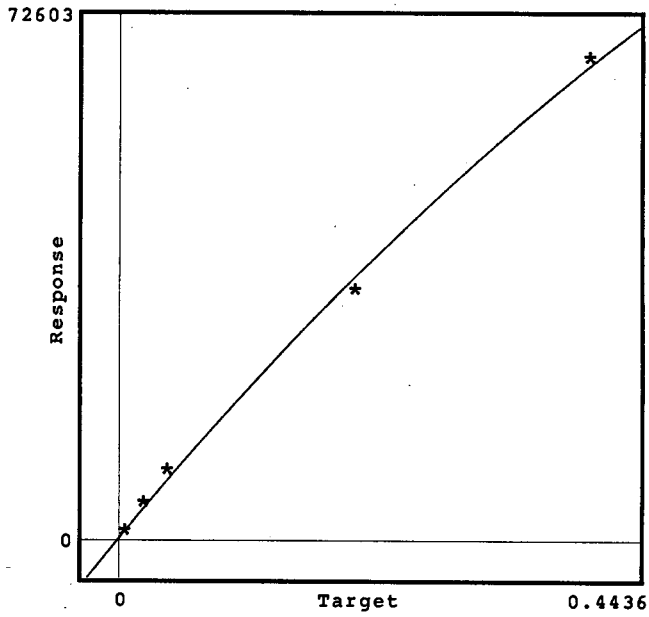
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9962380
Formula.....:
$-87824.80*X^2 + 197724.0*X + 498.4060$

RT Mean.....: 16.462
RT Std Deviation.: 0.000444

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	16.46	0.00400000	1087	1287.890	18.48	12-NOV-1997 20:36
$1660_.10	16.46	0.0200000	4933	4417.760	-10.44	12-NOV-1997 19:53
$1660_.20	16.46	0.0400000	9448	8266.860	-12.50	12-NOV-1997 19:09
$1660_1.0	16.46	0.200000	34543	36530.30	5.75	12-NOV-1997 18:25
$1660_2.0	16.46	0.400000	66392	65536.20	-1.29	12-NOV-1997 17:42

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FORM L
INITIAL CALIBRATION

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C97BL000

Compound.....: PCB 1016
Method.....: 8082

Date Printed.....: 19-NOV-1997 11:55

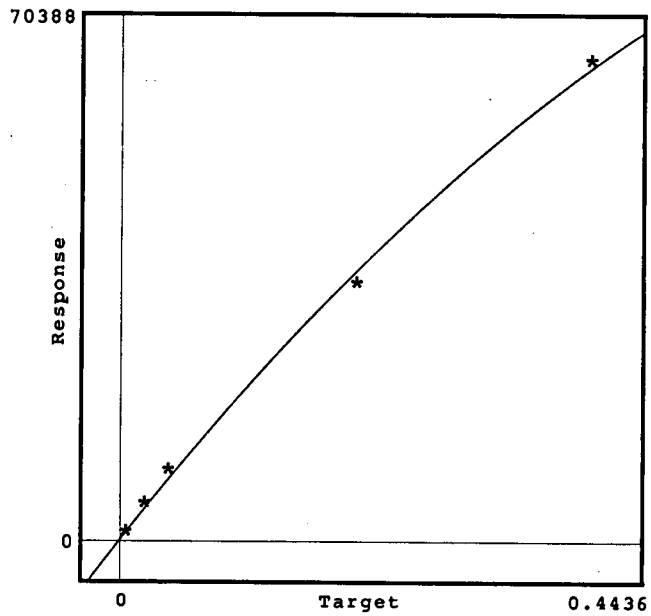
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9968850
Formula.....:
$-111199.0*X^2 + 202160.0*X + 466.4310$

RT Mean.....: 18.499
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	18.50	0.00400000	1091	1273.290	16.71	12-NOV-1997 20:36
$1660_.10	18.50	0.0200000	4936	4465.160	-9.54	12-NOV-1997 19:53
$1660_.20	18.50	0.0400000	9430	8374.940	-11.19	12-NOV-1997 19:09
$1660_1.0	18.50	0.200000	34656	36450.60	5.18	12-NOV-1997 18:25
$1660_2.0	18.50	0.400000	64285	63538.90	-1.16	12-NOV-1997 17:42

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FORM L
INITIAL CALIBRATION

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C97BL000

Compound.....: PCB 1016
Method.....: 8082

Date Printed.....: 19-NOV-1997 11:55

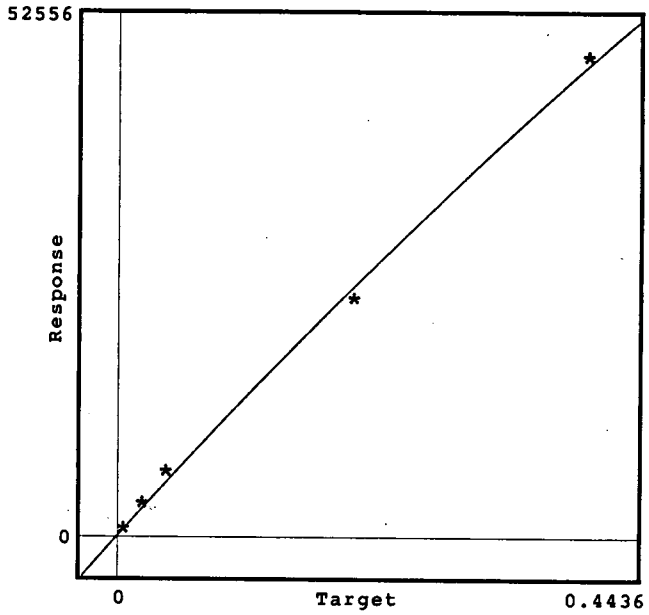
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9962660
Formula.....:
$-36649.90*X^2 + 132495.0*X + 295.1750$

RT Mean.....: 19.019
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	19.02	0.00400000	699	824.5720	17.96	12-NOV-1997 20:36
$1660_.10	19.02	0.0200000	3215	2930.430	-8.85	12-NOV-1997 19:53
$1660_.20	19.02	0.0400000	6415	5536.370	-13.70	12-NOV-1997 19:09
$1660_1.0	19.02	0.200000	23917	25328.30	5.90	12-NOV-1997 18:25
$1660_2.0	19.02	0.400000	48063	47429.50	-1.32	12-NOV-1997 17:42

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FORM L
INITIAL CALIBRATION

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C97BL000

Compound.....: PCB 1260 -1
Method.....: 8082

Date Printed.....: 19-NOV-1997 11:55

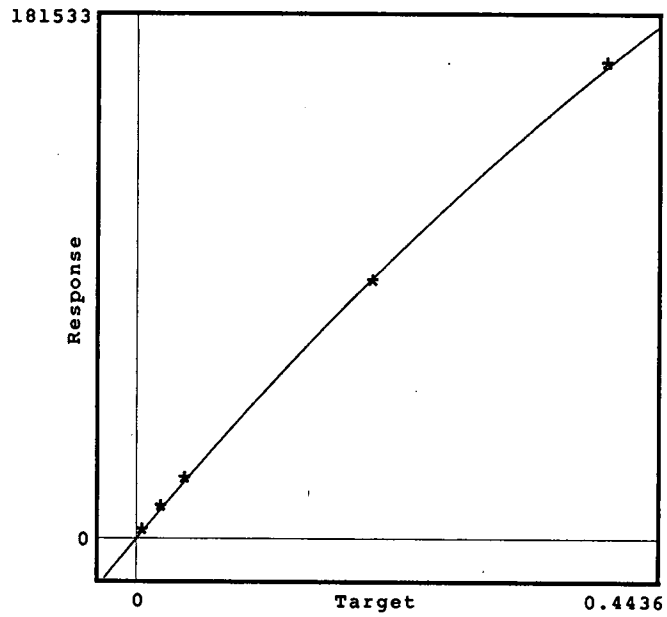
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9997210
Formula.....:
$-209604.0*X^2 + 492185.0*X + 445.1670$

RT Mean.....: 25.492
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	25.49	0.00400000	2279	2410.550	5.77	12-NOV-1997 20:36
$1660_.10	25.49	0.0200000	10634	10205.00	-4.03	12-NOV-1997 19:53
$1660_.20	25.49	0.0400000	20407	19797.20	-2.99	12-NOV-1997 19:09
$1660_1.0	25.49	0.200000	89061	90498.00	1.61	12-NOV-1997 18:25
$1660_2.0	25.49	0.400000	164381	163782.0	-0.36	12-NOV-1997 17:42

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DATA CHEM LABORATORIES
A Sorenson Company

FORM L
INITIAL CALIBRATION

C97BL000

Compound.....: PCB 1260 -2
Method.....: 8082

Date Printed.....: 19-NOV-1997 11:55

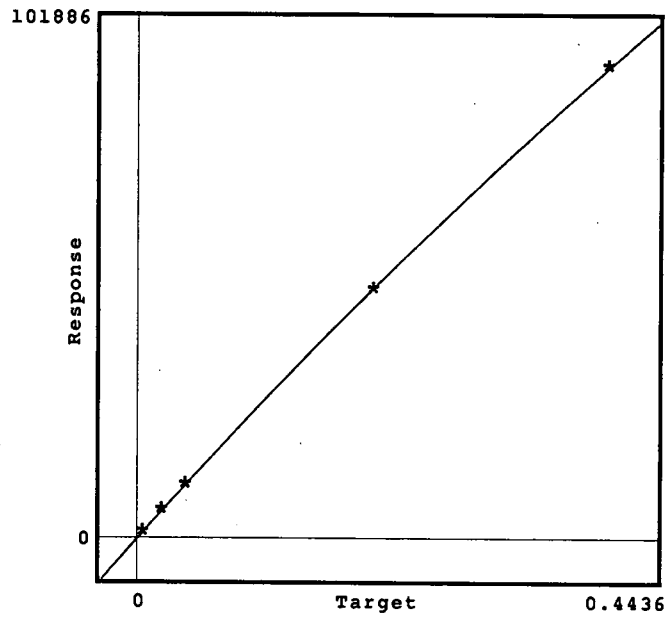
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9999630
Formula.....:
$-73069.10*X^2 + 258724.0*X + 103.6420$

RT Mean.....: 25.751
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	25.75	0.00400000	1111	1137.370	2.37	12-NOV-1997 20:36
$1660_.10	25.75	0.0200000	5373	5248.890	-2.31	12-NOV-1997 19:53
$1660_.20	25.75	0.0400000	10383	10335.70	-0.46	12-NOV-1997 19:09
$1660_1.0	25.75	0.200000	48678	48925.70	0.51	12-NOV-1997 18:25
$1660_2.0	25.75	0.400000	92010	91902.20	-0.12	12-NOV-1997 17:42

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A Sorenson Company

FORM L
INITIAL CALIBRATION

C97BL000

Compound.....: PCB 1260 -3
Method.....: 8082

Date Printed.....: 19-NOV-1997 11:55

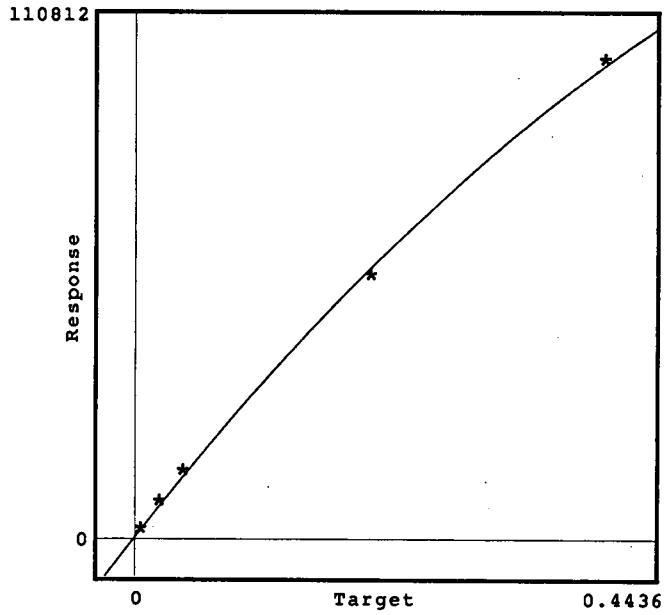
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9986420
Formula.....:
$-170808.0*X^2 + 316757.0*X + 646.4640$

RT Mean.....: 22.534
RT Std Deviation.: 0.004151

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	22.54	0.00400000	1710	1910.760	11.74	12-NOV-1997 20:36
$1660_.10	22.53	0.0200000	7483	6913.280	-7.61	12-NOV-1997 19:53
$1660_.20	22.53	0.0400000	13992	13043.40	-6.78	12-NOV-1997 19:09
$1660_1.0	22.53	0.200000	55274	57165.50	3.42	12-NOV-1997 18:25
$1660_2.0	22.53	0.400000	100796	100020.0	-0.77	12-NOV-1997 17:42

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FORM L
INITIAL CALIBRATION

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Page 11

C97BL000

Compound.....: PCB 1260 -4
Method.....: 8082

Date Printed.....: 19-NOV-1997 11:55

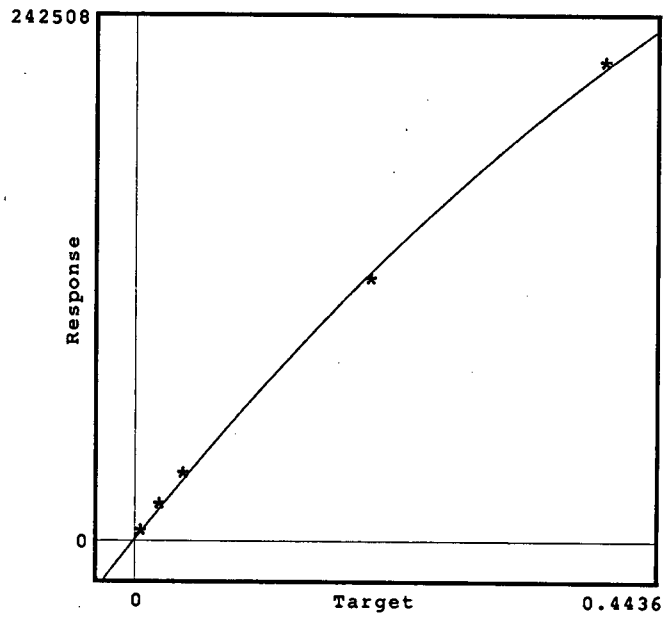
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9987740
Formula.....:
$-350843.0*X^2 + 683817.0*X + 1503.460$

RT Mean.....: 23.610
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	23.61	0.00400000	3816	4233.120	10.93	12-NOV-1997 20:36
$1660_.10	23.61	0.0200000	16126	15039.40	-6.74	12-NOV-1997 19:53
$1660_.20	23.61	0.0400000	30336	28294.80	-6.73	12-NOV-1997 19:09
$1660_1.0	23.61	0.200000	120300	124233.0	3.27	12-NOV-1997 18:25
$1660_2.0	23.61	0.400000	220515	218895.0	-0.73	12-NOV-1997 17:42

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DATA CHEM LABORATORIES
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FORM L
INITIAL CALIBRATION

C97BL000

Compound.....: PCB 1260-5
Method.....: 8082

Date Printed.....: 19-NOV-1997 11:55

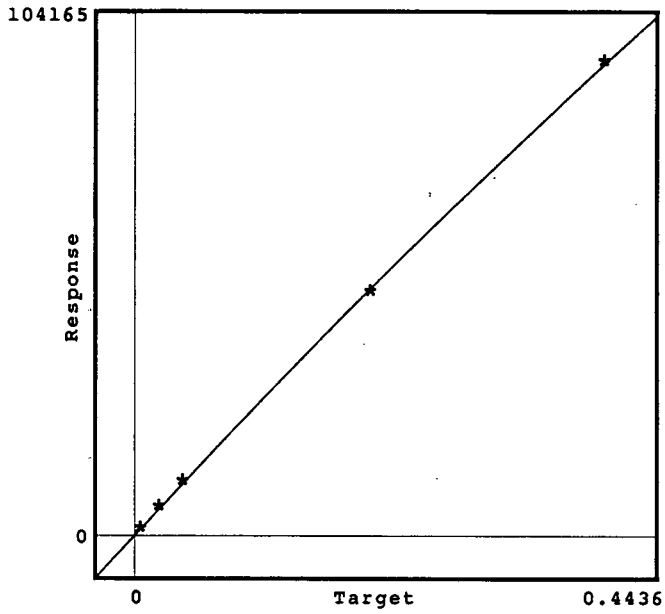
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9997560
Formula.....:
$-50206.20*X^2 + 254314.0*X + 278.0390$

RT Mean.....: 24.423
RT Std Deviation.: 0.004121

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	24.42	0.00400000	1227	1294.490	5.50	12-NOV-1997 20:36
$1660_.10	24.42	0.0200000	5554	5344.240	-3.78	12-NOV-1997 19:53
$1660_.20	24.42	0.0400000	10683	10370.20	-2.93	12-NOV-1997 19:09
$1660_1.0	24.42	0.200000	48381	49132.60	1.55	12-NOV-1997 18:25
$1660_2.0	24.42	0.400000	94301	93970.70	-0.35	12-NOV-1997 17:42

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FORM L
INITIAL CALIBRATION

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C97BL000

Compound.....: **Tetrachloro-m-xylene**
Method.....: **8082**

Date Printed.....: 19-NOV-1997 11:55

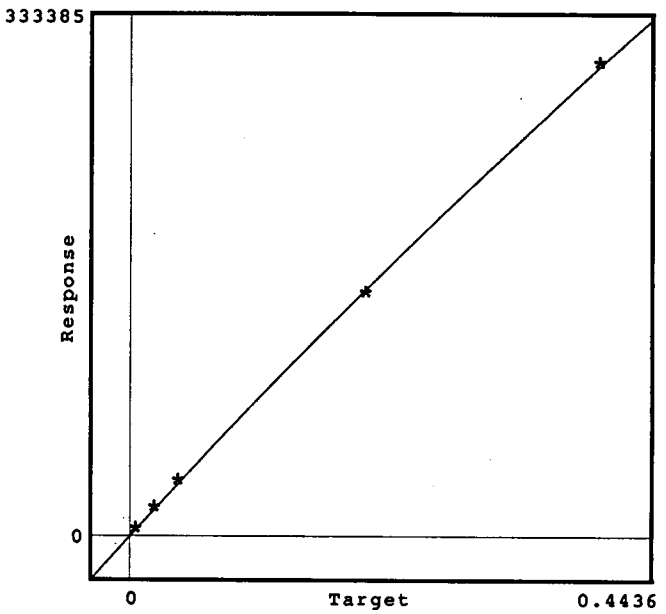
Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9996900
Formula.....:
$-175469.0*X^2 + 820239.0*X + 723.0080$

RT Mean.....: 9.396
RT Std Deviation.: 0.001884

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	9.40	0.00400000	3806	4001.160	5.13	12-NOV-1997 20:36
$1660_.10	9.40	0.0200000	17433	17057.60	-2.15	12-NOV-1997 19:53
$1660_.20	9.40	0.0400000	34765	33251.80	-4.35	12-NOV-1997 19:09
$1660_1.0	9.39	0.200000	155004	157752.0	1.77	12-NOV-1997 18:25
$1660_2.0	9.39	0.400000	301936	300743.0	-0.39	12-NOV-1997 17:42

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INITIAL CALIBRATION VERIFICATION

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R97BL000

Sample Name.....: ICV_1660_1.0
Acquisition Date.: 12-NOV-1997 21:20

Method.....: 8082

Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 11:55

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

Run ID.....: R97BL000
Run Start Date...: 12-NOV-1997 13:20

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.39	9.34	9.44		0.200000	0.212739	6	25	
PCB 1016	14.18	14.13	14.23		0.200000	0.201742	1	25	
PCB 1016	15.77	15.72	15.82		0.200000	0.203013	2	25	
PCB 1016	16.46	16.41	16.51		0.200000	0.204728	2	25	
PCB 1016	18.50	18.45	18.55		0.200000	0.198779	-1	25	
PCB 1016	19.02	18.97	19.07		0.200000	0.187461	-6	25	
PCB 1260	22.53	22.48	22.58		0.200000	0.219905	10	25	
PCB 1260	23.61	23.56	23.66		0.200000	0.220632	10	25	
PCB 1260	24.42	24.37	24.47		0.200000	0.225293	13	25	
PCB 1260	25.49	25.44	25.54		0.200000	0.222020	11	25	
PCB 1260	25.75	25.70	25.80		0.200000	0.228163	14	25	
Dibutylchlorendate	27.38	27.33	27.43		0.200000	0.222733	11	25	

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FORM N2
CONTINUING CALIBRATION VERIFICATION

R97BL000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 13-NOV-1997 21:28

Method.....: 8082

Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 11:55

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

Run ID.....: R97BL000
Run Start Date...: 12-NOV-1997 13:20

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.40	9.34	9.44		0.200000	0.207272	4	15	
PCB 1016	14.19	14.13	14.23		0.200000	0.200332	0	15	
PCB 1016	15.78	15.72	15.82		0.200000	0.201342	1	15	
PCB 1016	16.47	16.41	16.51		0.200000	0.206380	3	15	
PCB 1016	18.50	18.45	18.55		0.200000	0.196220	-2	15	
PCB 1016	19.02	18.97	19.07		0.200000	0.197419	-1	15	
PCB 1260	22.54	22.48	22.58		0.200000	0.197021	-1	15	
PCB 1260	23.61	23.56	23.66		0.200000	0.198648	-1	15	
PCB 1260	24.43	24.37	24.47		0.200000	0.200283	0	15	
PCB 1260	25.49	25.44	25.54		0.200000	0.191053	-4	15	
PCB 1260	25.75	25.70	25.80		0.200000	0.196028	-2	15	
Dibutylchlorendate	27.38	27.33	27.43		0.200000	0.203394	2	15	

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FORM N2
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R97BL000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 14-NOV-1997 05:30

Method.....: 8082

Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 11:55

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

Run ID.....: R97BL000
Run Start Date...: 12-NOV-1997 13:20

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.40	9.34	9.44		0.200000	0.245831	23	15	*
PCB 1016	14.19	14.13	14.23		0.200000	0.220463	10	15	
PCB 1016	15.78	15.72	15.82		0.200000	0.215997	8	15	
PCB 1016	16.46	16.41	16.51		0.200000	0.219403	10	15	
PCB 1016	18.50	18.45	18.55		0.200000	0.208097	4	15	
PCB 1016	19.03	18.97	19.07		0.200000	0.206110	3	15	
PCB 1260	22.54	22.48	22.58		0.200000	0.204889	2	15	
PCB 1260	23.62	23.56	23.66		0.200000	0.198611	-1	15	
PCB 1260	24.43	24.37	24.47		0.200000	0.196337	-2	15	
PCB 1260	25.50	25.44	25.54		0.200000	0.186949	-7	15	
PCB 1260	25.76	25.70	25.80		0.200000	0.186633	-7	15	
Dibutylchlorendate	27.38	27.33	27.43		0.200000	0.201588	1	15	

* Failed acceptance criteria.

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FORM N2
CONTINUING CALIBRATION VERIFICATION

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R97BL000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 14-NOV-1997 09:08

Method.....: 8082

Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 11:55

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

Run ID.....: R97BL000
Run Start Date...: 12-NOV-1997 13:20

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.40	9.34	9.44		0.200000	0.221264	11	15	
PCB 1016	14.19	14.13	14.23		0.200000	0.198699	-1	15	
PCB 1016	15.78	15.72	15.82		0.200000	0.196988	-2	15	
PCB 1016	16.47	16.41	16.51		0.200000	0.199660	0	15	
PCB 1016	18.50	18.45	18.55		0.200000	0.183409	-8	15	
PCB 1016	19.03	18.97	19.07		0.200000	0.178643	-11	15	
PCB 1260	22.54	22.48	22.58		0.200000	0.177624	-11	15	
PCB 1260	23.62	23.56	23.66		0.200000	0.167317	-16	15	*
PCB 1260	24.43	24.37	24.47		0.200000	0.167904	-16	15	*
PCB 1260	25.50	25.44	25.54		0.200000	0.158064	-21	15	*
PCB 1260	25.76	25.70	25.80		0.200000	0.160268	-20	15	*
Dibutylchlorendate	27.38	27.33	27.43		0.200000	0.167020	-16	15	*

* Failed acceptance criteria.

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FORM N2
CONTINUING CALIBRATION VERIFICATION

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R97BL000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 15-NOV-1997 17:06

Method.....: 8082

Init Calib ID....: C97BL000
Init Calib Date..: 12-NOV-1997 17:42

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 11:55

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

Run ID.....: R97BL000
Run Start Date...: 12-NOV-1997 13:20

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.39	9.34	9.44		0.200000	0.195027	-2	15	
PCB 1016	14.18	14.13	14.23		0.200000	0.183555	-8	15	
PCB 1016	15.77	15.72	15.82		0.200000	0.180643	-10	15	
PCB 1016	16.46	16.41	16.51		0.200000	0.177059	-11	15	
PCB 1016	18.50	18.45	18.55		0.200000	0.170681	-15	15	
PCB 1016	19.02	18.97	19.07		0.200000	0.161779	-19	15	*
PCB 1260	22.53	22.48	22.58		0.200000	0.156137	-22	15	*
PCB 1260	23.61	23.56	23.66		0.200000	0.148611	-26	15	*
PCB 1260	24.42	24.37	24.47		0.200000	0.154604	-23	15	*
PCB 1260	25.49	25.44	25.54		0.200000	0.154370	-23	15	*
PCB 1260	25.75	25.70	25.80		0.200000	0.153394	-23	15	*
Dibutylchlorendate	27.37	27.33	27.43		0.200000	0.164438	-18	15	*

* Failed acceptance criteria.

WNFR

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FORM K
RUN LOG

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11199712413044
Page 1

R97BL001

Run ID.....: R97BL001
Start Date.....: 15-NOV-1997 17:47

Method.....: 8080A

Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

Date Printed.....: 19-NOV-1997 12:41

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

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

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FORM L
INITIAL CALIBRATION

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Page 2

C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

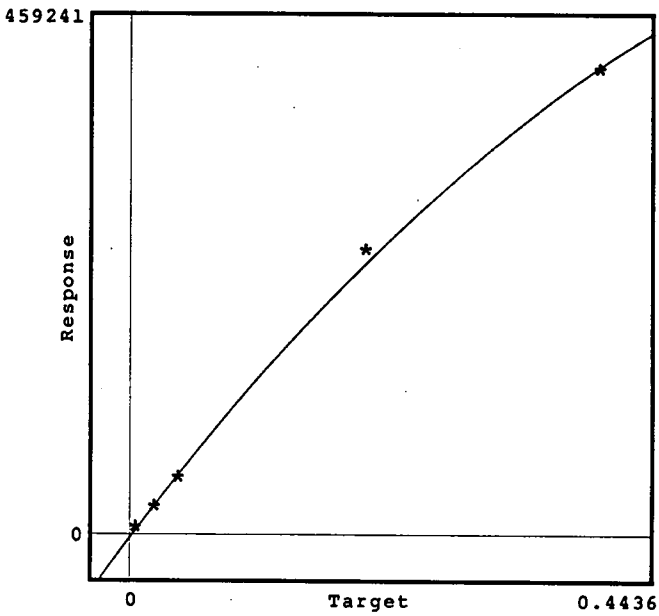
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9981370
Formula.....:
$-837213.0*X^2 + 1374010.*X + -1527.380$

RT Mean.....: 27.373
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	27.37	0.00400000	4678	3955.260	-15.45	16-NOV-1997 00:30
$1660_.10	27.37	0.0200000	23148	25617.90	10.67	15-NOV-1997 23:50
$1660_.20	27.37	0.0400000	48169	52093.50	8.15	15-NOV-1997 23:09
$1660_1.0	27.37	0.200000	250688	239786.0	-4.35	15-NOV-1997 22:29
$1660_2.0	27.37	0.400000	410102	414123.0	0.98	15-NOV-1997 21:49

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FORM L
INITIAL CALIBRATION

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C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

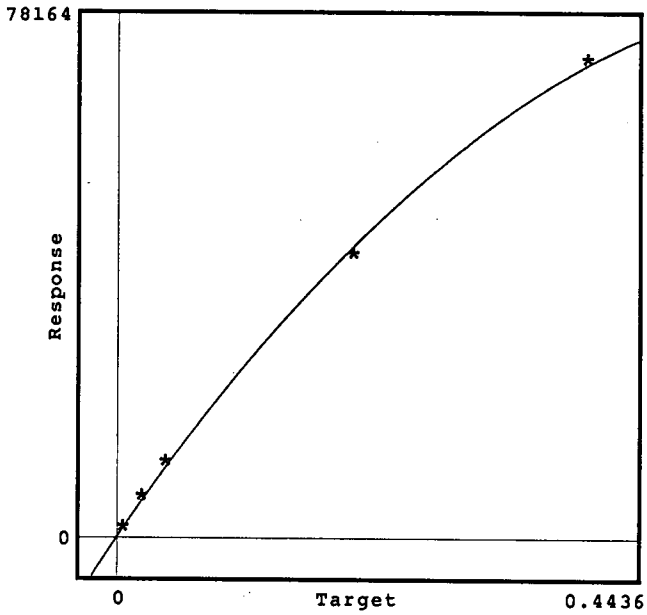
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9987370
Formula.....:
$-200512.0*X^2 + 255446.0*X + 469.0690$

RT Mean.....: 14.180
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	14.18	0.00400000	1340	1487.640	11.02	16-NOV-1997 00:30
$1660_.10	14.18	0.0200000	5932	5497.790	-7.32	15-NOV-1997 23:50
$1660_.20	14.18	0.0400000	11046	10366.10	-6.16	15-NOV-1997 23:09
$1660_1.0	14.18	0.200000	42200	43537.80	3.17	15-NOV-1997 22:29
$1660_2.0	14.18	0.400000	71073	70565.70	-0.71	15-NOV-1997 21:49

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FORM L
INITIAL CALIBRATION

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C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

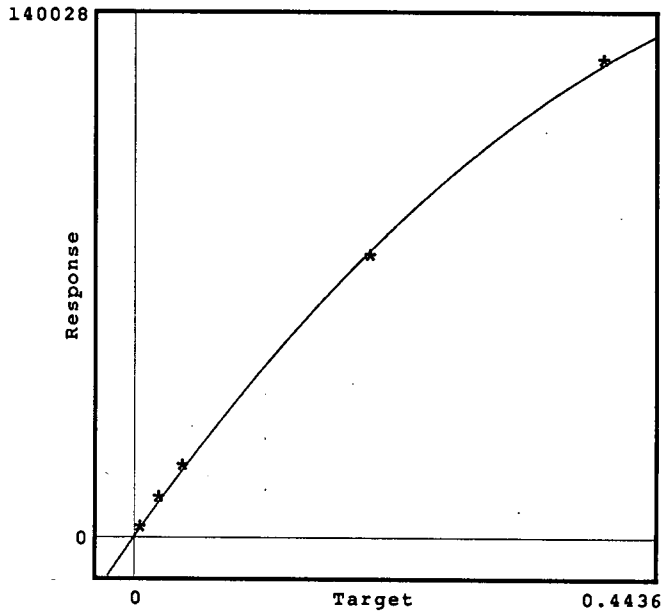
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9993280
Formula.....:
$-317916.0*X^2 + 441323.0*X + 736.5650$

RT Mean.....: 15.773
RT Std Deviation.: 0.001259

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	15.77	0.00400000	2302	2496.770	8.46	16-NOV-1997 00:30
$1660_.10	15.77	0.0200000	10056	9435.860	-6.17	15-NOV-1997 23:50
$1660_.20	15.77	0.0400000	18641	17880.80	-4.08	15-NOV-1997 23:09
$1660_1.0	15.77	0.200000	74566	76284.50	2.30	15-NOV-1997 22:29
$1660_2.0	15.77	0.400000	127061	126399.0	-0.52	15-NOV-1997 21:49

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FORM L
INITIAL CALIBRATION

C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

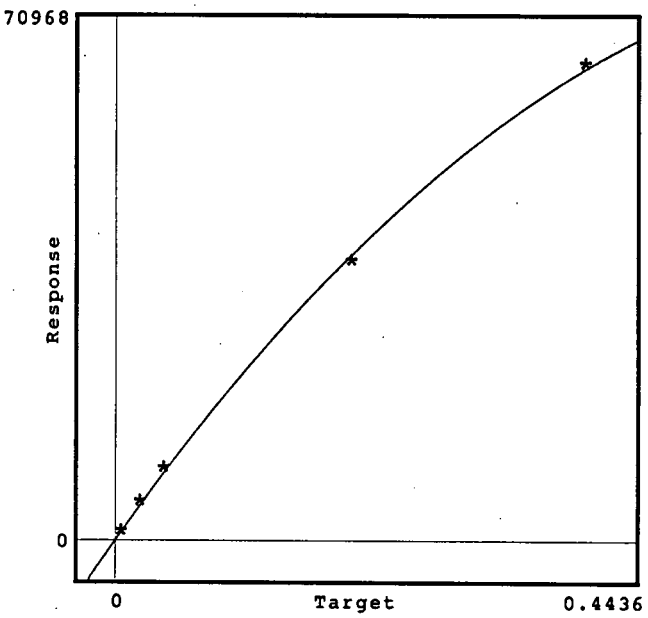
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9991890
Formula.....:
$-163415.0*X^2 + 224749.0*X + 300.7160$

RT Mean.....: 16.460
RT Std Deviation.: 0.003293

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	16.46	0.00400000	1097	1197.100	9.12	16-NOV-1997 00:30
$1660_.10	16.46	0.0200000	5042	4730.340	-6.18	15-NOV-1997 23:50
$1660_.20	16.46	0.0400000	9500	9029.230	-4.96	15-NOV-1997 23:09
$1660_1.0	16.46	0.200000	37734	38713.90	2.60	15-NOV-1997 22:29
$1660_2.0	16.46	0.400000	64431	64053.90	-0.59	15-NOV-1997 21:49

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FORM L
INITIAL CALIBRATION

C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

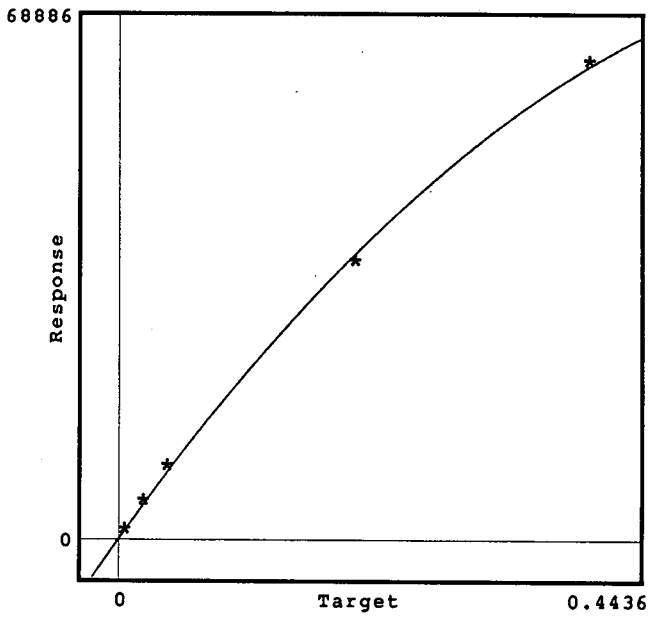
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9988810
Formula.....:
$-155369.0*X^2 + 216759.0*X + 334.1260$

RT Mean.....: 18.495
RT Std Deviation.: 0.00201

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	18.50	0.00400000	1091	1198.680	9.87	16-NOV-1997 00:30
$1660_.10	18.50	0.0200000	4876	4607.170	-5.51	15-NOV-1997 23:50
$1660_.20	18.50	0.0400000	9390	8755.920	-6.75	15-NOV-1997 23:09
$1660_1.0	18.50	0.200000	36349	37471.30	3.09	15-NOV-1997 22:29
$1660_2.0	18.49	0.400000	62612	62179.00	-0.69	15-NOV-1997 21:49

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FORM L
INITIAL CALIBRATION

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C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

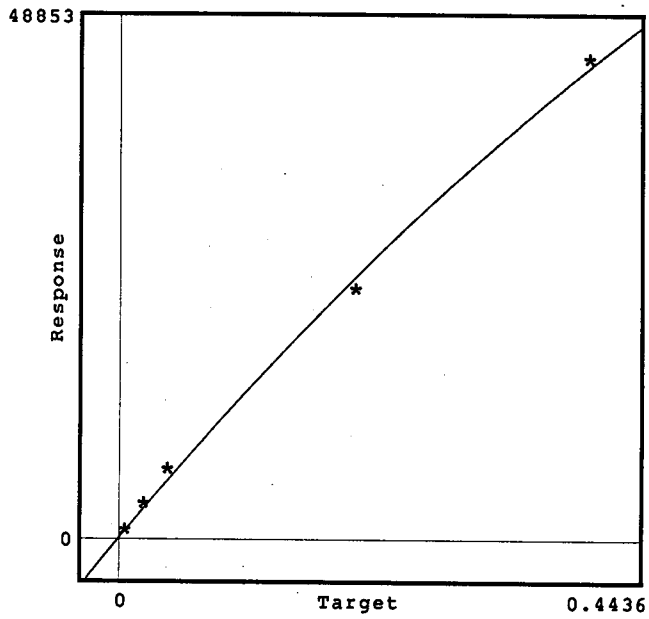
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9965220
Formula.....:
$-54349.70*X^2 + 131277.0*X + 276.4870$

RT Mean.....: 19.016
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	19.02	0.00400000	688	800.7260	16.38	16-NOV-1997 00:30
$1660_.10	19.02	0.0200000	3106	2880.280	-7.27	15-NOV-1997 23:50
$1660_.20	19.02	0.0400000	6286	5440.600	-13.45	15-NOV-1997 23:09
$1660_1.0	19.02	0.200000	23072	24357.90	5.57	15-NOV-1997 22:29
$1660_2.0	19.02	0.400000	44646	44091.30	-1.24	15-NOV-1997 21:49

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C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

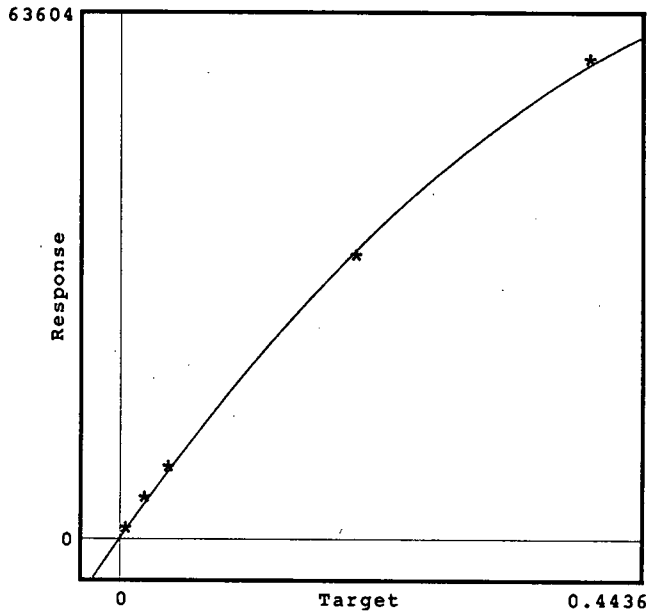
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9990770
Formula.....:
$-147702.0*X^2 + 201825.0*X + 314.0050$

RT Mean.....: 19.581
RT Std Deviation.: 0.00057

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1254_.02	19.58	0.00400000	1014	1118.940	10.35	15-NOV-1997 20:28
$1254_0.10	19.58	0.0200000	4712	4291.440	-8.93	15-NOV-1997 19:48
$1254_0.20	19.58	0.0400000	8433	8150.710	-3.35	15-NOV-1997 19:07
$1254_1.0	19.58	0.200000	33926	34771.10	2.49	15-NOV-1997 18:27
$1254_2.0	19.58	0.400000	57740	57412.00	-0.57	15-NOV-1997 17:47

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FORM L
INITIAL CALIBRATION

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C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

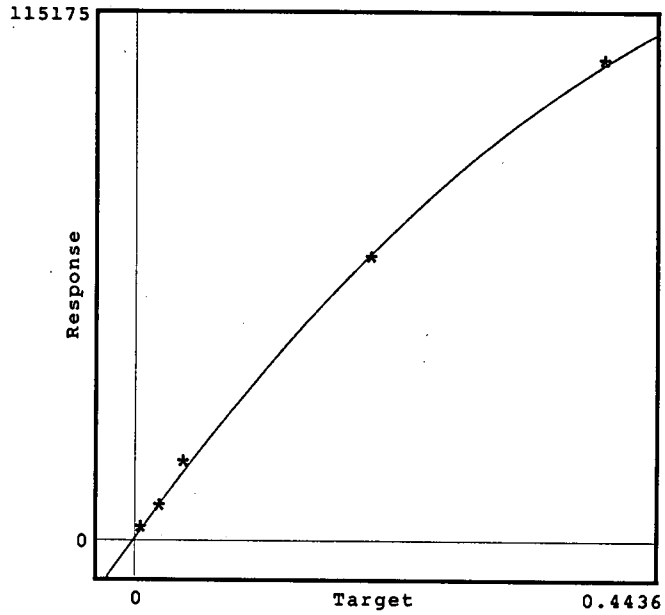
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9977780
Formula.....:
$-237780.0*X^2 + 352812.0*X + 910.7160$

RT Mean.....: 20.428
RT Std Deviation.: 0.004935

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1254_.02	20.43	0.00400000	2381	2318.160	-2.64	15-NOV-1997 20:28
$1254_0.10	20.44	0.0200000	7000	7871.860	12.46	15-NOV-1997 19:48
$1254_0.20	20.43	0.0400000	16496	14642.70	-11.23	15-NOV-1997 19:07
$1254_1.0	20.42	0.200000	60877	61962.00	1.78	15-NOV-1997 18:27
$1254_2.0	20.42	0.400000	104371	103991.0	-0.36	15-NOV-1997 17:47

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C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

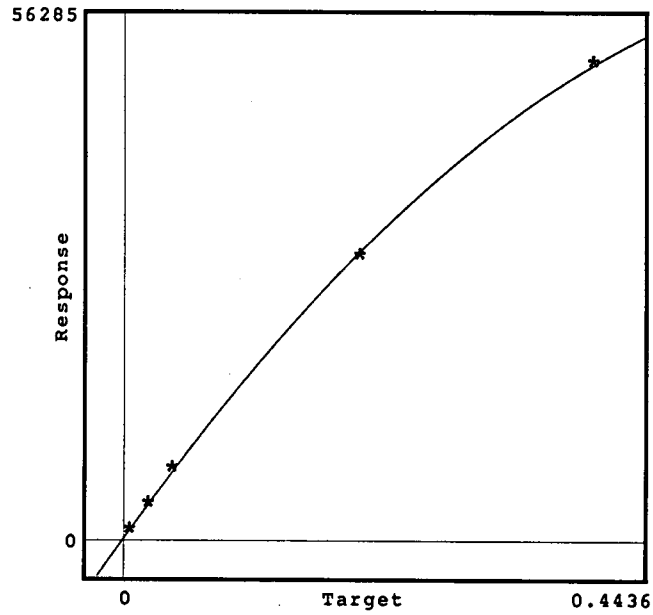
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9996380
Formula.....:
$-126649.0*X^2 + 176711.0*X + 395.6870$

RT Mean.....: 20.731
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1254_.02	20.73	0.00400000	1067	1100.500	3.14	15-NOV-1997 20:28
$1254_0.10	20.73	0.0200000	3857	3879.250	0.58	15-NOV-1997 19:48
$1254_0.20	20.73	0.0400000	7637	7261.500	-4.92	15-NOV-1997 19:07
$1254_1.0	20.73	0.200000	30208	30672.00	1.54	15-NOV-1997 18:27
$1254_2.0	20.73	0.400000	50988	50816.30	-0.34	15-NOV-1997 17:47

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C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

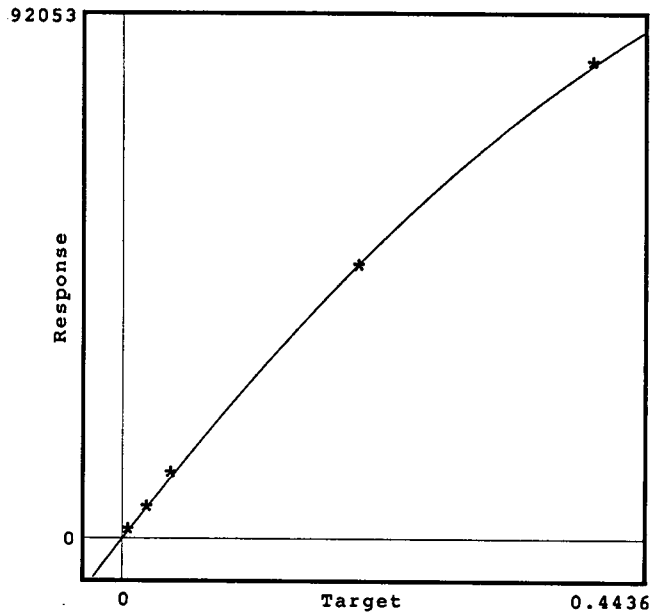
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9995300
Formula.....:
$-156613.0*X^2 + 269693.0*X + 242.2490$

RT Mean.....: 22.116
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1254_.02	22.12	0.00400000	1324	1318.510	-0.41	15-NOV-1997 20:28
$1254_0.10	22.12	0.0200000	5292	5573.470	5.32	15-NOV-1997 19:48
$1254_0.20	22.12	0.0400000	11438	10779.40	-5.76	15-NOV-1997 19:07
$1254_1.0	22.12	0.200000	47405	47916.30	1.08	15-NOV-1997 18:27
$1254_2.0	22.11	0.400000	83249	83061.40	-0.23	15-NOV-1997 17:47

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C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

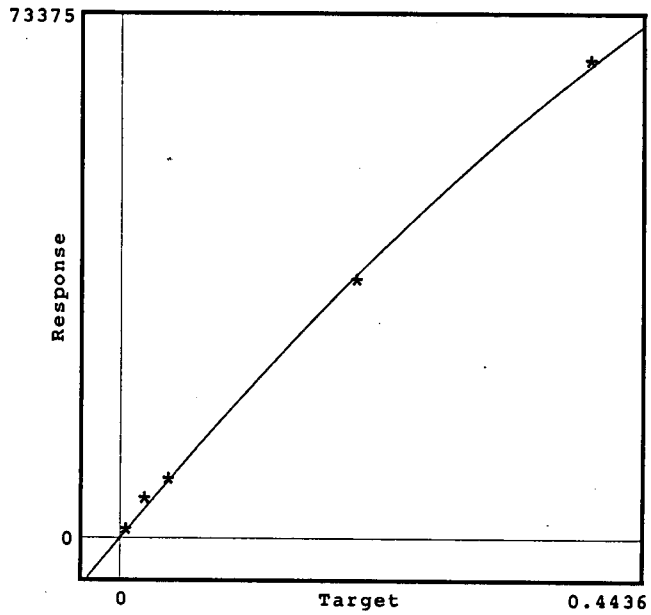
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9969080
Formula.....:
$-84913.50*X^2 + 198884.0*X + 238.6540$

RT Mean.....: 24.767
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1254_.02	24.77	0.00400000	875	1032.830	18.04	15-NOV-1997 20:28
$1254_0.10	24.77	0.0200000	5324	4182.370	-21.44	15-NOV-1997 19:48
$1254_0.20	24.77	0.0400000	7966	8058.160	1.16	15-NOV-1997 19:07
$1254_1.0	24.77	0.200000	35572	36619.00	2.94	15-NOV-1997 18:27
$1254_2.0	24.76	0.400000	66670	66206.20	-0.70	15-NOV-1997 17:47

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FORM L
INITIAL CALIBRATION

C97BL001

Compound.....: PCB 1260 -1
Method.....: 8080A

Date Printed.....: 19-NOV-1997 12:41

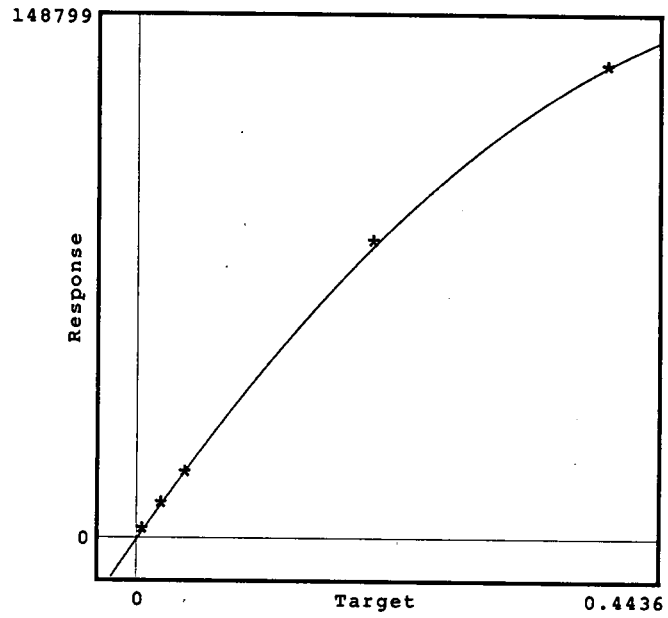
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9997410
Formula.....:
$-382732.0*X^2 + 488693.0*X + 7.048160$

RT Mean.....: 25.492
RT Std Deviation.: 0.003364

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	25.49	0.00400000	2039	1955.690	-4.09	16-NOV-1997 00:30
$1660_.10	25.49	0.0200000	9505	9627.820	1.29	15-NOV-1997 23:50
$1660_.20	25.49	0.0400000	18219	18942.40	3.97	15-NOV-1997 23:09
$1660_1.0	25.49	0.200000	83703	82436.40	-1.51	15-NOV-1997 22:29
$1660_2.0	25.49	0.400000	133798	134247.0	0.34	15-NOV-1997 21:49

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FORM L
INITIAL CALIBRATION

C97BL001

Compound.....: PCB 1260 -2
Method.....: 8080A

Date Printed.....: 19-NOV-1997 12:41

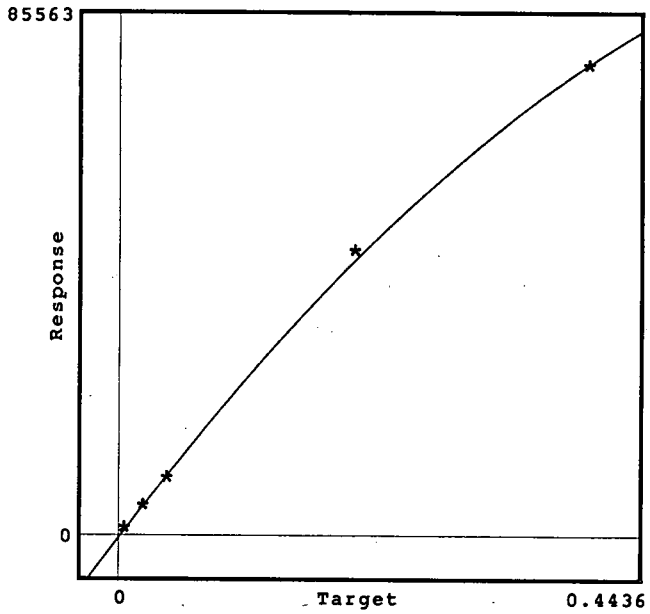
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9992050
Formula.....:
$-155412.0*X^2 + 255331.0*X + -90.41990$

RT Mean.....: 25.751
RT Std Deviation.: 0

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	25.75	0.00400000	1018	928.4200	-8.80	16-NOV-1997 00:30
$1660_.10	25.75	0.0200000	4733	4954.050	4.67	15-NOV-1997 23:50
$1660_.20	25.75	0.0400000	9288	9874.190	6.31	15-NOV-1997 23:09
$1660_1.0	25.75	0.200000	46054	44759.40	-2.81	15-NOV-1997 22:29
$1660_2.0	25.75	0.400000	76694	77176.20	0.63	15-NOV-1997 21:49

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FORM L
INITIAL CALIBRATION

C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

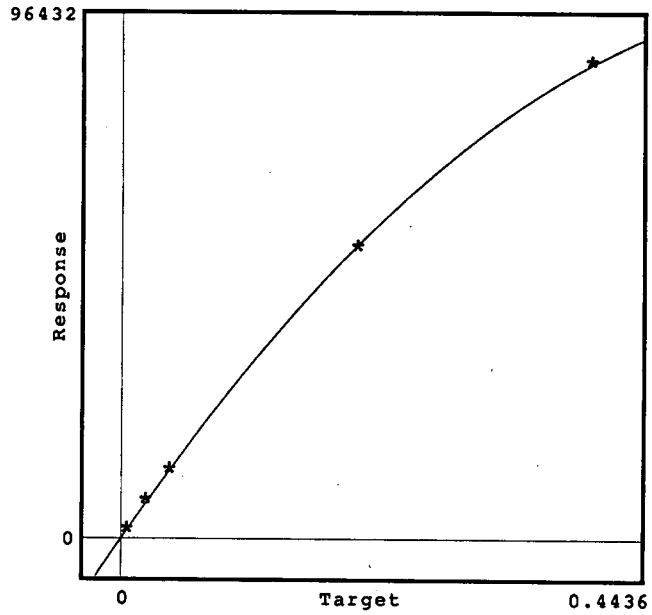
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9997960
Formula.....:
$-247370.0*X^2 + 315699.0*X + 333.4550$

RT Mean.....: 22.534
RT Std Deviation.: 0.004112

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	22.54	0.00400000	1520	1592.290	4.76	16-NOV-1997 00:30
$1660_.10	22.53	0.0200000	6917	6548.490	-5.33	15-NOV-1997 23:50
$1660_.20	22.53	0.0400000	12576	12565.60	-0.08	15-NOV-1997 23:09
$1660_1.0	22.53	0.200000	53125	53578.40	0.85	15-NOV-1997 22:29
$1660_2.0	22.53	0.400000	87208	87033.80	-0.20	15-NOV-1997 21:49

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INITIAL CALIBRATION

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C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

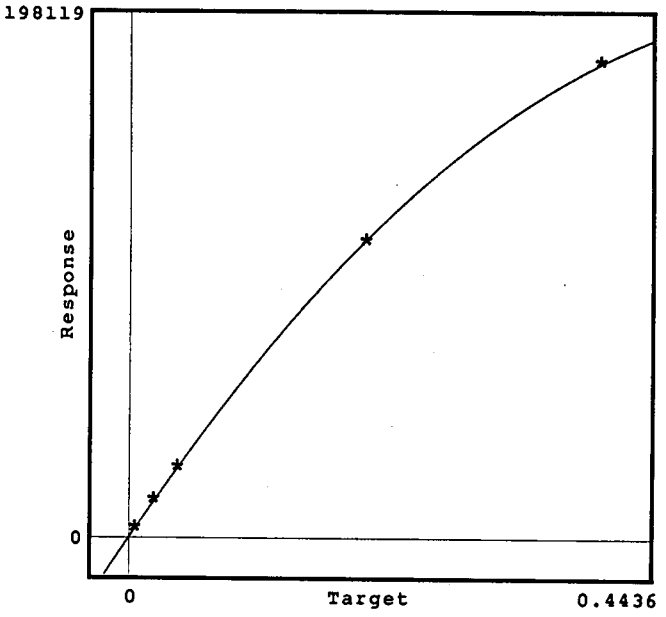
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9999150
Formula.....:
$-538658.0*X^2 + 660403.0*X + 855.2610$

RT Mean.....: 23.611
RT Std Deviation.: 0.002004

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	23.61	0.00400000	3386	3488.250	3.02	16-NOV-1997 00:30
$1660_.10	23.61	0.0200000	14340	13847.80	-3.43	15-NOV-1997 23:50
$1660_.20	23.61	0.0400000	26408	26409.50	0.0059	15-NOV-1997 23:09
$1660_1.0	23.61	0.200000	110802	111389.0	0.53	15-NOV-1997 22:29
$1660_2.0	23.61	0.400000	179054	178831.0	-0.12	15-NOV-1997 21:49

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FORM L
INITIAL CALIBRATION

C97BL001

Compound.....: PCB 1260 -5
Method.....: 8080A

Date Printed.....: 19-NOV-1997 12:41

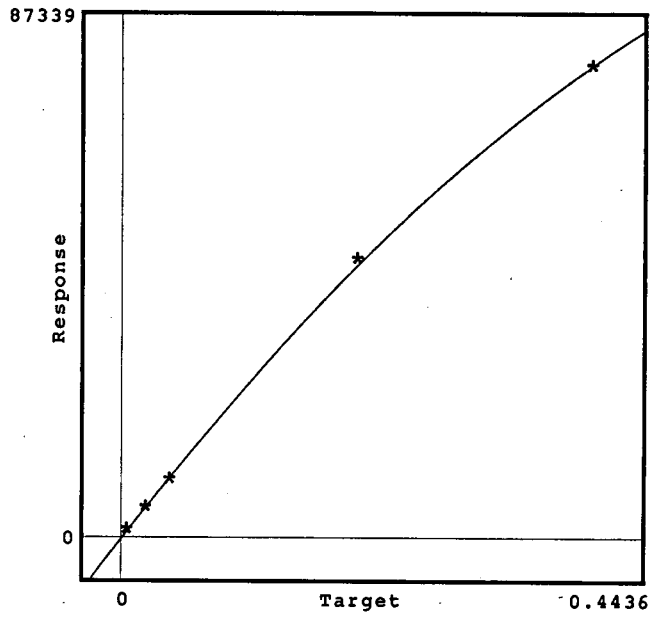
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9996070
Formula.....:
$-146869.0*X^2 + 255708.0*X + 1.928330$

RT Mean.....: 24.423
RT Std Deviation.: 0.004121

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	24.43	0.00400000	1090	1022.410	-6.20	16-NOV-1997 00:30
$1660_.10	24.42	0.0200000	4893	5057.340	3.36	15-NOV-1997 23:50
$1660_.20	24.42	0.0400000	9577	9995.250	4.37	15-NOV-1997 23:09
$1660_1.0	24.42	0.200000	46176	45268.70	-1.96	15-NOV-1997 22:29
$1660_2.0	24.42	0.400000	78441	78785.90	0.44	15-NOV-1997 21:49

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FORM L
INITIAL CALIBRATION

C97BL001

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

Date Printed.....: 19-NOV-1997 12:41

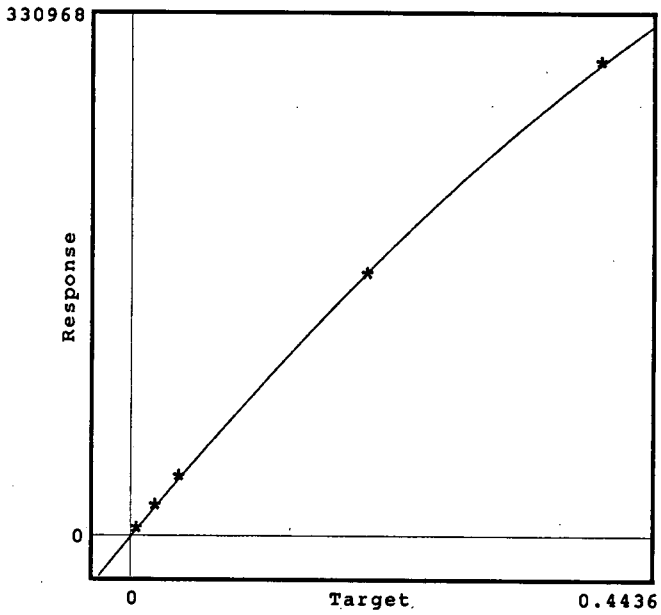
Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

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

Model.....: Quadratic
Coef of Deter(r^2): 0.9998960
Formula.....:
$-417917.0*X^2 + 913239.0*X + 113.0960$

RT Mean.....: 9.397
RT Std Deviation.: 0.001768

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	9.40	0.00400000	3674	3759.370	2.32	16-NOV-1997 00:30
$1660_.10	9.40	0.0200000	18265	18210.70	-0.30	15-NOV-1997 23:50
$1660_.20	9.40	0.0400000	37002	35974.00	-2.78	15-NOV-1997 23:09
$1660_1.0	9.40	0.200000	164458	166044.0	0.96	15-NOV-1997 22:29
$1660_2.0	9.40	0.400000	299179	298542.0	-0.21	15-NOV-1997 21:49

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DATA CHEM LABORATORIES
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FORM N1
INITIAL CALIBRATION VERIFICATION

R97BL001

Sample Name.....: ICV1254_1.0
Acquisition Date.: 15-NOV-1997 21:09

Method.....: 8080A

Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 12:41

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

Run ID.....: R97BL001
Run Start Date...: 15-NOV-1997 17:47

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.40	9.35	9.45		0.200000	0.196101	-2	25	
PCB 1254	19.58	19.53	19.63		0.200000	0.199810	0	25	
PCB 1254	20.42	20.37	20.47		0.200000	0.201480	1	25	
PCB 1254	20.73	20.68	20.78		0.200000	0.201892	1	25	
PCB 1254	22.12	22.07	22.17		0.200000	0.201691	1	25	
PCB 1254	24.77	24.72	24.82		0.200000	0.202769	1	25	
Dibutylchlorendate	27.37	27.32	27.42		0.200000	0.168764	-16	25	

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DATA CHEM LABORATORIES
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FORM N1
INITIAL CALIBRATION VERIFICATION

R97BL001

Sample Name.....: ICV_1660_1.0
Acquisition Date.: 16-NOV-1997 01:10

Method.....: 8080A

Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 12:41

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

Run ID.....: R97BL001
Run Start Date...: 15-NOV-1997 17:47

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.40	9.35	9.45		0.200000	0.185787	-7	25	
PCB 1016	14.18	14.13	14.23		0.200000	0.180831	-10	25	
PCB 1016	15.77	15.70	15.80		0.200000	0.181709	-9	25	
PCB 1016	16.46	16.41	16.51		0.200000	0.177823	-11	25	
PCB 1016	18.50	18.45	18.55		0.200000	0.180237	-10	25	
PCB 1016	19.02	18.97	19.07		0.200000	0.179916	-10	25	
PCB 1260	22.53	22.51	22.61		0.200000	0.190013	-5	25	
PCB 1260	23.61	23.56	23.66		0.200000	0.192875	-4	25	
PCB 1260	24.42	24.37	24.47		0.200000	0.196699	-2	25	
PCB 1260	25.49	25.44	25.54		0.200000	0.195047	-2	25	
PCB 1260	25.75	25.72	25.82		0.200000	0.199780	0	25	
Dibutylchlorendate	27.37	27.32	27.42		0.200000	0.196576	-2	25	

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DATA CHEM LABORATORIES
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FORM N2
CONTINUING CALIBRATION VERIFICATION

R97BL001

Sample Name.....: CCV1660_1.0
Acquisition Date.: 16-NOV-1997 08:34

Method.....: 8080A

Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 12:41

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

Run ID.....: R97BL001
Run Start Date...: 15-NOV-1997 17:47

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.40	9.35	9.45		0.200000	0.177106	-11	15	
PCB 1016	14.18	14.13	14.23		0.200000	0.181509	-9	15	
PCB 1016	15.78	15.70	15.80		0.200000	0.179877	-10	15	
PCB 1016	16.46	16.41	16.51		0.200000	0.177481	-11	15	
PCB 1016	18.50	18.45	18.55		0.200000	0.174342	-13	15	
PCB 1016	19.02	18.97	19.07		0.200000	0.178100	-11	15	
PCB 1260	22.54	22.51	22.61		0.200000	0.187920	-6	15	
PCB 1260	23.61	23.56	23.66		0.200000	0.188166	-6	15	
PCB 1260	24.42	24.37	24.47		0.200000	0.192268	-4	15	
PCB 1260	25.49	25.44	25.54		0.200000	0.189877	-5	15	
PCB 1260	25.75	25.72	25.82		0.200000	0.193596	-3	15	
Dibutylchlorendate	27.38	27.32	27.42		0.200000	0.189825	-5	15	

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DATA CHEM LABORATORIES
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FORM N2
CONTINUING CALIBRATION VERIFICATION

R97BL001

Sample Name.....: CCV1660_1.0
Acquisition Date.: 16-NOV-1997 15:57

Method.....: 8080A

Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 12:41

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

Run ID.....: R97BL001
Run Start Date...: 15-NOV-1997 17:47

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.40	9.35	9.45		0.200000	0.202094	1	15	
PCB 1016	14.19	14.13	14.23		0.200000	0.197554	-1	15	
PCB 1016	15.78	15.70	15.80		0.200000	0.200113	0	15	
PCB 1016	16.46	16.41	16.51		0.200000	0.196923	-2	15	
PCB 1016	18.50	18.45	18.55		0.200000	0.198113	-1	15	
PCB 1016	19.02	18.97	19.07		0.200000	0.196520	-2	15	
PCB 1260	22.54	22.51	22.61		0.200000	0.216569	8	15	
PCB 1260	23.62	23.56	23.66		0.200000	0.221389	11	15	
PCB 1260	24.43	24.37	24.47		0.200000	0.223604	12	15	
PCB 1260	25.50	25.44	25.54		0.200000	0.226690	13	15	
PCB 1260	25.76	25.72	25.82		0.200000	0.231909	16	15	*
Dibutylchlorendate	27.38	27.32	27.42		0.200000	0.229386	15	15	

* Failed acceptance criteria.

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FORM N2
CONTINUING CALIBRATION VERIFICATION

R97BL001

Sample Name.....: CCV1660_1.0
Acquisition Date.: 16-NOV-1997 23:20

Method.....: 8080A

Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 12:41

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

Run ID.....: R97BL001
Run Start Date...: 15-NOV-1997 17:47

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.41	9.35	9.45		0.200000	0.206648	3	15	
PCB 1016	14.19	14.13	14.23		0.200000	0.190087	-5	15	
PCB 1016	15.79	15.70	15.80		0.200000	0.188293	-6	15	
PCB 1016	16.47	16.41	16.51		0.200000	0.184997	-8	15	
PCB 1016	18.51	18.45	18.55		0.200000	0.176567	-12	15	
PCB 1016	19.03	18.97	19.07		0.200000	0.181304	-9	15	
PCB 1260	22.55	22.51	22.61		0.200000	0.193004	-3	15	
PCB 1260	23.63	23.56	23.66		0.200000	0.185344	-7	15	
PCB 1260	24.44	24.37	24.47		0.200000	0.183287	-8	15	
PCB 1260	25.51	25.44	25.54		0.200000	0.171797	-14	15	
PCB 1260	25.77	25.72	25.82		0.200000	0.184384	-8	15	
Dibutylchlorendate	27.38	27.32	27.42		0.200000	0.183478	-8	15	

WNFR

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FORM N2
CONTINUING CALIBRATION VERIFICATION

Form RLIMS63-V1.0
11199712413044
Page 24

R97BL001

Sample Name.....: CCV1660_1.0
Acquisition Date.: 17-NOV-1997 06:43

Method.....: 8080A

Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 12:41

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

Run ID.....: R97BL001
Run Start Date...: 15-NOV-1997 17:47

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.42	9.35	9.45		0.200000	0.196746	-2	15	
PCB 1016	14.20	14.13	14.23		0.200000	0.179368	-10	15	
PCB 1016	15.79	15.70	15.80		0.200000	0.177010	-11	15	
PCB 1016	16.48	16.41	16.51		0.200000	0.174539	-13	15	
PCB 1016	18.51	18.45	18.55		0.200000	0.167619	-16	15	*
PCB 1016	19.04	18.97	19.07		0.200000	0.165799	-17	15	*
PCB 1260	22.56	22.51	22.61		0.200000	0.164555	-18	15	*
PCB 1260	23.64	23.56	23.66		0.200000	0.162696	-19	15	*
PCB 1260	24.45	24.37	24.47		0.200000	0.167459	-16	15	*
PCB 1260	25.52	25.44	25.54		0.200000	0.156000	-22	15	*
PCB 1260	25.78	25.72	25.82		0.200000	0.157713	-21	15	*
Dibutylchlorendate	27.39	27.32	27.42		0.200000	0.166241	-17	15	*

* Failed acceptance criteria.

WWFR

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DATA CHEM LABORATORIES
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FORM N2
CONTINUING CALIBRATION VERIFICATION

Form RLIMS63-V1.0
11199712413044
Page 25

R97BL001

Sample Name.....: CCV1660_1.0
Acquisition Date.: 17-NOV-1997 12:06

Method.....: 8080A

Init Calib ID....: C97BL001
Init Calib Date..: 15-NOV-1997 17:47

Calibration Units: ug/ml

Date Printed.....: 19-NOV-1997 12:41

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

Run ID.....: R97BL001
Run Start Date...: 15-NOV-1997 17:47

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	9.43	9.35	9.45		0.200000	0.202878	1	15	
PCB 1016	14.20	14.13	14.23		0.200000	0.188717	-6	15	
PCB 1016	15.80	15.70	15.80		0.200000	0.183403	-8	15	
PCB 1016	16.48	16.41	16.51		0.200000	0.183994	-8	15	
PCB 1016	18.52	18.45	18.55		0.200000	0.178827	-11	15	
PCB 1016	19.04	18.97	19.07		0.200000	0.175298	-12	15	
PCB 1260	22.56	22.51	22.61		0.200000	0.172835	-14	15	
PCB 1260	23.65	23.56	23.66		0.200000	0.172421	-14	15	
PCB 1260	24.46	24.37	24.47		0.200000	0.171349	-14	15	
PCB 1260	25.53	25.44	25.54		0.200000	0.166989	-17	15	*
PCB 1260	25.78	25.72	25.82		0.200000	0.167124	-16	15	*
Dibutylchlorendate	27.40	27.32	27.42		0.200000	0.174696	-13	15	

* Failed acceptance criteria.

NWFR

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DATA CHEM
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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."

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Assembled by: _____ 11/19/97 Reviewed by: _____
Signature Date Signature Date

Rev. 3/95

DataChem Laboratories
LIMS - Sample Master System
Preparation Group Report

Date: 9-NOV-1997 19:12 Page: 1
User: NOLTEMEYER RLIMS15-V1.2

Preparation Run Name: G97B800B Group ID: G97B800B

Samples: 24

Pos	Laboratory Sample Name	Field Sample Name 1	Field Sample Name 2	Laboratory Sample ID	Laboratory Group Name	Accnt. Number
1	BL-142006-1	BL-142006-1		S97B800L	97C-0425-01	03008
2	QC-142006-1	QC-142006-1		S97B800M	97C-0425-01	03008
3	97C05000	SSSSD1		S97B50GT	97C-0425-01	03008
4	97C05001	SSSSD2		S97B50GV	97C-0425-01	03008
5	97C05002	SSSS1		S97B50GW	97C-0425-01	03008
6	97C05003	SSSSS2		S97B50GX	97C-0425-01	03008
7	97C05004	PPPSS2		S97B50GY	97C-0425-01	03008
8	97C05005	PPPSS1		S97B50GZ	97C-0425-01	03008
9	97C05006	PPPSD2		S97B50H0	97C-0425-01	03008
10	97C05007	PPPSD1		S97B50H1	97C-0425-01	03008
11	97C05008	QQQSS2		S97B50H2	97C-0425-01	03008
12	97C05009	QQQSD1		S97B50H3	97C-0425-01	03008
13	97C05010	QQQSD2		S97B50H4	97C-0425-01	03008
14	97C05011	QQQSS1		S97B50H5	97C-0425-01	03008
15	97C05012	RRRSS1		S97B50H6	97C-0425-01	03008
16	97C05013	RRRSD1		S97B50H7	97C-0425-01	03008
17	97C05014	RRRSD2		S97B50H8	97C-0425-01	03008
18	97C05015	RRRSS2		S97B50H9	97C-0425-01	03008
19	97C05016	MMMSED(S)		S97B50HB	97C-0425-01	03008
20	97C05017	MMMNS1		S97B50HC	97C-0425-01	03008
21	97C05017MS	MMMNS1		S97B50HD	97C-0425-01	03008
22	97C05017MSD	MMMNS1		S97B50HF	97C-0425-01	03008
23	97C05018	MMMSS2		S97B50HG	97C-0425-01	03008
24	97C05019	MMMSD2		S97B50HH	97C-0425-01	03008

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

DataChem Laboratories
LIMS - Sample Master System
Analysis Group Report

Date: 12-NOV-1997 12:55
User: TAYLORC

RLIMS15-V1.2

Analysis Run Name: G97BC00W

Group ID: G97BC00W

Samples: 24

Pos	Laboratory Sample Name	Field Sample Name 1	Field Sample Name 2	Laboratory Sample ID	Laboratory Group Name	Accnt. Number
1	BL-142006-1	BL-142006-1		S97B800L	97C-0425-01	03008
2	QC-142006-1	QC-142006-1		S97B800M	97C-0425-01	03008
3	97C05000	SSSSD1		S97B50GT	97C-0425-01	03008
4	97C05001	SSSSD2		S97B50GV	97C-0425-01	03008
5	97C05002	SSSS1		S97B50GW	97C-0425-01	03008
6	97C05003	SSSSS2		S97B50GX	97C-0425-01	03008
7	97C05004	PPPSS2		S97B50GY	97C-0425-01	03008
8	97C05005	PPPSS1		S97B50GZ	97C-0425-01	03008
9	97C05006	PPPSD2		S97B50H0	97C-0425-01	03008
10	97C05007	PPPSD1		S97B50H1	97C-0425-01	03008
11	97C05008	QQQSS2		S97B50H2	97C-0425-01	03008
12	97C05009	QQQSD1		S97B50H3	97C-0425-01	03008
13	97C05010	QQQSD2		S97B50H4	97C-0425-01	03008
14	97C05011	QQQSS1		S97B50H5	97C-0425-01	03008
15	97C05012	RRRSS1		S97B50H6	97C-0425-01	03008
16	97C05013	RRRSD1		S97B50H7	97C-0425-01	03008
17	97C05014	RRRSD2		S97B50H8	97C-0425-01	03008
18	97C05015	RRRSS2		S97B50H9	97C-0425-01	03008
19	97C05016	MMMSED(S)		S97B50HB	97C-0425-01	03008
20	97C05017	MMMNS1		S97B50HC	97C-0425-01	03008
21	97C05017MS	MMMNS1		S97B50HD	97C-0425-01	03008
22	97C05017MSD	MMMNS1		S97B50HF	97C-0425-01	03008
23	97C05018	MMMSS2		S97B50HG	97C-0425-01	03008
24	97C05019	MMMSD2		S97B50HH	97C-0425-01	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-0425 * | 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 (Decanted)	03 Solids (Total)							# Bottles
5-Nov-1997	SSSSD1	97C05000			SOIL						X	X	X							1
5-Nov-1997	SSSSD2	97C05001			SOIL						X	X	X							1
5-Nov-1997	SSSS~~S~~1	97C05002			SOIL						X	X	X							1
5-Nov-1997	SSSSS2	97C05003			SOIL						X	X	X							1
5-Nov-1997	PPPSS2	97C05004			SOIL						X	X	X							1
5-Nov-1997	PPPSS1	97C05005			SOIL						X	X	X							1
5-Nov-1997	PPPSD2	97C05006			SOIL						X	X	X							1
5-Nov-1997	PPPSD1	97C05007			SOIL						X	X	X							1
5-Nov-1997	QQQSS2	97C05008			SOIL						X	X	X							1
5-Nov-1997	QQQSD1	97C05009			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
R-23-1	11-9-97 2245	Walk-in/ Room/ Shelf/ Fridge Kevin Nottamyer	Storage: EXT.

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: PCB | Lab Notebook No.: 194 p 53

Prepared/Analyzed by: Kevin Nottamyer | Date/Time: 11-10-97 0030

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Kevin Nottamyer	11-10-97 9:30	Laura L. Hughes	Conc
Laura L. Hughes	11-10-97 13:30	R16-1G-LLH	storage
R-16-1C	11-12-97 1200		8080 Analysis R-72-1

Check box if there is a continuation page ☐

Form: COFCI.01-SWV2.30

Printed 11/6/1997 16:57

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-0425 * | 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	QQQSD2	97C05010			SOIL						X	X	X							1
5-Nov-1997	QQQSS1	97C05011			SOIL						X	X	X							1
5-Nov-1997	RRRSS1	97C05012			SOIL						X	X	X							1
5-Nov-1997	RRRSD1	97C05013			SOIL						X	X	X							1
5-Nov-1997	RRRSD2	97C05014			SOIL						X	X	X							1
5-Nov-1997	RRRSS2	97C05015			SOIL						X	X	X							1
5-Nov-1997	MMMSED(S)	97C05016			SOIL						X	X	X							1
5-Nov-1997	MMMNS1	97C05017			SOIL						X	X	X							1
5-Nov-1997	MMMNS1	97C05017MS		MS	SOIL						X									1
5-Nov-1997	MMMNS1	97C05017MSD		MSD	SOIL						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 1200	R23-1	Labeling/Shelving COC
R-23-1	11-7-97 2245	Walk-in/Room/Shelf/Fridge Kevin Nottemeyer	Storage:

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: PCB | Lab Notebook No.: 194 p 53

Prepared/Analyzed by: Kevin Nottemeyer | Date/Time: 11-10-97 0030

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Kevin Nottemeyer	11-10-97 9:30	Laura L. Hughes	Conc
Laura L. Hughes	11-10-97 13:30	R16-1C-LH	Storage
R-16-1C	11-12-97 1200		8080 Analysis R-72-1

Check box if there is a continuation page ☐

Form: COFC1.01-SWV2.30

Printed 11/6/1997 16:57

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-0425 * | 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	MMMSS2	97C05018			SOIL						X	X	X							1
5-Nov-1997	MMMSD2	97C05019			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 CO1
R-23-1	11-9-97 2245	Walk-in/ Room/ Shelf/ Fridge	Storage: Ex1

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: PCB | Lab Notebook No.: 194 p53

Prepared/Analyzed by: Kevin Noltemeyer | Date/Time: 11-10-97 0030

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Kevin Noltemeyer	11-10-97 9:30	Laura L. Hughes	Core.
Laura L. Hughes	11-10-97 13:30	Rita-16-GH	Storage.
R-16-1C	11-12-97 1200		8080 ANALYSIS R-77-1

Check box if there is a continuation page ☐

Form: COFC1.01-SWV2.30

Printed 11/6/1997 16:57

Sample Work Order

QC Clearance: _____

Project Manager: Scott B. Saulls

Client: Roy F. Weston

Account: 03008 **SDG:** MMMNS1

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-0425 *

DCL Lab. Name: 97C05000–97C05019

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

0085

Other Sections Receiving Sample Portions: FC, FS

Sample Work Order

QC Clearance: _____
Project Manager: Scott B. Saulls
Client: Roy F. Weston
Account: 03008 **SDG:** MMMNS1
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-0425 *
DCL Lab. Name: 97C05000-97C05019
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

0086

Other Sections Receiving Sample Portions: ZC, FS

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. Makkopp 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] % SOLIDS + uncorrected PCBs

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.

0088

Assembled by: _____ Signature 11/19/97 Date Reviewed by: _____ Signature Date

Rev. 6/95

Date Set Extracted: 11-10-97
Account No.: 3008
DCL Set No.: 97C-0425-01
Group ID/Lot: 697B800B

DATACHEM LABORATORIES EXTRACTION NOTEBOOK

Book No. EXT 194 Page No. 053
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-142006-1	30.0±0.04g				1.0ml	—	NA	Na_2SO_4	10.0ml
2	LCS	QC-142006-1						1.0ml			
3	97C05000	SSSSD1						—		N/A	
4	01	SD2						—			
5	02	S1						—			
6	03	SS2						—			
7	04	PPP SS2						—			
8	05	SS1						—			
9	06	SD2						—			
10	07	SD1						—			
11	08	QQQ SS2						—			
12	09	SD1			NA			—			
13	10	SD2						—			
14	11	SS1						—			
15	12	RRR SS1						—			
16	13	SD1						—			
17	14	SD2						—			
18	15	SS2						—			
19	16	MMM SED (S)						—		Standing Water	
20	17	NS1						—		N/A	
21	17MS							1.0ml			
22	17MSD							1.0ml			
23	18	SS2						—			
24	19	SD2						—			
25											

Solvents (+Lot #): Methylene Chl. B0151
Acetone Fisher 967647
Hexane Chl. Burdick & Jackson BQ354
Balance ID: 3811003
Surrogate Std. Ref. No.: 157WS 31205 Spiked by: KW
Matrix Spike No.: 138WS 27535 Spiked by: KW
Matrix Spike No.: — Spiked by: —
Extractionist: Karin Ostergren Date: 11-10-97
Checker: Laura L. Hughes Date: 11-10-97

Sonicator Tuned by: KW Date: 11-10-97
Comments: SONICATION EXT
NCR or CPR

* = Entry E

TITLE Roy F. Weston SDG MMMNS1

Project No. 3008
Book No. 3161

DATA CHEM LABORATORIES

Date: 12-NOV-1997 12:55
User: TAYLORC

Page: 1
RLIMS15-V1.2

Analysis Run Name: G97BC00W

Group ID: G97BC00W

Samples: 24

Pos	Laboratory Sample Name	Field Sample Name 1	Field Sample Name 2	Laboratory Sample ID	Laboratory Group Name	Accnt. Number
1	BL-142006-1	BL-142006-1		S97B800L	97C-0425-01	03008
2	QC-142006-1	QC-142006-1		S97B800M	97C-0425-01	03008
3	97C05000	SSSSD1		S97B50GT	97C-0425-01	03008
4	97C05001	SSSSD2		S97B50GV	97C-0425-01	03008
5	97C05002	SSSS1		S97B50GW	97C-0425-01	03008
6	97C05003	SSSSS2		S97B50GX	97C-0425-01	03008
7	97C05004	PPPSS2		S97B50GY	97C-0425-01	03008
8	97C05005	PPPSS1		S97B50GZ	97C-0425-01	03008
9	97C05006	PPPSD2		S97B50H0	97C-0425-01	03008
10	97C05007	PPPSD1		S97B50H1	97C-0425-01	03008
11	97C05008	QQQSS2		S97B50H2	97C-0425-01	03008
12	97C05009	QQQSD1		S97B50H3	97C-0425-01	03008
13	97C05010	QQQSD2		S97B50H4	97C-0425-01	03008
14	97C05011	QQQSS1		S97B50H5	97C-0425-01	03008
15	97C05012	RRRSS1		S97B50H6	97C-0425-01	03008
16	97C05013	RRRSD1		S97B50H7	97C-0425-01	03008
17	97C05014	RRRSD2		S97B50H8	97C-0425-01	03008
18	97C05015	RRRSS2		S97B50H9	97C-0425-01	03008
19	97C05016	MMMSED(S)		S97B50HB	97C-0425-01	03008
20	97C05017	MMMNS1		S97B50HC	97C-0425-01	03008
21	97C05017MS	MMMNS1		S97B50HD	97C-0425-01	03008
22	97C05017MSD	MMMNS1		S97B50HF	97C-0425-01	03008
23	97C05018	MMMSS2		S97B50HG	97C-0425-01	03008
24	97C05019	MMMSD2		S97B50HH	97C-0425-01	03008

12/5/97

Client Name.....: Roy F. Weston
Release Number.....: MMMNS1

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

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method....: 3550A

DCL Sample Name...: QC-142006-1
Date Printed.....: 19-NOV-97 12:03

DCL Analysis Group: G97BC00W
Analysis Method...: OP-SW-8080
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
[X] Primary
[ ] Confirmation

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
PCB 1016	12-NOV-97 22:47	167.	157.	93.9	53.1/140.	
PCB 1260	12-NOV-97 22:47	167.	156.	93.6	48.0/151.	

12/5/97

Client Name.....: Roy F. Weston
Release Number.....: MMMNS1

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

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method....: 3550A

DCL Sample Name...: 97C05017MS
Date Printed.....: 19-NOV-97 12:03

DCL Analysis Group: G97BC00W
Analysis Method...: OP-SW-8080
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
[X] Primary
[ ] Confirmation

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
PCB 1016	16-NOV-97 13:15	1640	2000	167.	216.	44.0/140.	*
PCB 1260	16-NOV-97 13:15	4700	5290	167.	355.	48.1/145.	*

G97B50HF

DCL Sample Name...: 97C05017MSD

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
PCB 1016	16-NOV-97 13:56	1860	132.	1930	140.	7.3	0.00/15.9	
PCB 1260	16-NOV-97 13:56	4950	151.	5120	340.	6.6	0.00/45.9	

12/5/97

Client Name.....: Roy F. Weston
Release Number.....: MMMNS1

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

DCL Analysis Group: G97BC00W
Analysis Method...: OP-SW-8080

DCL Prep Group.....: G97B800B
Preparation Method: 3550A

QC Limit Type.....: Performance

Surrogate Recoveries

Surr. ID	Dibutylchlorendate				Tetrachloro-m-xylene						
QC Limits	37.0/147.				38.4/154.						
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
97C05000	554.	16.7	3320	*	17.6	16.7	105.					
97C05001	12.7	16.7	76.3		14.5	16.7	86.8					
97C05002	11.1	16.7	66.8		16.9	16.7	101.					
97C05003	12.8	16.7	76.9		15.9	16.7	95.5					
97C05004	12.8	16.7	76.9		15.2	16.7	91.3					
97C05005	13.3	16.7	79.6		16.3	16.7	97.7					
97C05006	15.2	16.7	91.3		19.4	16.7	117.					
97C05007	13.9	16.7	83.5		17.1	16.7	102.					
97C05008	15.7	16.7	94.3		16.7	16.7	100.					
97C05009	14.4	16.7	86.3		13.9	16.7	83.4					
97C05010	16.5	16.7	98.8		17.9	16.7	108.					
97C05011	20.5	16.7	123.		19.3	16.7	116.					
97C05012	16.5	16.7	98.8		13.9	16.7	83.6					
97C05013	565.	16.7	3390	*	17.7	16.7	106.					
97C05014	12.2	16.7	73.3		16.8	16.7	101.					
97C05015	13.9	16.7	83.2		15.6	16.7	93.5					
97C05016	8.56	16.7	51.3		16.2	16.7	97.1					
97C05017	11.0	16.7	66.1		16.8	16.7	101.					
97C05017MS	8.44	16.7	50.7		15.9	16.7	95.4					
97C05017MSD	7.25	16.7	43.5		15.4	16.7	92.6					
97C05018	9.47	16.7	56.8		16.4	16.7	98.3					
97C05019	7.61	16.7	45.6		12.6	16.7	75.8					
BL-142006-1	18.6	16.7	112.		19.4	16.7	116.					
QC-142006-1	18.6	16.7	112.		18.5	16.7	111.					

12/5/97

method: 8080A analytes: PCBs dates of analysis 11/12-16/97
matrix: soil aliquot: 0.030 kg extraction method: 3550C date 11/10/97

instrument: (GC/ECD-7) HP5890 GC w/ DB-17 column (30 m x 0.25 mm id x 0.25 µm) & ECD (ch83).

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

standards: All calibration curves meet method specifications. All RV recoveries are within ±15%. All CCV recoveries are within ±15% with exception of:

CCV #2 TCMX +23
CCV #3 DBC -16
~~CCV #4 DBC -18~~ 12/5/97 not used.

Samples: All surrogates are within control limits with exception of dibutylchlorendate recoveries for samples 97C05000 & 97C05013. Results were reported from dilutions for these two samples due to an interference in the undiluted analyses.

All QC recoveries are in control.
MS & MSD recoveries are reported from 1:50 dilutions due to high concentration of PCB-1254 in parent sample. Recoveries are outside of control limits but RPD is in control.

Dilutions:
1:1 BL, QC, 5003, 5006, 5014
1:10 97C05001, 02, 04, 05, 07, 08,
1:25 97C05009, 11, 12
1:50 97C05017, MS, MSD
1:100 97C05010, 15, 16
1:200 97C05018, 19
1:250 97C05013
1:500 97C05000

PCB 1254 all but 5003 & 5014 (PCB1260)

0090

To Page No.

Witnessed & Understood by me, [signature]
Date 12/5/97
Invented by NOT APPLICABLE
Date
Recorded by [signature]
12/5/97

page 149 Book A-123

DATACHEM LABORATORIES GC-PESTICIDE ANALYSIS 11/19/97
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: 8081A Run Time:

Pa

Sequence File = DISK:[TAYLORC]8397316.SEQ;5 Data 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

11/19/97

11/19/97 Date

Reviewed by: 11/19/97 Date

0091

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
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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. 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	36CS07127	↓	0.2	↓	Mix 20
3.	DCB	36CS7126	↓	0.2	↓	20
4.	PCB 1221	36IS7181	100	1	10	10
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SLS 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:

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:

0094

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:

0095

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:

0096

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 7/82	100	0.2	10	2.0
2.	↓	↓	↓	0.1	↓	1.0
3.	↓	36IS 7/82	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:

0097

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	36CS7127	↓	0.2	↓	Mix 20
3.	DCB	36CS7126	↓	0.2	↓	20
4.	PCB 1232	36IS7182	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:

0098

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 9/10/97	~~1.0~~ SS 9/10/97	~~5~~ SS 9/10/97	1000
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SS 9/10/97

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:

0099

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 $C_{12}H_4Cl$, $C_{12}H_3Cl_2$, & $C_{12}H_7Cl_3$

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 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 9/19/97	~~1.0~~ SS 9/16/97	~~5~~ SS 9/16/97	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:

0101

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.

0102

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:

0103

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:

0104

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
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
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20.						

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. Hai 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 ~~1146~~ 1242 SS 9/16/97	36IS 7183	100	1	10	10
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

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 Tai Supervisor:

Comments:

0106

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.: 160-142-D (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:

0109

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
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.	9/17/97					
16.						
17.	SS					
18.						
19.						
20.						

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:

0110

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
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
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18.						
19.						
20.						

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:

0111

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~~ SS 9/16/97	~~5~~ SS 9/16/97	1000
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

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:

0112

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 $C_{12}H_4Cl_4$, $C_{12}H_5Cl_5$, & $C_{12}H_7Cl_3$

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.

0113

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:

0115

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
6.						
7.						
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10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.	SS 10/21/97					
19.						
20.						

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:

0116

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 Baxg Grade pesti 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.	TCMX	36CS07127	↓	0.2	↓	Mix 20
3.	DCB	36CS7126	↓	0.2	↓	20
4.	PCB 1254	36IS7180	100	1	10	10
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.			9/15/97			
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

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:

0117

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 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: Vinki Tsai Supervisor:

Comments:

0118

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:

0120

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.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
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16.						
17.						
18.						
19.						
20.						

7-2-97

EXPIRATION DATE 1-2-98

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

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

Checked By: [illegible] Supervisor:

Comments:

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

0122

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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
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

SS 10/21/97

EXPIRATION DATE ~~4/21/98~~ 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:

0123

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~~ 36CS7121	↓	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.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

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: Steve Smith Supervisor:

Comments:

0124

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 $C_{12}H_4Cl_5$, $C_{12}H_3Cl_6$, $C_{12}H_2Cl_7$ & $C_{12}H_1Cl_8$

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.

0125

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: _____

0126

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:

0127

Comments:

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.						
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EXPIRATION DATE 3-15-98

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

Solution Prepared By: [signature] Date of Preparation: 10-15-~~98~~ 97 SW

Checked By: Supervisor:

Comments:

10-15-97

0128

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO 138WS

Page No. 167

138 WS 27567 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	36257179	10	.05	10	0.05
2.				.05		0.05
3.				.1		0.1
4.				.2		0.2
5.		36257179	100	.1		1
6.			100	.2		2
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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:

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~~ 36CS7121	↓	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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9/15/97

EXPIRATION DATE 3/15/98

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

Solution Prepared By: Vicky Tai 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, 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 48SS	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:

0131

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.

0132

Produced by:

NSI Environmental Solutions
PO Box 12313, Research Triangle Park, NC 27709
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.

0133

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:

0135

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 10076	100	0.1	10	1.0
2.	PCB 1260	ULTRA 10075	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: [signature] Date of Preparation: 10-18-97

Checked By: [signature] 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

0137

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

ULTRA SCIENTIFIC
ISO 9001 Registered
250 Smith Street, North Kingstown, RI 02852 • 401 294 9400 • 800 338 1754

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

0138

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

ULTRA SCIENTIFIC
ISO 9001 Registered
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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 799-08-01	↓	↓	↓	↓
3.	DCB	NSI 1084-06-03				
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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.

0140

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.

0141

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.

0142

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	NSI Q-10770	5,000	0.5	500	5.0
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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:

0143

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
11249714172017

Date _____
Laboratory Group Name 97C-0425-03
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 18, 1997

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Solids (Total) %								
SSSSD1	97C05000	SOIL	54.1								
SSSSD1	97C05000MD	SOIL	55.4								
SSSSD2	97C05001	SOIL	70.8								
SSSS1	97C05002	SOIL	67.7								
SSSSS2	97C05003	SOIL	72.3								
PPPSS2	97C05004	SOIL	69.0								
PPPSS1	97C05005	SOIL	70.5								
PPPSD2	97C05006	SOIL	72.2								
PPPSD1	97C05007	SOIL	56.0								
QQQSS2	97C05008	SOIL	69.8								
QQQSD1	97C05009	SOIL	60.4								
QQQSD2	97C05010	SOIL	68.6								
QQQSS1	97C05011	SOIL	71.8								

† 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:

0145

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
11249714172017

Date _____
Laboratory Group Name 97C-0425-03

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Solids (Total) %							
RRRSS1	97C05012	SOIL	66.4							
RRRSD1	97C05013	SOIL	56.1							
RRRSD2	97C05014	SOIL	71.3							
RRRSS2	97C05015	SOIL	0.1							
MMMSED(S)	97C05016	SOIL	48.1							
MMMNS1	97C05017	SOIL	49.1							
MMMSS2	97C05018	SOIL	59.8							
MMMSD2	97C05019	SOIL	35.9							
MMMSD2	97C05019MD	SOIL	33.6							
Limit of Detection										

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

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

0146

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
FAX (801) 268-9992

DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.3
11199712030493
Page 5

S97B50GT

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **SSSSD1**
DCL Sample Name...: **97C05000**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 10:55
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 01:51	2.95	ND			500.	6.67
Aroclor 1221	16-NOV-97 01:51	20.9	ND			500.	33.3
Aroclor 1232	16-NOV-97 01:51	3.68	ND			500.	6.67
Aroclor 1242	16-NOV-97 01:51	2.53	ND			500.	6.67
Aroclor 1248	16-NOV-97 01:51	2.30	ND			500.	6.67
Aroclor 1254	16-NOV-97 01:51	1.54	32550			500.	6.67
Aroclor 1260	16-NOV-97 01:51	1.47	ND			500.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	554.	16.7	3320
Tetrachloro-m-xylene	17.6	16.7	105.

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
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.3
11199712030493
Page 6

S97B50GV

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **SSSSD2**
DCL Sample Name...: **97C05001**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 10:55
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 02:31	2.95	ND			10.0	6.67
Aroclor 1221	16-NOV-97 02:31	20.9	ND			10.0	33.3
Aroclor 1232	16-NOV-97 02:31	3.68	ND			10.0	6.67
Aroclor 1242	16-NOV-97 02:31	2.53	ND			10.0	6.67
Aroclor 1248	16-NOV-97 02:31	2.30	ND			10.0	6.67
Aroclor 1254	16-NOV-97 02:31	1.54	481			10.0	6.67
Aroclor 1260	16-NOV-97 02:31	1.47	ND			10.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	12.7	16.7	76.3
Tetrachloro-m-xylene	14.5	16.7	86.8

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

SAMPLE ANALYSIS DATA SHEET

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11199712030493
Page 7

S97B50GW

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **SSSS1**
DCL Sample Name...: **97C05002**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 10:50
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 03:11	2.95	ND			10.0	6.67
Aroclor 1221	16-NOV-97 03:11	20.9	ND			10.0	33.3
Aroclor 1232	16-NOV-97 03:11	3.68	ND			10.0	6.67
Aroclor 1242	16-NOV-97 03:11	2.53	ND			10.0	6.67
Aroclor 1248	16-NOV-97 03:11	2.30	ND			10.0	6.67
Aroclor 1254	16-NOV-97 03:11	1.54	367.67			10.0	6.67
Aroclor 1260	16-NOV-97 03:11	1.47	ND			10.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	11.1	16.7	66.8
Tetrachloro-m-xylene	16.9	16.7	101.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50GX

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **SSSSS2**
DCL Sample Name...: **97C05003**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 10:55
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	13-NOV-97 11:36	2.95	ND			1.00	6.67
Aroclor 1221	13-NOV-97 11:36	20.9	ND			1.00	33.3
Aroclor 1232	13-NOV-97 11:36	3.68	ND			1.00	6.67
Aroclor 1242	13-NOV-97 11:36	2.53	ND			1.00	6.67
Aroclor 1248	13-NOV-97 11:36	2.30	ND			1.00	6.67
Aroclor 1254	13-NOV-97 11:36	1.54	ND			1.00	6.67
Aroclor 1260	13-NOV-97 11:36	1.47	112.4			1.00	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	12.8	16.7	76.9
Tetrachloro-m-xylene	15.9	16.7	95.5

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50GY

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **PPPSS2**
DCL Sample Name...: **97C05004**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 12:00
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 03:51	2.95	ND			10.0	6.67
Aroclor 1221	16-NOV-97 03:51	20.9	ND			10.0	33.3
Aroclor 1232	16-NOV-97 03:51	3.68	ND			10.0	6.67
Aroclor 1242	16-NOV-97 03:51	2.53	ND			10.0	6.67
Aroclor 1248	16-NOV-97 03:51	2.30	ND			10.0	6.67
Aroclor 1254	16-NOV-97 03:51	1.54	1374.3			10.0	6.67
Aroclor 1260	16-NOV-97 03:51	1.47	ND			10.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	12.8	16.7	76.9
Tetrachloro-m-xylene	15.2	16.7	91.3

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50GZ

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **PPPSS1**
DCL Sample Name...: **97C05005**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 12:00
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 04:32	2.95	ND			10.0	6.67
Aroclor 1221	16-NOV-97 04:32	20.9	ND			10.0	33.3
Aroclor 1232	16-NOV-97 04:32	3.68	ND			10.0	6.67
Aroclor 1242	16-NOV-97 04:32	2.53	ND			10.0	6.67
Aroclor 1248	16-NOV-97 04:32	2.30	ND			10.0	6.67
Aroclor 1254	16-NOV-97 04:32	1.54	1655			10.0	6.67
Aroclor 1260	16-NOV-97 04:32	1.47	ND			10.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	13.3	16.7	79.6
Tetrachloro-m-xylene	16.3	16.7	97.7

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50H0

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **PPPSD2**
DCL Sample Name...: **97C05006**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 12:02
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	13-NOV-97 20:42	2.95	ND			1.00	6.67
Aroclor 1221	13-NOV-97 20:42	20.9	ND			1.00	33.3
Aroclor 1232	13-NOV-97 20:42	3.68	ND			1.00	6.67
Aroclor 1242	13-NOV-97 20:42	2.53	ND			1.00	6.67
Aroclor 1248	13-NOV-97 20:42	2.30	ND			1.00	6.67
Aroclor 1254	13-NOV-97 20:42	1.54	197.3			1.00	6.67
Aroclor 1260	13-NOV-97 20:42	1.47	ND			1.00	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	15.2	16.7	91.3
Tetrachloro-m-xylene	19.4	16.7	117.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50H1

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: PPPSD1
DCL Sample Name...: 97C05007
DCL Report Group..: 97C-0425-01

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 12:02
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 05:12	2.95	ND			10.0	6.67
Aroclor 1221	16-NOV-97 05:12	20.9	ND			10.0	33.3
Aroclor 1232	16-NOV-97 05:12	3.68	ND			10.0	6.67
Aroclor 1242	16-NOV-97 05:12	2.53	ND			10.0	6.67
Aroclor 1248	16-NOV-97 05:12	2.30	ND			10.0	6.67
Aroclor 1254	16-NOV-97 05:12	1.54	2806.33			10.0	6.67
Aroclor 1260	16-NOV-97 05:12	1.47	ND			10.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	13.9	16.7	83.5
Tetrachloro-m-xylene	17.1	16.7	102.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50H2

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **QQQSS2**
DCL Sample Name...: **97C05008**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 11:20
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 05:52	2.95	ND			10.0	6.67
Aroclor 1221	16-NOV-97 05:52	20.9	ND			10.0	33.3
Aroclor 1232	16-NOV-97 05:52	3.68	ND			10.0	6.67
Aroclor 1242	16-NOV-97 05:52	2.53	ND			10.0	6.67
Aroclor 1248	16-NOV-97 05:52	2.30	ND			10.0	6.67
Aroclor 1254	16-NOV-97 05:52	1.54	594.7			10.0	6.67
Aroclor 1260	16-NOV-97 05:52	1.47	ND			10.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	15.7	16.7	94.3
Tetrachloro-m-xylene	16.7	16.7	100.

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

SAMPLE ANALYSIS DATA SHEET

S97B50H3

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **QQQSD1**
DCL Sample Name...: **97C05009**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 11:25
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 06:33	2.95	ND			25.0	6.67
Aroclor 1221	16-NOV-97 06:33	20.9	ND			25.0	33.3
Aroclor 1232	16-NOV-97 06:33	3.68	ND			25.0	6.67
Aroclor 1242	16-NOV-97 06:33	2.53	ND			25.0	6.67
Aroclor 1248	16-NOV-97 06:33	2.30	ND			25.0	6.67
Aroclor 1254	16-NOV-97 06:33	1.54	3522.5			25.0	6.67
Aroclor 1260	16-NOV-97 06:33	1.47	ND			25.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	14.4	16.7	86.3
Tetrachloro-m-xylene	13.9	16.7	83.4

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.3
11199712030493
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S97B50H4

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: QQQSD2
DCL Sample Name...: 97C05010
DCL Report Group..: 97C-0425-01

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 11:25
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 07:13	2.95	ND			100.	6.67
Aroclor 1221	16-NOV-97 07:13	20.9	ND			100.	33.3
Aroclor 1232	16-NOV-97 07:13	3.68	ND			100.	6.67
Aroclor 1242	16-NOV-97 07:13	2.53	ND			100.	6.67
Aroclor 1248	16-NOV-97 07:13	2.30	ND			100.	6.67
Aroclor 1254	16-NOV-97 07:13	1.54	8853.33			100.	6.67
Aroclor 1260	16-NOV-97 07:13	1.47	ND			100.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	16.5	16.7	98.8
Tetrachloro-m-xylene	17.9	16.7	108.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50H5

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: QQQSS1
DCL Sample Name...: 97C05011
DCL Report Group..: 97C-0425-01

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 11:20
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 07:53	2.95	ND			25.0	6.67
Aroclor 1221	16-NOV-97 07:53	20.9	ND			25.0	33.3
Aroclor 1232	16-NOV-97 07:53	3.68	ND			25.0	6.67
Aroclor 1242	16-NOV-97 07:53	2.53	ND			25.0	6.67
Aroclor 1248	16-NOV-97 07:53	2.30	ND			25.0	6.67
Aroclor 1254	16-NOV-97 07:53	1.54	3942.5			25.0	6.67
Aroclor 1260	16-NOV-97 07:53	1.47	ND			25.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	20.5	16.7	123.
Tetrachloro-m-xylene	19.3	16.7	116.

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

SAMPLE ANALYSIS DATA SHEET

S97B50H6

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: RRRSS1
DCL Sample Name...: 97C05012
DCL Report Group..: 97C-0425-01

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 11:05
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 09:14	2.95	ND			25.0	6.67
Aroclor 1221	16-NOV-97 09:14	20.9	ND			25.0	33.3
Aroclor 1232	16-NOV-97 09:14	3.68	ND			25.0	6.67
Aroclor 1242	16-NOV-97 09:14	2.53	ND			25.0	6.67
Aroclor 1248	16-NOV-97 09:14	2.30	ND			25.0	6.67
Aroclor 1254	16-NOV-97 09:14	1.54	2367.5			25.0	6.67
Aroclor 1260	16-NOV-97 09:14	1.47	ND			25.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	16.5	16.7	98.8
Tetrachloro-m-xylene	13.9	16.7	83.6

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50H7

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **RRRSD1**
DCL Sample Name...: **97C05013**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 11:10
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 09:54	2.95	ND			250.	6.67
Aroclor 1221	16-NOV-97 09:54	20.9	ND			250.	33.3
Aroclor 1232	16-NOV-97 09:54	3.68	ND			250.	6.67
Aroclor 1242	16-NOV-97 09:54	2.53	ND			250.	6.67
Aroclor 1248	16-NOV-97 09:54	2.30	ND			250.	6.67
Aroclor 1254	16-NOV-97 09:54	1.54	38125			250.	6.67
Aroclor 1260	16-NOV-97 09:54	1.47	ND			250.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	565.	16.7	3390
Tetrachloro-m-xylene	17.7	16.7	106.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50H8

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **RRRSD2**
DCL Sample Name...: **97C05014**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 11:10
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	14-NOV-97 02:34	2.95	ND			1.00	6.67
Aroclor 1221	14-NOV-97 02:34	20.9	ND			1.00	33.3
Aroclor 1232	14-NOV-97 02:34	3.68	ND			1.00	6.67
Aroclor 1242	14-NOV-97 02:34	2.53	ND			1.00	6.67
Aroclor 1248	14-NOV-97 02:34	2.30	ND			1.00	6.67
Aroclor 1254	14-NOV-97 02:34	1.54	ND			1.00	6.67
Aroclor 1260	14-NOV-97 02:34	1.47	154.4			1.00	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	12.2	16.7	73.3
Tetrachloro-m-xylene	16.8	16.7	101.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50H9

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **RRRSS2**
DCL Sample Name...: **97C05015**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 11:05
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 10:34	2.95	ND			100.	6.67
Aroclor 1221	16-NOV-97 10:34	20.9	ND			100.	33.3
Aroclor 1232	16-NOV-97 10:34	3.68	ND			100.	6.67
Aroclor 1242	16-NOV-97 10:34	2.53	ND			100.	6.67
Aroclor 1248	16-NOV-97 10:34	2.30	ND			100.	6.67
Aroclor 1254	16-NOV-97 10:34	1.54	578.5			100.	6.67
Aroclor 1260	16-NOV-97 10:34	1.47	ND			100.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	13.9	16.7	83.2
Tetrachloro-m-xylene	15.6	16.7	93.5

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

SAMPLE ANALYSIS DATA SHEET

S97B50HB

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **MMMSED(S)**
DCL Sample Name...: **97C05016**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:10
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 11:15	2.95	ND			100.	6.67
Aroclor 1221	16-NOV-97 11:15	20.9	ND			100.	33.3
Aroclor 1232	16-NOV-97 11:15	3.68	ND			100.	6.67
Aroclor 1242	16-NOV-97 11:15	2.53	ND			100.	6.67
Aroclor 1248	16-NOV-97 11:15	2.30	ND			100.	6.67
Aroclor 1254	16-NOV-97 11:15	1.54	8223.33			100.	6.67
Aroclor 1260	16-NOV-97 11:15	1.47	ND			100.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	8.56	16.7	51.3
Tetrachloro-m-xylene	16.2	16.7	97.1

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

SAMPLE ANALYSIS DATA SHEET

S97B50HC

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **MMMNS1**
DCL Sample Name...: **97C05017**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:25
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 12:35	2.95	ND			50.0	6.67
Aroclor 1221	16-NOV-97 12:35	20.9	ND			50.0	33.3
Aroclor 1232	16-NOV-97 12:35	3.68	ND			50.0	6.67
Aroclor 1242	16-NOV-97 12:35	2.53	ND			50.0	6.67
Aroclor 1248	16-NOV-97 12:35	2.30	ND			50.0	6.67
Aroclor 1254	16-NOV-97 12:35	1.54	6373.33			50.0	6.67
Aroclor 1260	16-NOV-97 12:35	1.47	ND			50.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	11.0	16.7	66.1
Tetrachloro-m-xylene	16.8	16.7	101.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50HD

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **MMMNS1**
DCL Sample Name...: **97C05017MS**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:25
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 13:15	2.95	1996.67			50.0	6.67
Aroclor 1260	16-NOV-97 13:15	1.47	5286.67			50.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	8.44	16.7	50.7
Tetrachloro-m-xylene	15.9	16.7	95.4

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50HF

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **MMMNS1**
DCL Sample Name...: **97C05017MSD**
DCL Report Group..: **97C-0425-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:25
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 13:56	2.95	1856.67			50.0	6.67
Aroclor 1260	16-NOV-97 13:56	1.47	4946.67			50.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	7.25	16.7	43.5
Tetrachloro-m-xylene	15.4	16.7	92.6

0166

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50HG

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: MMMSS2
DCL Sample Name...: 97C05018
DCL Report Group..: 97C-0425-01

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

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 11:55	2.95	ND			200.	6.67
Aroclor 1221	16-NOV-97 11:55	20.9	ND			200.	33.3
Aroclor 1232	16-NOV-97 11:55	3.68	ND			200.	6.67
Aroclor 1242	16-NOV-97 11:55	2.53	ND			200.	6.67
Aroclor 1248	16-NOV-97 11:55	2.30	ND			200.	6.67
Aroclor 1254	16-NOV-97 11:55	1.54	7506.67			200.	6.67
Aroclor 1260	16-NOV-97 11:55	1.47	ND			200.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	9.47	16.7	56.8
Tetrachloro-m-xylene	16.4	16.7	98.3

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

SAMPLE ANALYSIS DATA SHEET

S97B50HH

Date Printed.....: 19-NOV-97 12:03

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMNS1

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

Client Sample Name: **MMMSD2**
DCL Sample Name...: **97C05019**
DCL Report Group..: **97C-0425-01**

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

DCL Preparation Group: G97B800B
Date Prepared.....: 10-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00W
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-7
Column Type.....: DB-17
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 14:36	2.95	ND			200.	6.67
Aroclor 1221	16-NOV-97 14:36	20.9	ND			200.	33.3
Aroclor 1232	16-NOV-97 14:36	3.68	ND			200.	6.67
Aroclor 1242	16-NOV-97 14:36	2.53	ND			200.	6.67
Aroclor 1248	16-NOV-97 14:36	2.30	ND			200.	6.67
Aroclor 1254	16-NOV-97 14:36	1.54	12700			200.	6.67
Aroclor 1260	16-NOV-97 14:36	1.47	ND			200.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Dibutylchlorendate	7.61	16.7	45.6
Tetrachloro-m-xylene	12.6	16.7	75.8

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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: _____ 12/5/97 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

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]8397316.SEQ;4
Date: 18-NOV-1997 14:52:54.89

Spl	Sample Name	Inj	Method File	Calib RT	Calib CF	Data File
1	PRIME	1	8397316_8080P			8397316001
2	PCB221_2.0	1	8397316_8080P			8397316002
3	PCB232_2.0	1	8397316_8080P			8397316003
4	PCB242_2.0	1	8397316_8080P			8397316004
5	PCB248_2.0	1	8397316_8080P			8397316005
6	PCB254_2.0	1	8397316_8080P			8397316006
7	$1660_2.0	1	8397316_8080P	I	R	8397316007
8	$1660_1.0	1	8397316_8080P	I	R	8397316008
9	$1660_.20	1	8397316_8080P	I	R	8397316009
10	$1660_.10	1	8397316_8080P	I	R	8397316010
11	$1660_.02	1	8397316_8080P	I	R	8397316011
12	ICV_1660_1.0	1	8397316_8080P			8397316012
13	BL-142006-1	1	8397316_8080P			8397316013
14	QC-142006-1	1	8397316_8080P			8397316014
15	97C05000	1	8397316_8080P			8397316015
16	97C05001	1	8397316_8080P			8397316016
17	97C05002	1	8397316_8080P			8397316017
18	97C05003	1	8397316_8080P			8397316018
19	97C05004	1	8397316_8080P			8397316019
20	97C05005	1	8397316_8080P			8397316020
21	97C05006	1	8397316_8080P			8397316021
22	97C05007	1	8397316_8080P			8397316022
23	CCV1660_1.0	1	8397316_8080P			8397316023
24	97C05008	1	8397316_8080P			8397316024
25	97C05009	1	8397316_8080P			8397316025
26	97C05010	1	8397316_8080P			8397316026
27	97C05011	1	8397316_8080P			8397316027
28	97C05012	1	8397316_8080P			8397316028
29	97C05013	1	8397316_8080P			8397316029
30	97C05014	1	8397316_8080P			8397316030
31	97C05015	1	8397316_8080P			8397316031
32	97C05016	1	8397316_8080P			8397316032
33	97C05018	1	8397316_8080P			8397316033
34	CCV1660_1.0	1	8397316_8080P			8397316034
35	97C05017	1	8397316_8080P			8397316035
36	97C05017MS	1	8397316_8080P			8397316036
37	97C05017MSD	1	8397316_8080P			8397316037
38	97C05019	1	8397316_8080P			8397316038
39	CCV1660_1.0	1	8397316_8080P			8397316039
40	PRIME	1	8397316_8080P			8397316040
41	CCV1660_1.0	1	8397316_8080P			8397316041
42	$1254_2.0	1	8397316_8080P2			8397316042
43	$1254_1.0	1	8397316_8080P2			8397316043
44	$1254_0.20	1	8397316_8080P2			8397316044
45	$1254_0.10	1	8397316_8080P2			8397316045
46	$1254_0.02	1	8397316_8080P2			8397316046
47	ICV1254_1.0	1	8397316_8080P2			8397316047
48	$1660_2.0	1	8397316_8080P2	I	R	8397316048
49	$1660_1.0	1	8397316_8080P2	I	R	8397316049
50	$1660_.20	1	8397316_8080P2	I	R	8397316050
51	$1660_.10	1	8397316_8080P2	I	R	8397316051
52	$1660_.02	1	8397316_8080P2	I	R	8397316052
53	ICV_1660_1.0	1	8397316_8080P2			8397316053
54	97C05000 X500	1	8397316_8080P2			8397316054
55	97C05001 X10	1	8397316_8080P2			8397316055
56	97C05002 X10	1	8397316_8080P2			8397316056
57	97C05004 X10	1	8397316_8080P2			8397316057
58	97C05005 X10	1	8397316_8080P2			8397316058

59	97C05007 X10	1	8397316_8080P2	8397316059
60	97C05008 X10	1	8397316_8080P2	8397316060
61	97C05009 X25	1	8397316_8080P2	8397316061
62	97C05010 X100	1	8397316_8080P2	8397316062
63	97C05011 X25	1	8397316_8080P2	8397316063
64	CCV1660_1.0	1	8397316_8080P2	8397316064
65	97C05012 X25	1	8397316_8080P2	8397316065
66	97C05013 X250	1	8397316_8080P2	8397316066
67	97C05015 X100	1	8397316_8080P2	8397316067
68	97C05016 X100	1	8397316_8080P2	8397316068
69	97C05018 X200	1	8397316_8080P2	8397316069
70	97C05017 X50	1	8397316_8080P2	8397316070
71	97C05017MS X50	1	8397316_8080P2	8397316071
72	97C05017MSD X50	1	8397316_8080P2	8397316072
73	97C05019 X200	1	8397316_8080P2	8397316073
74	BL-142018-1	1	8397316_8080P2	8397316074
75	CCV1660_1.0	1	8397316_8080P2	8397316075
76	QC-142018-1	1	8397316_8080P2	8397316076
77	97C05080	1	8397316_8080P2	8397316077
78	97C05081	1	8397316_8080P2	8397316078
79	BL-142015-1	1	8397316_8080P2	8397316079
80	QC-142015-1	1	8397316_8080P2	8397316080
81	97C05060	1	8397316_8080P2	8397316081
82	97C05061	1	8397316_8080P2	8397316082
83	97C05062	1	8397316_8080P2	8397316083
84	97C05063	1	8397316_8080P2	8397316084
85	97C05064	1	8397316_8080P2	8397316085
86	CCV1660_1.0	1	8397316_8080P2	8397316086
87	97C05065	1	8397316_8080P2	8397316087
88	97C05066	1	8397316_8080P2	8397316088
89	97C05067	1	8397316_8080P2	8397316089
90	97C05067MS	1	8397316_8080P2	8397316090
91	97C05067MSD	1	8397316_8080P2	8397316091
92	97C05068	1	8397316_8080P2	8397316092
93	97C05069	1	8397316_8080P2	8397316093
94	97C05070	1	8397316_8080P2	8397316094
95	97C05071	1	8397316_8080P2	8397316095
96	97C05072	1	8397316_8080P2	8397316096
97	CCV1660_1.0	1	8397316_8080P2	8397316097
98	97C05073	1	8397316_8080P2	8397316098
99	97C05074	1	8397316_8080P2	8397316099
100	97C05075	1	8397316_8080P2	8397316100
101	97C05076	1	8397316_8080P2	8397316101
102	97C05077	1	8397316_8080P2	8397316102
103	97C05078	1	8397316_8080P2	8397316103
104	97C05079	1	8397316_8080P2	8397316104
105	CCV1660_1.0	1	8397316_8080P2	8397316105

Reports: Delayed
Calibration mode: 2. Calibrate standards before analyzing unknowns.

PENelson ACCESS*CHROM v1.9 Injection Log Worksheet

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

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

PENelson ACCESS*CHROM v1.9 Injection Log Worksheet

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

Seq#	Rep#	Sample Name Sample Notes	Data Filename	Acquisition Time
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

PENelson ACCESS*CHROM v1.9 Injection Log Worksheet

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

Seq#	Rep#	Sample Name Sample Notes	Data Filename	Acquisition Time
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

PENelson ACCESS*CHROM v1.9 Injection Log Worksheet

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

Seq#	Rep#	Sample Name Sample Notes	Data Filename	Acquisition Time
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

PENelson ACCESS*CHROM v1.9 Injection Log Worksheet

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

Seq#	Rep#	Sample Name Sample Notes	Data Filename	Acquisition Time
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

Section 2.
Environmental Organic Analysis
(Rev. 1: 3/95)

Quantitation Data
Inventory Checklist

[NA] 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 Result	PCB016 Result	PCB254 Result	PCB260 Result	DBUCLE Result	Peak RT Mean / RT SD / Response
	9.3965	16.841	21.391	24.362	27.375	
	1.8465E-03	1.798	1.743	1.197	2.8335E-03	
PRIME	0.2818	1.38		1.384	0.2403	
PCB221_2.0	0.3332	0.1095		1.4415E-02	0.327	
PCB232_2.0	0.621	1.472		6.9818E-02	0.5909	
PCB242_2.0	0.3751	1.632		7.9447E-02	0.3742	
PCB248_2.0	0.4306	2.012		0.2594	0.4282	
PCB254_2.0	0.4168	0.3978		0.3861	0.413	
$1660_2.0	0	0		0	0	
$1660_1.0	0	0		0	0	
$1660_.20	0	0		0	0	
$1660_.10	0	0		0	0	
$1660_.02	0	0		0	0	
ICV_1660_1.0	0.2127	0.9957		1.116	0.2227	
BL-142006-1	19.38	-1.239		-1.41	18.64	
QC-142006-1	18.53	156.5		156	18.59	
97C05000	17.57	308.9		0	371.7	
97C05001	14.46	48.48		185.8	12.71	
97C05002	16.88	45.28		235.9	11.13	
97C05003	15.92	16.06		105.5	12.81	
97C05004	15.21	110.5		422	12.82	
97C05005	16.28	144.8		560	13.27	
97C05006	19.43	10.84		159.8	15.22	
97C05007	17.05	214.4		508.9	13.92	
CCV1660_1.0	0.2073	1.002		0.983	0.2034	
97C05008	16.68	49.78		176.6	15.71	
97C05009	13.9	129.8		440.4	14.38	
97C05010	17.93	354.9		417.4	16.46	
97C05011	19.31	294.7		494.2	20.54	
97C05012	13.94	180.6		331.9	16.46	
97C05013	17.66	51.57		0	371.9	
97C05014	16.81	26.91		154.4	12.22	
97C05015	15.59	78.41		209.8	13.87	
97C05016	16.19	294.8		842.5	8.558	
97C05018	16.39	595.4		697.1	9.468	
CCV1660_1.0	0.2458	1.07		0.9734	0.2016	
97C05017	16.83	475.2		453.2	11.02	
97C05017MS	15.9	694.9		545.6	8.444	
97C05017MSD	15.44	653.6		504.4	7.254	
97C05019	12.64	329.8		320.3	7.607	
CCV1660_1.0	0.2213	0.9574		0.8312	0.167	
PRIME	0.5723	2.245		2.193	0.4433	

0179

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
	9.3965	16.841	21.391	24.362	27.375	
	1.8465E-03	1.798	1.743	1.197	2.8335E-03	
CCV1660_1.0	0.195	0.8737		0.7671	0.1644	
$1254_2.0	0	0	0	0	0	
$1254_1.0	0	0	0	0	0	
$1254_0.20	0	0	0	0	0	
$1254_0.10	0	0	0	0	0	
	+	+	+	+	+	
$1254_.02	0	0	0	0	0	
ICV1254_1.0	0.1961	0.1874	1.008	0.6359	0.1688	
$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	0.1858	0.9005	0.1654	0.9744	0.1966	
97C05000 X50	-4.0620E-05	5.7603E-03	0.1953	0.1471	3.3228E-03	
97C05001 X10	5.4183E-03	3.3338E-02	0.1443	0.1497	5.3906E-03	
	+	+	+	+	+	
97C05002 X10	5.5910E-03	2.1971E-02	0.1103	9.0730E-02	4.5390E-03	
97C05004 X10	4.7307E-03	4.2635E-02	0.4123	0.3796	5.9556E-03	
97C05005 X10	5.3599E-03	5.6149E-02	0.4966	0.4858	6.2900E-03	
97C05007 X10	5.4271E-03	8.4682E-02	0.8419	0.3524	6.2914E-03	
97C05008 X10	5.8684E-03	2.1540E-02	0.1784	0.1564	6.4668E-03	
	+	+	+	+	+	
97C05009 X25	2.2250E-03	2.1983E-02	0.4227	0.3722	3.3302E-03	
97C05010 X10	3.7335E-04	9.9459E-03	0.2656	0.1865	1.4820E-03	
97C05011 X25	2.5444E-03	4.9393E-02	0.4731	0.4232	5.2309E-03	
CCV1660_1.0	0.1771	0.8913	0.1637	0.9518	0.1898	
97C05012 X25	1.9442E-03	3.5139E-02	0.2841	0.284	4.6385E-03	
	+	+	+	+	+	
97C05013 X25	3.8220E-05	2.3941E-02	0.4575	0.3373	6.7830E-03	
97C05015 X10	4.1827E-04	3.6356E-04	1.3880E-02	1.7304E-02	1.8057E-03	
97C05016 X10	3.6130E-04	0.1007	0.2467	0.1719	1.4484E-03	
97C05018 X20	7.9832E-05	1.5899E-02	0.1126	8.6992E-02	1.2582E-03	
97C05017 X50	1.3267E-03	9.8236E-02	0.3824	0.2817	1.9473E-03	
	+	+	+	+	+	
97C05017MS X	1.0768E-03	0.1198	0.4131	0.3172	1.9312E-03	
97C05017MSD	1.0406E-03	0.1114	0.396	0.2968	1.7664E-03	
97C05019 X20	6.8882E-05	1.7510E-02	0.1905	0.1363	3.2059E-03	
BL-142018-1	7.8365E-02	-2.2470E-02	-8.8744E-03	-1.6783E-02	0.4386	
CCV1660_1.0	0.2021	0.9892	0.177	1.12	0.2294	
	+	+	+	+	+	
QC-142018-1	5.0101E-02	4.538	1.197	4.301	0.4132	
97C05080	0.7	5.267	0	0	0.4032	
97C05081	0.7867	1.029	0	0	0.2952	
BL-142015-1	16.25	3.819	9.889	6.528	17.02	
QC-142015-1	15.56	155.6	36.89	137.7	14.19	
	+	+	+	+	+	

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
	9.3965	16.841	21.391	24.362	27.375	
	1.8465E-03	1.798	1.743	1.197	2.8335E-03	
97C05060	15.81	193.8	454.1	162.3	11.98	
97C05061	14.7	89.81	0	0	1.599	
97C05062	13.85	154.7	0	130.8	9.609	
97C05063	13.32	216.1	0	193.6	6.607	
97C05064	14.52	100.8	0	0	0	
+	+	+	+	+	+	
CCV1660_1.0	0.2066	0.9212	0.1936	0.9178	0.1835	
97C05065	13.26	369.5	0	130.2	9.777	
97C05066	10.84	0	0	80.38	10.69	
97C05067	14.07	143.6	0	181	12.97	
97C05067MS	13.63	266.1	0	286.1	14.48	
+	+	+	+	+	+	
97C05067MSD	15.1	296.1	0	289.4	14.59	
97C05068	14.82	169.2	0	214.2	13.81	
97C05069	15.86	251.1	0	205.7	12.57	
97C05070	14.06	216.9	0	149.3	12.43	
97C05071	12.98	66.75	0	0	137.5	
+	+	+	+	+	+	
97C05072	13.6	220.2	0	273.5	15.8	
CCV1660_1.0	0.1967	0.8643	0.1593	0.8084	0.1662	
97C05073	18.21	4.569	60.92	44.28	13.18	
97C05074	15.68	340.5	0	212.7	22.92	
97C05075	14.81	71.72	0	0	9.846	
+	+	+	+	+	+	
97C05076	17.28	19.54	100.9	77.82	12.74	
97C05077	15.96	117.8	0	82.74	7.92	
97C05078	16.07	367.8	0	283.5	12.38	
97C05079	19.31	240.9	0	75.86	16.78	
CCV1660_1.0	0.2029	0.9102	0.1704	0.8507	0.1747	
+	+	+	+	+	+	

11/19/97

12/5/97

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.....15-NOV-1997 16:14:48.89 User: TAYLORC
Report number.....1197249590
Raw file.....DISK:[TAYLORC]8397316007.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;16
Last method update..15-NOV-1997 16:14:50.26

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 17:42:24
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1660_2.0
Notes.....138-WS-27590-1

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min	Delay time.....9.200 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.....0	
Sample vial.....165	
Analysis fit.....Quadratic	Origin treatment....Ignore
Calib. factors.....Replace	Retention times.....Unaltered
Volume injected.....1.00000	(1/x,y) exponent....-1

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: $1660_2.0

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref	Std
CL4XYL	9.394	301936	0.40000	7.548E+05		
PCB016	14.182	71578	0.40000	1.789E+05		
PCB016	15.773	132110	0.40000	3.303E+05		
PCB016	16.461	66392	0.40000	1.660E+05		
PCB016	18.496	64285	0.40000	1.607E+05		
PCB016	19.019	48063	0.40000	1.202E+05		
PCB260	22.532	100796	0.40000	2.520E+05		
PCB260	23.608	220515	0.40000	5.513E+05		
PCB260	24.423	94301	0.40000	2.358E+05		
PCB260	25.491	164381	0.40000	4.110E+05		
PCB260	25.750	92010	0.40000	2.300E+05		
DBUCLE	27.379	452943	0.40000	1.132E+06		

0183

METHOD CALIBRATION CHANGES

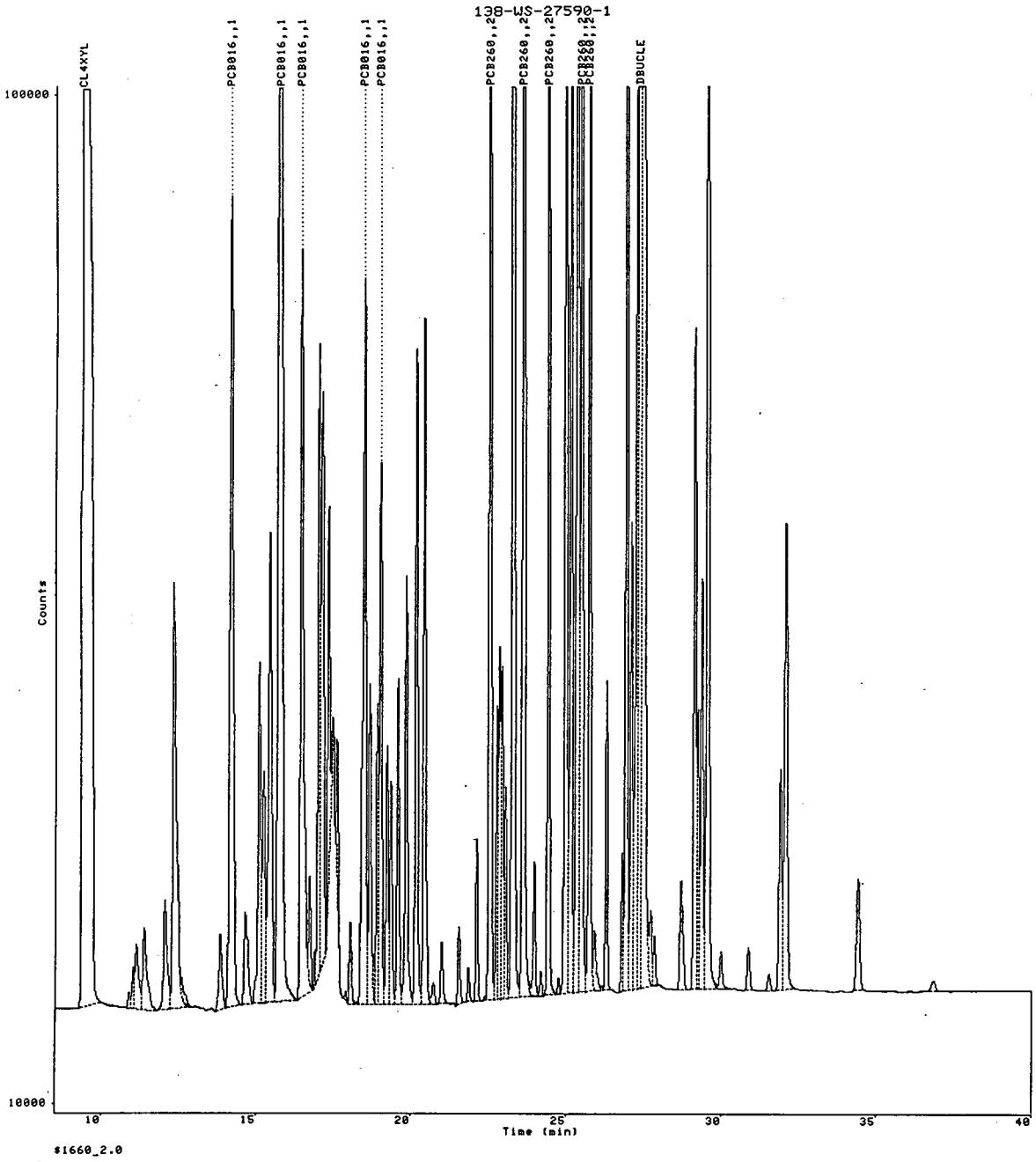
Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375	7.548E+05	7.548E+05		1
PCB016	14.183	14.183	1.789E+05	1.789E+05		1
PCB016	15.777	15.777	3.303E+05	3.303E+05		1
PCB016	16.461	16.461	1.660E+05	1.660E+05		1
PCB016	18.497	18.497	1.607E+05	1.607E+05		1
PCB016	19.020	19.020	1.202E+05	1.202E+05		1
PCB260	22.529	22.529	2.520E+05	2.520E+05		1
PCB260	23.607	23.607	5.513E+05	5.513E+05		1
PCB260	24.420	24.420	2.358E+05	2.358E+05		1
PCB260	25.490	25.490	4.110E+05	4.110E+05		1
PCB260	25.756	25.756	2.300E+05	2.300E+05		1
DBUCLE	27.382	27.382	1.132E+06	1.132E+06		1

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

0184

Data file: DISK:[TAYLORC]8397316007.RAW;1
Report: 1197249590
Acquired: 12-NOV-1997 17:42:24
Time range: 8.50-40.00



Date.....15-NOV-1997 16:14:54.14 User: TAYLORC
Report number.....1197249591
Raw file.....DISK:[TAYLORC]8397316008.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;17
Last method update..15-NOV-1997 16:14:55.57

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 18:25:58
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1660_1.0
Notes.....138-WS-27590-2

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
      length.....30 M
      diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....90
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Calib. factors.....Replace Retention times.....Unaltered
Volume injected.....1.00000 (1/x,y) exponent....-1

==========
EXTERNAL STANDARD CALIBRATION
==========
Calibration Sample name: $1660_1.0

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	9.394	155004	0.20000	7.750E+05	
PCB016	14.184	39960	0.20000	1.998E+05	
PCB016	15.775	69056	0.20000	3.453E+05	
PCB016	16.461	34543	0.20000	1.727E+05	
PCB016	18.499	34656	0.20000	1.733E+05	
PCB016	19.021	23917	0.20000	1.196E+05	
PCB260	22.534	55274	0.20000	2.764E+05	
PCB260	23.609	120300	0.20000	6.015E+05	
PCB260	24.422	48381	0.20000	2.419E+05	
PCB260	25.491	89061	0.20000	4.453E+05	
PCB260	25.751	48678	0.20000	2.434E+05	
DBUCLE	27.379	240027	0.20000	1.200E+06	

0186

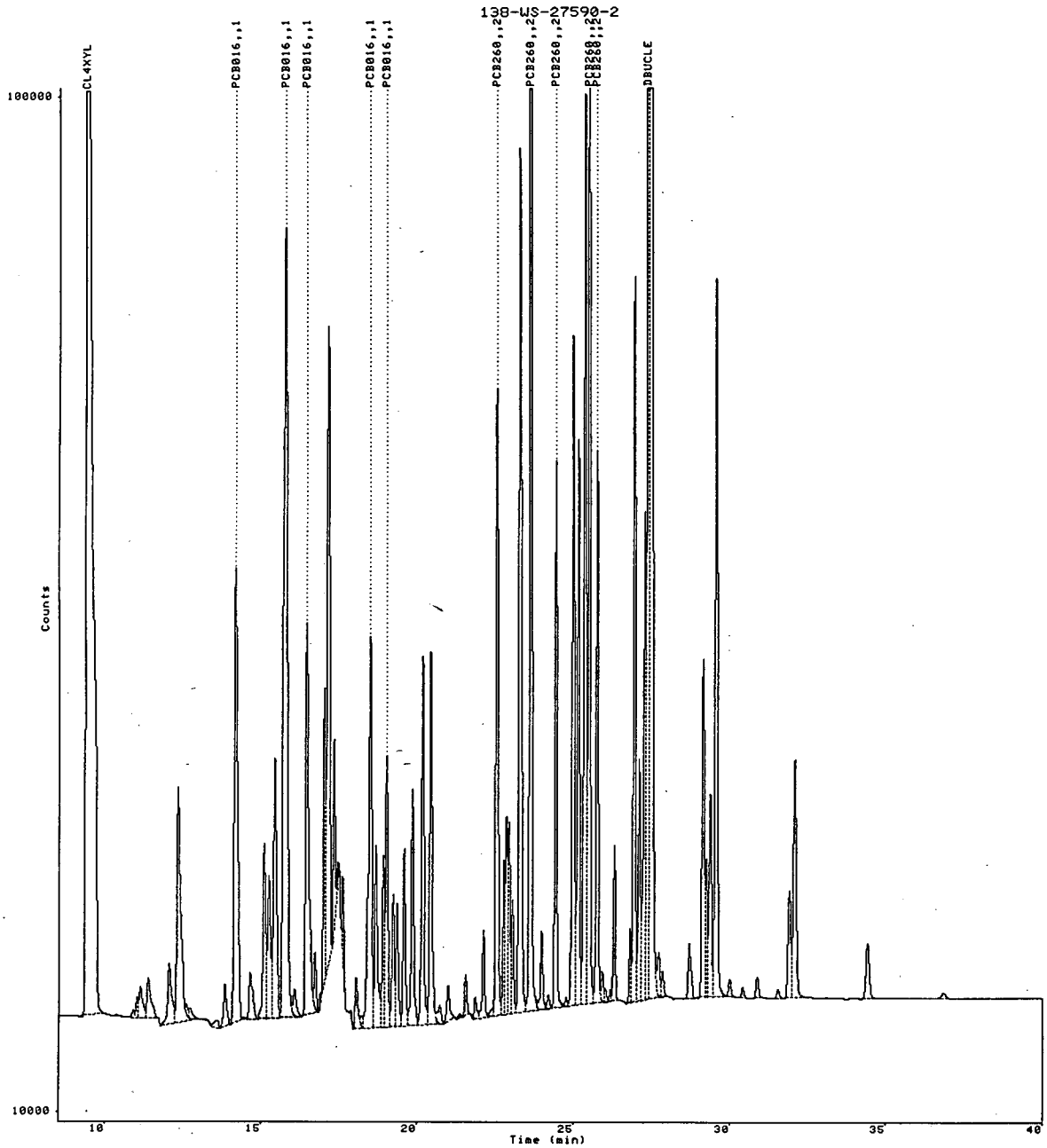
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375	7.750E+05	7.750E+05		1
PCB016	14.183	14.183	1.998E+05	1.998E+05		1
PCB016	15.777	15.777	3.453E+05	3.453E+05		1
PCB016	16.461	16.461	1.727E+05	1.727E+05		1
PCB016	18.497	18.497	1.733E+05	1.733E+05		1
PCB016	19.020	19.020	1.196E+05	1.196E+05		1
PCB260	22.529	22.529	2.764E+05	2.764E+05		1
PCB260	23.607	23.607	6.015E+05	6.015E+05		1
PCB260	24.420	24.420	2.419E+05	2.419E+05		1
PCB260	25.490	25.490	4.453E+05	4.453E+05		1
PCB260	25.756	25.756	2.434E+05	2.434E+05		1
DBUCLE	27.382	27.382	1.200E+06	1.200E+06		1

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316008.RAW;1
Report: 1197249591
Acquired: 12-NOV-1997 18:25:58
Time range: 8.50-40.00



$1660_1.0

0188

Date.....15-NOV-1997 16:14:59.13 User: TAYLORC
Report number.....1197249592
Raw file.....DISK:[TAYLORC]8397316009.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;18
Last method update..15-NOV-1997 16:15:00.41

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 19:09:37
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1660_.20
Notes.....138-WS-27590-3

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....79
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Calib. factors.....Replace Retention times.....Unaltered
Volume injected.....1.00000 (1/x,y) exponent....-1

==========
EXTERNAL STANDARD CALIBRATION
==========
Calibration Sample name: $1660_.20

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	9.396	34765	4.0000E-02	8.691E+05	
PCB016	14.185	10887	4.0000E-02	2.722E+05	
PCB016	15.774	18839	4.0000E-02	4.710E+05	
PCB016	16.463	9448	4.0000E-02	2.362E+05	
PCB016	18.500	9430	4.0000E-02	2.358E+05	
PCB016	19.020	6415	4.0000E-02	1.604E+05	
PCB260	22.534	13992	4.0000E-02	3.498E+05	
PCB260	23.610	30336	4.0000E-02	7.584E+05	
PCB260	24.423	10683	4.0000E-02	2.671E+05	
PCB260	25.492	20407	4.0000E-02	5.102E+05	
PCB260	25.752	10383	4.0000E-02	2.596E+05	
DBUCLE	27.377	51297	4.0000E-02	1.282E+06	

0189

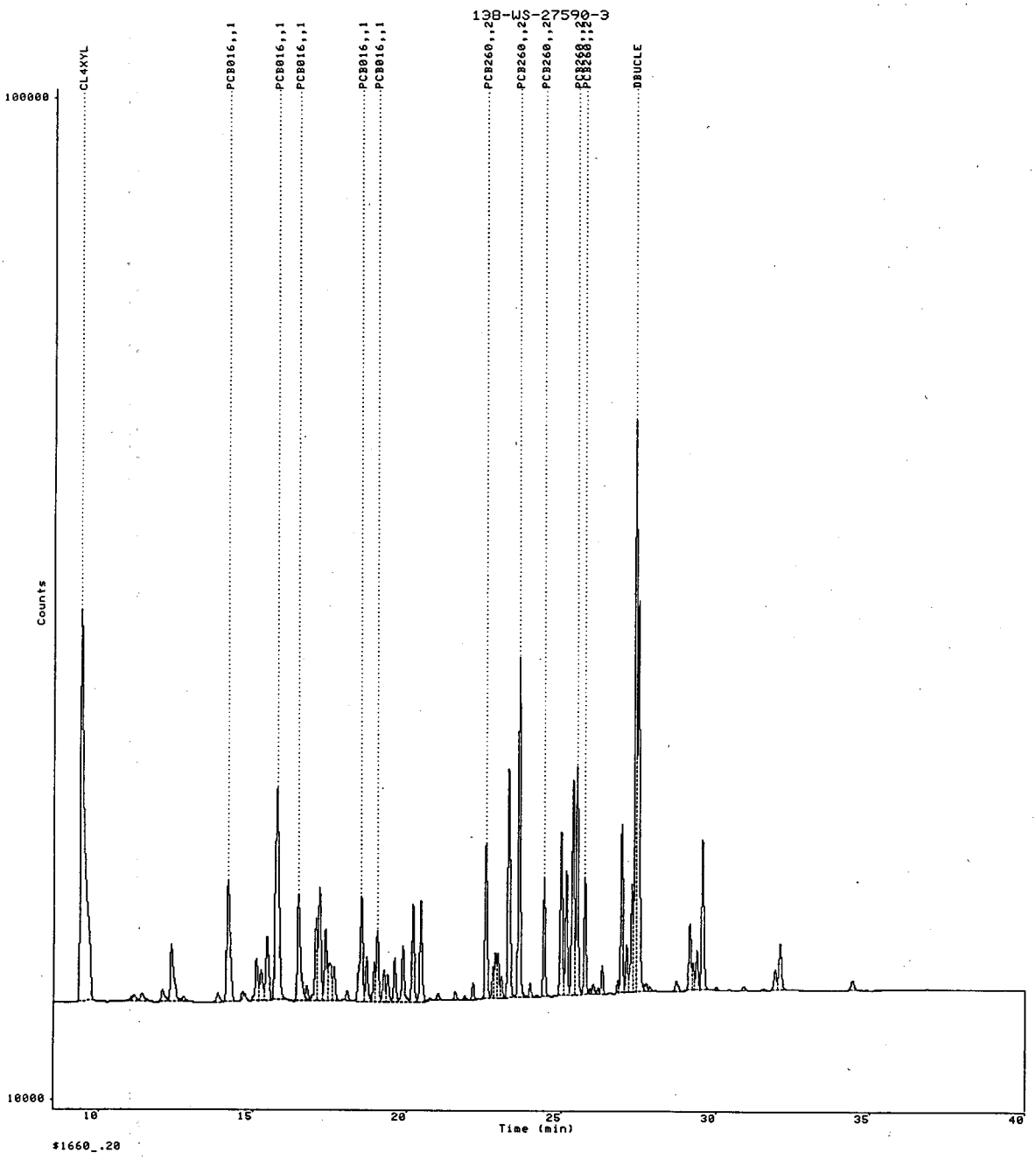
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375	8.691E+05	8.691E+05		1
PCB016	14.183	14.183	2.722E+05	2.722E+05		1
PCB016	15.777	15.777	4.710E+05	4.710E+05		1
PCB016	16.461	16.461	2.362E+05	2.362E+05		1
PCB016	18.497	18.497	2.358E+05	2.358E+05		1
PCB016	19.020	19.020	1.604E+05	1.604E+05		1
PCB260	22.529	22.529	3.498E+05	3.498E+05		1
PCB260	23.607	23.607	7.584E+05	7.584E+05		1
PCB260	24.420	24.420	2.671E+05	2.671E+05		1
PCB260	25.490	25.490	5.102E+05	5.102E+05		1
PCB260	25.756	25.756	2.596E+05	2.596E+05		1
DBUCLE	27.382	27.382	1.282E+06	1.282E+06		1

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316009.RAW;1
Report: 1197249592
Acquired: 12-NOV-1997 19:09:37
Time range: 8.50-40.00



Date.....15-NOV-1997 16:15:03.69 User: TAYLORC
Report number.....1197249593
Raw file.....DISK:[TAYLORC]8397316010.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;19
Last method update..15-NOV-1997 16:15:05.01

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 19:53:15
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1660_.10
Notes.....138-WS-27590-4

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 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.....9.200 min
No. peaks found.....76
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
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

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EXTERNAL STANDARD CALIBRATION

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Calibration Sample name: $1660_.10

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	9.398	17433	2.0000E-02	8.716E+05	
PCB016	14.185	5813	2.0000E-02	2.906E+05	
PCB016	15.774	9968	2.0000E-02	4.984E+05	
PCB016	16.464	4933	2.0000E-02	2.466E+05	
PCB016	18.499	4936	2.0000E-02	2.468E+05	
PCB016	19.019	3215	2.0000E-02	1.608E+05	
PCB260	22.534	7483	2.0000E-02	3.742E+05	
PCB260	23.610	16126	2.0000E-02	8.063E+05	
PCB260	24.423	5554	2.0000E-02	2.777E+05	
PCB260	25.493	10634	2.0000E-02	5.317E+05	
PCB260	25.752	5373	2.0000E-02	2.686E+05	--
DBUCLE	27.379	24502	2.0000E-02	1.225E+06	

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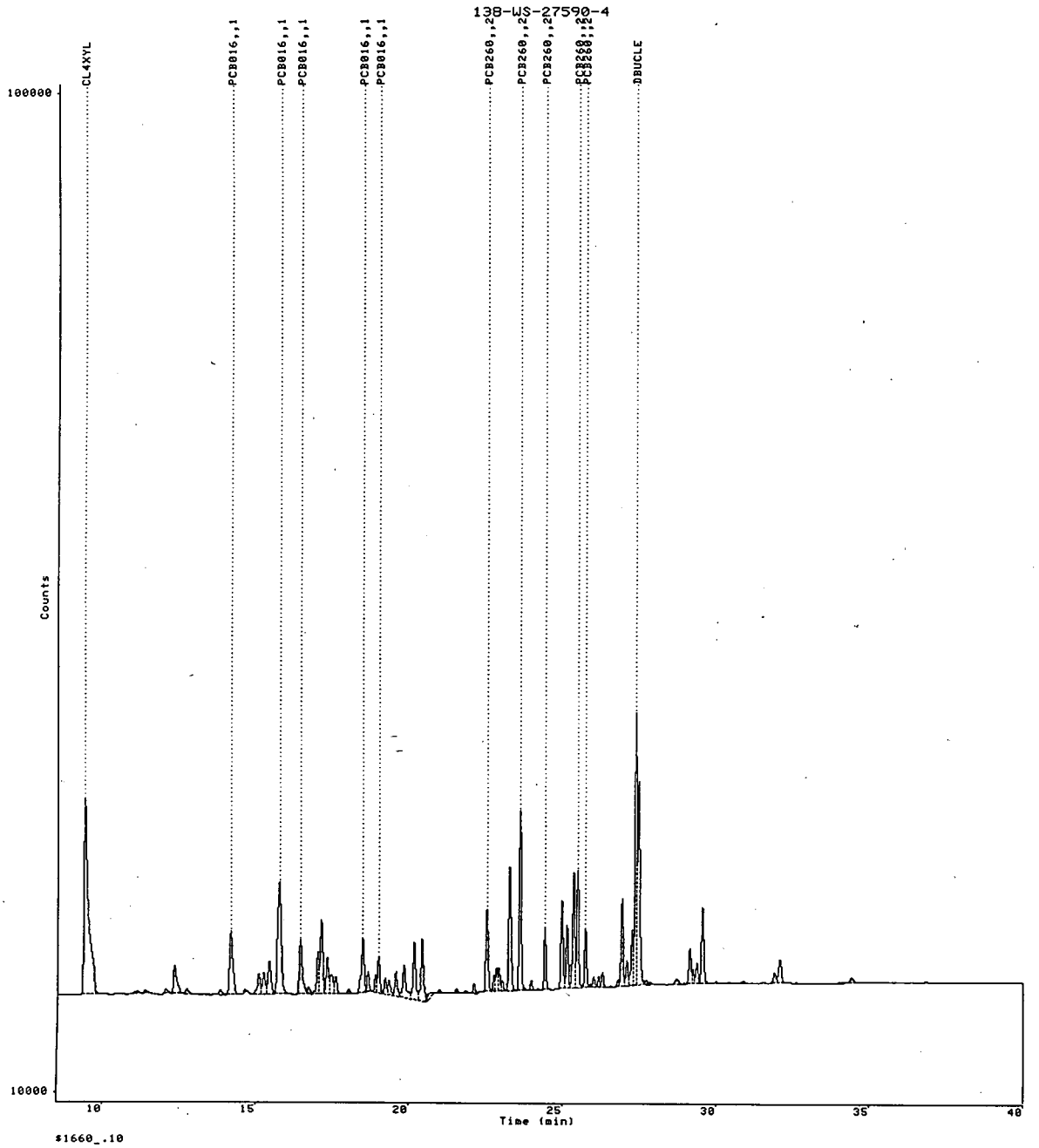
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375	8.716E+05	8.716E+05		1
PCB016	14.183	14.183	2.906E+05	2.906E+05		1
PCB016	15.777	15.777	4.984E+05	4.984E+05		1
PCB016	16.461	16.461	2.466E+05	2.466E+05		1
PCB016	18.497	18.497	2.468E+05	2.468E+05		1
PCB016	19.020	19.020	1.608E+05	1.608E+05		1
PCB260	22.529	22.529	3.742E+05	3.742E+05		1
PCB260	23.607	23.607	8.063E+05	8.063E+05		1
PCB260	24.420	24.420	2.777E+05	2.777E+05		1
PCB260	25.490	25.490	5.317E+05	5.317E+05		1
PCB260	25.756	25.756	2.686E+05	2.686E+05		1
DBUCLE	27.382	27.382	1.225E+06	1.225E+06		1

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316010.RAW;1
Report: 1197249593
Acquired: 12-NOV-1997 19:53:15
Time range: 8.50-40.00



0194

Date.....15-NOV-1997 16:15:08.44 User: TAYLORC
Report number.....1197249594
Raw file.....DISK:[TAYLORC]8397316011.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;20
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 20:36:54
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1660_.02
Notes.....138-WS-27588-1

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.002 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.....9.200 min
No. peaks found.....62
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
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

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EXTERNAL STANDARD CALIBRATION

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Calibration Sample name: $1660_.02

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref	Std
CL4XYL	9.396	3806	4.0000E-03	9.515E+05		
PCB016	14.186	1361	4.0000E-03	3.402E+05		
PCB016	15.773	2297	4.0000E-03	5.742E+05		
PCB016	16.462	1087	4.0000E-03	2.718E+05		
PCB016	18.499	1091	4.0000E-03	2.728E+05		
PCB016	19.018	699	4.0000E-03	1.747E+05		
PCB260	22.535	1710	4.0000E-03	4.275E+05		
PCB260	23.611	3816	4.0000E-03	9.540E+05		
PCB260	24.424	1227	4.0000E-03	3.068E+05		
PCB260	25.493	2279	4.0000E-03	5.698E+05		
PCB260	25.751	1111	4.0000E-03	2.778E+05		
DBUCLE	27.378	4908	4.0000E-03	1.227E+06		

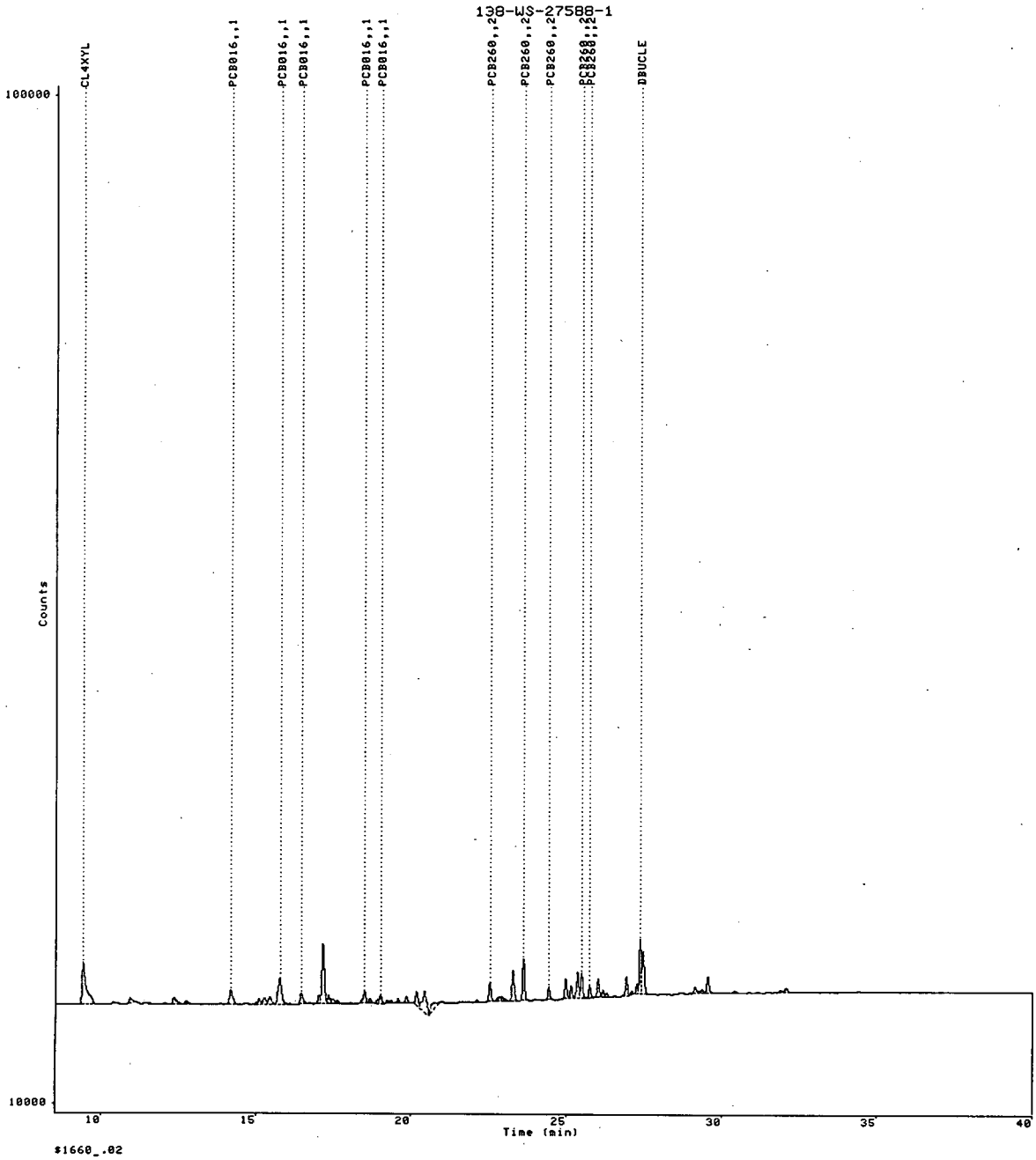
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375	9.515E+05	9.515E+05		1
PCB016	14.183	14.183	3.402E+05	3.402E+05		1
PCB016	15.777	15.777	5.742E+05	5.742E+05		1
PCB016	16.461	16.461	2.718E+05	2.718E+05		1
PCB016	18.497	18.497	2.728E+05	2.728E+05		1
PCB016	19.020	19.020	1.748E+05	1.747E+05		1
PCB260	22.529	22.529	4.275E+05	4.275E+05		1
PCB260	23.607	23.607	9.540E+05	9.540E+05		1
PCB260	24.420	24.420	3.068E+05	3.068E+05		1
PCB260	25.490	25.490	5.698E+05	5.698E+05		1
PCB260	25.756	25.756	2.778E+05	2.778E+05		1
DBUCLE	27.382	27.382	1.227E+06	1.227E+06		1

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316011.RAW;1
Report: 1197249594
Acquired: 12-NOV-1997 20:36:54
Time range: 8.50-40.00



0197

Date.....15-NOV-1997 16:15:19.39 User: TAYLORC
Report number.....1197249596
Raw file.....DISK:[TAYLORC]8397316002.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 14:04:13
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PCB221_2.0
Notes.....138-WS-27569-1

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.002 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.400	-1.50	0.3332	254581		BB	
	10.379			49		BB	
	10.906			3485		BV	
	11.040			5359		VV	
	11.131			6191		VV	
	11.388			19768		VB	
	12.059			16119		BV	
	12.345			45250		VE	
	12.611			6506		EB	
	13.380			161		BB	
	13.796			4636		BV	
PCB016	14.173	0.62	0.04197	10271		VE	1
	14.664			794		EV	
	14.730			746		EV	
	15.030			1747		VV	

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	15.104			2613	VV	
	15.261			2129	VV	
	15.451			4432	VB	
PCB016	15.779	-0.11	0.02418	10557	BB	1
PCB016	16.468	-0.40	0.02628	5634	BB	1
	17.033			4274	BV	
	17.159			7333	VE	
	17.338			1025	EB	
	17.618			278	BB	
	17.920			197	BB	
PCB016	18.496	0.08	0.01065	2607	BV	1
	18.674			592	VB	
	18.921			514	BV	
PCB016	19.024	-0.25	6.410E-03	1143	VV	1
	19.231			416	VV	
	19.361			1152	VV	
	19.584			2938	VV	
	19.843			2418	VV	
	20.172			3726	VV	
	20.429			4134	VB	
	20.733			1609	BV	
	21.000			1682	VB	
	21.553			1306	BB	
	21.859			1131	BB	
	22.121			2092	BB	
	22.402			732	BV	
PCB260	22.562	-1.96	0.01195	4407	VE	2
	22.845			433	EV	
	22.929			385	EV	
	23.042			2868	VV	
	23.272			1869	VB	
PCB260	23.613	-0.35	9.445E-04-	2149	BB	2
	23.978			167	BB	
PCB260	24.425	-0.31	1.113E-03-	561	BB	2
	24.770			960	BV	
	24.958			1497	VV	
	25.151			669	VV	
	25.369			1912	VE	
PCB260	25.493	-0.20	-4.910E-05-	421	EB	2
PCB260	25.758	-0.14	4.575E-04-	222	BB	2
	26.026			1320	BV	
	26.184			435	VB	
	26.517			71	BB	
	26.941			317	BB	
	27.102			369	BV	
	27.198			166	VV	
DBUCLE	27.380	0.11	0.3270	378614	VB	
	29.148			82	BB	
	29.567			230	BB	

GROUP REPORT

Group	UG/SAMPLE
1	0.1095
2	1.441E-02

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ANALYSIS NOTES

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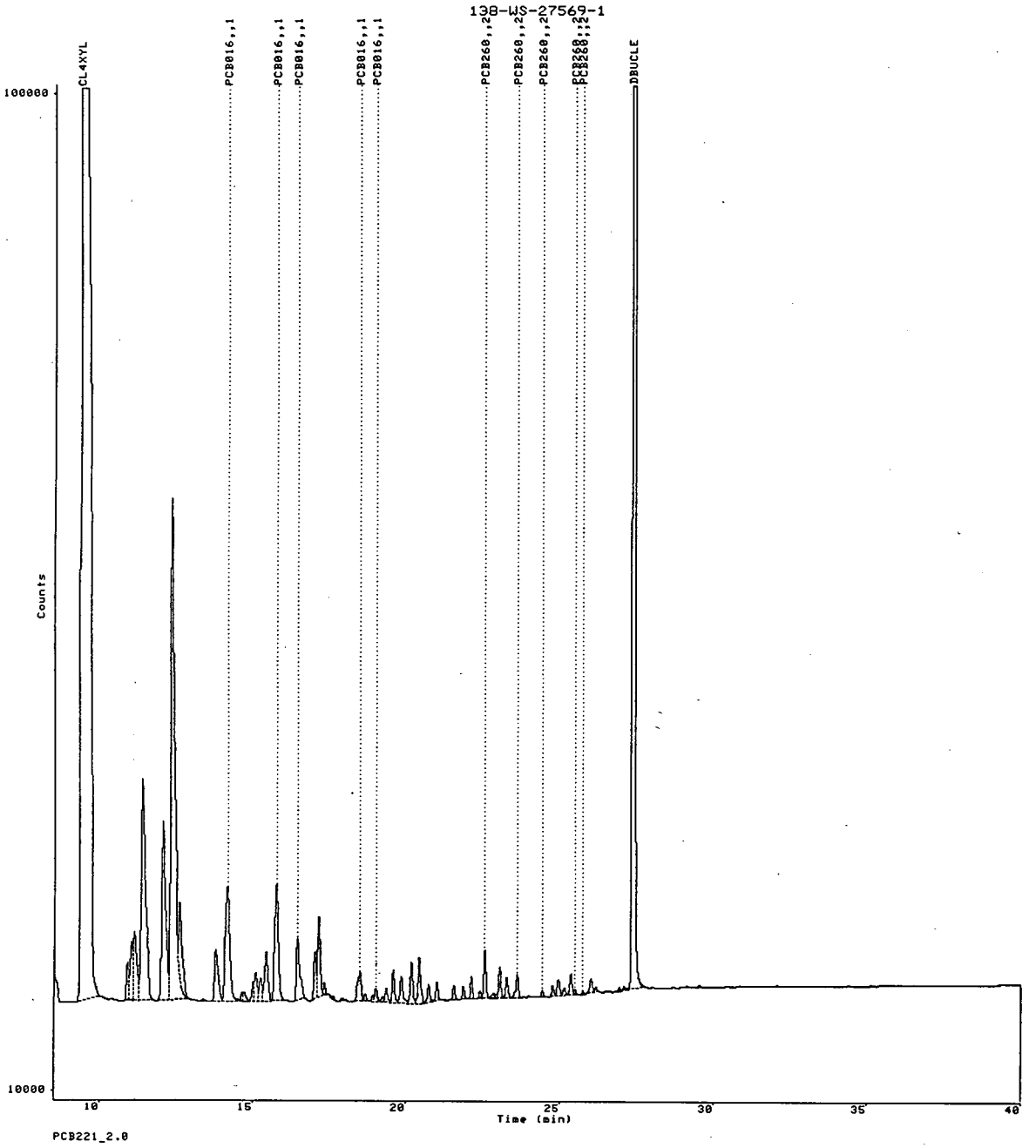
1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)
--------------------------------------------------------------------------------
```

Data file: DISK:[TAYLORC]8397316002.RAW;1
Report: 1197249596
Acquired: 12-NOV-1997 14:04:13
Time range: 8.50-40.00



0201

Date.....15-NOV-1997 16:15:24.13 User: TAYLORC
Report number.....1197249597
Raw file.....DISK:[TAYLORC]8397316003.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 14:47:50
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PCB232_2.0
Notes.....138-WS-27570-1

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
length.....30 M
diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....74
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.398	-1.37	0.6210 +	442438		BB	
	10.378			126		BB	
	10.906			3642		BV	
	11.040			6419		VV	
	11.136			9671		VV	
	11.386			20660		VB	
	12.057			18572		BV	
	12.343			60550		VE	
	12.608			5881		EB	
	13.379			134		BB	
	13.850			6845		BV	
PCB016	14.186	-0.16	0.3029	58250		VV	
	14.664			6536		VV	
	15.109			24305		VV	
	15.255			16427		VV	

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	15.453			33504	VV	
PCB016	15.776	0.07	0.2988	103094	VV	1
PCB016	16.464	-0.16	0.3041	52502	VE	1
	16.737			6803	EV	
	16.922			3506	EV	
	17.030			45997	VV	
	17.131			35405	VV	
	17.338			31647	VV	
	17.472			17854	VV	
	17.615			15938	VE	
	17.916			1032	EV	
	18.048			5388	VB	
PCB016	18.500	-0.20	0.2847	49010	BV	1
	18.673			22043	VE	
	18.798			2929	EV	
	18.919			20011	VV	
PCB016	19.021	-0.03	0.2813	34661	VV	1
	19.231			16812	VV	
	19.358			29753	VV	
	19.581			51300	VV	
	19.841			61285	VV	
	20.170			12795	VV	
	20.431			13395	VV	
	20.733			7958	VV	
	20.997			53287	VV	
	21.555			7647	VV	
	21.858			7112	VV	
	22.120			9873	VV	
	22.403			9651	VV	
PCB260	22.562	-1.99	0.05212	16692	VE	2
	22.808			1711	EV	
	23.040			12343	VV	
	23.271			3645	VV	
	23.527			5016	VV	
PCB260	23.610	-0.20	4.902E-03	4847	VV	2
	23.831			770	VV	
	24.017			365	VB	
PCB260	24.425	-0.32	4.360E-03	1386	BB	2
	24.769			7735	BV	
	24.964			2872	VV	
	25.151			1510	VV	
	25.366			3219	VV	
PCB260	25.494	-0.24	4.266E-03	2541	VB	2
PCB260	25.754	0.12	4.169E-03	1181	BB	2
	26.020			1212	BB	
	26.186			2808	BB	
	26.506			134	BB	
	26.823			214	BV	
	26.943			1922	VV	
	27.103			767	VV	
DBUCLE	27.381	0.05	0.5909 +	628219	VE	
	28.025			213	EB	
	28.712			59	BB	
	29.150			830	BV	
	29.255			315	VV	
	29.384			476	VV	
	29.567			1725	VB	
	31.927			227	BV	
	32.093			605	VB	

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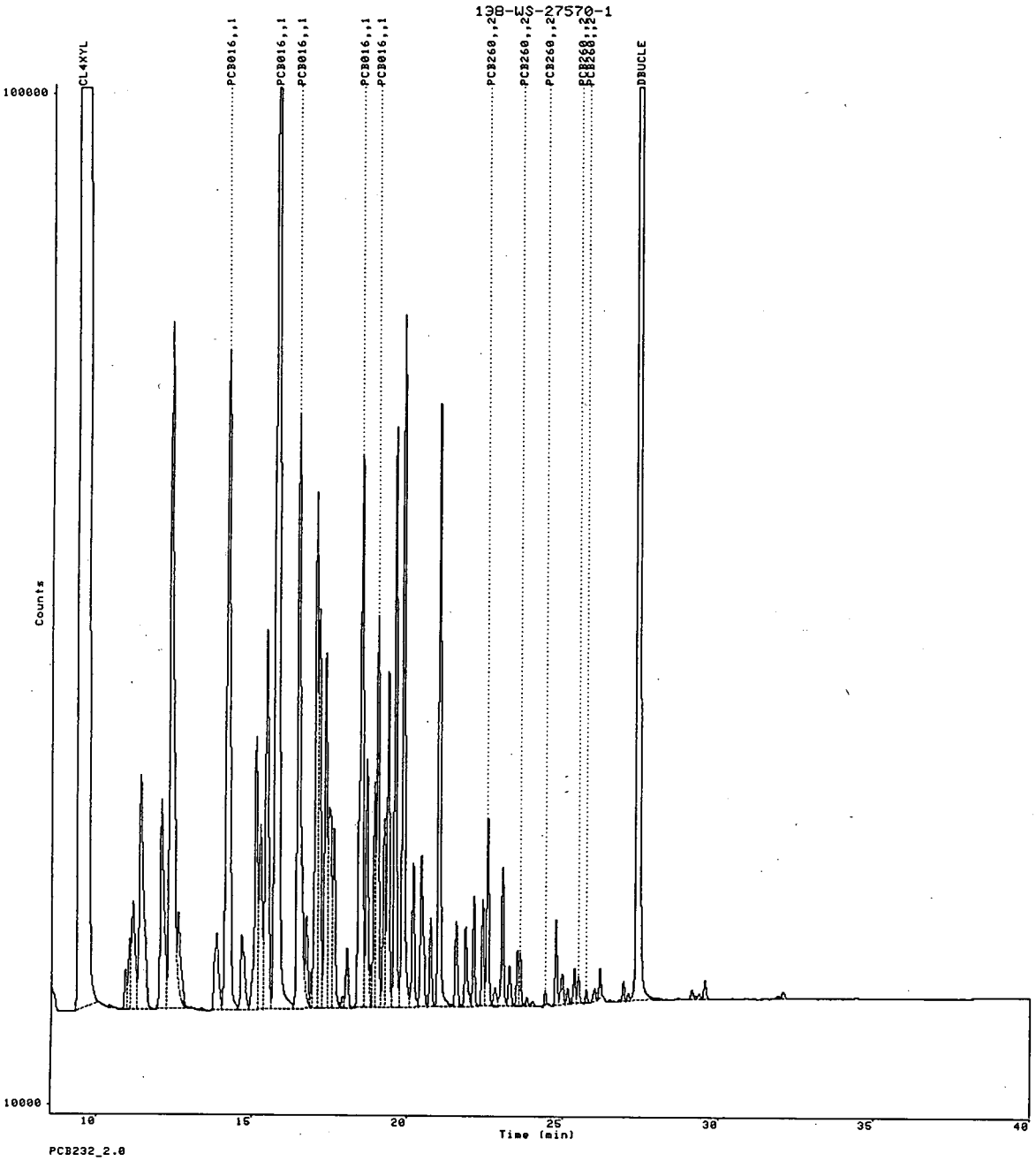
GROUP REPORT

Group	UG/SAMPLE
1	1.472
2	6.982E-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]8397316003.RAW;1
Report: 1197249597
Acquired: 12-NOV-1997 14:47:50
Time range: 8.50-40.00



0205

Date.....15-NOV-1997 16:15:28.83 User: TAYLORC
Report number.....1197249598
Raw file.....DISK:[TAYLORC]8397316004.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 15:31:27
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PCB242_2.0
Notes.....138-WS-27571-1

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.002 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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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	9.395	-1.18	0.3751	283679		BB	
	10.377			64		BB	
	10.905			1243		BV	
	11.040			3274		VV	
	11.135			5477		VV	
	11.386			6470		VB	
	12.056			8528		BV	
	12.342			33229		VE	
	12.603			1378		EB	
	13.859			5653		BV	
PCB016	14.185	-0.10	0.3158	60089		VV	
	14.660			6795		VV	
	15.108			25801		VV	
	15.252			17628		VV	
	15.451			35710		VV	

PCB016	15.773	0.24	0.3227	109888	VV	1
PCB016	16.462	-0.06	0.3317	56425	VE	1
	16.737			7627	EV	
	16.921			3977	EV	
	17.028			49787	VV	
	17.132			39715	VV	
	17.337			36047	VV	
	17.460			20310	VV	
	17.493			20651	VV	
	17.613			18789	VE	
	17.915			1127	EV	
	18.047			6030	VB	
PCB016	18.499	-0.12	0.3263	54594	BV	1
	18.672			24555	VE	
	18.797			3586	EV	
	18.917			22361	VV	
PCB016	19.019	0.04	0.3357	40639	VV	1
	19.230			19822	VV	
	19.356			36028	VV	
	19.579			60151	VV	
	19.839			71212	VV	
	20.169			15951	VV	
	20.431			17361	VV	
	20.732			11296	VV	
	20.997			64352	VV	
	21.554			10235	VV	
	21.858			10207	VV	
	22.120			14040	VV	
	22.402			13521	VV	
PCB260	22.563	-2.02	0.07392	23129	VE	2
	22.807			2532	EV	
	23.040			20107	VE	
	23.270			2243	EV	
	23.525			7420	VV	
PCB260	23.605	0.11	2.096E-03-	2935	VV	2
	23.831			1467	VV	
	24.025			609	VE	
	24.197			89	EB	
PCB260	24.427	-0.41	2.132E-03-	820	BB	2
	24.769			13443	BE	
	24.958			2084	EV	
	25.151			967	VV	
	25.366			2786	VV	
PCB260	25.492	-0.11	5.362E-04-	709	VB	2
PCB260	25.761	-0.29	7.591E-04-	300	BB	2
	26.022			1041	BV	
	26.184			851	VB	
	26.514			87	BB	
	26.940			414	BB	
	27.100			749	BV	
	27.198			425	VV	
DBUCLE	27.379	0.18	0.3742	427014	VB	
	28.030			61	BB	
	29.148			145	BB	
	29.568			277	BB	

GROUP REPORT

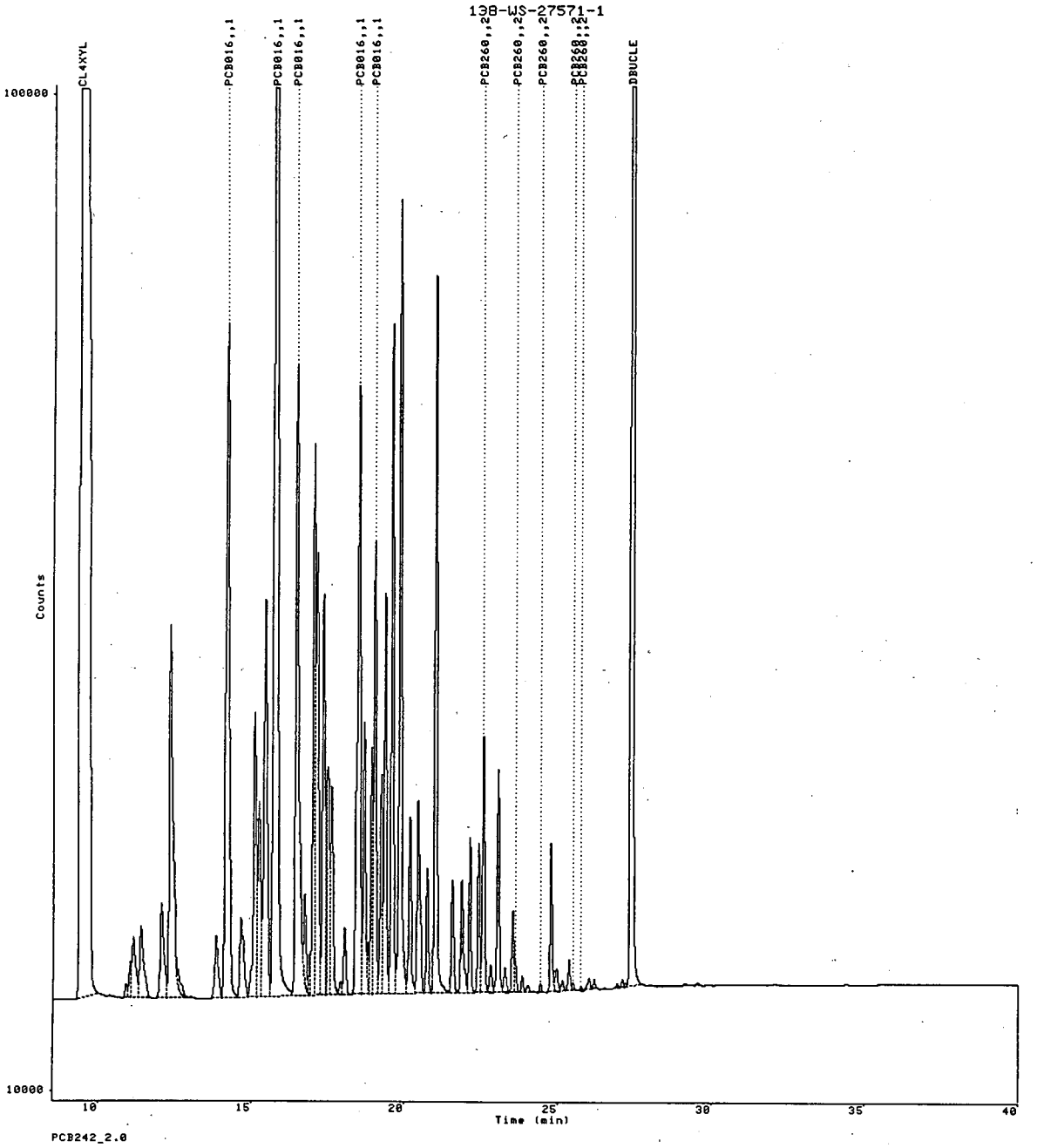
Group UG/SAMPLE

1	1.632
2	7.945E-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]8397316004.RAW;1
Report: 1197249598
Acquired: 12-NOV-1997 15:31:27
Time range: 8.50-40.00



Date.....15-NOV-1997 16:15:33.83 User: TAYLORC
Report number.....1197249599
Raw file.....DISK:[TAYLORC]8397316005.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 16:15:09
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PCB248_2.0
Notes.....138-WS-27572-1

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.393	-1.11	0.4306 +	321395		BB	
	10.377			221		BB	
	10.913			43		BB	
	11.139			4726		BB	
	12.004			639		BB	
	12.343			3186		BB	
	12.739			150		BB	
	13.317			18457		BB	
	13.857			1797		BB	
PCB016	14.182	0.05	0.1734	37027		BV	1
	14.659			2326		VB	
	15.108			18268		BV	
	15.255			8153		VV	
	15.453			15597		VV	
PCB016	15.773	0.24	0.2998	103370		VV	1

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PCB016	16.462	-0.05	0.2024	36922	VV	1
	16.737			13067	VV	
	16.917			5755	VV	
	17.026			33934	VV	
	17.135			64621	VV	
	17.335			59038	VV	
	17.455			38230	VV	
	17.614			27221	VV	
	18.046			8459	VV	
PCB016	18.499	-0.09	0.6676 +	85867	VV	1
	18.671			38996	VE	
	18.794			3250	EV	
	18.916			39878	VV	
PCB016	19.018	0.15	0.6690 +	72533	VV	1
	19.228			27992	VV	
	19.355			74934	VV	
	19.579			110953	VV	
	19.836			133610	VV	
	20.168			33601	VV	
	20.425			36248	VV	
	20.503			16662	VV	
	20.730			30230	VV	
	20.995			122910	VV	
	21.551			21657	VV	
	21.857			23162	VV	
	22.118			32640	VV	
	22.400			32975	VV	
PCB260	22.561	-1.90	0.2025	57794	VE	2
	22.805			6489	EV	
	23.037			54899	VE	
	23.268			8756	EV	
	23.523			17912	VV	
PCB260	23.607	-0.03	0.01885	14268	VV	2
	23.830			4154	VV	
	24.022			1657	VE	
	24.197			290	EB	
PCB260	24.424	-0.22	0.01448	3950	BB	2
	24.766			39048	BE	
	24.969			6872	EV	
	25.149			4976	VV	
	25.365			12346	VV	
PCB260	25.492	-0.14	0.01073	5704	VV	2
PCB260	25.754	0.09	0.01285	3417	VV	2
	25.936			1024	VV	
	26.020			1341	VV	
	26.183			1022	VV	
	26.307			774	VB	
	26.510			100	BB	
	26.821			269	BV	
	26.941			4466	VV	
	27.100			3337	VV	
	27.200			1817	VV	
DBUCLE	27.378	0.26	0.4282 +	480290	VE	
	27.732			382	EB	
	28.025			59	BB	
	28.717			251	BB	
	29.147			2270	BV	
	29.254			1211	VV	
	29.383			1552	VV	
	29.565			6589	VB	

30.010	153	BB
30.433	369	BB
31.927	1019	BV
32.090	2806	VB
34.424	398	BB

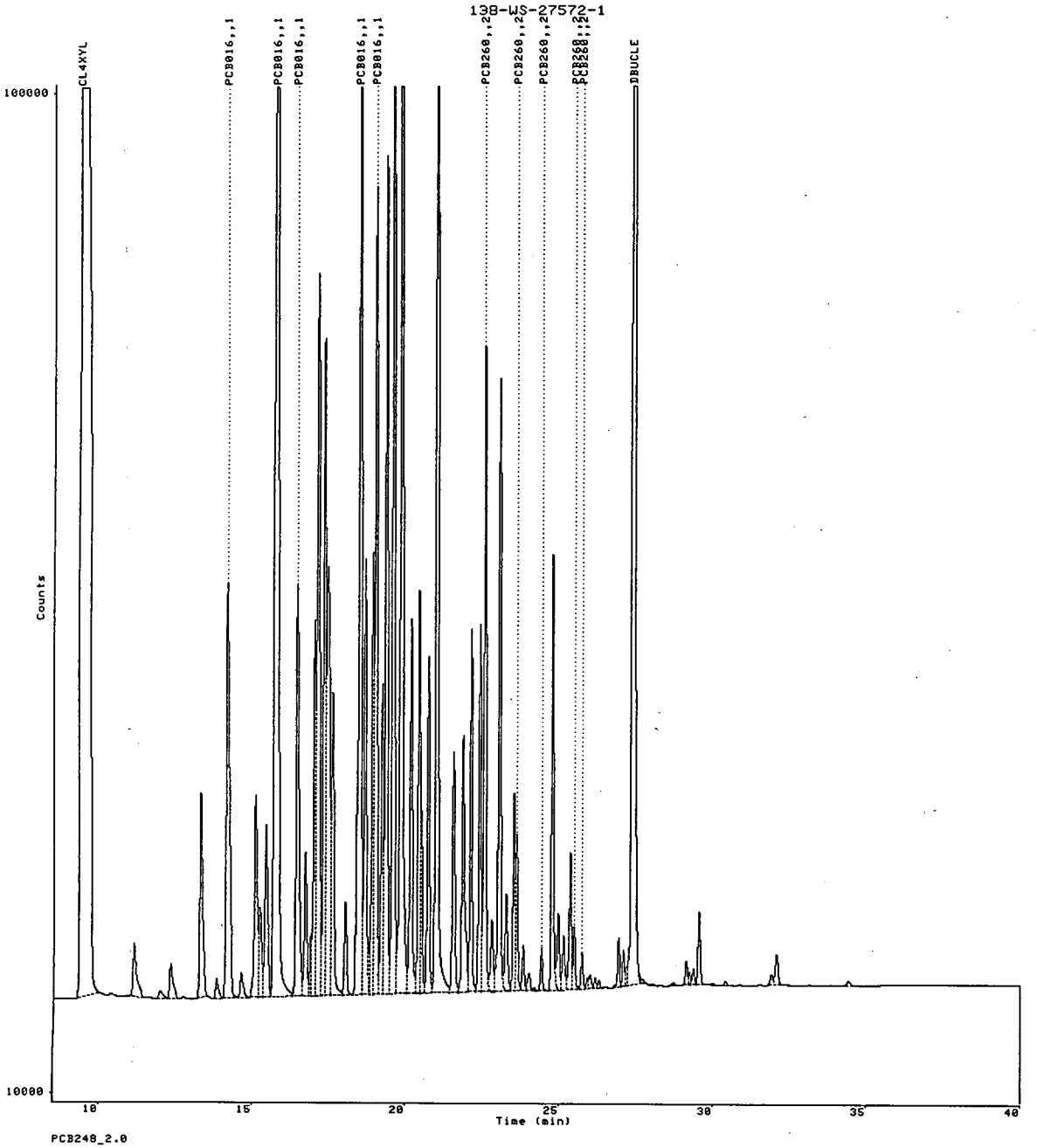
GROUP REPORT

Group	UG/SAMPLE
1	2.012
2	0.2594

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316005.RAW;1
Report: 1197249599
Acquired: 12-NOV-1997 16:15:09
Time range: 8.50-40.00



0213

Date.....15-NOV-1997 16:15:38.09 User: TAYLORC
Report number.....1197249600
Raw file.....DISK:[TAYLORC]8397316006.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 16:58:47
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PCB254_2.0
Notes.....138-WS-27591-1

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.002 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....86
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.394	-1.13	0.4168 +	312126		BB	
	10.375			149		BB	
	10.916			67		BB	
	11.139			4503		BB	
	12.012			1011		BV	
	12.347			857		VB	
	12.738			316		BB	
	13.594			504		BB	
	13.839			520		BV	
PCB016	14.187	-0.26	6.241E-03	2093		VB	
	14.651			171		BB	
	14.780			39		BB	
	15.036			623		BB	
	15.282			2344		BV	
	15.452			916		VB	

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PCB016	15.751	1.57	6.180E-03	3562	BE	1
	16.109			256	EB	
PCB016	16.468	-0.44	2.357E-03-	964	BB	1
	16.737			1861	BB	
	16.904			111	BB	
	17.141			80395	BV	
	17.335			21978	VE	
	17.611			1425	EB	
	18.064			924	BB	
PCB016	18.499	-0.11	0.2532	44521	BE	1
	18.686			5725	EV	
	18.916			5157	VV	
PCB016	19.022	-0.12	0.1299	16884	VE	1
	19.206			1738	EV	
	19.357			19976	VV	
	19.578			68899	VV	
	19.838			29172	VE	
	19.951			2801	EV	
	20.165			111957	VV	
	20.424			124590	VV	
	20.729			62413	VV	
	20.994			20610	VE	
	21.366			462	EB	
	21.549			53469	BV	
	21.855			56112	VE	
	21.971			5347	EV	
	22.117			103188	VV	
	22.397			40956	VV	
PCB260	22.558	-1.74		199121	VE	2
	22.815			26233	EV	
	22.929			17929	VV	
	23.036			177743	VV	
	23.268			69464	VV	
	23.526			32444	VV	
PCB260	23.608	-0.06	0.1673	106095	VE	2
	23.831			8308	EV	
	23.976			12606	EV	
	24.199			4923	VV	
PCB260	24.421	-0.08	0.1433	35686	VV	2
	24.765			87271	VV	
	24.963			55243	VV	
	25.148			49705	VV	
	25.364			127001	VE	
PCB260	25.487	0.16	0.01949	9960	EV	2
PCB260	25.770	-0.87	0.05599	14361	VV	2
	25.928			14714	VE	
	26.028			1638	EV	
	26.174			854	EV	
	26.307			1320	VV	
	26.505			97	VB	
	26.820			587	BV	
	26.940			10877	VV	
	27.097			42134	VV	
	27.197			29762	VV	
DBUCLE	27.377	0.29	0.4130 +	465538	VE	
	27.613			5944	EV	
	27.724			2490	EV	
	27.855			1075	VV	
	28.061			521	VB	
	28.385			152	BB	

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28.713	248	BB
28.950	66	BB
29.147	1525	BV
29.255	2075	VV
29.379	845	VV
29.564	12965	VB
30.012	429	BB
30.430	128	BB
31.924	347	BV
32.088	756	VB
34.422	121	BB

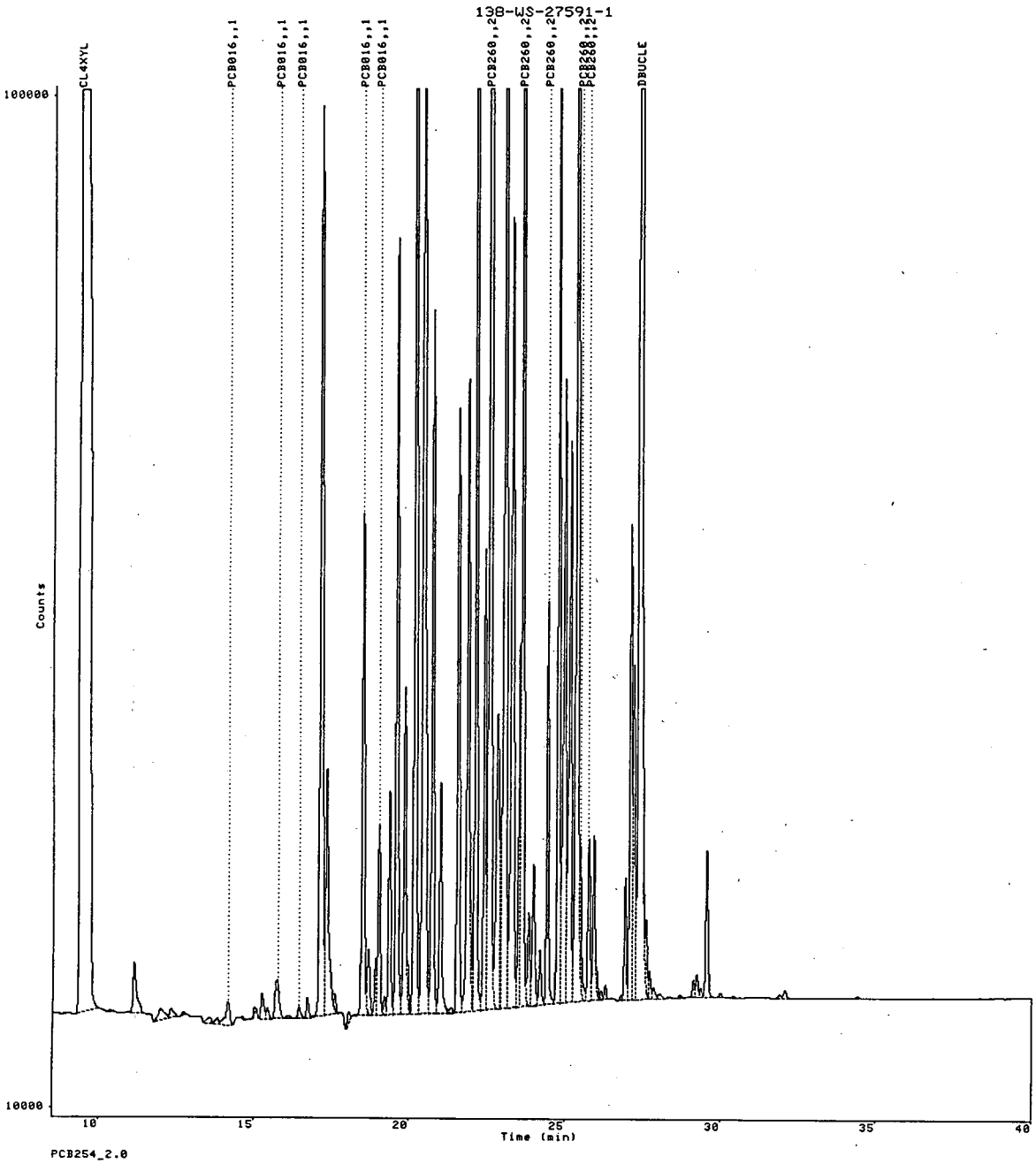
GROUP REPORT

Group	UG/SAMPLE
1	0.3978
2	0.3861

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316006.RAW;1
Report: 1197249600
Acquired: 12-NOV-1997 16:58:47
Time range: 8.50-40.00



0217

Date.....15-NOV-1997 16:15:42.51 User: TAYLORC
Report number.....1197249601
Raw file.....DISK:[TAYLORC]8397316012.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 21:20:29
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....ICV_1660_1.0
Notes.....138-WS-27589-1

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....89
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.393	-1.06	0.2127	167279		BB	
	10.373			92		BB	
	10.900			624		BV	
	11.037			1863		VV	
	11.133			2898		VV	
	11.384			3565		VB	
	12.053			5173		BV	
	12.339			21077		VE	
	12.600			692		EV	
	12.728			748		EB	
	13.600			217		BB	
	13.854			3799		BV	
PCB016	14.182	0.05	0.2017	42106		VB	1
	14.659			4677		BB	
	15.106			16817		BV	

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	15.255			12365	VV	
	15.448			23555	VV	
PCB016	15.772	0.30	0.2030	73834	VB	1
	16.218			234	BB	
PCB016	16.460	0.07	0.2047	37297	BE	1
	16.734			5576	EV	
	16.917			2807	EV	
	17.030			33623	VV	
	17.141			49588	VV	
	17.334			26679	VV	
	17.465			14980	VV	
	17.612			14190	VE	
	17.890			836	EB	
	18.047			4257	BB	
PCB016	18.497	0.01	0.1988	36258	BV	1
	18.669			15455	VV	
	18.916			14101	VV	
PCB016	19.018	0.12	0.1875	23845	VV	1
	19.231			11205	VV	
	19.354			5328	VV	
	19.470			3434	VV	
	19.579			8225	VV	
	19.843			13368	VB	
	20.168			33112	BV	
	20.424			36964	VE	
	20.727			947	EV	
	20.950			3869	VB	
	21.341			225	BB	
	21.548			2989	BB	
	21.906			3327	BV	
	22.117			8195	VV	
	22.209			2420	VE	
	22.400			212	EV	
PCB260	22.532	-0.19	0.2199	62043	VV	2
	22.767			15246	VV	
	22.848			19372	VV	
	22.922			18576	VV	
	23.035			11113	VV	
	23.265			84870	VV	
PCB260	23.607	0.00	0.2206	135297	VE	2
	23.973			7167	EV	
	24.195			2231	EB	
PCB260	24.422	-0.09	0.2253	55025	BE	2
	24.766			742	EV	
	24.975			65397	VV	
	25.146			56452	VV	
	25.359			91888	VV	
PCB260	25.490	0.00	0.2220	99388	VV	2
PCB260	25.750	0.37	0.2282	55331	VE	2
	25.929			3090	EV	
	26.018			1864	EV	
	26.179			1811	VV	
	26.306			16541	VB	
	26.817			7469	BV	
	26.937			73899	VV	
	27.099			24548	VV	
	27.272			48760	VV	
DBUCLE	27.377	0.32	0.2227	266211	VV	
	27.470			176475	VE	
	27.734			3603	EV	

27.857	2554	EB
28.716	5521	BB
29.145	34685	BV
29.251	14283	VV
29.380	20474	VV
29.561	73191	VE
30.010	1791	EB
30.432	114	BB
30.901	2262	BB
31.565	983	BB
31.923	11000	BV
32.087	23876	VB
34.423	6365	BB
36.838	92361	BB

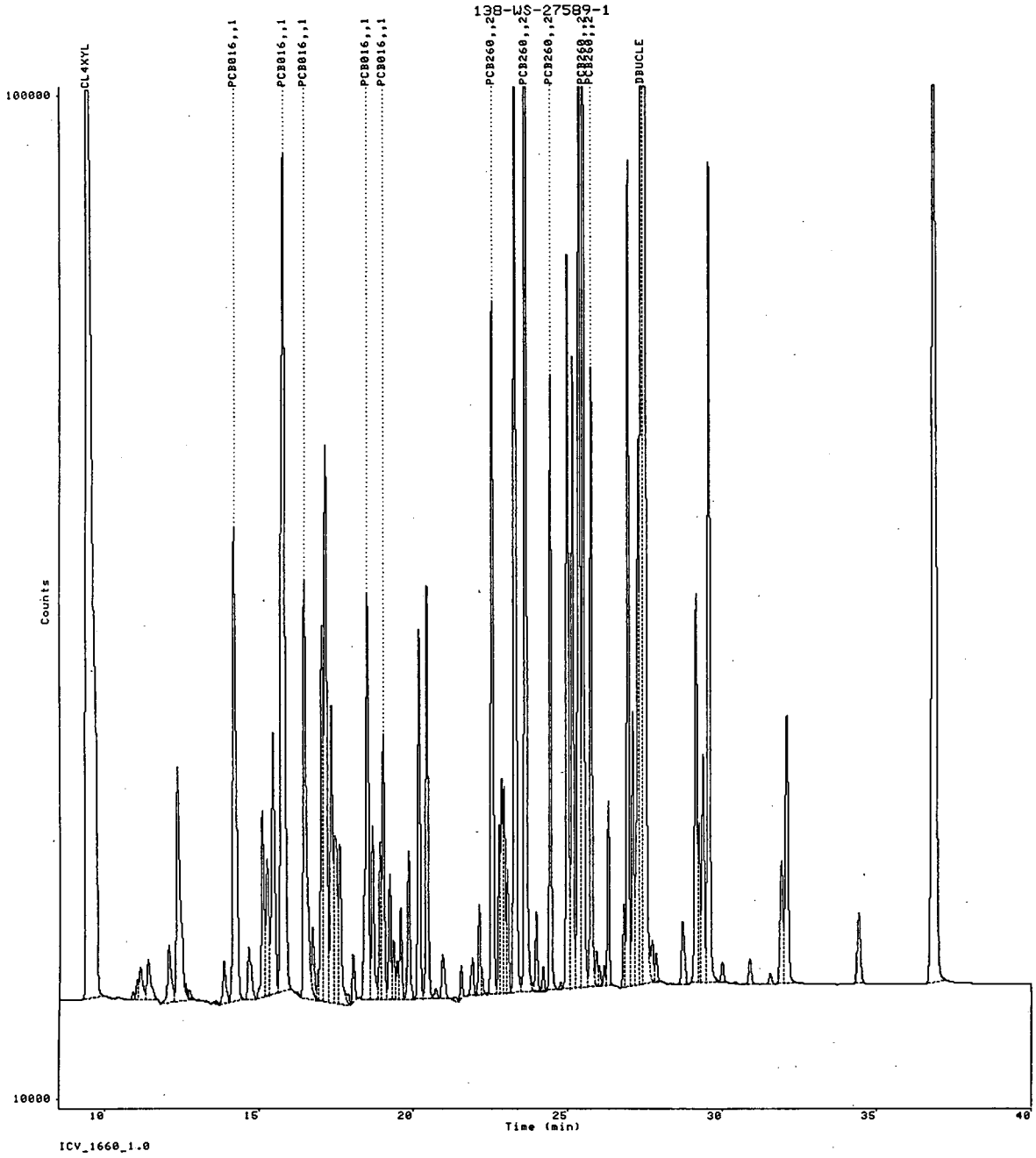
GROUP REPORT

Group	UG/SAMPLE
1	0.9957
2	1.116

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316012.RAW;1
Report: 1197249601
Acquired: 12-NOV-1997 21:20:29
Time range: 8.50-40.00



0221

Date.....15-NOV-1997 16:16:36.15 User: TAYLORC
Report number.....1197249612
Raw file.....DISK:[TAYLORC]8397316023.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 21:28:46
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....92
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.401	-1.56	0.2073	163197		BB	
	10.377			87		BB	
	10.906			689		BV	
	11.040			1981		VV	
	11.139			2905		VV	
	11.389			3779		VB	
	12.059			5792		BV	
	12.345			21872		VE	
	12.610			875		EV	
	12.738			1859		EB	
	13.594			645		BB	
	13.857			3980		BB	
PCB016	14.188	-0.30	0.2003	41859		BE	1
	14.456			128		EB	
	14.664			4410		BV	

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	15.111			16434	VV	
	15.267			14373	VV	
	15.453			24380	VV	
PCB016	15.778	-0.04	0.2013	73295	VE	1
	16.086			3042	EV	
PCB016	16.466	-0.30	0.2064	37564	VE	1
	16.740			5606	EV	
	16.920			3065	EV	
	17.030			32000	VV	
	17.148			63873	VV	
	17.339			26745	VV	
	17.461			15210	VV	
	17.494			15319	VV	
	17.615			13702	VE	
	17.891			1392	EB	
	18.054			4751	BE	
	18.262			1012	EV	
PCB016	18.501	-0.23	0.1962	35853	VV	1
	18.677			16368	VE	
	18.796			1905	EV	
	18.920			16153	VV	
PCB016	19.024	-0.27	0.1974	25024	VV	1
	19.232			12230	VV	
	19.361			11286	VV	
	19.584			16628	VV	
	19.845			21536	VV	
	20.172			33606	VV	
	20.429			34045	VE	
	20.731			1626	EB	
	20.999			3317	BB	
	21.395			251	BV	
	21.552			3832	VB	
	21.863			2044	BV	
	22.120			8039	VE	
	22.402			853	EV	
PCB260	22.537	-0.47	0.1970	56424	VV	2
	22.770			14155	VV	
	22.851			18114	VV	
	22.925			17287	VV	
	23.041			10825	VV	
	23.270			77396	VV	
PCB260	23.611	-0.23	0.1986	123498	VE	2
	23.977			6926	EV	
	24.202			1374	EV	
PCB260	24.425	-0.32	0.2003	49199	VE	2
	24.772			1127	EV	
	24.978			58649	VV	
	25.151			50538	VV	
	25.364			82021	VV	
PCB260	25.494	-0.26	0.1911	86828	VV	2
PCB260	25.754	0.09	0.1960	48013	VE	2
	25.930			2908	EV	
	26.024			1915	EV	
	26.182			1302	VV	
	26.309			13647	VB	
	26.820			6363	BV	
	26.941			63827	VV	
	27.103			20997	VV	
	27.276			43093	VV	
DBUCLE	27.380	0.14	0.2034	244494	VV	

27.473	154191	VE
27.737	3280	EV
27.859	2218	EB
28.298	100	BB
28.718	4633	BB
29.147	28371	BV
29.255	11812	VV
29.384	17106	VV
29.565	61531	VE
30.016	1435	EB
30.436	696	BB
30.904	1771	BB
31.567	668	BB
31.928	8935	BV
32.092	18707	VB
34.427	4696	BB
36.854	427	BB

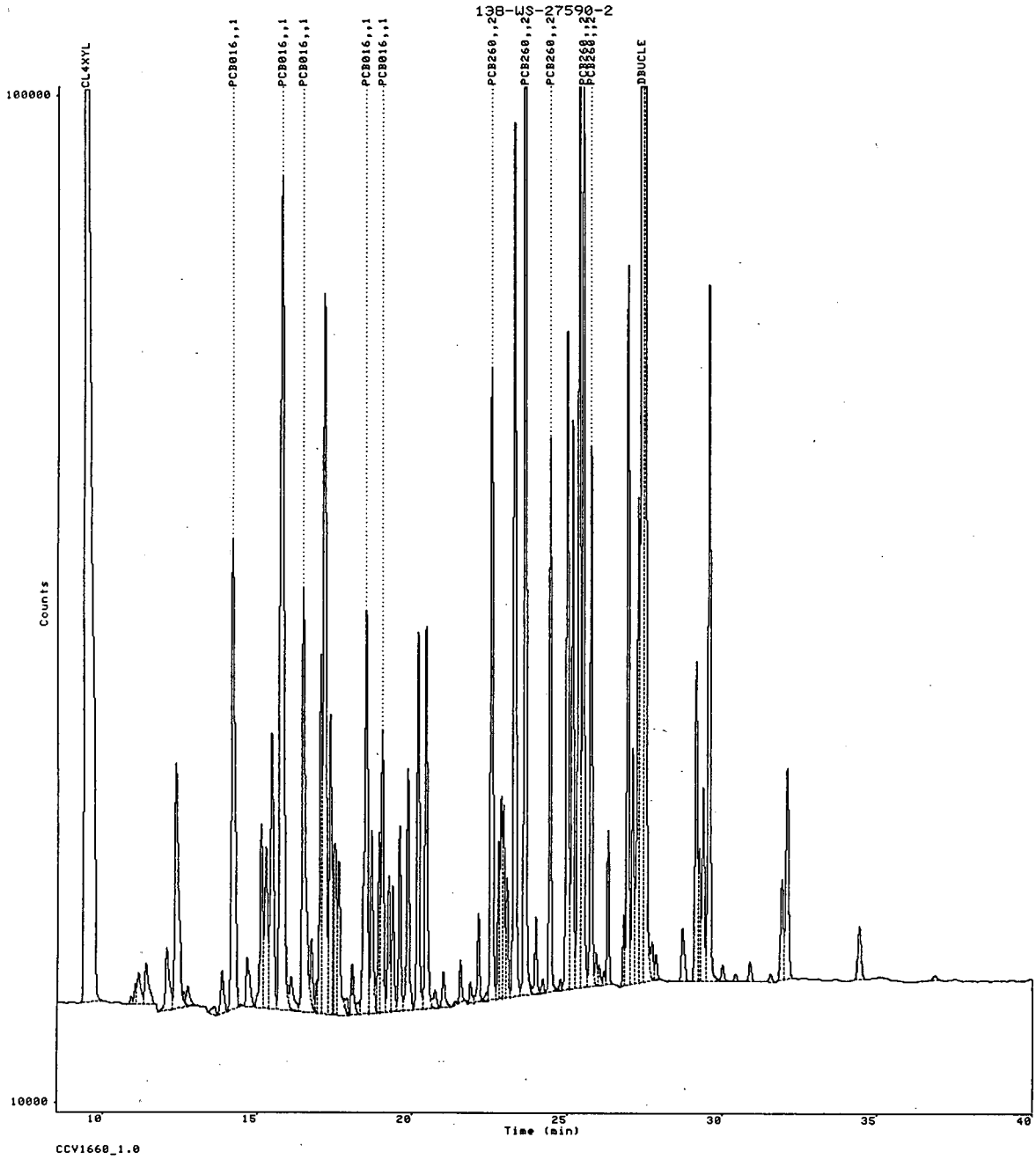
GROUP REPORT

Group	UG/SAMPLE
1	1.002
2	0.9830

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316023.RAW;1
Report: 1197249612
Acquired: 13-NOV-1997 21:28:46
Time range: 8.50-40.00



Date.....15-NOV-1997 16:17:36.79 User: TAYLORC
Report number.....1197249623
Raw file.....DISK:[TAYLORC]8397316034.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 05:30:05
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....90
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.399	-1.42	0.2458	191759		BB	
	10.371			69		BB	
	10.901			809		BV	
	11.036			2238		VV	
	11.140			3200		VV	
	11.386			4266		VB	
	12.056			6494		BV	
	12.341			25005		VE	
	12.605			989		EV	
	12.732			1104		EB	
	13.593			714		BB	
	13.855			4470		BB	
PCB016	14.186	-0.16	0.2205	45329		BE	1
	14.457			116		EB	
	14.662			4847		BB	

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	15.110			17837	BV	
	15.263			14204	VV	
	15.452			26030	VV	
PCB016	15.777	0.00	0.2160	77989	VE	1
	16.084			2725	EB	
PCB016	16.464	-0.21	0.2194	39652	BE	1
	16.739			5366	EV	
	16.917			2233	EV	
	17.029			32619	VV	
	17.147			65832	VV	
	17.340			26282	VV	
	17.482			15208	VV	
	17.616			12918	VB	
	17.893			801	BB	
	18.054			4761	BE	
	18.266			997	EV	
PCB016	18.501	-0.25	0.2081	37720	VV	1
	18.676			16486	VE	
	18.801			2070	EV	
	18.922			16446	VV	
PCB016	19.025	-0.29	0.2061	26047	VV	1
	19.232			12717	VV	
	19.364			11540	VV	
	19.585			17141	VV	
	19.847			22281	VB	
	20.173			34871	BV	
	20.431			34414	VE	
	20.733			1902	EB	
	21.001			3494	BB	
	21.379			348	BB	
	21.552			4020	BB	
	21.865			2222	BV	
	22.123			8204	VE	
	22.406			840	EV	
PCB260	22.538	-0.53	0.2049	58376	VV	2
	22.773			14139	VV	
	22.853			17845	VV	
	22.925			17080	VV	
	23.045			11273	VV	
	23.271			78139	VV	
PCB260	23.616	-0.54	0.1986	123478	VE	2
	23.979			6403	EV	
	24.204			1280	EV	
PCB260	24.430	-0.57	0.1963	48274	VE	2
	24.776			1614	EV	
	24.979			58712	VV	
	25.154			50919	VV	
	25.367			80792	VV	
PCB260	25.497	-0.40	0.1869	85133	VV	2
PCB260	25.756	-0.02	0.1866	45845	VE	2
	25.934			2995	EV	
	26.024			2440	EV	
	26.184			1409	VV	
	26.313			13033	VB	
	26.823			5999	BV	
	26.944			61764	VV	
	27.107			20300	VV	
	27.279			40568	VV	
DBUCLE	27.381	0.05	0.2016	242453	VV	
	27.479			144529	VE	

27.747	2402	EV
27.862	2046	EB
28.719	4481	BB
29.153	26765	BV
29.260	10877	VV
29.391	16138	VV
29.570	58168	VV
30.021	1247	VB
30.442	641	BB
30.910	1605	BB
31.573	622	BB
31.932	8328	BV
32.099	16788	VB
34.436	4135	BB
36.852	358	BB

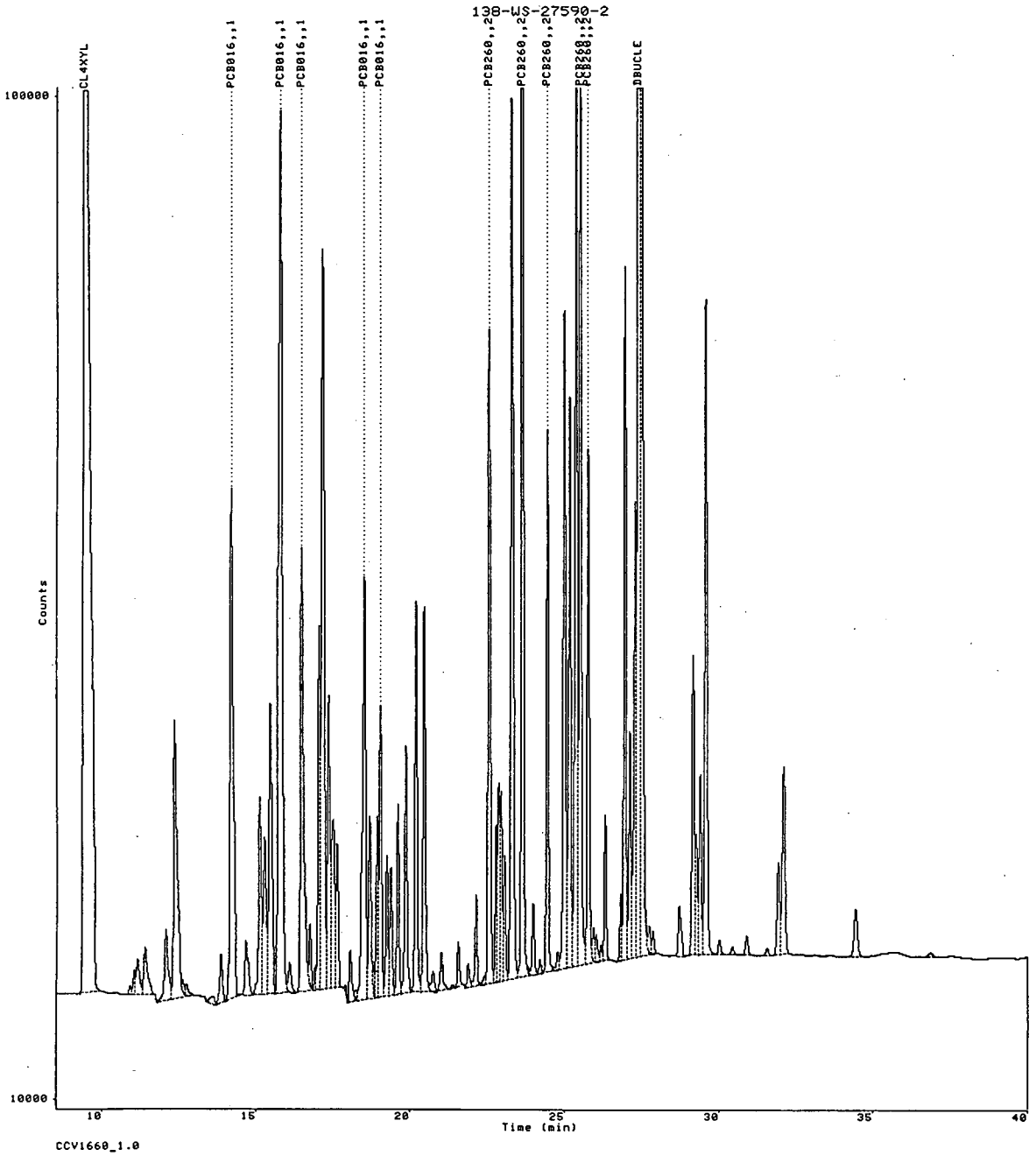
GROUP REPORT

Group	UG/SAMPLE
1	1.070
2	0.9734

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316034.RAW;1
Report: 1197249623
Acquired: 14-NOV-1997 05:30:05
Time range: 8.50-40.00



Date.....15-NOV-1997 16:18:03.13 User: TAYLORC
Report number.....1197249628
Raw file.....DISK:[TAYLORC]8397316039.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 09:08:55
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....89
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.401	-1.53	0.2213	173622		BB	
	10.369			51		BB	
	10.902			746		BV	
	11.035			2054		VV	
	11.141			2882		VV	
	11.387			3923		VB	
	12.057			5863		BV	
	12.342			22789		VE	
	12.605			822		EV	
	12.730			736		EB	
	13.596			623		BB	
	13.857			4098		BB	
PCB016	14.187	-0.23	0.1987	41572		BE	1
	14.457			98		EB	
	14.664			4310		BV	

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	15.111			16360	VV	
	15.266			13085	VV	
	15.452			23936	VV	
PCB016	15.781	-0.21	0.1970	71886	VE	1
	16.084			2819	EV	
PCB016	16.467	-0.39	0.1997	36475	VE	1
	16.741			5238	EV	
	16.921			2839	EV	
	17.032			30799	VV	
	17.149			63746	VV	
	17.343			25219	VV	
	17.486			15054	VV	
	17.620			12832	VE	
	17.899			1235	EB	
	18.056			3923	BB	
PCB016	18.504	-0.41	0.1834	33804	BV	1
	18.679			14720	VE	
	18.805			1512	EV	
	18.924			13979	VV	
PCB016	19.028	-0.46	0.1786	22795	VV	1
	19.235			11286	VV	
	19.367			10056	VV	
	19.588			15219	VV	
	19.848			19956	VB	
	20.176			31503	BV	
	20.434			31360	VE	
	20.737			2009	EB	
	21.003			3074	BB	
	21.404			187	BV	
	21.553			3620	VB	
	21.866			2116	BV	
	22.126			7687	VE	
	22.408			879	EV	
PCB260	22.542	-0.76	0.1776	51521	VV	2
	22.776			12419	VV	
	22.856			15682	VV	
	22.926			15304	VV	
	23.048			10296	VV	
	23.273			68560	VV	
PCB260	23.619	-0.70	0.1673	106096	VE	2
	23.981			5617	EV	
	24.205			1029	EV	
PCB260	24.431	-0.65	0.1679	41563	VB	2
	24.775			1109	BV	
	24.980			50556	VV	
	25.157			42713	VV	
	25.370			69312	VV	
PCB260	25.500	-0.60	0.1581	73005	VV	2
PCB260	25.759	-0.19	0.1603	39692	VE	2
	25.934			2363	EV	
	26.023			1628	EV	
	26.185			978	VV	
	26.317			11262	VB	
	26.825			4934	BV	
	26.946			52848	VV	
	27.109			16604	VV	
	27.282			34147	VV	
DBUCLE	27.382	-0.01	0.1670	202918	VV	
	27.482			123653	VE	
	27.749			2310	EV	

27.864	1668	EB
28.722	3648	BB
29.155	22057	BV
29.262	9156	VV
29.393	13084	VV
29.572	47925	VE
30.027	1044	EB
30.443	509	BB
30.910	1279	BB
31.574	518	BB
31.934	6656	BV
32.103	14004	VB
34.439	3123	BB
36.853	261	BB

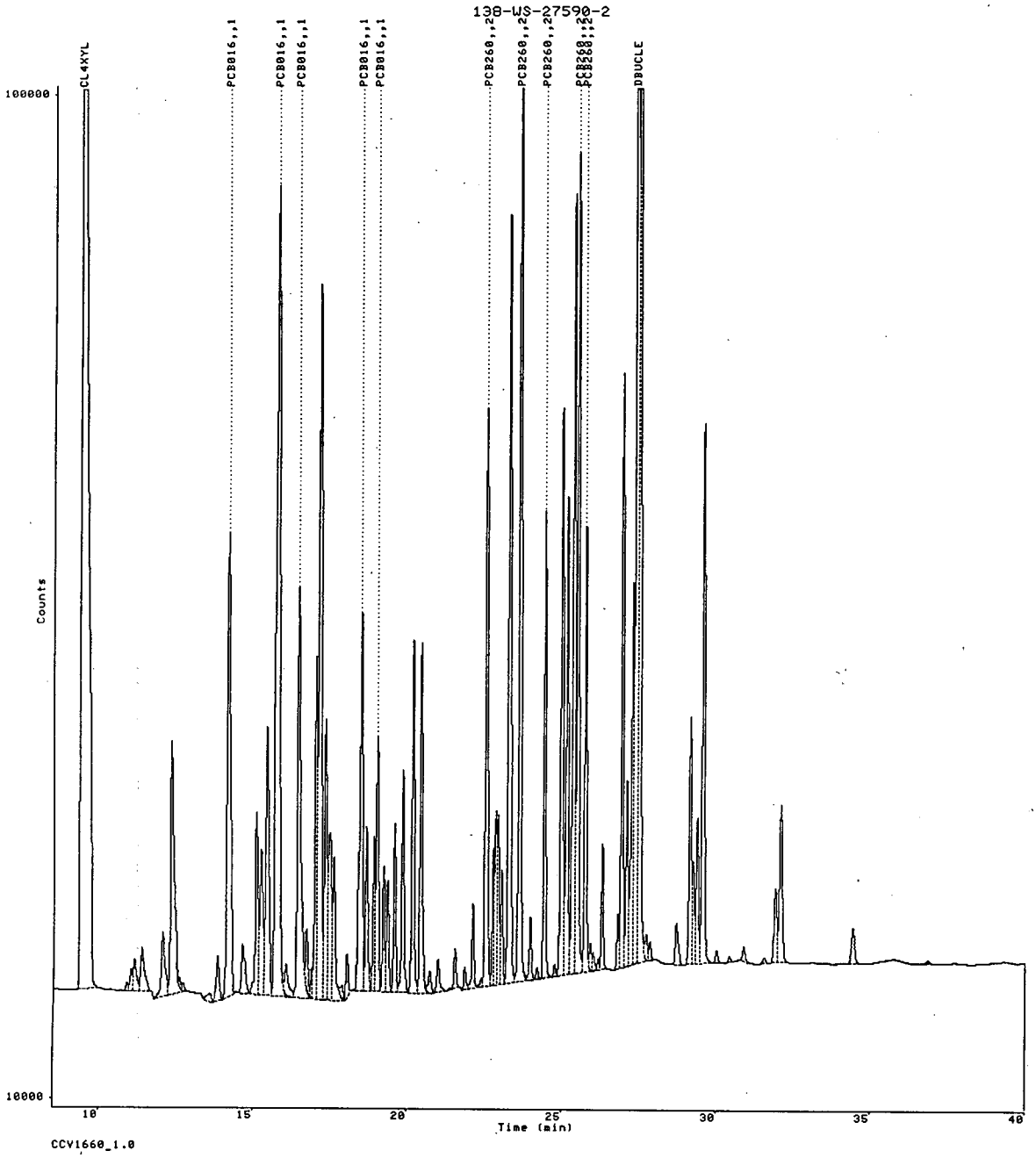
GROUP REPORT

Group	UG/SAMPLE
1	0.9574
2	0.8312

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316039.RAW;1
Report: 1197249628
Acquired: 14-NOV-1997 09:08:55
Time range: 8.50-40.00



0233

Date.....18-NOV-1997 15:04:44.55 User: TAYLORC
Report number.....1197251299
Raw file.....DISK:[TAYLORC]8397316041.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....15-NOV-1997 17:06:46
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....86
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.393	-1.11	0.1950	154018		BB	
	10.364			76		BB	
	10.895			638		BV	
	11.030			1893		VV	
	11.132			2741		VV	
	11.380			3535		VB	
	12.050			4808		BV	
	12.335			19773		VE	
	12.589			545		EB	
	13.604			345		BB	
	13.848			3709		BV	
PCB016	14.177	0.33	0.1836	38873		VV	1
	14.655			4057		VB	
	15.101			15128		BV	
	15.252			10414		VV	

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	15.443			21907	VV	
PCB016	15.771	0.35	0.1806	66536	VB	1
	16.215			110	BB	
PCB016	16.460	0.08	0.1771	32754	BE	1
	16.731			4830	EV	
	16.915			2399	EV	
	17.026			29834	VV	
	17.137			43192	VV	
	17.334			22275	VV	
	17.472			13536	VV	
	17.613			11641	VE	
	17.891			541	EB	
	18.042			3582	BB	
PCB016	18.495	0.11	0.1707	31732	BV	1
	18.670			14102	VV	
	18.914			12070	VV	
PCB016	19.016	0.21	0.1618	20771	VV	1
	19.227			9934	VV	
	19.357			4988	VV	
	19.467			3560	VV	
	19.580			7566	VV	
	19.840			12821	VV	
	20.165			28955	VV	
	20.425			30906	VB	
	20.733			2205	BV	
	20.946			3686	VB	
	21.544			2573	BB	
	21.902			2449	BB	
	22.116			5530	BB	
	22.397			223	BV	
PCB260	22.533	-0.26	0.1561	45940	VV	2
	22.767			10941	VV	
	22.847			14872	VV	
	22.918			14721	VV	
	23.039			8389	VV	
	23.263			65964	VV	
PCB260	23.609	-0.13	0.1486	95378	VE	2
	23.970			5179	EV	
	24.193			1591	EB	
PCB260	24.423	-0.20	0.1546	38396	BE	2
	24.766			729	EV	
	24.971			47912	VV	
	25.148			40290	VV	
	25.360			66618	VV	
PCB260	25.490	-0.02	0.1544	71429	VV	2
PCB260	25.750	0.34	0.1534	38071	VE	2
	25.926			2155	EV	
	26.024			1408	EV	
	26.180			1641	VV	
	26.306			11745	VB	
	26.816			5258	BV	
	26.936			50390	VV	
	27.099			17039	VV	
	27.271			33767	VV	
DBUCLE	27.373	0.55	0.1644	199930	VV	
	27.471			125013	VE	
	27.731			3270	EV	
	27.853			1828	EB	
	28.711			3693	BB	
	29.145			23390	BV	

29.254	9558	VV
29.381	14102	VV
29.560	48668	VE
30.014	1138	EB
30.430	79	BB
30.899	1512	BB
31.559	612	BB
31.920	7254	BV
32.090	15107	VB
34.422	3693	BB
36.836	58459	BB

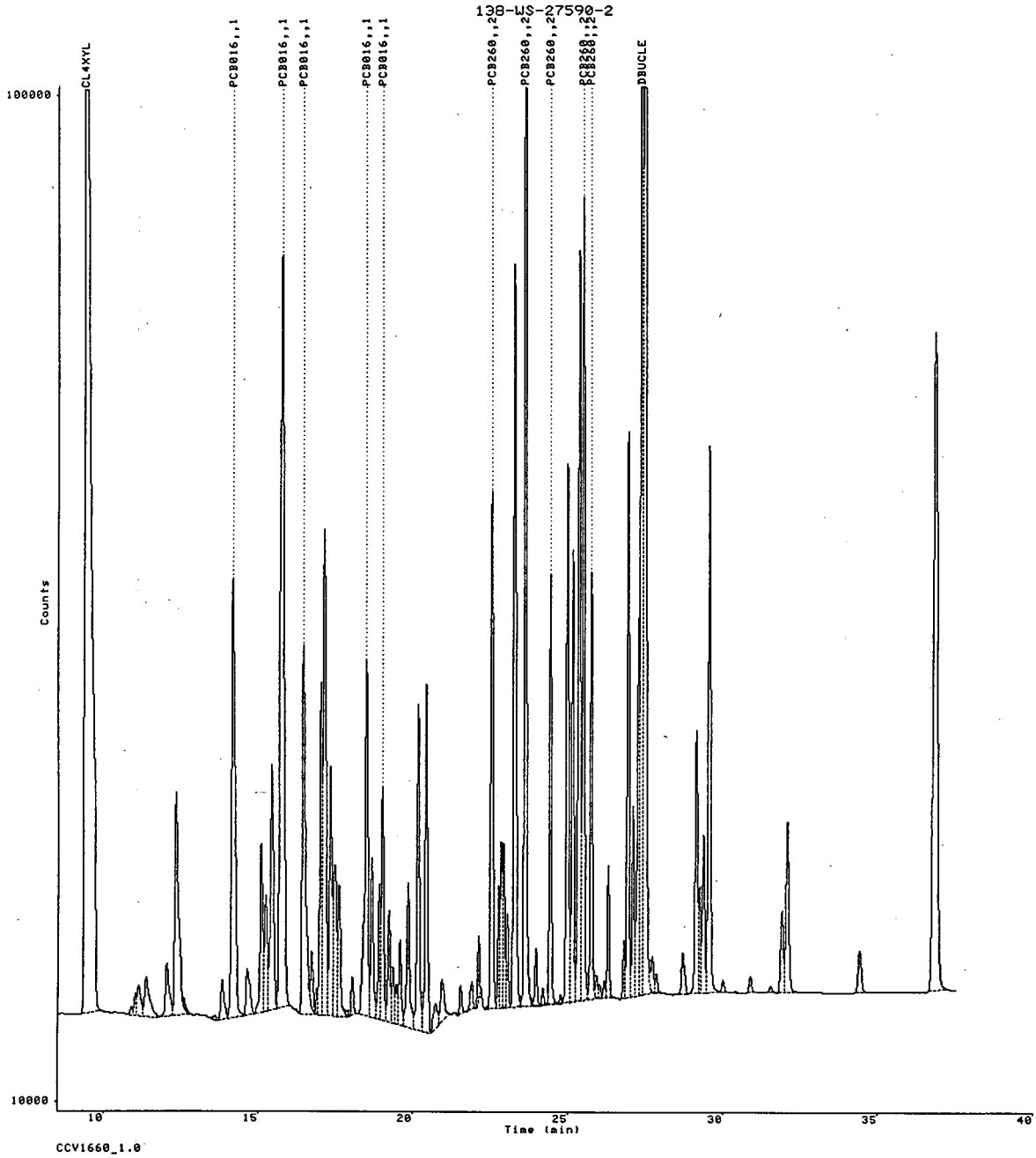
GROUP REPORT

Group	UG/SAMPLE
1	0.8737
2	0.7671

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316041.RAW;1
Report: 1197251299
Acquired: 15-NOV-1997 17:06:46
Time range: 8.50-40.00



0237

Date.....18-NOV-1997 15:57:38.11 User: TAYLORC
Report number.....1197251524
Raw file.....DISK:[TAYLORC]8397316042.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;29
Last method update..18-NOV-1997 15:57:39.83

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....5

Acq. date.....15-NOV-1997 17:47:05
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Stds.
11/15

Anal. run time.....37.501 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.....9.200 min
No. peaks found.....74
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
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

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EXTERNAL STANDARD CALIBRATION

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Calibration Sample name: $1254_2.0

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	9.394	286710			--- ---
PCB016	14.180	1422			
PCB016	15.751	3172			
PCB016	16.461	1083			
PCB016	18.496	39765			
PCB016	19.016	15746			
PCB254	19.578	57740	0.40000	1.444E+05	
PCB254	20.423	104371	0.40000	2.609E+05	
PCB254	20.728	50988	0.40000	1.275E+05	
PCB254	22.113	83249	0.40000	2.081E+05	
PCB260	22.556	163294			
PCB260	23.609	75199			
PCB260	24.423	26117			

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PCB254	24.764	66670	0.40000	1.667E+05
PCB260	25.488	7577		
PCB260	25.772	9960		
DBUCLE	27.371	367905		

METHOD CALIBRATION CHANGES

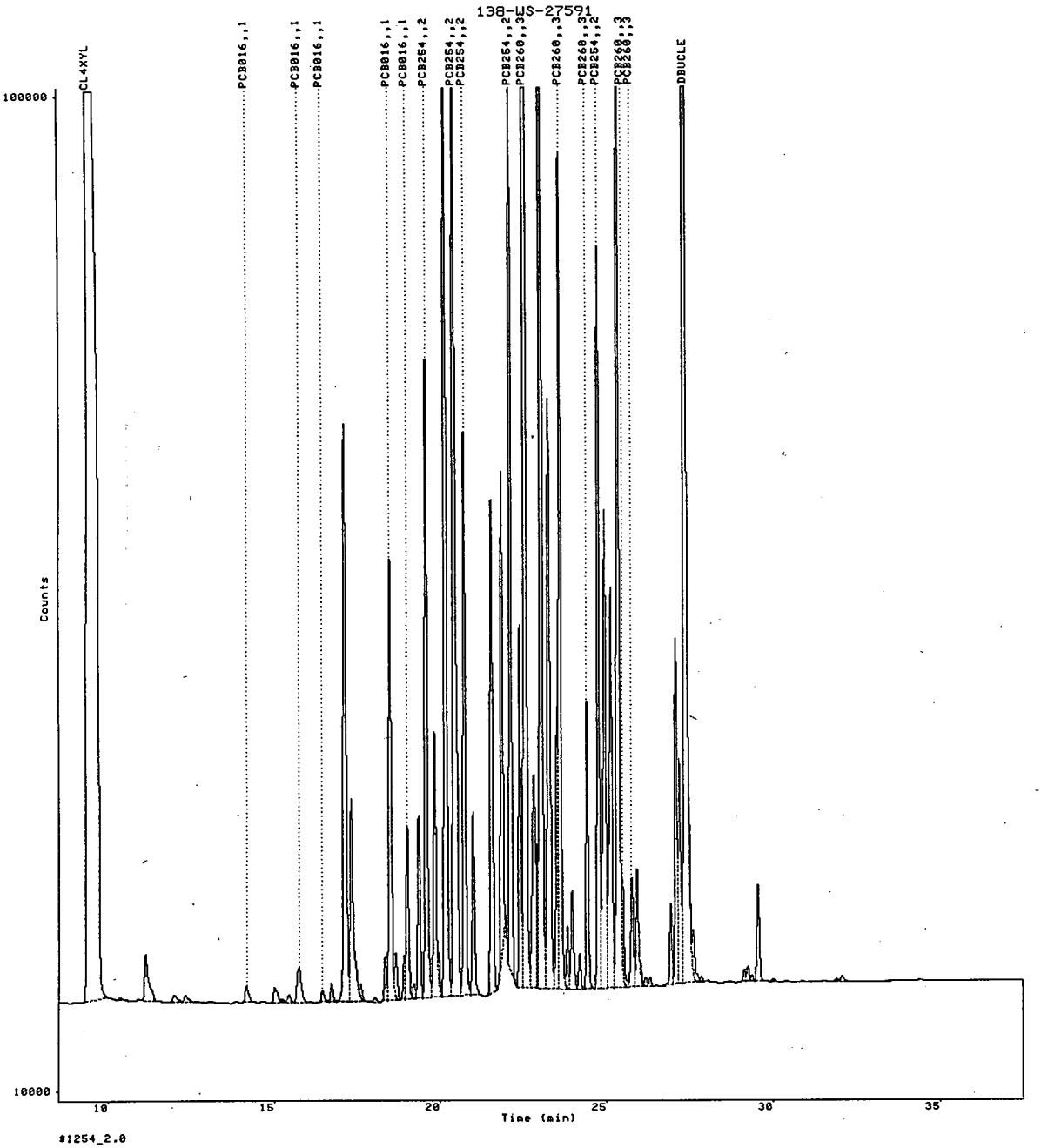
Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375				0
PCB016	14.183	14.183				0
PCB016	15.777	15.777				0
PCB016	16.461	16.461				0
PCB016	18.497	18.497				0
PCB016	19.020	19.020				0
PCB254	19.592	19.592	1.444E+05	1.444E+05		1
PCB254	20.429	20.429	2.609E+05	2.609E+05		1
PCB254	20.739	20.739	1.275E+05	1.275E+05		1
PCB254	22.124	22.124	2.081E+05	2.081E+05		1
PCB260	22.558	22.558				0
PCB260	23.607	23.607				0
PCB260	24.420	24.420				0
PCB254	24.770	24.770	1.667E+05	1.667E+05		1
PCB260	25.490	25.490				0
PCB260	25.756	25.756				0
DBUCLE	27.382	27.382				0

ANALYSIS NOTES

1: ERROR in calibration data for Sample or Internal Std. peak. (145)
2: WARNING: Peak windows overlap. Check peak identification. (245)

0239

Data file: DISK:[TAYLORC]8397316042.RAW;1
Report: 1197251524
Acquired: 15-NOV-1997 17:47:05
Time range: 8.50-37.50



0240

Date.....18-NOV-1997 15:57:43.85 User: TAYLORC
Report number.....1197251525
Raw file.....DISK:[TAYLORC]8397316043.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;30
Last method update..18-NOV-1997 15:57:45.58

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....6

Acq. date.....15-NOV-1997 18:27:36
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Calib. factors.....Replace Retention times.....Unaltered
Volume injected.....1.00000 (1/x,y) exponent....-1

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EXTERNAL STANDARD CALIBRATION

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Calibration Sample name: $1254_1.0

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	9.395	157570			
PCB016	14.181	718			
PCB016	15.751	1644			
PCB016	16.462	496			
PCB016	18.498	22890			
PCB016	19.018	8522			
PCB254	19.580	33926	0.20000	1.696E+05	
PCB254	20.424	60877	0.20000	3.044E+05	
PCB254	20.730	30208	0.20000	1.510E+05	
PCB254	22.115	47405	0.20000	2.370E+05	
PCB260	22.557	93162			
PCB260	23.610	43134			
PCB260	24.423	14259			
PCB254	24.766	35572	0.20000	1.779E+05	
PCB260	25.488	3996			
PCB260	25.774	5240			

DBUCLE 27.373 202403

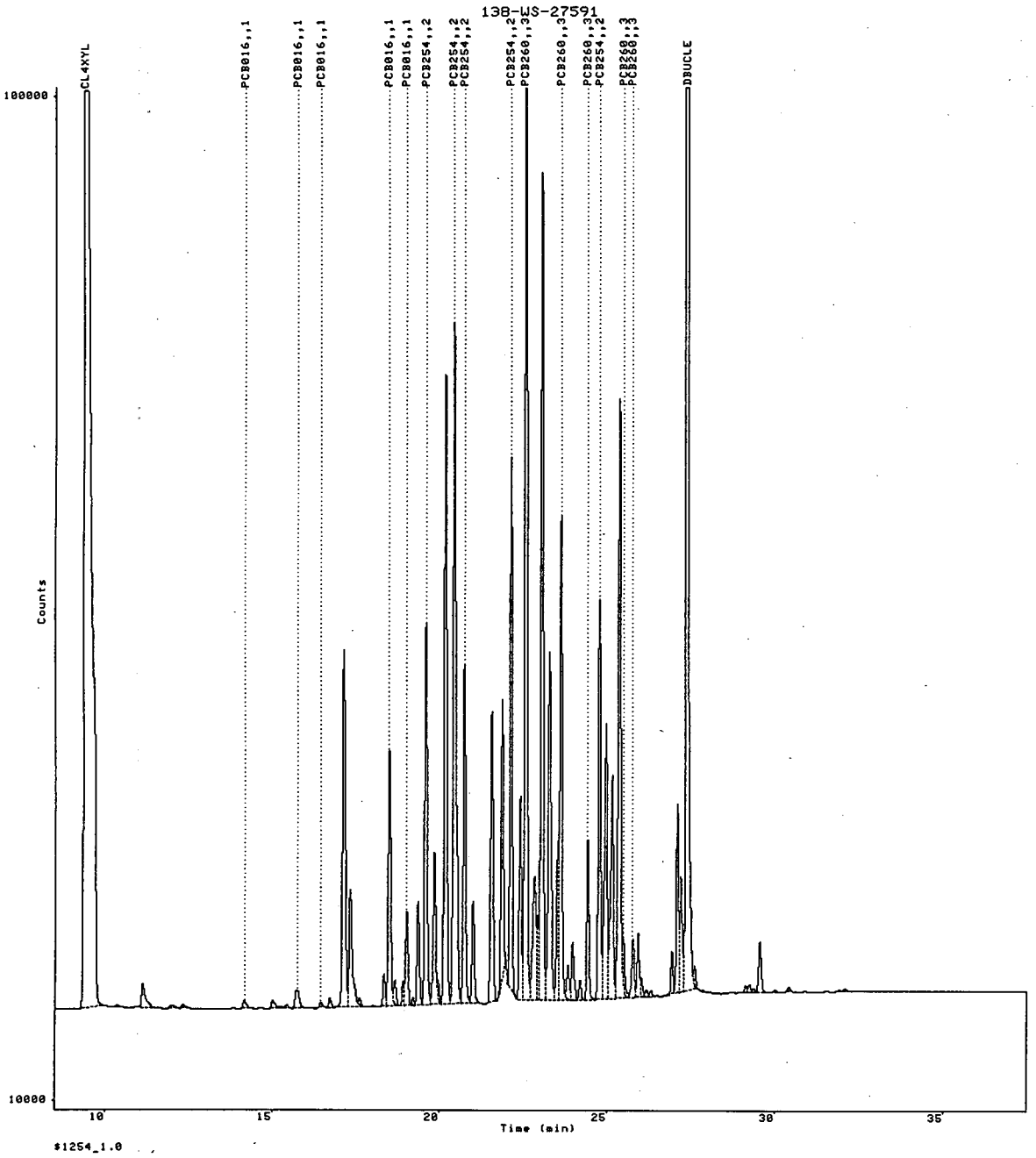
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375				0
PCB016	14.183	14.183				0
PCB016	15.777	15.777				0
PCB016	16.461	16.461				0
PCB016	18.497	18.497				0
PCB016	19.020	19.020				0
PCB254	19.592	19.592	1.696E+05	1.696E+05		1
PCB254	20.429	20.429	3.044E+05	3.044E+05		1
PCB254	20.739	20.739	1.510E+05	1.510E+05		1
PCB254	22.124	22.124	2.370E+05	2.370E+05		1
PCB260	22.558	22.558				0
PCB260	23.607	23.607				0
PCB260	24.420	24.420				0
PCB254	24.770	24.770	1.779E+05	1.779E+05		1
PCB260	25.490	25.490				0
PCB260	25.756	25.756				0
DBUCLE	27.382	27.382				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]8397316043.RAW;1
Report: 1197251525
Acquired: 15-NOV-1997 18:27:36
Time range: 8.50-37.50



0243

Date.....18-NOV-1997 15:57:49.24 User: TAYLORC
Report number.....1197251526
Raw file.....DISK:[TAYLORC]8397316044.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;31
Last method update..18-NOV-1997 15:57:50.90

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....5

Acq. date.....15-NOV-1997 19:07:58
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Calib. factors.....Replace Retention times.....Unaltered
Volume injected.....1.00000 (1/x,y) exponent....-1

==========
EXTERNAL STANDARD CALIBRATION
==========
Calibration Sample name: $1254_0.20

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	9.398	34354			
PCB016	14.186	139			
PCB016	15.753	322			
PCB016	16.462	84			
PCB016	18.499	5573			
PCB016	19.019	1860			
PCB254	19.582	8433	4.0000E-02	2.108E+05	
PCB254	20.427	16496	4.0000E-02	4.124E+05	
PCB254	20.731	7637	4.0000E-02	1.909E+05	
PCB254	22.117	11438	4.0000E-02	2.860E+05	
PCB260	22.561	23281			
PCB260	23.612	10700			
PCB260	24.424	3010			
PCB254	24.768	7966	4.0000E-02	1.992E+05	
PCB260	25.487	768			
PCB260	25.774	1015			

DBUCLE 27.376 43150

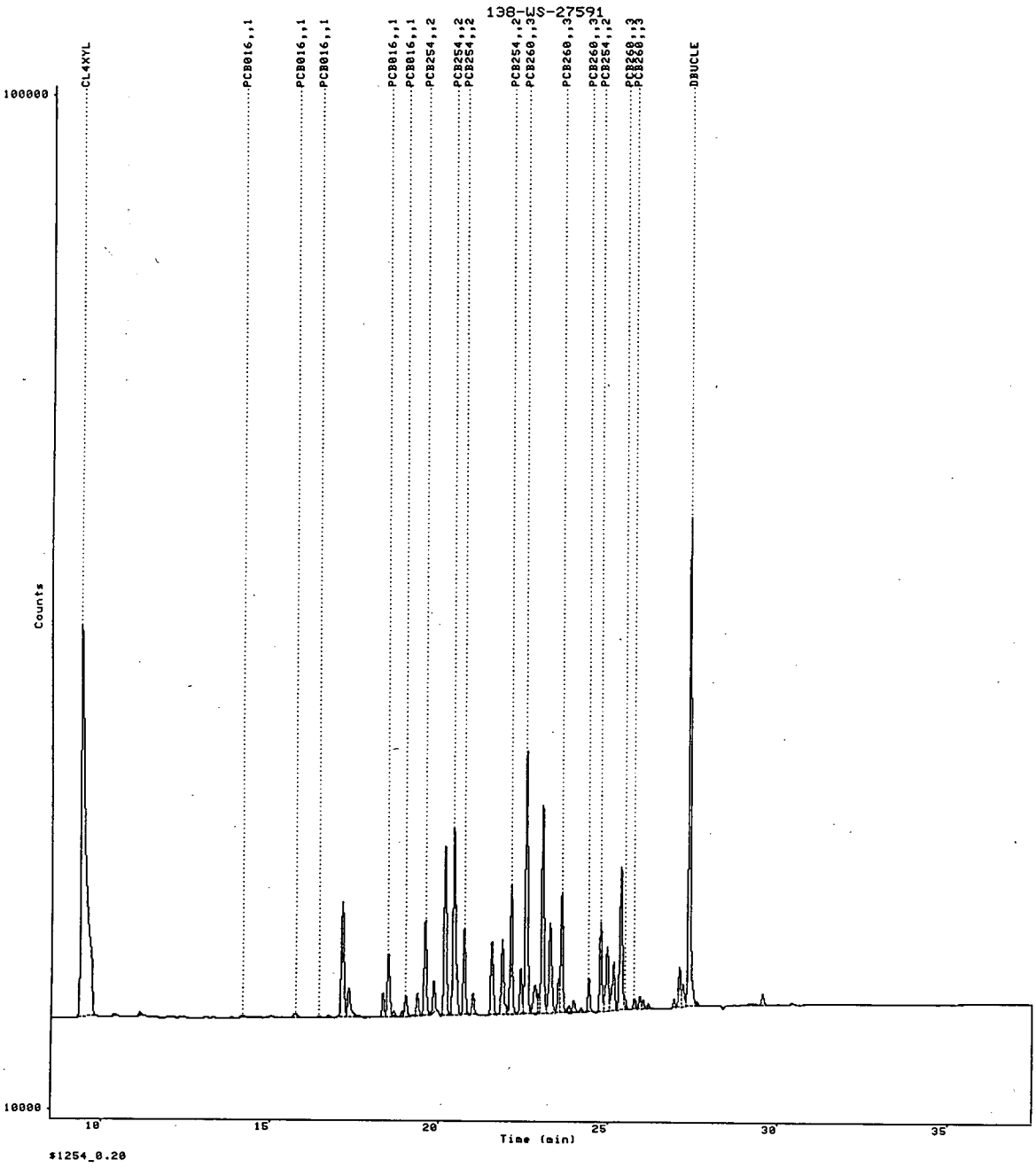
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375				0
PCB016	14.183	14.183				0
PCB016	15.777	15.777				0
PCB016	16.461	16.461				0
PCB016	18.497	18.497				0
PCB016	19.020	19.020				0
PCB254	19.592	19.592	2.108E+05	2.108E+05		1
PCB254	20.429	20.429	4.124E+05	4.124E+05		1
PCB254	20.739	20.739	1.909E+05	1.909E+05		1
PCB254	22.124	22.124	2.860E+05	2.860E+05		1
PCB260	22.558	22.558				0
PCB260	23.607	23.607				0
PCB260	24.420	24.420				0
PCB254	24.770	24.770	1.992E+05	1.992E+05		1
PCB260	25.490	25.490				0
PCB260	25.756	25.756				0
DBUCLE	27.382	27.382				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]8397316044.RAW;1
Report: 1197251526
Acquired: 15-NOV-1997 19:07:58
Time range: 8.50-37.50



0246

Date.....18-NOV-1997 15:57:54.41 User: TAYLORC
Report number.....1197251527
Raw file.....DISK:[TAYLORC]8397316045.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;32
Last method update..18-NOV-1997 15:57:56.12

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....5

Acq. date.....15-NOV-1997 19:48:14
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 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.....9.200 min
No. peaks found.....86
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
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

==========

EXTERNAL STANDARD CALIBRATION

==========

Calibration Sample name: $1254_0.10

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	9.398	18719			
PCB016	14.190	2296			
PCB016	15.718	2210			
PCB016	16.531	104			
PCB016	18.501	3191			
PCB016	19.063	3082			
PCB254	19.584	4712	2.0000E-02	2.356E+05	
PCB254	20.436	7000	2.0000E-02	3.500E+05	
PCB254	20.734	3857	2.0000E-02	1.928E+05	
PCB254	22.117	5292	2.0000E-02	2.646E+05	
PCB260	22.563	11803			
PCB260	23.615	5483			
PCB260	24.394	1446			
PCB254	24.770	5324	2.0000E-02	2.662E+05	
PCB260	25.397	17390			
PCB260	25.774	1703			

DBUCLE 27.377 20648

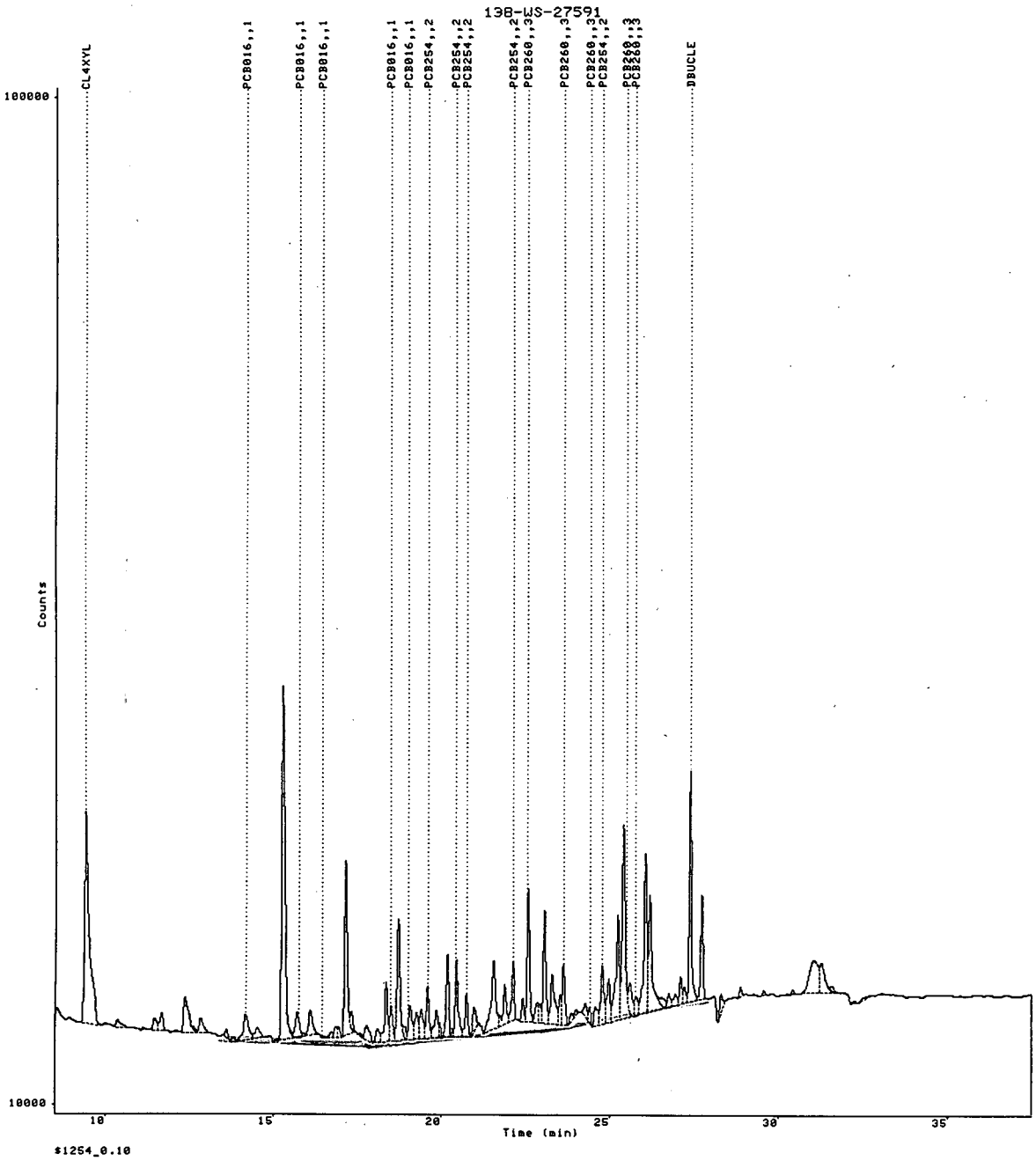
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375				0
PCB016	14.183	14.183				0
PCB016	15.777	15.777				0
PCB016	16.461	16.461				0
PCB016	18.497	18.497				0
PCB016	19.020	19.020				0
PCB254	19.592	19.592	2.356E+05	2.356E+05		1
PCB254	20.429	20.429	3.500E+05	3.500E+05		1
PCB254	20.739	20.739	1.928E+05	1.928E+05		1
PCB254	22.124	22.124	2.646E+05	2.646E+05		1
PCB260	22.558	22.558				0
PCB260	23.607	23.607				0
PCB260	24.420	24.420				0
PCB254	24.770	24.770	2.662E+05	2.662E+05		1
PCB260	25.490	25.490				0
PCB260	25.756	25.756				0
DBUCLE	27.382	27.382				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]8397316045.RAW;1
Report: 1197251527
Acquired: 15-NOV-1997 19:48:14
Time range: 8.50-37.50



0249

Date.....18-NOV-1997 15:57:59.53 User: TAYLORC
Report number.....1197251528
Raw file.....DISK:[TAYLORC]8397316046.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;33
Last method update..18-NOV-1997 15:58:01.04

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....5

Acq. date.....15-NOV-1997 20:28:32
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1254_.02
Notes.....138-WS-27591

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.502 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....41
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Calib. factors.....Replace Retention times.....Unaltered
Volume injected.....1.00000 (1/x,y) exponent....-1

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.18	PCB016	1		
15.78	PCB016	1		
16.46	PCB016	1		

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: $1254_.02

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref	Std
CL4XYL	9.400	3545				
PCB016	18.498	640				
PCB016	19.018	172				
PCB254	19.582	1014	4.0000E-03	2.535E+05		
PCB254	20.428	2381	4.0000E-03	5.952E+05		
PCB254	20.732	1067	4.0000E-03	2.668E+05		
PCB254	22.117	1324	4.0000E-03	3.310E+05		

PCB260	22.560	2942		
PCB260	23.613	1463		
PCB260	24.424	327		
PCB254	24.768	875	4.0000E-03	2.187E+05
PCB260	25.367	1590		
PCB260	25.771	96		
DBUCLE	27.375	3913		

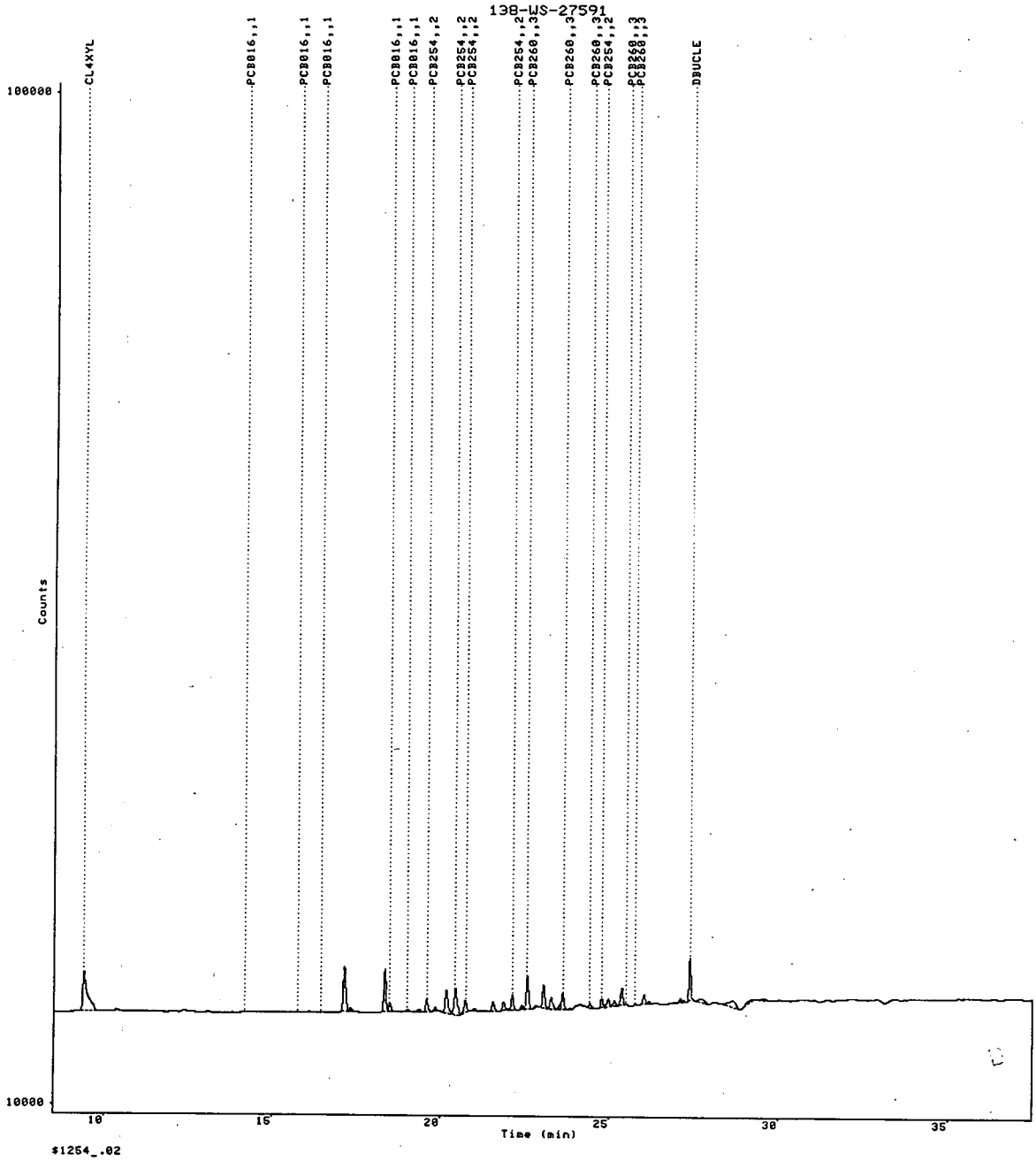
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375				0
PCB016	18.497	18.497				0
PCB016	19.020	19.020				0
PCB254	19.592	19.592	2.535E+05	2.535E+05		1
PCB254	20.429	20.429	5.952E+05	5.952E+05		1
PCB254	20.739	20.739	2.668E+05	2.668E+05		1
PCB254	22.124	22.124	3.310E+05	3.310E+05		1
PCB260	22.558	22.558				0
PCB260	23.607	23.607				0
PCB260	24.420	24.420				0
PCB254	24.770	24.770	2.188E+05	2.187E+05		1
PCB260	25.490	25.490				0
PCB260	25.756	25.756				0
DBUCLE	27.382	27.382				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]8397316046.RAW;1
Report: 1197251528
Acquired: 15-NOV-1997 20:28:32
Time range: 8.50-37.50



0252

Date.....18-NOV-1997 15:58:04.18 User: TAYLORC
Report number.....1197251529
Raw file.....DISK:[TAYLORC]8397316048.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;34
Last method update..18-NOV-1997 15:58:05.87

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....15-NOV-1997 21:49:23
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 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.....9.200 min
No. peaks found.....84
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
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

==========
EXTERNAL STANDARD CALIBRATION
==========
Calibration Sample name: $1660_2.0

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	9.397	299179	0.40000	7.479E+05	
PCB016	14.179	71073	0.40000	1.777E+05	
PCB016	15.771	127061	0.40000	3.177E+05	
PCB016	16.457	64431	0.40000	1.611E+05	
PCB016	18.493	62612	0.40000	1.565E+05	
PCB016	19.016	44646	0.40000	1.116E+05	
PCB254	19.579	27094			
PCB254	20.424	54058			
PCB254	20.728	1975			
PCB254	22.116	13313			
PCB260	22.532	87208	0.40000	2.180E+05	
PCB260	23.609	179054	0.40000	4.476E+05	
PCB260	24.422	78441	0.40000	1.961E+05	
PCB254	24.766	1412			
PCB260	25.490	133798	0.40000	3.345E+05	
PCB260	25.749	76694	0.40000	1.917E+05	

DBUCLE	27.372	410102	0.40000	1.025E+06

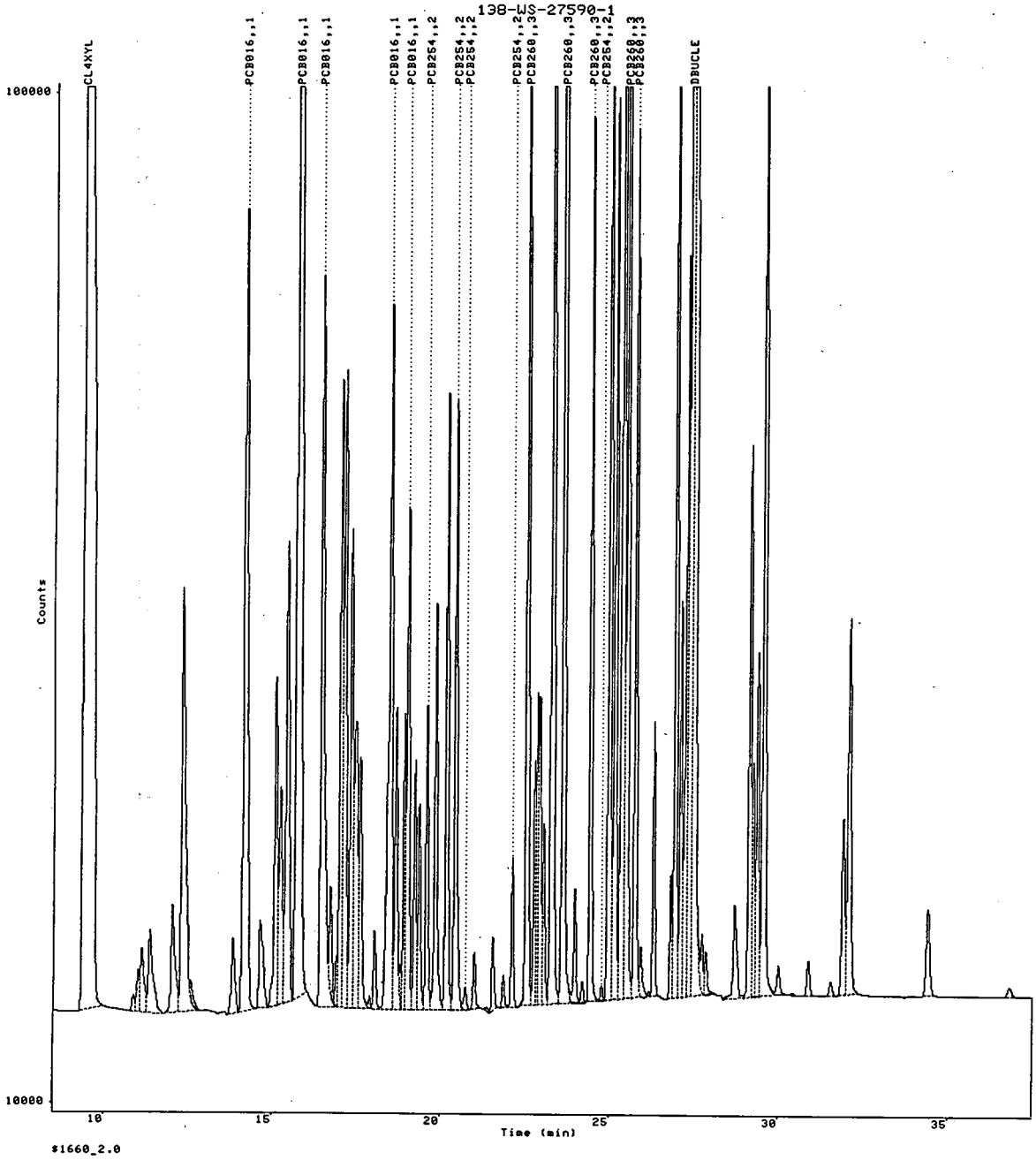
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375	7.479E+05	7.479E+05		1
PCB016	14.183	14.183	1.777E+05	1.777E+05		1
PCB016	15.777	15.777	3.177E+05	3.177E+05		1
PCB016	16.461	16.461	1.611E+05	1.611E+05		1
PCB016	18.497	18.497	1.565E+05	1.565E+05		1
PCB016	19.020	19.020	1.116E+05	1.116E+05		1
PCB254	19.592	19.592				0
PCB254	20.429	20.429				0
PCB254	20.739	20.739				0
PCB254	22.124	22.124				0
PCB260	22.558	22.558	2.180E+05	2.180E+05		1
PCB260	23.607	23.607	4.476E+05	4.476E+05		1
PCB260	24.420	24.420	1.961E+05	1.961E+05		1
PCB254	24.770	24.770				0
PCB260	25.490	25.490	3.345E+05	3.345E+05		1
PCB260	25.756	25.756	1.917E+05	1.917E+05		1
DBUCLE	27.382	27.382	1.025E+06	1.025E+06		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]8397316048.RAW;1
Report: 1197251529
Acquired: 15-NOV-1997 21:49:23
Time range: 8.50-37.50



0255

Date.....18-NOV-1997 15:58:10.01 User: TAYLORC
Report number.....1197251530
Raw file.....DISK:[TAYLORC]8397316049.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;35
Last method update..18-NOV-1997 15:58:11.62

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....15-NOV-1997 22:29:41
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 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.....9.200 min
No. peaks found.....85
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
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

==========
EXTERNAL STANDARD CALIBRATION
==========
Calibration Sample name: $1660_1.0

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref	Std
CL4XYL	9.395	164458	0.20000	8.223E+05		
PCB016	14.180	42200	0.20000	2.110E+05		
PCB016	15.773	74566	0.20000	3.728E+05		
PCB016	16.459	37734	0.20000	1.887E+05		
PCB016	18.495	36349	0.20000	1.817E+05		
PCB016	19.017	23072	0.20000	1.154E+05		
PCB254	19.581	7753				
PCB254	20.425	33434				
PCB254	20.728	803				
PCB254	22.117	6411				
PCB260	22.533	53125	0.20000	2.656E+05		
PCB260	23.611	110802	0.20000	5.540E+05		
PCB260	24.422	46176	0.20000	2.309E+05		
PCB254	24.765	659				
PCB260	25.491	83703	0.20000	4.185E+05		
PCB260	25.751	46054	0.20000	2.303E+05		

DBUCLE	27.372	250688	0.20000	1.253E+06

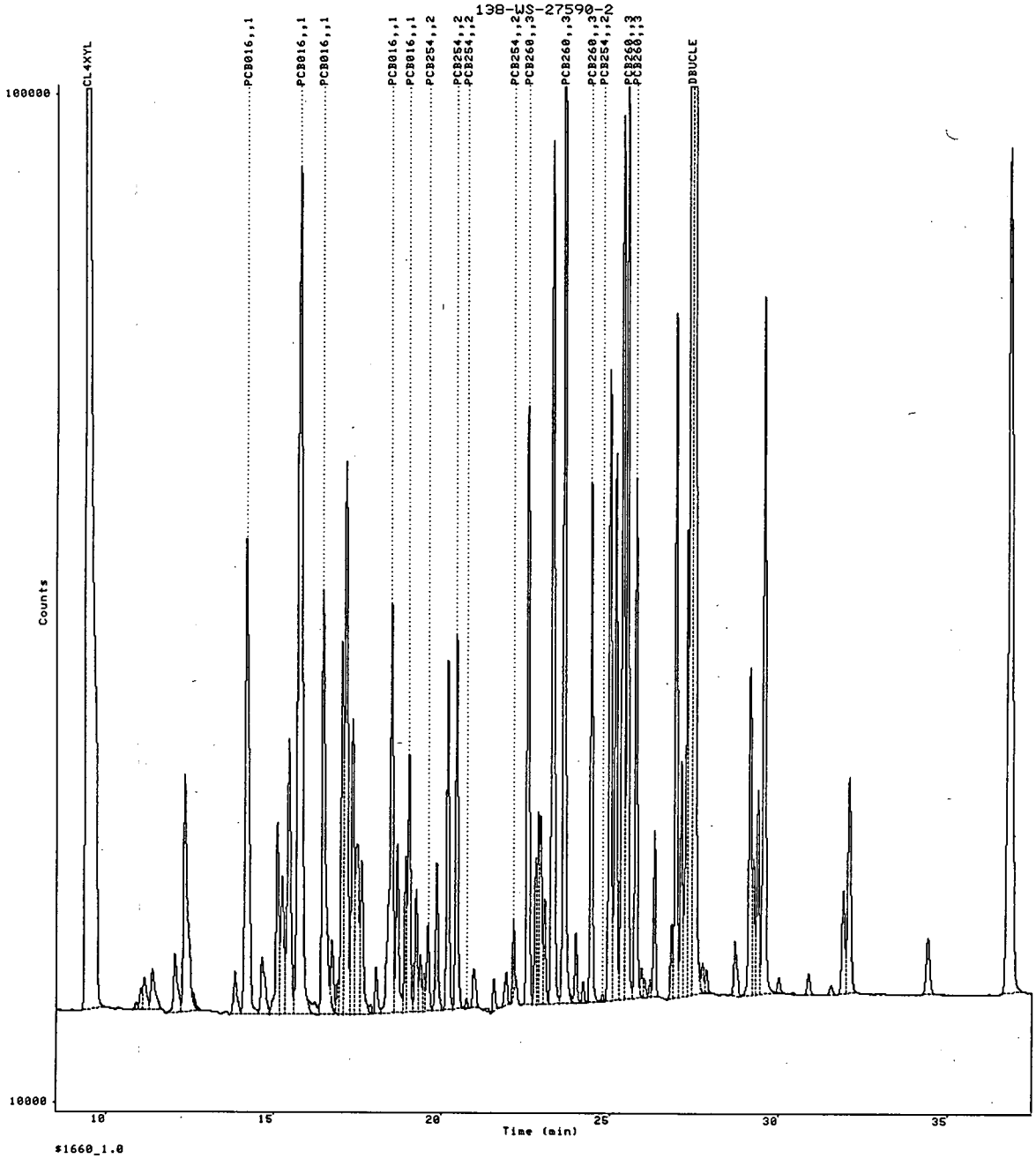
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375	8.223E+05	8.223E+05		1
PCB016	14.183	14.183	2.110E+05	2.110E+05		1
PCB016	15.777	15.777	3.728E+05	3.728E+05		1
PCB016	16.461	16.461	1.887E+05	1.887E+05		1
PCB016	18.497	18.497	1.817E+05	1.817E+05		1
PCB016	19.020	19.020	1.154E+05	1.154E+05		1
PCB254	19.592	19.592				0
PCB254	20.429	20.429				0
PCB254	20.739	20.739				0
PCB254	22.124	22.124				0
PCB260	22.558	22.558	2.656E+05	2.656E+05		1
PCB260	23.607	23.607	5.540E+05	5.540E+05		1
PCB260	24.420	24.420	2.309E+05	2.309E+05		1
PCB254	24.770	24.770				0
PCB260	25.490	25.490	4.185E+05	4.185E+05		1
PCB260	25.756	25.756	2.303E+05	2.303E+05		1
DBUCLE	27.382	27.382	1.253E+06	1.253E+06		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]8397316049.RAW;1
Report: 1197251530
Acquired: 15-NOV-1997 22:29:41
Time range: 8.50-37.50



0258

Date.....18-NOV-1997 15:58:16.17 User: TAYLORC
Report number.....1197251531
Raw file.....DISK:[TAYLORC]8397316050.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;36
Last method update..18-NOV-1997 15:58:17.88

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....15-NOV-1997 23:09:59
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 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.....9.200 min
No. peaks found.....80
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
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

==========
EXTERNAL STANDARD CALIBRATION
==========
Calibration Sample name: $1660_.20

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	9.396	37002	4.0000E-02	9.250E+05	
PCB016	14.180	11046	4.0000E-02	2.762E+05	
PCB016	15.774	18641	4.0000E-02	4.660E+05	
PCB016	16.461	9500	4.0000E-02	2.375E+05	
PCB016	18.495	9390	4.0000E-02	2.348E+05	
PCB016	19.016	6286	4.0000E-02	1.572E+05	
PCB254	19.582	3879			
PCB254	20.427	8568			
PCB254	20.729	302			
PCB254	22.116	1570			
PCB260	22.534	12576	4.0000E-02	3.144E+05	
PCB260	23.611	26408	4.0000E-02	6.602E+05	
PCB260	24.423	9577	4.0000E-02	2.394E+05	
PCB254	24.767	112			
PCB260	25.492	18219	4.0000E-02	4.555E+05	
PCB260	25.752	9288	4.0000E-02	2.322E+05	

DBUCLE	27.373	48169	4.0000E-02	1.204E+06

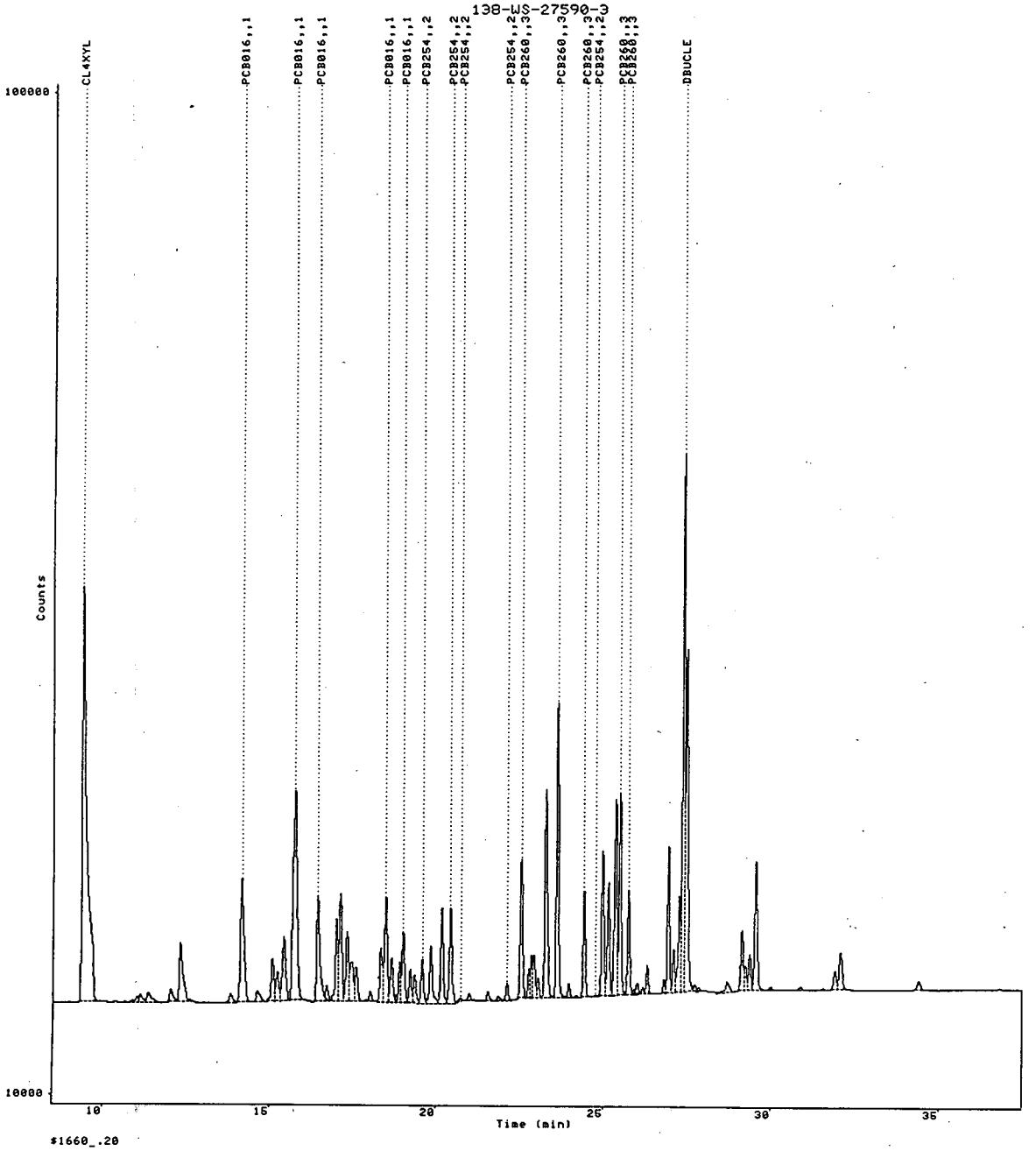
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375	9.250E+05	9.250E+05		1
PCB016	14.183	14.183	2.762E+05	2.762E+05		1
PCB016	15.777	15.777	4.660E+05	4.660E+05		1
PCB016	16.461	16.461	2.375E+05	2.375E+05		1
PCB016	18.497	18.497	2.348E+05	2.348E+05		1
PCB016	19.020	19.020	1.572E+05	1.572E+05		1
PCB254	19.592	19.592				0
PCB254	20.429	20.429				0
PCB254	20.739	20.739				0
PCB254	22.124	22.124				0
PCB260	22.558	22.558	3.144E+05	3.144E+05		1
PCB260	23.607	23.607	6.602E+05	6.602E+05		1
PCB260	24.420	24.420	2.394E+05	2.394E+05		1
PCB254	24.770	24.770				0
PCB260	25.490	25.490	4.555E+05	4.555E+05		1
PCB260	25.756	25.756	2.322E+05	2.322E+05		1
DBUCLE	27.382	27.382	1.204E+06	1.204E+06		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]8397316050.RAW;1
Report: 1197251531
Acquired: 15-NOV-1997 23:09:59
Time range: 8.50-37.50



0261

Date.....18-NOV-1997 15:58:21.16 User: TAYLORC
Report number.....1197251532
Raw file.....DISK:[TAYLORC]8397316051.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;37
Last method update..18-NOV-1997 15:58:22.91

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....15-NOV-1997 23:50:14
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 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.....9.200 min
No. peaks found.....74
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
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

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref Std
24.77	PCB254	2	

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: $1660_.10

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	9.398	18265	2.0000E-02	9.132E+05	
PCB016	14.181	5932	2.0000E-02	2.966E+05	
PCB016	15.772	10056	2.0000E-02	5.028E+05	
PCB016	16.462	5042	2.0000E-02	2.521E+05	
PCB016	18.496	4876	2.0000E-02	2.438E+05	
PCB016	19.016	3106	2.0000E-02	1.553E+05	
PCB254	19.582	1915			
PCB254	20.427	4597			
PCB254	20.732	145			

PCB254	22.117	938		
PCB260	22.534	6917	2.0000E-02	3.458E+05
PCB260	23.612	14340	2.0000E-02	7.170E+05
PCB260	24.423	4893	2.0000E-02	2.446E+05
PCB260	25.494	9505	2.0000E-02	4.752E+05
PCB260	25.751	4733	2.0000E-02	2.366E+05
DBUCLE	27.374	23148	2.0000E-02	1.157E+06

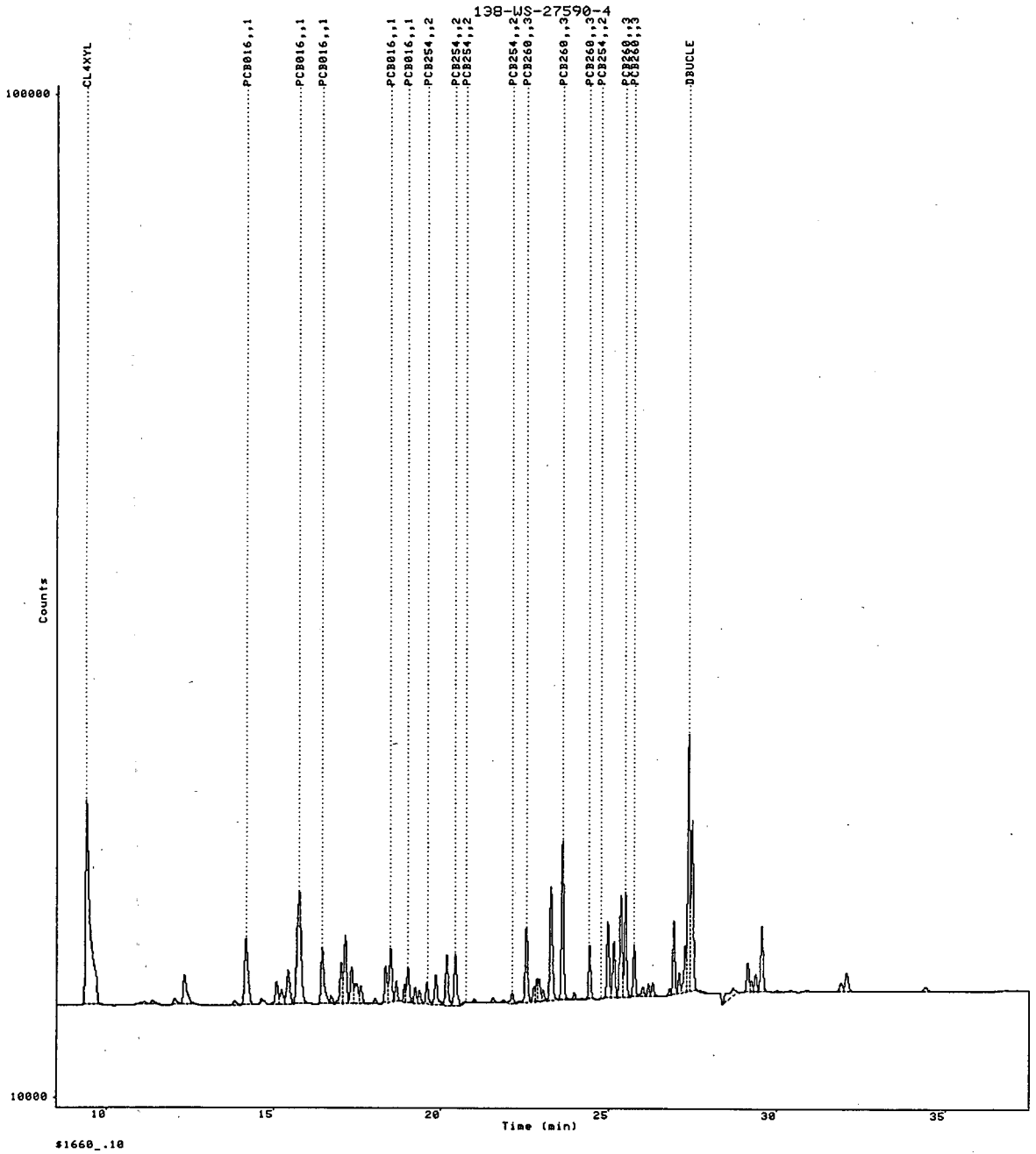
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375	9.132E+05	9.132E+05		1
PCB016	14.183	14.183	2.966E+05	2.966E+05		1
PCB016	15.777	15.777	5.028E+05	5.028E+05		1
PCB016	16.461	16.461	2.521E+05	2.521E+05		1
PCB016	18.497	18.497	2.438E+05	2.438E+05		1
PCB016	19.020	19.020	1.553E+05	1.553E+05		1
PCB254	19.592	19.592				0
PCB254	20.429	20.429				0
PCB254	20.739	20.739				0
PCB254	22.124	22.124				0
PCB260	22.558	22.558	3.458E+05	3.458E+05		1
PCB260	23.607	23.607	7.170E+05	7.170E+05		1
PCB260	24.420	24.420	2.446E+05	2.446E+05		1
PCB260	25.490	25.490	4.752E+05	4.752E+05		1
PCB260	25.756	25.756	2.366E+05	2.366E+05		1
DBUCLE	27.382	27.382	1.157E+06	1.157E+06		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]8397316051.RAW;1
Report: 1197251532
Acquired: 15-NOV-1997 23:50:14
Time range: 8.50-37.50



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Date.....18-NOV-1997 15:58:26.14 User: TAYLORC
Report number.....1197251533
Raw file.....DISK:[TAYLORC]8397316052.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;38
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 00:30:32
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 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.....9.200 min
No. peaks found.....63
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
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

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
24.77	PCB254	2		

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: $1660_.02

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref	Std
CL4XYL	9.398	3674	4.0000E-03	9.185E+05		
PCB016	14.182	1340	4.0000E-03	3.350E+05		
PCB016	15.773	2302	4.0000E-03	5.755E+05		
PCB016	16.461	1097	4.0000E-03	2.742E+05		
PCB016	18.496	1091	4.0000E-03	2.728E+05		
PCB016	19.017	688	4.0000E-03	1.720E+05		
PCB254	19.582	371				
PCB254	20.428	1253				
PCB254	20.806	229				

PCB254	22.115	151		
PCB260	22.535	1520	4.0000E-03	3.800E+05
PCB260	23.612	3386	4.0000E-03	8.465E+05
PCB260	24.425	1090	4.0000E-03	2.725E+05
PCB260	25.492	2039	4.0000E-03	5.097E+05
PCB260	25.752	1018	4.0000E-03	2.545E+05
DBUCLE	27.373	4678	4.0000E-03	1.170E+06

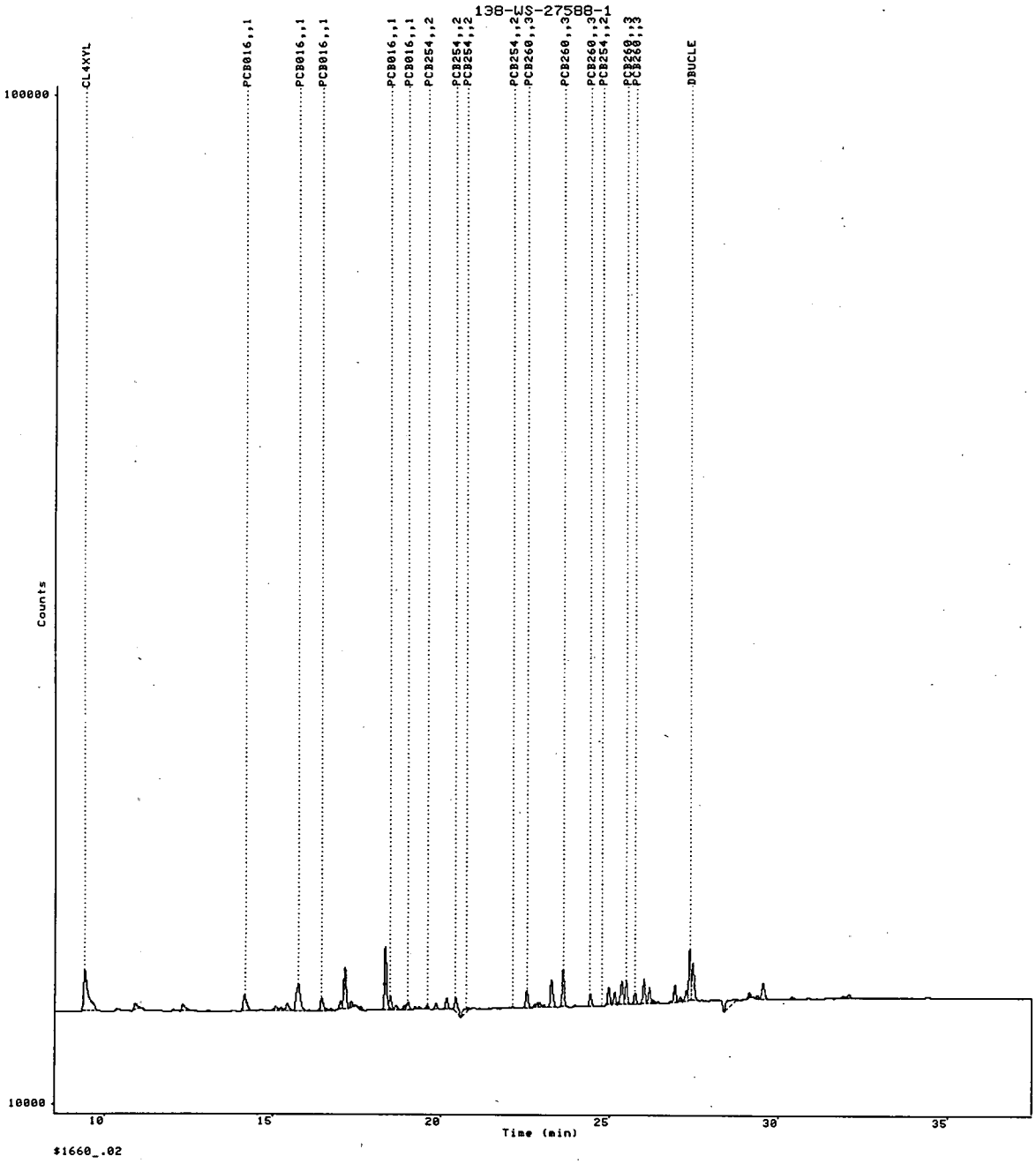
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	9.375	9.375	9.185E+05	9.185E+05		1
PCB016	14.183	14.183	3.350E+05	3.350E+05		1
PCB016	15.777	15.777	5.755E+05	5.755E+05		1
PCB016	16.461	16.461	2.742E+05	2.742E+05		1
PCB016	18.497	18.497	2.728E+05	2.728E+05		1
PCB016	19.020	19.020	1.720E+05	1.720E+05		1
PCB254	19.592	19.592				0
PCB254	20.429	20.429				0
PCB254	20.739	20.739				0
PCB254	22.124	22.124				0
PCB260	22.558	22.558	3.800E+05	3.800E+05		1
PCB260	23.607	23.607	8.465E+05	8.465E+05		1
PCB260	24.420	24.420	2.725E+05	2.725E+05		1
PCB260	25.490	25.490	5.098E+05	5.097E+05		1
PCB260	25.756	25.756	2.545E+05	2.545E+05		1
DBUCLE	27.382	27.382	1.170E+06	1.170E+06		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]8397316052.RAW;1
Report: 1197251533
Acquired: 16-NOV-1997 00:30:32
Time range: 8.50-37.50



Date.....18-NOV-1997 15:58:31.15 User: TAYLORC
Report number.....1197251534
Raw file.....DISK:[TAYLORC]8397316047.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....6

Acq. date.....15-NOV-1997 21:09:04
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....ICV1254_1.0
Notes.....138-WS-27533

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....71
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.396	-1.26	0.1961	163129		BB	
	10.369			176		BB	
	11.141			2173		BB	
	12.005			278		BB	
	12.344			352		BB	
PCB016	14.181	0.15	1.069E-03-	742		BB	1
	15.027			794		BE	
	15.264			167		EV	
	15.445			339		VB	
PCB016	15.750	1.61	2.177E-03-	1696		BB	1
PCB016	16.461	0.00	1.115E-03-	551		BV	1
	16.734			894		VB	
	17.134			32848		BV	
	17.335			10784		VE	
	17.613			656		EB	

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	18.041			170	BB	
	18.344			4769	BV	
PCB016	18.498	-0.06	0.1160	23386	VE	1
	18.665			2222	EV	
	18.915			2323	VV	
PCB016	19.017	0.17	0.06700	8828	VE	1
	19.210			737	EV	
	19.358			9538	VV	
PCB254	19.580	0.73	0.1998	34744	VV	2
	19.839			14062	VE	
	19.949			1302	EV	
	20.164			57033	VV	
PCB254	20.424	0.28	0.2015	62343	VV	2
PCB254	20.729	0.58	0.2019	30910	VV	2
	20.993			9344	VB	
	21.544			26200	BB	
	21.854			25114	BB	
PCB254	22.115	0.57	0.2017	48266	BB	2
	22.396			18691	BV	
PCB260	22.557	0.07	0.4753 +	94501	VV	3
	22.823			11299	VV	
	22.919			7725	VV	
	23.038			75068	VV	
	23.266			31027	VV	
	23.520			14155	VV	
PCB260	23.609	-0.14	0.07043	44697	VE	3
	23.832			3115	EV	
	23.972			5192	EV	
	24.195			1778	VB	
PCB260	24.423	-0.19	0.05948	14691	BB	3
PCB254	24.765	0.27	0.2028	37075	BV	2
	24.960			25006	VV	
	25.147			20692	VV	
	25.362			53755	VE	
PCB260	25.488	0.14	8.551E-03	4158	EV	3
PCB260	25.772	-0.98	0.02217	5494	VV	3
	25.927			5891	VV	
	26.015			1733	VV	
	26.174			606	VV	
	26.306			504	VB	
	26.815			130	BV	
	26.937			4041	VV	
	27.093			17446	VV	
	27.198			11027	VV	
DBUCLE	27.371	0.64	0.1688	206511	VE	
	27.614			1917	EB	
	27.852			142	BB	
	28.709			53	BB	
	29.145			614	BV	
	29.252			769	VV	
	29.378			327	VV	
	29.561			4808	VB	
	30.015			147	BB	
	30.423			1194	BB	
	31.920			94	BV	
	32.089			256	VB	

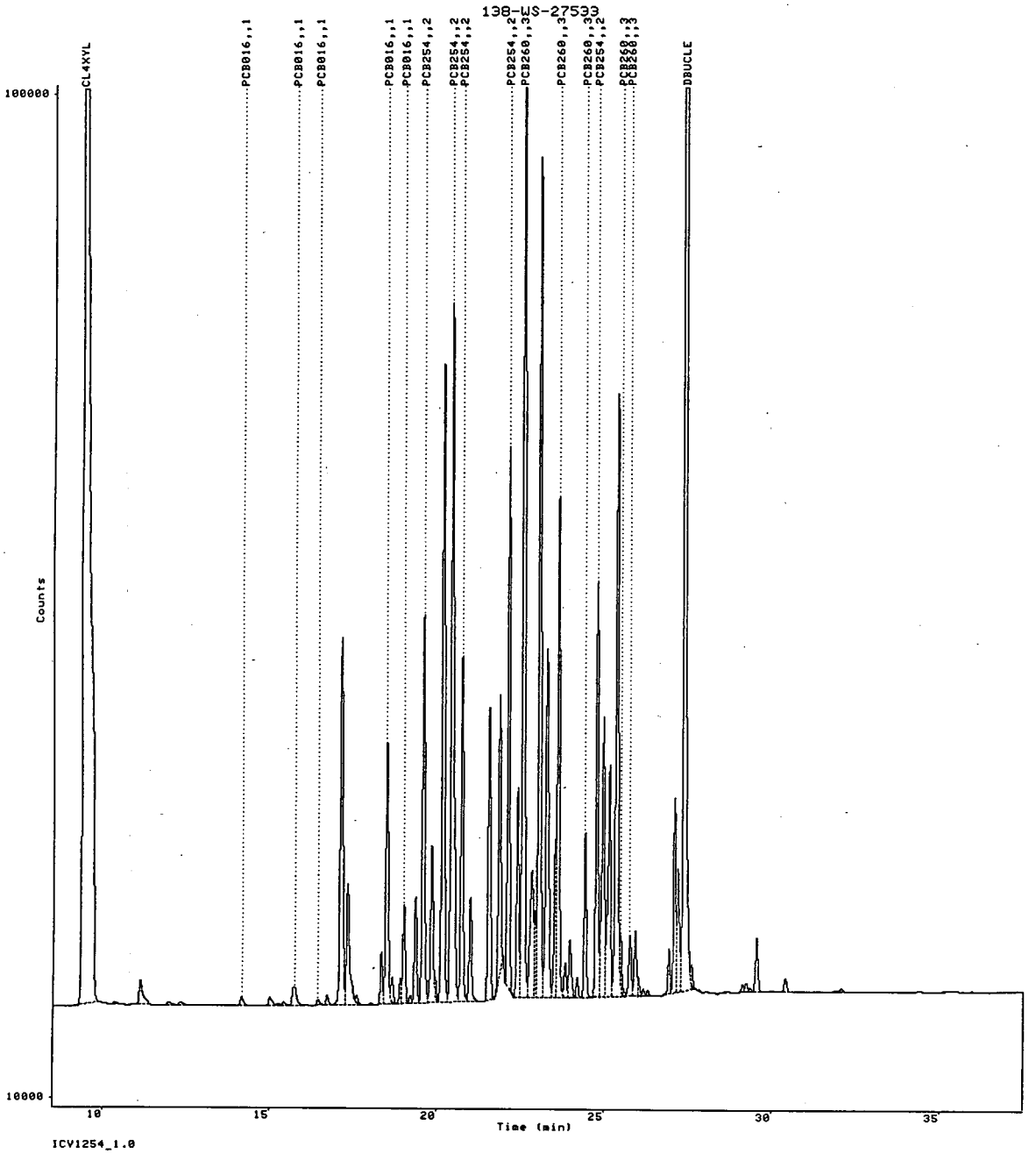
GROUP REPORT

Group	UG/SAMPLE
1	0.1874
2	1.008
3	0.6359

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316047.RAW;1
Report: 1197251534
Acquired: 15-NOV-1997 21:09:04
Time range: 8.50-37.50



0271

Date.....18-NOV-1997 15:58:36.66 User: TAYLORC
Report number.....1197251535
Raw file.....DISK:[TAYLORC]8397316053.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 01:10:50
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
length.....30 M
diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....86
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.395	-1.23	0.1858	155356		BB	
	10.364			61		BB	
	10.896			604		BV	
	11.031			1837		VV	
	11.135			2703		VV	
	11.382			3426		VB	
	12.052			4939		BV	
	12.337			20156		VE	
	12.591			560		EB	
	13.849			3685		BV	
PCB016	14.180	0.18	0.1808	40105		VV	
	14.657			4424		VB	
	15.104			16066		BV	
	15.254			11322		VV	
	15.444			22508		VV	

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PCB016	15.772	0.33	0.1817	70432	VB	1
	16.220			254	BB	
PCB016	16.460	0.05	0.1778	35099	BE	1
	16.732			5198	EV	
	16.916			2621	EV	
	17.028			31665	VV	
	17.137			47229	VV	
	17.335			24824	VV	
	17.470			14723	VV	
	17.613			13215	VE	
	17.893			722	EB	
	18.044			3851	BB	
PCB016	18.495	0.11	0.1802	34355	BV	1
	18.667			14171	VV	
	18.914			13125	VV	
PCB016	19.015	0.28	0.1799	22136	VV	1
	19.229			10353	VV	
	19.358			4821	VV	
	19.466			3199	VV	
PCB254	19.581	0.66	0.03599	7387	VV	2
	19.841			12641	VV	
	20.167			30354	VV	
PCB254	20.425	0.24	0.09675	32821	VE	2
PCB254	20.728	0.65	4.065E-03	1112	EV	2
	20.948			3830	VE	
	21.340			461	EB	
	21.544			2821	BB	
	21.905			2945	BV	
PCB254	22.117	0.45	0.02658	7300	VV	2
	22.201			2265	VV	
PCB260	22.533	1.52	0.1900	51389	VV	3
	22.767			12303	VV	
	22.846			16817	VV	
	22.916			16561	VV	
	23.039			9116	VV	
	23.263			73521	VV	
PCB260	23.610	-0.16	0.1929	108192	VE	3
	23.971			5995	EV	
	24.193			1916	EB	
PCB260	24.422	-0.14	0.1967	44617	BE	3
PCB254	24.767	0.17	2.000E-03-	636	EV	2
	24.972			53583	VV	
	25.149			46448	VV	
	25.361			75378	VV	
PCB260	25.492	-0.09	0.1950	80765	VV	3
PCB260	25.750	0.35	0.1998	44717	VE	3
	25.928			2499	EV	
	26.009			1593	EV	
	26.179			1533	VV	
	26.308			13947	VB	
	26.815			6355	BV	
	26.938			57377	VV	
	27.102			20215	VV	
	27.273			39918	VV	
DBUCLE	27.372	0.57	0.1966	236219	VV	
	27.474			145108	VE	
	27.746			2405	EV	
	27.855			2079	EB	
	28.712			4590	BB	
	29.145			27851	BV	

29.253	11896	VV
29.383	17142	VV
29.562	57995	VE
30.019	1426	EB
30.424	270	BB
30.899	1839	BB
31.563	765	BB
31.922	8897	BV
32.091	18544	VB
34.425	4801	BB
36.838	71826	BB

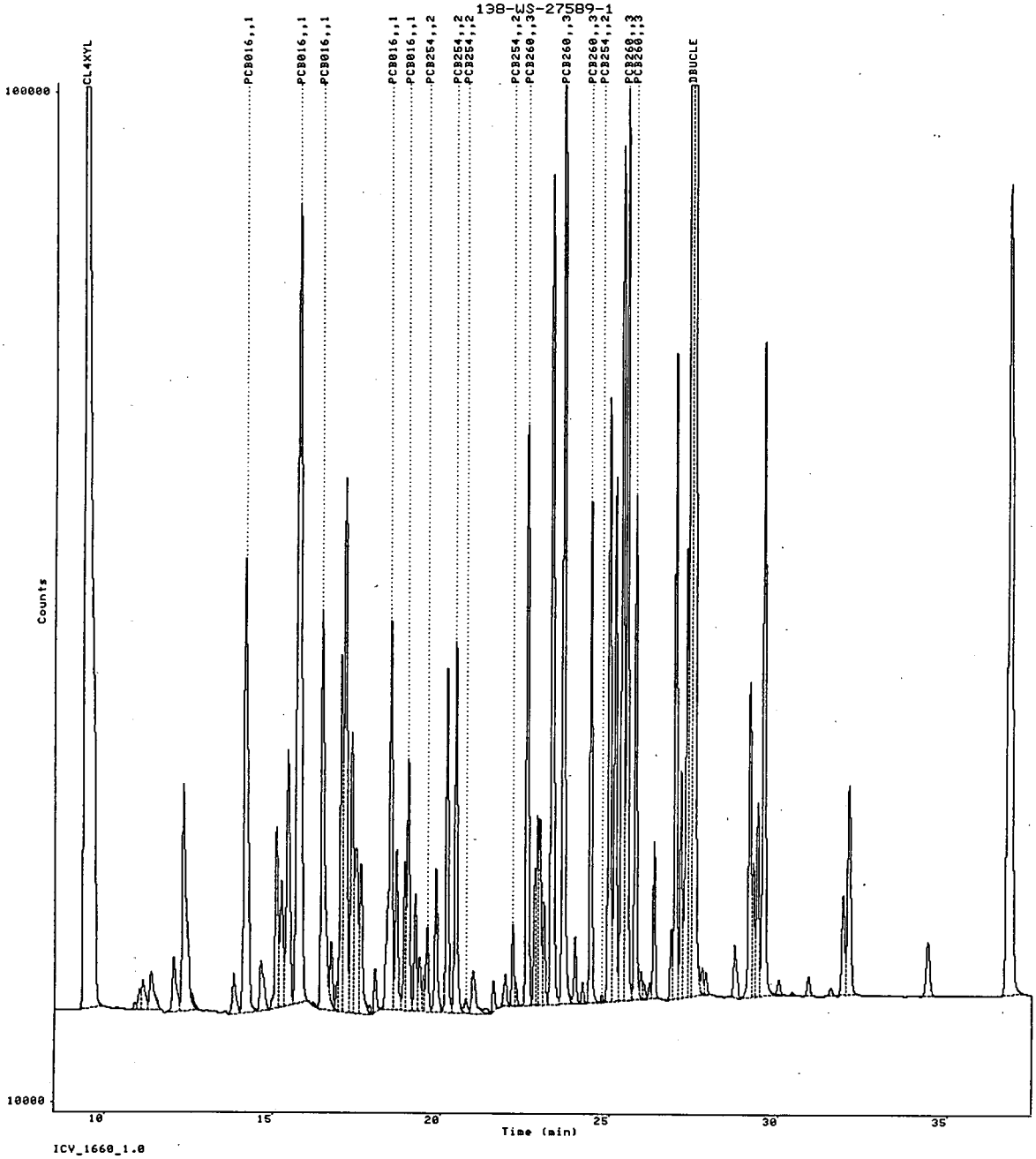
GROUP REPORT

Group	UG/SAMPLE
1	0.9005
2	0.1654
3	0.9744

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316053.RAW;1
Report: 1197251535
Acquired: 16-NOV-1997 01:10:50
Time range: 8.50-37.50



0275

Date.....18-NOV-1997 15:59:44.27 User: TAYLORC
Report number.....1197251548
Raw file.....DISK:[TAYLORC]8397316064.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 08:34:02
Acq. run time.....37.50 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....86
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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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	9.401	-1.54	0.1771	148745		BB	
	10.900			594		BV	
	11.035			1799		VV	
	11.139			2644		VV	
	11.386			3344		VB	
	12.056			4838		BV	
	12.340			19554		VE	
	12.595			555		EB	
	13.602			227		BB	
	13.853			3654		BV	
PCB016	14.183	0.00	0.1815	40229		VV	1
	14.660			4474		VB	
	15.106			15819		BV	
	15.258			11150		VV	
	15.447			22407		VV	

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PCB016	15.776	0.09	0.1799	69834	VB	1
	16.222			228	BB	
PCB016	16.463	-0.12	0.1775	35042	BE	1
	16.734			5124	EV	
	16.917			2611	EV	
	17.031			31277	VV	
	17.140			46559	VV	
	17.338			24671	VV	
	17.474			14573	VV	
	17.615			12910	VE	
	17.895			711	EB	
	18.046			3858	BB	
PCB016	18.499	-0.10	0.1743	33402	BV	1
	18.669			14072	VV	
	18.917			13047	VV	
PCB016	19.019	0.06	0.1781	21933	VV	1
	19.231			10285	VV	
	19.360			4827	VV	
	19.471			3350	VV	
PCB254	19.584	0.47	0.03609	7405	VV	2
	19.843			12654	VV	
	20.169			30187	VV	
PCB254	20.428	0.09	0.09498	32275	VB	2
PCB254	20.733	0.39	4.088E-03	1116	BV	2
	20.950			3494	VB	
	21.346			323	BB	
	21.546			2782	BB	
	21.906			2907	BB	
PCB254	22.118	0.36	0.02655	7291	BV	2
	22.202			2277	VV	
PCB260	22.536	1.34	0.1879	50924	VV	3
	22.769			12320	VV	
	22.849			16453	VV	
	22.918			16104	VV	
	23.042			8850	VV	
	23.266			71469	VV	
PCB260	23.614	-0.42	0.1882	106049	VE	3
	23.973			5800	EV	
	24.196			1876	EB	
PCB260	24.424	-0.26	0.1923	43737	BE	3
PCB254	24.768	0.11	2.020E-03-	640	EV	2
	24.974			52591	VV	
	25.151			46205	VV	
	25.363			74296	VV	
PCB260	25.494	-0.23	0.1899	79000	VV	3
PCB260	25.754	0.13	0.1936	43516	VE	3
	25.930			2435	EV	
	26.012			3150	EV	
	26.179			2555	VV	
	26.309			13650	VB	
	26.817			6312	BV	
	26.940			57395	VV	
	27.103			19552	VV	
	27.275			39347	VV	
DBUCLE	27.375	0.45	0.1898	229127	VV	
	27.476			143151	VE	
	27.749			2336	EV	
	27.857			2066	EB	
	28.713			4766	BV	
	29.147			28343	VV	

29.256	11731	VV
29.385	17070	VV
29.565	57311	VE
30.020	1422	EB
30.431	211	BB
30.902	1838	BB
31.566	771	BB
31.925	8865	BV
32.094	19136	VB
34.431	4972	BB
36.843	72597	BB

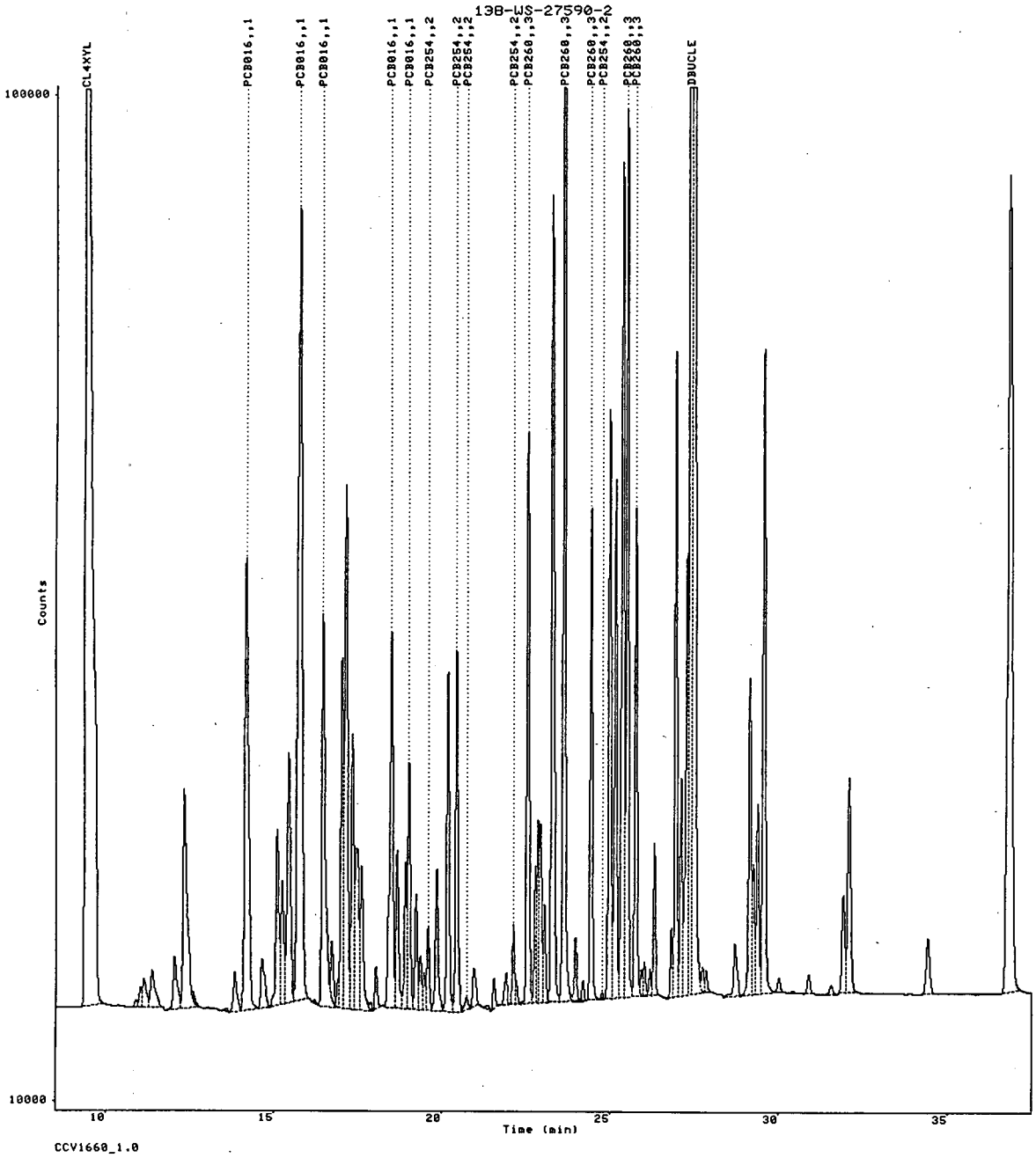
GROUP REPORT

Group	UG/SAMPLE
1	0.8913
2	0.1637
3	0.9518

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316064.RAW;1
Report: 1197251548
Acquired: 16-NOV-1997 08:34:02
Time range: 8.50-37.50



Date.....18-NOV-1997 16:00:41.46 User: TAYLORC
Report number.....1197251559
Raw file.....DISK:[TAYLORC]8397316075.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....16-NOV-1997 15:57:04
Acq. run time.....35.00 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-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....35.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....84
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.401	-1.54	0.2021	167605		BB	
	10.899			650		BV	
	11.035			1928		VV	
	11.140			2900		VV	
	11.388			3737		VB	
	12.055			5361		BV	
	12.341			21402		VE	
	12.597			593		EB	
	13.606			207		BB	
	13.853			3985		BV	
PCB016	14.185	-0.09	0.1976	43108		VV	
	14.663			4830		VB	
	15.108			17168		BV	
	15.258			12096		VV	
	15.449			24423		VV	

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PCB016	15.778	-0.04	0.2001	76320	VB	1
	16.223			250	BB	
PCB016	16.464	-0.18	0.1969	38222	BE	1
	16.735			5603	EV	
	16.920			2842	EV	
	17.032			34025	VV	
	17.141			49878	VV	
	17.339			26975	VV	
	17.474			15872	VV	
	17.617			14101	VE	
	17.898			769	EB	
	18.048			4198	BB	
PCB016	18.499	-0.14	0.1981	37179	BV	1
	18.670			15382	VV	
	18.919			14368	VV	
PCB016	19.021	-0.07	0.1965	23976	VV	1
	19.233			11274	VV	
	19.363			5325	VV	
	19.470			3584	VV	
PCB254	19.586	0.38	0.03993	8138	VV	2
	19.845			13840	VV	
	20.171			32742	VV	
PCB254	20.430	-0.07	0.1054	35457	VE	2
PCB254	20.734	0.28	4.800E-03	1241	EV	2
	20.953			4253	VE	
	21.344			506	EB	
	21.548			3059	BB	
	21.910			3216	BB	
PCB254	22.121	0.20	0.02449	6754	BB	2
PCB260	22.538	1.22	0.2166	57102	BV	3
	22.772			13888	VV	
	22.851			18496	VV	
	22.921			17954	VV	
	23.046			10030	VV	
	23.268			80761	VV	
PCB260	23.615	-0.49	0.2214	120660	VE	3
	23.975			6710	EV	
	24.199			2161	EB	
PCB260	24.427	-0.42	0.2236	49836	BE	3
PCB254	24.771	-0.08	2.393E-03-	714	EV	2
	24.977			60076	VV	
	25.153			52844	VV	
	25.365			86168	VV	
PCB260	25.497	-0.42	0.2267	91121	VV	3
PCB260	25.757	-0.06	0.2319	50765	VE	3
	25.935			2915	EV	
	26.016			3111	EV	
	26.182			2295	VV	
	26.314			16223	VB	
	26.822			7418	BV	
	26.942			66835	VV	
	27.106			23554	VV	
	27.277			45891	VV	
DBUCLE	27.377	0.32	0.2294	269599	VV	
	27.479			171725	VE	
	27.753			2863	EV	
	27.861			2444	EB	
	28.717			5463	BB	
	29.152			34203	BV	
	29.260			14534	VV	

29.389	21012	VV
29.569	69878	VE
30.025	1787	EB
30.437	171	BB
30.907	2294	BB
31.571	982	BB
31.929	11105	BV
32.099	23664	VB
34.435	6254	BB

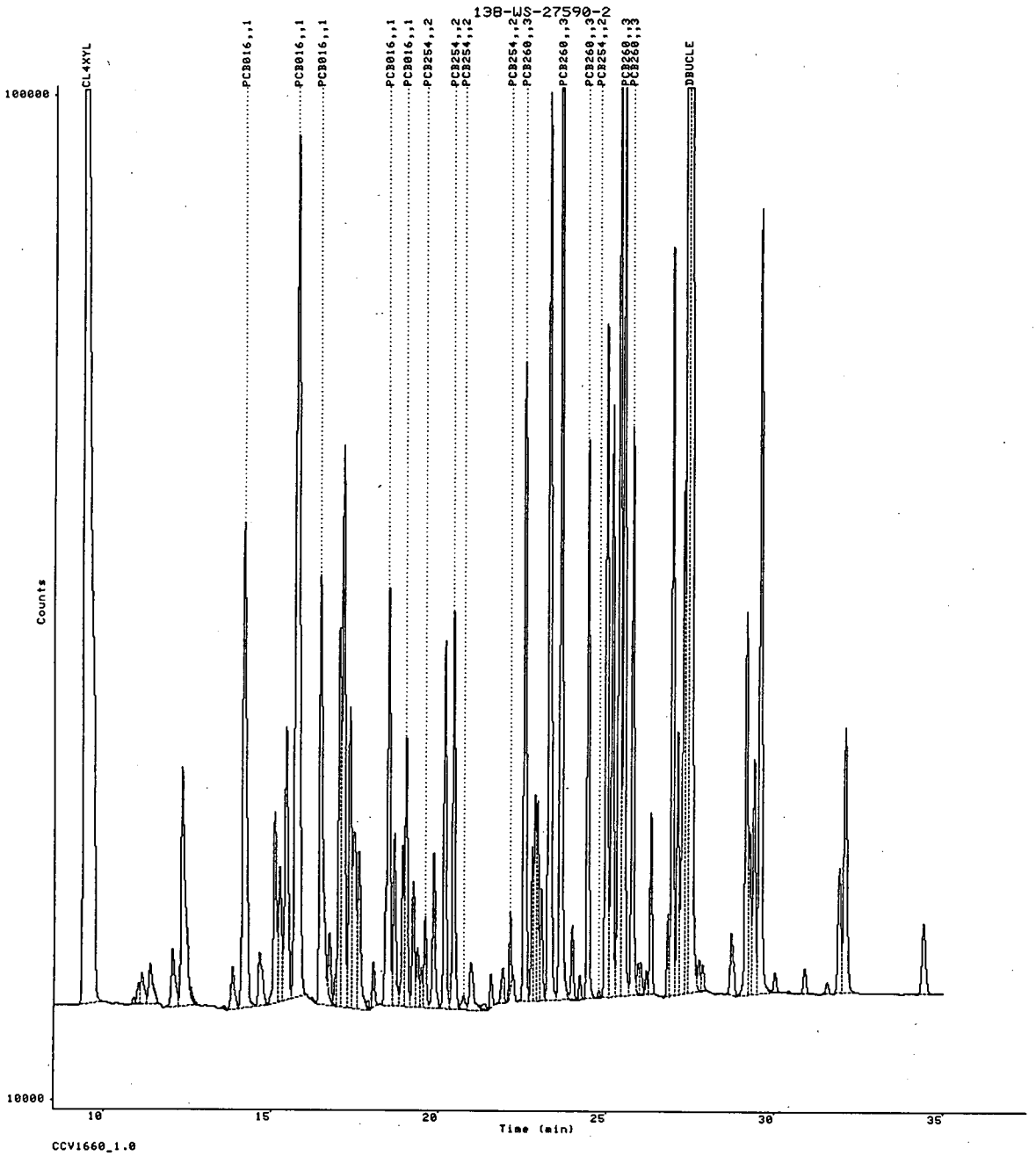
GROUP REPORT

Group	UG/SAMPLE
1	0.9892
2	0.1770
3	1.120

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316075.RAW;1
Report: 1197251559
Acquired: 16-NOV-1997 15:57:04
Time range: 8.50-37.50



12/5/97

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Section 4.
Environmental Organic Analysis
(Rev. 1: 3/95)

Extract Data (Primary Column)
Inventory Checklist

☒ Blank, QC sample(s), MS/MSD(s) {if applicable}, and field sample extracts

☒ Surrogate data (if applicable): the surrogate data consists of the raw data for all extracts

☒ 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.....15-NOV-1997 16:15:14.12 User: TAYLORC
Report number.....1197249595
Raw file.....DISK:[TAYLORC]8397316001.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

11/18/97

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 13:20:38
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

12/5/97

Sample name.....PRIME
Notes.....

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.406	-1.87	0.2818	217907		BB	
	10.915			968		BV	
	11.050			2769		VV	
	11.145			4009		VV	
	11.400			5093		VB	
	12.069			7010		BV	
	12.355			27831		VE	
	12.611			939		EB	
	13.868			5173		BV	
PCB016	14.197	-0.82	0.2770	54413		VV	1
	14.674			5696		VV	
	15.120			22566		VV	
	15.263			14926		VV	
	15.463			31731		VV	
PCB016	15.787	-0.58	0.2774	96847		VV	1

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PCB016	16.475	-0.85	0.2702	47506	VE	1
	16.747			6893	EV	
	16.930			3499	EV	
	17.039			41609	VV	
	17.156			45655	VV	
	17.347			33885	VV	
	17.487			19989	VV	
	17.623			17360	VE	
	17.914			860	EV	
	18.059			5293	VB	
PCB016	18.509	-0.74	0.2775	48002	BV	1
	18.685			21832	VE	
	18.805			2058	EV	
	18.929			19481	VV	
PCB016	19.031	-0.68	0.2782	34320	VV	1
	19.243			16683	VV	
	19.369			13256	VV	
	19.593			20449	VV	
	19.855			27103	VV	
	20.180			43129	VV	
	20.436			45101	VB	
	20.742			1510	BV	
	21.008			3768	VB	
	21.559			4885	BB	
	21.868			2115	BV	
	22.130			9884	VV	
	22.411			323	VV	
PCB260	22.543	-0.84	0.2743	74690	VV	2
	22.778			18728	VV	
	22.855			23351	VV	
	22.931			21975	VV	
	23.048			12758	VV	
	23.276			102422	VV	
PCB260	23.619	-0.71	0.2821	166470	VE	2
	23.983			8725	EV	
	24.208			1613	EV	
PCB260	24.432	-0.69	0.2761	66664	VE	2
	24.777			1003	EV	
	24.984			79442	VV	
	25.157			66449	VV	
	25.370			108166	VV	
PCB260	25.499	-0.56	0.2806	122049	VV	2
PCB260	25.758	-0.11	0.2710	64858	VE	2
	25.935			3717	EV	
	26.199			1584	VV	
	26.316			19043	VB	
	26.826			8490	BV	
	26.946			86433	VV	
	27.110			27967	VV	
	27.283			56711	VV	
DBUCLE	27.387	-0.32	0.2403	285694	VV	
	27.479			208895	VE	
	27.739			5884	EV	
	27.865			3468	EB	
	28.436			64	BB	
	28.725			6208	BB	
	29.154			38688	BV	
	29.263			15717	VV	
	29.391			22954	VV	
	29.573			81646	VE	

30.022	1911	EB
30.910	2200	BB
31.577	897	BB
31.937	11737	BV
32.100	25945	VB
34.436	5642	BB
36.856	569	BB

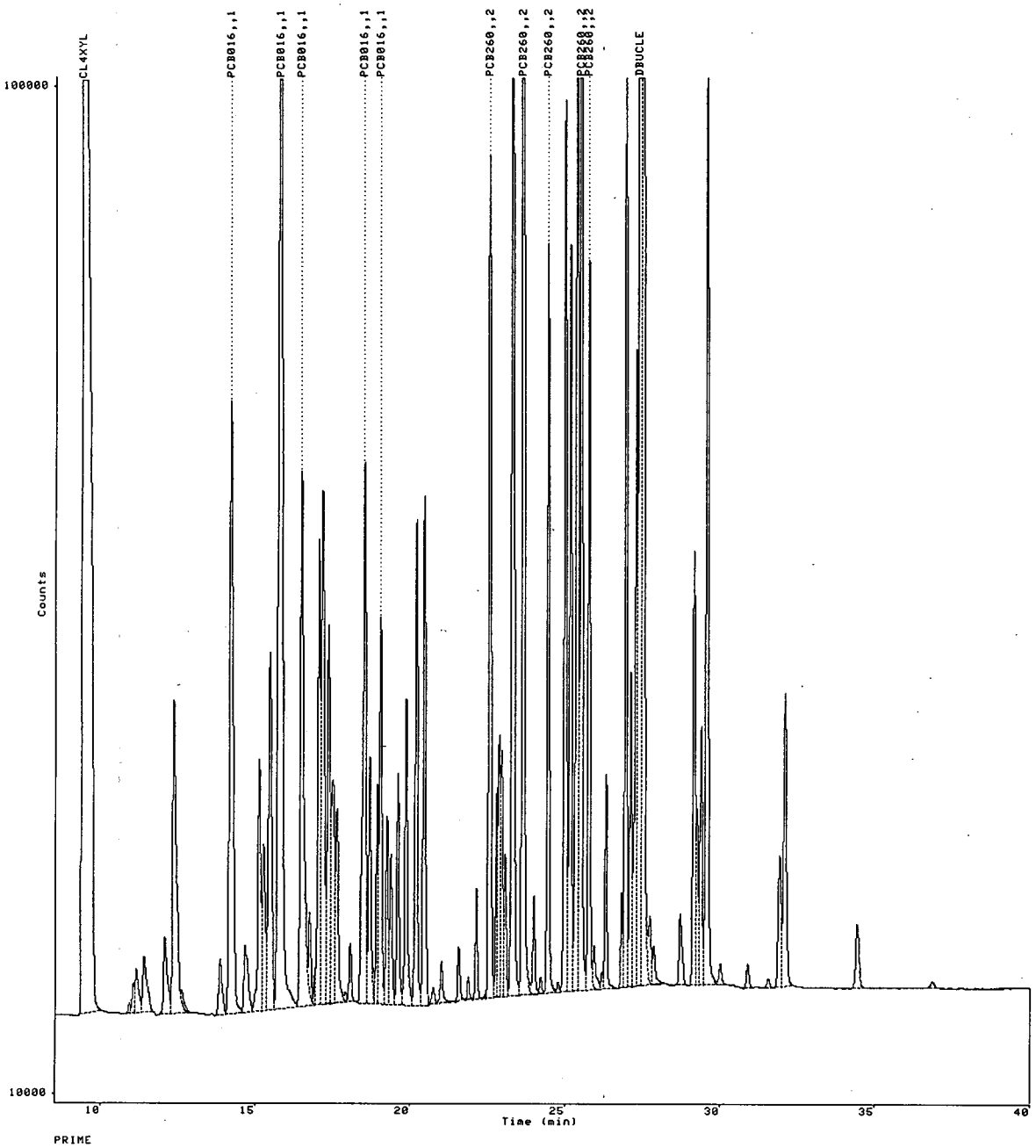
GROUP REPORT

Group	UG/SAMPLE
1	1.380
2	1.384

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316001.RAW;1
Report: 1197249595
Acquired: 12-NOV-1997 13:20:38
Time range: 8.50-40.00



Date.....15-NOV-1997 16:15:47.00 User: TAYLORC
Report number.....1197249602
Raw file.....DISK:[TAYLORC]8397316013.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 22:04:05
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....BL-142006-1
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Samples

Anal. run time.....40.002 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....31
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.18	PCB016	1		
15.78	PCB016	1		
16.46	PCB016	1		
24.42	PCB260	2		
25.76	PCB260	2		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.395	-1.18	19.38	47809			BB	
	10.378			915			BB	
	11.140			633			BB	
	11.623			527			BB	

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	12.675				135	BB	
	12.909				270	BB	
	13.611				106	BB	
	14.352				105	BB	
	15.012				6380	BE	
	15.278				533	EB	
	15.930				518	BB	
	17.154				4668	BB	
	18.060				60	BB	
PCB016	18.505	-0.46	-0.6052	-	99	BB	1
PCB016	19.000	1.17	-0.6341	-	43	BB	1
	20.423				72	BB	
PCB260	22.555	-1.55	-0.5430	-	130	BB	2
	23.040				56	BB	
	23.269				91	BB	
PCB260	23.610	-0.15	-0.6387	-	192	BB	2
	24.795				102	BB	
PCB260	25.362	7.67	-0.2283	-	108	BB	2
	26.019				1197	BV	
	26.180				1445	VB	
	26.485				469	BB	
DBUCLE	27.377	0.33	18.64		70010	BB	
	27.769				227	BB	
	30.437				751	BB	
	30.898				323	BB	
	34.421				706	BB	
	36.839				31888	BB	

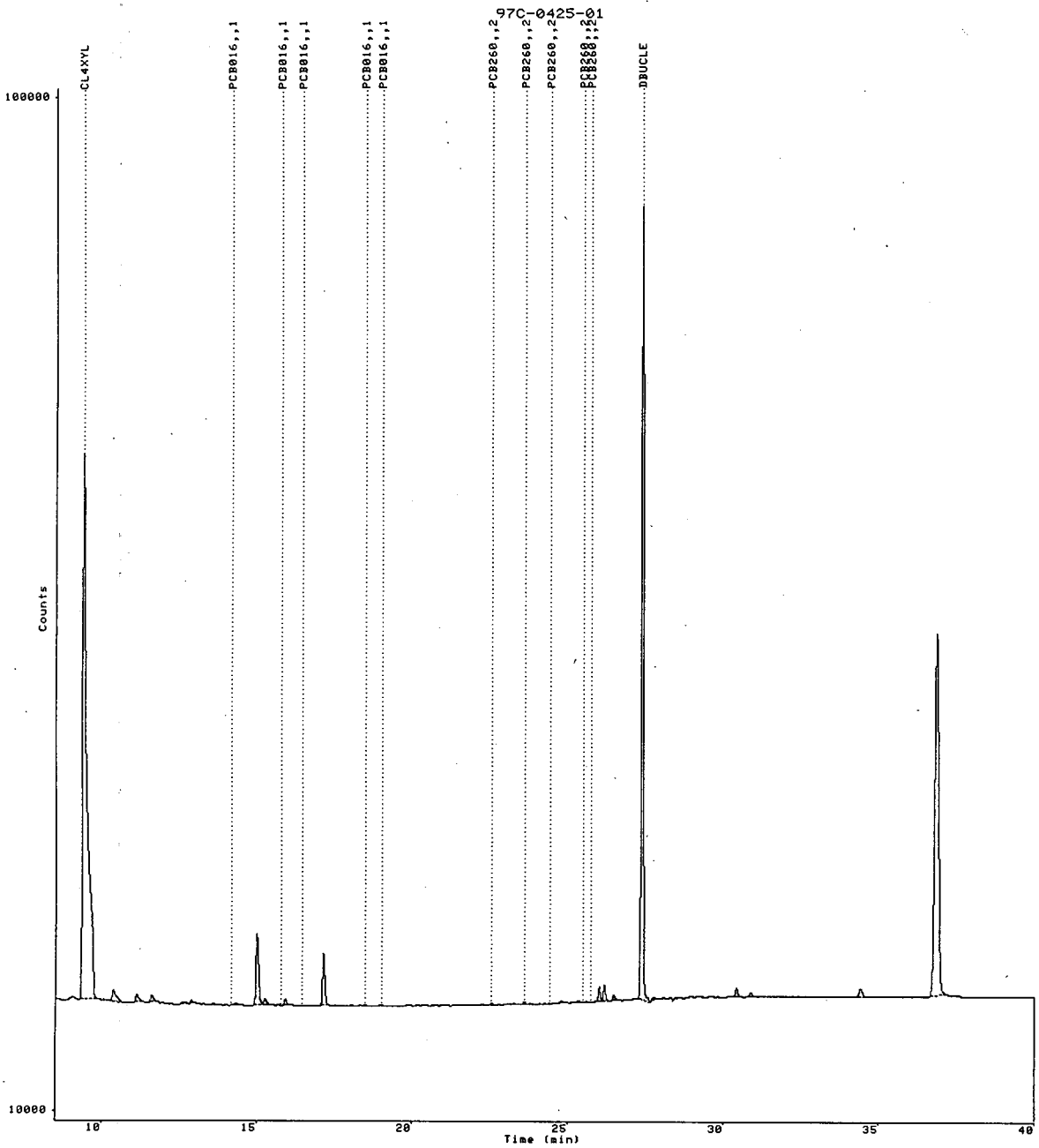
GROUP REPORT

Group	UG/SAMPLE
1	-1.239
2	-1.410

ANALYSIS NOTES

1: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316013.RAW;1
Report: 1197249602
Acquired: 12-NOV-1997 22:04:05
Time range: 8.50-40.00



BL-142006-1

Date.....15-NOV-1997 16:15:50.81 User: TAYLORC
Report number.....1197249603
Raw file.....DISK:[TAYLORC]8397316014.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....12-NOV-1997 22:47:39
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....QC-142006-1
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....89
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.395	-1.17	18.53	45781		BB	
	10.373			231		BB	
	10.900			214		BV	
	11.038			719		VV	
	11.129			794		VB	
	11.386			1335		BB	
	12.055			2156		BV	
	12.340			9787		VE	
	12.604			266		EB	
	13.604			147		BV	
	13.856			1536		VB	
PCB016	14.183	0.01	29.69	20463		BB	
	14.658			1118		BB	
	15.012			4549		BV	
	15.102			8355		VV	

0292

	15.251			5342	VV	
	15.450			11343	VV	
PCB016	15.771	0.33	31.20	36460	VB	1
PCB016	16.461	0.03	31.43	18360	BE	1
	16.735			2469	EV	
	16.917			1150	EV	
	17.026			15161	VV	
	17.132			15437	VV	
	17.335			12476	VV	
	17.472			6891	VV	
	17.612			6412	VE	
	17.910			267	EV	
	18.045			1825	VB	
PCB016	18.497	0.00	31.01	18311	BV	1
	18.670			8044	VE	
	18.792			735	EV	
	18.916			7177	VV	
PCB016	19.018	0.14	33.22	13135	VV	1
	19.229			5794	VV	
	19.354			5002	VV	
	19.578			8074	VV	
	19.841			9925	VV	
	20.168			18672	VV	
	20.424			19693	VE	
	20.728			732	EB	
	20.993			1173	BB	
	21.546			2194	BB	
	21.854			1314	BB	
	22.116			5044	BB	
	22.280			99	BV	
	22.396			137	VV	
PCB260-3	22.534	-0.31	32.17	29625	VV	2
	22.767			6830	VV	
	22.847			8909	VV	
	22.922			8676	VV	
	23.037			7274	VV	
	23.265			39822	VV	
PCB260-4	23.608	-0.06	31.90	63739	VE	2
	23.972			3353	EV	
	24.196			673	EB	
PCB260-5	24.423	-0.19	31.44	23821	BB	2
	24.765			659	BV	
	24.974			29756	VV	
	25.147			24782	VV	
	25.361			44093	VV	
PCB260 -1	25.491	-0.06	29.29	42075	VV	2
PCB260 -2	25.750	0.35	31.16	23649	VE	2
	25.927			1623	EV	
	26.019			1067	EV	
	26.181			3032	VV	
	26.307			6199	VE	
	26.484			485	EB	
	26.817			2765	BV	
	26.939			30448	VV	
	27.100			10658	VV	
	27.273			20011	VV	
DBUCLE	27.378	0.25	18.59	69822	VV	
	27.471			74665	VE	
	27.733			1638	EV	
	27.855			1012	EB	

28.716	2610	BB
29.144	13133	BV
29.250	5748	VV
29.380	8252	VV
29.563	29540	VB
30.010	778	BB
30.429	242	BB
30.899	792	BB
31.254	214	BB
31.559	336	BB
31.924	4380	BV
32.087	8896	VB
34.422	2236	BB
36.840	31096	BB

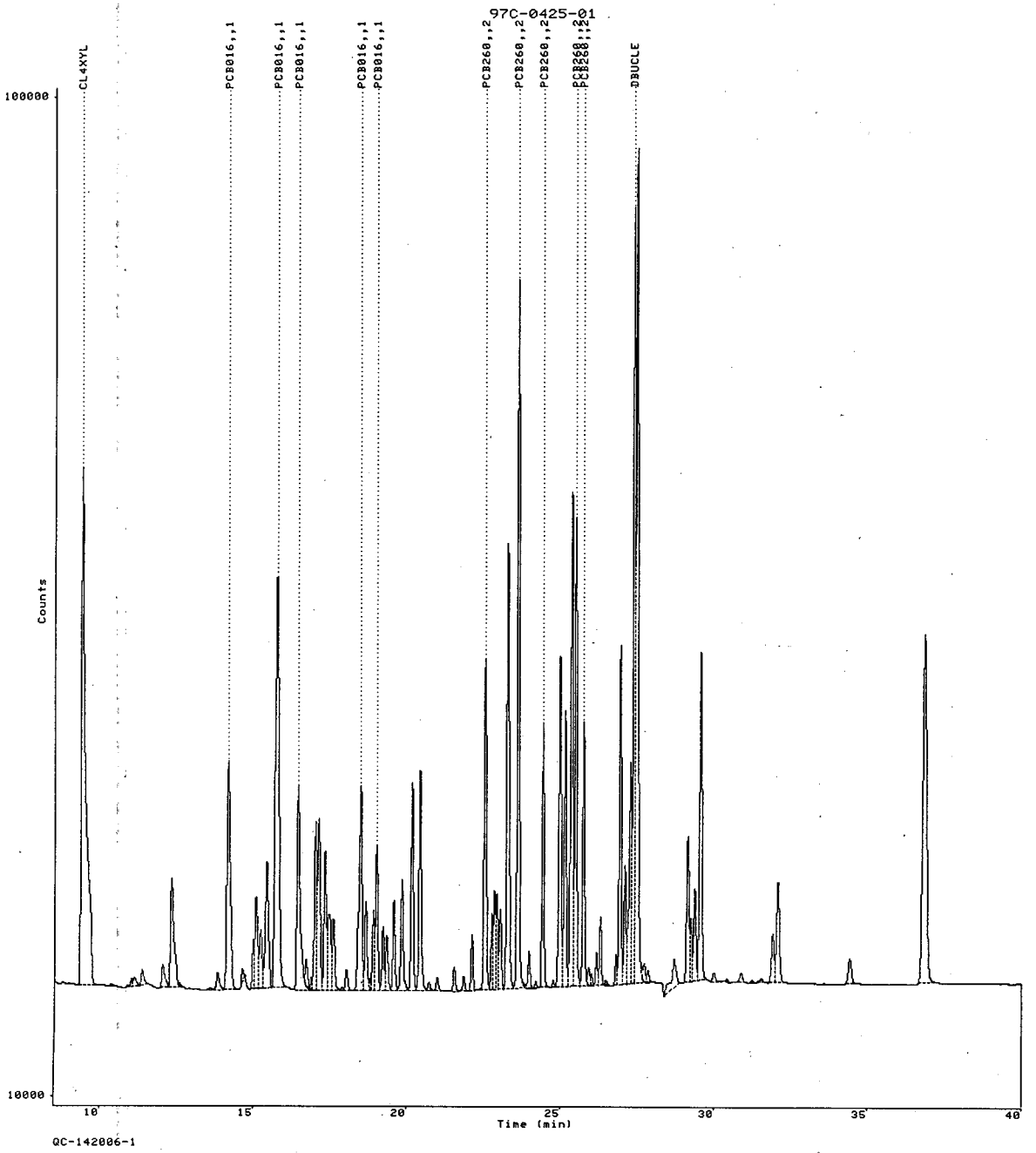
GROUP REPORT

Group	UG/SAMPLE
1	156.5
2	156.0

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316014.RAW;1
Report: 1197249603
Acquired: 12-NOV-1997 22:47:39
Time range: 8.50-40.00



Date.....15-NOV-1997 16:15:55.28 User: TAYLORC
Report number.....1197249604
Raw file.....DISK:[TAYLORC]8397316015.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 09:22:24
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05000
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....117
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
15.78	PCB016	1		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.407	-1.91	17.57	43467			BE	
	10.013			168			EB	
	10.173			1350			BB	
	11.066			42809			BE	
	11.386			4376			EV	
	11.703			4829			EV	
	12.070			5428			VV	
	12.253			41918			VV	

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	12.564				124952	VE	
	12.847				8529	EV	
	13.304				68	VB	
	13.452				8892	BV	
	13.659				6046	VV	
	13.773				4217	VB	
PCB016	14.185	-0.14	-0.5451	-	238	BB	1
	14.403				407	BB	
	14.607				93	BV	
	14.758				111590	VV	
	15.237				104986	VV	
	15.962				161423	VV	
PCB016	16.457	0.23	120.5		60504	VE	1
	16.750				2790	EV	
	16.970				975	EV	
	17.150				260685	VV	
	17.348				169275	VV	
	17.486				111565	VE	
	17.665				13583	EV	
	17.877				11596	VV	
	17.984				28151	VE	
	18.205				2602	EV	
PCB016	18.512	-0.89	189.0	+	79336	VV	1
	18.689				118799	VE	
	18.929				21939	EV	
PCB016	19.035	-0.92			257927	VE	1
	19.219				9297	EV	
	19.373				105410	VV	
	19.597				819940	VV	
	19.855				510274	VV	
	20.183				974667	VV	
	20.452				983631	VV	
	20.754				968960	VV	
	21.012				265843	VE	
	21.264				22328	EV	
	21.429				15387	EV	
	21.572				365889	VV	
	21.875				907137	VE	
	21.992				115689	EV	
	22.135				975374	VV	
	22.417				977336	VV	
PCB260	22.576	-2.83			972503	VV	2
	22.835				666150	VV	
	23.061				968756	VV	
	23.295				968134	VV	
PCB260	23.633	-1.59			974015	VE	2
	23.853				142444	EV	
	23.993				301026	VV	
	24.212				147931	VV	
PCB260	24.440	-1.22			974956	VE	2
	24.578				44230	EV	
	24.780				973577	VV	
	24.972				968906	VV	
	25.161				973556	VV	
	25.377				970535	VV	
PCB260	25.506	-0.97			500215	VE	2
	25.627				82138	EV	
PCB260	25.788	-1.90			622252	VV	2
	25.942				501794	VV	
	26.051				167084	VV	

	26.221				163876	VV
	26.326				91178	VE
	26.458				12633	EV
	26.528				17354	EV
	26.710				26043	VV
	26.840				34078	VV
	26.954				426832	VV
	27.117				970294	VV
	27.211				972097	VV
DBUCLE	27.492	-6.61	371.7	+	975110	VV
	27.628				332773	VV
	27.742				110504	VV
	27.946				148395	VV
	28.270				74685	VV
	28.469				37872	VV
	28.718				23720	VV
	28.943				22169	VV
	29.164				78022	VV
	29.272				135300	VV
	29.400				58650	VV
	29.581				612838	VE
	29.911				38334	EV
	30.038				39181	EV
	30.360				13327	VV
	30.443				13699	VV
	30.555				33752	VV
	30.918				10681	VV
	31.087				13843	VV
	31.244				3972	VV
	31.576				4503	VV
	31.944				27862	VV
	32.107				53463	VE
	32.326				1588	EB
	32.677				12113	BB
	33.062				3757	BB
	33.422				825	BV
	33.577				482	VV
	33.855				869	VB
	34.171				315	BV
	34.444				20024	VB
	35.015				115	BB
	35.262				372	BB
	35.833				680	BB
	36.862				30927	BB
	37.398				241	BV
	37.614				1825	VB
	38.136				2400	BV
	38.418				1259	VB
	38.932				15232	BB

GROUP REPORT

Group	UG/SAMPLE
1	308.9

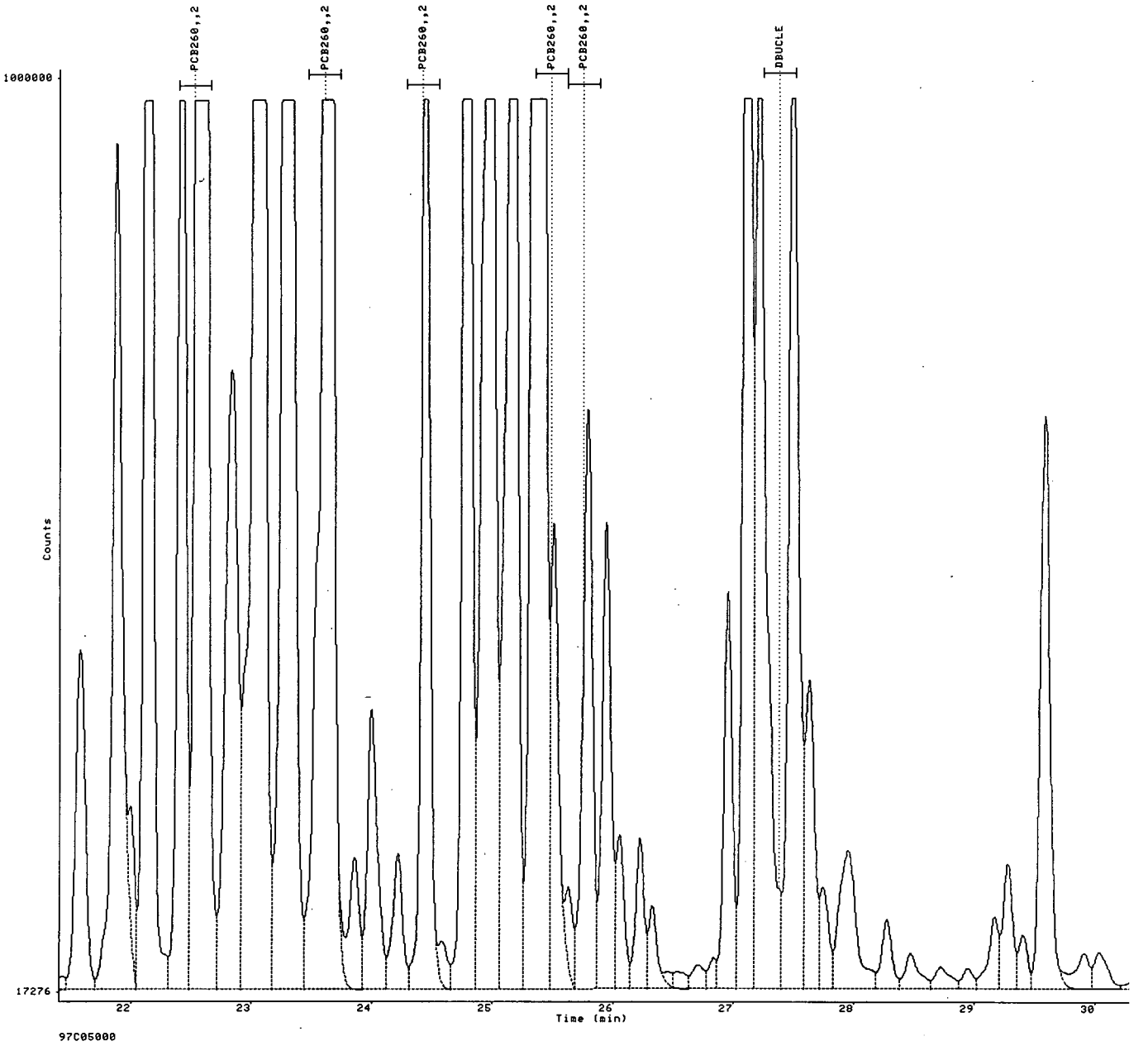
0298

ANALYSIS NOTES

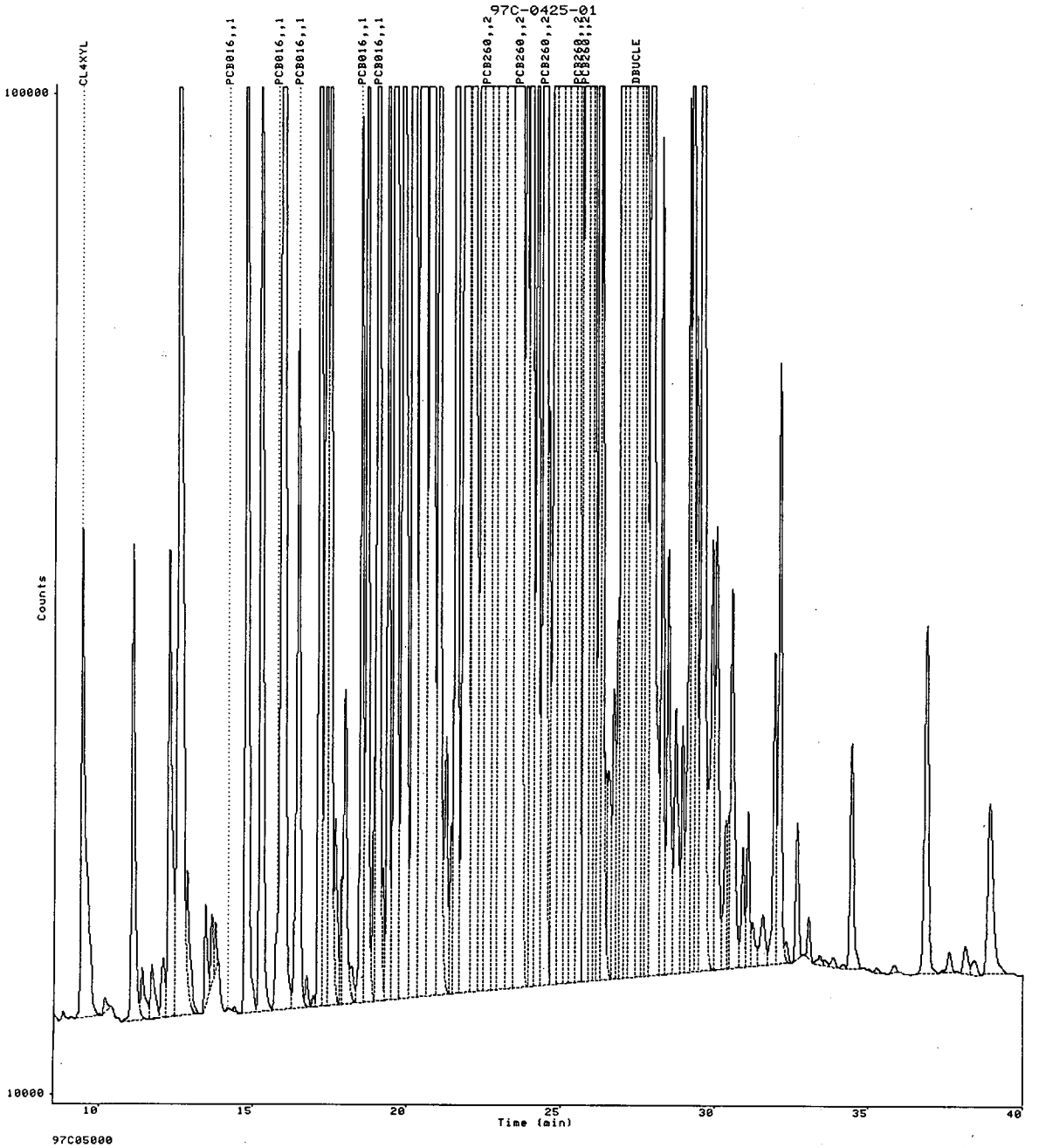
1: WARNING: Peak windows overlap. Check peak identification. (245)

2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316015.RAW;1
Report: 1197249604
Acquired: 13-NOV-1997 09:22:24
Time range: 21.40-30.29



Data file: DISK:[TAYLORC]8397316015.RAW;1
Report: 1197249604
Acquired: 13-NOV-1997 09:22:24
Time range: 8.50-40.00



0301

Date.....15-NOV-1997 16:16:00.91 User: TAYLORC
Report number.....1197249605
Raw file.....DISK:[TAYLORC]8397316016.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 10:06:52
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05001
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....119
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.400	-1.51	14.46	35972			BB	
	10.021			193			BB	
	10.156			1804			BV	
	10.285			522			VB	
	11.054			6819			BB	
	11.392			5630			BB	
	11.695			17598			BB	
	12.077			60302			BE	
	12.554			3620			EB	
	12.986			2447			BB	
	13.501			14476			BB	
	13.863			899			BB	
PCB016	14.191	-0.48	0.4297 -	929			BV	
	14.292			1157			VB	
	14.513			151			BV	

0302
1

	14.598			358	VB	
	14.761			277	BB	
	15.007			1781	BV	
	15.236			5677	VV	
	15.442			4185	VB	
PCB016	15.788	-0.65	3.908	5728	BV	1
	15.959			2670	VV	
	16.228			1948	VV	
PCB016	16.466	-0.29	3.068	2311	VB	1
	16.746			1666	BB	
	16.957			500	BV	
	17.046			1380	VV	
	17.152			13640	VB	
	17.351			9420	BV	
	17.470			6244	VE	
	17.662			740	EB	
	17.870			522	BV	
	17.987			3993	VV	
	18.078			6168	VV	
PCB016	18.510	-0.77	16.74	10341	VV	1
	18.683			4686	VV	
	18.886			11851	VV	
PCB016	19.038	-1.08	24.33	9769	VE	1
	19.232			887	EV	
	19.369			6706	VV	
	19.488			10219	VV	
	19.600			19270	VB	
	19.880			16798	BV	
	20.187			120231	VV	
	20.297			89319	VV	
	20.471			59293	VV	
	20.608			31393	VV	
	20.789			48039	VV	
	20.874			65051	VE	
	21.050			13772	EV	
	21.339			59546	VV	
	21.572			22228	VV	
	21.939			66462	VV	
	22.150			45546	VV	
	22.427			28878	VV	
PCB260	22.584	-3.28		162039	VE	2
	22.850			24749	EV	
	23.059			105801	VV	
	23.282			75108	VV	
PCB260	23.634	-1.59	73.74	135601	VV	2
	23.800			35416	VV	
	24.046			27419	VV	
	24.219			39585	VV	
PCB260	24.437	-1.05	57.12	42385	VV	2
	24.639			12426	VV	
	24.783			53902	VV	
	24.978			57955	VV	
	25.162			68118	VV	
	25.392			211876	VE	
PCB260	25.503	-0.80	16.54	24348	EV	2
	25.628			6542	EV	
PCB260	25.776	-1.20	38.40	28939	VV	2
	25.944			19527	VV	
	26.065			13865	VV	
	26.222			12503	VV	

	26.322			9728	VV
	26.495			6341	VV
	26.576			6426	VV
	26.719			5271	VV
	26.830			5982	VV
	26.954			24871	VV
	27.113			53582	VV
	27.218			26353	VV
	27.284			21436	VV
DBUCLE	27.397	-0.90	12.71	47919	VV
	27.493			55593	VE
	27.630			7792	EV
	28.039			21584	VV
	28.280			5760	VV
	28.473			3621	VV
	28.717			4180	VV
	29.164			11225	VV
	29.279			6420	VV
	29.403			6806	VV
	29.584			27835	VE
	29.889			2017	EV
	30.108			1949	EV
	30.450			2626	VV
	30.578			1851	VV
	30.914			2733	VV
	31.065			1176	VV
	31.354			1531	VV
	31.604			952	VB
	31.936			2261	BV
	32.107			4382	VB
	32.666			569	BB
	32.939			271	BB
	33.266			1628	BV
	33.598			1454	VB
	34.439			2652	BB
	34.825			331	BB
	35.136			140	BB
	36.306			529	BB
	36.865			20357	BB
	37.684			291	BB
	38.162			8313	BV
	38.407			3518	VB
	38.936			45644	BE
	39.721			966	EB

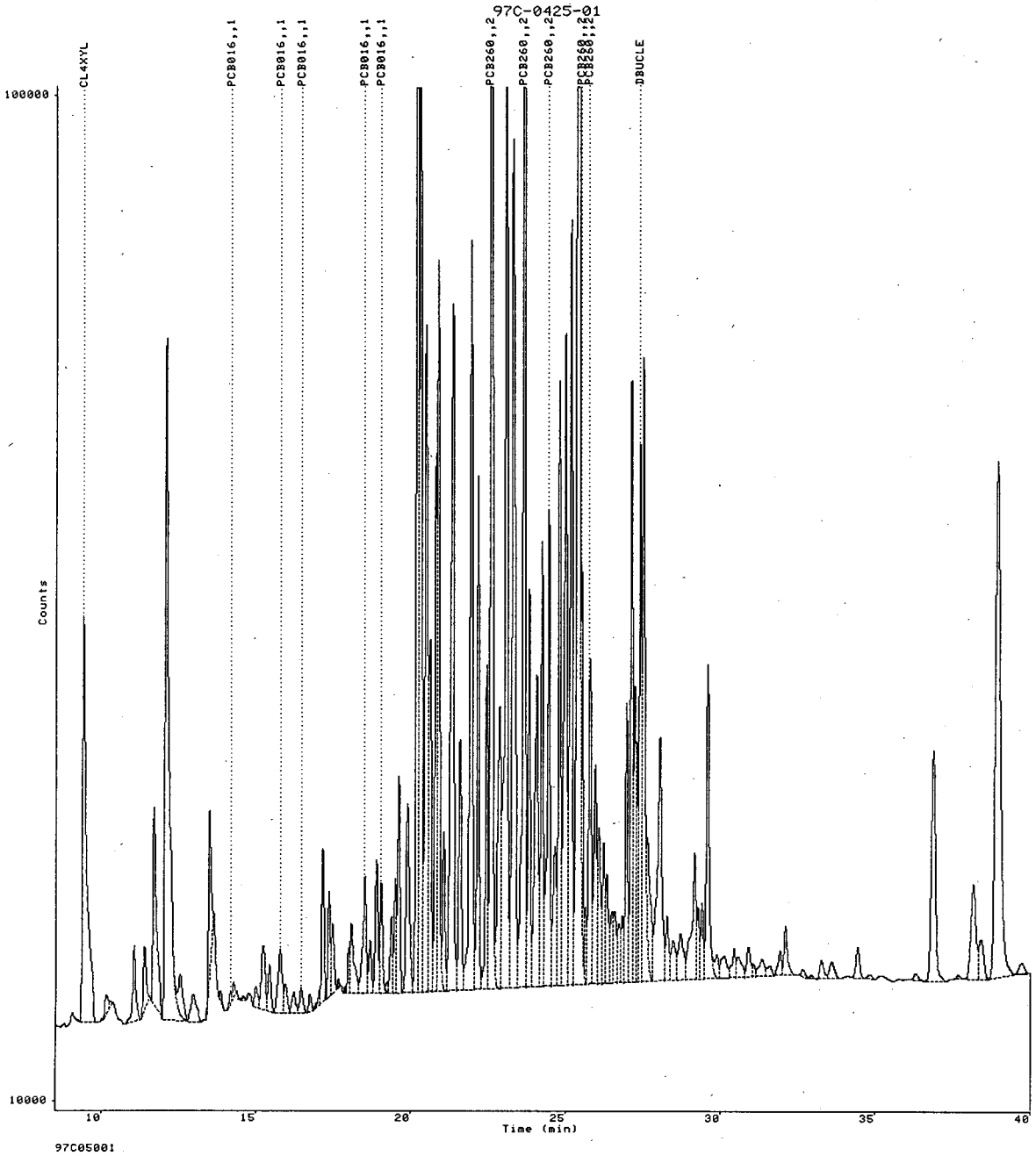
GROUP REPORT

Group	UG/SAMPLE
1	48.48
2	185.8

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316016.RAW;1
Report: 1197249605
Acquired: 13-NOV-1997 10:06:52
Time range: 8.50-40.00



Date.....15-NOV-1997 16:16:05.67 User: TAYLORC
Report number.....1197249606
Raw file.....DISK:[TAYLORC]8397316017.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 10:51:37
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05002
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
length.....30 M
diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 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.....9.200 min
No. peaks found.....122
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
Analysis fit.....Quadratic
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000

A/D range.....1.0 volt(s)

Origin treatment....Ignore

Conversion factor...3.33333E+02

==========

EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.398	-1.39	16.88	41800			BB	
	10.023			261			BV	
	10.151			2126			VV	
	10.369			1531			VE	
	10.631			296			EB	
	11.055			13378			BV	
	11.400			8103			VV	
	11.693			10132			VV	
	12.075			27492			VE	
	12.549			2676			EB	
	12.981			1407			BB	
	13.304			73			BB	
	13.496			21235			BB	0306
	14.032			390			BV	
PCB016	14.189	-0.36	1.237	1499			VV	1 [illegible]

12/10/97

	14.294				3086	VV	
	14.515				9012	VE	
	14.747				722	EV	
	14.815				982	EV	
	14.999				1832	EV	
	15.250				3315	VV	
	15.443				6224	VB	
PCB016	15.784	-0.44	2.512		4093	BV	1
	15.953				2280	VV	
	16.202				921	VV	
PCB016	16.463	-0.13	2.036		1703	VB	1
	16.744				2502	BV	
	16.937				1423	VV	
	17.034				1085	VV	
	17.145				16225	VV	
	17.344				13939	VV	
	17.463				9633	VE	
	17.653				1916	EV	
	17.737				2440	VV	
	17.862				931	VV	
	17.980				2848	VV	
	18.087				3251	VV	
PCB016	18.507	-0.61	18.48		11330	VV	1
	18.680				4640	VV	
	18.900				5766	VV	
PCB016	19.029	-0.56	21.02		8506	VE	1
	19.229				1110	EV	
	19.363				5563	VV	
	19.486				4571	VV	
	19.592				17179	VB	
	19.856				13899	BB	
	20.178				61372	BV	
	20.288				29768	VV	
	20.449				44345	VV	
	20.758				35366	VV	
	20.856				23248	VV	
	21.020				10633	VV	
	21.290				39518	VE	
	21.416				1141	EV	
	21.565				16158	VE	
	21.723				1469	EV	
	21.928				58327	VV	
	22.136				31828	VB	
	22.414				19007	BV	
PCB260	22.573	-2.66	136.7	+	101831	VE	2
	22.831				14647	EV	
	23.051				79377	VV	
	23.277				44657	VV	
PCB260	23.625	-1.05	42.27		82578	VE	2
	23.791				8499	EV	
	24.035				14535	VV	
	24.215				24038	VV	
PCB260	24.433	-0.76	26.40		20102	VV	2
	24.629				5559	VV	
	24.777				33823	VV	
	24.976				33996	VV	
	25.158				41346	VV	
	25.391				150031	VE	
PCB260	25.499	-0.57	8.823		13326	EV	2
	25.622				2671	EV	

0307

~~0306~~

BR 12/10/87

PCB260	25.770	-0.83	21.73	16661	VV	2
	25.940			10966	VV	
	26.060			8233	VV	
	26.218			10034	VV	
	26.314			2987	VB	
	26.498			542	BB	
	26.724			980	BV	
	26.829			1307	VB	
	26.951			11430	BB	
	27.109			25444	BV	
	27.211			8363	VB	
DBUCLE	27.391	-0.55	11.13	41986	BV	
	27.487			27104	VE	
	27.624			2701	EB	
	28.032			11247	BB	
	28.266			2688	BB	
	28.475			1103	BV	
	28.714			2735	VB	
	29.159			6480	BV	
	29.269			2826	VV	
	29.395			3413	VV	
	29.578			15488	VB	
	29.886			505	BB	
	30.100			607	BB	
	30.450			5970	BE	
	30.590			800	EB	
	30.910			1721	BV	
	31.066			562	VV	
	31.360			1084	VV	
	31.594			718	VB	
	31.932			1374	BV	
	32.106			2935	VB	
	32.678			501	BB	
	32.937			155	BB	
	33.257			992	BB	
	33.597			1208	BB	
	34.105			57	BB	
	34.437			2496	BB	
	34.761			139	BB	
	35.122			244	BB	
	36.348			354	BB	
	36.859			24086	BB	
	37.666			132	BB	
	38.143			6143	BV	
	38.399			2766	VB	
	38.926			33548	BE	
	39.716			648	EB	

GROUP REPORT

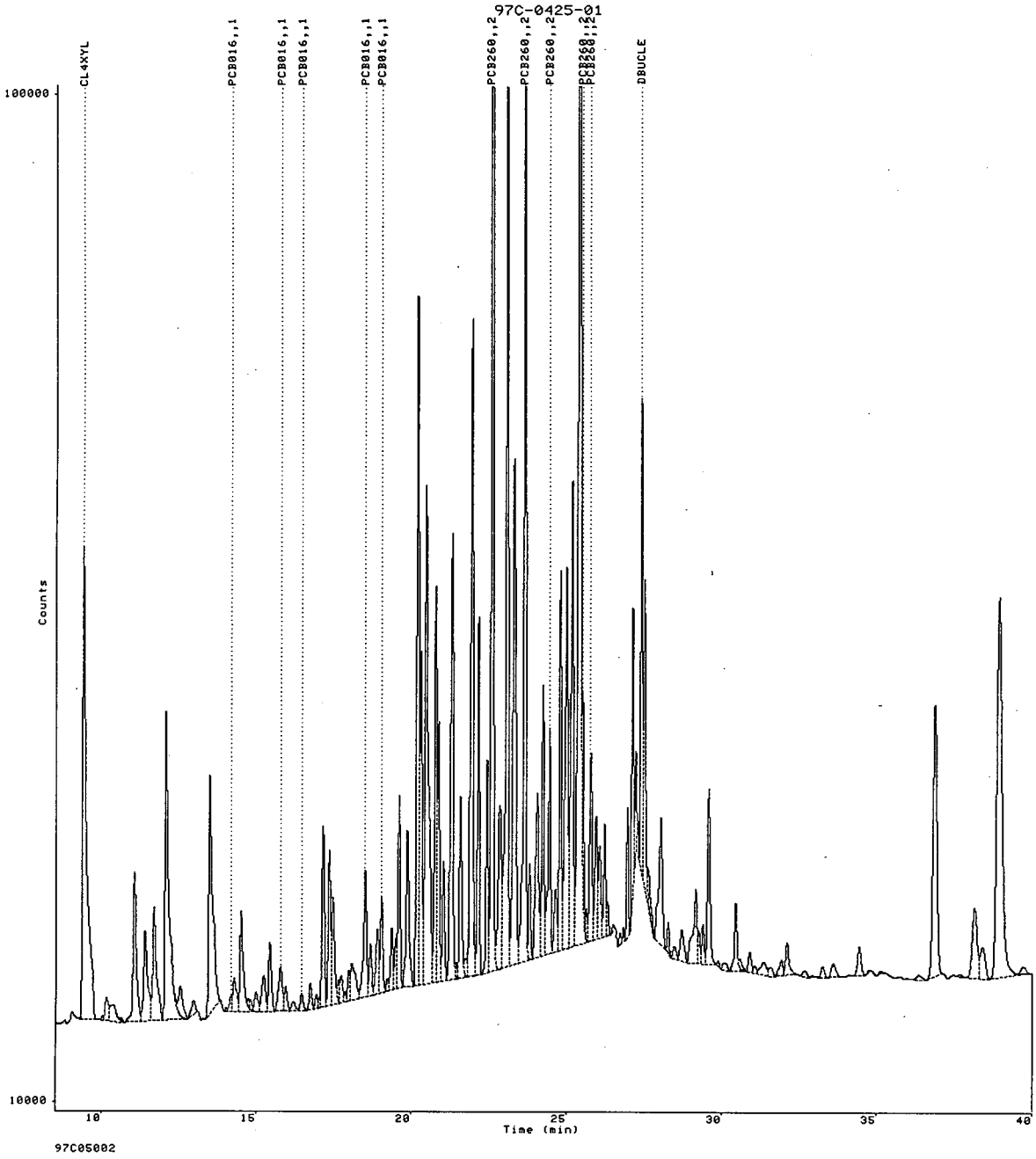
Group	UG/SAMPLE
1	45.28
2	235.9

0308

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316017.RAW;1
Report: 1197249606
Acquired: 13-NOV-1997 10:51:37
Time range: 8.50-40.00



0310

Date.....15-NOV-1997 16:16:10.60 User: TAYLORC
Report number.....1197249607
Raw file.....DISK:[TAYLORC]8397316018.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 11:36:08
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05003
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

See reprint.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....109
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.401	-1.54	15.92	39498			BE	
	9.930			159			EV	
	10.153			2515			EV	
	10.368			2078			EB	
	11.086			49310			BE	
	11.402			5976			EV	
	11.693			7857			EB	
	12.078			24863			BE	
	12.548			1983			EB	
	12.983			1005			BB	
	13.501			7222			BB	
	14.043			88			BB	
PCB016	14.302	-7.13	5.252	4309			BB	1
	14.522			966			BB	
	14.825			977			BV	

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	15.032			427	VB	
	15.249			1655	BV	
	15.449			8909	VB	
PCB016	15.766	0.67	-0.1424 -	966	BV	1
	15.957			1860	VB	
	16.249			613	BV	
PCB016	16.464	-0.17	0.9970	1089	VB	1
	16.737			590	BB	
	16.961			192	BB	
	17.157			5498	BV	
	17.351			2820	VV	
	17.479			2173	VB	
	17.763			9279	BB	
	17.975			938	BB	
	18.161			2234	BB	
PCB016	18.506	-0.55	3.145	2364	BB	1
	18.688			1100	BB	
	18.882			1655	BV	
PCB016	19.035	-0.89	6.813	2988	VB	1
	19.367			1344	BV	
	19.593			6522	VB	
	19.863			3600	BB	
	20.183			15517	BV	
	20.291			7902	VV	
	20.455			11736	VV	
	20.539			5243	VB	
	20.765			13961	BB	
	21.026			2827	BB	
	21.302			53266	BB	
	21.569			4357	BB	
	21.933			72718	BE	
	22.140			9599	EB	
	22.316			796	BV	
	22.416			9516	VV	
PCB260	22.578	-2.93	55.18	48403	VE	2
	22.819			8397	EV	
	23.055			32264	VV	
	23.277			24632	VV	
PCB260	23.625	-1.09	21.50	44141	VE	2
	23.792			1547	EB	
	24.044			13949	BV	
	24.213			14386	VV	
PCB260	24.430	-0.61	8.947	7068	VV	2
	24.633			4843	VV	
	24.778			12191	VV	
	24.981			19160	VV	
	25.159			20652	VV	
	25.396			103614	VE	
PCB260	25.499	-0.56	5.848	9016	EV	2
	25.619			1403	EV	
PCB260	25.761	-0.31	14.04	10869	VV	2
	25.944			6573	VV	
	26.059			7606	VB	
	26.218			7738	BB	
	26.489			829	BB	
	26.729			1151	BV	
	26.828			1604	VV	
	26.951			6794	VV	
	27.109			15356	VV	
	27.214			8909	VV	

	27.275			7549	VV
DBUCLE	27.392	-0.60	12.81	48276	VV
	27.485			18423	VV
	28.037			14764	VE
	28.265			2921	EV
	28.478			1297	EV
	28.708			1682	VB
	29.155			5609	BV
	29.266			1591	VV
	29.395			2755	VV
	29.580			8652	VB
	29.885			395	BB
	30.136			555	BB
	30.354			563	BV
	30.447			1419	VV
	30.614			951	VB
	30.908			1704	BB
	31.208			293	BV
	31.362			982	VV
	31.567			685	VB
	31.923			815	BV
	32.102			1875	VB
	32.640			228	BB
	33.254			1083	BB
	33.594			690	BB
	34.434			2150	BB
	34.830			185	BB
	35.125			170	BB
	36.857			22600	BB
	37.669			273	BB
	38.143			6571	BV
	38.400			2751	VB
	38.925			33441	BE
	39.709			694	EB

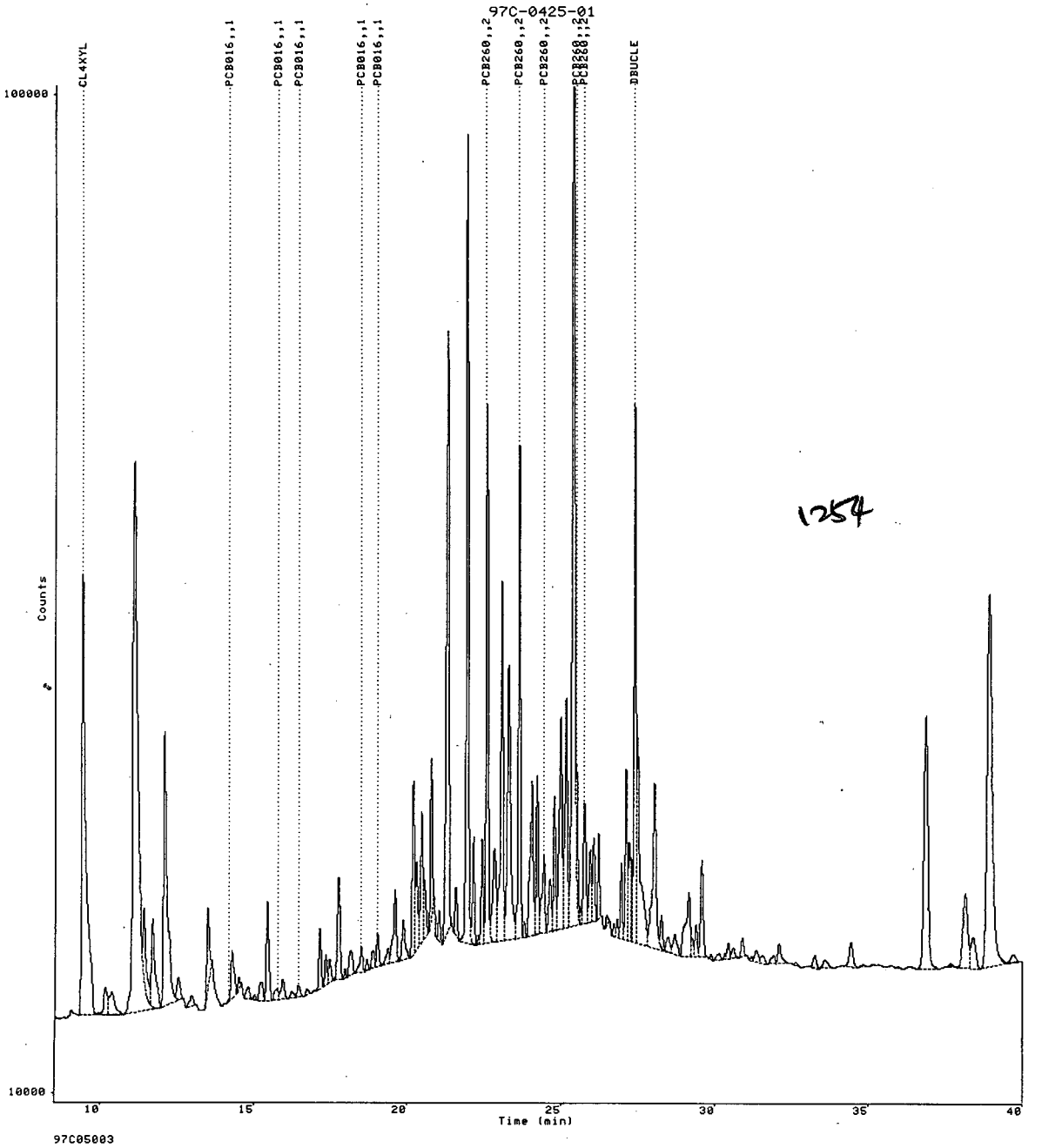
GROUP REPORT

Group	UG/SAMPLE
1	16.06
2	105.5

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316018.RAW;1
Report: 1197249607
Acquired: 13-NOV-1997 11:36:08
Time range: 8.50-40.00



1254

Date.....18-NOV-1997 18:49:04.24 User: TAYLORC
Report number.....1197251783
Raw file.....DISK:[TAYLORC]8397316018.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....5

Acq. date.....13-NOV-1997 11:36:08
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Re-printed Report.

Sample name.....97C05003
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
length.....30 M
diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

97C05003

Anal. run time.....37.506 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.401	-1.54	14.67	39498		BE	
	9.930			159		EV	
	10.153			2515		EV	
	10.368			2078		EB	
	11.086			49310		BE	
	11.402			5976		EV	
	11.693			7857		EB	
	12.078			24863		BE	
	12.548			1983		EB	
	12.983			1005		BB	
	13.501			7222		BB	
	14.043			88		BB	

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PCB016	14.302	-7.13	5.071		4309	BB	1
	14.522				966	BB	
	14.825				977	BV	
	15.032				427	VB	
	15.249				1655	BV	
	15.449				8909	VB	
PCB016	15.766	0.67	0.1734	-	966	BV	1
	15.957				1860	VB	
	16.249				613	BV	
PCB016	16.464	-0.17	1.172	-	1089	VB	1
	16.737				590	BB	
	16.961				192	BB	
	17.157				5498	BV	
	17.351				2820	VV	
	17.479				2173	VB	
	17.763				9279	BB	
	17.975				938	BB	
	18.161				2234	BB	
PCB016	18.506	-0.55	3.143		2364	BB	1
	18.688				1100	BB	
	18.882				1655	BV	
PCB016	19.035	-0.89	6.945		2988	VB	1
	19.367				1344	BV	
PCB254-1	19.593	-0.08	10.49		6522	VB	2
	19.863				3600	BB	
	20.183				15517	BV	
	20.291				7902	VV	
PCB254-2	20.455	-1.55	10.45		11736	VV	2
	20.539				5243	VB	
PCB254-3	20.765	-1.59	27.18		13961	BB	2
	21.026				2827	BB	
	21.302				53266	BB	
	21.569				4357	BB	
	21.933				72718	BE	
PCB254-4	22.140	-0.93	11.81		9599	EB	2
	22.316				796	BV	
	22.416				9516	VV	
PCB260	22.578	-1.19	58.91		48403	VE	3
	22.819				8397	EV	
	23.055				32264	VV	
	23.277				24632	VV	
PCB260	23.625	-1.09	23.16		44141	VE	3
	23.792				1547	EB	
	24.044				13949	BV	
	24.213				14386	VV	
PCB260	24.430	-0.61	9.362		7068	VV	3
	24.633				4843	VV	
PCB254-5	24.778	-0.48	20.57		12191	VV	2
	24.981				19160	VV	
	25.159				20652	VV	
	25.396				103614	VE	
PCB260	25.499	-0.56	6.236		9016	EV	3
	25.619				1403	EV	
PCB260	25.761	-0.31	14.70		10869	VV	3
	25.944				6573	VV	
	26.059				7606	VB	
	26.218				7738	BB	
	26.489				829	BB	

0316

	26.729			1151	BV
	26.828			1604	VV
	26.951			6794	VV
	27.109			15356	VV
	27.214			8909	VV
	27.275			7549	VV
DBUCLE	27.392	-0.60	12.36	48276	VV
	27.485			18423	VV
	28.037			14764	VE
	28.265			2921	EV
	28.478			1297	EV
	28.708			1682	VB
	29.155			5609	BV
	29.266			1591	VV
	29.395			2755	VV
	29.580			8652	VB
	29.885			395	BB
	30.136			555	BB
	30.354			563	BV
	30.447			1419	VV
	30.614			951	VB
	30.908			1704	BB
	31.208			293	BV
	31.362			982	VV
	31.567			685	VB
	31.923			815	BV
	32.102			1875	VB
	32.640			228	BB
	33.254			1083	BB
	33.594			690	BB
	34.434			2150	BB
	34.830			185	BB
	35.125			170	BB
	36.857			22600	BB

GROUP REPORT

Group	UG/SAMPLE
1	16.50
2	80.50
3	112.4

AR 1254

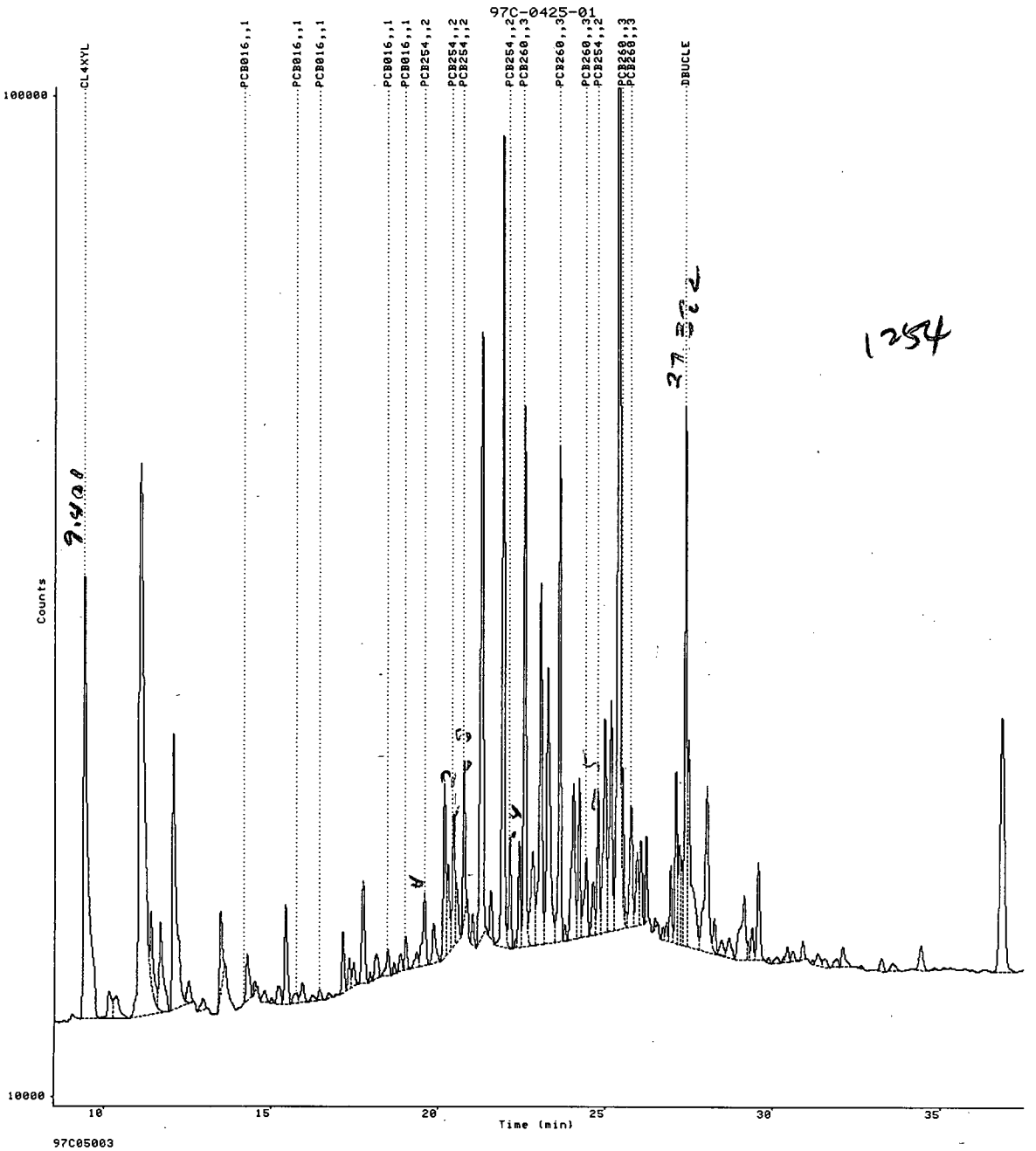
best match PCB-1260

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

0317

Data file: DISK:[TAYLORC]8397316018.RAW;1
Report: 1197251783
Acquired: 13-NOV-1997 11:36:08
Time range: 8.50-37.50



Date.....15-NOV-1997 16:16:15.08 User: TAYLORC
Report number.....1197249608
Raw file.....DISK:[TAYLORC]8397316019.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 12:20:28
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05004
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....126
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.396	-1.24	15.21	37788			BB	
	10.008			179			BB	
	10.142			379			BB	
	10.421			717			BB	
	10.649			1769			BB	
	11.042			5619			BV	
	11.385			3300			VV	
	11.691			21119			VV	
	12.071			7415			VV	
	12.226			2589			VV	
	12.556			4340			VB	
	12.887			133			BB	
	13.273			167			BB	
	13.494			4983			BB	
	13.851			603			BB	

0319

PCB016	14.186	-0.20	5.520		4495	BV	1
	14.281				4021	VV	
	14.506				5803	VV	
	14.658				2144	VV	
	14.742				3392	VB	
	14.976				13394	BV	
	15.243				11207	VV	
	15.434				10385	VV	
PCB016	15.783	-0.35	10.52		13385	VV	1
	15.961				4890	VV	
	16.177				4710	VB	
PCB016	16.454	0.41	5.380		3667	BB	1
	16.740				11144	BV	
	16.928				5865	VV	
	17.030				4553	VV	
	17.139				41157	VV	
	17.341				39394	VV	
	17.457				24486	VV	
	17.655				7587	VV	
	17.860				6441	VV	
	17.980				14033	VV	
	18.051				17109	VB	
	18.285				1710	BV	
PCB016	18.502	-0.28	49.74		28158	VV	1
	18.670				13234	VV	
	18.901				15074	VV	
PCB016	19.025	-0.32	39.32		15414	VE	1
	19.216				2108	EV	
	19.352				26361	VV	
	19.483				12551	VV	
	19.588				42780	VB	
	19.854				41257	BV	
	20.171				325902	VV	
	20.284				130825	VV	
	20.435				174353	VV	
	20.536				75887	VV	
	20.738				120442	VV	
	20.841				165584	VE	
	21.002				25429	EV	
	21.236				16025	VB	
	21.410				930	BV	
	21.554				73091	VV	
	21.863				72022	VV	
	22.124				127412	VB	
	22.406				66344	BV	
PCB260	22.566	-2.24			356940	VV	2
	22.839				48896	VV	
	23.045				251873	VV	
	23.275				159081	VV	
PCB260	23.619	-0.69	208.4	+	291866	VE	2
	23.784				42492	EV	
	23.989				30536	VV	
	24.207				34966	VE	
	24.321				4835	EV	
PCB260	24.431	-0.65	122.1		86704	VE	2
	24.584				1525	EB	
	24.775				110997	BV	
	24.972				122421	VV	
	25.156				139035	VV	
	25.374				328558	VE	

PCB260	25.498	-0.47	31.39	44933	EV	2
	25.622			2614	EB	
PCB260	25.774	-1.07	60.18	44433	BV	2
	25.933			26557	VE	
	26.050			2424	EB	
	26.213			2314	BV	
	26.314			7038	VB	
	26.462			372	BV	
	26.569			725	VB	
	26.708			1019	BV	
	26.827			3406	VV	
	26.948			42999	VV	
	27.105			111734	VV	
	27.207			61887	VV	
DBUCLE	27.381	0.04	12.82	48341	VV	
	27.483			108457	VE	
	27.622			13124	EV	
	27.736			7336	EV	
	27.939			7654	VV	
	28.259			2894	VB	
	28.456			1092	BB	
	28.719			2217	BV	
	28.921			1695	VV	
	29.039			1813	VV	
	29.157			13934	VV	
	29.267			9885	VV	
	29.392			8608	VV	
	29.575			53600	VE	
	29.892			756	EV	
	30.036			1844	EV	
	30.449			14920	VE	
	30.682			1221	EB	
	30.915			1832	BE	
	31.070			346	EB	
	31.568			444	BB	
	31.933			3751	BV	
	32.102			7885	VB	
	32.690			444	BB	
	32.939			107	BB	
	34.436			3250	BB	
	35.273			452	BB	
	35.718			250	BB	
	35.986			61	BB	
	36.278			283	BB	
	36.853			17343	BE	
	37.141			1362	EV	
	37.367			1039	EV	
	37.720			799	VV	
	38.118			1163	VV	
	38.376			529	VB	
	38.915			6766	BB	

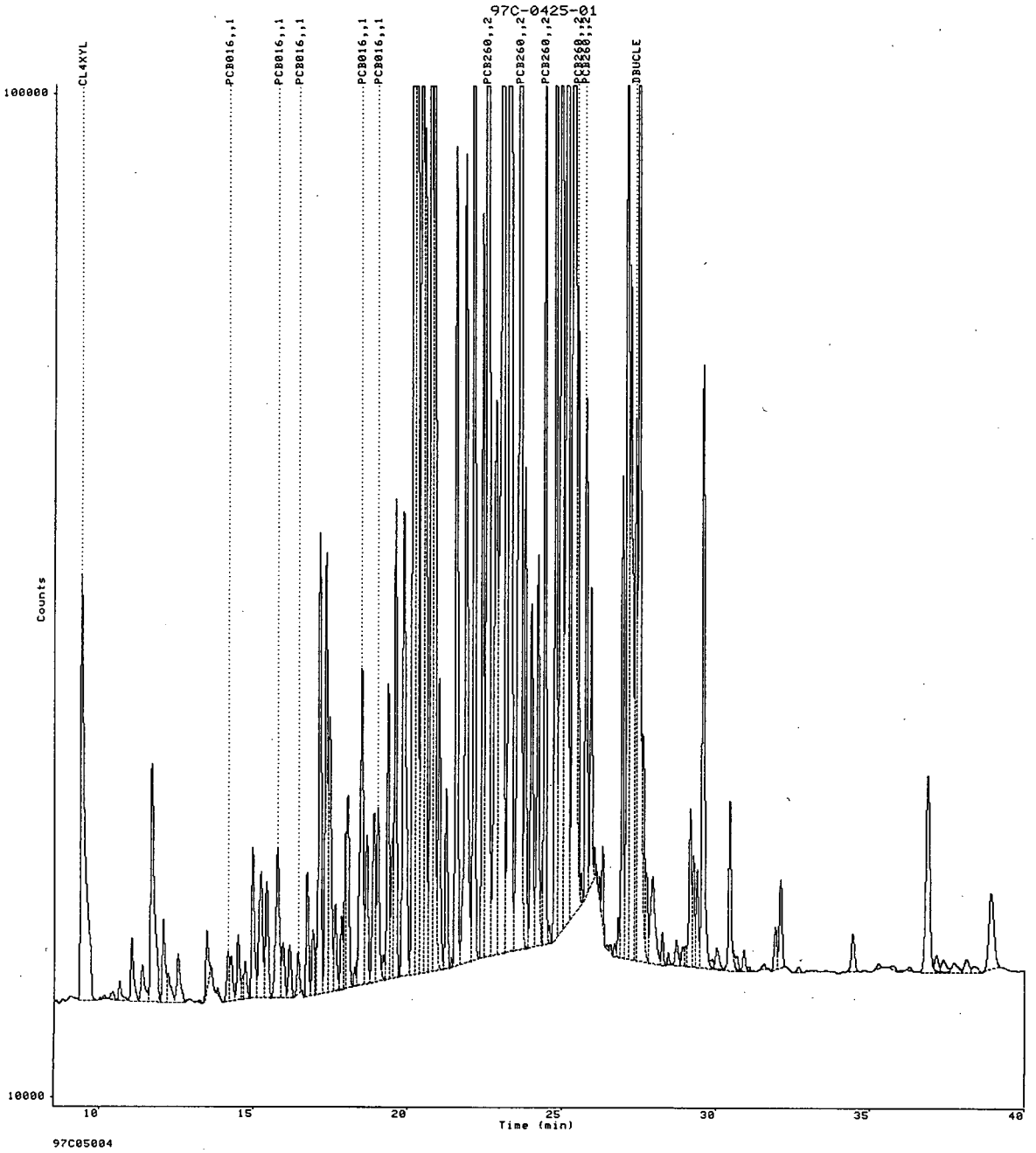
GROUP REPORT

Group	UG/SAMPLE
1	110.5
2	422.0

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316019.RAW;1
Report: 1197249608
Acquired: 13-NOV-1997 12:20:28
Time range: 8.50-40.00



Date.....15-NOV-1997 16:16:20.85 User: TAYLORC
Report number.....1197249609
Raw file.....DISK:[TAYLORC]8397316020.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 13:05:07
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05005
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....124
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.400	-1.51	16.28	40359			BB	
	10.012			142			BB	
	10.149			418			BB	
	10.426			779			BB	
	10.652			2161			BB	
	11.047			7400			BV	
	11.376			1875			VV	
	11.695			23777			VB	
	12.074			6227			BE	
	12.234			879			EB	
	12.560			4809			BB	
	12.886			142			BB	
	13.296			380			BB	
	13.496			6554			BV	
	13.616			4373			VV	

	13.855				1565	VB	
PCB016	14.191	-0.46	7.160		5629	BE	1
	14.458				249	EB	
	14.670				3117	BV	
	14.746				4822	VV	
	14.980				18127	VV	
	15.196				69045	VE	
	15.409				6073	EB	
PCB016	15.786	-0.52	12.73		15923	BV	1
	15.974				5939	VV	
	16.179				7492	VB	
PCB016	16.459	0.12	6.285		4195	BB	1
	16.744				16212	BV	
	16.930				9163	VV	
	17.033				6022	VV	
	17.143				51910	VV	
	17.343				51584	VV	
	17.462				34514	VV	
	17.657				10014	VV	
	17.859				9457	VV	
	17.985				19896	VV	
	18.052				23070	VE	
	18.286				2953	EV	
PCB016	18.505	-0.47	67.64		36908	VV	1
	18.672				18559	VV	
	18.910				19354	VV	
PCB016	19.029	-0.52	51.03		19720	VE	1
	19.211				3559	EV	
	19.353				35003	VV	
	19.485				14266	VV	
	19.591				49087	VV	
	19.856				50026	VV	
	20.174				402482	VV	
	20.287				151008	VV	
	20.438				206809	VV	
	20.536				93897	VV	
	20.742				146802	VV	
	20.845				193241	VE	
	21.006				31558	EV	
	21.239				20328	VE	
	21.414				3116	EV	
	21.557				96674	VV	
	21.867				88717	VV	
	22.129				152935	VV	
	22.408				81698	VV	
PCB260	22.570	-2.47			426954	VE	2
	22.848				60785	EV	
	22.947				51829	VV	
	23.049				281807	VV	
	23.278				193472	VV	
PCB260	23.621	-0.86	294.4	+	331782	VE	2
	23.786				51166	EV	
	23.989				37112	EV	
	24.209				44991	VE	
	24.325				8382	EV	
PCB260	24.434	-0.85	149.2	+	104066	VE	2
	24.587				5294	EV	
	24.777				121954	VV	
	24.975				147855	VV	
	25.158				168539	VV	

	25.376			379837	VE	
PCB260	25.498	-0.49	35.39	50343	EV	2
	25.623			9528	EV	
PCB260	25.777	-1.24	80.93	58612	VV	2
	25.936			39719	VV	
	26.053			11881	VV	
	26.120			9452	VV	
	26.217			9094	VV	
	26.316			12031	VE	
	26.466			2144	EV	
	26.580			2806	EV	
	26.712			3014	VV	
	26.830			5131	VV	
	26.950			47768	VV	
	27.106			130290	VV	
	27.210			69105	VV	
DBUCLE	27.382	-0.02	13.27	50000	VV	
	27.485			114376	VE	
	27.620			13673	EV	
	27.741			7878	EV	
	27.939			8317	VV	
	28.262			3425	VV	
	28.460			1971	VV	
	28.719			4304	VV	
	28.923			2195	VV	
	29.158			16509	VV	
	29.271			11890	VV	
	29.389			9874	VV	
	29.575			58854	VE	
	29.900			1208	EV	
	30.035			2459	EV	
	30.452			19394	VE	
	30.684			1281	EB	
	30.918			1970	BE	
	31.072			291	EB	
	31.560			385	BB	
	31.937			3610	BV	
	32.101			7416	VB	
	32.715			917	BB	
	32.937			116	BB	
	34.438			3681	BB	
	35.275			371	BB	
	36.284			272	BB	
	36.855			16786	BE	
	37.144			1293	EV	
	37.375			674	EV	
	37.731			555	VB	
	38.121			754	BB	
	38.920			5586	BB	

GROUP REPORT

Group	UG/SAMPLE
1	144.8
2	560.0

ANALYSIS NOTES

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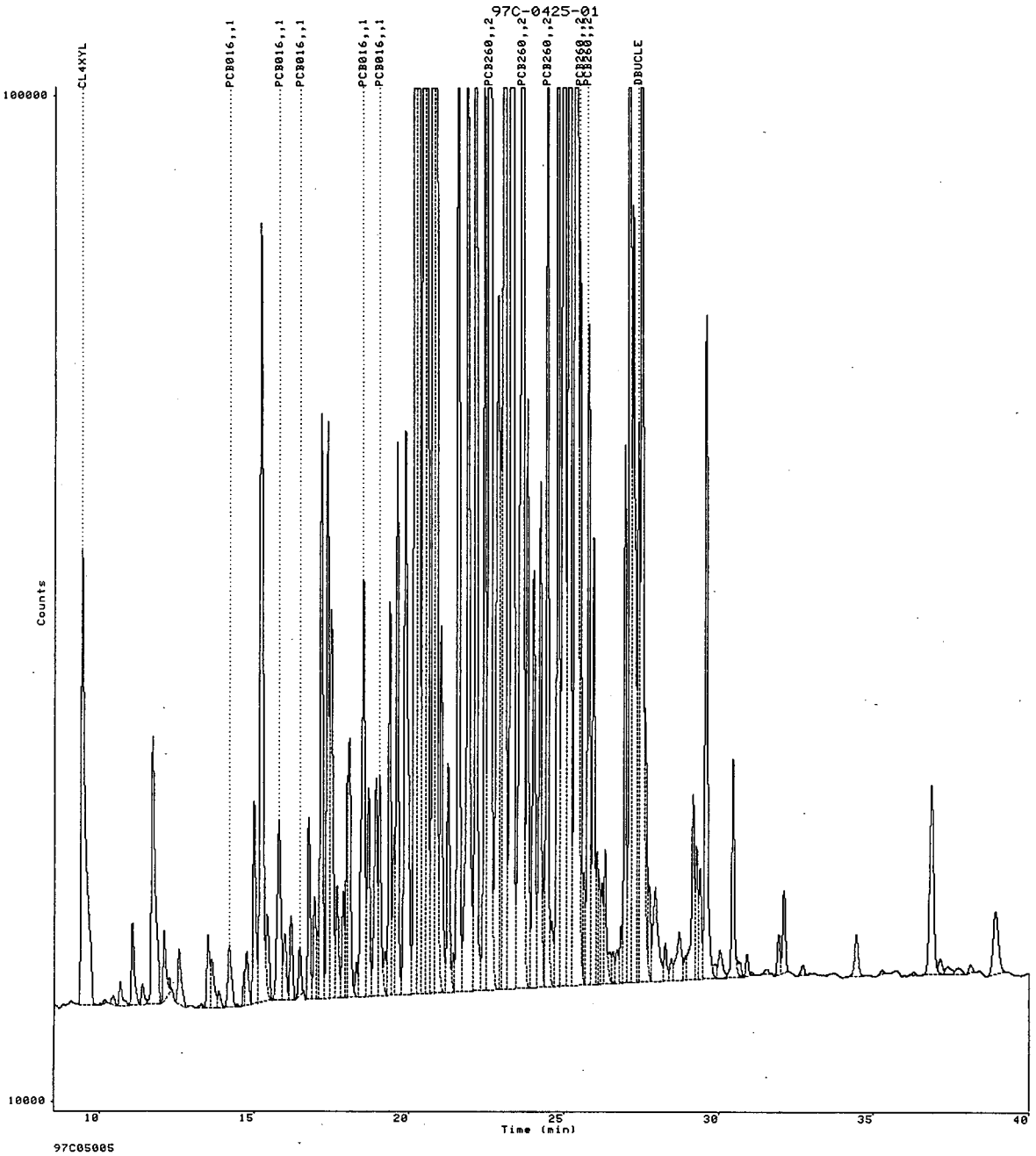
  1: WARNING: Peak windows overlap. Check peak identification. (245)
  2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)
--------------------------------------------------------------------------------
```

Data file: DISK:[TAYLORC]8397316020.RAW;1
Report: 1197249609
Acquired: 13-NOV-1997 13:05:07
Time range: 8.50-40.00



Date.....15-NOV-1997 16:16:26.78 User: TAYLORC
Report number.....1197249610
Raw file.....DISK:[TAYLORC]8397316021.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 19:59:57
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05006
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

see reprint

Anal. run time.....40.001 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.18	PCB016	1		
15.78	PCB016	1		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.406	-1.89	19.43	47933			BB	
	10.018			60			BB	
	10.386			216			BB	
	11.054			4823			BV	
	11.698			1827			VE	
	12.072			96			EB	
	12.255			157			BB	

0329

	12.565			1080	BB	
	12.900			99	BB	
	13.314			221	BB	
	13.488			127	BV	
	13.637			133	VB	
	14.753			1293	BV	
	15.012			909	VB	
	15.243			1200	BB	
	15.956			1886	BE	
	16.186			171	EB	
PCB016	16.456	0.29	0.4430 -	761	BB	1
	17.148			5279	BV	
	17.346			3429	VV	
	17.474			1912	VV	
	17.740			741	VB	
	17.959			267	BV	
	18.071			269	VB	
PCB016	18.508	-0.65	1.570	1416	BV	1
	18.680			1329	VB	
	18.882			301	BV	
PCB016	19.030	-0.59	8.824	3777	VB	1
	19.365			1527	BV	
	19.588			11167	VV	
	19.848			6245	VV	
	20.171			30072	VE	
	20.278			2912	EV	
	20.434			36152	VV	
	20.738			31090	VE	
	21.000			4114	EB	
	21.418			587	BV	
	21.563			5089	VV	
	21.873			12019	VV	
	22.125			25650	VV	
	22.405			17784	VV	
PCB260	22.566	-2.23	94.50	76721	VV	2
	22.835			9727	VV	
	23.044			69722	VV	
	23.276			36508	VV	
PCB260	23.618	-0.67	33.50	66680	VE	2
	23.797			1734	EV	
	23.985			3606	EV	
	24.204			1936	VV	
PCB260	24.431	-0.63	18.56	14285	VB	2
	24.773			23729	BV	
	24.973			22850	VV	
	25.156			27285	VV	
	25.372			72785	VE	
PCB260	25.495	-0.32	4.314	6780	EV	2
	25.622			2268	EV	
PCB260	25.780	-1.42	8.961	7006	VV	2
	25.935			5642	VV	
	26.042			2997	VV	
	26.214			3510	VV	
	26.319			978	VV	
	26.496			563	VB	
	26.743			13871	BV	
	26.946			5702	VV	
	27.104			22889	VV	
	27.204			11150	VV	
DBUCLE	27.385	-0.19	15.22	57311	VE	

27.478	8596	EV
27.667	3314	VV
27.939	1974	VB
28.256	1441	BB
28.456	684	BB
28.706	179	BB
28.926	337	BB
29.154	874	BV
29.263	1225	VV
29.384	608	VV
29.572	6162	VE
29.906	490	EV
30.191	1895	VV
30.450	1028	VV
30.545	891	VV
30.695	4502	VB
30.913	432	BV
31.075	245	VB
31.935	270	BV
32.098	546	VB
32.666	155	BV
32.905	273	VV
33.093	309	VB
33.708	411	BB
34.435	776	BB
35.971	159	BB
36.223	232	BB
36.853	27646	BB
38.507	291	BB
38.923	375	BB

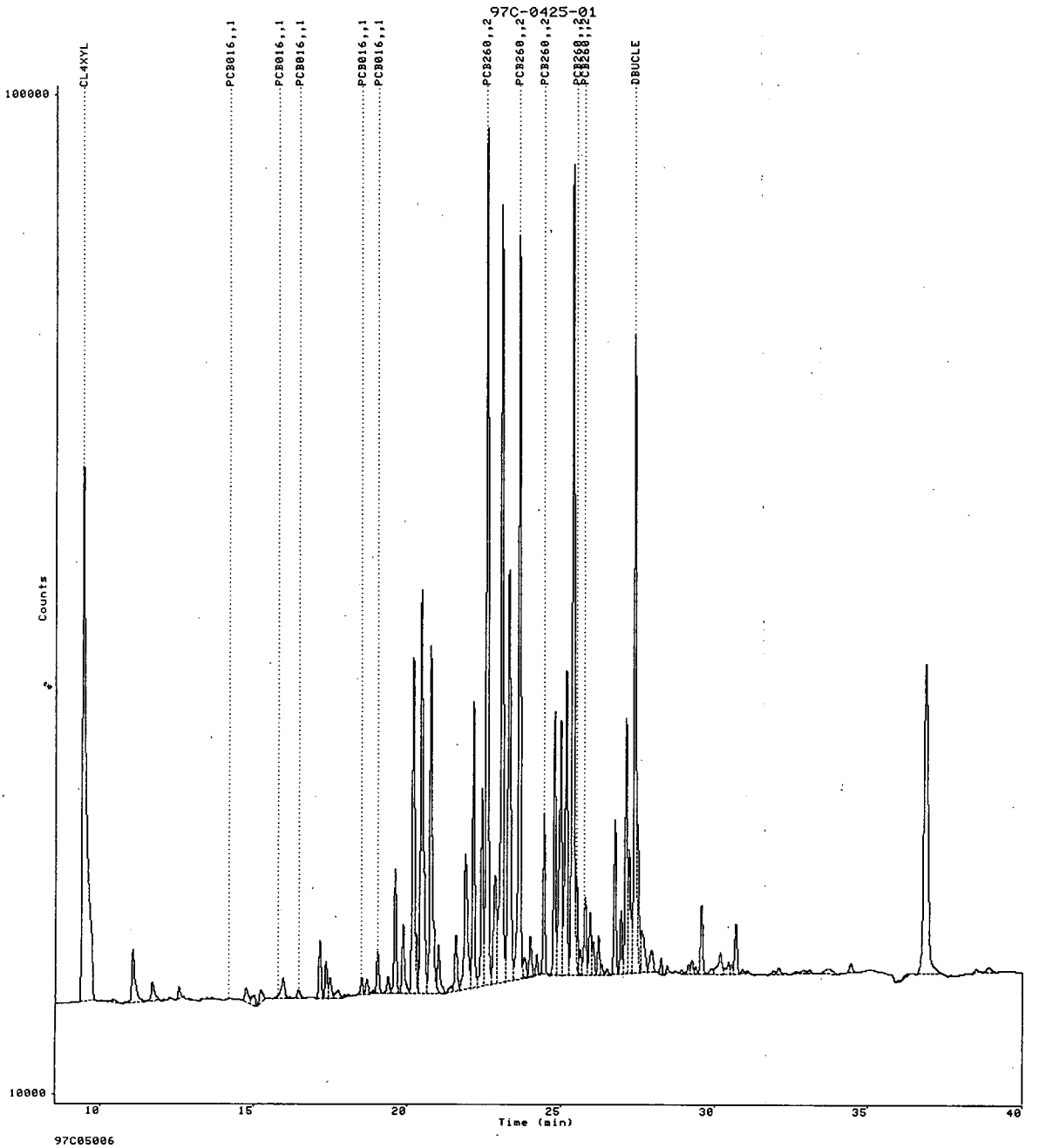
GROUP REPORT

Group	UG/SAMPLE
1	10.84
2	159.8

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316021.RAW;1
Report: 1197249610
Acquired: 13-NOV-1997 19:59:57
Time range: 8.50-40.00



Date.....18-NOV-1997 18:48:30.33 User: TAYLORC
Report number.....1197251780
Raw file.....DISK:[TAYLORC]8397316021.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....5

Acq. date.....13-NOV-1997 19:59:57
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05006
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

reprint

Anal. run time.....37.505 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....95
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref Std
14.18	PCB016	1	
15.78	PCB016	1	

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.406	-1.89	17.89	47933		BB	
	10.018			60		BB	
	10.386			216		BB	
	11.054			4823		BV	

0333

	11.698			1827	VE	
	12.072			96	EB	
	12.255			157	BB	
	12.565			1080	BB	
	12.900			99	BB	
	13.314			221	BB	
	13.488			127	BV	
	13.637			133	VB	
	14.753			1293	BV	
	15.012			909	VB	
	15.243			1200	BB	
	15.956			1886	BE	
	16.186			171	EB	
PCB016	16.456	0.29	0.6837 -	761	BB	1
	17.148			5279	BV	
	17.346			3429	VV	
	17.474			1912	VV	
	17.740			741	VB	
	17.959			267	BV	
	18.071			269	VB	
PCB016	18.508	-0.65	1.670	1416	BV	1
	18.680			1329	VB	
	18.882			301	BV	
PCB016	19.030	-0.59	8.989	3777	VB	1
	19.365			1527	BV	
PCB254	19.588	0.21	18.69	11167	VV	2
	19.848			6245	VV	
	20.171			30072	VE	
	20.278			2912	EV	
PCB254	20.434	-0.29	35.90	36152	VV	2
PCB254	20.738	0.07	67.78	31090	VE	2
	21.000			4114	EB	
	21.418			587	BV	
	21.563			5089	VV	
	21.873			12019	VV	
PCB254	22.125	-0.06	33.34	25650	VV	2
	22.405			17784	VV	
PCB260	22.566	-0.49	108.1	76721	VV	3
	22.835			9727	VV	
	23.044			69722	VV	
	23.276			36508	VV	
PCB260	23.618	-0.67	36.48	66680	VE	3
	23.797			1734	EV	
	23.985			3606	EV	
	24.204			1936	VV	
PCB260	24.431	-0.63	19.26	14285	VB	3
PCB254	24.773	-0.19	41.59	23729	BV	2
	24.973			22850	VV	
	25.156			27285	VV	
	25.372			72785	VE	
PCB260	25.495	-0.32	4.671	6780	EV	3
	25.622			2268	EV	
PCB260	25.780	-1.42	9.427	7006	VV	3
	25.935			5642	VV	
	26.042			2997	VV	
	26.214			3510	VV	
	26.319			978	VV	

0334

	26.496			563	VB
	26.743			13871	BV
	26.946			5702	VV
	27.104			22889	VV
	27.204			11150	VV
DBUCLE	27.385	-0.19	14.67	57311	VE
	27.478			8596	EV
	27.667			3314	VV
	27.939			1974	VB
	28.256			1441	BB
	28.456			684	BB
	28.706			179	BB
	28.926			337	BB
	29.154			874	BV
	29.263			1225	VV
	29.384			608	VV
	29.572			6162	VE
	29.906			490	EV
	30.191			1895	VV
	30.450			1028	VV
	30.545			891	VV
	30.695			4502	VB
	30.913			432	BV
	31.075			245	VB
	31.935			270	BV
	32.098			546	VB
	32.666			155	BV
	32.905			273	VV
	33.093			309	VB
	33.708			411	BB
	34.435			776	BB
	35.971			159	BB
	36.223			232	BB
	36.853			27646	BB

GROUP REPORT

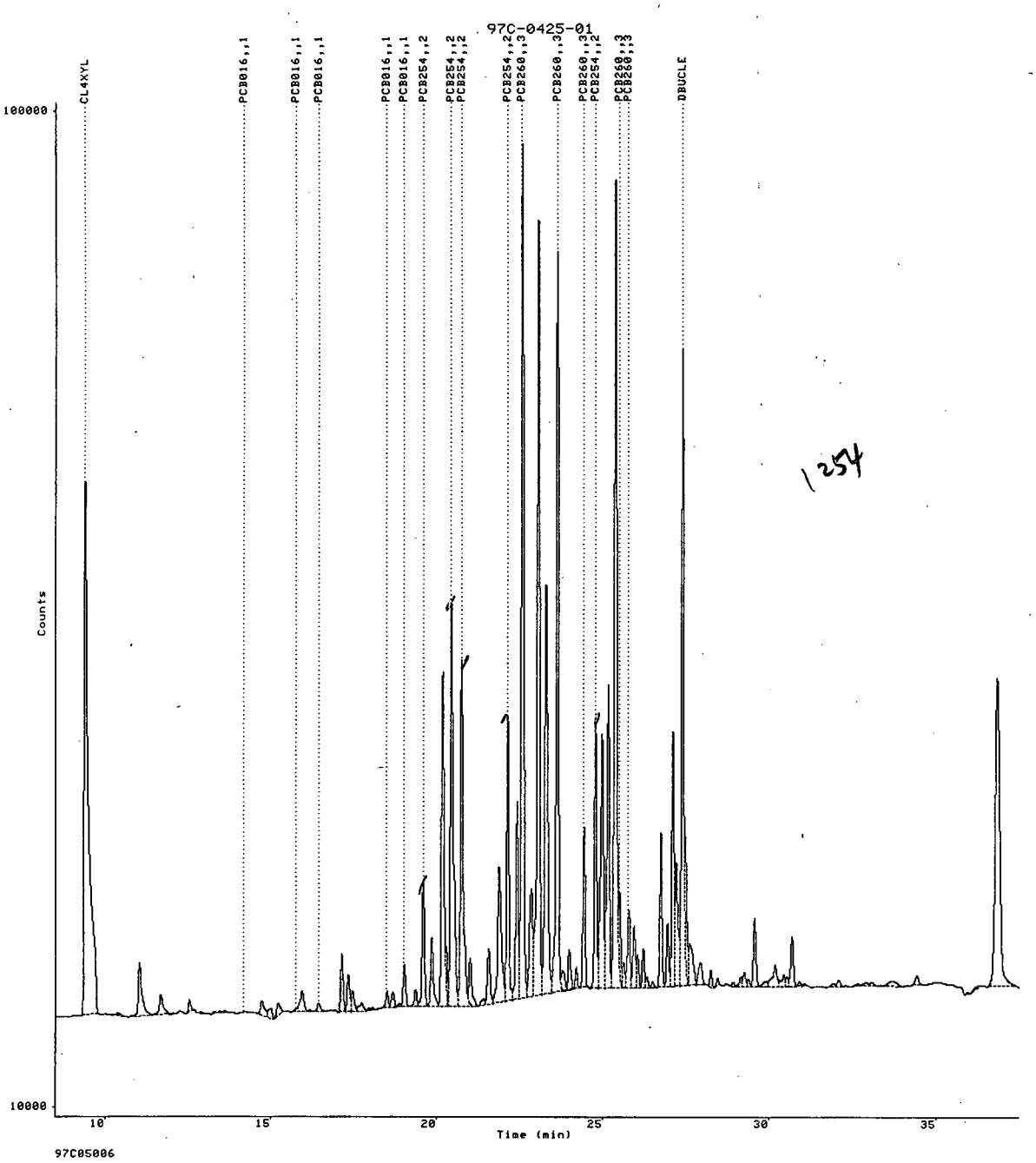
Group	UG/SAMPLE
1	11.34
2	197.3
3	178.0

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

0335

Data file: DISK:[TAYLORC]8397316021.RAW;1
Report: 1197251780
Acquired: 13-NOV-1997 19:59:57
Time range: 8.50-37.50



1254

Date.....15-NOV-1997 16:16:31.09 User: TAYLORC
Report number.....1197249611
Raw file.....DISK:[TAYLORC]8397316022.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 20:42:59
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05007
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....125
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.394	-1.12	17.05	42219		BB	
	10.011			131		BB	
	10.144			573		BB	
	10.429			714		BB	
	10.649			2456		BV	
	11.043			13989		VE	
	11.369			1255		EV	
	11.688			157092		VE	
	12.068			6341		EV	
	12.236			3434		EV	
	12.322			2387		EV	
	12.555			8751		VE	
	12.874			574		EB	
	13.495			6055		BV	
	13.681			2475		VV	

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	13.846				1466	VB	
PCB016	14.186	-0.21	10.45		7878	BE	1
	14.453				186	EB	
	14.748				8666	BV	
	14.975				28717	VV	
	15.248				19819	VV	
	15.409				9340	VB	
PCB016	15.781	-0.24	17.43		21253	BV	1
	15.962				9078	VV	
	16.178				8418	VB	
PCB016	16.455	0.35	10.42		6592	BB	1
	16.741				7789	BV	
	16.940				3726	VV	
	17.038				8751	VV	
	17.139				75630	VV	
	17.342				60556	VV	
	17.457				42826	VV	
	17.657				16314	VV	
	17.848				12635	VV	
	18.054				52567	VE	
	18.283				7422	EV	
PCB016	18.502	-0.27	92.89		48167	VV	1
	18.668				24302	VV	
	18.887				27560	VV	
PCB016	19.026	-0.37	83.19		31078	VV	1
	19.348				56185	VV	
	19.484				18702	VV	
	19.587				78363	VV	
	19.887				90220	VV	
	20.170				884363	VV	
	20.283				460785	VV	
	20.435				321491	VV	
	20.566				194445	VV	
	20.739				255559	VV	
	20.841				551209	VE	
	21.003				52544	EV	
	21.250				28577	VE	
	21.413				5710	EV	
	21.556				126144	VV	
	21.863				155264	VV	
	22.126				247645	VV	
	22.406				151288	VV	
PCB260	22.567	-2.26			774380	VE	2
	22.850				105142	EV	
	22.939				84001	VV	
	23.048				418784	VV	
	23.276				346087	VV	
PCB260	23.620	-0.81			595529	VV	2
	23.784				166043	VV	
	23.986				60883	VV	
	24.205				62483	VV	
	24.321				22217	VV	
PCB260	24.431	-0.69	302.5	+	189732	VE	2
	24.564				9557	EV	
	24.778				173828	VV	
	24.971				257276	VV	
	25.155				298830	VV	
	25.374				683009	VE	
PCB260	25.497	-0.42	61.12		83649	EV	2
	25.623				16966	EV	

PCB260	25.777	-1.25	145.2	+	98945	VV	2
	25.935				67636	VV	
	26.054				28149	VV	
	26.217				20550	VV	
	26.319				18450	VE	
	26.454				2802	EV	
	26.570				3408	EV	
	26.709				3891	VV	
	26.830				7552	VV	
	26.948				80173	VV	
	27.105				231161	VV	
	27.207				101104	VV	
	27.278				65706	VV	
DBUCLE	27.384	-0.13	13.92		52443	VV	
	27.485				200900	VE	
	27.619				25910	EV	
	27.741				13551	EV	
	27.925				17555	VV	
	28.264				6861	VB	
	28.458				2544	BB	
	28.717				3682	BV	
	28.939				1560	VV	
	29.157				20264	VV	
	29.267				19580	VV	
	29.394				13852	VV	
	29.576				102620	VE	
	29.900				1650	EV	
	30.036				3593	EB	
	30.449				10485	BV	
	30.546				2795	VB	
	30.918				3210	BV	
	31.075				923	VE	
	31.233				161	EB	
	31.568				924	BB	
	31.936				5950	BV	
	32.102				12196	VB	
	32.673				1059	BE	
	32.925				253	EV	
	33.068				352	VB	
	33.835				441	BB	
	34.436				4962	BB	
	34.795				106	BB	
	35.693				211	BB	
	36.285				1270	BB	
	36.854				20965	BE	
	37.128				295	EB	
	37.364				309	BB	
	38.127				802	BE	
	38.363				83	EB	
	38.922				5738	BB	

GROUP REPORT

Group	UG/SAMPLE
1	214.4
2	508.9

ANALYSIS NOTES

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--------------------------------------------------------------------------------
  1: WARNING: Peak windows overlap. Check peak identification. (245)
  2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)
--------------------------------------------------------------------------------
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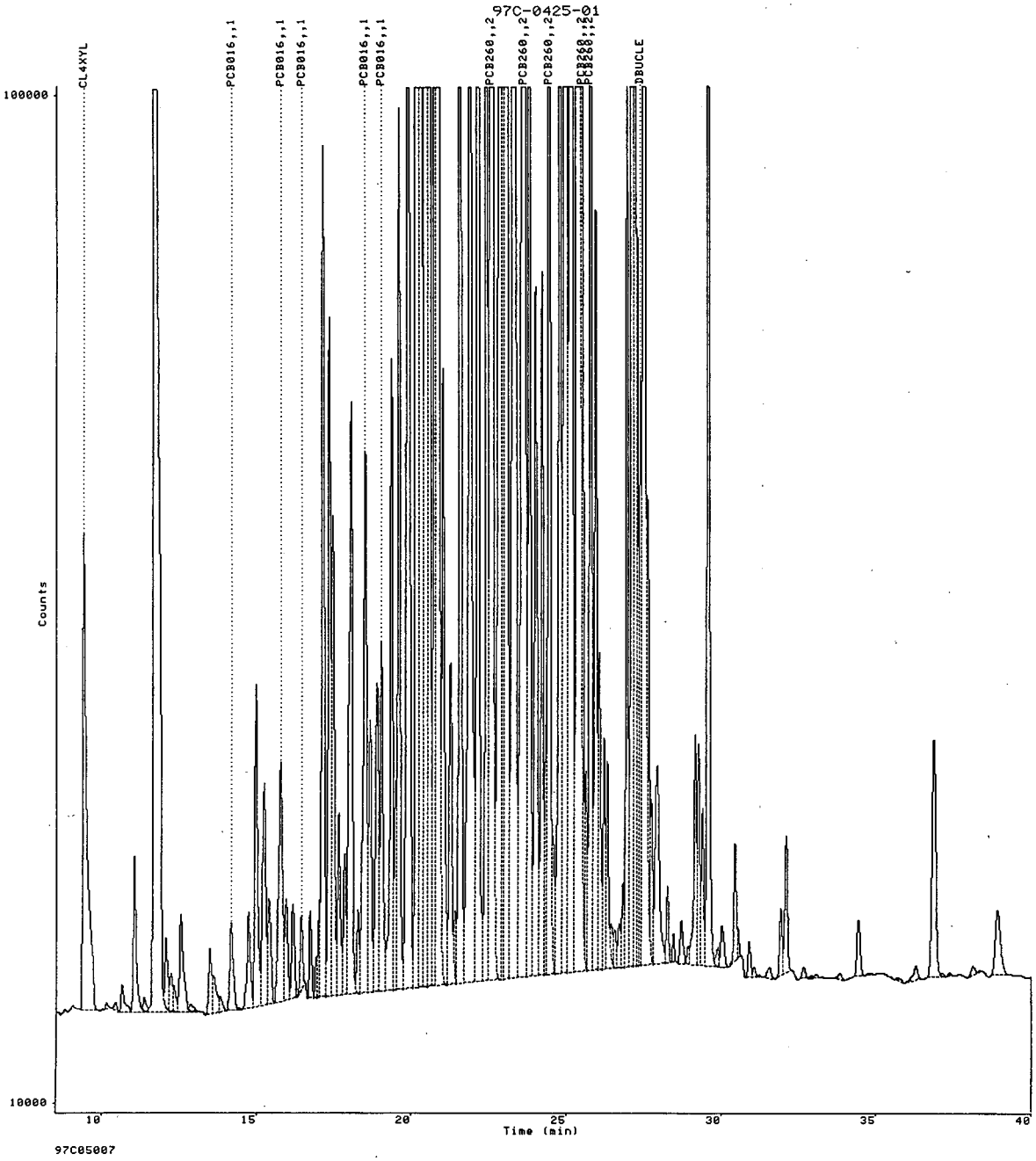
Data file: DISK:[TAYLORC]8397316022.RAW;1
Report: 1197249611
Acquired: 13-NOV-1997 20:42:59
Time range: 8.50-40.00



Date.....15-NOV-1997 16:16:41.38 User: TAYLORC
Report number.....1197249613
Raw file.....DISK:[TAYLORC]8397316024.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 22:11:53
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05008
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....127
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

==========
EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.394	-1.17	16.68	41329			BB	
	9.837			42			BB	
	10.015			504			BV	
	10.142			1957			VV	
	10.281			1261			VV	
	10.371			1198			VV	
	10.640			783			VB	
	10.834			156			BB	
	11.045			8514			BV	
	11.398			38860			VV	
	11.687			19970			VV	
	12.070			19526			VE	
	12.554			3645			EV	
	12.891			1525			EV	
	13.093			686			VB	

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	13.497			10010	BV	
	13.629			6649	VV	
	13.844			1697	VV	
PCB016	14.184	-0.06	1.756	1865	VV	1
	14.303			5718	VV	
	14.506			5673	VV	
	14.751			1626	VV	
	14.984			1374	VV	
	15.247			3747	VV	
	15.440			32222	VV	
PCB016	15.777	0.00	3.097	4779	VV	1
	15.953			3168	VV	
	16.195			497	VB	
PCB016	16.456	0.28	1.862	1600	BB	1
	16.743			874	BV	
	17.031			1249	VV	
	17.139			17832	VV	
	17.339			14759	VV	
	17.458			9201	VV	
	17.655			3229	VE	
	17.852			498	EV	
	18.060			5203	VV	
	18.306			1704	VV	
PCB016	18.500	-0.15	18.54	11369	VV	1
	18.672			4917	VV	
	18.867			22281	VV	
PCB016	19.023	-0.16	24.52	9844	VE	1
	19.225			1397	EV	
	19.358			5163	VV	
	19.478			8606	VV	
	19.582			20954	VV	
	19.865			14620	VV	
	20.167			73105	VV	
	20.282			94695	VV	
	20.431			72000	VV	
	20.560			31839	VV	
	20.737			54626	VV	
	20.838			37141	VV	
	21.000			12775	VV	
	21.247			15794	VV	
	21.425			4898	VV	
	21.555			18628	VV	
	21.915			68806	VV	
	22.122			48868	VE	
	22.291			2610	EV	
	22.402			32252	VV	
PCB260	22.564	-2.11		153735	VV	2
	22.825			25007	VV	
	23.040			133633	VV	
	23.271			74989	VV	
PCB260	23.614	-0.44	77.84	142056	VE	2
	23.779			30101	EV	
	23.995			12357	EV	
	24.206			22508	VV	
PCB260	24.427	-0.41	47.78	35699	VE	2
	24.588			5602	EV	
	24.769			60685	VV	
	24.971			51557	VV	
	25.150			73371	VV	
	25.378			206248	VE	

PCB260	25.493	-0.16	17.88	26244	EV	2
	25.619			8405	EV	
PCB260	25.769	-0.77	33.10	25077	VV	2
	25.929			17603	VV	
	26.053			14983	VV	
	26.211			18974	VV	
	26.304			8264	VV	
	26.466			2598	VV	
	26.568			2647	VV	
	26.699			2932	VV	
	26.826			4589	VV	
	26.944			21783	VV	
	27.101			53960	VV	
	27.205			35536	VV	
DBUCLE	27.379	0.20	15.71	59138	VV	
	27.478			52193	VE	
	27.600			6690	EV	
	27.731			7212	EV	
	27.933			11741	VV	
	28.253			7913	VV	
	28.464			4635	VV	
	28.699			3104	VV	
	28.936			2852	VV	
	29.150			9666	VV	
	29.261			5951	VV	
	29.388			6026	VV	
	29.569			25370	VE	
	29.889			1378	EV	
	30.059			1410	EV	
	30.342			1928	VV	
	30.445			2675	VV	
	30.554			3021	VB	
	30.906			1619	BV	
	31.091			1369	VB	
	31.490			81	BB	
	31.797			255	BV	
	31.930			1897	VV	
	32.098			4068	VB	
	32.686			793	BV	
	32.940			852	VV	
	33.094			1187	VE	
	33.547			275	EB	
	33.894			162	BB	
	34.431			2688	BB	
	35.259			226	BB	
	35.974			80	BB	
	36.303			424	BB	
	36.851			23203	BB	
	37.696			97	BB	
	38.121			2239	BV	
	38.360			1045	VB	
	38.913			13582	BB	

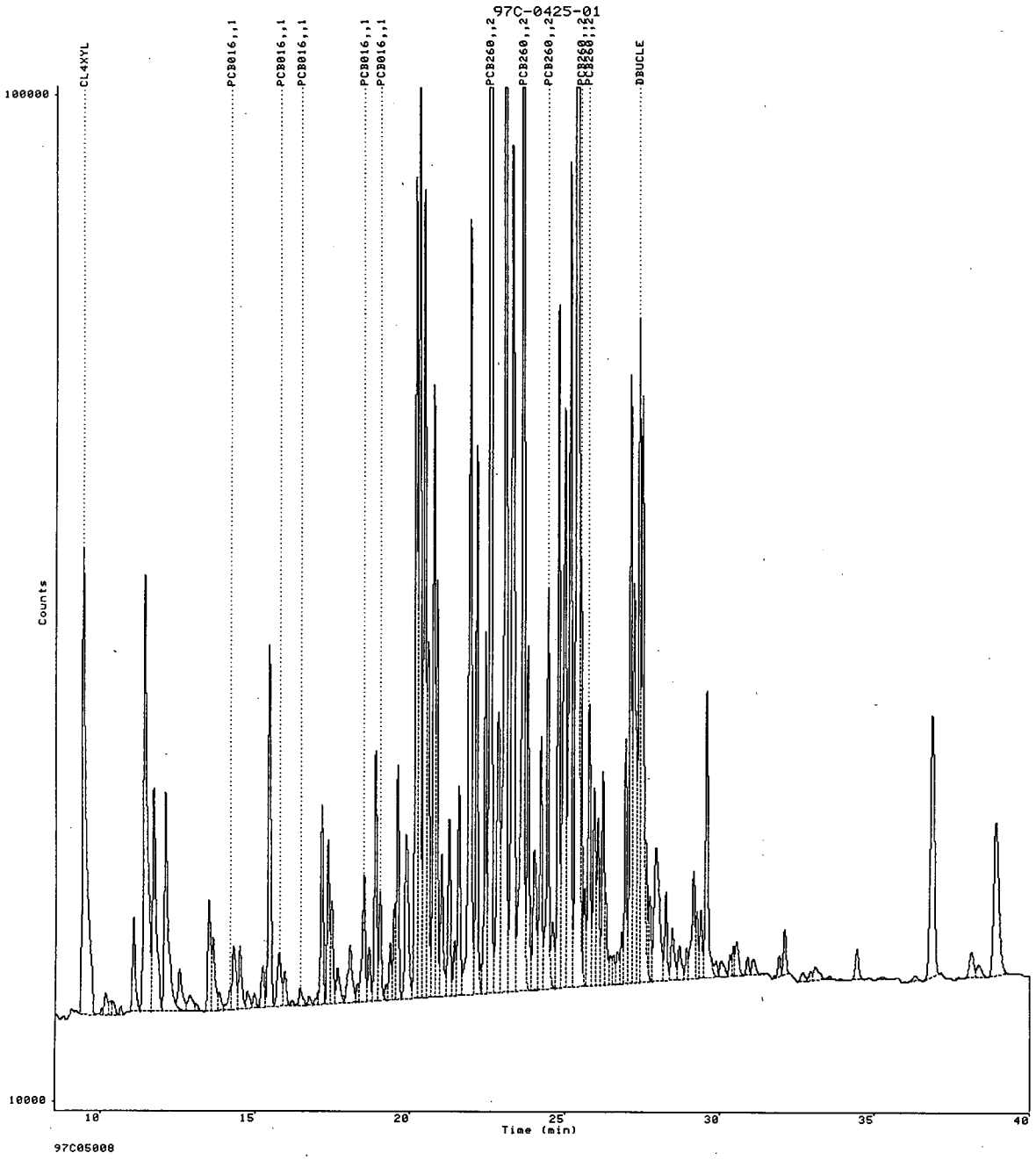
GROUP REPORT

Group	UG/SAMPLE
1	49.78
2	176.6

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316024.RAW;1
Report: 1197249613
Acquired: 13-NOV-1997 22:11:53
Time range: 8.50-40.00



0347

Date.....15-NOV-1997 16:16:46.56 User: TAYLORC
Report number.....1197249614
Raw file.....DISK:[TAYLORC]8397316025.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 22:55:50
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05009
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....109
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.18	PCB016	1		
15.78	PCB016	1		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.403	-1.70	13.90	34613			BB	
	10.012			95			BV	
	10.154			870			VV	
	10.374			696			VB	
	11.045			5851			BE	
	11.374			862			EV	
	11.691			1531			VV	

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	12.082				1132	VV	
	12.252				2827	VV	
	12.563				12644	VE	
	12.857				724	EB	
	13.305				49	BB	
	13.478				532	BB	
	13.658				384	BB	
	14.365				840	BV	
	14.592				155	VV	
	14.754				12902	VE	
	15.001				805	EB	
	15.235				11525	BV	
	15.956				18760	VV	
PCB016	16.453	0.50	9.564		6099	VB	1
	16.747				139	BB	
	16.951				397	BB	
	17.144				27668	BV	
	17.343				17182	VV	
	17.480				15420	VE	
	17.656				1175	EV	
	17.968				2028	VV	
	18.148				1552	VB	
PCB016	18.504	-0.42	14.19		8873	BV	1
	18.682				17270	VV	
PCB016	19.027	-0.41	106.0		38730	VE	1
	19.211				998	EV	
	19.365				13629	VV	
	19.586				95230	VV	
	19.845				40623	VV	
	20.169				198456	VV	
	20.434				297990	VV	
	20.739				239250	VV	
	21.002				32518	VV	
	21.245				8550	VV	
	21.428				3803	VV	
	21.565				28263	VV	
	21.865				85517	VV	
	21.984				30396	VV	
	22.124				224261	VE	
	22.275				224	EV	
	22.403				191504	VV	
PCB260	22.565	-2.19			706214	VV	2
	22.822				98520	VV	
	23.044				681068	VV	
	23.275				299332	VV	
PCB260	23.616	-0.55			603507	VE	2
	23.838				20802	EV	
	23.983				42196	EV	
	24.202				19365	VV	
PCB260	24.428	-0.47	273.0	+	174865	VE	2
	24.559				8350	EV	
	24.769				293316	VV	
	24.967				221547	VV	
	25.151				257812	VV	
	25.369				700589	VE	
PCB260	25.497	-0.43	42.69		60043	EV	2
	25.621				19458	EV	
PCB260	25.775	-1.13	124.8		86714	VV	2
	25.932				70262	VV	
	26.046				35487	VV	

	26.214			42885	VV
	26.322			13748	VV
	26.536			3825	VV
	26.695			4885	VV
	26.832			6216	VV
	26.945			59648	VV
	27.101			250813	VV
	27.203			156782	VV
DBUCLE	27.381	0.07	14.38	54148	VV
	27.482			145836	VV
	27.615			47220	VV
	27.738			15768	VV
	27.922			30650	VV
	28.260			13624	VV
	28.459			7378	VV
	28.703			3975	VV
	28.937			5032	VV
	29.153			9331	VV
	29.263			16281	VV
	29.389			6591	VV
	29.570			79894	VE
	29.898			4584	EV
	30.039			4367	EV
	30.345			2361	VV
	30.543			6830	VB
	30.909			1249	BV
	31.076			2046	VE
	31.242			105	EB
	31.579			162	BB
	31.934			2707	BV
	32.099			5695	VB
	32.663			1553	BB
	33.076			763	BB
	33.587			255	BB
	34.434			2803	BB
	35.757			468	BB
	35.981			50	BB
	36.849			21868	BE
	37.597			1185	EB
	38.124			1603	BV
	38.391			752	VB
	38.918			10810	BB

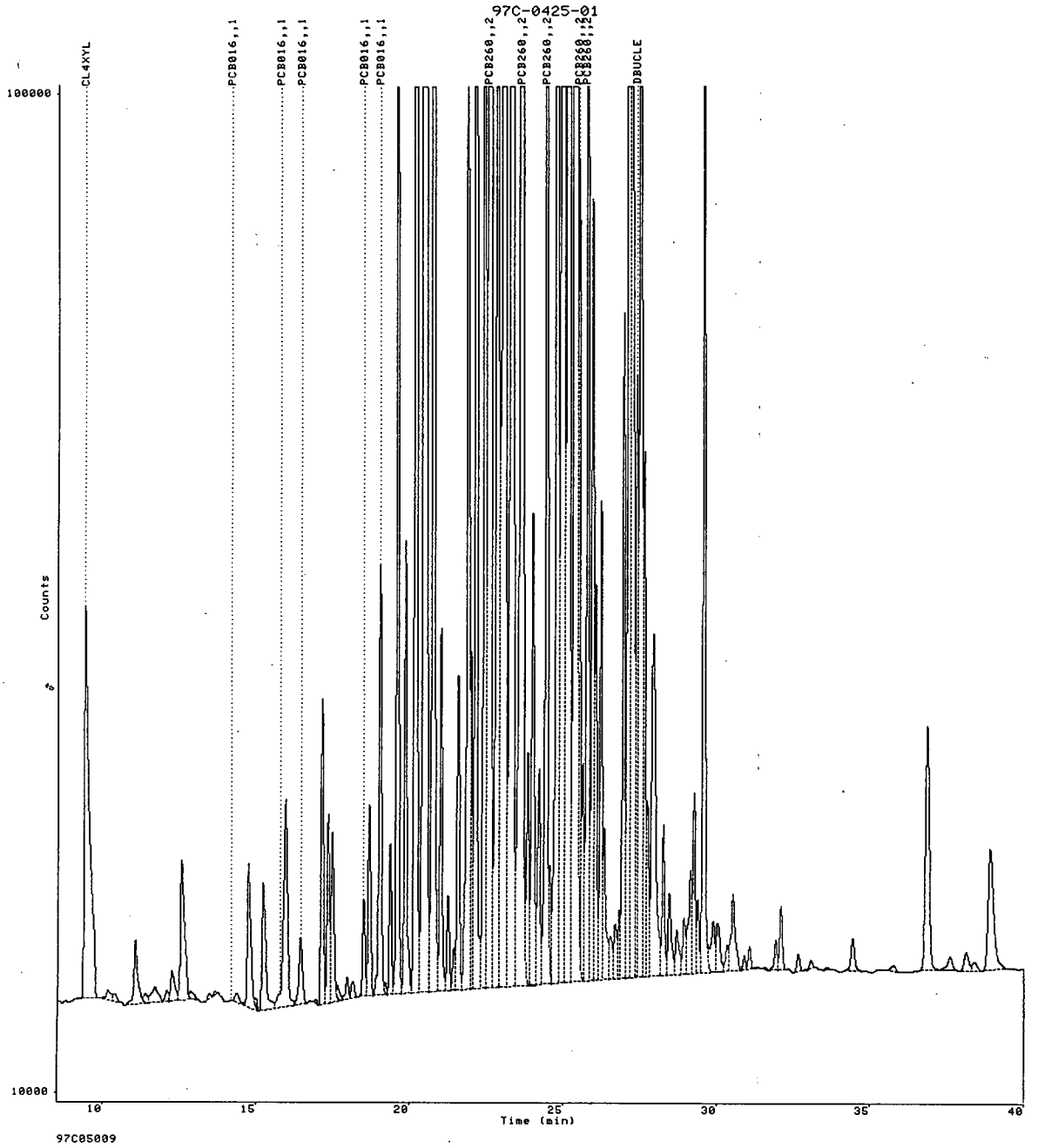
GROUP REPORT

Group	UG/SAMPLE
1	129.8
2	440.4

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316025.RAW;1
Report: 1197249614
Acquired: 13-NOV-1997 22:55:50
Time range: 8.50-40.00



Date.....15-NOV-1997 16:16:51.75 User: TAYLORC
Report number.....1197249615
Raw file.....DISK:[TAYLORC]8397316026.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....13-NOV-1997 23:39:23
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05010
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....117
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.18	PCB016	1		
15.78	PCB016	1		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
	9.239			60			BV	
CL4XYL	9.393	-1.06	17.93	44330			VB	
	10.019			105			BB	
	10.140			675			BB	
	10.372			321			BB	
	10.593			269			BB	
	11.041			5089			BV	

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	11.394				1951	VV	
	11.685				2359	VV	
	12.066				1220	VV	
	12.242				9206	VV	
	12.552				35904	VE	
	12.838				2301	EB	
	13.457				1578	BV	
	13.648				1854	VV	
	13.756				1631	VB	
	14.341				930	BB	
	14.746				29725	BE	
	15.000				716	EB	
	15.224				29517	BE	
	15.430				971	EV	
	15.949				60021	VV	
PCB016	16.446	0.87	33.97		19737	VE	1
	16.736				1080	EV	
	16.948				748	EV	
	17.136				110071	VV	
	17.335				60793	VV	
	17.471				36161	VE	
	17.644				1859	EV	
	17.858				3101	VV	
	17.961				7262	VV	
	18.145				1923	VV	
	18.313				1084	VV	
PCB016	18.497	-0.02	62.05		34245	VV	1
	18.675				40798	VV	
PCB016	19.021	-0.06	258.9	+	81090	VE	1
	19.206				607	EV	
	19.359				29213	VV	
	19.581				223414	VV	
	19.840				99611	VE	
	19.955				8298	EV	
	20.165				444859	VV	
	20.429				794685	VV	
	20.733				559171	VE	
	20.995				70516	EV	
	21.238				7731	VV	
	21.427				6916	VV	
	21.558				89455	VV	
	21.861				274272	VV	
	22.121				606494	VE	
	22.269				547	EV	
	22.400				405410	VV	
PCB260	22.561	-1.92			974311	VV	2
	22.818				189993	VV	
	23.041				982095	VV	
	23.272				577714	VV	
PCB260	23.614	-0.43			980959	VE	2
	23.836				46895	EV	
	23.980				82705	EV	
	24.203				48733	VV	
PCB260	24.425	-0.32			345440	VE	2
	24.571				11852	EV	
	24.767				642337	VV	
	24.965				432274	VV	
	25.150				528173	VV	
	25.366				980977	VE	
PCB260	25.492	-0.14	97.66		126655	EV	2

	25.616				37886	EV	
PCB260	25.775	-1.11	319.7	+	181044	VV	2
	25.928				149774	VV	
	26.043				71549	VV	
	26.210				58285	VV	
	26.317				28525	VV	
	26.556				8593	VV	
	26.703				9985	VV	
	26.824				12316	VV	
	26.942				126708	VV	
	27.099				521012	VV	
	27.199				346914	VE	
DBUCLE	27.375	0.41	16.46		61917	EV	
	27.478				307788	VV	
	27.611				100566	VV	
	27.735				33071	VV	
	27.922				54903	VV	
	28.257				36939	VV	
	28.455				18398	VV	
	28.550				8645	VV	
	28.696				9319	VV	
	28.931				12946	VV	
	29.151				23471	VV	
	29.260				39576	VV	
	29.387				17693	VV	
	29.568				172227	VE	
	29.897				13507	EV	
	30.051				12278	EV	
	30.347				6699	VV	
	30.547				19818	VE	
	30.906				3845	EV	
	31.073				7571	VE	
	31.226				1021	EV	
	31.560				1712	VV	
	31.929				8095	VV	
	32.096				15563	VE	
	32.332				767	EB	
	32.663				5602	BB	
	33.055				1911	BB	
	33.419				987	BB	
	33.735				49	BB	
	33.860				172	BB	
	34.432				6780	BB	
	35.261				73	BB	
	35.767				529	BB	
	36.849				26505	BB	
	37.598				1969	BB	
	38.117				989	BV	
	38.413				637	VB	
	38.917				6692	BB	

GROUP REPORT

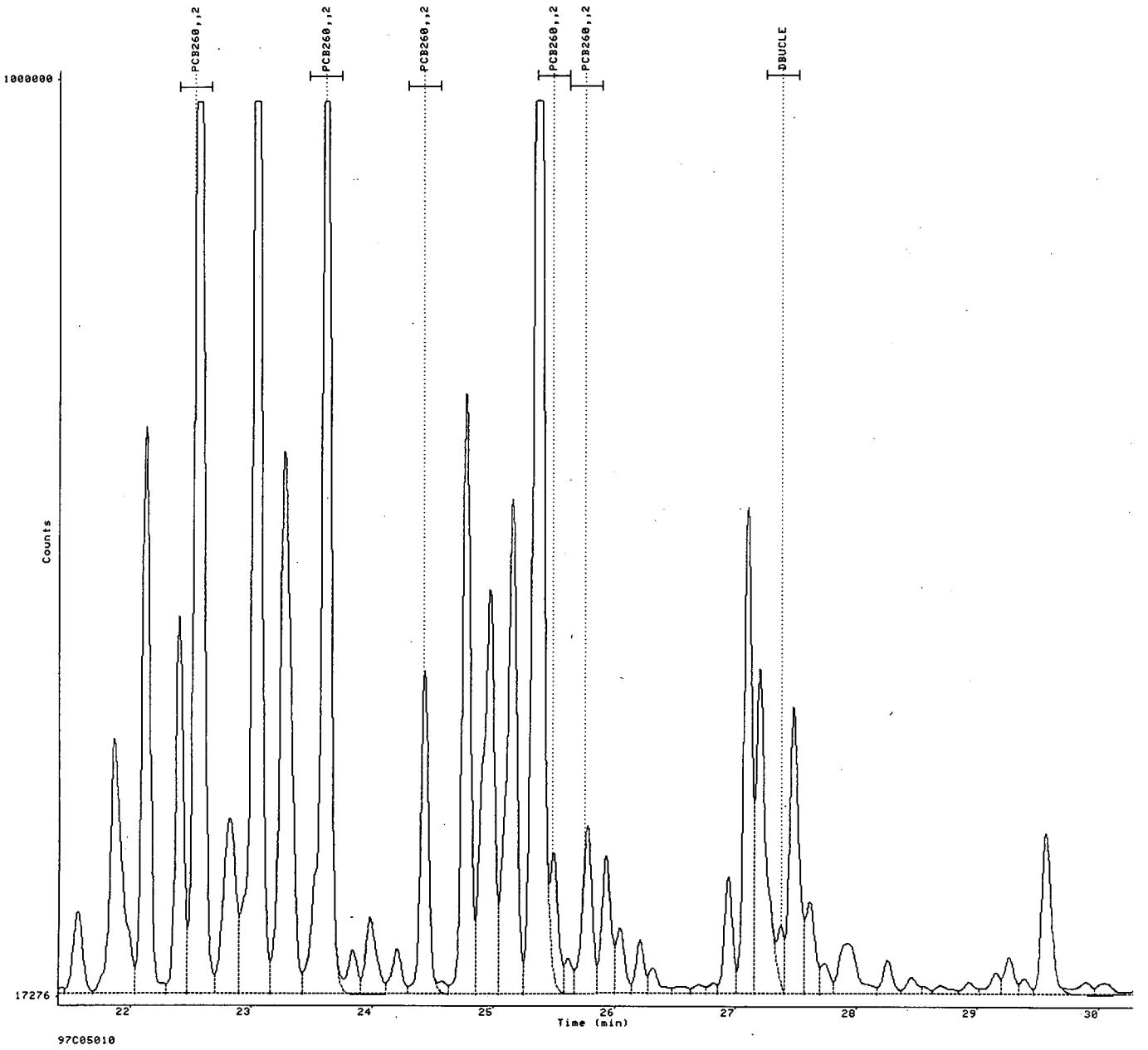
Group	UG/SAMPLE
1	354.9
2	417.4

0354

ANALYSIS NOTES

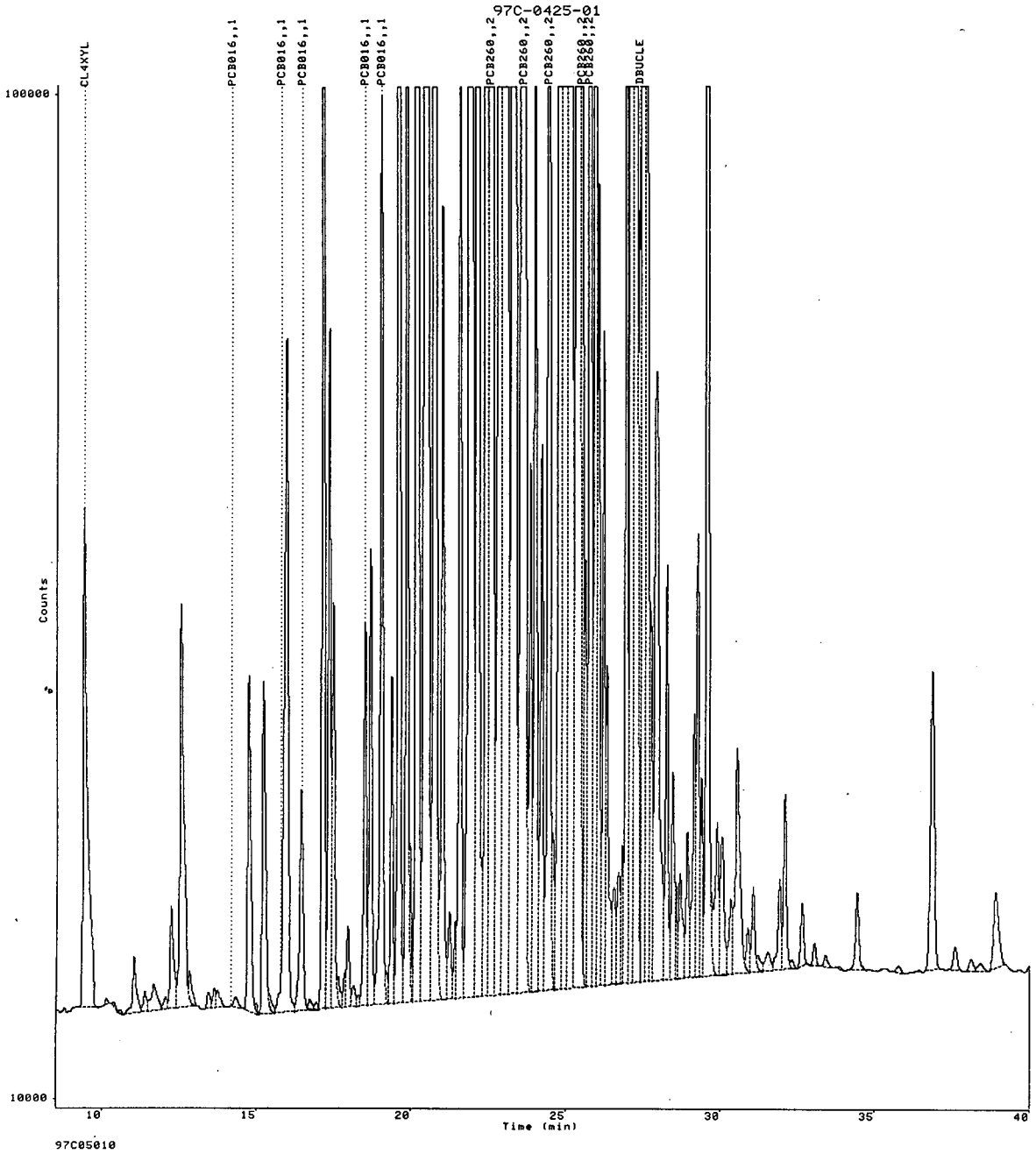
```
---------------------------------------------------------------------------
  1: WARNING: Peak windows overlap. Check peak identification. (245)
  2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)
---------------------------------------------------------------------------
```

Data file: DISK:[TAYLORC]8397316026.RAW;1
Report: 1197249615
Acquired: 13-NOV-1997 23:39:23
Time range: 21.40-30.29



0356

Data file: DISK:[TAYLORC]8397316026.RAW;1
Report: 1197249615
Acquired: 13-NOV-1997 23:39:23
Time range: 8.50-40.00



Date.....15-NOV-1997 16:16:56.55 User: TAYLORC
Report number.....1197249616
Raw file.....DISK:[TAYLORC]8397316027.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 00:22:59
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05011
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....126
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.393	-1.07	19.31	47650		BB	
	10.013			384		BV	
	10.141			658		VB	
	10.428			1099		BB	
	10.647			3777		BB	
	11.041			9121		BB	
	11.373			2612		BB	
	11.690			44613		BB	
	12.068			8446		BV	
	12.233			3613		VV	
	12.327			2810		VV	
	12.554			9370		VE	
	12.867			579		EV	
	13.154			217		VB	
	13.496			12207		BV	

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	13.626				7173	VV	
	13.849				3175	VV	
PCB016	14.185	-0.13	16.55		11982	VB	1
	14.660				5814	BV	
	14.742				8190	VV	
	14.976				22060	VV	
	15.251				23363	VV	
	15.409				13732	VB	
PCB016	15.781	-0.22	25.88		30655	BV	1
	15.961				9619	VV	
	16.177				10007	VB	
PCB016	16.455	0.37	11.71		7336	BB	1
	16.739				23471	BV	
	16.929				13296	VV	
	17.031				10748	VV	
	17.139				97341	VV	
	17.341				99902	VV	
	17.452				54795	VV	
	17.657				18501	VV	
	17.861				14384	VV	
	17.982				28963	VV	
	18.053				39090	VE	
	18.285				5133	EV	
PCB016	18.502	-0.31	145.5	+	67532	VV	1
	18.668				30820	VV	
	18.889				48599	VV	
PCB016	19.025	-0.30	95.05		35096	VE	1
	19.219				6689	EV	
	19.352				49381	VV	
	19.483				28212	VV	
	19.589				83372	VV	
	19.856				82446	VV	
	20.171				667718	VV	
	20.285				285639	VV	
	20.439				396862	VV	
	20.533				166773	VV	
	20.742				277028	VV	
	20.844				331256	VE	
	21.005				57712	EV	
	21.240				33423	VE	
	21.414				6441	EV	
	21.556				153003	VV	
	21.866				163771	VV	
	22.127				295059	VV	
	22.408				159830	VV	
PCB260	22.568	-2.34			783378	VV	2
	22.837				113966	VV	
	23.047				537269	VV	
	23.277				330217	VV	
PCB260	23.622	-0.92			594153	VE	2
	23.785				101634	EV	
	23.987				60885	EV	
	24.207				95348	VE	
	24.324				15361	EV	
PCB260	24.433	-0.80	288.8	+	182946	VE	2
	24.582				10955	EV	
	24.776				251825	VV	
	24.973				247665	VV	
	25.157				295747	VV	
	25.375				686704	VE	

PCB260	25.499	-0.54	59.65		81810	EV	2
	25.625				19359	EV	
PCB260	25.777	-1.28	145.7	+	99216	VV	2
	25.933				72983	VV	
	26.054				25629	VV	
	26.126				20477	VV	
	26.209				22973	VV	
	26.316				21992	VE	
	26.444				3757	EV	
	26.583				7207	VV	
	26.699				6474	VV	
	26.829				9016	VV	
	26.949				79212	VV	
	27.106				226115	VV	
	27.207				140274	VV	
DBUCLE	27.376	0.37	20.54		77076	VV	
	27.486				192693	VE	
	27.621				26822	EV	
	27.741				15669	EV	
	27.938				18900	VV	
	28.264				8713	VV	
	28.459				4169	VV	
	28.719				5191	VV	
	28.945				3333	VV	
	29.158				21319	VV	
	29.266				20058	VV	
	29.396				14238	VV	
	29.575				99942	VE	
	29.902				3091	EV	
	30.044				4969	EV	
	30.451				28759	VE	
	30.674				1982	EB	
	30.917				2792	BV	
	31.073				880	VB	
	31.557				688	BB	
	31.937				5933	BV	
	32.102				12465	VB	
	32.678				716	BB	
	32.928				98	BV	
	33.098				430	VV	
	33.384				410	VB	
	34.438				4898	BB	
	35.275				460	BB	
	35.708				344	BB	
	36.288				907	BB	
	36.858				19656	BE	
	37.143				1299	EV	
	37.379				206	EB	
	38.122				1427	BV	
	38.386				592	VB	
	38.920				7563	BB	

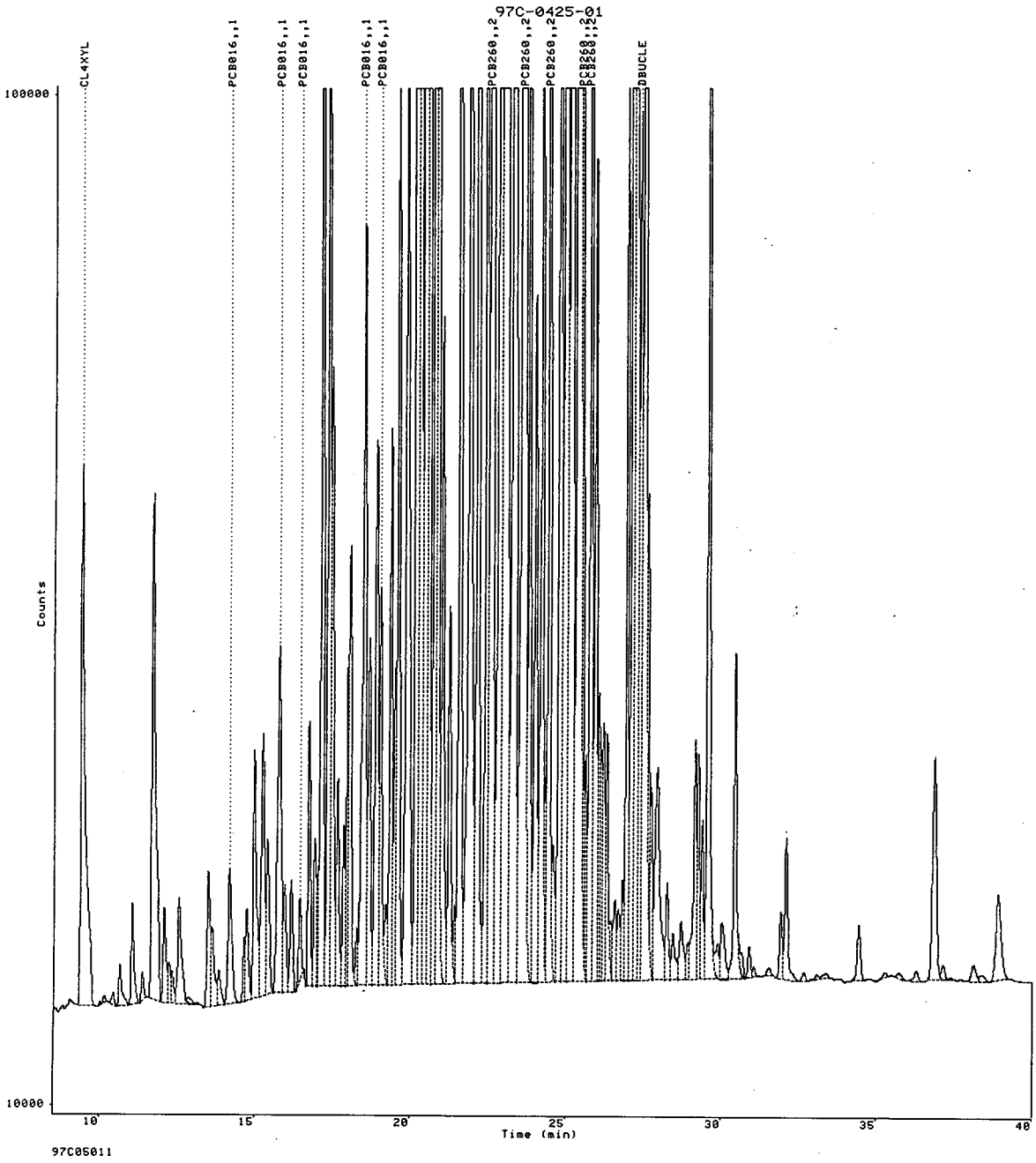
GROUP REPORT

Group	UG/SAMPLE
1	294.7
2	494.2

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316027.RAW;1
Report: 1197249616
Acquired: 14-NOV-1997 00:22:59
Time range: 8.50-40.00



Date.....15-NOV-1997 16:17:02.26 User: TAYLORC
Report number.....1197249617
Raw file.....DISK:[TAYLORC]8397316028.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 01:07:00
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05012
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
      length.....30 M
      diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....124
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	9.236			90		BB	
CL4XYL	9.399	-1.43	13.94	34727		BE	
	9.907			352		EV	
	10.016			762		EV	
	10.147			1690		EV	
	10.406			1302		VB	
	10.647			1439		BB	
	11.044			6507		BB	
	11.379			1717		BV	
	11.695			22655		VB	
	12.075			10356		BV	
	12.238			4719		VV	
	12.559			6200		VB	
	12.980			1004		BB	
	13.293			176		BB	

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	13.499				10318	BV	
	13.635				6484	VV	
	13.848				2258	VB	
PCB016	14.192	-0.51	9.570		7282	BV	1
	14.663				2982	VV	
	14.752				4758	VV	
	14.982				10687	VV	
	15.253				15663	VV	
	15.414				8364	VB	
PCB016	15.787	-0.62	16.89		20644	BV	1
	15.966				5929	VV	
	16.183				4610	VB	
PCB016	16.462	-0.07	6.725		4452	BB	1
	16.746				13188	BV	
	16.935				7466	VV	
	17.034				6647	VV	
	17.146				60009	VV	
	17.346				54922	VV	
	17.464				32324	VV	
	17.661				10389	VV	
	17.867				6370	VV	
	18.059				20644	VE	
	18.287				2791	EV	
PCB016	18.506	-0.56	85.23		44887	VV	1
	18.673				19658	VV	
	18.905				24653	VV	
PCB016	19.031	-0.69	62.15		23726	VE	1
	19.225				4278	EV	
	19.361				28496	VV	
	19.485				18522	VV	
	19.594				56346	VV	
	19.860				55494	VV	
	20.178				452826	VV	
	20.290				172425	VV	
	20.449				258184	VV	
	20.756				181692	VV	
	20.854				198648	VE	
	21.018				38851	EV	
	21.274				39695	VV	
	21.436				10204	VV	
	21.560				104671	VV	
	21.873				109618	VV	
	22.133				202711	VV	
	22.414				109266	VV	
PCB260	22.573	-2.67			539454	VV	2
	22.844				78751	VV	
	22.945				61115	VV	
	23.053				368887	VV	
	23.281				235493	VV	
	23.539				54229	VV	
PCB260	23.626	-1.17			433821	VE	2
	23.792				61425	EV	
	23.993				45606	VV	
	24.211				53343	VE	
	24.333				12313	EV	
PCB260	24.436	-0.98	191.9	+	130061	VE	2
	24.591				9635	EV	
	24.778				161475	VV	
	24.975				185379	VV	
	25.160				210641	VV	

	25.379			488061	VE	
PCB260	25.503	-0.75	42.73	60091	EV	2
	25.626			13104	EV	
PCB260	25.780	-1.45	97.28	69388	VV	2
	25.937			50848	VV	
	26.055			18521	VV	
	26.207			17447	VV	
	26.319			14800	VV	
	26.584			6089	VV	
	26.705			4957	VV	
	26.831			6527	VV	
	26.951			57358	VV	
	27.108			165378	VV	
	27.213			92790	VV	
DBUCLE	27.377	0.33	16.46	61919	VV	
	27.490			137433	VE	
	27.629			19569	EV	
	27.739			10979	EV	
	27.966			12788	VV	
	28.268			6054	VV	
	28.465			3150	VV	
	28.719			3749	VV	
	29.162			14986	VV	
	29.271			13731	VV	
	29.399			9644	VV	
	29.578			70529	VE	
	29.900			1813	EV	
	30.066			3034	EB	
	30.453			28947	BB	
	30.918			2235	BV	
	31.071			910	VV	
	31.366			771	VV	
	31.551			735	VV	
	31.939			4085	VV	
	32.107			8086	VV	
	32.676			727	VB	
	32.935			329	BB	
	33.120			410	BB	
	33.593			658	BB	
	34.440			3774	BB	
	35.267			424	BB	
	35.701			200	BB	
	36.296			536	BB	
	36.860			14469	BE	
	37.146			1030	EB	
	38.131			2782	BV	
	38.382			1302	VB	
	38.921			15487	BE	
	39.716			175	EB	

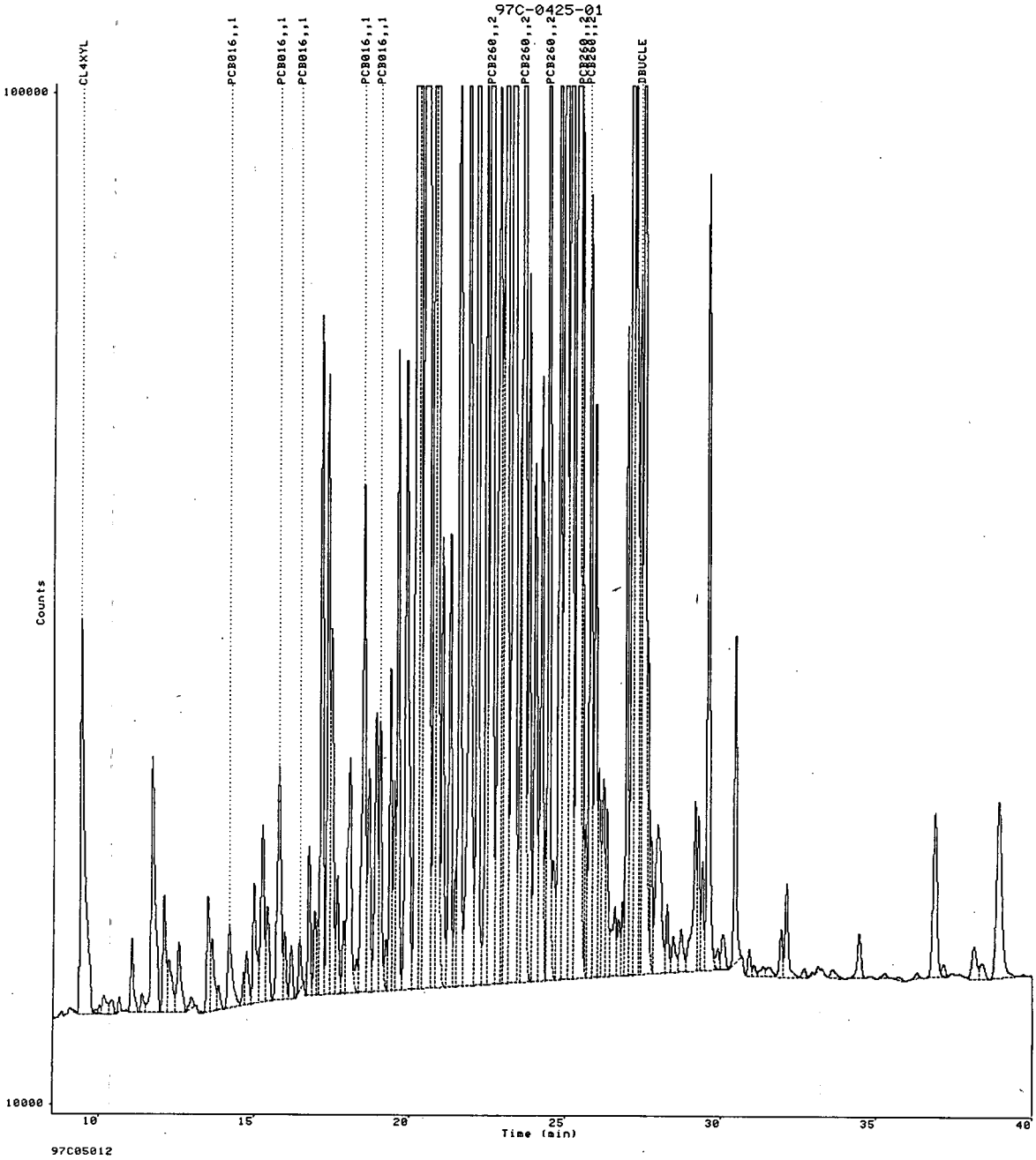
GROUP REPORT

Group	UG/SAMPLE
1	180.6
2	331.9

ANALYSIS NOTES

```
1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)
--------------------------------------------------------------------------------
```

Data file: DISK:[TAYLORC]8397316028.RAW;1
Report: 1197249617
Acquired: 14-NOV-1997 01:07:00
Time range: 8.50-40.00



0367

Date.....15-NOV-1997 16:17:07.16 User: TAYLORC
Report number.....1197249618
Raw file.....DISK:[TAYLORC]8397316029.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 01:51:00
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05013
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....119
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	9.261			206		BV	
CL4XYL	9.397	-1.30	17.66	43695		VE	
	10.011			163		EB	
	10.147			706		BB	
	10.375			562		BB	
	11.045			9094		BV	
	11.374			4992		VV	
	11.691			3423		VV	
	12.055			2159		VV	
	12.244			16437		VV	
	12.556			53295		VE	
	12.840			4131		EB	
	13.308			711		BV	
	13.447			3899		VV	
	13.647			3872		VV	

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	13.763			3519	VV	
PCB016	14.182	0.03	0.6107 -	1057	VV	1
	14.358			1534	VV	
	14.590			412	VV	
	14.750			38853	VB	
	15.228			46081	BV	
PCB016	15.741	2.13	7.242	9609	VV	1
	15.954			65741	VV	
PCB016	16.450	0.68	43.72	24922	VV	1
	16.741			9011	VE	
	16.957			1544	EV	
	17.139			698192	VV	
	17.339			282518	VE	
	17.463			34229	EV	
	17.653			24888	VE	
	17.862			3954	EV	
	17.999			16962	VV	
PCB016	18.503	-0.34		275393	VV	1
	18.672			76704	VV	
	18.919			46818	VV	
PCB016	19.024	-0.22		259392	VE	1
	19.213			15209	EV	
	19.363			148260	VV	
	19.586			932476	VV	
	19.844			503327	VE	
	19.963			54821	EV	
	20.176			975899	VV	
	20.441			979561	VV	
	20.742			972344	VV	
	21.000			303495	VE	
	21.246			13054	EV	
	21.417			16892	EV	
	21.557			755125	VV	
	21.865			974678	VE	
	21.980			145599	EV	
	22.126			969283	VV	
	22.406			977702	VV	
PCB260	22.561	-1.93		972531	VV	2
	22.828			718241	VV	
	22.943			419933	VV	
	23.040			973925	VV	
	23.286			978269	VV	
	23.537			612934	VV	
PCB260	23.611	-0.26		968934	VE	2
	23.840			170401	EV	
	23.981			337865	VV	
	24.202			155549	VV	
PCB260	24.429	-0.56		981319	VE	2
	24.576			43423	EV	
	24.770			975227	VV	
	24.968			971896	VV	
	25.152			972550	VV	
	25.365			973433	VV	
PCB260	25.497	-0.44		503461	VE	2
	25.619			84380	EV	
PCB260	25.776	-1.20		588849	VV	2
	25.931			503953	VV	
	26.043			163499	VV	
	26.212			91046	VV	
	26.317			91041	VE	

	26.525				13984	EV
	26.692				19881	EV
	26.826				31196	VV
	26.944				438972	VV
	27.106				976739	VV
	27.201				973697	VV
DBUCLE	27.482	-5.99	371.9	+	975294	VV
	27.616				302268	VV
	27.734				97334	VV
	27.924				127232	VE
	28.106				14464	EV
	28.260				74383	VV
	28.457				35128	VV
	28.705				24453	VV
	28.931				18611	VV
	29.153				74833	VV
	29.262				128689	VV
	29.390				55654	VV
	29.570				565986	VE
	29.899				31092	EV
	30.031				37280	EV
	30.344				11896	VV
	30.544				41459	VE
	30.910				9149	EV
	31.075				12730	VV
	31.234				3203	VV
	31.574				4219	VV
	31.933				25912	VV
	32.100				49629	VE
	32.325				1832	EV
	32.666				10410	VV
	33.054				3403	VB
	33.415				513	BB
	33.835				459	BB
	34.432				17669	BE
	34.835				156	EB
	35.254				257	BB
	35.804				874	BB
	36.855				23925	BB
	37.601				2712	BB
	38.118				1159	BV
	38.385				674	VB
	38.921				8771	BE
	39.271				570	EB

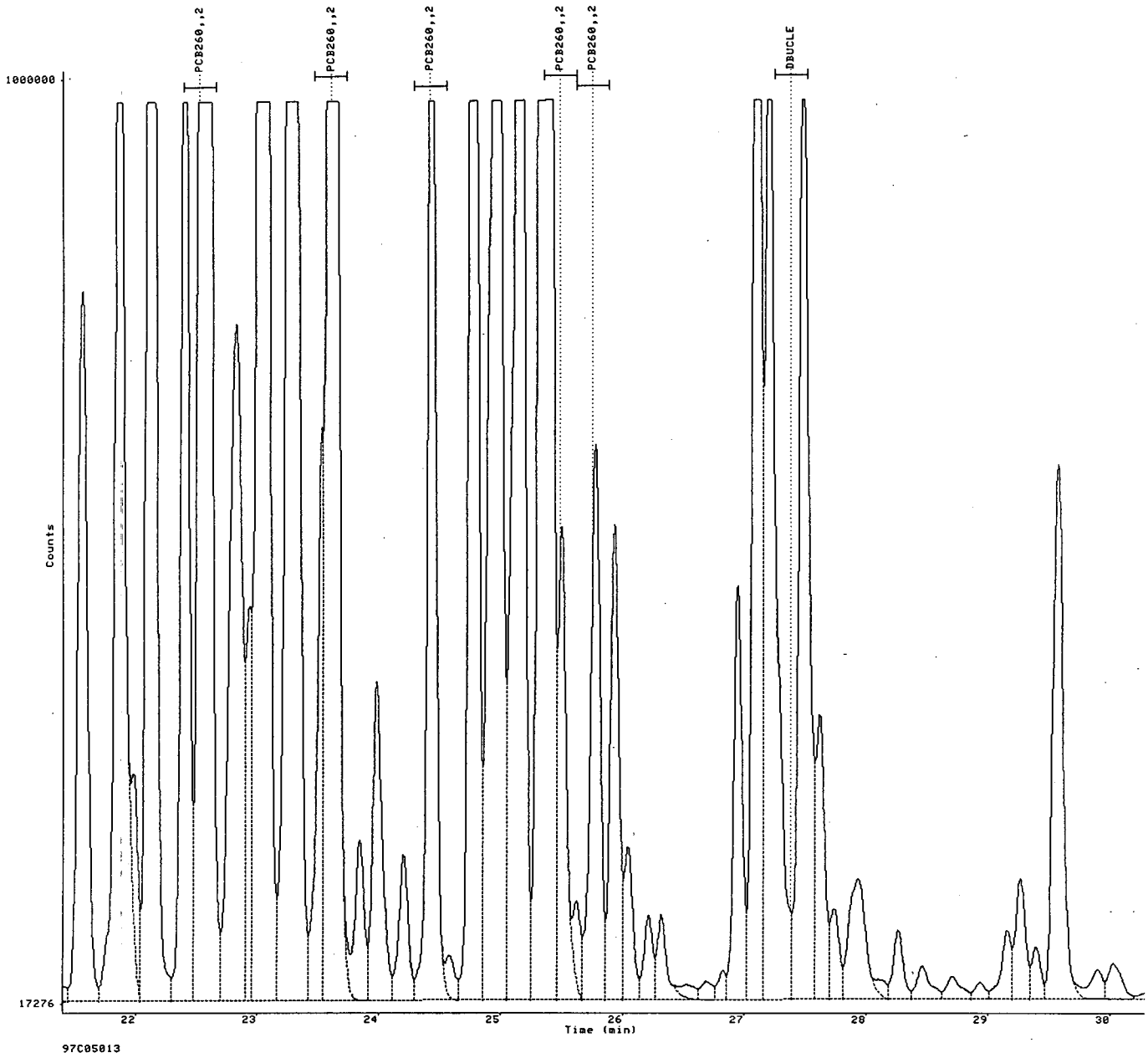
GROUP REPORT

Group	UG/SAMPLE
1	51.57

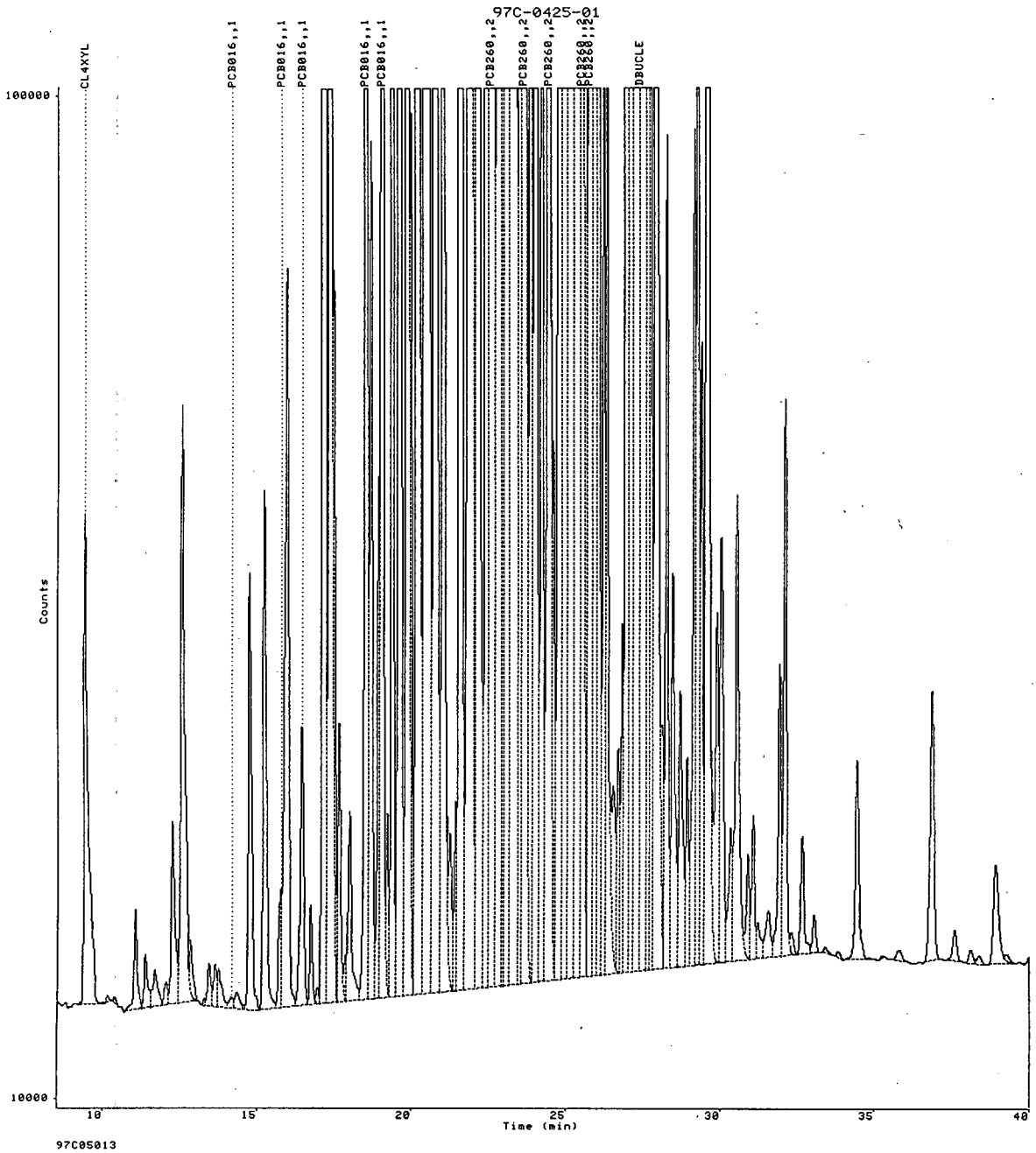
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316029.RAW;1
Report: 1197249618
Acquired: 14-NOV-1997 01:51:00
Time range: 21.40-30.29



Data file: DISK:[TAYLORC]8397316029.RAW;1
Report: 1197249618
Acquired: 14-NOV-1997 01:51:00
Time range: 8.50-40.00



Date.....15-NOV-1997 16:17:12.18 User: TAYLORC
Report number.....1197249619
Raw file.....DISK:[TAYLORC]8397316030.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 02:34:45
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05014
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

see reprint

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....110
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.397	-1.30	16.81	41639		BB	
	10.025			345		BV	
	10.140			893		VV	
	10.369			648		VB	
	11.051			12407		BV	
	11.387			3412		VV	
	11.692			16495		VV	
	12.074			31881		VE	
	12.556			2982		EB	
	12.896			251		BB	
	13.495			5463		BB	
	14.040			111		BB	
PCB016	14.184	-0.07	-0.2351 -	458		BV	1
	14.351			1998		VE	
	14.591			278		EV	

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	14.757			1791	VV	
	15.005			564	VB	
	15.245			2355	BV	
	15.435			1604	VB	
PCB016	15.785	-0.48	1.524	2932	BV	1
	15.867			1964	VV	
	15.955			3055	VE	
	16.203			210	EB	
PCB016	16.460	0.04	1.405	1330	BB	1
	16.747			424	BV	
	17.029			894	VV	
	17.142			6373	VB	
	17.343			4565	BV	
	17.473			3951	VV	
	17.737			2301	VB	
	17.972			1134	BV	
	18.132			1826	VV	
	18.304			1541	VV	
PCB016	18.502	-0.27	6.380	4295	VV	1
	18.682			2814	VV	
	18.873			4796	VV	
PCB016	19.026	-0.34	17.84	7280	VE	1
	19.231			826	EV	
	19.362			2484	VV	
	19.586			9017	VB	
	19.877			6973	BV	
	20.169			35064	VV	
	20.283			46472	VV	
	20.433			25612	VV	
	20.521			10432	VV	
	20.739			22194	VV	
	20.838			16426	VV	
	21.001			5639	VB	
	21.242			5978	BB	
	21.427			2118	BV	
	21.557			6717	VB	
	21.915			22893	BV	
	22.124			17274	VB	
	22.290			379	BV	
	22.403			12053	VV	
PCB260	22.565	-2.15	86.67	71461	VV	2
	22.833			9064	VV	
	23.045			42813	VV	
	23.275			31706	VV	
PCB260	23.617	-0.61	31.18	62389	VV	2
	23.782			11651	VV	
	23.991			4055	VV	
	24.033			4202	VV	
	24.208			8708	VV	
PCB260	24.429	-0.53	17.65	13602	VE	2
	24.638			1425	EV	
	24.772			19632	VV	
	24.972			22315	VV	
	25.153			28522	VV	
	25.379			88438	VE	
PCB260	25.494	-0.23	6.290	9658	EV	2
	25.616			1683	EV	
PCB260	25.770	-0.84	12.57	9760	VV	2
	25.936			6872	VV	
	26.058			5865	VV	

	26.211			7700	VV
	26.309			2583	VV
	26.480			809	VB
	26.702			399	BB
	26.826			647	BB
	26.946			7306	BB
	27.103			20323	BV
	27.207			9074	VV
	27.274			6417	VV
DBUCLE	27.383	-0.08	12.22	46079	VV
	27.482			17684	VB
	27.912			1128	BB
	28.256			2110	BB
	28.485			964	BV
	28.705			683	VB
	28.992			1097	BV
	29.150			3261	VV
	29.260			1861	VV
	29.392			2095	VV
	29.573			9450	VB
	29.897			188	BB
	30.105			405	BB
	30.345			201	BV
	30.447			1198	VB
	30.905			794	BV
	31.068			210	VB
	31.383			83	BB
	31.931			602	BV
	32.100			1318	VB
	32.678			274	BB
	33.119			482	BB
	34.433			1433	BB
	36.852			21514	BB
	38.124			924	BB
	38.919			6397	BB

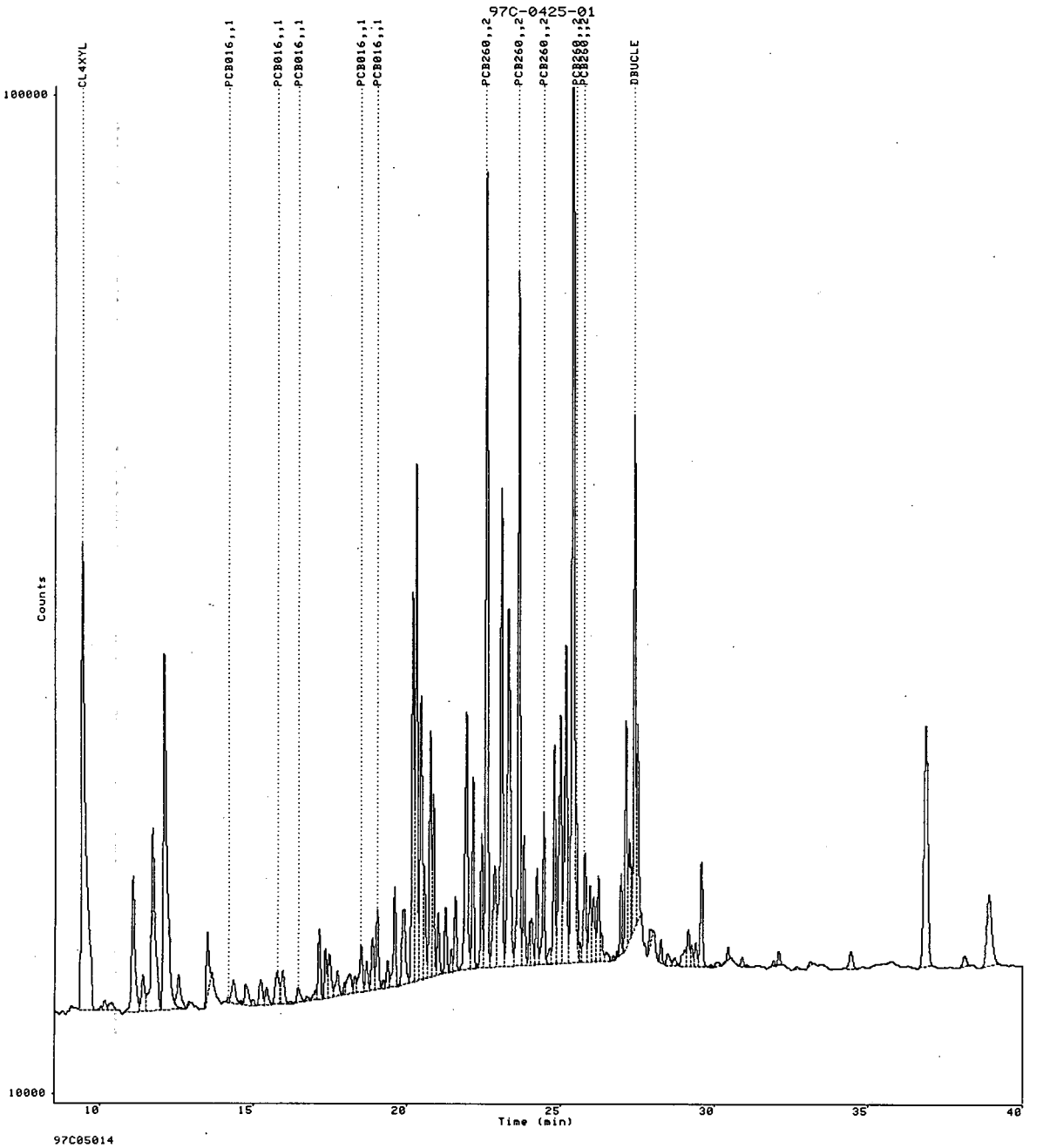
GROUP REPORT

Group	UG/SAMPLE
1	26.91
2	154.4

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316030.RAW;1
Report: 1197249619
Acquired: 14-NOV-1997 02:34:45
Time range: 8.50-40.00



0376

Date.....18-NOV-1997 18:48:01.51 User: TAYLORC
Report number.....1197251779
Raw file.....DISK:[TAYLORC]8397316030.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....5

Acq. date.....14-NOV-1997 02:34:45
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05014
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.506 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....108
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.397	-1.30	15.49	41639			BB	
	10.025			345			BV	
	10.140			893			VV	
	10.369			648			VB	
	11.051			12407			BV	
	11.387			3412			VV	
	11.692			16495			VV	
	12.074			31881			VE	
	12.556			2982			EB	
	12.896			251			BB	
	13.495			5463			BB	
	14.040			111			BB	

0377

PCB016	14.184	-0.07	-0.01444-	458	BV	1
	14.351			1998	VE	
	14.591			278	EV	
	14.757			1791	VV	
	15.005			564	VB	
	15.245			2355	BV	
	15.435			1604	VB	
PCB016	15.785	-0.48	1.664	2932	BV	1
	15.867			1964	VV	
	15.955			3055	VE	
	16.203			210	EB	
PCB016	16.460	0.04	1.532	1330	BB	1
	16.747			424	BV	
	17.029			894	VV	
	17.142			6373	VB	
	17.343			4565	BV	
	17.473			3951	VV	
	17.737			2301	VB	
	17.972			1134	BV	
	18.132			1826	VV	
	18.304			1541	VV	
PCB016	18.502	-0.27	6.173	4295	VV	1
	18.682			2814	VV	
	18.873			4796	VV	
PCB016	19.026	-0.34	18.19	7280	VE	1
	19.231			826	EV	
	19.362			2484	VV	
PCB254	19.586	0.38	14.86	9017	VB	2
	19.877			6973	BV	
	20.169			35064	VV	
	20.283			46472	VV	
PCB254	20.433	-0.22	24.56	25612	VV	2
	20.521			10432	VV	
PCB254	20.739	0.03	45.59	22194	VV	2
	20.838			16426	VV	
	21.001			5639	VB	
	21.242			5978	BB	
	21.427			2118	BV	
	21.557			6717	VB	
	21.915			22893	BV	
PCB254	22.124	0.02	21.89	17274	VB	2
	22.290			379	BV	
	22.403			12053	VV	
PCB260	22.565	-0.41	97.40	71461	VV	3
	22.833			9064	VV	
	23.045			42813	VV	
	23.275			31706	VV	
PCB260	23.617	-0.61	33.86	62389	VV	3
	23.782			11651	VV	
	23.991			4055	VV	
	24.033			4202	VV	
	24.208			8708	VV	
PCB260	24.429	-0.53	18.31	13602	VE	3
	24.638			1425	EV	
PCB254	24.772	-0.13	33.98	19632	VV	2
	24.972			22315	VV	
	25.153			28522	VV	
	25.379			88438	VE	

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PCB260	25.494	-0.23	6.688	9658	EV	3
	25.616			1683	EV	
PCB260	25.770	-0.84	13.18	9760	VV	3
	25.936			6872	VV	
	26.058			5865	VV	
	26.211			7700	VV	
	26.309			2583	VV	
	26.480			809	VB	
	26.702			399	BB	
	26.826			647	BB	
	26.946			7306	BB	
	27.103			20323	BV	
	27.207			9074	VV	
	27.274			6417	VV	
DBUCLE	27.383	-0.08	11.80	46079	VV	
	27.482			17684	VB	
	27.912			1128	BB	
	28.256			2110	BB	
	28.485			964	BV	
	28.705			683	VB	
	28.992			1097	BV	
	29.150			3261	VV	
	29.260			1861	VV	
	29.392			2095	VV	
	29.573			9450	VB	
	29.897			188	BB	
	30.105			405	BB	
	30.345			201	BV	
	30.447			1198	VB	
	30.905			794	BV	
	31.068			210	VB	
	31.383			83	BB	
	31.931			602	BV	
	32.100			1318	VB	
	32.678			274	BB	
	33.119			482	BB	
	34.433			1433	BB	
	36.852			21514	BB	

GROUP REPORT

Group	UG/SAMPLE
1	27.55
2	140.9
3	169.4

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

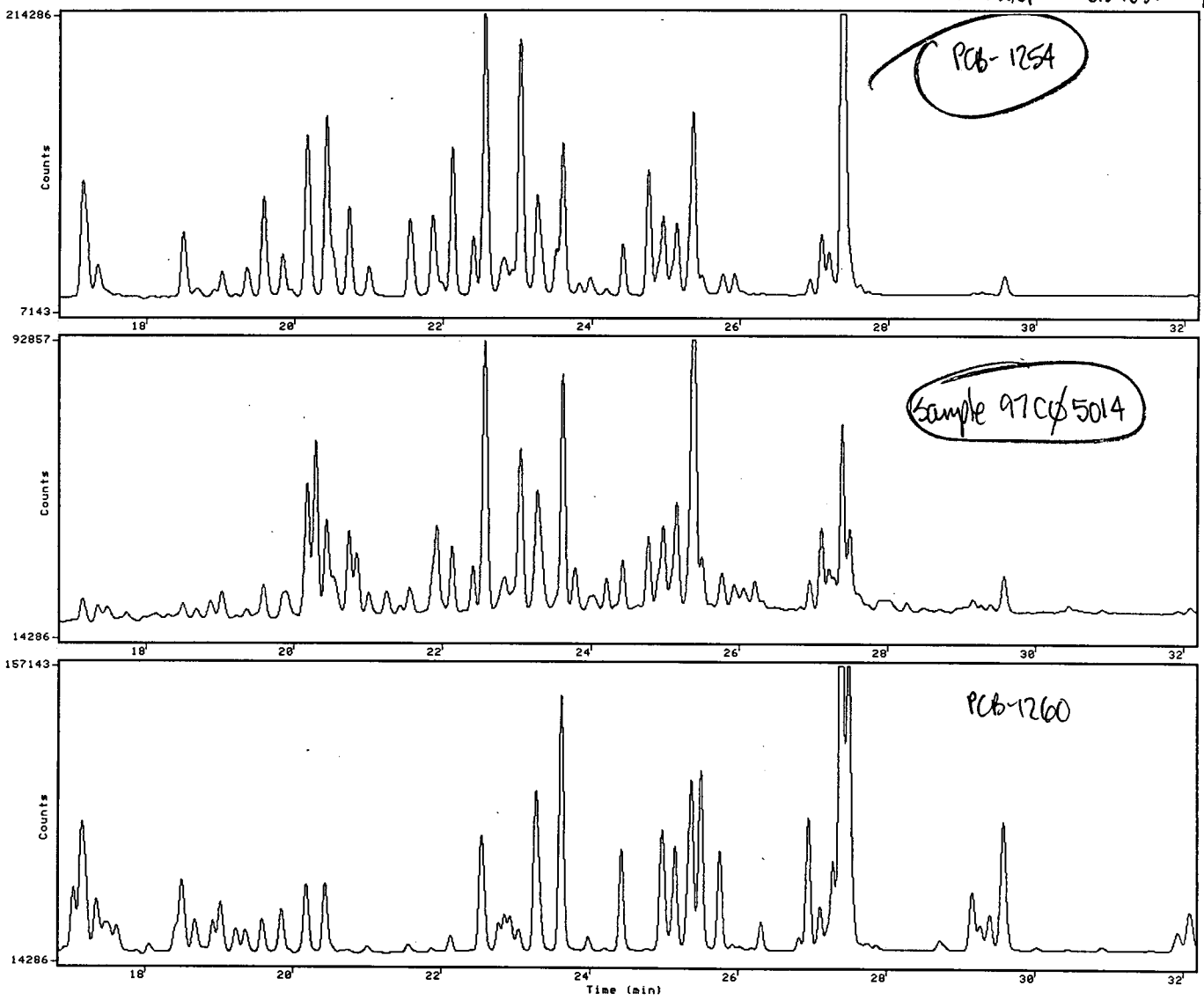
0379

Date: 18-NOV-1997 18:47:29.71

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316006	16.81	32.20	7143	214286	1
8397316030	16.81	32.20	14286	92857	1
8397316023	16.81	32.20	14286	157143	1

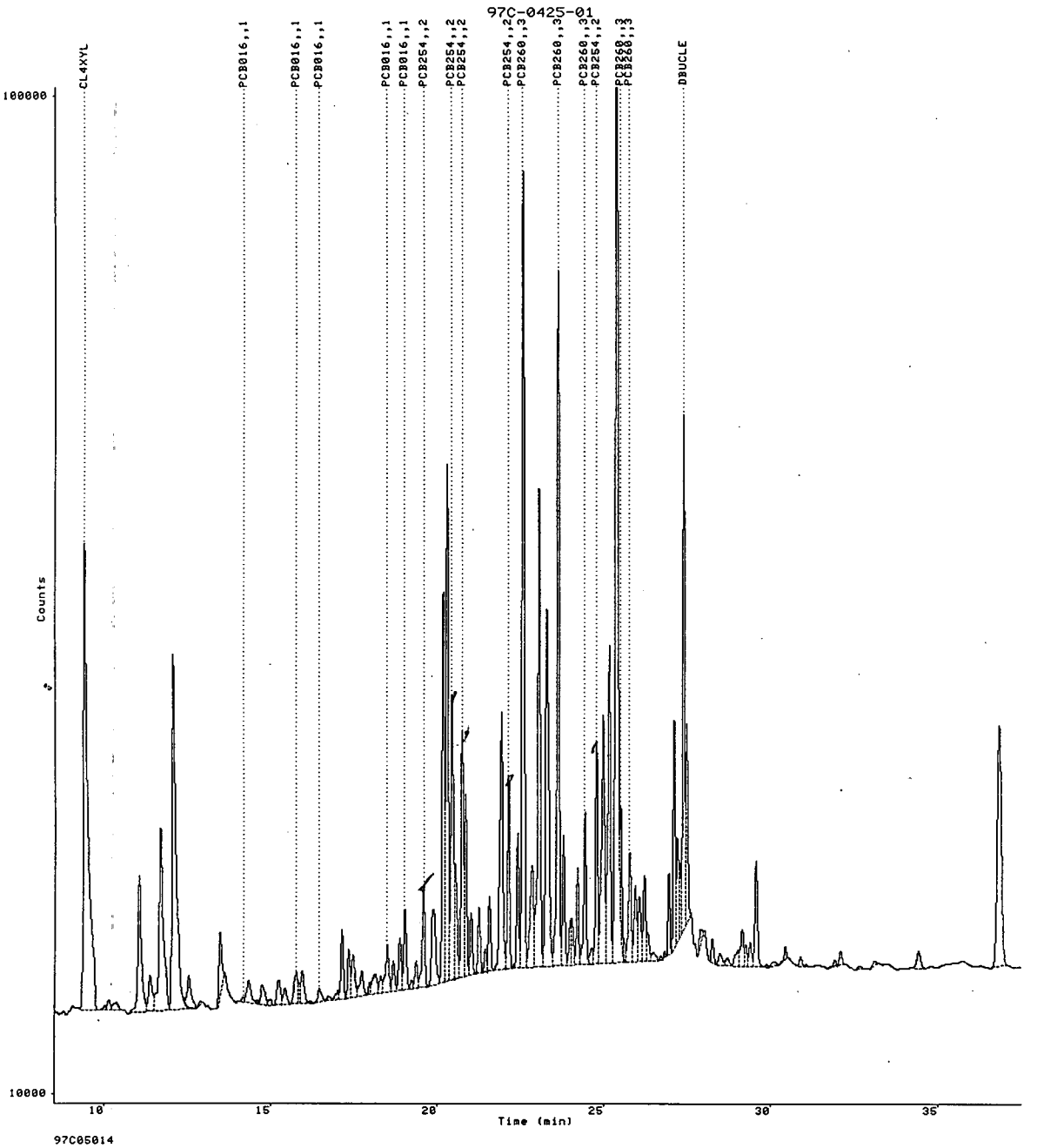
1254

best match: ~~PCB-1260~~ ~~PCB 1254~~ 11/12/97



0380

Data file: DISK:[TAYLORC]8397316030.RAW;1
Report: 1197251779
Acquired: 14-NOV-1997 02:34:45
Time range: 8.50-37.50



0381

Date.....15-NOV-1997 16:17:16.68 User: TAYLORC
Report number.....1197249620
Raw file.....DISK:[TAYLORC]8397316031.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 03:18:16
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05015
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
length.....30 M
diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....120
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.402	-1.62	15.59	38690		BB	
	9.883			141		BB	
	10.019			175		BB	
	10.161			1711		BB	
	10.642			236		BB	
	11.051			6991		BV	
	11.399			8942		VV	
	11.701			17432		VV	
	12.080			75618		VE	
	12.564			4376		EV	
	12.996			3003		EB	
	13.319			51		BB	
	13.502			71783		BV	
	13.638			33826		VE	
	14.039			2318		EV	

0382

PCB016	14.183	-0.02	3.731	3250	EV	1
	14.357			12352	VV	
	14.638			3434	VV	
	14.794			3331	VV	
	15.024			3709	VV	
	15.260			7909	VV	
	15.448			6937	VV	
PCB016	15.767	0.60	5.829	7969	VV	1
	15.974			4232	VV	
	16.237			2381	VV	
PCB016	16.562	-6.04	7.697	5017	VV	1
	16.756			3318	VV	
	17.159			18881	VV	
	17.357			14406	VV	
	17.494			12539	VV	
	17.677			4379	VV	
	17.998			6723	VV	
	18.087			6812	VV	
	18.248			5580	VV	
PCB016	18.514	-1.01	27.22	16231	VV	1
	18.697			9008	VV	
	18.901			12738	VV	
PCB016	19.047	-1.63	33.94	13406	VV	1
	19.382			9152	VV	
	19.497			10984	VV	
1254 –	19.618			21596	VV	
	19.892			19188	VV	
	20.204			79460	VV	
	20.300			40746	VV	
1254	-20.508			56388	VV	
1254	-20.839			49173	VV	
	21.105			17834	VV	
	21.359			85349	VV	
	21.496			92968	VE	
	21.744			11697	EV	
	21.965			89914	VV	
1254 –	22.177			45416	VV	
PCB260	22.455	4.43	32.27	29713	VV	2
	22.607			155439	VE	
	22.861			29955	EV	
	23.079			101987	VV	
	23.290			72713	VV	
	23.547			18793	VV	
PCB260	23.657	-3.02	57.78	109502	VE	2
	23.820			18683	EV	
	24.068			48022	VV	
	24.237			70113	VV	
PCB260	24.448	-1.65	55.66	41342	VV	2
	24.665			26810	VV	
1254 –	24.793			49715	VV	
	24.987			56832	VV	
	25.172			64678	VV	
	25.412			296367	VE	
PCB260	25.513	-1.35	14.15	20962	EV	2
	25.636			13668	EV	
PCB260	25.780	-1.43	49.97	37248	EV	2
	25.958			25464	VV	
	26.068			22346	VV	
	26.220			27761	VV	
	26.330			16660	VV	

	26.523			15234	VV
	26.573			15339	VV
	26.742			13245	VV
	26.834			13265	VV
	26.960			26055	VV
	27.122			45284	VV
	27.289			54715	VV
DBUCLE	27.403	-1.25	13.87	52252	VV
	27.508			51554	VV
	27.707			14910	VV
	28.055			50395	VE
	28.296			9496	EV
	28.528			15083	VV
	28.721			9799	VV
	29.175			17478	VV
	29.298			11324	VV
	29.417			9719	VV
	29.596			26781	VE
	29.881			3055	EV
	30.175			6436	EV
	30.459			8148	VV
	30.576			4716	VV
	30.918			5281	VV
	31.369			4427	VV
	31.638			3003	VV
	31.861			3036	VV
	31.934			3032	VV
	32.122			5170	VV
	32.495			683	VV
	32.657			1343	VB
	32.948			1425	BB
	33.148			1158	BB
	33.601			1840	BB
	34.444			2543	BB
	34.821			677	BB
	35.124			474	BB
	35.768			408	BB
	36.367			795	BB
	36.869			17628	BE
	37.180			772	EB
	37.684			849	BB
	38.175			11161	BV
	38.426			4368	VB
	38.948			49801	BB
	39.724			1741	BB

GROUP REPORT

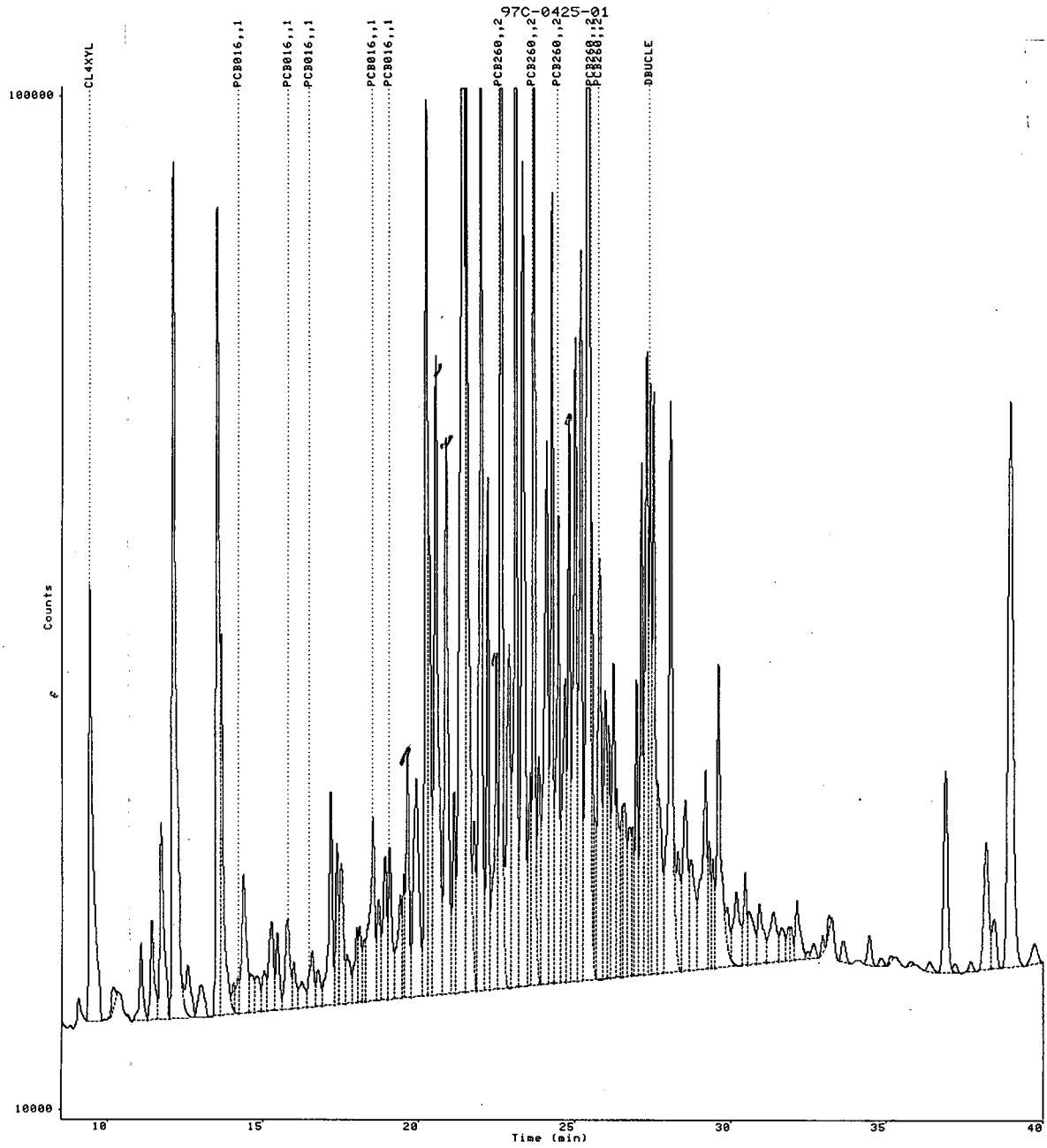
Group	UG/SAMPLE
1	78.41
2	209.8

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]8397316031.RAW;1
Report: 1197249620
Acquired: 14-NOV-1997 03:18:16
Time range: 8.50-40.00

97C05015



97C05015

0385

Date.....15-NOV-1997 16:17:22.12 User: TAYLORC
Report number.....1197249621
Raw file.....DISK:[TAYLORC]8397316032.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 04:02:11
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05016
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
length.....30 M
diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....122
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	9.260			62		BB	
CL4XYL	9.401	-1.55	16.19	40139		BB	
	10.157			1441		BB	
	10.656			966		BV	
	11.130			616367		VE	
	11.702			55303		EV	
	12.063			26171		EV	
	12.243			23624		EV	
	12.336			23242		EV	
	12.561			52521		VE	
	12.862			4360		EV	
	13.028			7906		EV	
	13.176			14511		VV	
	13.497			43335		VV	
	13.608			30666		VV	

0386

	13.858				22275	VV	
PCB016	14.192	-0.54			100959	VE	1
	14.469				5559	EV	
	14.536				6961	EV	
	14.665				88663	VV	
	14.986				39652	VV	
	15.115				74332	VV	
	15.261				177413	VV	
	15.412				125774	VV	
PCB016	15.789	-0.72	208.3	+	178398	VE	1
	15.970				23707	EV	
	16.193				55492	VV	
PCB016	16.469	-0.49	86.50		45892	VV	1
	16.591				29296	VV	
	16.746				151022	VV	
	16.932				92754	VV	
	17.030				61644	VV	
	17.149				573635	VV	
	17.351				569925	VV	
	17.464				341357	VE	
	17.664				61441	EV	
	17.790				78451	EV	
	18.039				98976	VV	
PCB016	18.511	-0.85			428575	VV	1
	18.681				187738	VV	
	18.820				61687	VV	
	18.929				224471	VV	
PCB016	19.032	-0.72			229037	VV	1
	19.226				76412	VV	
	19.368				150510	VV	
	19.598				388554	VV	
	19.856				439749	VV	
	20.183				936024	VV	
	20.452				678037	VV	
	20.758				499577	VV	
	20.850				255262	VV	
	21.022				275631	VV	
	21.266				178603	VV	
	21.575				406875	VV	
	21.904				430904	VV	
	22.158				668477	VV	
	22.434				405442	VV	
PCB260	22.589	-3.58			932239	VV	2
	22.834				377203	VV	
	22.952				293822	VV	
	23.057				930343	VV	
	23.285				560425	VV	
	23.538				270657	VV	
PCB260	23.631	-1.44			849730	VE	2
	23.799				148330	EV	
	23.990				191805	VV	
	24.209				203901	VV	
PCB260	24.440	-1.19	556.8	+	284986	VV	2
	24.780				440973	VV	
	24.978				358957	VV	
	25.163				439647	VV	
	25.378				807650	VE	
PCB260	25.505	-0.92	85.58		112996	EV	2
PCB260	25.784	-1.66	200.2	+	129136	VV	2
	25.939				87003	VE	

	26.189			12341	EV
	26.320			16264	EB
	26.725			1050	BV
	26.826			4189	VV
	26.951			76603	VV
	27.110			258342	VV
	27.214			186112	VE
DBUCLE	27.391	-0.57	8.558	32303	EV
	27.491			221443	VE
	27.630			30613	EV
	27.745			5354	EV
	27.871			4518	VV
	28.042			9777	VB
	28.421			830	BB
	28.576			143	BB
	28.722			3422	BB
	29.028			4519	BV
	29.164			18698	VV
	29.271			20320	VV
	29.408			11995	VV
	29.585			120148	VB
	29.843			1193	BV
	30.034			5597	VB
	30.451			39271	BE
	30.659			1470	EB
	30.927			1415	BB
	31.206			372	BV
	31.373			536	VV
	31.567			802	VV
	31.699			467	VB
	31.941			6362	BV
	32.107			12978	VE
	32.531			445	EV
	32.655			412	EB
	32.896			290	BB
	33.263			256	BB
	33.576			156	BB
	34.099			227	BB
	34.445			4349	BV
	34.769			1671	VB
	36.267			110	BB
	36.535			233	BV
	36.858			16569	VB
	37.659			201	BB
	38.138			5128	BV
	38.399			1831	VB
	38.928			14916	BB

GROUP REPORT

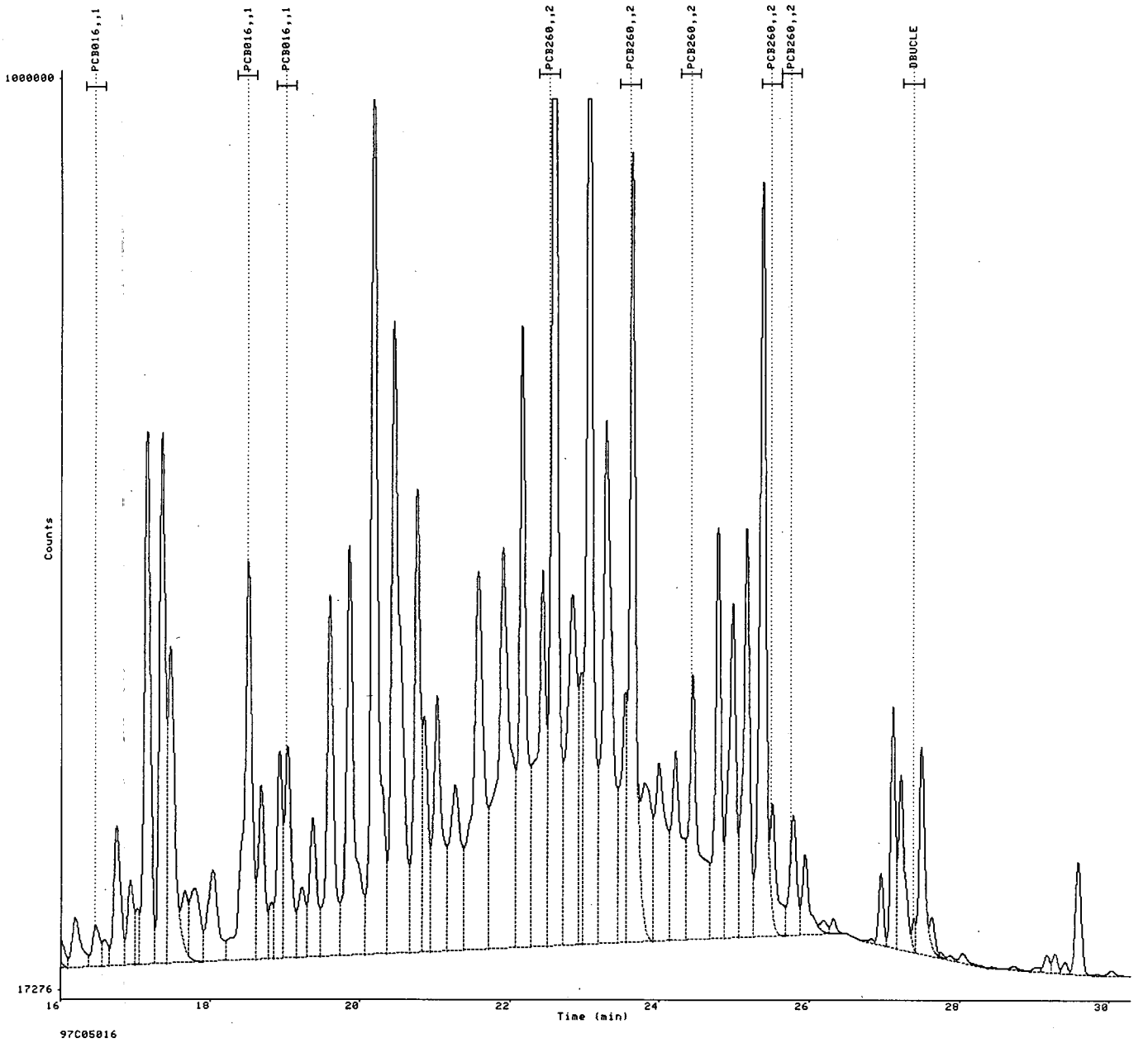
Group	UG/SAMPLE
1	294.8
2	842.5

ANALYSIS NOTES

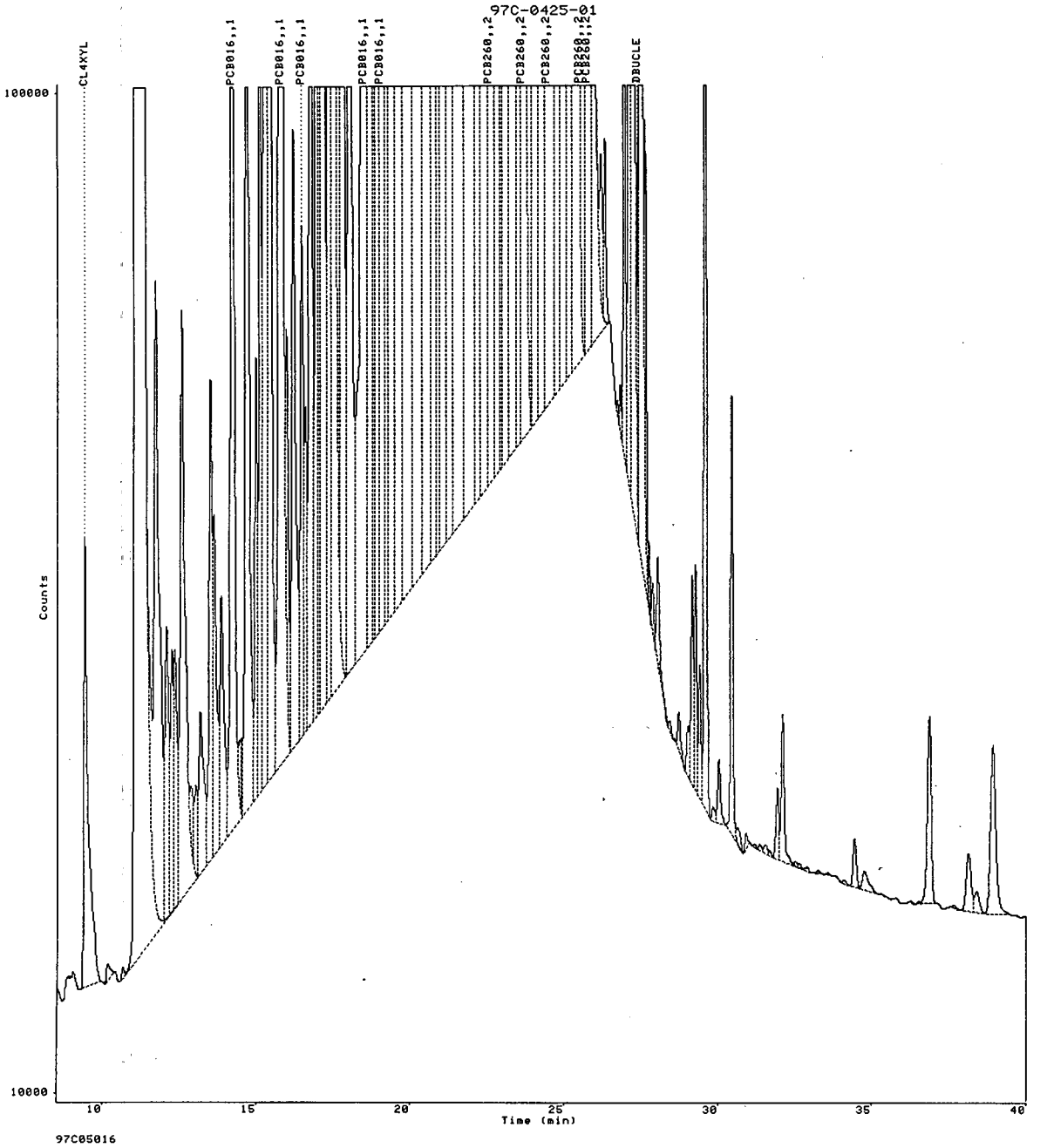
0388

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316032.RAW;1
Report: 1197249621
Acquired: 14-NOV-1997 04:02:11
Time range: 16.00-30.29



Data file: DISK:[TAYLORC]8397316032.RAW;1
Report: 1197249621
Acquired: 14-NOV-1997 04:02:11
Time range: 8.50-40.00



0390

Date.....15-NOV-1997 16:17:29.24 User: TAYLORC
Report number.....1197249622
Raw file.....DISK:[TAYLORC]8397316033.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 04:46:07
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05018
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....130
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	9.263			128		BV	
CL4XYL	9.399	-1.46	16.39	40621		VB	
	10.021			407		BV	
	10.146			858		VV	
	10.436			1441		VV	
	10.652			4389		VV	
	11.055			15033		VE	
	11.375			2003		EV	
	11.698			59991		VV	
	12.072			11120		VV	
	12.240			6521		VV	
	12.332			5491		VV	
	12.562			17609		VE	
	12.860			1029		EV	
	13.172			356		VV	

0391

	13.287				295	VB	
	13.498				6625	BV	
	13.620				5353	VV	
	13.857				7488	VB	
PCB016	14.192	-0.56	37.70		25404	BV	1
	14.665				34899	VV	
	14.981				45319	VV	
	15.105				26230	VV	
	15.256				56041	VV	
	15.408				35779	VV	
PCB016	15.786	-0.56	62.10		68399	VV	1
	15.969				19655	VV	
	16.179				21710	VV	
	16.334				3118	VV	
PCB016	16.462	-0.07	29.56		17344	VV	1
	16.585				6510	VV	
	16.743				75655	VV	
	16.930				39797	VV	
	17.145				326892	VV	
	17.346				303096	VV	
	17.463				197926	VE	
	17.659				37760	EV	
	17.858				26754	VV	
	18.035				62161	VE	
	18.285				6881	EV	
PCB016	18.508	-0.63			228311	VV	1
	18.678				99530	VV	
	18.924				104659	VV	
PCB016	19.029	-0.52	466.0	+	113898	VE	1
	19.222				18868	EV	
	19.359				95956	VE	
	19.488				20137	EV	
	19.593				223873	VV	
	19.852				245516	VV	
	20.177				944944	VV	
	20.289				251277	VV	
	20.442				647061	VV	
	20.746				440008	VV	
	20.846				328328	VV	
	21.008				144769	VE	
	21.238				34712	EV	
	21.426				15170	VV	
	21.560				273616	VV	
	21.869				291170	VV	
	22.131				484819	VV	
	22.410				237091	VV	
PCB260	22.573	-2.64			982039	VV	2
	22.835				179201	VV	
	22.947				127752	VV	
	23.052				962012	VV	
	23.280				458175	VV	
	23.534				140908	VV	
PCB260	23.625	-1.10			824598	VE	2
	23.791				87711	EV	
	23.988				87537	VV	
	24.207				97261	VV	
PCB260	24.436	-0.95	424.7	+	242792	VE	2
	24.578				12706	EV	
	24.777				389911	VV	
	24.975				351080	VV	

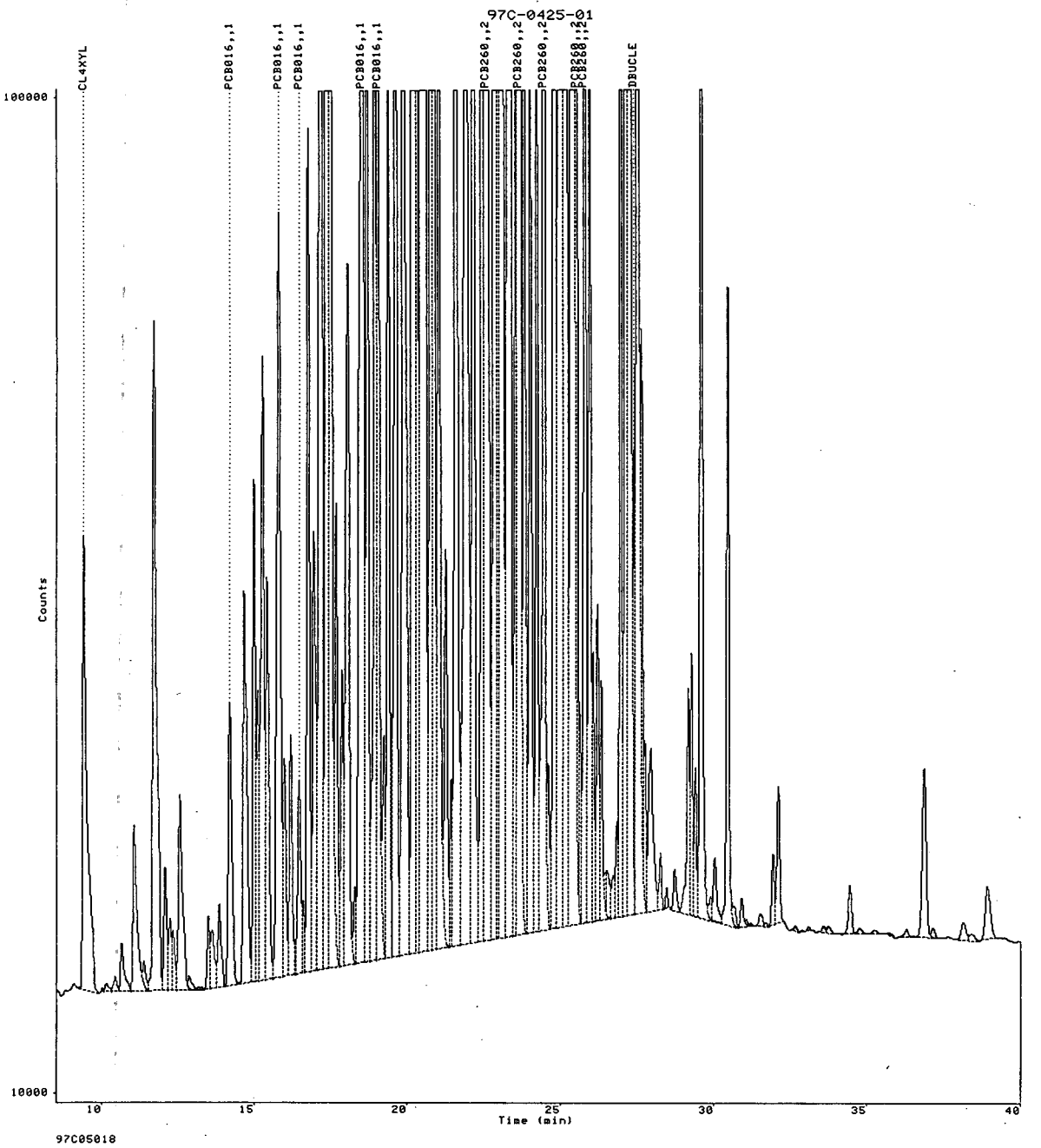
	25.161				410728	VV	
	25.377				886012	VE	
PCB260	25.503	-0.76	77.51		103557	EV	2
	25.621				18128	EV	
PCB260	25.781	-1.53	194.9	+	126416	VV	2
	25.938				93414	VV	
	26.049				24252	VV	
	26.197				28526	VV	
	26.318				21502	VE	
	26.453				3012	EV	
	26.507				4032	EV	
	26.731				3872	VV	
	26.835				8626	VV	
	26.950				96090	VV	
	27.107				300995	VV	
	27.211				196801	VE	
DBUCLE	27.389	-0.42	9.468		35735	EV	
	27.490				237226	VE	
	27.629				36627	EV	
	27.742				14163	EV	
	27.932				14582	VV	
	28.261				5105	VB	
	28.458				1881	BB	
	28.723				3647	BV	
	29.160				20246	VV	
	29.270				23495	VV	
	29.400				13247	VV	
	29.577				126319	VE	
	29.905				2049	EV	
	30.037				5761	EV	
	30.450				57127	VE	
	30.675				1728	EB	
	30.922				2568	BE	
	31.064				415	EV	
	31.227				274	EB	
	31.535				1109	BV	
	31.709				416	VB	
	31.939				6452	BV	
	32.107				12363	VB	
	32.668				380	BB	
	32.904				111	BB	
	33.103				337	BB	
	33.588				490	BV	
	33.745				559	VB	
	34.443				4336	BB	
	34.758				437	BB	
	35.261				283	BB	
	35.763				155	BB	
	36.284				648	BB	
	36.500				78	BB	
	36.857				15056	BE	
	37.145				827	EB	
	38.133				1537	BV	
	38.399				550	VB	
	38.927				4766	BB	

1	595.4
2	697.1

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316033.RAW;1
Report: 1197249622
Acquired: 14-NOV-1997 04:46:07
Time range: 8.50-40.00



Date.....15-NOV-1997 16:17:42.08 User: TAYLORC
Report number.....1197249624
Raw file.....DISK:[TAYLORC]8397316035.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 06:13:18
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05017
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....128
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.399	-1.47	16.83	41683			BB	
	10.012			422			BB	
	10.148			717			BB	
	10.433			813			BB	
	10.652			3025			BV	
	10.865			773			VV	
	11.058			36613			VV	
	11.699			29598			VV	
	12.071			9427			VV	
	12.243			6029			VV	
	12.331			5413			VV	
	12.562			14242			VE	
	12.851			378			EB	
	13.172			531			BB	
	13.497			6787			BV	

0396

	13.621				8402	VV	
	13.857				11454	VV	
PCB016	14.193	-0.62	40.14		26873	VV	1
	14.663				43703	VV	
	14.982				29589	VV	
	15.110				28186	VV	
	15.260				58174	VV	
	15.410				40900	VV	
PCB016	15.787	-0.63	59.31		65636	VV	1
	15.971				18161	VV	
	16.180				24943	VV	
PCB016	16.465	-0.25	25.79		15269	VV	1
	16.582				6813	VV	
	16.744				76026	VV	
	16.928				46418	VV	
	17.144				273768	VV	
	17.346				282607	VV	
	17.462				200950	VE	
	17.658				30634	EV	
	17.859				23142	VV	
	18.034				55591	VE	
	18.288				6717	EV	
PCB016	18.507	-0.61			192891	VV	1
	18.679				92965	VV	
	18.924				106697	VV	
PCB016	19.029	-0.55	350.0	+	99010	VE	1
	19.216				21028	EV	
	19.361				78921	VV	
	19.488				23553	VV	
	19.593				194673	VV	
	19.852				221614	VV	
	20.176				677489	VV	
	20.289				179895	VV	
	20.443				459986	VV	
	20.747				322479	VV	
	20.847				242407	VV	
	21.009				118595	VV	
	21.240				35600	VV	
	21.429				15915	VV	
	21.561				200962	VV	
	21.873				210445	VV	
	22.132				328883	VV	
	22.413				165874	VV	
PCB260	22.574	-2.67			872324	VV	2
	22.836				134853	VV	
	23.053				723301	VV	
	23.280				331172	VV	
	23.536				102340	VV	
PCB260	23.627	-1.20			563354	VE	2
	23.793				65798	EV	
	23.988				66547	VV	
	24.207				95928	VE	
	24.334				16661	EV	
PCB260	24.437	-1.02	265.8	+	171133	VE	2
	24.579				10600	EV	
	24.779				277770	VV	
	24.975				241098	VV	
	25.161				299518	VV	
	25.377				615691	VE	
PCB260	25.503	-0.81	55.42		76479	EV	2

	25.622			14680	EV	
PCB260	25.783	-1.63	132.0	91112	VV	2
	25.939			65846	VV	
	26.050			17978	VV	
	26.200			17040	VV	
	26.320			17089	VV	
	26.520			6280	VV	
	26.739			5404	VV	
	26.832			8284	VV	
	26.952			68354	VV	
	27.108			207713	VV	
	27.213			141302	VV	
DBUCLE	27.390	-0.48	11.02	41589	VV	
	27.490			170934	VE	
	27.630			26465	EV	
	27.746			10033	EV	
	27.931			10350	VV	
	28.259			5438	VV	
	28.454			3138	VV	
	28.587			2006	VV	
	28.724			4371	VV	
	29.051			3793	VV	
	29.162			16227	VV	
	29.272			17377	VV	
	29.401			10993	VV	
	29.580			88147	VE	
	29.905			1810	EV	
	30.040			4504	EV	
	30.451			72790	VE	
	30.676			1729	EB	
	30.925			2026	BV	
	31.064			647	VV	
	31.212			494	VV	
	31.380			308	VV	
	31.549			847	VV	
	31.706			562	VB	
	31.943			4556	BV	
	32.111			9082	VB	
	32.677			199	BB	
	32.931			181	BV	
	33.118			355	VB	
	33.579			221	BB	
	34.445			3326	BV	
	34.764			606	VB	
	35.274			246	BB	
	36.013			70	BV	
	36.288			646	VB	
	36.521			73	BB	
	36.860			15822	BE	
	37.149			916	EB	
	38.137			1731	BV	
	38.399			624	VB	
	38.932			6635	BB	

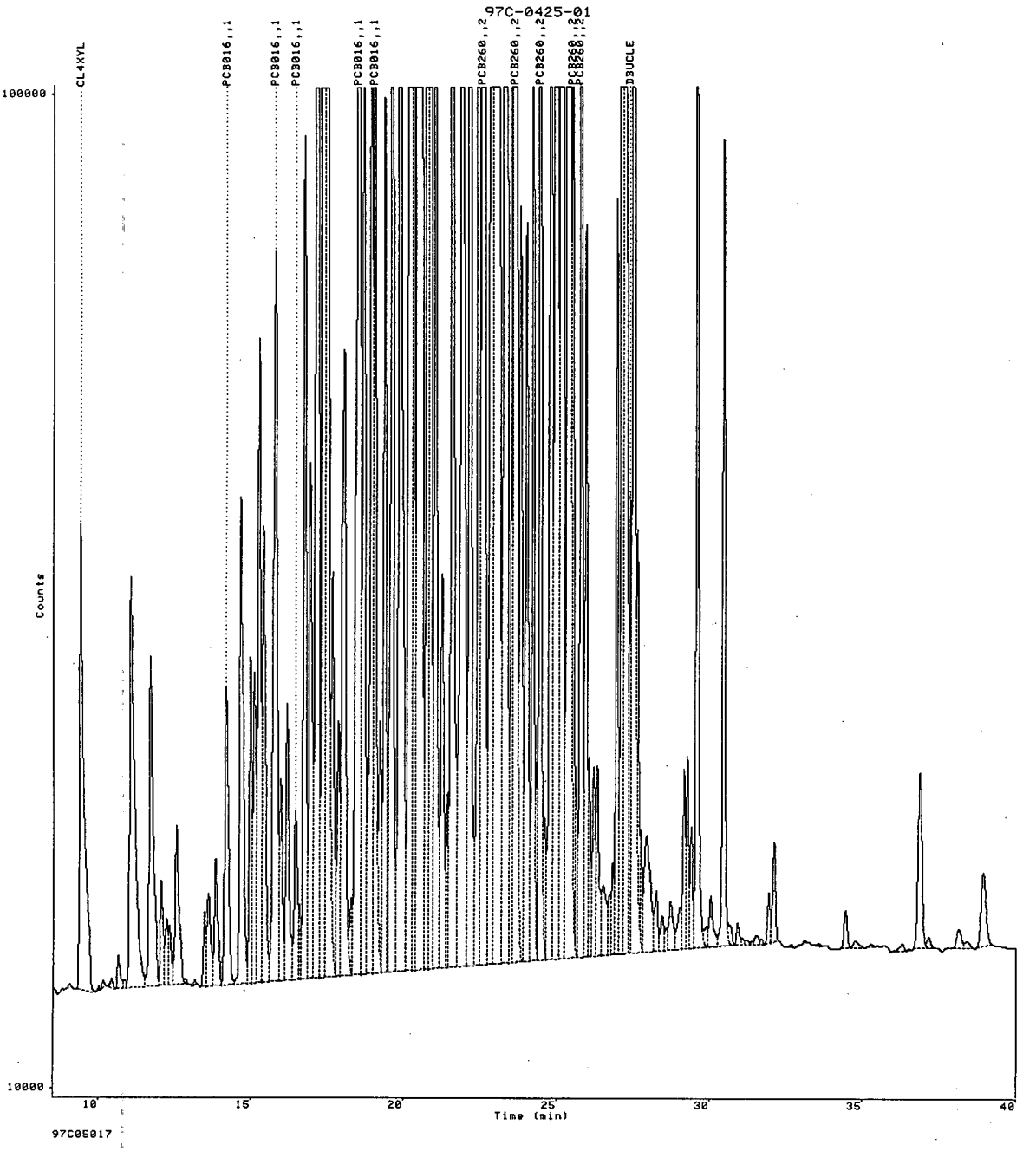
GROUP REPORT

Group	UG/SAMPLE
1	475.2
2	453.2

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316035.RAW;1
Report: 1197249624
Acquired: 14-NOV-1997 06:13:18
Time range: 8.50-40.00



Date.....15-NOV-1997 16:17:48.63 User: TAYLORC
Report number.....1197249625
Raw file.....DISK:[TAYLORC]8397316036.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 06:57:15
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05017MS
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
length.....30 M
diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....125
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.403	-1.70	15.90	39450			BB	
	10.018			240			BV	
	10.153			1142			VV	
	10.425			915			VV	
	10.653			2498			VV	
	10.889			824			VV	
	11.068			53186			VV	
	11.704			26605			VV	
	12.074			12766			VV	
	12.258			7802			VV	
	12.340			14001			VV	
	12.564			16461			VE	
	12.848			287			EB	
	13.174			729			BV	
	13.305			748			VV	

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	13.500				7269	VV	
	13.618				8058	VV	
	13.859				11603	VB	
PCB016	14.195	-0.69	65.04		40939	BV	1
	14.667				40047	VV	
	14.985				26169	VV	
	15.113				33266	VV	
	15.263				61789	VV	
	15.421				44814	VV	
PCB016	15.790	-0.76	87.69		92557	VE	1
	15.975				14157	EV	
	16.185				22407	VV	
PCB016	16.472	-0.65	50.02		28192	VV	1
	16.747				72768	VV	
	16.930				43852	VV	
	17.034				33459	VV	
	17.148				301600	VV	
	17.349				298733	VV	
	17.466				180240	VE	
	17.658				33589	EV	
	17.859				22703	VV	
	18.035				55045	VE	
	18.286				6674	EV	
PCB016	18.512	-0.87			224621	VV	1
	18.681				93365	VV	
	18.927				100693	VV	
PCB016	19.033	-0.81	492.1	+	116023	VE	1
	19.228				26546	EV	
	19.366				88627	VV	
	19.493				22307	VV	
	19.597				213848	VV	
	19.855				233512	VV	
	20.180				752494	VE	
	20.293				123230	EV	
	20.447				498573	VV	
	20.751				341593	VV	
	20.851				239745	VV	
	21.013				134932	VV	
	21.248				39622	VV	
	21.435				18166	VV	
	21.565				222448	VV	
	21.876				227114	VV	
	22.136				377459	VV	
	22.415				180900	VV	
PCB260	22.576	-2.84			968852	VV	2
	22.838				153059	VV	
	22.949				105910	VV	
	23.056				783719	VV	
	23.283				362306	VV	
	23.538				112403	VV	
PCB260	23.629	-1.35			630702	VE	2
	23.794				68072	EV	
	23.992				74594	VV	
	24.208				99553	VE	
	24.330				18570	EV	
PCB260	24.440	-1.20	315.1	+	195816	VE	2
	24.580				12486	EV	
	24.781				318568	VV	
	24.977				276064	VV	
	25.163				330494	VV	

	25.380				685094	VE	
PCB260	25.507	-0.99	73.00		98182	EV	2
	25.622				16399	EV	
PCB260	25.783	-1.60	157.5	+	106019	VV	2
	25.941				72652	VV	
	26.053				20378	VV	
	26.206				14554	VV	
	26.324				22160	VV	
	26.523				7298	VV	
	26.740				6275	VV	
	26.833				10856	VV	
	26.953				87432	VV	
	27.110				229362	VV	
	27.215				156991	VE	
DBUCLE	27.390	-0.45	8.444		31873	EV	
	27.491				209310	VE	
	27.630				26412	EV	
	27.746				11092	EV	
	27.891				10295	VV	
	27.933				10217	VV	
	28.261				4292	VV	
	28.456				2801	VV	
	28.726				5526	VV	
	29.164				24377	VV	
	29.273				20708	VV	
	29.401				15374	VV	
	29.580				107797	VE	
	29.905				1091	EV	
	30.038				4279	EB	
	30.451				65367	BB	
	30.923				2755	BB	
	31.208				126	BB	
	31.389				116	BV	
	31.575				760	VB	
	31.942				7020	BV	
	32.110				13880	VB	
	32.677				282	BB	
	32.922				135	BB	
	33.113				190	BB	
	33.596				196	BB	
	34.445				6110	BE	
	34.765				589	EB	
	35.276				287	BB	
	36.289				426	BB	
	36.862				14685	BE	
	37.150				1051	EB	
	37.765				166	BB	
	38.139				2027	BV	
	38.405				839	VB	
	38.932				7464	BB	

GROUP REPORT

Group	UG/SAMPLE
1	694.9
2	545.6

ANALYSIS NOTES

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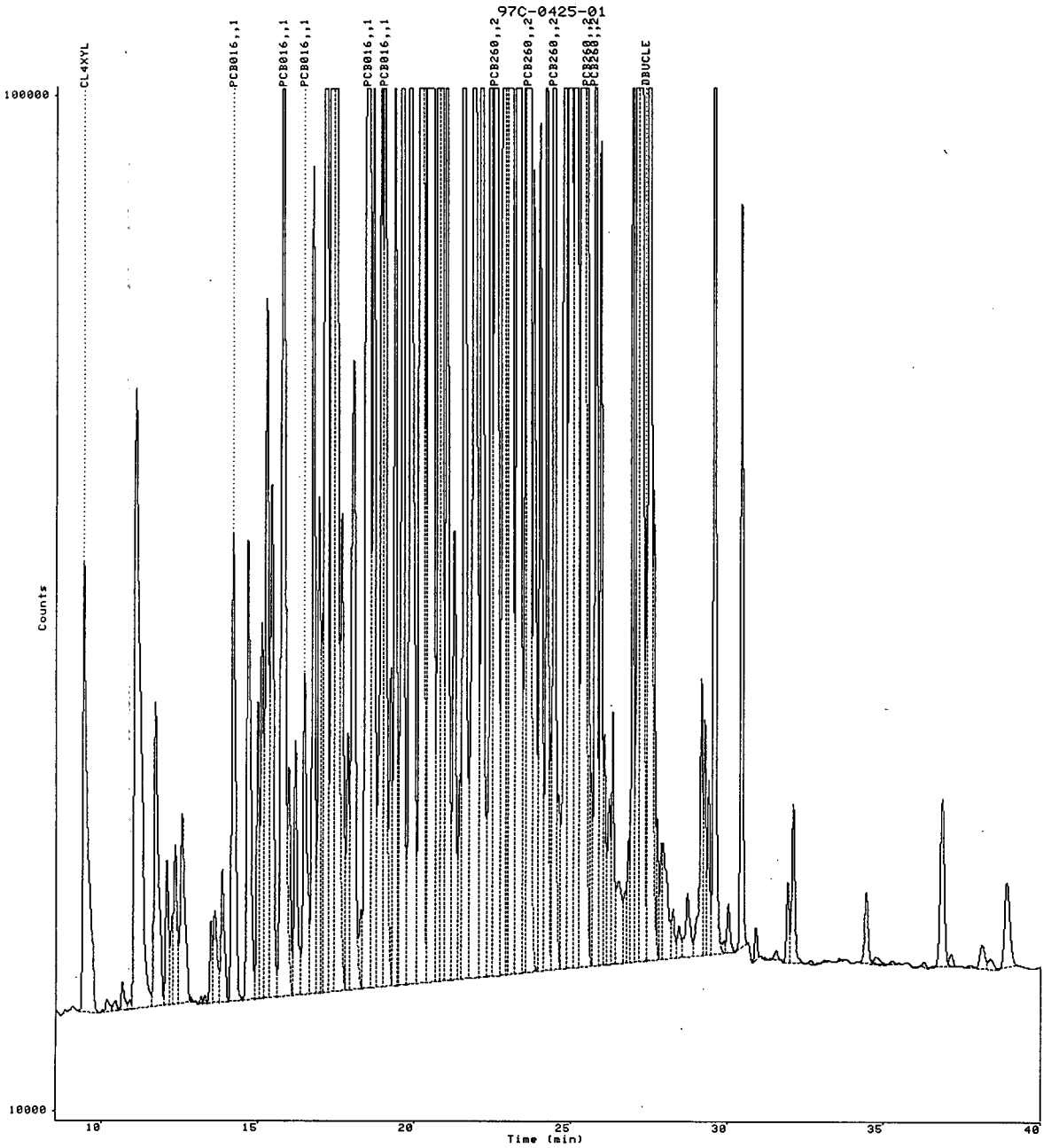
---------------------------------------------------------------------------
  1: WARNING: Peak windows overlap. Check peak identification. (245)
  2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)
---------------------------------------------------------------------------
```

Data file: DISK:[TAYLORC]8397316036.RAW;1
Report: 1197249625
Acquired: 14-NOV-1997 06:57:15
Time range: 8.50-40.00



97C05017MS

0405

Date.....15-NOV-1997 16:17:53.53 User: TAYLORC
Report number.....1197249626
Raw file.....DISK:[TAYLORC]8397316037.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 07:41:21
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05017MSD
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....127
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.406	-1.86	15.44	38331		BB	
	10.020			261		BV	
	10.153			1151		VV	
	10.431			898		VB	
	10.656			2443		BV	
	10.888			957		VV	
	11.079			65771		VV	
	11.705			33459		VV	
	12.076			14299		VV	
	12.328			18482		VV	
	12.567			17047		VE	
	12.870			567		EB	
	13.179			1070		BV	
	13.315			4036		VV	
	13.502			10767		VV	

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	13.620				10714	VV	
	13.861				12725	VB	
PCB016	14.198	-0.89	66.13		41520	BB	1
	14.670				42886	BV	
	14.988				24122	VV	
	15.117				34568	VV	
	15.266				61153	VV	
	15.423				44572	VV	
PCB016	15.793	-0.94	85.83		90868	VE	1
	15.977				15698	EV	
	16.188				22383	VV	
PCB016	16.475	-0.85	46.21		26221	VV	1
	16.750				65769	VV	
	16.936				40383	VV	
	17.035				31186	VV	
	17.151				269971	VV	
	17.354				268891	VV	
	17.469				178887	VE	
	17.658				29181	EV	
	17.858				21294	VV	
	18.039				52359	VE	
	18.296				5667	EV	
PCB016	18.513	-0.95			202426	VV	1
	18.685				91133	VV	
	18.931				101062	VV	
PCB016	19.035	-0.92	455.4	+	112905	VE	1
	19.230				25615	EV	
	19.371				89594	VV	
	19.495				19963	VV	
	19.601				197426	VV	
	19.859				231004	VV	
	20.183				708645	VV	
	20.296				181450	VV	
	20.449				487563	VV	
	20.753				324238	VV	
	20.853				237312	VV	
	21.016				132250	VV	
	21.250				38992	VV	
	21.440				17928	VV	
	21.567				203422	VV	
	21.880				220779	VV	
	22.138				365128	VV	
	22.418				179545	VV	
PCB260	22.579	-3.02			942626	VE	2
	22.841				144437	EV	
	22.947				100664	VV	
	23.060				761123	VV	
	23.284				351688	VV	
	23.541				109063	VV	
PCB260	23.632	-1.51			607236	VE	2
	23.797				67480	EV	
	23.993				71778	VV	
	24.213				95093	VE	
	24.335				18313	EV	
PCB260	24.443	-1.35	294.6	+	185806	VE	2
	24.581				10804	EV	
	24.784				306534	VV	
	24.980				263463	VV	
	25.165				304958	VV	
	25.383				644526	VE	

PCB260	25.510	-1.22	69.61		94083	EV	2
	25.622				14728	EV	
PCB260	25.786	-1.78	140.2	+	96000	VV	2
	25.944				65530	VE	
	26.053				10404	EV	
	26.200				14663	EV	
	26.326				18307	VE	
	26.515				3649	EV	
	26.748				2302	VV	
	26.835				6465	VV	
	26.956				77605	VV	
	27.112				208152	VV	
	27.219				139846	VE	
DBUCLE	27.393	-0.66	7.254		27377	EV	
	27.493				186635	VE	
	27.632				21985	EV	
	27.751				4946	EB	
	27.898				1315	BB	
	28.030				1251	BB	
	28.260				1669	BB	
	28.458				1326	BV	
	28.595				884	VV	
	28.728				3892	VB	
	29.054				2496	BV	
	29.167				21006	VV	
	29.275				17572	VV	
	29.404				13251	VV	
	29.583				97343	VB	
	29.903				276	BV	
	30.041				3332	VB	
	30.455				65088	BE	
	30.674				1514	EB	
	30.926				2492	BB	
	31.208				244	BB	
	31.563				945	BB	
	31.945				6272	BV	
	32.113				12251	VB	
	32.686				177	BB	
	33.124				388	BB	
	33.592				225	BB	
	34.449				4978	BB	
	34.768				357	BB	
	35.278				326	BB	
	35.769				311	BB	
	36.290				482	BB	
	36.536				162	BV	
	36.863				13552	VE	
	37.151				1277	EB	
	37.702				189	BB	
	38.141				1877	BV	
	38.404				738	VB	
	38.936				6632	BB	

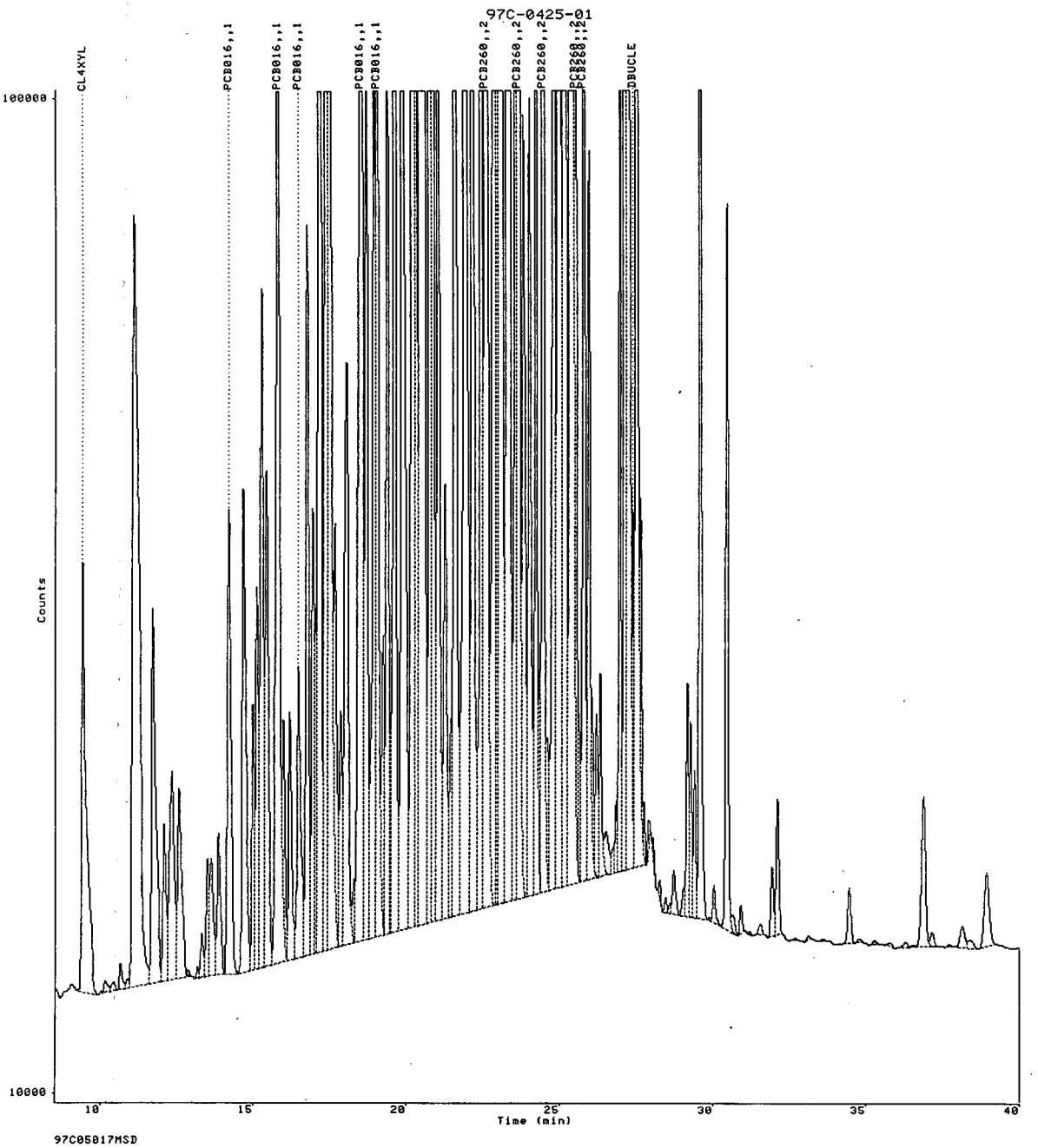
GROUP REPORT

Group	UG/SAMPLE
1	653.6
2	504.4

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316037.RAW;1
Report: 1197249626
Acquired: 14-NOV-1997 07:41:21
Time range: 8.50-40.00



0410

Date.....15-NOV-1997 16:17:58.36 User: TAYLORC
Report number.....1197249627
Raw file.....DISK:[TAYLORC]8397316038.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....14-NOV-1997 08:25:23
Acq. run time.....40.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05019
Notes.....97C-0425-01

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....40.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....115
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.417	-2.53	12.64	31584		BB	
	10.163			968		BB	
	11.072			40541		BV	
	11.721			28944		VE	
	12.091			3317		EV	
	12.271			9927		VV	
	12.583			26767		VE	
	12.862			805		EB	
	13.321			57		BB	
	13.486			983		BV	
	13.683			430		VB	
	13.865			274		BB	
PCB016	14.213	-1.78	4.282	3634		BV	
	14.791			28293		VV	
	15.004			20030		VV	

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	15.281				42137	VV	
	15.426				18318	VV	
PCB016	15.808	-1.84	8.026		10517	VV	1
	15.991				29654	VV	
	16.200				8189	VV	
PCB016	16.489	-1.69	29.88		17515	VV	1
	16.764				23181	VV	
	16.952				11707	VV	
	17.167				390480	VV	
	17.368				223243	VV	
	17.487				95000	VV	
	17.691				26582	VV	
	17.872				11696	VV	
	18.041				27725	VE	
	18.293				3539	EV	
PCB016	18.527	-1.79			222520	VV	1
	18.699				69271	VV	
	18.839				19338	VV	
	18.943				41793	VV	
PCB016	19.050	-1.82	287.6	+	87325	VE	1
	19.239				9793	EV	
	19.385				55991	VV	
	19.614				314655	VV	
	19.872				194814	VE	
	19.982				20913	EV	
	20.196				970778	VV	
	20.463				960773	VV	
	20.767				600635	VE	
	21.026				102656	EV	
	21.264				23872	EV	
	21.460				28736	VV	
	21.574				374366	VV	
	21.886				414742	VV	
	22.149				759153	VV	
	22.427				364060	VV	
PCB260	22.589	-3.61			976225	VV	2
	22.854				217969	VV	
	22.947				137986	VV	
	23.071				984766	VV	
	23.295				596724	VV	
	23.547				212698	VV	
PCB260	23.643	-2.14			976072	VE	2
	23.859				42906	EV	
	24.000				112190	VV	
	24.221				68683	VV	
PCB260	24.452	-1.92			328307	VE	2
	24.591				16448	EV	
	24.791				466419	VV	
	24.985				475120	VV	
	25.174				481307	VV	
	25.389				984914	VE	
PCB260	25.515	-1.48	81.62		108395	EV	2
	25.634				22378	EV	
PCB260	25.797	-2.49	238.7	+	147887	VV	2
	25.950				129861	VE	
	26.061				17911	E	
	26.228				13909	VV	
	26.335				22739	VV	
	26.561				9609	VV	
	26.714				8269	VV	

	26.845			10523	VV
	26.960			103555	VV
	27.117			404989	VV
	27.224			239765	VE
DBUCLE	27.395	-0.79	7.607	28710	EV
	27.501			245683	VV
	27.640			66704	VV
	27.765			18428	VV
	27.895			15611	VV
	27.938			15245	VV
	28.271			6408	VV
	28.466			3514	VV
	28.737			4532	VV
	29.054			4792	VV
	29.173			15210	VV
	29.284			26372	VV
	29.409			10963	VV
	29.588			136000	VE
	29.821			2088	EV
	29.912			2457	EV
	30.043			6497	EV
	30.320			1156	VV
	30.459			2906	VV
	30.925			1326	VB
	31.239			188	BV
	31.387			217	VV
	31.588			573	VB
	31.950			4486	BV
	32.118			8945	VB
	32.668			506	BB
	33.276			163	BB
	33.607			197	BB
	34.183			137	BV
	34.452			3129	VB
	34.807			94	BB
	36.525			62	BB
	36.870			11274	BB
	38.148			1850	BV
	38.414			782	VB
	38.942			6282	BB

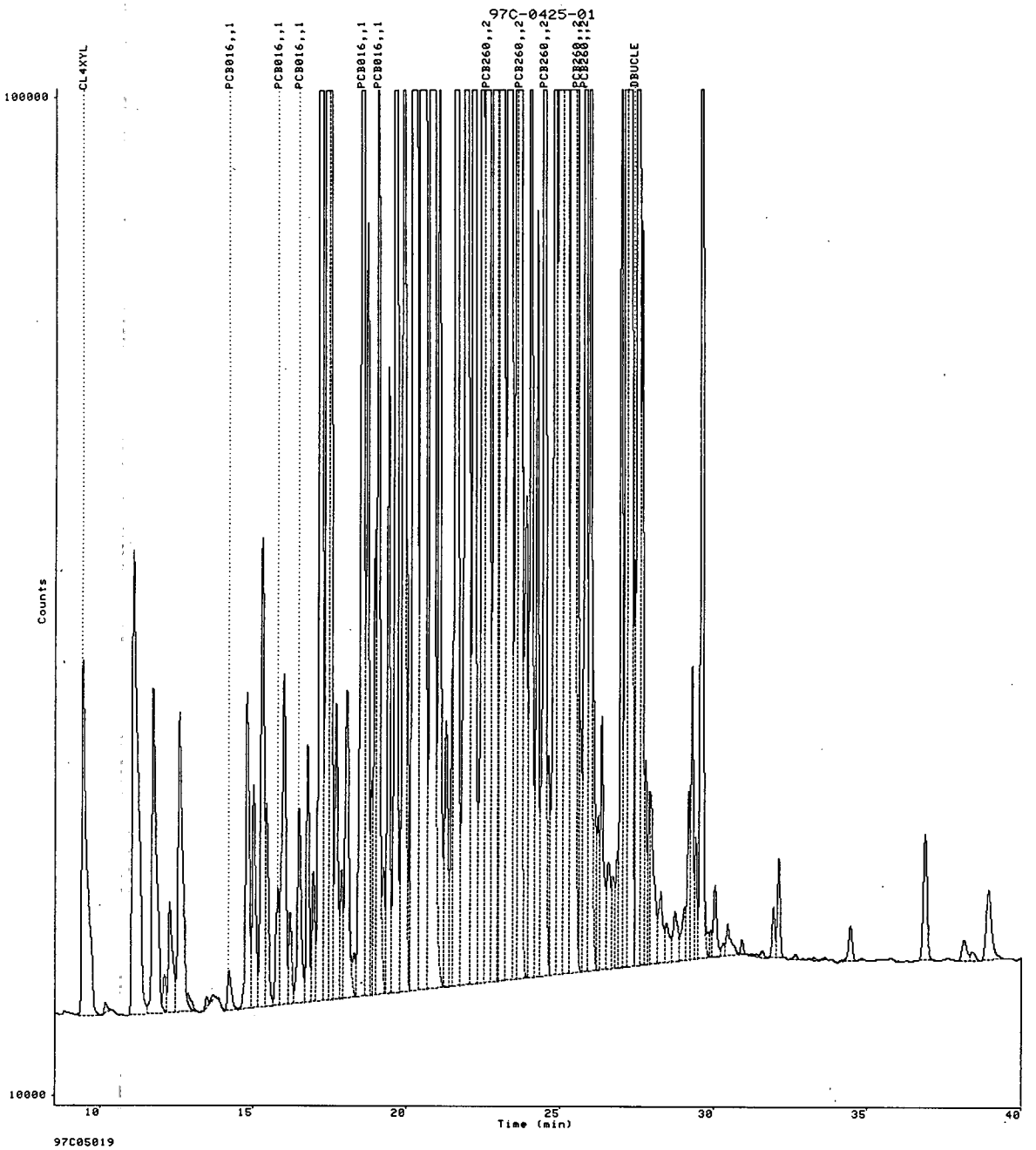
GROUP REPORT

Group	UG/SAMPLE
1	329.8
2	320.3

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316038.RAW;1
Report: 1197249627
Acquired: 14-NOV-1997 08:25:23
Time range: 8.50-40.00



Date.....18-NOV-1997 15:04:40.00 User: TAYLORC
Report number.....1197251298
Raw file.....DISK:[TAYLORC]8397316040.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P.MET;21
Last method update..15-NOV-1997 16:15:09.92

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....1

Acq. date.....15-NOV-1997 16:24:00
Acq. run time.....38.02 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PRIME
Notes.....

Author.....G.LIU
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....38.016 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....86
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

==========
EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.406	-1.83	0.5723 +	412698			BB	
	10.906			1995			BV	
	11.040			5418			VV	
	11.144			7700			VV	
	11.392			10088			VB	
	12.061			12942			BV	
	12.345			50853			VE	
	12.607			2075			EV	
	13.044			175			VB	
	13.858			9252			BV	
PCB016	14.188	-0.32		92577			VV	
	14.655			10371			VV	
	15.112			39040			VV	
	15.259			25895			VV	
	15.453			54211			VV	

PCB016	15.781	-0.26	0.5685	+	168072	VV	1
PCB016	16.468	-0.44	0.5707	+	84737	VE	1
	16.740				12241	EV	
	16.922				6795	EV	
	17.032				73576	VV	
	17.142				67325	VV	
	17.343				55287	VV	
	17.483				34274	VV	
	17.620				28879	VE	
	17.914				2011	EV	
	18.049				9580	VE	
	18.263				815	EV	
PCB016	18.503	-0.38	0.5932	+	81259	VV	1
	18.677				36638	VE	
	18.805				4089	EV	
	18.921				33478	VV	
PCB016	19.025	-0.31	0.5130	+	58619	VV	1
	19.235				28790	VV	
	19.366				22866	VV	
	19.588				35014	VV	
	19.848				45963	VV	
	20.173				74523	VV	
	20.432				72349	VV	
	20.739				7134	VV	
	21.003				7390	VB	
	21.398				403	BV	
	21.551				10023	VV	
	21.863				6315	VV	
	22.123				20673	VB	
	22.404				2896	BV	
PCB260	22.540	-0.66	0.4840	+	113947	VV	2
	22.775				27348	VV	
	22.851				35835	VV	
	22.921				34312	VV	
	23.046				28443	VV	
	23.270				155645	VV	
PCB260	23.616	-0.53	0.4337	+	232101	VE	2
	23.975				13217	EV	
	24.202				2767	EB	
PCB260	24.428	-0.51	0.4323	+	100841	BB	2
	24.774				4703	BV	
	24.976				116614	VV	
	25.154				102872	VV	
	25.365				166796	VV	
PCB260	25.495	-0.33	0.4213	+	170590	VV	2
PCB260	25.755	0.04	0.4218	+	96234	VE	2
	25.931				4426	EB	
	26.192				714	BV	
	26.313				31195	VB	
	26.820				13858	BV	
	26.942				124001	VV	
	27.105				46932	VV	
	27.276				84336	VV	
DBUCLE	27.378	0.21	0.4433	+	494816	VV	
	27.478				313121	VE	
	27.742				7920	EV	
	27.860				5423	EB	
	28.430				87	BB	
	28.718				10250	BB	
	29.149				61780	BV	

29.259	25778	VV
29.386	37652	VV
29.567	122200	VE
30.022	3168	EB
30.435	284	BB
30.904	3845	BB
31.568	1518	BB
31.928	19910	BV
32.096	40690	VB
34.430	9555	BB
36.844	1184	BB

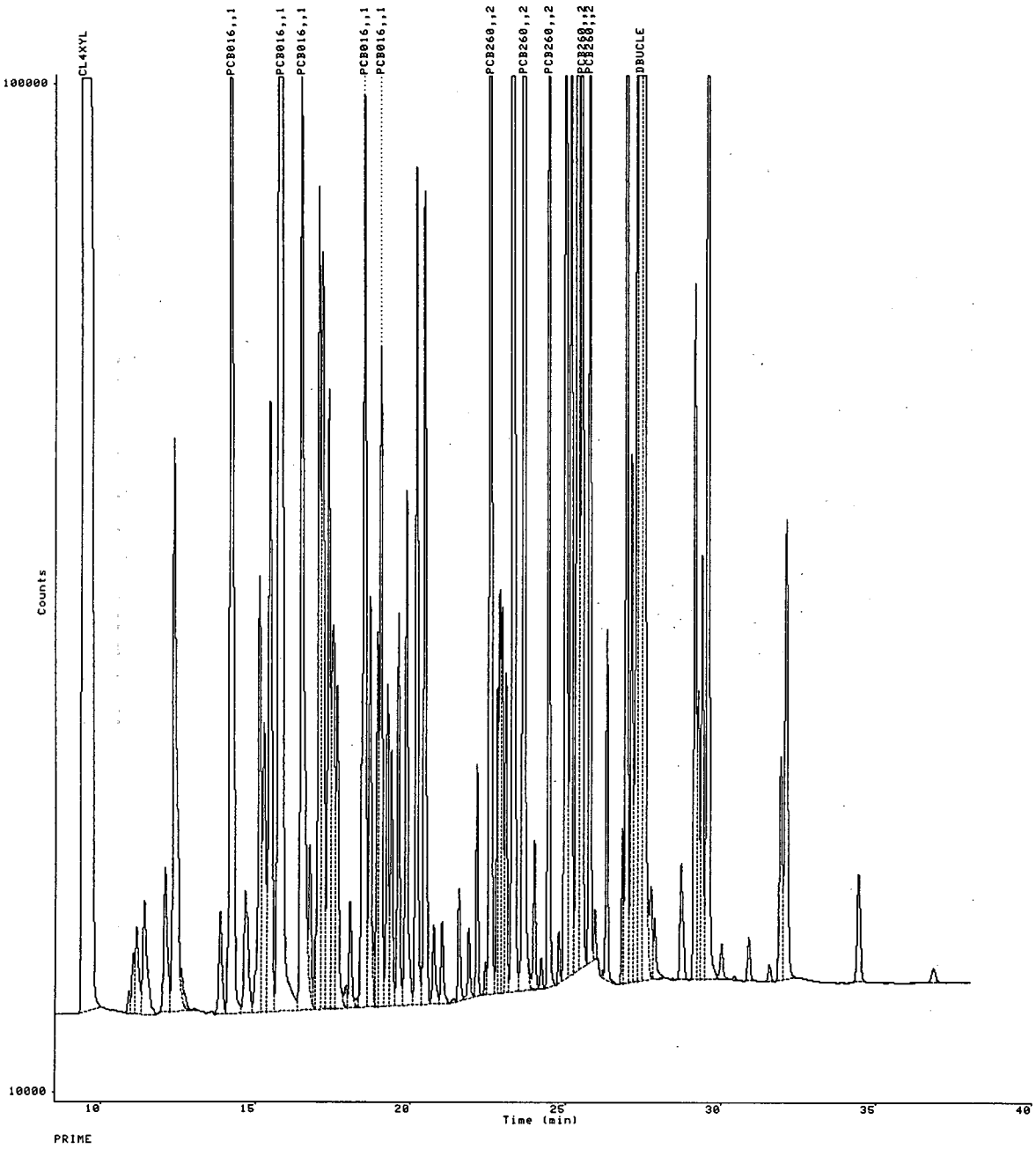
GROUP REPORT

Group	UG/SAMPLE
1	2.245
2	2.193

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316040.RAW;1
Report: 1197251298
Acquired: 15-NOV-1997 16:24:00
Time range: 8.50-40.00



0418

Date.....18-NOV-1997 15:58:41.35 User: TAYLORC
Report number.....1197251536
Raw file.....DISK:[TAYLORC]8397316054.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 01:51:09
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05000 X500
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.502 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....55
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

11/17/97
333.3333

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref Std
14.18	PCB016	1	
15.78	PCB016	1	

dil

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.395	-1.21	-4.062E-05-	76		BB	
	12.243			60		BB	
	12.559			426		BB	
	14.751			393		BB	
	15.229			426		BB	
	15.954			512		BB	
PCB016	16.451	0.62	-5.147E-04-	185		BB	1

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	17.134			1485	BV	
	17.336			841	VV	
	17.476			423	VB	
PCB016	18.497	0.01	-3.749E-05-	326	BV	1
	18.677			460	VB	
PCB016	19.023	-0.18	6.312E-03	1103	BB	1
	19.359			419	BV	
PCB254	19.583	0.55	0.02150	4585	VV	2
	19.840			2582	VV	
	20.164			10540	VV	
PCB254	20.428	0.07	0.04065	14861	VV	2
PCB254	20.733	0.37	0.05860	10316	VE	2
	20.992			1084	EB	
	21.553			1980	BV	
	21.856			5033	VV	
PCB254	22.117	0.44	0.03761	10163	VV	2
	22.398			5928	VV	
PCB260	22.559	-0.05	0.09139	27120	VV	3
	22.828			3074	VV	
	22.926			1971	VV	
	23.040			23872	VV	
	23.267			10912	VV	
PCB260	23.612	-0.32	0.02833	19133	VE	3
	23.834			398	EV	
	23.973			1257	EV	
	24.193			441	VB	
PCB260	24.424	-0.26	0.01646	4172	BB	3
PCB254	24.767	0.21	0.03694	7469	BV	2
	24.962			8042	VV	
	25.149			7130	VV	
	25.365			22518	VE	
PCB260	25.487	0.16	2.809E-03-	1377	EV	3
	25.609			390	EV	
PCB260	25.775	-1.15	8.094E-03	1966	VV	3
	25.925			1703	VV	
	26.036			518	VB	
	26.205			587	BB	
	26.938			1362	BV	
	27.096			6660	VV	
	27.200		1.1076666	3108	VV	
DBUCLE	27.477	-5.68	~~3.323E-03-~~	3029	VE	
	27.613			533	EB	
	27.932			370	BB	
	28.249			159	BB	
	28.450			63	BB	
	29.145			117	BV	
	29.255			262	VB	
	29.562			1735	BB	

GROUP REPORT

Group	UG/SAMPLE
1	5.760E-03
2	0.1953
3	0.1471

x 333.3333 = 65.0999 x 500 = 32549.997

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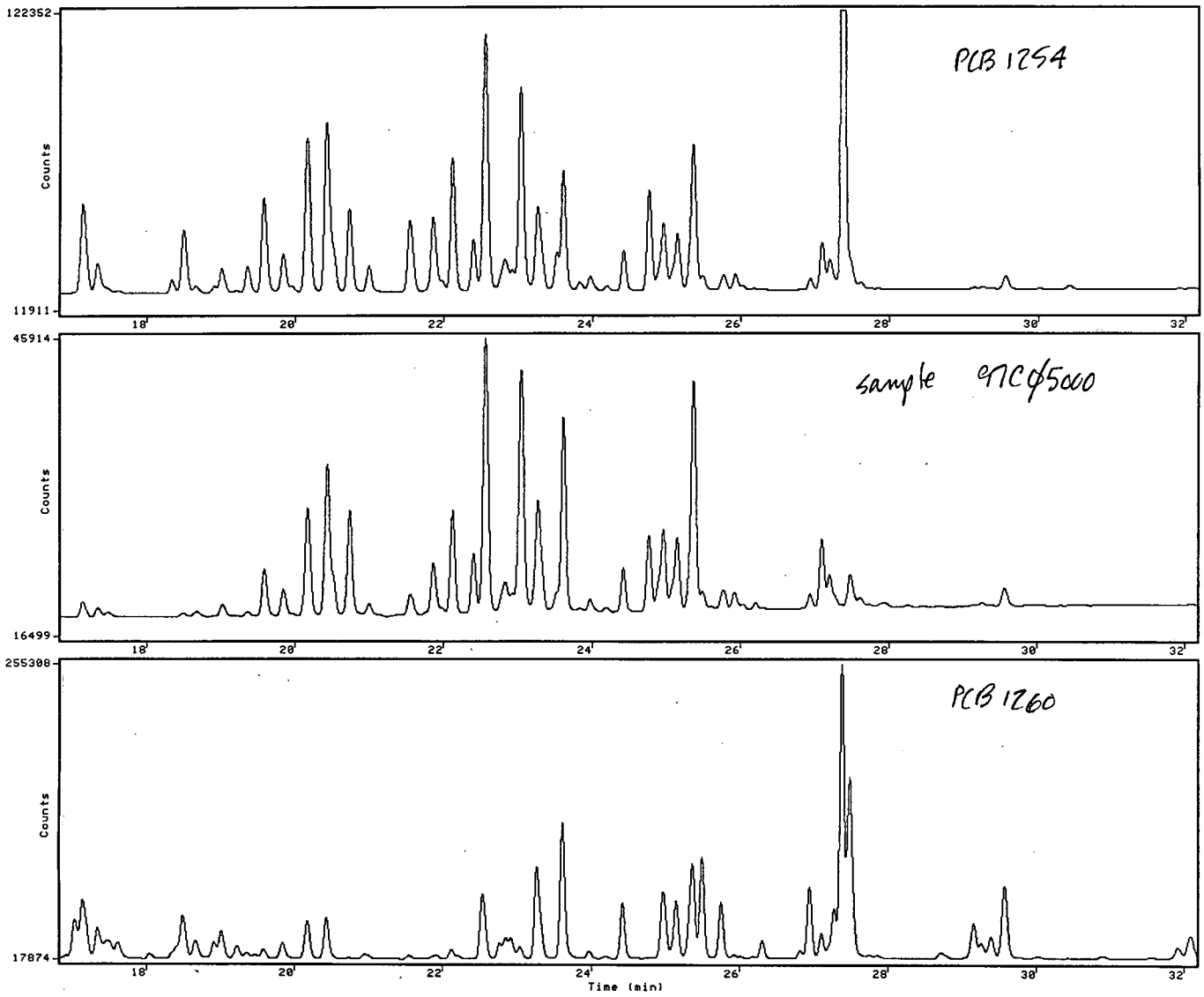
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

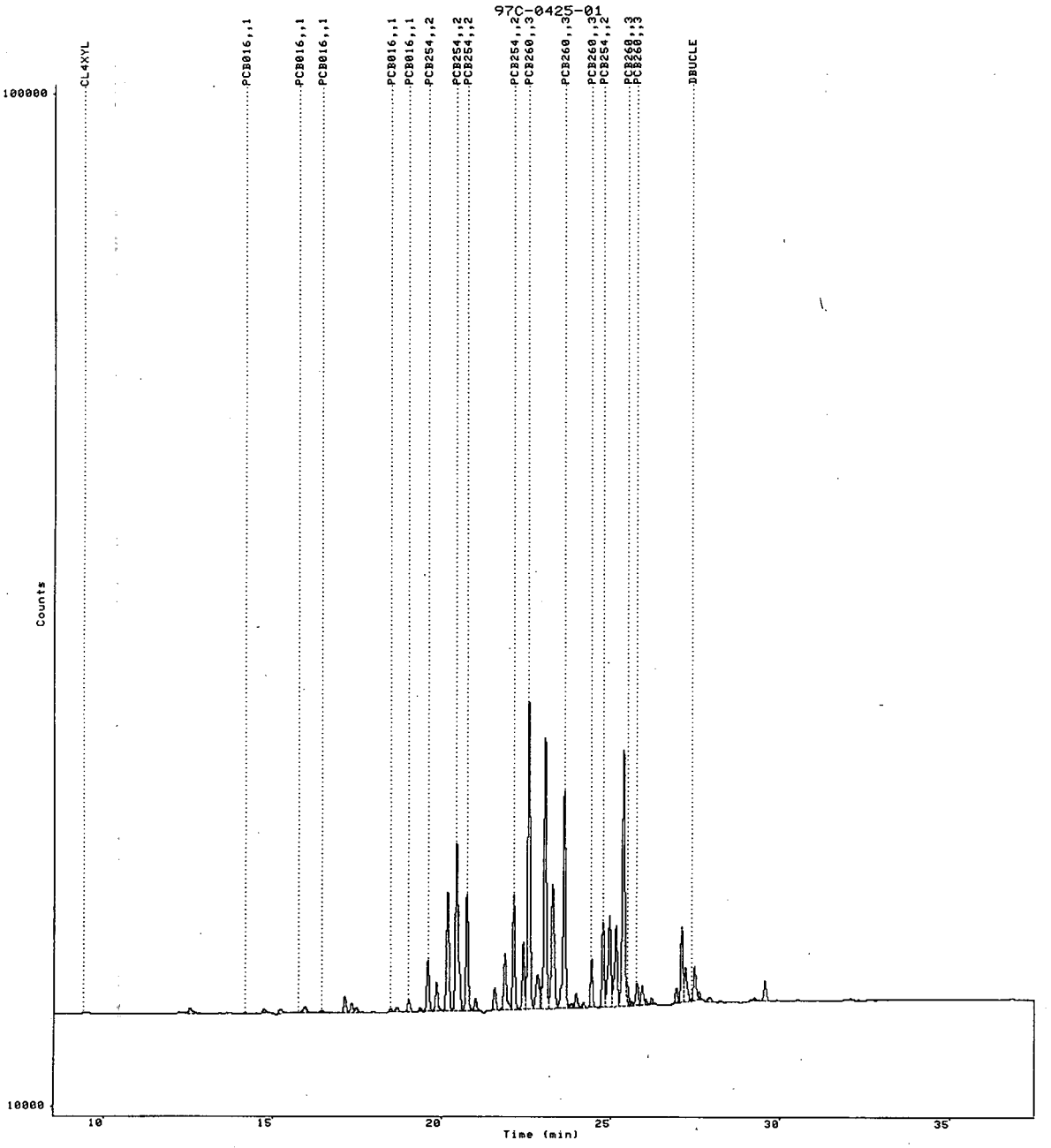
Date: 18-NOV-1997 17:28:54.00

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316054	16.81	32.20	16499	45914	1
8397316053	16.81	32.20	17874	255308	1

PCB 1254 match



Data file: DISK:[TAYLORC]8397316054.RAW;1
Report: 1197251536
Acquired: 16-NOV-1997 01:51:09
Time range: 8.50-37.50



97C05000 X500

0423

Date.....18-NOV-1997 15:58:45.69 User: TAYLORC
Report number.....1197251537
Raw file.....DISK:[TAYLORC]8397316055.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 02:31:26
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05001 X10
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
length.....30 M
diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 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.....9.200 min
No. peaks found.....107
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....0
Sample vial.....165
Analysis fit.....Quadratic
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000

A/D range.....1.0 volt(s)

Origin treatment....Ignore

Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.397	-1.31	~~5.418E-03~~ 1.8059998 11/18/97	5049			BB	
	9.916			81			BV	
	10.021			116			VB	
	10.394			342			BB	
	10.603			393			BB	
	11.053			553			BB	
	11.388			1184			BV	
	11.558			963			VV	
	11.690			3196			VB	
	12.071			7807			BB	
	12.735			192			BB	
	12.847			184			BB	
	13.009			475			BV	
	13.125			458			VB	
	13.284			117			BB	

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	13.513			904	BB	
	13.851			279	BB	
PCB016	14.191	-0.47	5.637E-04-	613	BV	1
	14.294			617	VB	
	14.808			1146	BV	
	14.942			1382	VB	
	15.269			1268	BV	
	15.434			1304	VV	
PCB016	15.791	-0.85	5.564E-04-	982	VB	1
	16.186			363	BB	
PCB016	16.484	-1.38	1.922E-03-	732	BV	1
	16.905			1226	VB	
	17.140			3125	BB	
	17.346			2493	BV	
	17.459			2345	VV	
	17.635			1477	VV	
	17.772			1324	VB	
	17.953			837	BV	
	18.135			1836	VV	
	18.273			1469	VV	
PCB016	18.499	-0.10	0.01114	2730	VV	1
	18.680			1644	VV	
	18.866			1702	VV	
PCB016	19.021	-0.04	0.01915	2771	VV	1
	19.231			1082	VV	
	19.366			1719	VV	
	19.469			2401	VV	
PCB254	19.578	0.85	0.02000	4292	VB	2
	19.851			2524	BV	
	20.166			16961	VV	
	20.277			12844	VV	
PCB254	20.430	-0.06	0.02908	10969	VV	2
	20.538			5613	VV	
PCB254	20.737	0.12	0.03743	6832	VV	2
	20.835			8952	VV	
	20.999			1651	VB	
	21.242			8184	BV	
	21.551			3481	VV	
	21.742			893	VV	
	21.896			6609	VV	
PCB254	22.119	0.30	0.02441	6731	VV	2
	22.397			4609	VV	
PCB260	22.561	-0.15	0.08016	24051	VB	3
	22.845			3826	BV	
	22.931			3111	VV	
	23.041			14961	VV	
	23.269			11806	VV	
PCB260	23.615	-0.49	0.03018	20295	VE	3
	23.773			4569	EV	
	24.043			2760	VV	
	24.198			5154	VV	
	24.331			1698	VV	
PCB260	24.427	-0.40	0.02002	5062	VE	3
	24.612			1025	EV	
PCB254	24.771	-0.05	0.03343	6792	VV	2
	24.967			8687	VV	
	25.152			8841	VV	
	25.373			27210	VE	
PCB260	25.492	-0.12	7.327E-03	3567	EV	3
	25.613			433	EV	

PCB260	25.766	-0.62	0.01197	2943	VV	3
	25.931			2006	VV	
	26.049			1516	VV	
	26.212			1083	VV	
	26.304			710	VB	
	26.705			164	BV	
	26.818			407	VV	
	26.940			3005	VV	
	27.099			7193	VV	
	27.205			3102	VV	
	27.268			2934	VV	
DBUCLE	27.372	0.57	~~5.391E-03~~ 1.797	5855	VV	
	27.479			7244	VE	
	27.757			564	EV	
	28.029			2476	VB	
	28.258			740	BB	
	28.486			81	BB	
	28.699			170	BB	
	28.910			379	BB	
	29.149			1371	BV	
	29.257			817	VV	
	29.388			1048	VV	
	29.564			2637	VB	
	29.880			364	BV	
	30.091			366	VB	
	30.436			190	BB	
	31.629			124	BB	
	31.922			463	BB	
	32.104			448	BB	
	33.112			111	BB	
	34.429			351	BB	
	36.844			2852	BB	

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GROUP REPORT

Group	UG/SAMPLE
1	3.334E-02
2	0.1443
3	0.1497

$48.10 \times 10^{-} \quad 481$

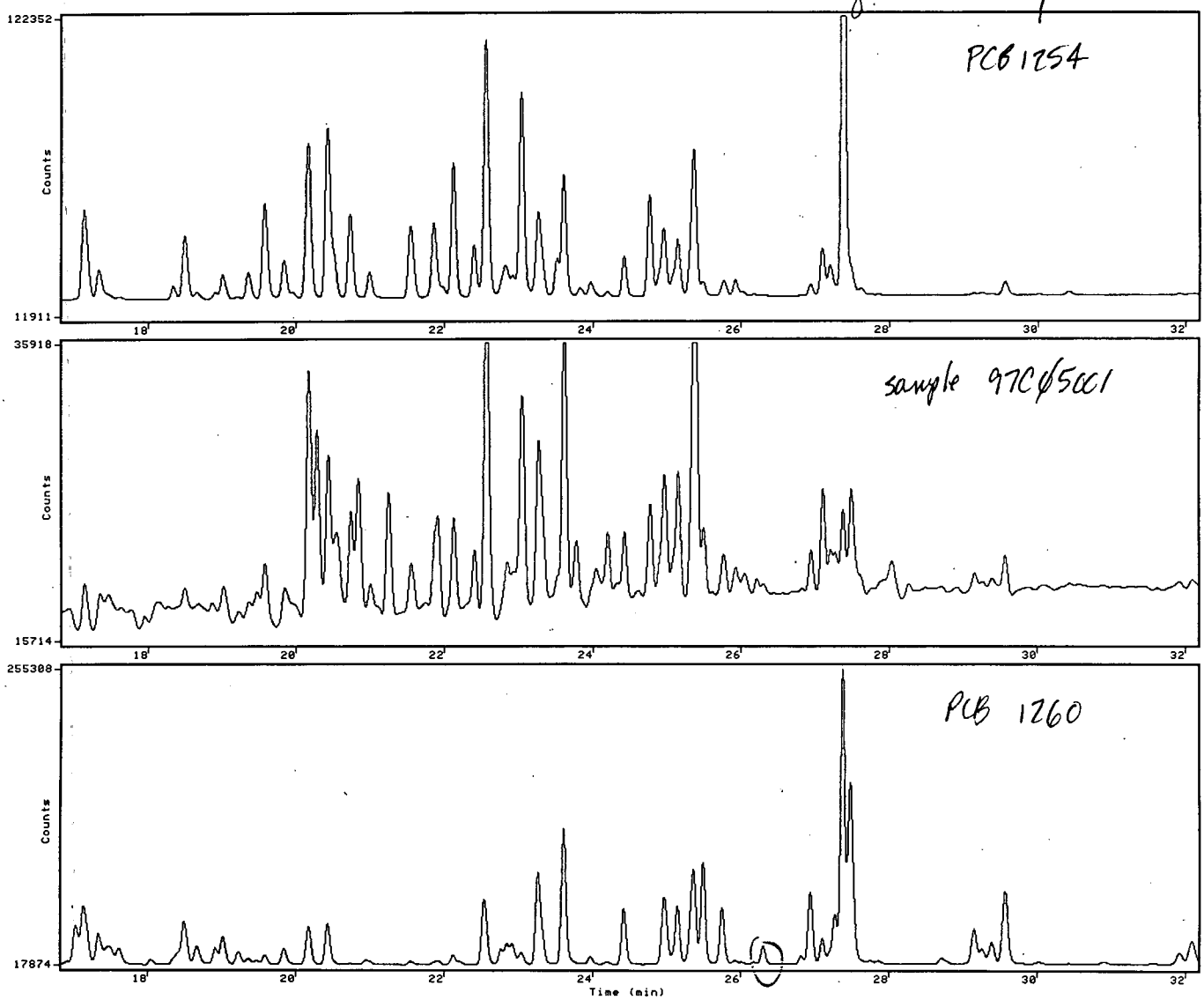
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 17:37:46.14

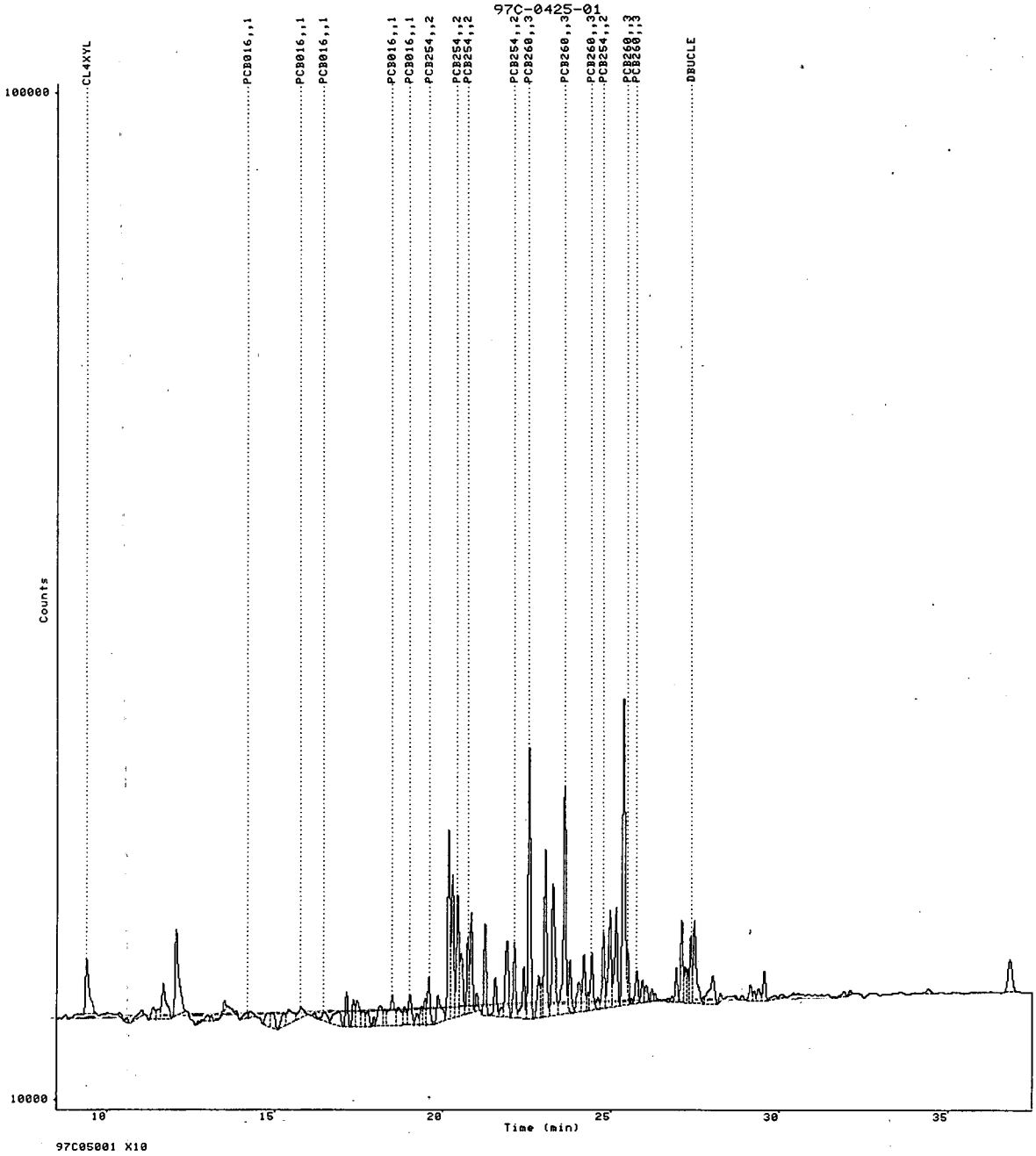
Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316055	16.81	32.20	15714	35918	1
8397316053	16.81	32.20	17874	255308	1

both PCB 1254 & 1260 present; quantitated 1254 since peaks higher intensity



0427

Data file: DISK:[TAYLORC]8397316055.RAW;1
Report: 1197251537
Acquired: 16-NOV-1997 02:31:26
Time range: 8.50-37.50



0428

Date.....18-NOV-1997 15:58:59.93 User: TAYLORC
Report number.....1197251540
Raw file.....DISK:[TAYLORC]8397316056.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 03:11:44
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05002 X10
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor..~~1.00000E+00~~ 333.3333 TL 11/18/97

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	9.235			52		BB	
CL4XYL	9.398	-1.39	~~5.591E-03~~ 1.8637 TL 11/18/97	5206		BB	
	10.023			112		BB	
	10.281			113		BV	
	10.396			442		VB	
	10.603			355		BB	
	11.052			2029		BB	
	11.396			735		BB	
	11.688			1096		BB	
	12.071			3183		BB	
	12.738			204		BV	
	12.845			162		VB	
	13.014			328		BV	
	13.126			322		VB	
	13.285			109		BB	

0429

	13.512			920	BB	
PCB016	14.183	0.02	2.464E-04-	532	BV	1
	14.294			745	VV	
	14.499			1242	VB	
	14.792			198	BB	
	14.949			377	BB	
	15.271			1062	BV	
	15.434			1267	VV	
PCB016	15.787	-0.59	-8.889E-04-	344	VB	1
	16.182			149	BB	
PCB016	16.526	-3.88	-8.436E-04-	111	BB	1
	16.924			1540	BV	
	17.137			3469	VB	
	17.340			2658	BV	
	17.452			1998	VE	
	17.630			259	EB	
	17.948			592	BV	
	18.138			1081	VV	
	18.273			990	VV	
PCB016	18.498	-0.05	9.601E-03	2401	VV	1
	18.676			1289	VV	
PCB016	19.019	0.08	0.01386	2085	VV	1
	19.229			788	VV	
	19.365			1245	VV	
	19.467			1271	VV	
PCB254	19.579	0.77	0.01565	3437	VV	2
	19.840			2299	VV	
	19.979			1085	VV	
	20.166			9296	VV	
	20.276			4729	VV	
PCB254	20.428	0.06	0.02144	8367	VV	2
	20.518			3819	VV	
PCB254	20.734	0.32	0.03170	5870	VV	2
	20.831			4045	VV	
	20.996			2266	VV	
	21.235			4189	VV	
	21.549			3140	VV	
	21.730			1323	VV	
	21.900			6604	VV	
PCB254	22.117	0.43	0.01937	5408	VV	2
	22.395			3720	VV	
PCB260	22.561	-0.16	0.05146	15924	VB	3
	22.841			2812	BV	
	23.041			11875	VV	
	23.268			7433	VV	
PCB260	23.615	-0.47	0.01825	12729	VE	3
	23.767			1655	EV	
	24.054			1762	VV	
	24.199			3775	VV	
	24.329			1186	VV	
PCB260	24.425	-0.29	0.01075	2734	VV	3
	24.601			715	VV	
PCB254	24.767	0.17	0.02211	4595	VV	2
	24.967			4997	VV	
	25.151			5003	VB	
	25.374			16633	BE	
PCB260	25.492	-0.12	3.894E-03-	1904	EV	3
	25.613			77	EB	
PCB260	25.765	-0.52	6.375E-03	1531	BB	3
	25.930			1090	BV	

	26.048			1036	VB
	26.210			1175	BB
	26.816			152	BB
	26.939			1419	BB
	27.098			3286	BE
	27.205			755	EB
DBUCLE	27.373	0.55	~~4.539E-03~~ 1.513	4692	BV
	27.477			3350	VB
	27.893			963	BV
	28.027			1507	VB
	28.251			639	BB
	28.695			525	BV
	28.911			392	VB
	29.146			927	BV
	29.256			526	VV
	29.388			717	VV
	29.562			1253	VB
	29.905			271	BV
	30.130			329	VV
	30.435			627	VB
	31.919			281	BB
	32.100			287	BB
	32.705			81	BB
	34.427			260	BB
	36.840			3199	BB

GROUP REPORT

Group	UG/SAMPLE
1	2.197E-02
2	0.1103
3	9.073E-02

X 333.3333 = 36.767 X 10 = 367.67

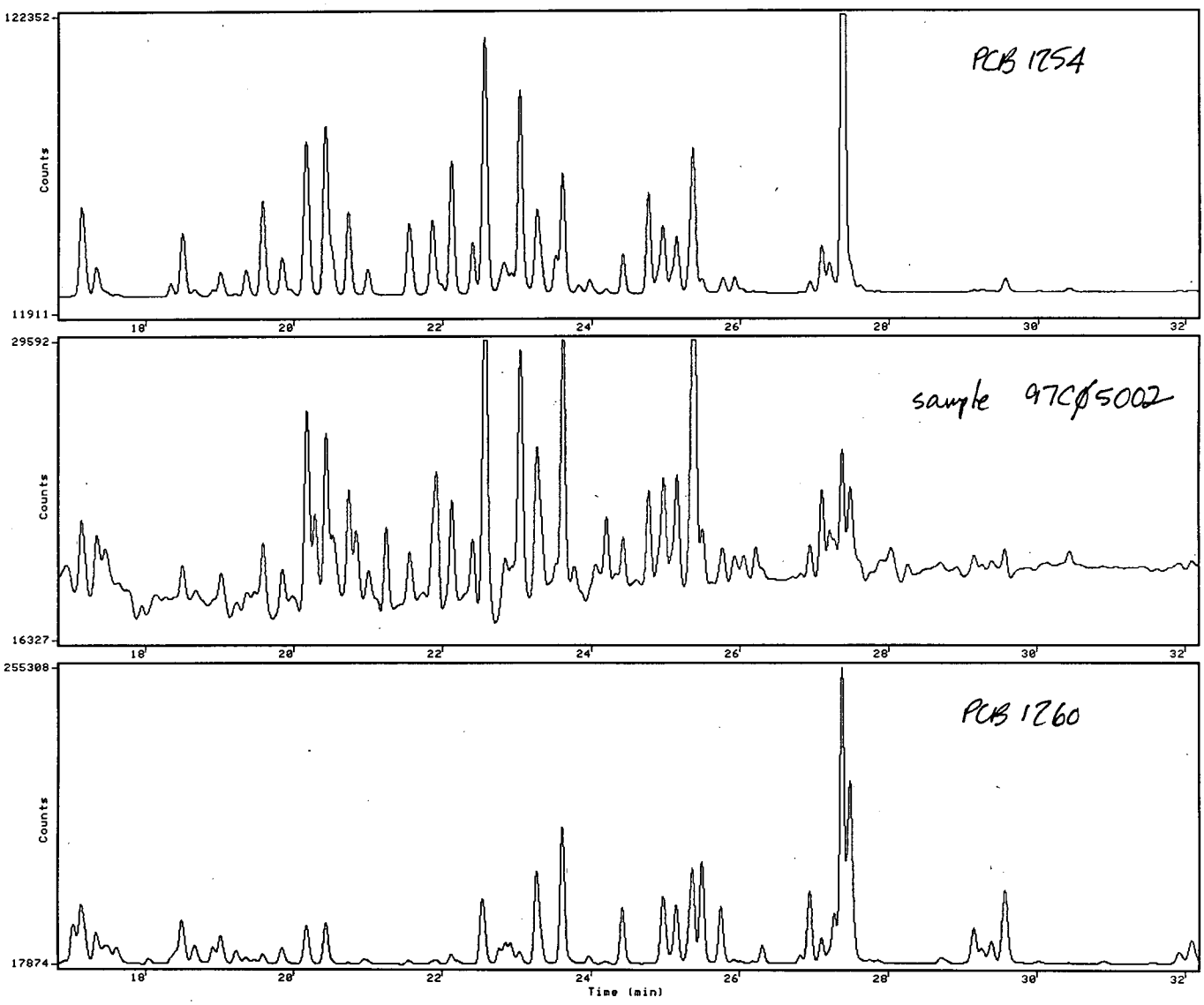
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

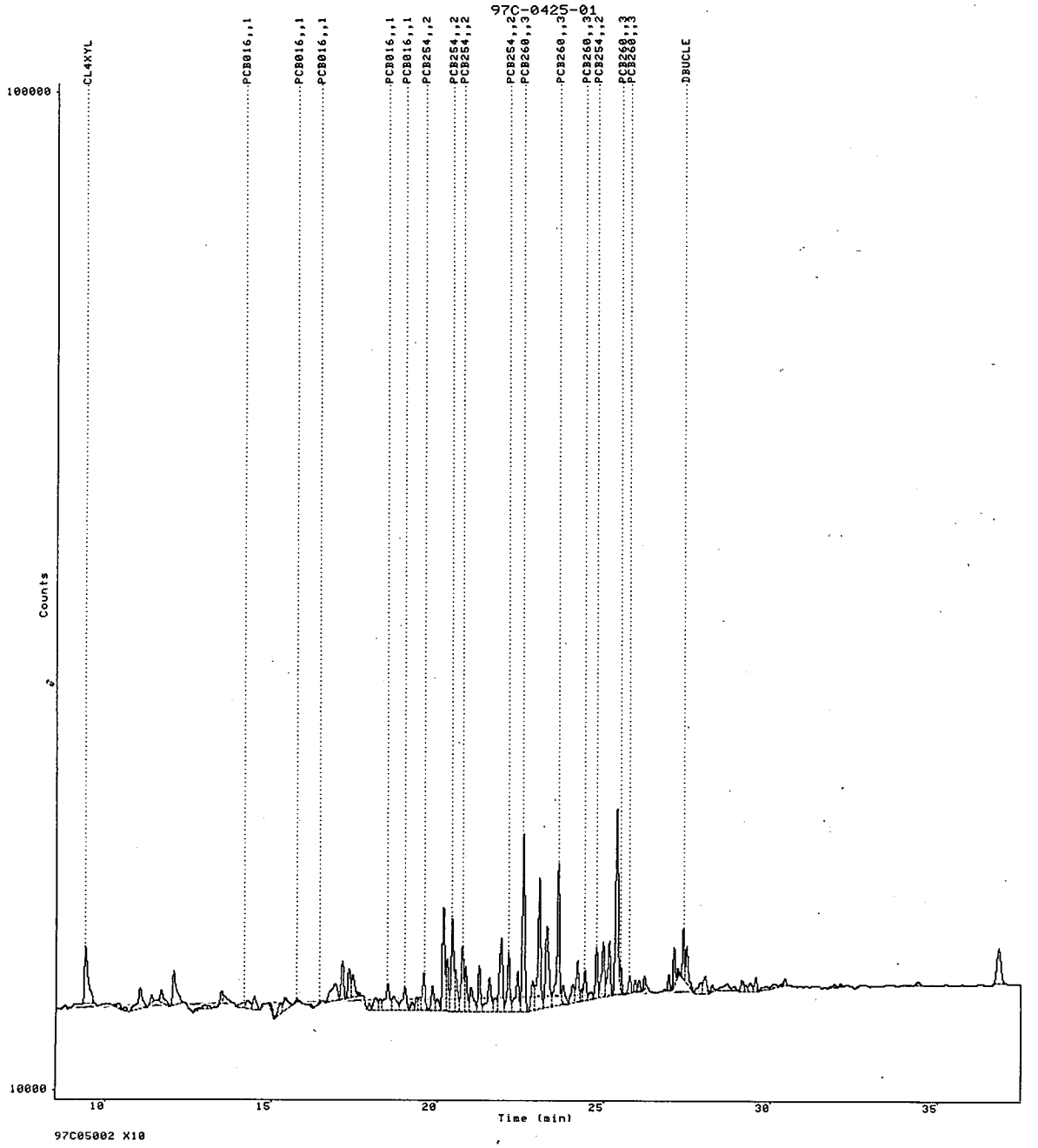
Date: 18-NOV-1997 17:42:59.49

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316056	16.81	32.20	16327	29592	1
8397316053	16.81	32.20	17874	255308	1

better match of PCB-1254



Data file: DISK:[TAYLORC]8397316056.RAW;1
Report: 1197251540
Acquired: 16-NOV-1997 03:11:44
Time range: 8.50-37.50



0433

Date.....18-NOV-1997 15:59:06.78 User: TAYLORC
Report number.....1197251541
Raw file.....DISK:[TAYLORC]8397316057.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 03:51:58
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05004 X10
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.399	-1.43	~~4.731E-03~~ 1.577 11/18/97	4424		BB	
	10.640			158		BB	
	11.057			396		BB	
	11.382			310		BB	
	11.692			2485		BB	
	12.069			749		BB	
	12.558			361		BB	
	13.518			701		BB	
PCB016	14.181	0.13	6.342E-04-	631		BV	1
	14.275			580		VV	
	14.499			877		VV	
	14.745			878		VV	
	14.970			2174		VB	
	15.249			2065		BV	
	15.426			1806		VV	

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PCB016	15.780	-0.19	3.488E-03-	2272	VV	1
	15.957			853	VV	
	16.176			838	VB	
PCB016	16.455	0.34	7.536E-04-	470	BB	1
	16.736			2022	BV	
	16.923			1596	VV	
	17.135			7900	VV	
	17.336			7583	VV	
	17.453			4469	VV	
	17.645			1502	VV	
	17.840			982	VV	
	17.968			2080	VV	
	18.041			2279	VB	
	18.273			478	BV	
PCB016	18.495	0.10	0.02125	4870	VV	1
	18.665			2140	VV	
	18.902			2162	VV	
PCB016	19.019	0.03	0.01651	2429	VE	1
	19.211			339	EV	
	19.346			3519	VV	
	19.471			1636	VV	
PCB254	19.582	0.57	0.03469	7137	VV	2
	19.846			6729	VV	
	20.164			51838	VV	
	20.276			17774	VV	
PCB254	20.426	0.17	0.09151	31204	VV	2
	20.546			11206	VV	
PCB254	20.730	0.51	0.1292	21109	VV	2
	20.831			21096	VE	
	20.993			4020	EV	
	21.219			652	VB	
	21.399			217	BV	
	21.547			13184	VV	
	21.856			12242	VV	
PCB254	22.118	0.38	0.07785	20289	VV	2
	22.398			10837	VV	
PCB260	22.558	0.02	0.2230	58433	VV	3
	22.839			8150	VV	
	22.928			6972	VV	
	23.042			38446	VV	
	23.267			27836	VV	
	23.527			5855	VV	
PCB260	23.613	-0.37	0.06861	43627	VE	3
	23.774			5137	EV	
	23.976			3896	VV	
	24.198			4291	VE	
	24.308			348	EV	
PCB260	24.425	-0.32	0.04703	11702	VB	3
PCB254	24.768	0.09	0.07910	15440	BV	2
	24.964			20676	VV	
	25.149			21035	VV	
	25.366			50876	VE	
PCB260	25.491	-0.06	0.01375	6653	EV	3
	25.609			830	EV	
PCB260	25.770	-0.83	0.02721	6741	VV	3
	25.923			4492	VV	
	26.041			1274	VV	
	26.209			883	VV	
	26.305			1208	VB	
	26.818			450	BV	

	26.940			6049	VV
	27.098			16619	VV
	27.203			8102	VV
DBUCLE	27.366	0.93	5.956E-03	6626	VV
	27.478		1.9853	14910	VE
	27.613			1598	EV
	27.734			931	EV
	27.926			1254	VV
	28.246			578	VB
	28.444			218	BB
	28.703			265	BV
	28.916			318	VB
	29.148			1843	BV
	29.258			1288	VV
	29.385			1123	VV
	29.565			6636	VB
	30.052			218	BB
	30.437			1922	BB
	30.903			171	BB
	31.925			517	BV
	32.094			1088	VB
	34.427			442	BB
	36.842			2670	BB
	37.378			95	BB

GROUP REPORT

Group	UG/SAMPLE
1	4.263E-02
2	0.4123
3	0.3796

137.43 x 10 = 1374.3

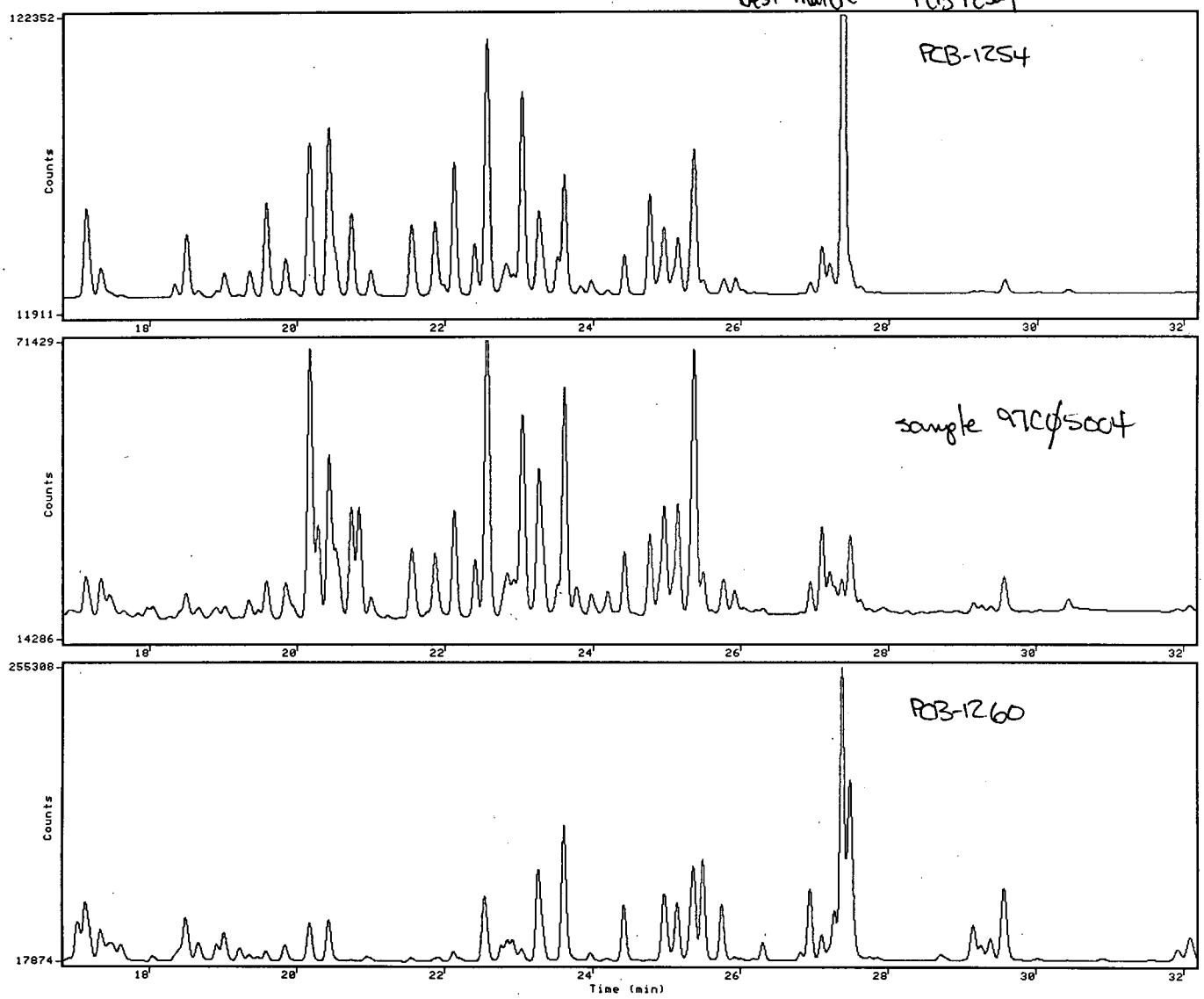
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

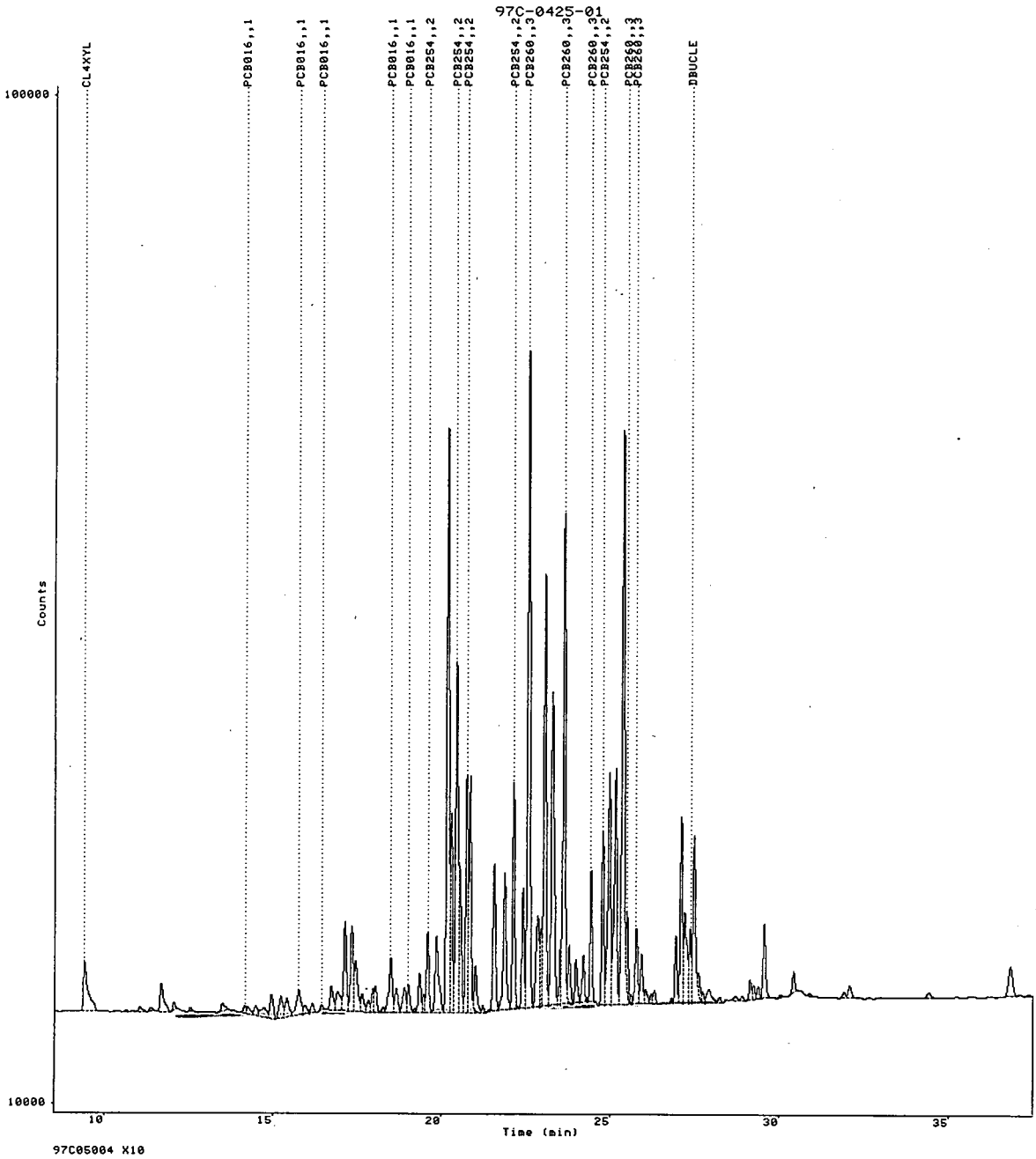
Date: 18-NOV-1997 17:47:55.54

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316057	16.81	32.20	14286	71429	1
8397316053	16.81	32.20	17874	255308	1

best match = PCB 1254



Data file: DISK:[TAYLORC]8397316057.RAW;1
Report: 1197251541
Acquired: 16-NOV-1997 03:51:58
Time range: 8.50-37.50



0438

Date.....18-NOV-1997 15:59:11.92 User: TAYLORC
Report number.....1197251542
Raw file.....DISK:[TAYLORC]8397316058.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 04:32:18
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05005 X10
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.398	-1.40	~~5.360E-03~~ 11/18/97 1.7866	4996		BB	
	10.640			214		BB	
	11.050			829		BB	
	11.369			201		BB	
	11.691			3029		BB	
	12.068			740		BB	
	12.557			470		BB	
	13.512			301		BB	
	13.846			80		BB	
PCB016	14.181	0.10	1.218E-03-	780		BB	1
	14.746			925		BV	
	14.968			2632		VB	
	15.186			9826		BE	
	15.403			1210		EV	
PCB016	15.780	-0.15	4.472E-03	2704		VV	1

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	15.966			1052	VV	
	16.172			1273	VB	
PCB016	16.452	0.51	1.360E-03-	606	BB	1
	16.732			2783	BV	
	16.921			1597	VV	
	17.134			9765	VV	
	17.336			9528	VV	
	17.455			5954	VV	
	17.648			1611	VV	
	17.840			1255	VV	
	17.967			2796	VV	
	18.041			2946	VB	
	18.273			486	BV	
PCB016	18.495	0.12	0.02775	6230	VV	1
	18.665			2981	VV	
	18.904			2887	VV	
PCB016	19.020	0.02	0.02135	3054	VE	1
	19.204			500	EV	
	19.345			4575	VV	
	19.470			1785	VV	
PCB254	19.582	0.58	0.04056	8257	VV	2
	19.846			8015	VV	
	20.163			65734	VV	
	20.274			20454	VV	
PCB254	20.427	0.14	0.1090	36553	VV	2
	20.502			16814	VV	
PCB254	20.731	0.47	0.1620	25697	VV	2
	20.831			25472	VE	
	20.994			4765	EV	
	21.221			909	VB	
	21.400			282	BV	
	21.546			17148	VV	
	21.855			15009	VV	
PCB254	22.118	0.39	0.09742	25030	VV	2
	22.398			13244	VV	
PCB260	22.558	-0.01	0.2927	71542	VV	3
	22.840			10065	VV	
	22.924			8739	VV	
	23.041			44598	VV	
	23.266			33367	VV	
	23.525			7376	VV	
PCB260	23.613	-0.35	0.08501	53103	VE	3
	23.774			6242	EV	
	23.976			5168	VV	
	24.198			5735	VE	
	24.306			731	EV	
PCB260	24.425	-0.31	0.05917	14618	VE	3
	24.557			437	EV	
PCB254	24.770	0.01	0.08757	17003	VV	2
	24.965			25124	VV	
	25.149			25928	VV	
	25.368			60747	VE	
PCB260	25.492	-0.12	0.01638	7909	EV	3
	25.610			1025	EV	
PCB260	25.772	-0.94	0.03259	8065	VV	3
	25.924			5533	VE	
	26.042			1008	EV	
	26.210			921	VV	
	26.305			1309	VB	
	26.818			469	BV	

	26.941			6872	VV
	27.096			20724	VV
	27.203			9582	VV
DBUCLE	27.367	0.90	~~6.290E-03~~ 2.0966	7082	VV
	27.477			17703	VE
	27.614			2039	EV
	27.735			1040	EV
	27.925			1250	VV
	28.246			512	VB
	28.449			314	BV
	28.704			651	VV
	28.915			370	VV
	29.148			2479	VV
	29.261			1687	VV
	29.380			1370	VV
	29.566			8164	VB
	30.039			311	BB
	30.438			3050	BB
	30.904			224	BB
	31.925			587	BV
	32.092			1191	VB
	32.690			71	BB
	34.427			507	BB
	36.842			3019	BB

GROUP REPORT

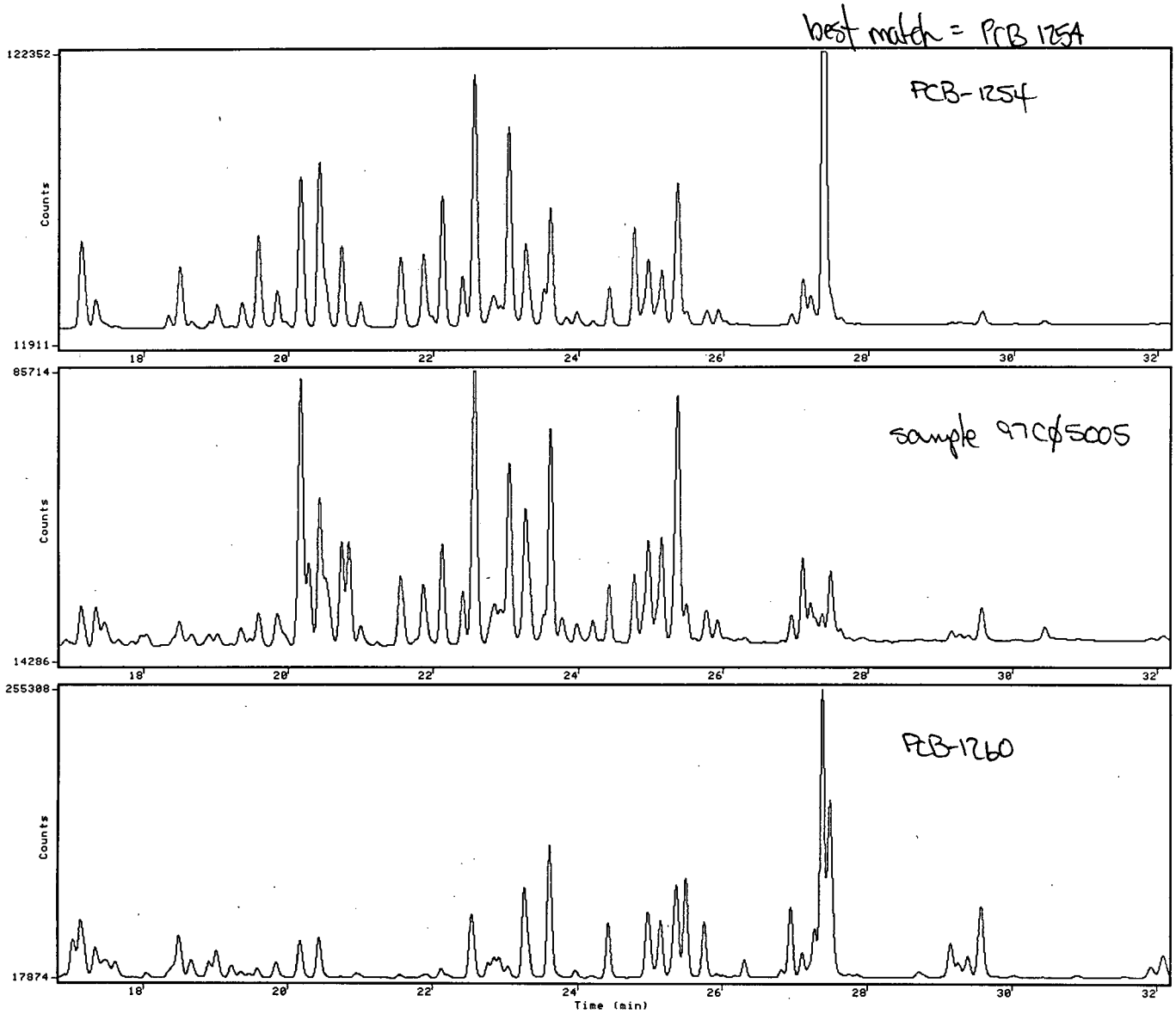
Group	UG/SAMPLE
1	5.615E-02
2	0.4966 ×333.3333 × 10.0 = 1655.3332
3	0.4858

ANALYSIS NOTES

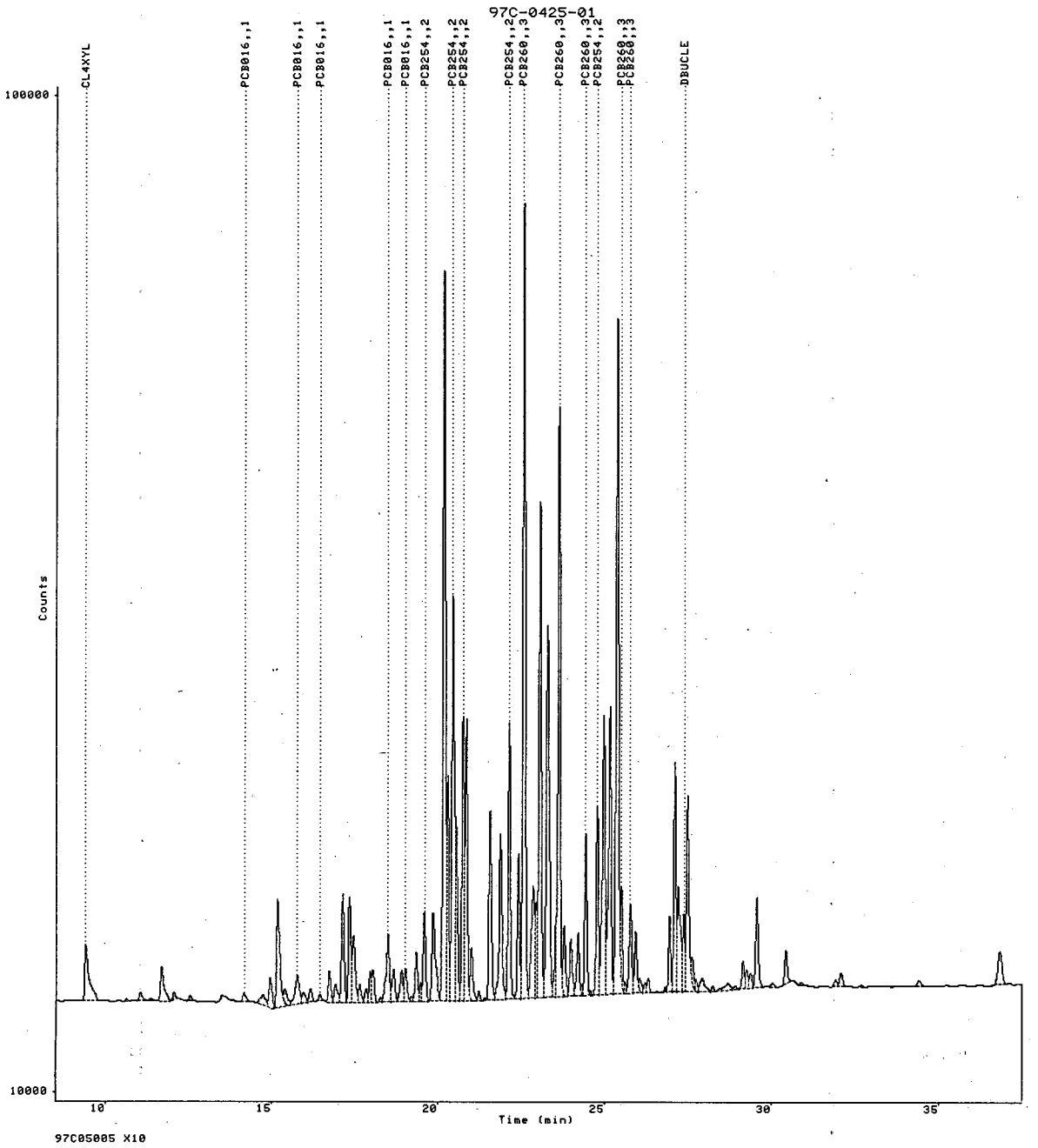
1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 17:51:02.23

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316058	16.81	32.20	14286	85714	1
8397316053	16.81	32.20	17874	255308	1



Data file: DISK:[TAYLORC]8397316058.RAW;1
Report: 1197251542
Acquired: 16-NOV-1997 04:32:18
Time range: 8.50-37.50



Date.....18-NOV-1997 15:59:17.15 User: TAYLORC
Report number.....1197251543
Raw file.....DISK:[TAYLORC]8397316059.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 05:12:36
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05007 X10
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.396	-1.26	~~5.427E-03~~ 1.809	5057		BB	
	10.639			229		BB	
	11.045			2127		BE	
	11.366			104		EB	
	11.691			23612		BE	
	12.065			655		EV	
	12.226			157		EB	
	12.556			881		BB	
	13.510			426		BB	
PCB016	14.180	0.18	2.671E-03-	1150		BB	1
	14.748			1469		BV	
	14.969			3642		VB	
	15.250			3373		BV	
	15.407			1834		VV	
PCB016	15.778	-0.04	6.478E-03	3582		VV	1

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	15.960			1482	VV	
	16.181			1591	VB	
PCB016	16.452	0.51	2.989E-03-	971	BB	1
	16.734			1290	BV	
	16.930			726	VV	
	17.024			995	VV	
	17.134			13828	VV	
	17.336			11152	VV	
	17.452			7033	VV	
	17.649			2484	VV	
	17.833			1611	VV	
	18.046			5819	VB	
	18.273			1063	BV	
PCB016	18.495	0.11	0.03747	8238	VV	1
	18.664			3842	VV	
	18.885			3624	VV	
PCB016	19.020	0.01	0.03507	4814	VV	1
	19.343			7001	VV	
	19.471			2163	VV	
PCB254	19.582	0.62	0.06678	13134	VV	2
	19.869			13022	VV	
	20.161			143534	VV	
	20.275			69735	VV	
PCB254	20.425	0.23	0.1763	55708	VV	2
	20.521			28360	VV	
PCB254	20.730	0.56	0.3127	43268	VV	2
	20.830			84203	VE	
	20.993			8127	EV	
	21.243			1481	VV	
	21.397			445	VV	
	21.547			21195	VV	
	21.855			24656	VV	
PCB254	22.116	0.48	0.1629	40018	VV	2
	22.398			24404	VV	
PCB260	22.558	-0.01		129490	VV	3
	22.842			17461	VV	
	22.917			14325	VV	
	23.040			64632	VV	
	23.264			57631	VV	
PCB260	23.612	-0.31	0.1606	93010	VV	3
	23.774			20815	VV	
	23.974			8932	VV	
	24.197			7535	VV	
	24.312			2280	VV	
PCB260	24.424	-0.25	0.1093	26207	VE	3
	24.552			1041	EV	
PCB254	24.770	-0.00	0.1233	23469	VV	2
	24.962			42736	VV	
	25.149			45468	VV	
	25.365			107953	VE	
PCB260	25.489	0.07	0.02687	12864	EV	3
	25.610			2315	EV	
PCB260	25.772	-0.98	0.05561	13627	VV	3
	25.926			9707	VV	
	26.044			4024	VV	
	26.208			2934	VV	
	26.309			2003	VB	
	26.556			92	BB	
	26.681			203	BV	
	26.818			868	VV	

	26.939			11792	VV
	27.096			36540	VV
	27.202			13892	VV
	27.267		2.097	9975	VV
DBUCLE	27.368	0.85	~~6.291E-03~~ 11/18/97	7084	VV
	27.478			29488	VE
	27.613			3482	EV
	27.730			1936	EV
	27.919			2739	VV
	28.250			1093	VB
	28.445			443	BB
	28.699			472	BB
	28.920			293	BB
	29.147			2823	BV
	29.258			2738	VV
	29.383			1906	VV
	29.565			14206	VB
	30.038			483	BB
	30.438			1216	BB
	30.903			342	BB
	31.924			860	BV
	32.093			1779	VB
	34.427			746	BB
	36.269			117	BB
	36.841			3318	BB

GROUP REPORT

Group	UG/SAMPLE
1	8.468E-02
2	0.8419 X333.3333 X10.0 = 2806.33
3	0.3524

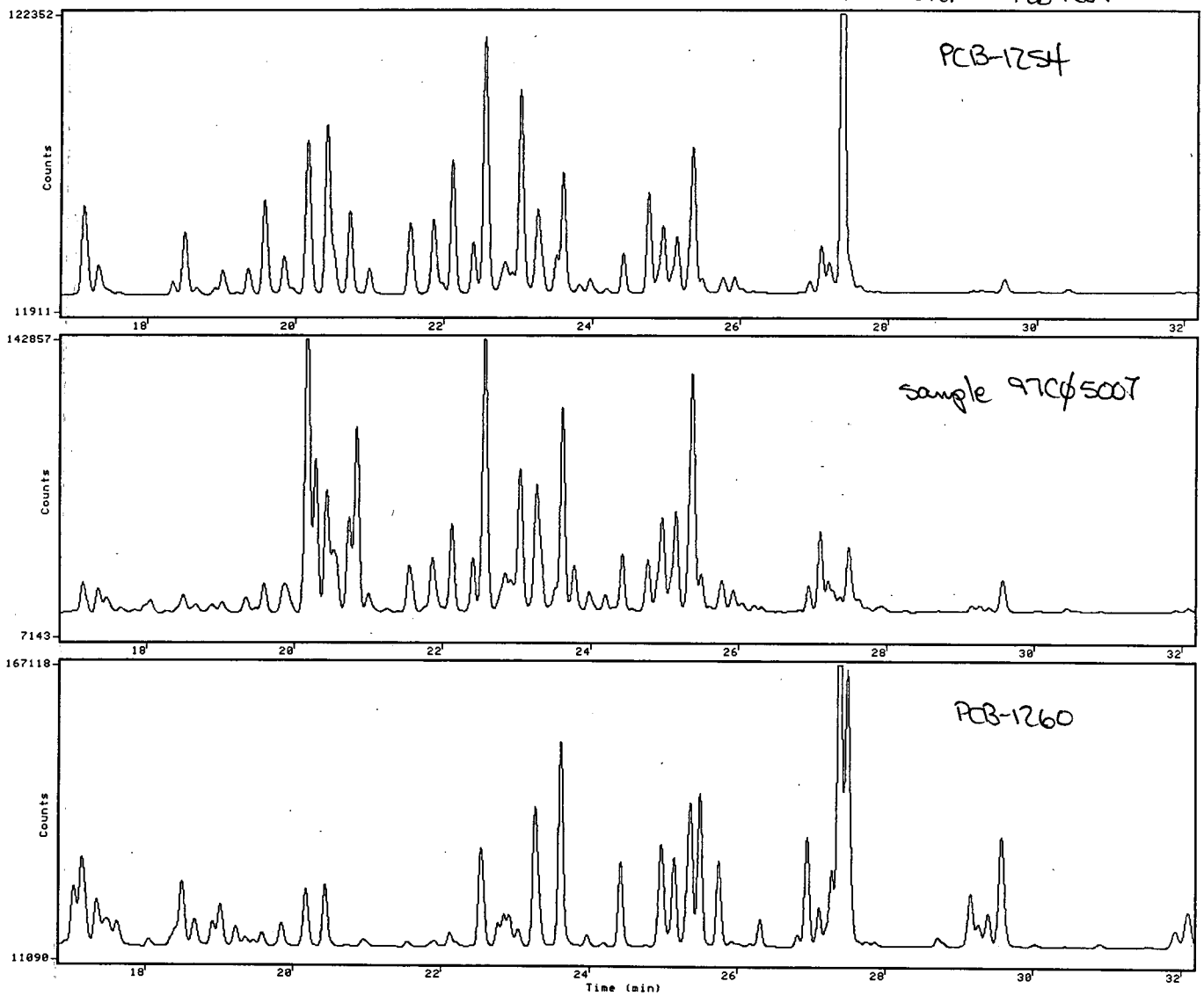
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 17:54:45.56

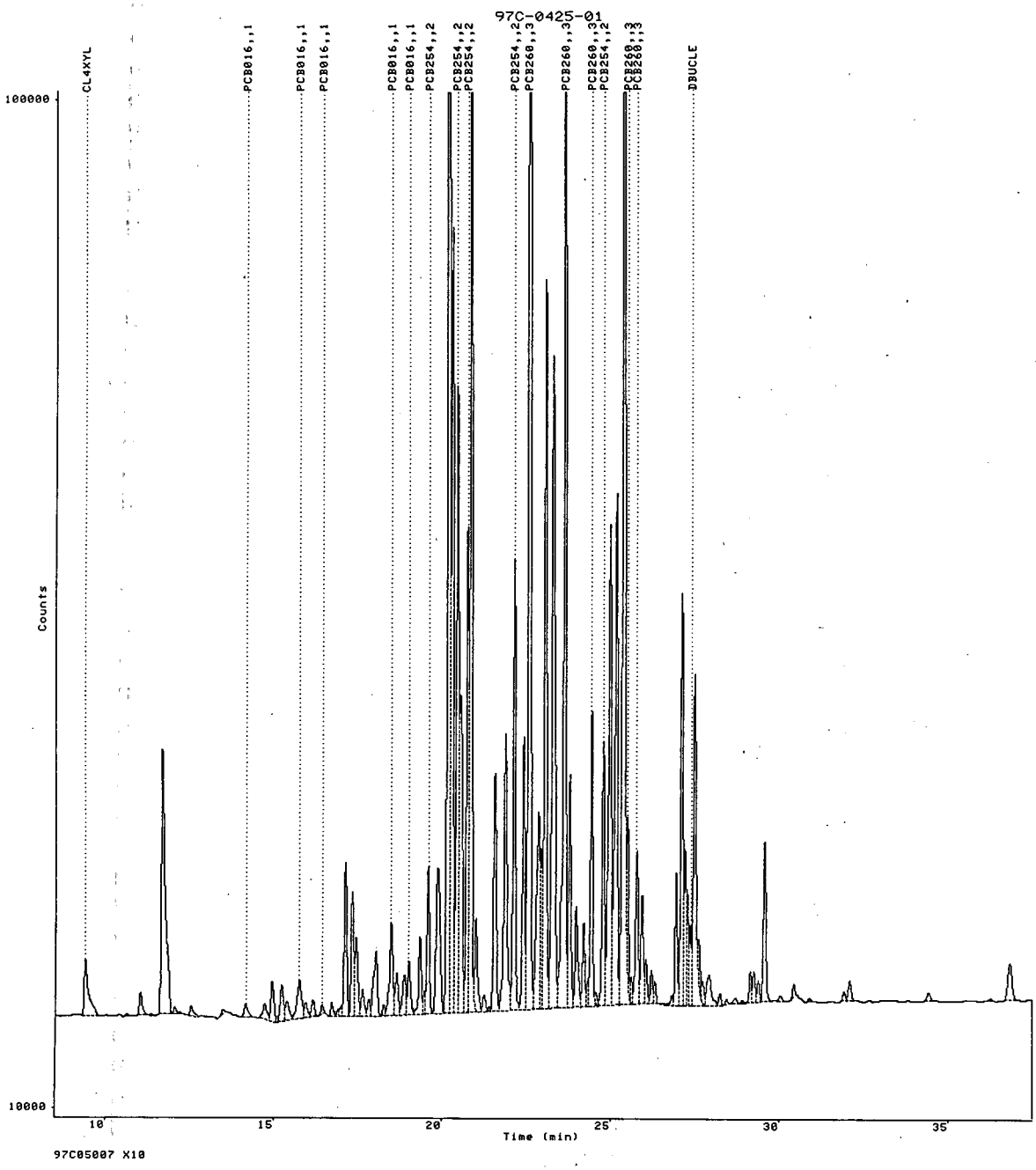
Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316059	16.81	32.20	7143	142857	1
8397316053	16.81	32.20	11090	167118	1

best match = PCB 1254



0447

Data file: DISK:[TAYLORC]8397316059.RAW;1
Report: 1197251543
Acquired: 16-NOV-1997 05:12:36
Time range: 8.50-37.50



Date.....18-NOV-1997 15:59:22.43 User: TAYLORC
Report number.....1197251544
Raw file.....DISK:[TAYLORC]8397316060.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 05:52:54
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05008 X10
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....108
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

==========
EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.396	-1.24	~~5.868E-03~~ 1.956 11/18/97	5458		BB	
	10.017			89		BB	
	10.282			158		BV	
	10.392			398		VB	
	10.612			369		BB	
	11.046			2109		BV	
	11.396			5313		VV	
	11.689			2865		VB	
	12.070			2385		BB	
	12.550			191		BB	
	12.734			148		BV	
	12.845			82		VB	
	13.012			156		BV	
	13.120			181		VB	
	13.280			57		BB	

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	13.501			828	BB	
PCB016	14.176	0.44	-3.408E-04-	382	BV	1
	14.300			848	VV	
	14.495			806	VB	
	14.762			279	BB	
	14.957			445	BB	
	15.264			1218	BV	
	15.434			4066	VE	
PCB016	15.780	-0.20	-6.603E-04-	445	EB	1
	16.189			131	BB	
PCB016	16.467	-0.34	-8.747E-04-	104	BB	1
	16.928			309	BB	
	17.135			3495	BB	
	17.338			2860	BV	
	17.453			1778	VV	
	17.647			522	VB	
	17.949			587	BV	
	18.067			904	VV	
	18.286			928	VV	
PCB016	18.495	0.11	9.522E-03	2384	VV	1
	18.672			1249	VV	
	18.862			3106	VV	
PCB016	19.018	0.09	0.01389	2090	VV	1
	19.228			746	VV	
	19.362			1169	VV	
	19.466			1623	VV	
PCB254	19.579	0.79	0.01803	3904	VB	2
	19.851			2344	BV	
	20.163			12191	VV	
	20.276			13075	VV	
PCB254	20.427	0.11	0.03588	13264	VV	2
	20.521			5489	VV	
PCB254	20.731	0.46	0.05517	9759	VV	2
	20.828			5357	VV	
	20.993			2384	VV	
	21.234			839	VV	
	21.425			1060	VV	
	21.548			3439	VV	
	21.903			8629	VV	
PCB254	22.116	0.51	0.02993	8175	VV	2
	22.397			5592	VV	
PCB260	22.559	-0.07	0.08576	25589	VB	3
	22.833			4424	BV	
	23.041			20879	VV	
	23.267			13024	VV	
PCB260	23.613	-0.38	0.03387	22607	VE	3
	23.770			3949	EV	
	23.976			1043	EV	
	24.047			852	VV	
	24.198			3340	VV	
	24.321			606	VV	
PCB260	24.425	-0.33	0.01814	4593	VE	3
	24.566			469	EB	
PCB254	24.767	0.17	0.03941	7944	BV	2
	24.964			8057	VV	
	25.149			9805	VV	
	25.370			28424	VE	
PCB260	25.490	0.01	7.706E-03	3750	EV	3
	25.611			814	EV	
PCB260	25.770	-0.85	0.01094	2685	VV	3

	25.926			1940	VV
	26.047			1799	VB
	26.207			2291	BB
	26.684			143	BV
	26.820			453	VV
	26.940			2827	VV
	27.096			7615	VV
	27.205			4396	VV
DBUCLE	27.370	0.74	~~6.467E-03~~ 2.15567	7323	VV
	27.478			7032	VE
	27.728			681	EV
	27.920			1611	VV
	28.245			1112	VB
	28.457			591	BV
	28.689			331	VB
	28.917			388	BB
	29.146			1298	BV
	29.256			805	VV
	29.386			799	VV
	29.563			2531	VB
	29.889			78	BB
	30.064			132	BB
	30.337			219	BV
	30.444			280	VV
	30.544			421	VB
	30.894			144	BB
	31.067			76	BB
	31.925			267	BV
	32.097			503	VB
	32.689			62	BB
	33.102			79	BB
	34.426			328	BB
	36.842			3325	BB

GROUP REPORT

Group	UG/SAMPLE
1	2.154E-02
2	0.1784 X333.3333
3	0.1564

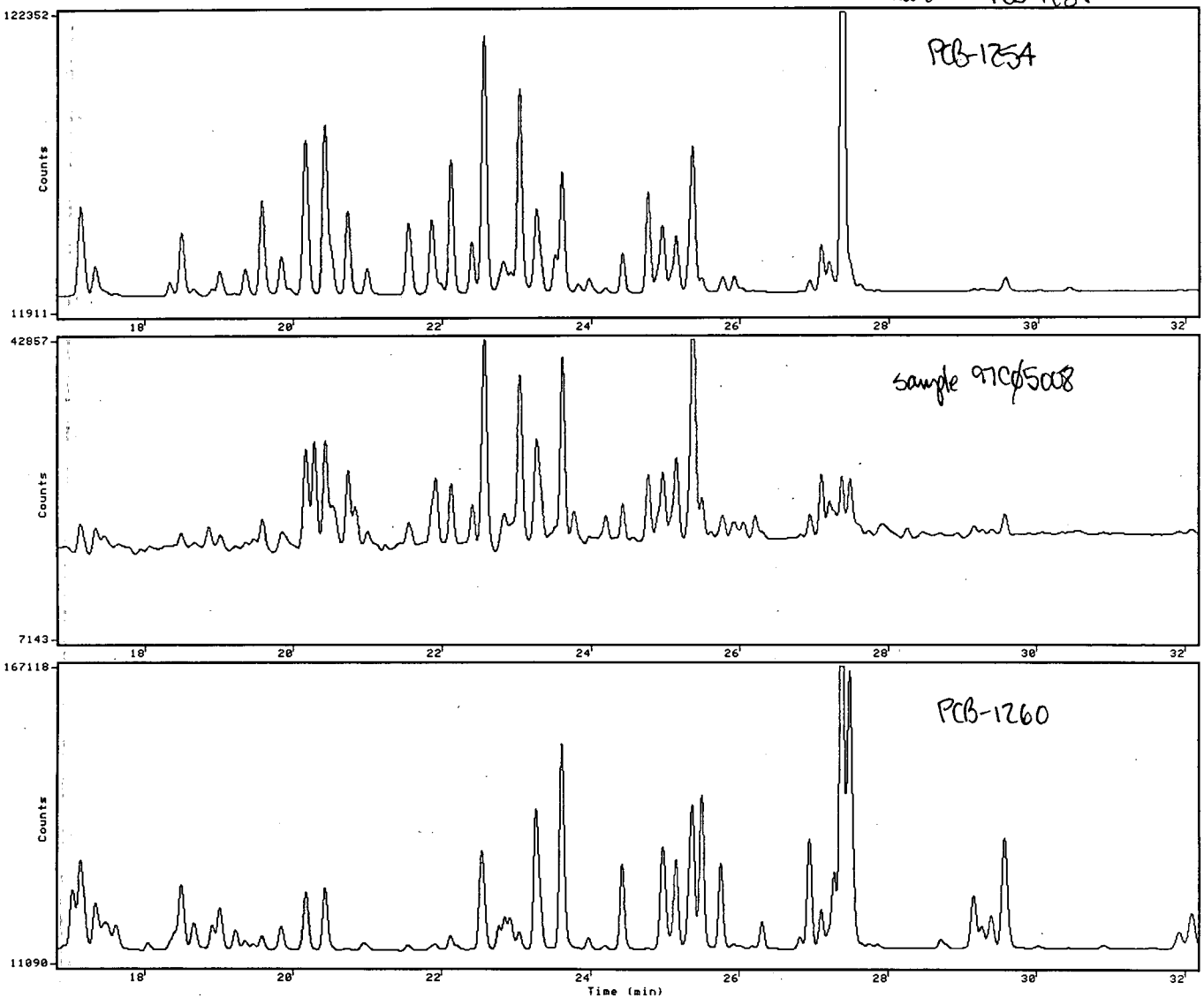
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

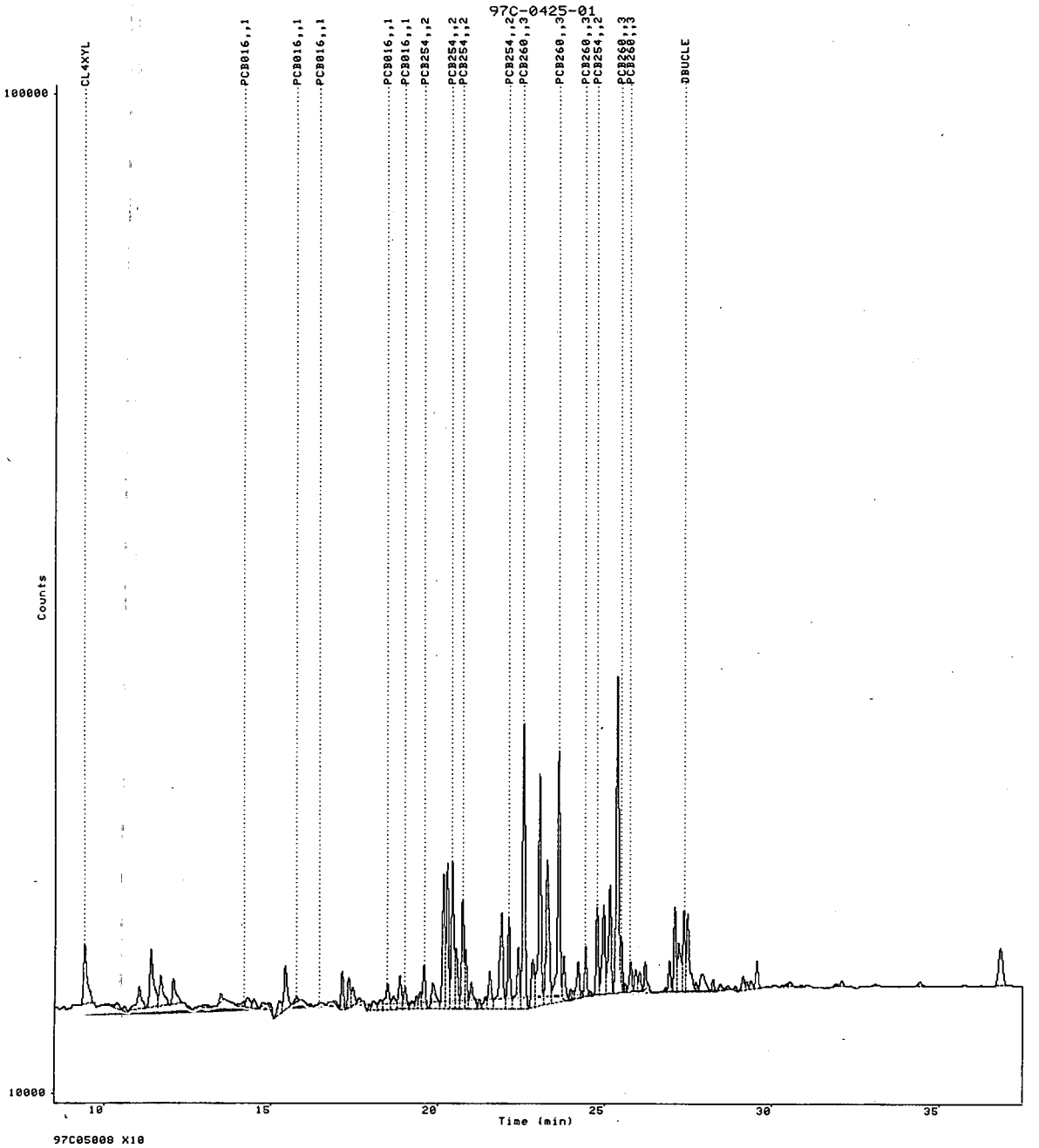
Date: 18-NOV-1997 17:59:21.39

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316060	16.81	32.20	7143	42857	1
8397316053	16.81	32.20	11090	167118	1

best match = PCB-1254



Data file: DISK:[TAYLORC]8397316060.RAW;1
Report: 1197251544
Acquired: 16-NOV-1997 05:52:54
Time range: 8.50-37.50



Date.....18-NOV-1997 15:59:28.37 User: TAYLORC
Report number.....1197251545
Raw file.....DISK:[TAYLORC]8397316061.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 06:33:08
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05009 X25
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
length.....30 M
diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....76
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref Std
14.18	PCB016	1	
15.78	PCB016	1	

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.399	-1.44	~~2.225E-03~~ 11/18/97	2143		BB	
	11.057		0.74166	66		BB	
	12.559			612		BB	
	14.753			843		BB	
	15.256			1019		BB	
	15.957			1124		BB	
PCB016	16.455	0.38	2.371E-04-	354		BB	1

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	17.136			2372	BB	
	17.337			1338	BV	
	17.477			1111	VB	
	17.947			191	BB	
	18.277			88	BB	
PCB016	18.497	0.03	1.191E-03-	592	BV	1
	18.680			1271	VB	
PCB016	19.024	-0.22	0.02056	2952	BE	1
	19.214			131	EV	
	19.360			972	VV	
PCB254	19.581	0.64	0.03963	8081	VB	2
	19.840			2900	BB	
	20.162			17953	BV	
PCB254	20.426	0.15	0.07750	26825	VV	2
PCB254	20.731	0.48	0.1354	21995	VE	2
	20.993			3066	EB	
	21.374			811	BV	
	21.556			2749	VV	
	21.858			7202	VE	
	21.974			945	EV	
PCB254	22.117	0.45	0.06812	17886	VB	2
	22.397			14495	BV	
PCB260	22.559	-0.04	0.2254	58927	VB	3
	22.829			7548	BV	
	22.924			4766	VV	
	23.040			52263	VV	
	23.266			26043	VV	
PCB260	23.612	-0.31	0.07230	45786	VE	3
	23.834			1274	EV	
	23.974			2797	EV	
	24.193			1209	VV	
PCB260	24.424	-0.26	0.04537	11302	VE	3
	24.547			460	EV	
PCB254	24.767	0.20	0.1021	19656	VV	2
	24.961			18277	VV	
	25.148			18499	VV	
	25.363			54383	VE	
PCB260	25.489	0.08	7.687E-03	3741	EV	3
	25.608			1240	EV	
PCB260	25.774	-1.09	0.02141	5305	VV	3
	25.927			4649	VV	
	26.038			2553	VV	
	26.207			3336	VE	
	26.311			449	EB	
	26.682			116	BV	
	26.938			3806	VV	
	27.095			17784	VV	
	27.198			9115	VV	
DBUCLE	27.368	0.83	3.330E-03- 1.10999	3039	VV	
	27.478			8928	VV	
	27.606			2804	VV	
	27.734			867	VV	
	27.916			1981	VB	
	28.251			724	BB	
	28.449			314	BB	
	28.687			142	BB	
	28.919			233	BB	
	29.146			499	BV	
	29.256			874	VV	
	29.381			323	VV	

29.563	4398	VB
29.889	122	BB
30.045	156	BB
30.531	279	BB
31.059	69	BB
31.923	139	BV
32.092	302	VB
34.428	104	BB
36.838	1270	BB

GROUP REPORT

Group	UG/SAMPLE
1	2.198E-02
2	0.4227 X333.3333 = 140.9
3	0.3722

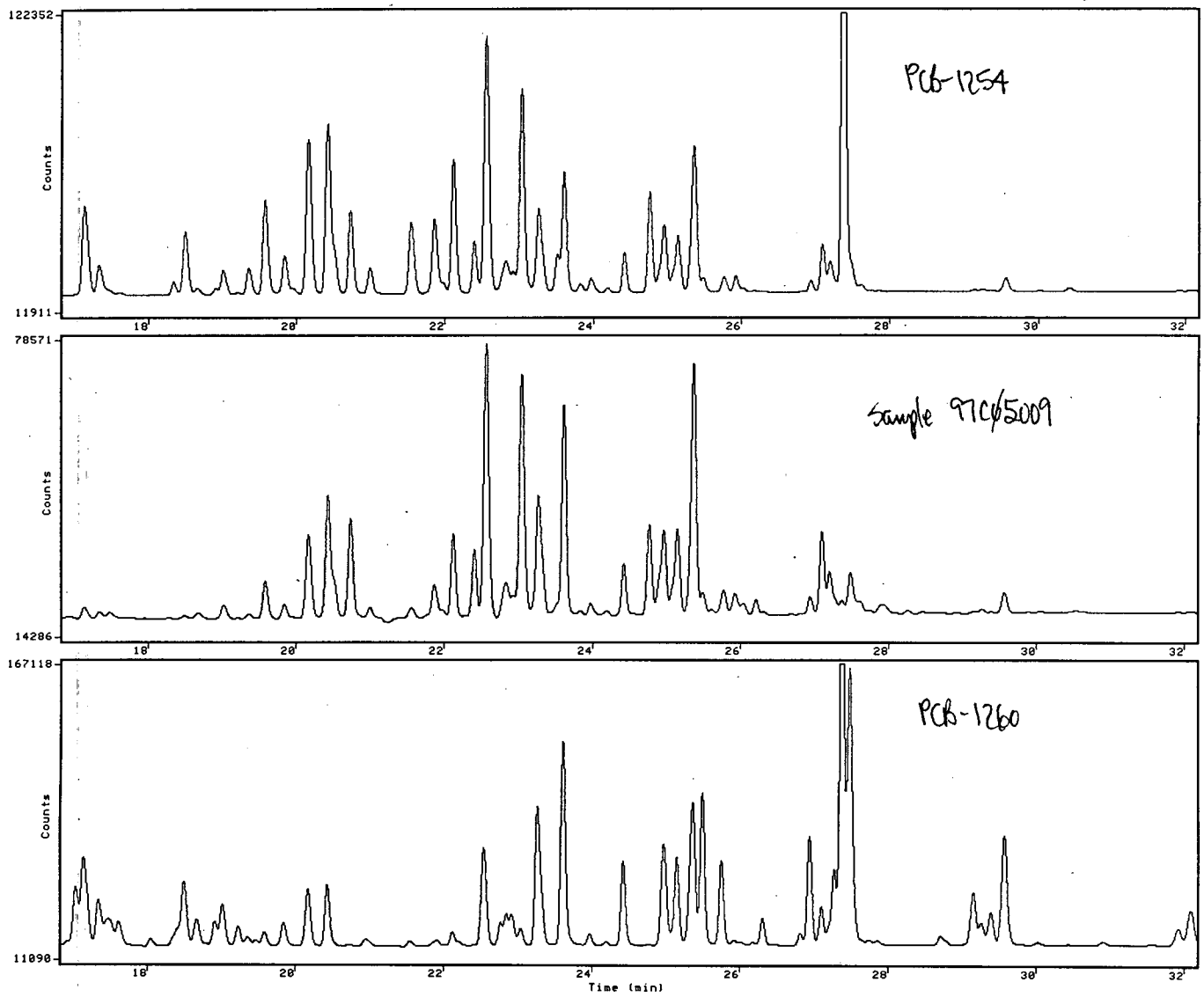
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 18:02:43.39

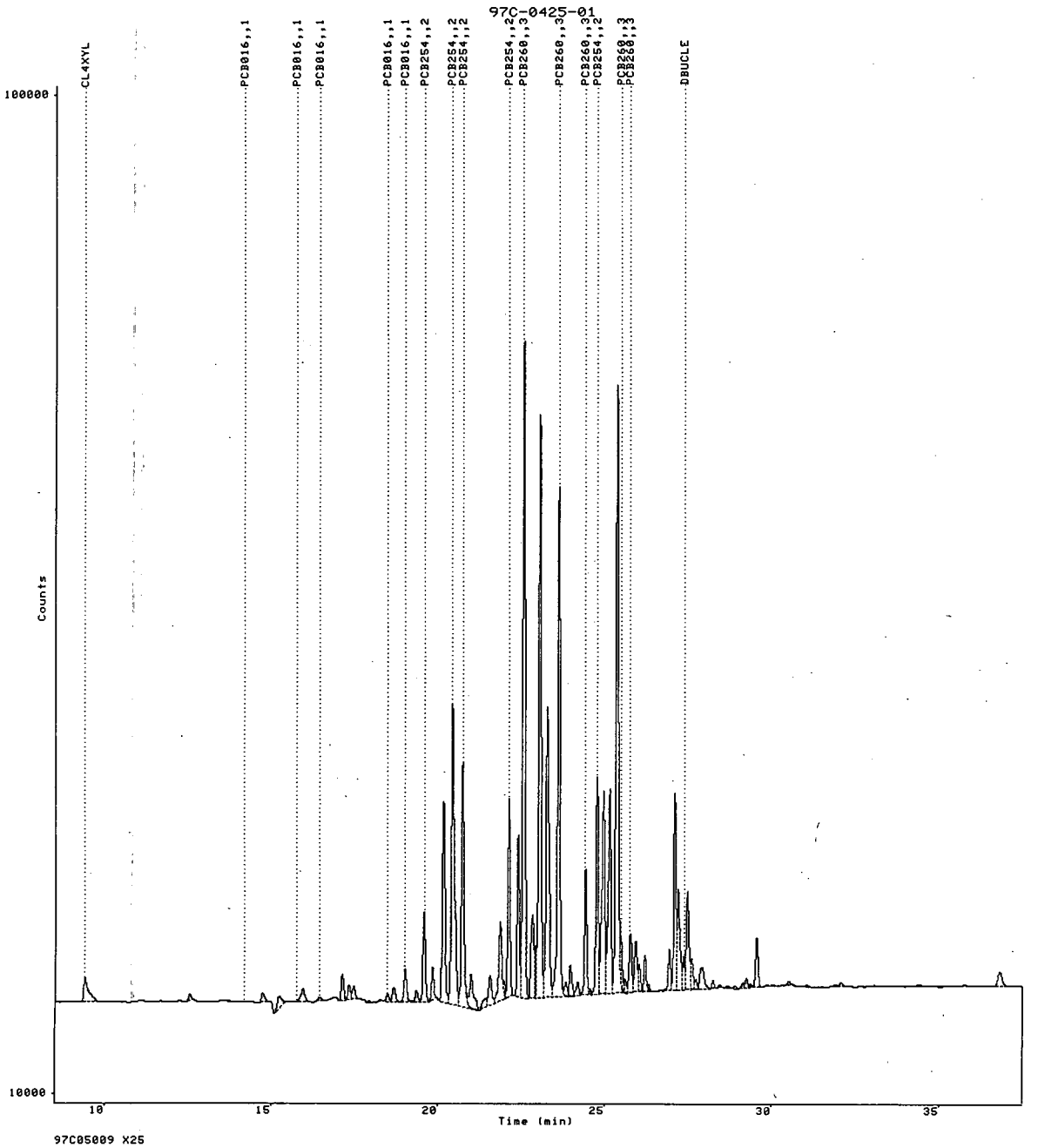
Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316061	16.81	32.20	14286	78571	1
8397316053	16.81	32.20	11090	167118	1

best match = PCB-1254



0457

Data file: DISK:[TAYLORC]8397316061.RAW;1
Report: 1197251545
Acquired: 16-NOV-1997 06:33:08
Time range: 8.50-37.50



0458

Date.....18-NOV-1997 15:59:33.83 User: TAYLORC
Report number.....1197251546
Raw file.....DISK:[TAYLORC]8397316062.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 07:13:26
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05010 X100
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 TW 11/17/97

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.18	PCB016	1		
15.78	PCB016	1		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.396	-1.27	~~3.734E-04-~~ TW 11/18/97 0.1244667	454			BB	
	12.558			510			BB	
	14.750			456			BB	
	15.232			567			BB	
	15.954			884			BB	
PCB016	16.450	0.65	-1.678E-04-	263			BB	1
	17.132			2537			BV	

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	17.335			1247	VV	
	17.473			616	VB	
PCB016	18.495	0.11	1.080E-03-	568	BV	1
	18.677			680	VB	
PCB016	19.023	-0.19	9.034E-03	1458	BB	1
	19.360			445	BB	
PCB254	19.581	0.65	0.02330	4937	BB	2
	19.839			1829	BB	
	20.162			11552	BV	
PCB254	20.425	0.23	0.05639	20050	VV	2
PCB254	20.730	0.51	0.08245	14105	VE	2
	20.991			1523	EB	
	21.553			2191	BV	
	21.856			6568	VV	
PCB254	22.115	0.51	0.04881	13033	VV	2
	22.397			8417	VV	
PCB260	22.558	0.02	0.1129	32826	VV	3
	22.827			3936	VV	
	23.041			29011	VV	
	23.265			14151	VV	
PCB260	23.612	-0.32	0.03792	25125	VE	3
	23.833			651	EV	
	23.974			1488	EV	
	24.195			656	VB	
PCB260	24.424	-0.26	0.02108	5327	BB	3
PCB254	24.766	0.25	0.05464	10853	BV	2
	24.961			9615	VV	
	25.149			9716	VV	
	25.364			29839	VE	
PCB260	25.488	0.13	3.830E-03-	1873	EV	3
	25.607			562	EV	
PCB260	25.775	-1.13	0.01072	2628	VV	3
	25.924			2396	VV	
	26.039			1192	VV	
	26.207			1047	VV	
	26.309			294	VB	
	26.938			1797	BV	
	27.095			9116	VV	
	27.199			4577	VE	
DBUCLE	27.361	1.26	~~1.482E-03-~~ 0.494	507	EV	
	27.477			4137	VE	
	27.612			741	EB	
	27.923			654	BB	
	28.249			455	BB	
	28.446			174	BB	
	28.921			91	BB	
	29.146			206	BV	
	29.256			424	VV	
	29.381			141	VB	
	29.564			2357	BB	
	30.542			263	BB	
	32.090			136	BB	
	36.839			291	BB	

GROUP REPORT

Group	UG/SAMPLE
1	9.946E-03

2	0.2656	x333.3333 = 88.53
3	0.1865	

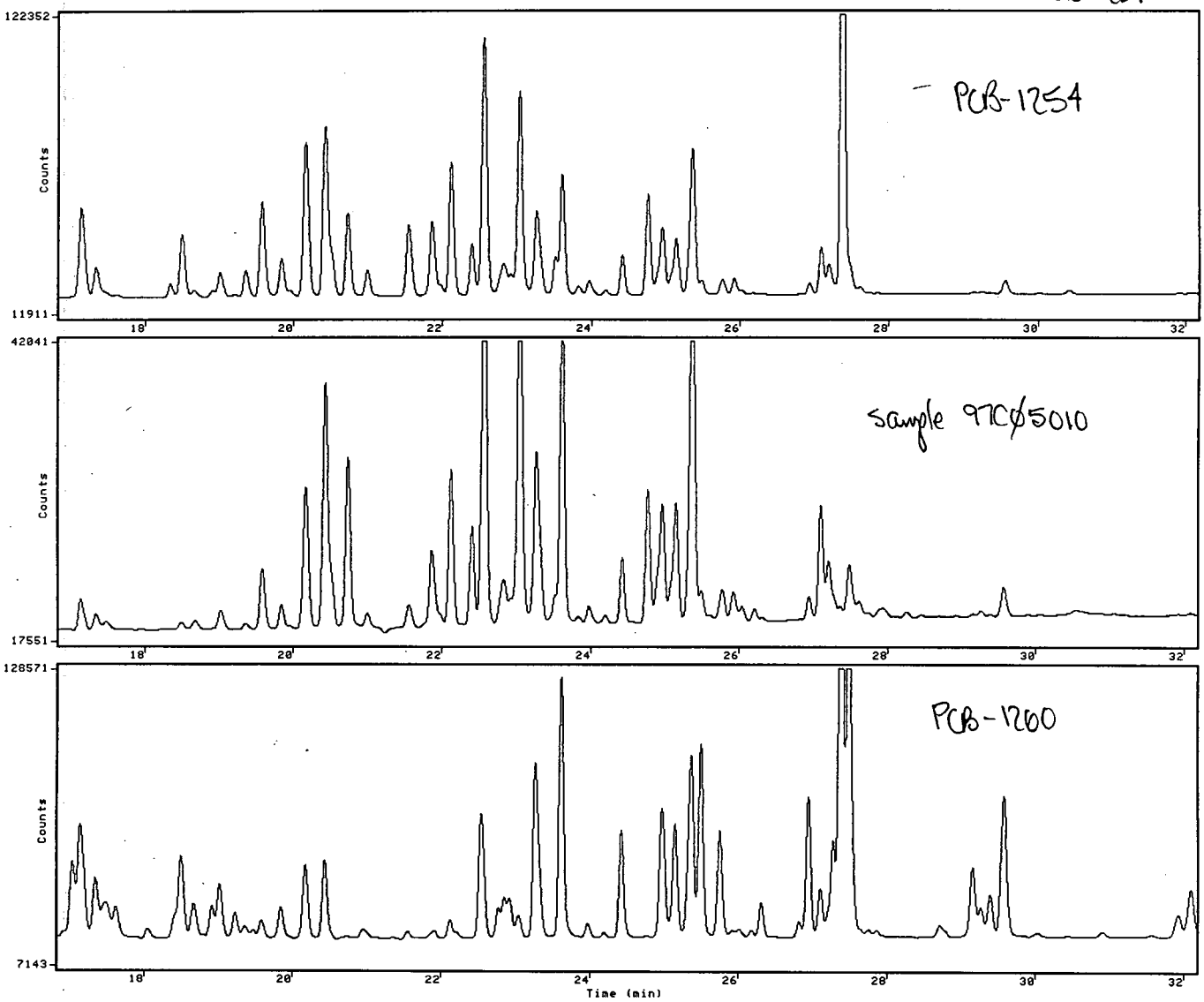
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

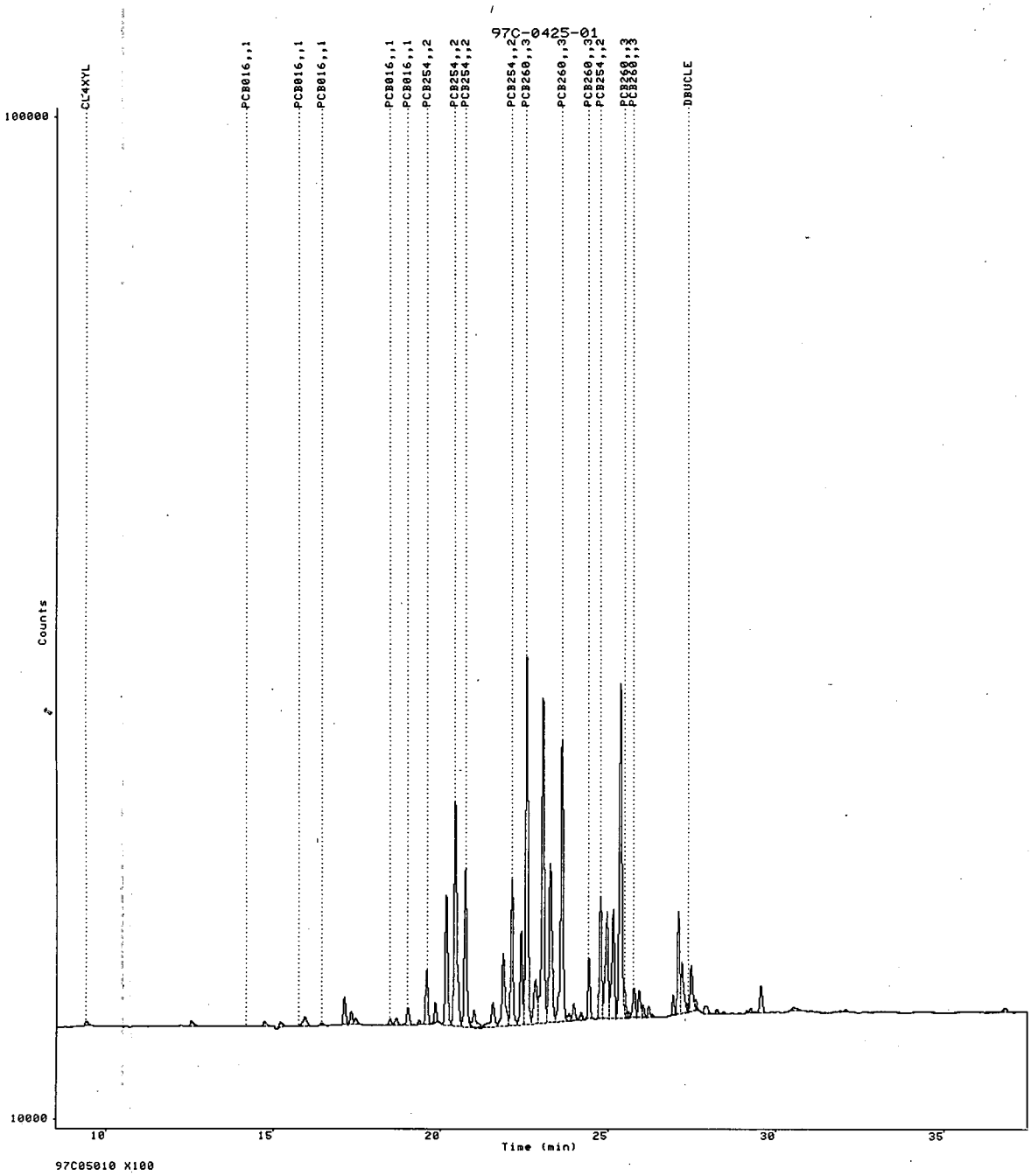
Date: 18-NOV-1997 18:06:17.08

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316062	16.81	32.20	17551	42041	1
8397316064	16.81	32.20	7143	128571	1

best match= PCB-1254



Data file: DISK:[TAYLORC]8397316062.RAW;1
Report: 1197251546
Acquired: 16-NOV-1997 07:13:26
Time range: 8.50-37.50



Date.....18-NOV-1997 15:59:38.92 User: TAYLORC
Report number.....1197251547
Raw file.....DISK:[TAYLORC]8397316063.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 07:53:42
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05011 X25
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.396	-1.28	~~2.544E-03-~~ 0.8480 11/18/97	2434		BB	
	10.636			125		BB	
	11.052			253		BB	
	11.371			111		BB	
	11.692			2481		BB	
	12.066			378		BB	
	12.557			374		BB	
	13.511			185		BB	
PCB016	14.181	0.09	1.316E-03-	805		BB	1
	14.658			423		BV	
	14.744			741		VV	
	14.969			1644		VB	
	15.255			2114		BV	
	15.408			1480		VV	
PCB016	15.778	-0.09	4.012E-03	2502		VV	1

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	15.956			818	VV	
	16.175			824	VB	
PCB016	16.453	0.46	7.714E-04-	474	BB	1
	16.733			1962	BV	
	16.922			1101	VV	
	17.135			9340	VV	
	17.336			9186	VV	
	17.451			4395	VV	
	17.649			1377	VV	
	17.842			795	VV	
	17.967			1842	VV	
	18.041			2168	VB	
	18.274			412	BV	
PCB016	18.497	0.01	0.02519	5696	VV	1
	18.664			2389	VV	
	18.889			3020	VV	
PCB016	19.020	0.01	0.01810	2635	VE	1
	19.215			479	EV	
	19.348			3040	VV	
	19.470			1539	VV	
PCB254	19.583	0.51	0.03371	6949	VV	2
	19.847			6523	VV	
	20.163			53535	VV	
	20.274			18555	VV	
PCB254	20.427	0.15	0.1053	35423	VV	2
PCB254	20.731	0.48	0.1548	24711	VV	2
	20.830			20099	VE	
	20.994			4250	EV	
	21.213			263	VB	
	21.400			334	BV	
	21.546			13618	VV	
	21.856			13925	VV	
PCB254	22.117	0.42	0.09212	23757	VV	2
	22.397			12294	VV	
PCB260	22.559	-0.06	0.2618	66035	VV	3
	22.835			9295	VV	
	22.924			7547	VV	
	23.041			41900	VV	
	23.267			29608	VV	
	23.525			6481	VV	
PCB260	23.614	-0.41	0.07303	46210	VE	3
	23.774			5619	EV	
	23.975			4215	VV	
	24.198			5542	VE	
	24.306			99	EV	
PCB260	24.426	-0.34	0.04895	12166	VE	3
	24.560			508	EV	
PCB254	24.770	0.01	0.08718	16932	VV	2
	24.963			21293	VV	
	25.150			22138	VV	
	25.366			54041	VE	
PCB260	25.490	-0.01	0.01253	6071	EV	3
	25.610			1165	EV	
PCB260	25.772	-0.94	0.02682	6647	VV	3
	25.924			4883	VV	
	26.041			1516	VV	
	26.204			1234	VV	
	26.304			1038	VB	
	26.571			163	BB	
	26.819			351	BV	

	26.940			5457	VV
	27.097			17498	VV
	27.203			8992	VV
DBUCLE	27.359	1.37	~~5.231E-03~~ 1.7437 KG 11/18/97	5637	VV
	27.478			13773	VE
	27.614			1789	EV
	27.732			979	EV
	27.926			1269	VV
	28.250			500	VB
	28.448			158	BB
	28.703			164	BB
	28.917			113	BB
	29.148			1343	BV
	29.257			1270	VV
	29.383			889	VV
	29.566			6483	VB
	30.045			239	BB
	30.437			2009	BB
	30.906			124	BB
	31.926			379	BV
	32.093			823	VB
	34.427			321	BB
	36.841			1477	BB

GROUP REPORT

Group	UG/SAMPLE
1	4.939E-02
2	0.4731 x333.3333 = 157.70
3	0.4232

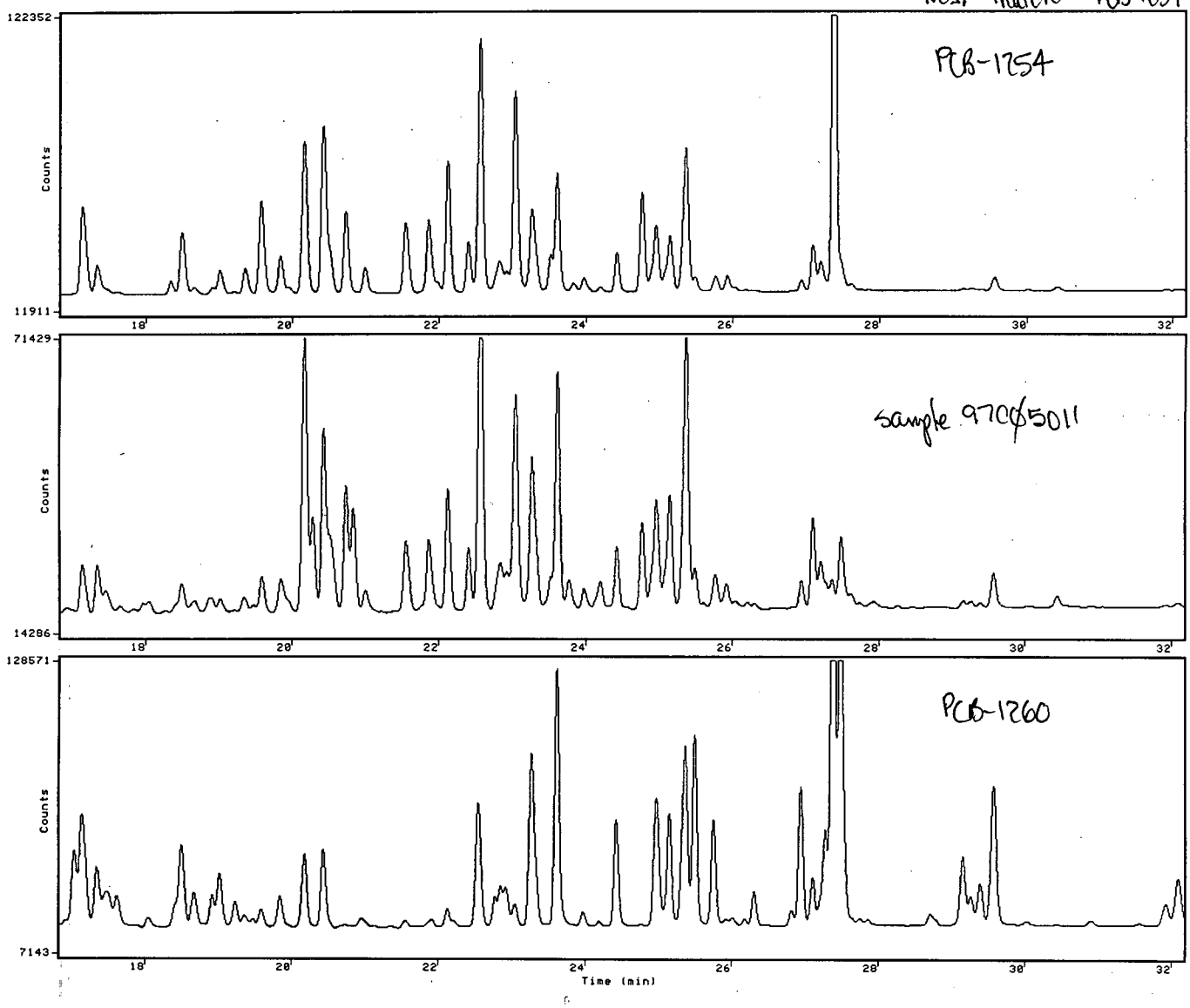
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

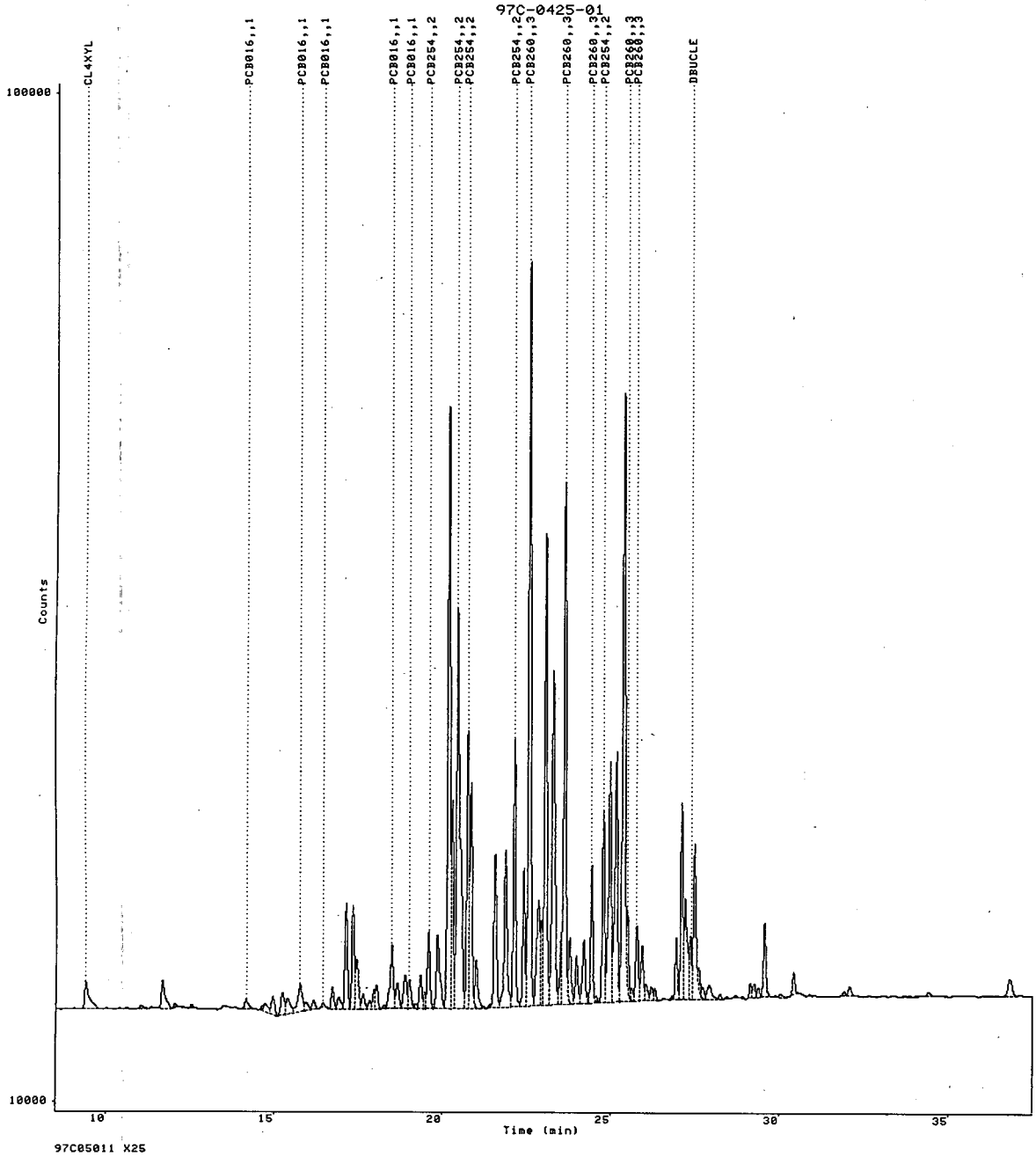
Date: 18-NOV-1997 18:09:41.95

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316063	16.81	32.20	14286	71429	1
8397316064	16.81	32.20	7143	128571	1

best match = PCB-1254



Data file: DISK:[TAYLORC]8397316063.RAW;1
Report: 1197251547
Acquired: 16-NOV-1997 07:53:42
Time range: 8.50-37.50



Date.....18-NOV-1997 15:59:50.51 User: TAYLORC
Report number.....1197251549
Raw file.....DISK:[TAYLORC]8397316065.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 09:14:17
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05012 X25
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....95
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 TM 11/18/97

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.399	-1.42	~~1.944E-03-~~ 0.6480 TM 11/18/97	1887		BB	
	10.606			177		BB	
	11.058			177		BB	
	11.693			1223		BB	
	12.068			461		BB	
	12.558			193		BB	
	12.734			160		BV	
	12.839			127		VB	
	13.510			205		BB	
PCB016	14.184	-0.08	4.422E-04-	582		BB	1
	14.762			662		BV	
	14.963			1310		VB	
	15.257			1441		BV	
	15.410			807		VB	
PCB016	15.782	-0.28	1.289E-03-	1305		BB	1

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	16.175			380	BB	
PCB016	16.458	0.19	5.087E-04-	415	BB	1
	16.737			1262	BV	
	16.923			1004	VV	
	17.136			5900	VB	
	17.339			5459	BV	
	17.455			3185	VV	
	17.646			1320	VV	
	17.804			749	VV	
	17.960			1045	VV	
	18.052			1293	VV	
	18.274			723	VV	
PCB016	18.498	-0.04	0.01800	4186	VV	1
	18.665			1947	VV	
	18.906			1762	VV	
PCB016	19.021	-0.04	0.01490	2220	VV	1
	19.224			677	VV	
	19.354			2126	VV	
	19.470			1473	VV	
PCB254	19.584	0.50	0.02417	5105	VB	2
	19.845			4309	BB	
	20.165			34423	BV	
	20.276			9558	VB	
PCB254	20.428	0.05	0.05080	18219	BB	2
PCB254	20.733	0.38	0.09197	15577	BV	2
	20.832			11660	VV	
	20.996			2893	VB	
	21.232			816	BB	
	21.422			885	BV	
	21.548			9966	VV	
	21.858			9727	VV	
PCB254	22.117	0.40	0.06234	16446	VV	2
	22.399			9082	VV	
PCB260	22.560	-0.13	0.1642	45496	VB	3
	22.843			6937	BV	
	22.923			5819	VV	
	23.041			29043	VV	
	23.268			21730	VV	
PCB260	23.615	-0.49	0.05455	35277	VE	3
	23.775			3850	EV	
	23.975			2949	EV	
	24.197			3636	VE	
	24.316			771	EV	
PCB260	24.426	-0.38	0.03649	9137	VE	3
	24.554			560	EV	
PCB254	24.771	-0.03	0.05480	10882	VV	2
	24.966			16292	VV	
	25.151			16251	VV	
	25.367			40466	VE	
PCB260	25.492	-0.12	9.437E-03	4585	EV	3
	25.612			861	EV	
PCB260	25.772	-0.93	0.01938	4799	VV	3
	25.925			3465	VV	
	26.041			1202	VV	
	26.200			1014	VV	
	26.306			761	VB	
	26.572			123	BB	
	26.819			249	BV	
	26.941			4067	VV	
	27.098			12827	VV	

	27.204			6198	VV
DBUCLE	27.360	1.30	~~4.639E-03~~ 1.5463 TG 11/18/97	4828	VV
	27.480			10060	VE
	27.614			1299	EV
	27.736			759	EV
	27.933			992	VB
	28.251			475	BB
	28.457			117	BB
	28.700			105	BB
	28.915			159	BB
	29.151			1203	BV
	29.258			1108	VV
	29.385			811	VV
	29.565			4351	VB
	30.059			235	BB
	30.437			2359	BB
	31.927			282	BV
	32.097			580	VB
	34.431			237	BB
	36.843			1185	BB

GROUP REPORT

Group	UG/SAMPLE
1	3.514E-02
2	0.2841 x333.3333 = 94.70
3	0.2840

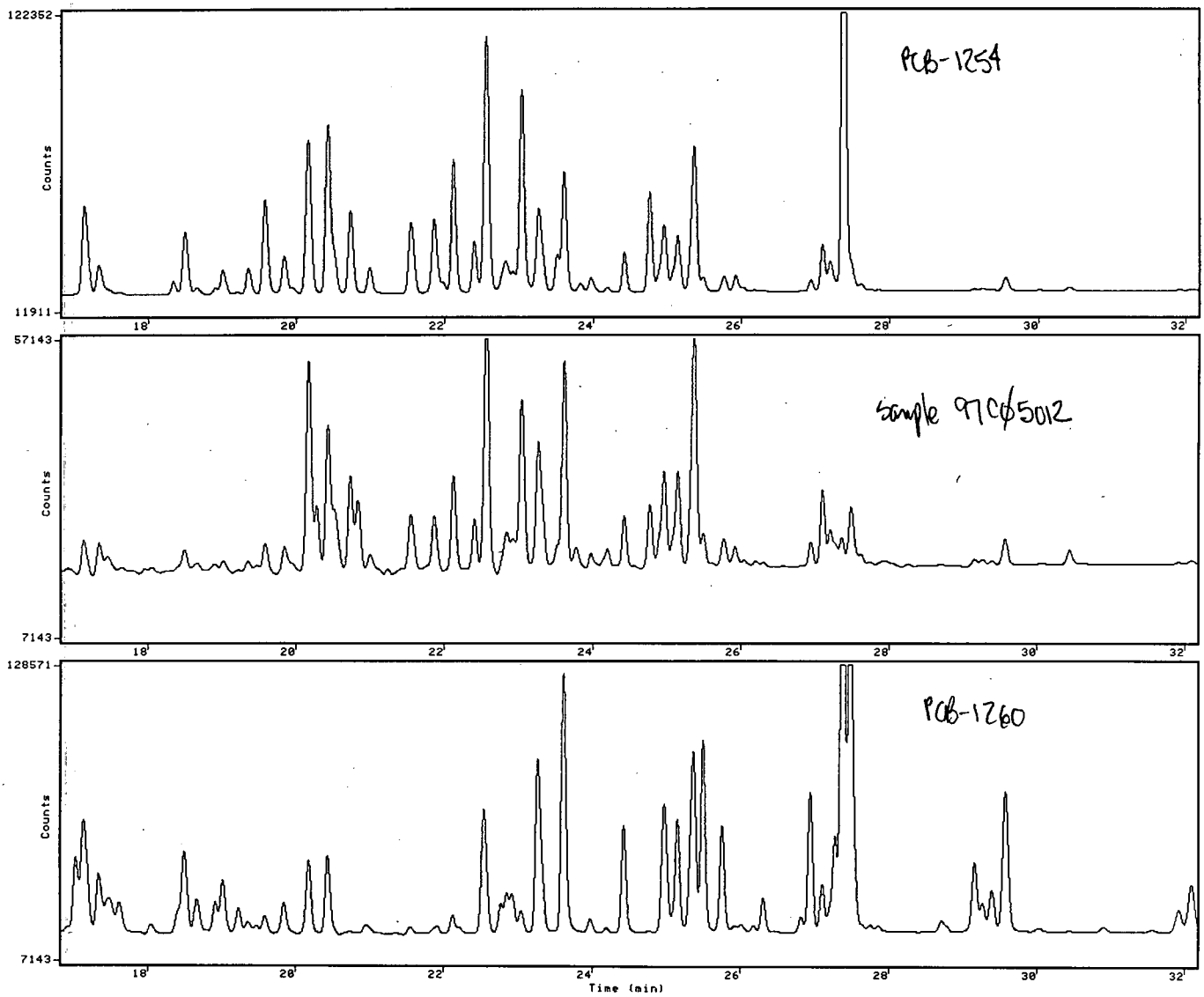
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 18:12:18.96

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316065	16.81	32.20	7143	57143	1
8397316064	16.81	32.20	7143	128571	1

best match= PCB-1254



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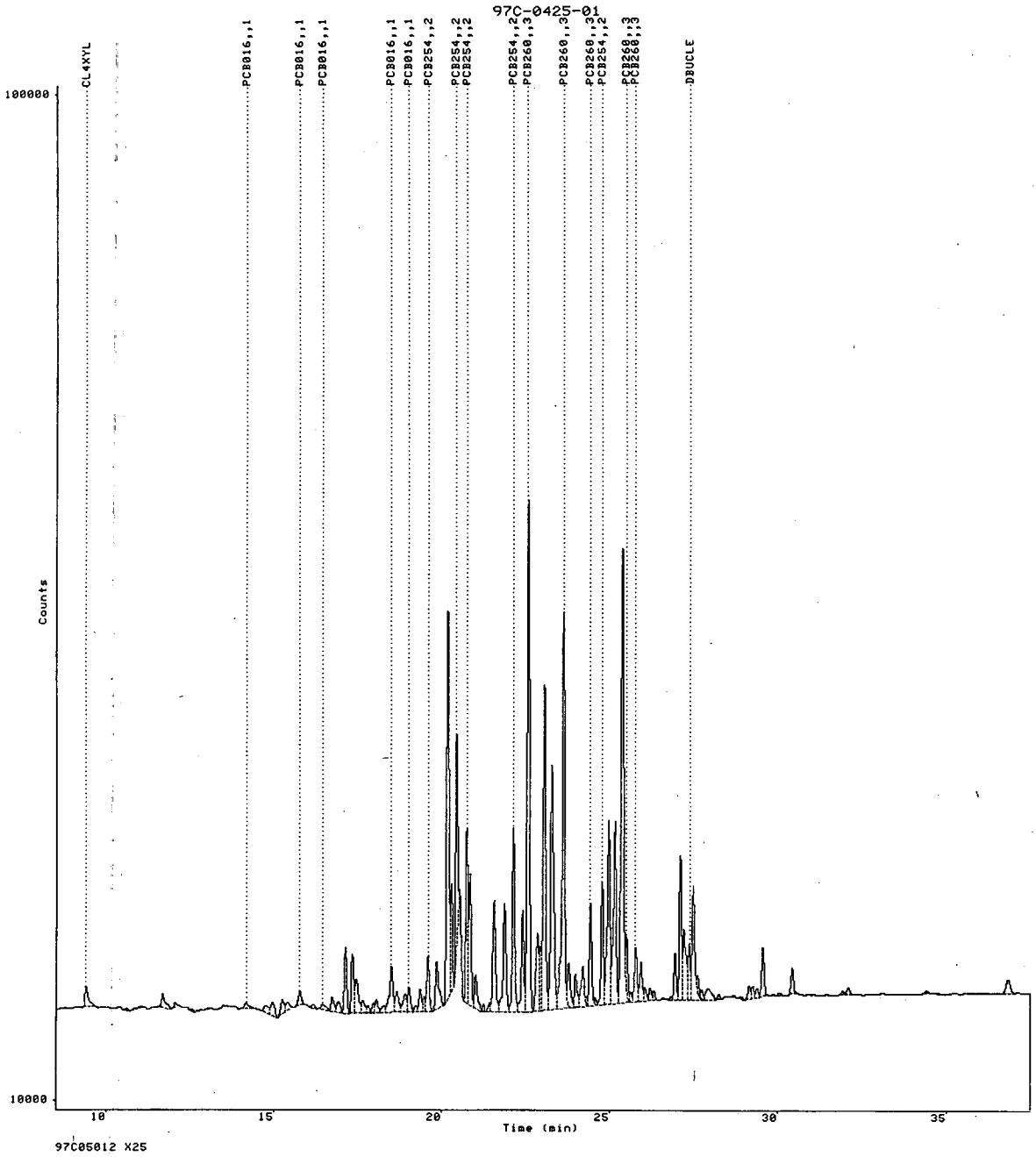
Data file: DISK:[TAYLORC]8397316065.RAW;1
Report: 1197251549
Acquired: 16-NOV-1997 09:14:17
Time range: 8.50-37.50



Date.....18-NOV-1997 15:59:55.31 User: TAYLORC
Report number.....1197251550
Raw file.....DISK:[TAYLORC]8397316066.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 09:54:33
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05013 X250
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.18	PCB016	1		
15.78	PCB016	1		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	9.400	-1.48	~~3.822E-05-~~ .01273 11/18/97	148			BB	
	12.560			276			BB	
	14.754			225			BB	
	15.240			345			BB	
	15.957			348			BB	
PCB016	16.456	0.30	-8.569E-04-	108			BB	1
	17.136			8001			BB	

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	17.338			2601	BB	
	17.649			93	BB	
PCB016	18.500	-0.18	0.01071	2638	BE	1
	18.668			534	EB	
	18.915			302	BV	
PCB016	19.021	-0.08	0.01409	2115	VB	1
	19.362			1246	BV	
PCB254	19.584	0.50	0.05066	10159	VV	2
	19.841			5013	VE	
	19.952			510	EV	
	20.166			27405	VV	
PCB254	20.427	0.12	0.1054	35449	VV	2
PCB254	20.733	0.36	0.1296	21176	VE	2
	20.994			2821	EB	
	21.361			191	BV	
	21.550			8888	VV	
	21.856			14235	VV	
PCB254	22.117	0.40	0.08921	23054	VV	2
	22.400			11211	VV	
PCB260	22.561	-0.15	0.2139	56541	VV	3
	22.830			7185	VV	
	22.925			4945	VV	
	23.042			45726	VV	
	23.268			23661	VV	
	23.526			5521	VV	
PCB260	23.615	-0.45	0.06097	39115	VE	3
	23.836			1064	EV	
	23.974			3146	EV	
	24.198			1033	VB	
PCB260	24.428	-0.46	0.03848	9625	BB	3
PCB254	24.770	-0.02	0.08266	16098	BV	2
	24.963			17511	VV	
	25.152			16183	VV	
	25.366			44615	VE	
PCB260	25.491	-0.07	6.361E-03	3100	EV	3
	25.612			867	EV	
PCB260	25.777	-1.26	0.01756	4346	VV	3
	25.927			3976	VV	
	26.022			2445	VV	
	26.203			889	VV	
	26.312			446	VB	
	26.821			86	BV	
	26.941			3389	VV	
	27.098			14791	VV	
	27.205		2.2610 [illegible]	7620	VV	
DBUCLE	27.481	-5.97	~~6.783E-03~~	7754	VV	
	27.615			2029	VV	
	27.726			613	VV	
	27.924			813	VB	
	28.254			440	BB	
	28.455			183	BB	
	29.151			348	BV	
	29.259			736	VV	
	29.384			229	VB	
	29.567			4200	BB	
	30.039			138	BB	
	30.535			182	BB	
	31.928			96	BV	
	32.096			257	VB	
	34.427			62	BB	

GROUP REPORT

Group	UG/SAMPLE
1	2.394E-02
2	0.4575 x 333.3333 = 152.5
3	0.3373

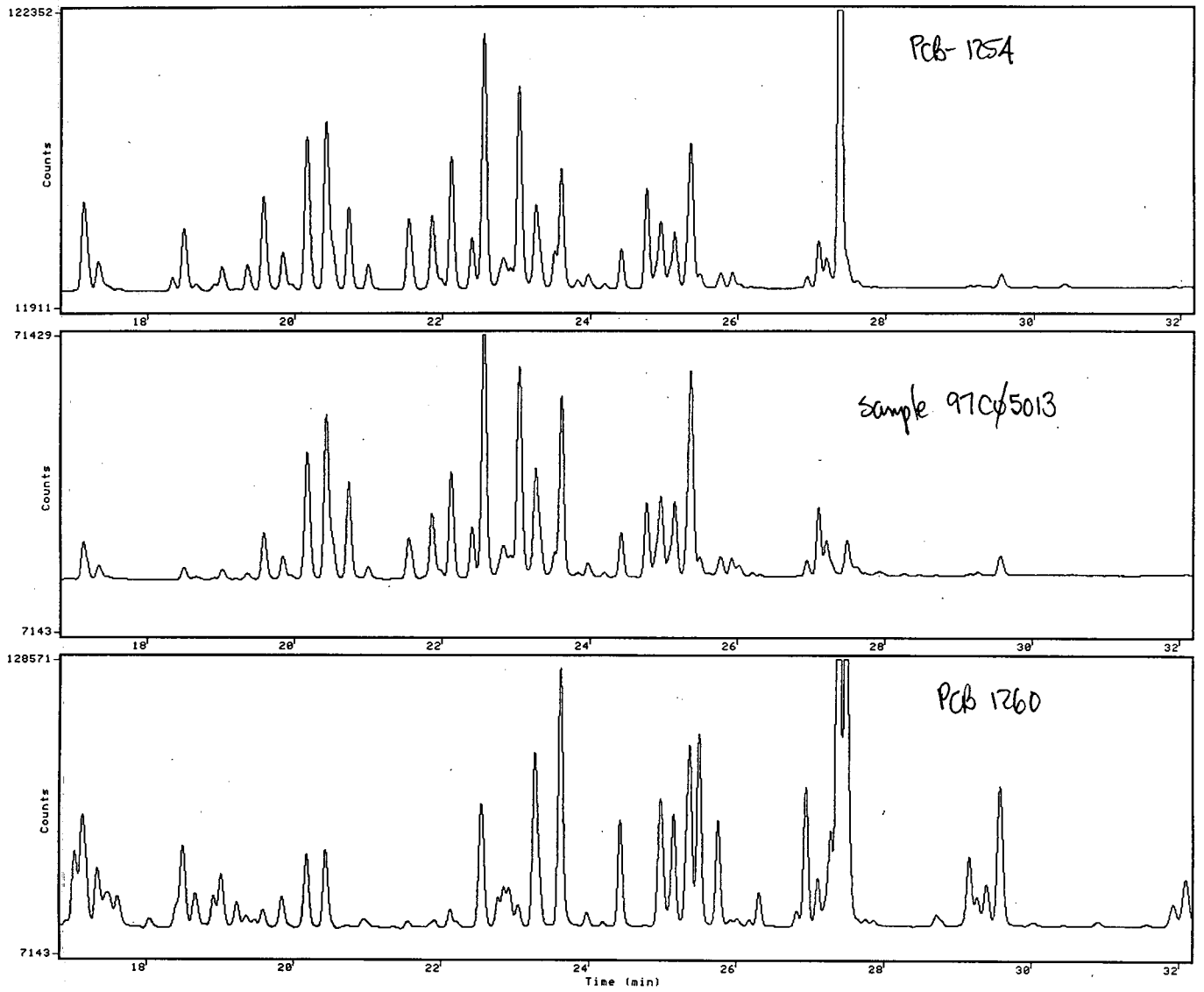
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 18:15:43.93

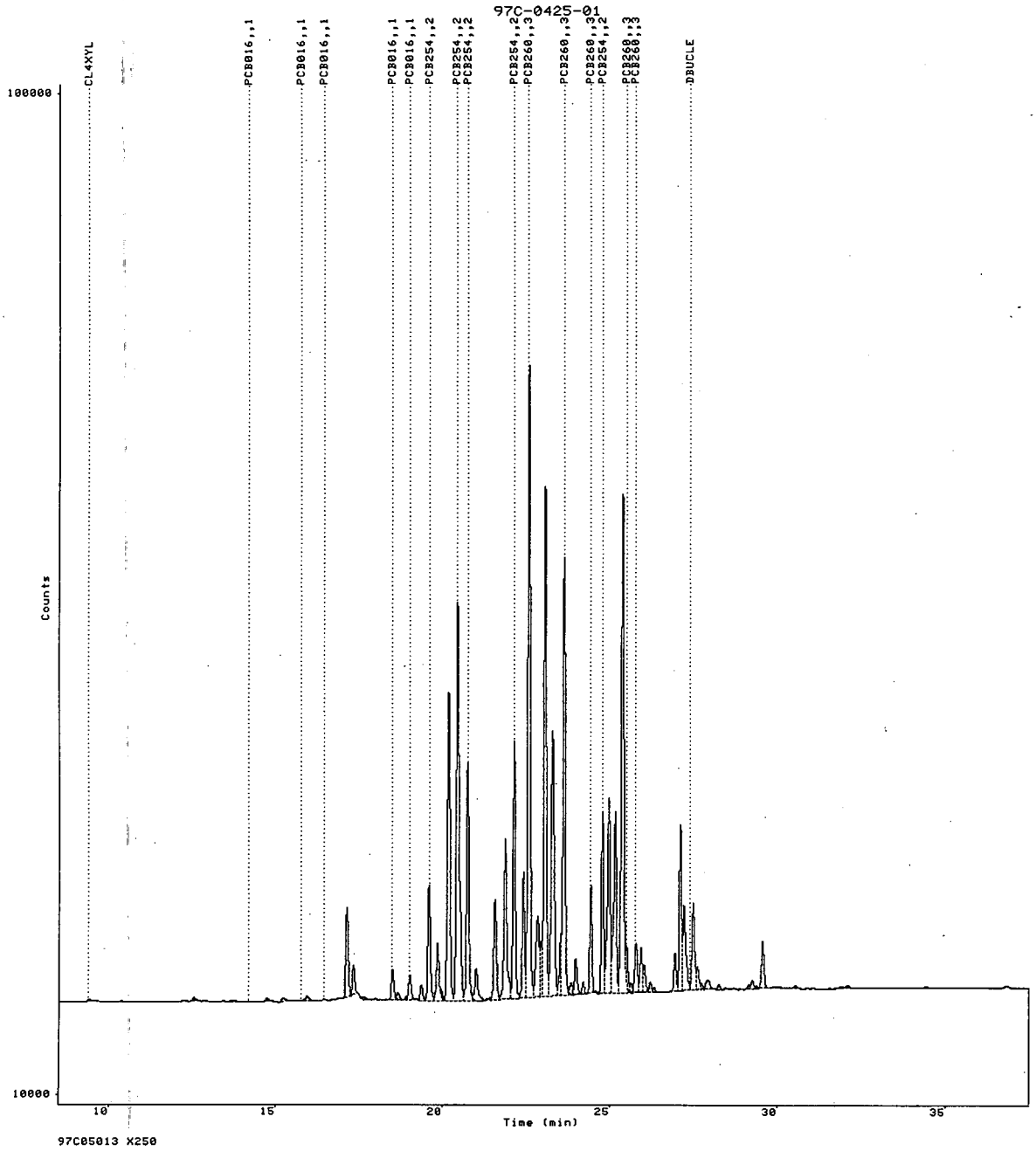
Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316066	16.81	32.20	7143	71429	1
8397316064	16.81	32.20	7143	128571	1

best match= PCB-1254



0477

Data file: DISK:[TAYLORC]8397316066.RAW;1
Report: 1197251550
Acquired: 16-NOV-1997 09:54:33
Time range: 8.50-37.50



0478

Date.....18-NOV-1997 15:59:59.79 User: TAYLORC
Report number.....1197251551
Raw file.....DISK:[TAYLORC]8397316067.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 10:34:47
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05015 X100
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
length.....30 M
diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

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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	9.400	-1.49	~~4.183E-04-~~ 0.13943 11/18/97	495		BB	
	10.401			140		BB	
	10.596			185		BB	
	11.047			205		BB	
	11.690			340		BB	
	12.073			976		BB	
	12.742			210		BV	
	12.843			166		VB	
	13.029			82		BB	
	13.514			159		BB	
PCB016	14.129	3.25	-1.095E-03-	189		BV	1
	14.336			256		VB	
	14.877			966		BB	
	15.338			581		BB	
PCB016	15.873	-5.76	-1.359E-03-	136		BB	1

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PCB016	16.527	-3.97	-2.167E-04-	252	BV	1
	16.882			724	VB	
	17.142			1061	BB	
	17.404			564	BB	
	17.946			413	BB	
	18.344			356	BV	
PCB016	18.505	-0.47	-3.327E-04-	262	VB	1
PCB016	19.021	-0.06	3.368E-03	718	BB	1
	19.233			473	BV	
	19.428			650	VV	
PCB254	19.576	0.97	3.557E-03	1030	VB	2
	19.827			457	BV	
	19.996			575	VB	
	20.173			1520	BV	
	20.281			924	VV	
PCB254	20.428	0.06	1.590E-03-	1471	VV	2
	20.523			640	VB	
~~PCB254~~ 11/18/97 do not use.	20.738	0.03	-3.889E-06-	395	BV	2
	20.835			484	VB	
	20.997			173	BB	
	21.235			858	BV	
	21.428			1903	VV	
	21.546			1442	VV	
	21.716			1428	VV	
	21.877			2056	VV	
PCB254	22.114	0.61	6.315E-03	1939	VV	2
	22.385			1901	VV	
PCB260	22.564	-0.39	0.01219	4145	VB	3
	22.857			473	BB	
	23.039			1648	BB	
	23.275			1161	BB	
PCB260	23.616	-0.55	1.636E-03-	1934	BB	3
	24.197			1412	BV	
PCB260	24.430	-0.58	1.429E-03-	367	VB	3
PCB254	24.769	0.04	2.423E-03-	720	BV	2
	24.970			938	VV	
	25.153			933	VB	
	25.378			3350	BE	
PCB260	25.495	-0.29	8.804E-04-	437	EB	3
PCB260	25.764	-0.48	1.170E-03-	208	BB	3
	26.017			1999	BE	
	26.200			188	EB	
	26.938			270	BV	
	27.101			665	VV	
	27.270			1053	VV	
DBUCLE	27.369	0.79	~~1.806E-03-~~ 0.6020 11/18/97	951	VV	
	27.480			986	VB	
	28.029			732	BB	
	28.265			151	BB	
	28.504			114	BB	
	28.902			267	BB	
	29.161			162	BB	
	29.405			223	BB	
	29.876			218	BB	
	36.847			292	BB	

GROUP REPORT

Group UG/SAMPLE

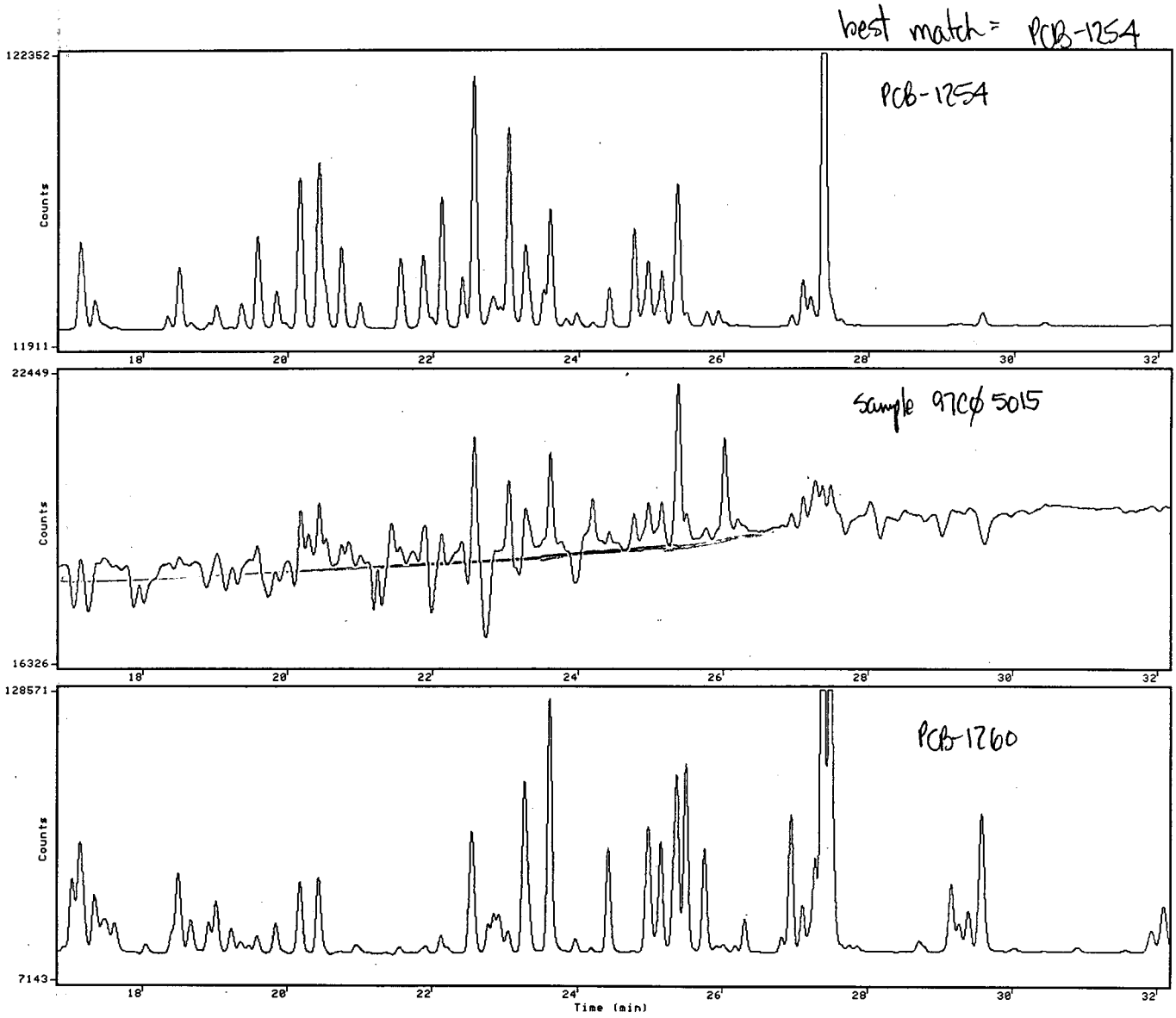
1	3.636E-04
2	~~1.388E-02~~ 26 11/8/97 .013885 x 333.3333 = 4.6283 x 5/4 = 5.785
3	1.730E-02

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

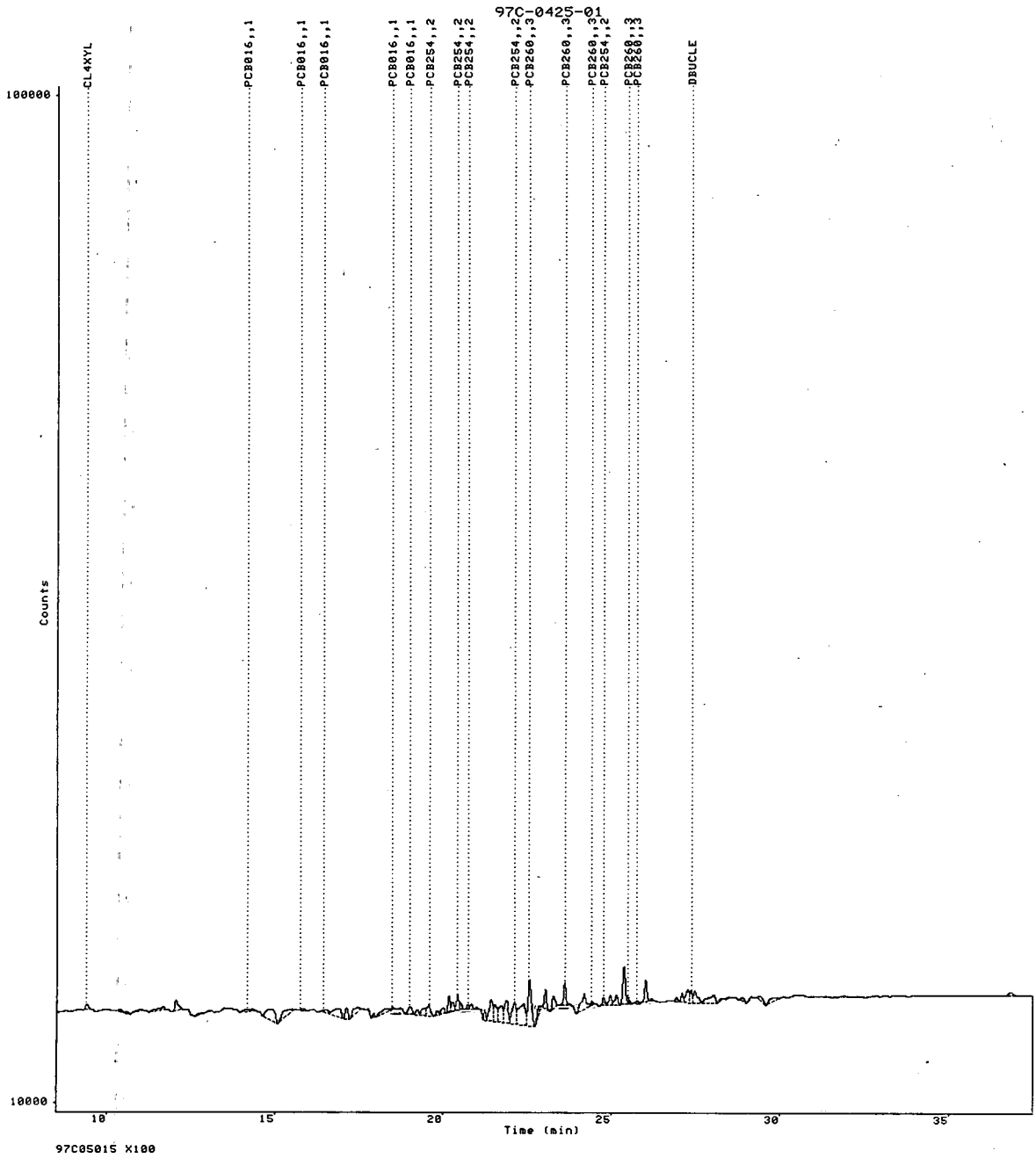
Date: 18-NOV-1997 18:20:58.96

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316067	16.81	32.20	16326	22449	1
8397316064	16.81	32.20	7143	128571	1



0482

Data file: DISK:[TAYLORC]8397316067.RAW;1
Report: 1197251551
Acquired: 16-NOV-1997 10:34:47
Time range: 8.50-37.50



0483

Date.....18-NOV-1997 16:00:04.20 User: TAYLORC
Report number.....1197251552
Raw file.....DISK:[TAYLORC]8397316068.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....4

Acq. date.....16-NOV-1997 11:15:06
Acq. run time.....37.50 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05016 X100
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....37.501 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....78
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.398	-1.41	~~3.613E-04~~ 0.120433 11/18/97	443		BB	
	11.048			5408		BB	
	11.696			498		BB	
	12.060			144		BV	
	12.239			139		VV	
	12.331			170		VV	
	12.560			706		VB	
	13.851			257		BB	
PCB016	14.185	-0.11	6.611E-03	2149		BB	1
	14.657			1695		BV	
	14.969			389		VV	
	15.109			515		VV	
	15.256			3900		VV	
	15.407			2631		VV	
PCB016	15.781	-0.23	6.926E-03	3778		VE	1

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	15.955			301	EV	
	16.173			402	VB	
PCB016	16.459	0.09	1.904E-03-	728	BV	1
	16.583			285	VV	
	16.736			3787	VV	
	16.919			2097	VV	
	17.137			15578	VV	
	17.339			15122	VV	
	17.452			8647	VE	
	17.647			974	EB	
	18.031			1738	BB	
PCB016	18.500	-0.20	0.05029	10843	BV	1
	18.670			4124	VE	
	18.801			687	EV	
	18.917			4976	VV	
PCB016	19.021	-0.05	0.03496	4799	VE	1
	19.214			896	EV	
	19.359			2563	VV	
PCB254	19.585	0.39	0.04684	9443	VV	2
	19.842			10269	VV	
	20.167			24521	VV	
PCB254	20.430	-0.07	0.05131	18387	VV	2
PCB254	20.734	0.31	0.07219	12493	VV	2
	20.996			4936	VB	
	21.309			399	BV	
	21.550			9410	VV	
	21.860			8031	VV	
PCB254	22.120	0.26	0.04105	11049	VV	2
	22.401			5305	VV	
PCB260	22.562	-0.23	0.1188	34356	VV	3
	22.829			4632	VV	
	22.926			3361	VV	
	23.044			23798	VV	
	23.270			11863	VV	
	23.525			3165	VV	
PCB260	23.615	-0.50	0.02593	17620	VE	3
	23.790			790	EV	
	23.977			1754	VV	
	24.195			1345	VV	
PCB260	24.426	-0.35	0.01474	3739	VV	3
PCB254	24.770	0.01	0.03530	7153	VV	2
	24.966			7710	VV	
	25.151			8233	VV	
	25.369			17838	VE	
PCB260	25.493	-0.18	3.770E-03-	1844	EB	3
PCB260	25.773	-1.01	8.612E-03	2097	BV	3
	25.928			1490	VB	
	26.182			388	BV	
	26.308			293	VB	
	26.824			176	BV	
	26.941			1614	VV	
	27.099			5415	VV	
	27.204			3172	VE	
DBUCLE	27.374	0.46	~~1.448E-03~~ 0.48266 11/18/97	461	EV	
	27.479			4140	VE	
	27.618			529	EB	
	29.151			412	BV	
	29.249			487	VB	
	29.396			408	BV	
	29.567			2286	VB	

30.437	752	BB
32.097	192	BB
36.842	278	BB

GROUP REPORT

Group	UG/SAMPLE
1	0.1007
2	0.2467 x 333.3333 = 82.233
3	0.1719

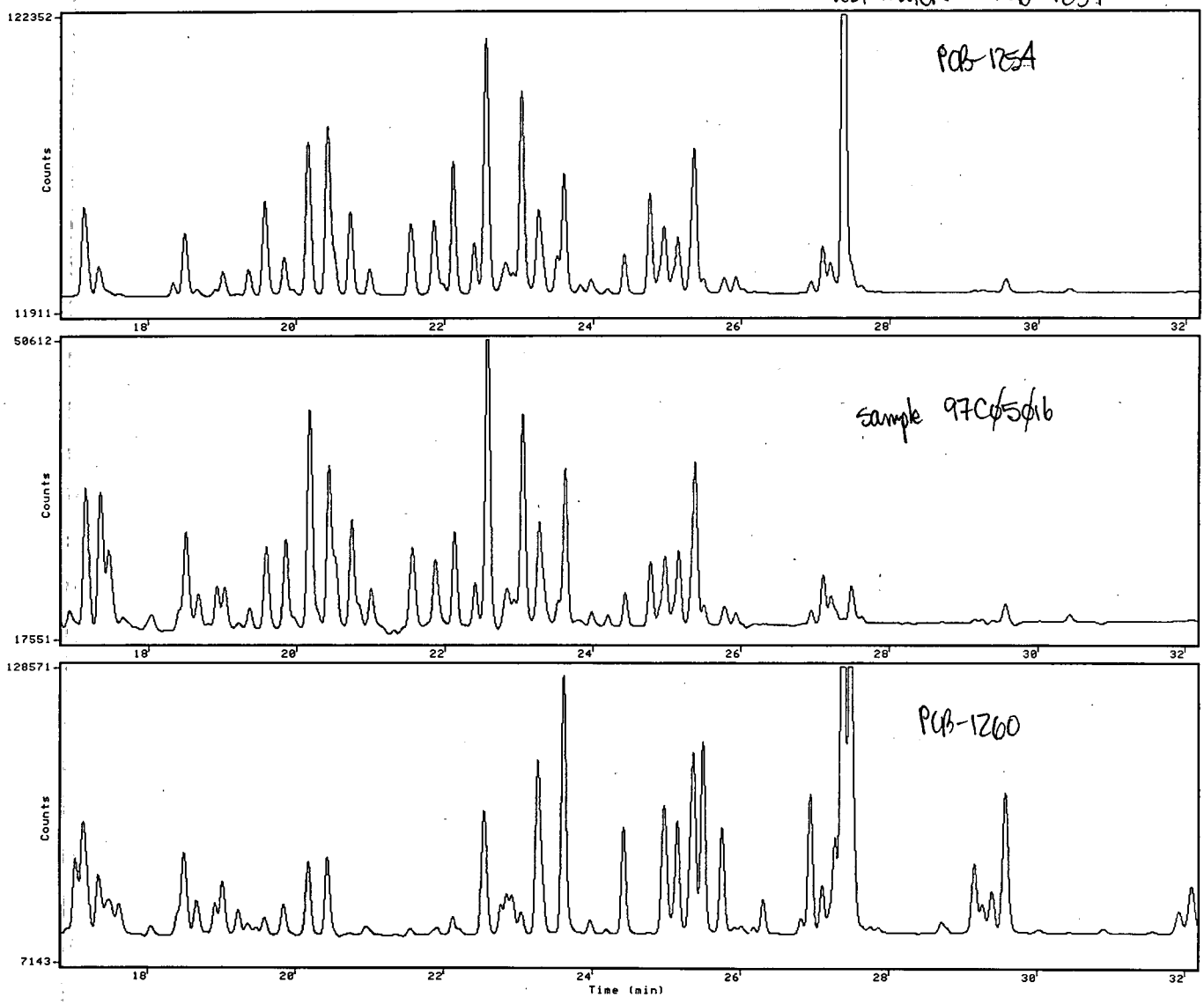
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 18:23:45.66

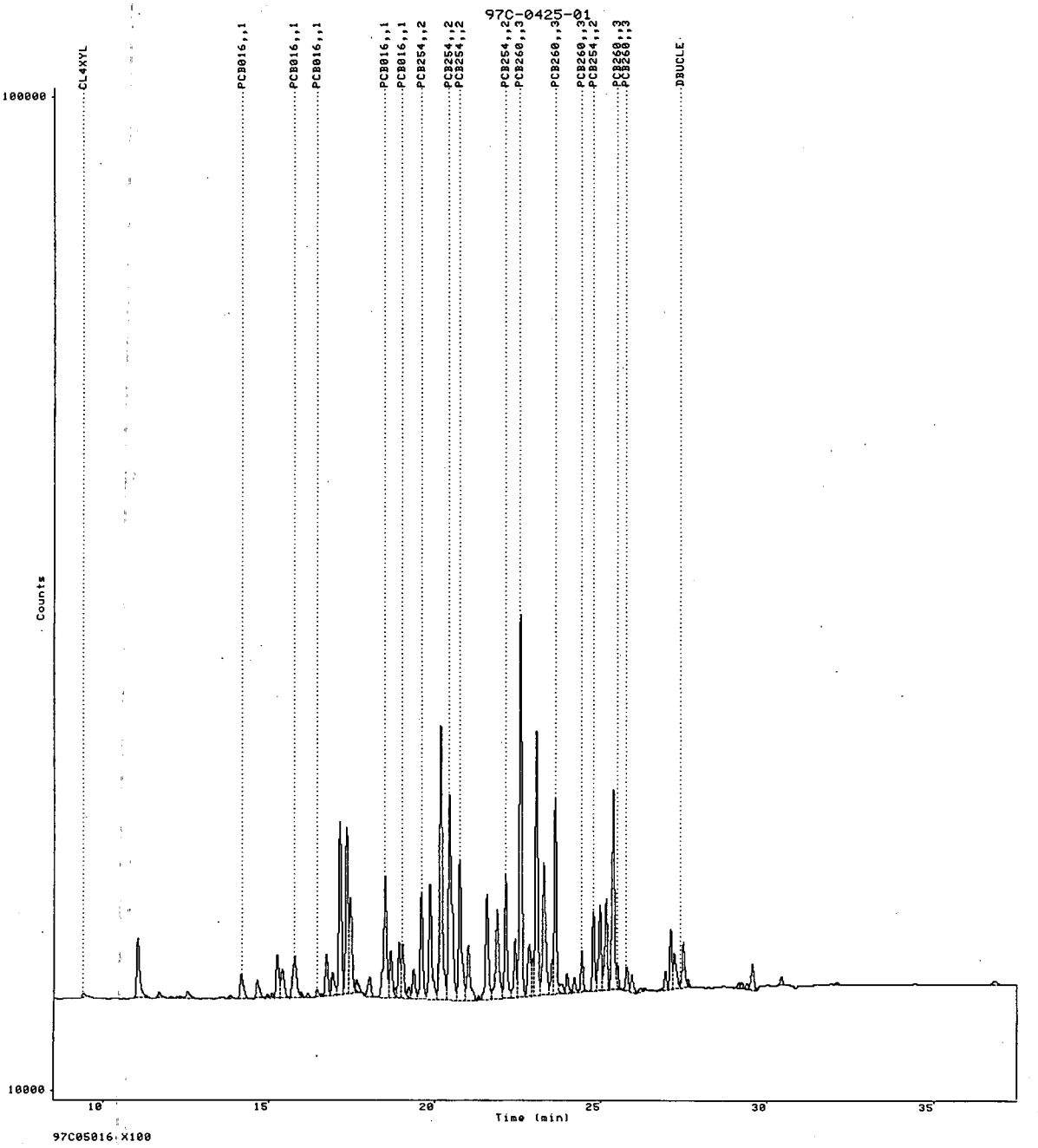
Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316068	16.79	32.20	17551	50612	1
8397316064	16.81	32.20	7143	128571	1

best match = PCB-1254



0487

Data file: DISK:[TAYLORC]8397316068.RAW;1
Report: 1197251552
Acquired: 16-NOV-1997 11:15:06
Time range: 8.50-37.50



0488

Date.....18-NOV-1997 16:00:10.02 User: TAYLORC
Report number.....1197251553
Raw file.....DISK:[TAYLORC]8397316069.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....16-NOV-1997 11:55:22
Acq. run time.....35.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05018 X200
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....35.001 min Delay time.....9.200 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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

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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	9.399	-1.46	~~7.983E-05-~~ 0.0266	186		BB	
	11.694			347		BB	
	12.560			49		BB	
PCB016	14.186	-0.19	-1.146E-03-	176		BB	1
	14.656			189		BB	
	14.971			232		BB	
	15.256			511		BV	
	15.405			278		VB	
PCB016	15.782	-0.28	-3.705E-04-	573		BB	1
	16.173			130		BB	
PCB016	16.456	0.32	-9.191E-04-	94		BB	
	16.737			878		BV	
	16.922			430		VV	
	17.136			4850		VV	
	17.338			4418		VV	

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	17.455			2606	VE	
	17.650			379	EV	
	17.843			177	VV	
	18.024			529	VB	
PCB016	18.500	-0.17	0.01204	2921	BV	1
	18.670			1041	VB	
	18.917			1034	BV	
PCB016	19.020	-0.02	6.297E-03	1101	VB	1
	19.353			700	BB	
PCB254	19.586	0.35	0.01217	2749	BB	2
	19.844			3028	BV	
	20.166			12424	VE	
	20.272			1088	EV	
PCB254	20.430	-0.05	0.02623	10003	VV	2
PCB254	20.734	0.32	0.03537	6488	VV	2
	20.829			2365	VV	
	20.995			1509	VB	
	21.550			3986	BV	
	21.858			3999	VV	
PCB254	22.120	0.22	0.02102	5843	VB	2
	22.400			2692	BV	
PCB260	22.562	-0.26	0.05650	17382	VV	3
	22.834			2103	VV	
	22.926			1599	VV	
	23.044			12365	VV	
	23.268			6933	VV	
	23.523			1506	VV	
PCB260	23.617	-0.62	0.01492	10589	VE	3
	23.777			597	EV	
	23.976			855	VB	
	24.196			581	BB	
PCB260	24.428	-0.46	8.793E-03	2239	BB	3
PCB254	24.770	-0.02	0.01780	3752	BV	2
	24.966			4770	VV	
	25.152			4661	VV	
	25.369			11551	VE	
PCB260	25.492	-0.14	2.086E-03-	1025	EB	3
PCB260	25.774	-1.08	4.687E-03	1103	BV	3
	25.928			748	VB	
	26.185			460	BB	
	26.942			899	BV	
	27.099			3343	VV	
	27.204			1754	VE	
DBUCLE	27.372	0.60	~~1.258E-03~~ 0.41933 11/18/97	200	EV	
	27.480			2310	VE	
	27.617			278	EB	
	29.151			155	BV	
	29.259			180	VB	
	29.568			1217	BB	
	30.438			519	BB	
	32.097			89	BB	

GROUP REPORT

Group	UG/SAMPLE
1	1.590E-02
2	0.1126 X 333.3333 = 37.533
3	8.699E-02

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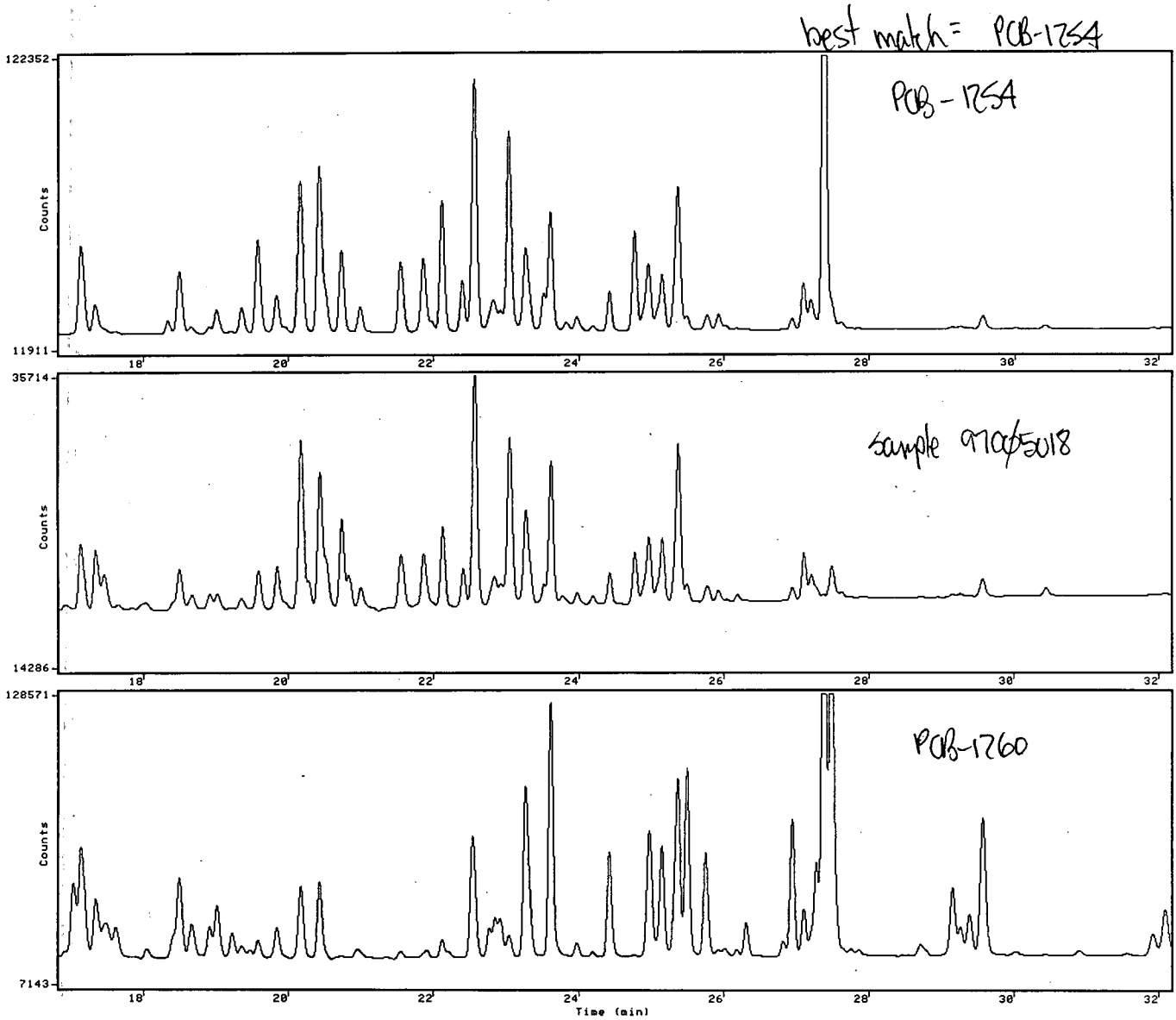
ANALYSIS NOTES

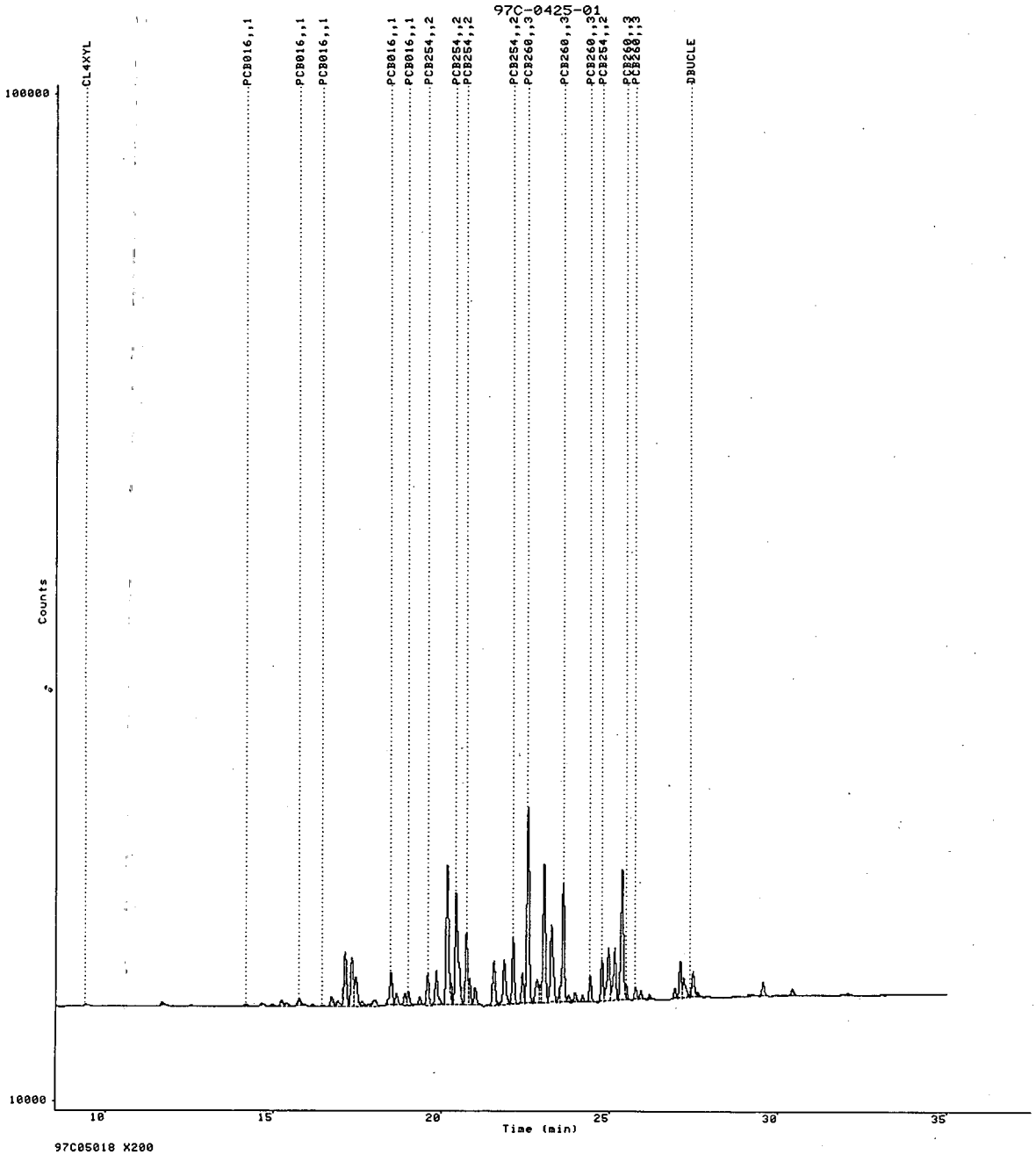
1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 18:27:37.91

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316069	16.81	32.20	14286	35714	1
8397316064	16.81	32.20	7143	128571	1



Data file: DISK:[TAYLORC]8397316069.RAW;1
Report: 1197251553
Acquired: 16-NOV-1997 11:55:22
Time range: 8.50-37.50



Date.....18-NOV-1997 16:00:14.81 User: TAYLORC
Report number.....1197251554
Raw file.....DISK:[TAYLORC]8397316070.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....16-NOV-1997 12:35:39
Acq. run time.....35.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05017 X50
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....35.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....89
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

==========
EXTERNAL STANDARD ANALYSIS
==========
Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.399	-1.45	~~1.327E-03-~~ 0.44233 11/18/97	1324		BB	
	11.050			1377		BB	
	11.697			928		BB	
	12.067			231		BB	
	12.560			378		BB	
	13.612			125		BB	
	13.852			399		BB	
PCB016	14.188	-0.28	2.962E-03-	1224		BB	1
	14.657			2004		BV	
	14.970			910		VV	
	15.105			480		VV	
	15.257			2838		VV	
	15.404			1880		VV	
PCB016	15.783	-0.34	5.351E-03	3089		VE	1
	15.961			442		EV	

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	16.171			864	VB	
PCB016	16.457	0.25	9.140E-04-	506	BB	1
	16.736			4180	BV	
	16.921			2466	VV	
	17.136			16868	VV	
	17.338			17220	VV	
	17.454			11806	VE	
	17.649			1516	EV	
	17.840			741	VV	
	18.025			2419	VE	
	18.277			176	EV	
PCB016	18.500	-0.17	0.05193	11172	VV	1
	18.669			5120	VV	
	18.917			5654	VV	
PCB016	19.021	-0.04	0.03708	5069	VE	1
	19.207			849	EV	
	19.354			3361	VE	
	19.471			686	EV	
PCB254	19.586	0.39	0.05608	11167	VV	2
	19.844			12292	VV	
	20.166			37558	VE	
	20.273			4274	EV	
PCB254	20.430	-0.09	0.08130	28022	VV	2
PCB254	20.734	0.32	0.1157	19140	VV	2
	20.832			8947	VV	
	20.997			6127	VB	
	21.416			542	BV	
	21.550			12167	VV	
	21.861			12067	VV	
PCB254	22.120	0.25	0.06520	17161	VV	2
	22.402			8304	VV	
PCB260	22.561	-0.18	0.1830	49821	VV	3
	22.833			6975	VV	
	22.927			5242	VV	
	23.044			38267	VV	
	23.269			19830	VV	
	23.526			4843	VV	
PCB260	23.616	-0.54	0.04716	30803	VE	3
	23.777			2159	EV	
	23.978			2838	VV	
	24.197			2647	VE	
	24.315			161	EV	
PCB260	24.428	-0.51	0.02895	7282	VB	3
PCB254	24.771	-0.05	0.06418	12654	BV	2
	24.967			14002	VV	
	25.153			14908	VV	
	25.368			33787	VE	
PCB260	25.494	-0.22	7.082E-03	3449	EB	3
PCB260	25.776	-1.22	0.01555	3842	BV	3
	25.930			2712	VE	
	26.034			321	EB	
	26.189			635	BV	
	26.308			482	VB	
	26.824			186	BV	
	26.942			3072	VV	
	27.099			10681	VV	
	27.206			6001	VE	
DBUCLE	27.375	0.43	~~1.947E-03~~ 0.6490 - TK 11/18/97	1145	EV	
	27.481			8060	VE	
	27.620			991	EB	

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27.929	244	BB
28.241	188	BB
28.439	241	BV
28.707	154	VB
29.152	714	BV
29.257	783	VV
29.390	481	VV
29.568	4018	VB
30.036	121	BB
30.441	4539	BB
30.932	61	BB
31.928	172	BV
32.099	435	VB
34.434	136	BB

GROUP REPORT

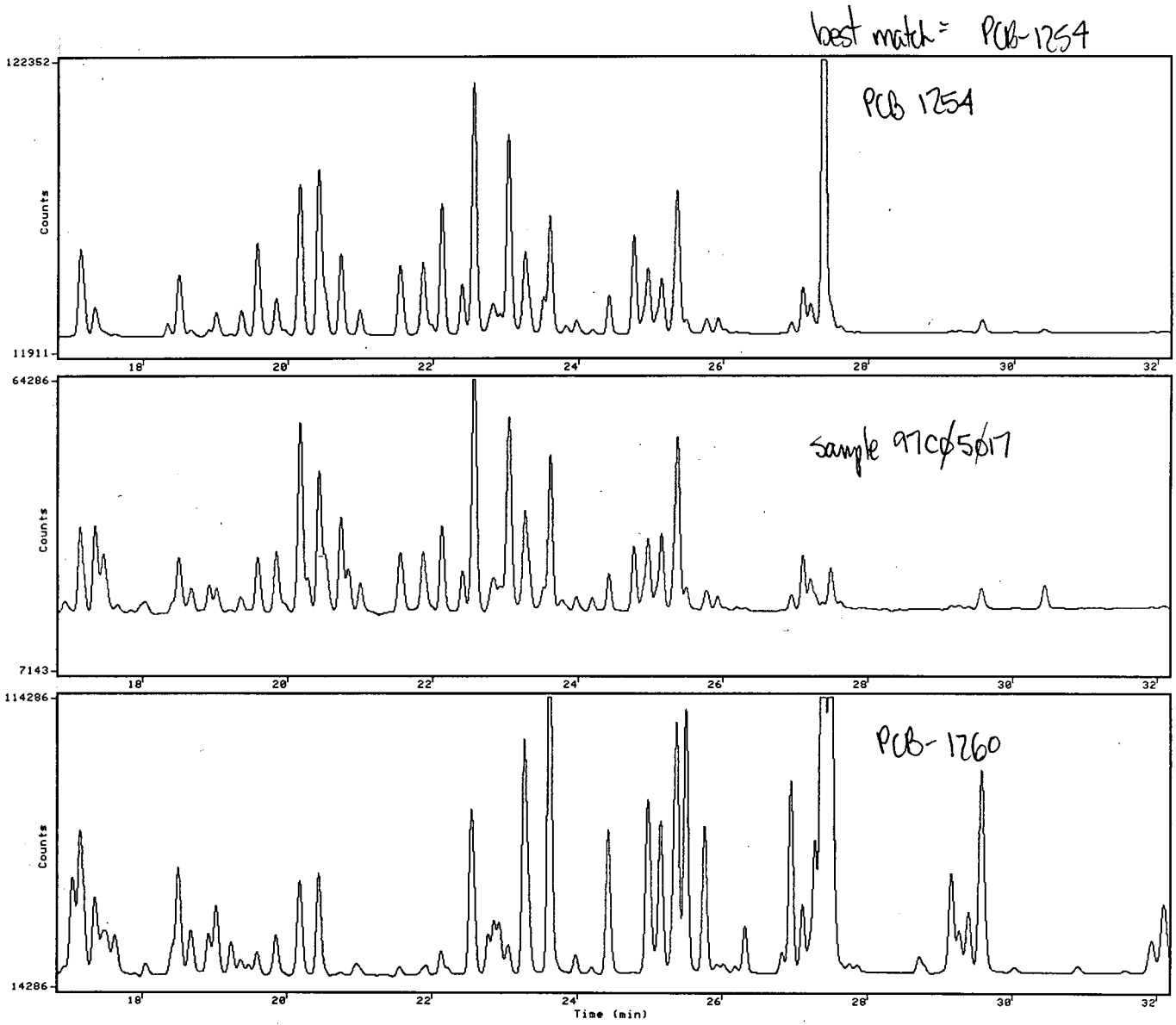
Group	UG/SAMPLE			
1	9.824E-02		32.75	1637.33
2	0.3824	X 333.3333 =	127.5	6373.33
3	0.2817		93.90	4695.00

ANALYSIS NOTES

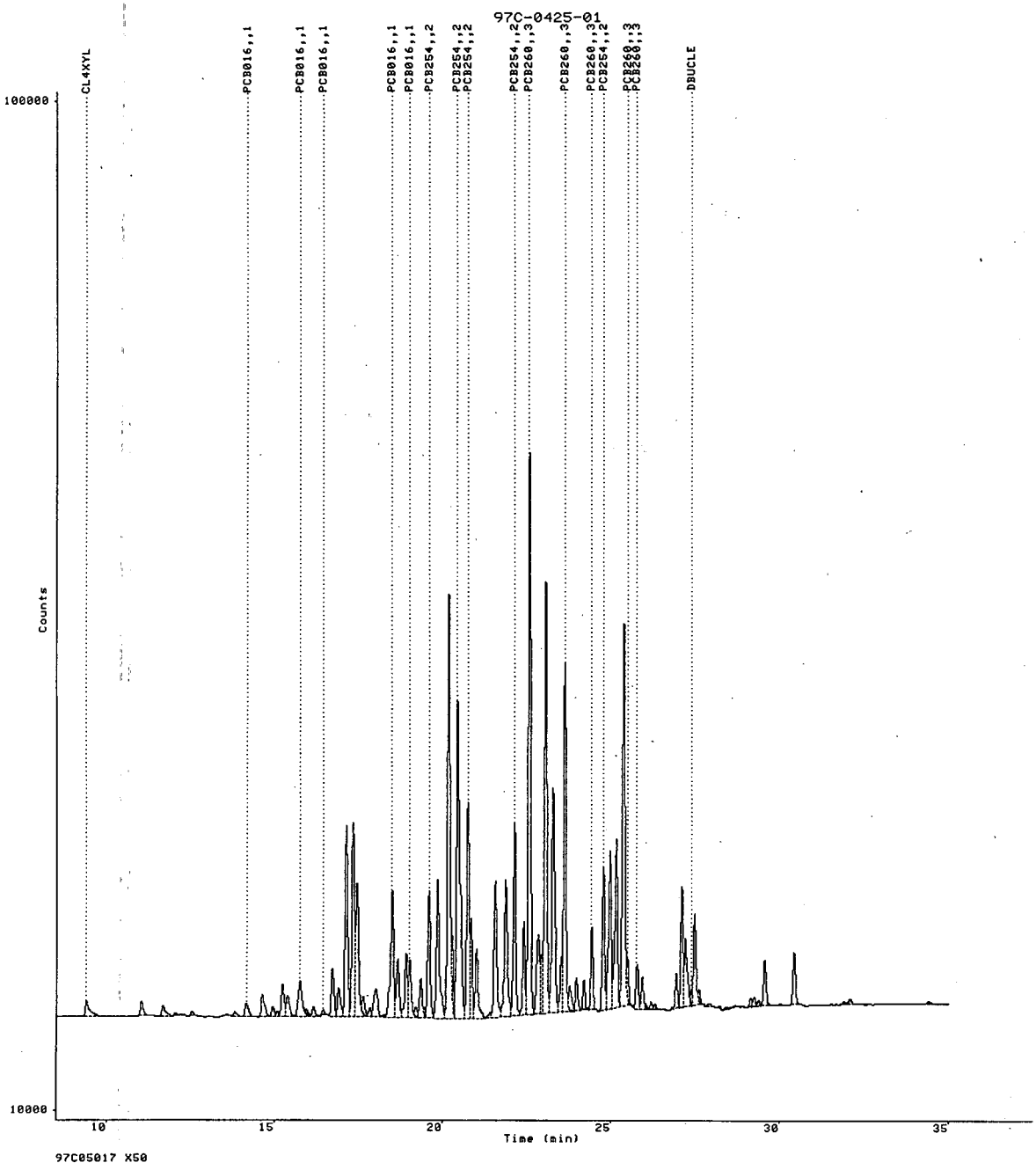
1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 18:32:54.51

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316070	16.81	32.20	7143	64286	1
8397316075	16.81	32.20	14286	114286	1



Data file: DISK:[TAYLORC]8397316070.RAW;1
Report: 1197251554
Acquired: 16-NOV-1997 12:35:39
Time range: 8.50-37.50



Date.....18-NOV-1997 16:00:20.23 User: TAYLORC
Report number.....1197251555
Raw file.....DISK:[TAYLORC]8397316071.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....16-NOV-1997 13:15:54
Acq. run time.....35.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05017MS X50
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....35.000 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....90
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 TH 11/18/97

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EXTERNAL STANDARD ANALYSIS
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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.403	-1.67	~~1.077E-03~~ 0.359	1096		BB	
	11.048			1836		BB	
	11.699		TH 11/18/97	802		BB	
	12.068			301		BB	
	12.338			270		BV	
	12.562			424		VB	
	13.616			110		BB	
	13.855			392		BB	
PCB016	14.189	-0.35	5.737E-03	1928		BB	1
	14.660			1739		BV	
	14.972			787		VV	
	15.107			523		VV	
	15.258			2936		VV	
	15.413			2050		VV	
PCB016	15.782	-0.28	8.390E-03	4417		VE	1

0499

	15.960			465	EV	
	16.174			767	VB	
PCB016	16.462	-0.09	3.409E-03-	1065	BB	1
	16.737			3708	BB	
	16.921			1514	BB	
	17.137			17512	BB	
	17.339			16818	BV	
	17.455			9814	VE	
	17.646			1437	EB	
	17.837			422	BV	
	18.025			2155	VB	
	18.273			128	BV	
PCB016	18.500	-0.18	0.05928	12637	VV	1
	18.670			4958	VE	
	18.807			705	EV	
	18.917			5121	VV	
PCB016	19.021	-0.09	0.04297	5817	VE	1
	19.216			1060	EV	
	19.357			3797	VV	
PCB254	19.585	0.40	0.06119	12111	VV	2
	19.844			12712	VV	
	20.167			40339	VE	
	20.271			3650	EV	
PCB254	20.430	-0.04	0.08834	30223	VV	2
PCB254	20.734	0.27	0.1205	19848	VV	2
	20.830			8775	VV	
	20.996			6751	VB	
	21.416			607	BV	
	21.550			13192	VV	
	21.860			12996	VV	
PCB254	22.121	0.20	0.07187	18816	VV	2
	22.402			9107	VV	
PCB260	22.561	-0.19	0.2043	54500	VV	3
	22.835			7756	VV	
	22.927			5716	VV	
	23.044			40626	VV	
	23.270			21524	VV	
	23.527			5326	VV	
PCB260	23.617	-0.60	0.05250	34044	VE	3
	23.779			2169	EV	
	23.976			3109	VV	
	24.197			2752	VV	
PCB260	24.429	-0.54	0.03267	8200	VB	3
PCB254	24.772	-0.11	0.07121	13971	BV	2
	24.968			15537	VV	
	25.153			16538	VV	
	25.369			37268	VE	
PCB260	25.495	-0.33	9.311E-03	4524	EB	3
PCB260	25.774	-1.06	0.01840	4555	BV	3
	25.930			2931	VE	
	26.035			359	EV	
	26.195			381	VV	
	26.310			623	VB	
	26.823			290	BV	
	26.943			4097	VV	
	27.100			11585	VV	
	27.207		.64366	6969	VE	
DBUCLE	27.376	0.37	~~1.931E-03-~~	1123	EV	
	27.483			10314	VE	
	27.618			1116	EV	

0500

27.737	347	EV
27.914	268	VB
28.245	132	BB
28.446	105	BB
28.711	117	BB
29.151	1154	BV
29.260	968	VV
29.388	733	VV
29.570	4976	VB
30.031	162	BB
30.441	4230	BB
30.923	102	BB
31.930	309	BV
32.098	697	VB
34.432	290	BB

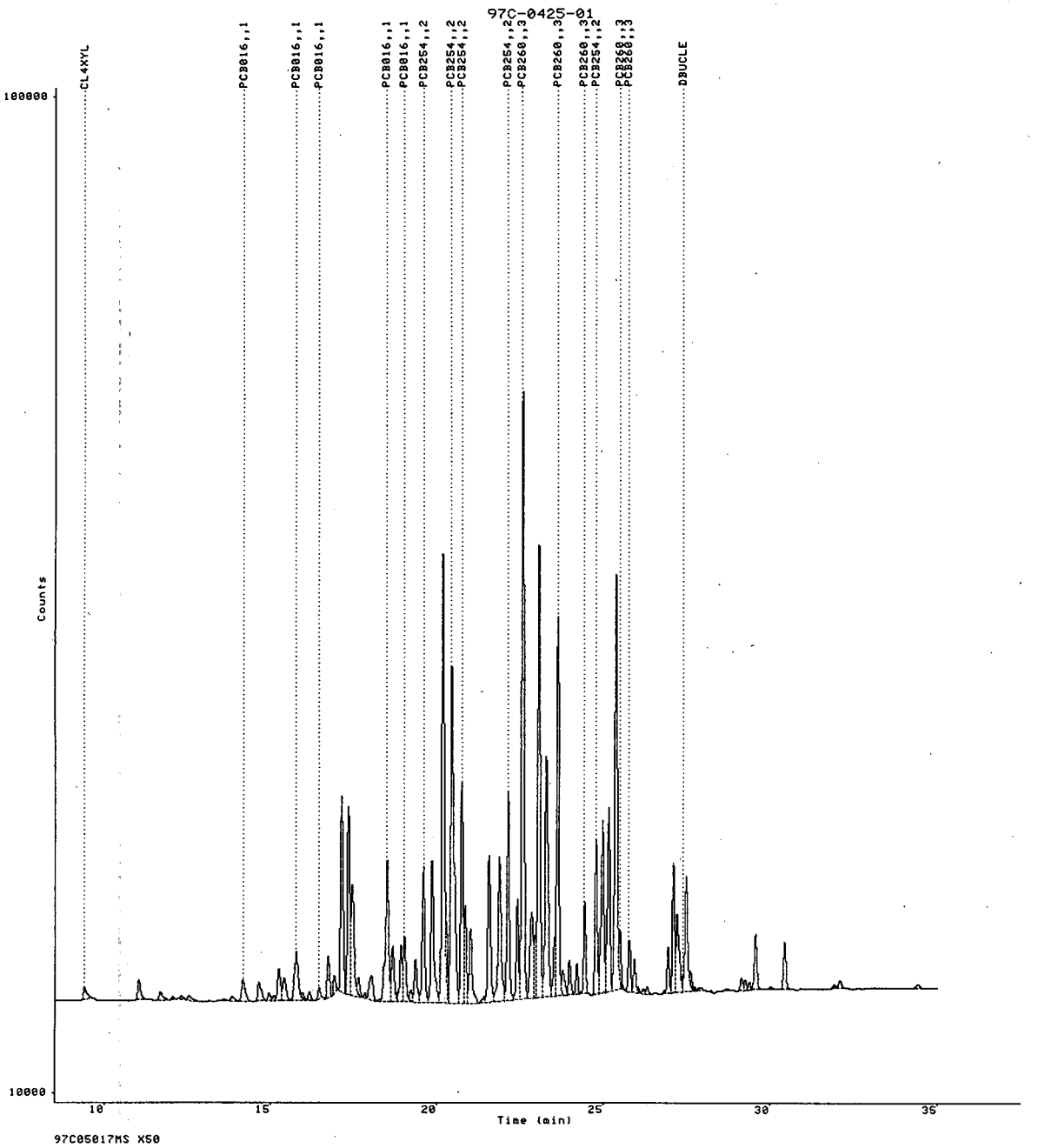
GROUP REPORT

Group	UG/SAMPLE	
1	0.1198	
2	0.4131	X 333.3333 = 39.93
3	0.3172	105.73

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316071.RAW;1
Report: 1197251555
Acquired: 16-NOV-1997 13:15:54
Time range: 8.50-37.50



0502

Date.....18-NOV-1997 16:00:25.81 User: TAYLORC
Report number.....1197251556
Raw file.....DISK:[TAYLORC]8397316072.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....16-NOV-1997 13:56:11
Acq. run time.....35.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05017MSD X50
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....35.000 min		Delay time.....9.200 min	
Area reject.....100 count(s)		No. peaks found.....88	
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.....0			
Sample vial.....165			
Analysis fit.....Quadratic		Origin treatment....Ignore	
Report units.....UG/SAMPLE			
Sample amount.....1.00000			
Volume injected.....1.00000		Conversion factor... ~~1.00000E+00~~ 333.3333	11/18/97

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EXTERNAL STANDARD ANALYSIS

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Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.409	-2.03	~~1.041E-03~~ .347	1063		BB	
	11.052			2136		BB	
	11.703			990		BB	
	12.073			408		BV	
	12.334			633		VV	
	12.565			539		VB	
	13.619			135		BB	
	13.859			455		BB	
PCB016	14.193	-0.59	6.081E-03	2015		BB	1
	14.664			1928		BV	
	14.975			749		VV	
	15.112			676		VV	
	15.262			2911		VV	
	15.416			2053		VV	
PCB016	15.785	-0.46	8.253E-03	4357		VE	1

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	15.963			533	EV	
	16.176			776	VB	
PCB016	16.464	-0.18	3.163E-03-	1010	BB	1
	16.742			3601	BV	
	16.926			2042	VV	
	17.139			16195	VV	
	17.342			15841	VV	
	17.457			10266	VE	
	17.645			1459	EV	
	17.840			653	VV	
	18.028			2227	VB	
PCB016	18.503	-0.37	0.05254	11294	BV	1
	18.673			4928	VE	
	18.806			635	EV	
	18.920			5188	VV	
PCB016	19.022	-0.11	0.04137	5615	VE	1
	19.217			1013	EV	
	19.358			3933	VV	
PCB254	19.587	0.32	0.05707	11351	VV	2
	19.845			12667	VV	
	20.167			37533	VE	
	20.276			4159	EV	
PCB254	20.431	-0.12	0.08494	29162	VV	2
PCB254	20.736	0.18	0.1154	19105	VV	2
	20.833			8647	VV	
	20.998			6630	VB	
	21.419			542	BV	
	21.551			12333	VV	
	21.861			12600	VV	
PCB254	22.121	0.19	0.06993	18336	VV	2
	22.403			8788	VV	
PCB260	22.562	-0.26	0.1905	51495	VV	3
	22.836			7163	VV	
	22.927			5446	VV	
	23.044			38723	VV	
	23.270			20530	VV	
	23.526			5127	VV	
PCB260	23.617	-0.57	0.05028	32698	VE	3
	23.781			2140	EV	
	23.978			2947	VV	
	24.197			2569	VV	
PCB260	24.427	-0.43	0.03030	7616	VB	3
PCB254	24.771	-0.06	0.06861	13485	BV	2
	24.967			14705	VV	
	25.154			15026	VV	
	25.370			35036	VE	
PCB260	25.496	-0.33	8.788E-03	4272	EB	3
PCB260	25.773	-1.04	0.01691	4183	BV	3
	25.930			2718	VE	
	26.034			302	EB	
	26.188			591	BV	
	26.309			580	VB	
	26.823			266	BV	
	26.944			3740	VV	
	27.101			10714	VV	
	27.206		.58866	5977	VE	
DBUCLE	27.374	0.51	~~1.766E-03-~~	897	EV	
	27.482			9397	VE	
	27.619			928	EB	
	27.915			164	BB	

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28.240	152	BB
28.447	161	BV
28.711	157	VB
29.151	1047	BV
29.259	866	VV
29.389	680	VV
29.569	4495	VB
30.033	143	BB
30.439	4394	BB
30.927	73	BB
31.930	287	BV
32.099	632	VB
34.435	243	BB

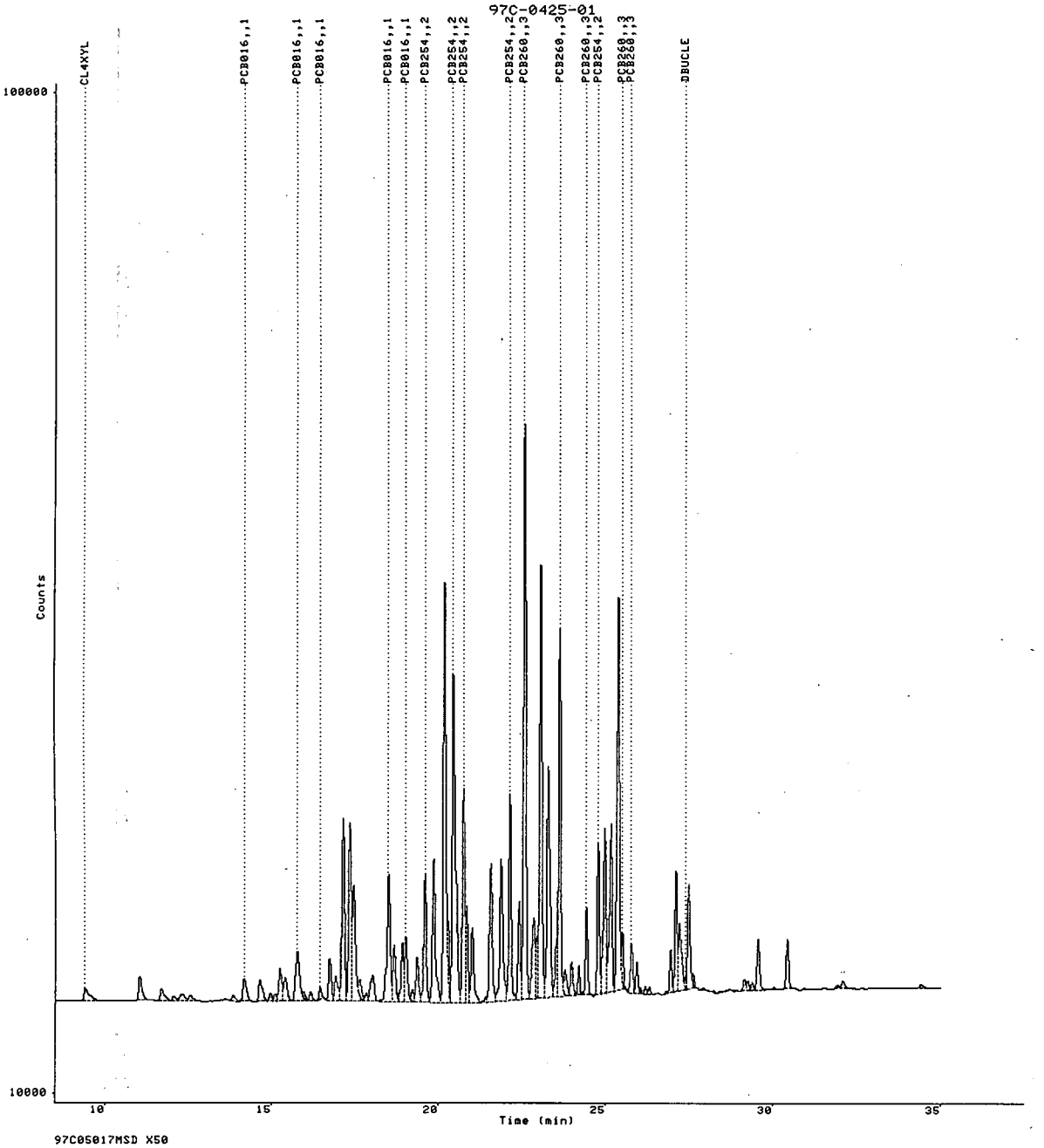
GROUP REPORT

Group	UG/SAMPLE		
1	0.1114		37.133
2	0.3960	X333.3333	
3	0.2968		98.93

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]8397316072.RAW;1
Report: 1197251556
Acquired: 16-NOV-1997 13:56:11
Time range: 8.50-37.50



0506

Date.....18-NOV-1997 16:00:32.07 User: TAYLORC
Report number.....1197251557
Raw file.....DISK:[TAYLORC]8397316073.RAW;1
Method file.....DISK:[TAYLORC]8397316_8080P2.MET;39
Last method update..18-NOV-1997 15:58:27.82

Device.....Channel 83A, Model 941 Serial Num: 0289512361
Reprocess number....3

Acq. date.....16-NOV-1997 14:36:26
Acq. run time.....35.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05019 X200
Notes.....97C-0425-01

Author.....J. CHRIS TAYLOR
Instrument.....HP5890 EC-7
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....25 MM
Stationary phase....DB-17
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....35.001 min Delay time.....9.200 min
Area reject.....100 count(s) No. peaks found.....58
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.....0
Sample vial.....165
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...~~1.00000E+00~~ 333.3333 11/18/97

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref Std
14.18	PCB016	1	
15.78	PCB016	1	

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	9.400	-1.52	~~6.888E-05~~ .00296 11/18/97	176		BB	
	11.052			153		BB	
	11.697			168		BB	
	12.564			167		BB	
	14.756			281		BV	
	14.971			211		VB	
	15.259			446		BB	

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	15.959			162	BB	
PCB016	16.458	0.15	-6.614E-04-	152	BB	1
	16.739			243	BV	
	16.925			111	VV	
	17.138			6435	VV	
	17.341			3580	VV	
	17.458			1320	VE	
	17.654			253	EB	
	18.011			194	BB	
PCB016	18.503	-0.34	0.01320	3168	BE	1
	18.673			707	EB	
	18.918			322	BV	
PCB016	19.024	-0.25	4.973E-03	928	VB	1
	19.359			525	BB	
PCB254	19.587	0.30	0.02178	4639	BB	2
	19.846			2305	BB	
	20.169			16079	BV	
PCB254	20.432	-0.20	0.04579	16566	VV	2
PCB254	20.737	0.11	0.05748	10135	VE	2
	20.998			1364	EB	
	21.415			210	BV	
	21.553			6321	VV	
	21.860			6618	VV	
PCB254	22.122	0.13	0.03945	10637	VV	2
	22.402			4729	VV	
PCB260	22.564	-0.35	0.09026	26812	VV	3
	22.836			2805	VV	
	22.928			2026	VV	
	23.046			19337	VV	
	23.270			9880	VV	
	23.527			2457	VV	
PCB260	23.619	-0.70	0.02268	15558	VB	3
	23.978			1205	BB	
	24.199			509	BB	
PCB260	24.430	-0.58	0.01447	3671	BB	3
PCB254	24.773	-0.15	0.02599	5350	BV	2
	24.967			7459	VV	
	25.154			6363	VV	
	25.370			17971	VE	
PCB260	25.494	-0.21	2.257E-03-	1108	EB	3
PCB260	25.779	-1.35	6.679E-03	1608	BV	3
	25.931			1258	VB	
	26.312			103	BB	
	26.943			1148	BV	
	27.101			5350	VV	
	27.207			2534	VV	
DBUCLE	27.483	-6.09	~~3.206E-03-~~ 1.0687 11/19/97	2869	VE	
	27.623			450	EB	
	29.153			112	BV	
	29.263			226	VB	
	29.570			1572	BB	

GROUP REPORT

Group	UG/SAMPLE
1	1.751E-02
2	0.1905 X333.3333 = 63.50
3	0.1363

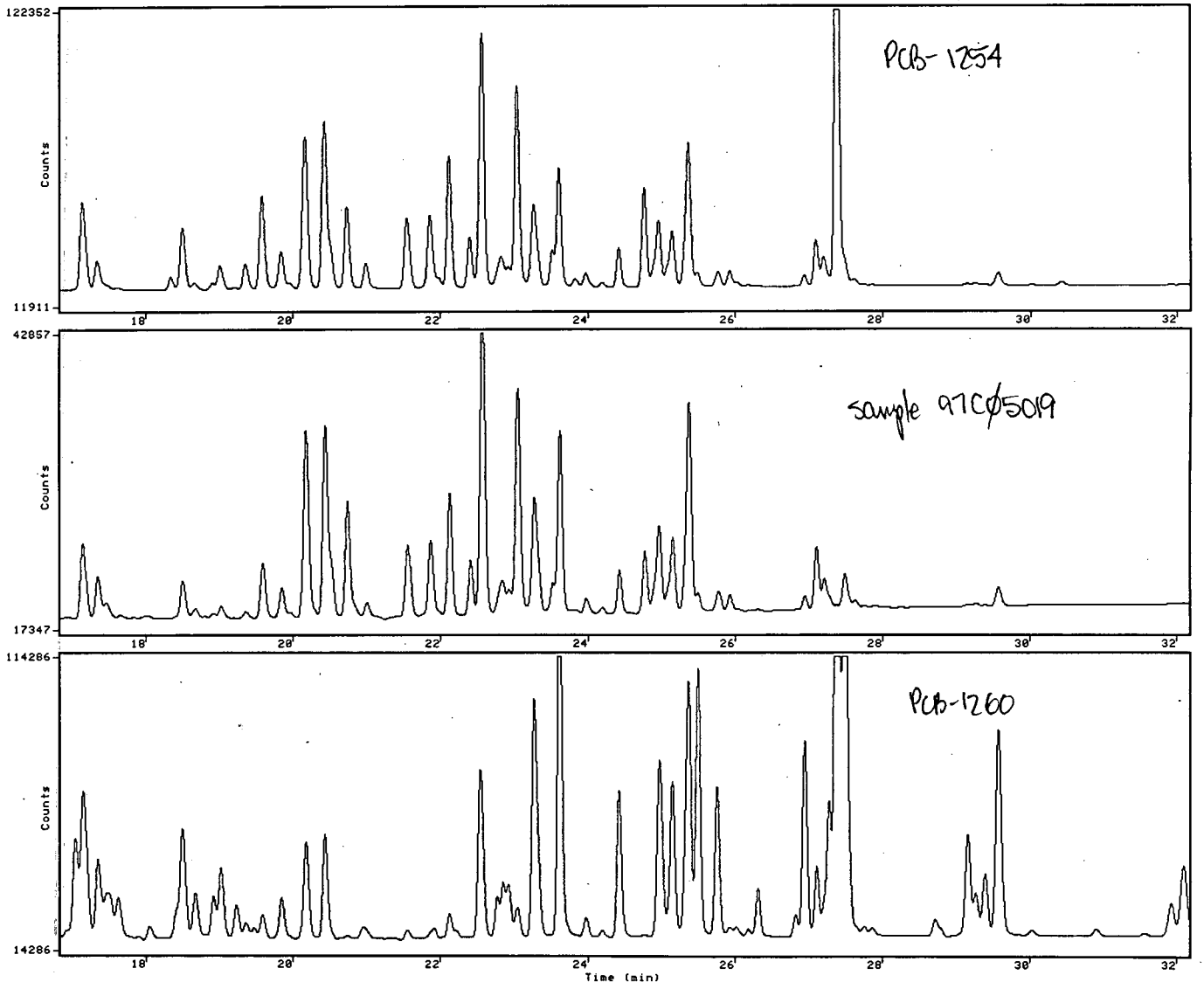
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

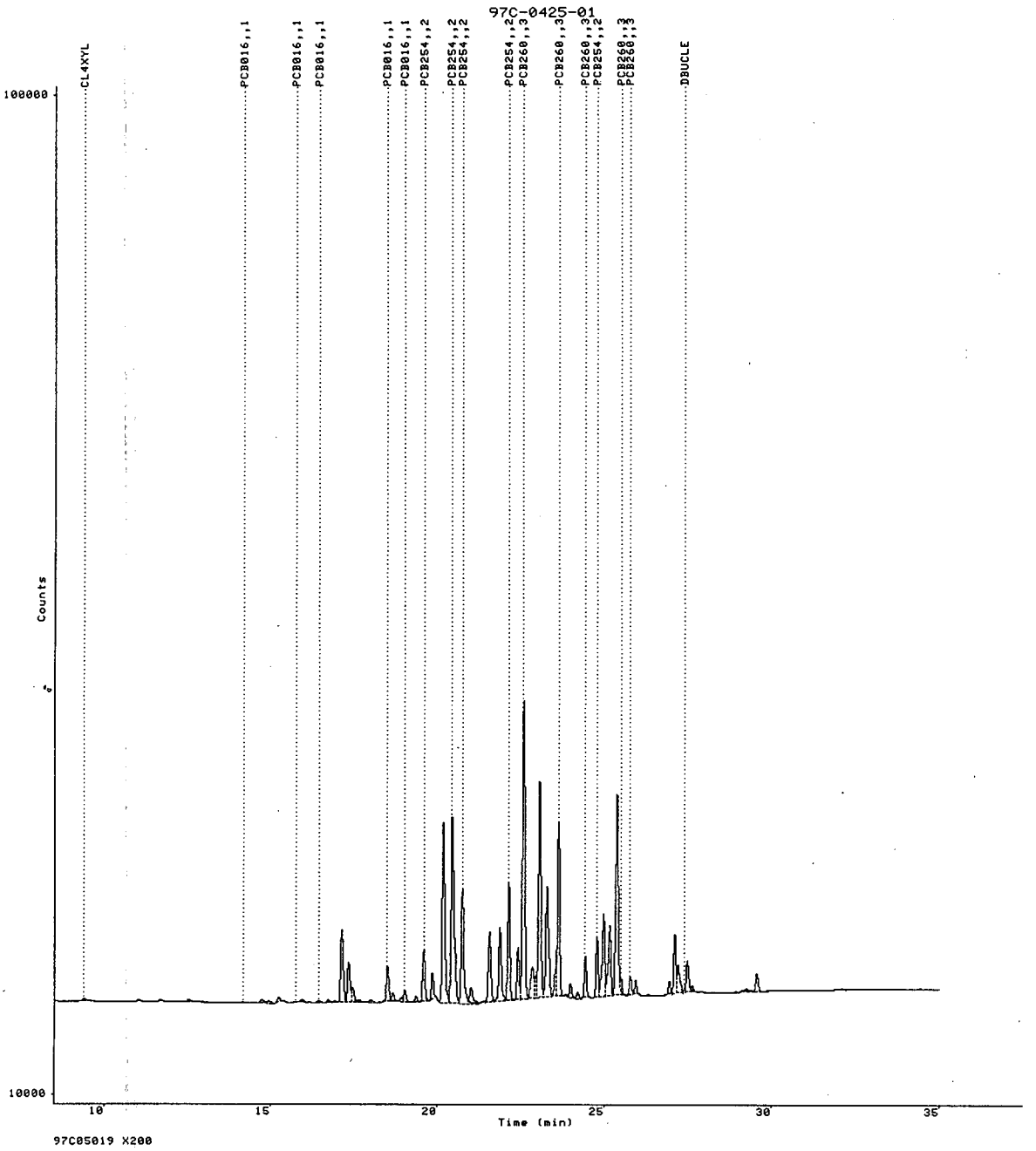
Date: 18-NOV-1997 18:40:57.73

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
8397316047	16.81	32.20	11911	122352	1
8397316073	16.81	32.20	17347	42857	1
8397316075	16.81	32.20	14286	114286	1

best match = PCB-1254



Data file: DISK:[TAYLORC]8397316073.RAW;1
Report: 1197251557
Acquired: 16-NOV-1997 14:36:26
Time range: 8.50-37.50



11/18/97

0511

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.

97C-0425

PERCENT SOLIDS DATA

- DCL Sample Work Orders
- DCL Chain-of-Custodies
- Solids Total Analytical Report
- Solids Total Notebook Pages

Sample Work Order

QC Clearance: _____
Project Manager: Scott B. Saulls
Client: Roy F. Weston
Account: 03008 **SDG:** MMMNS1
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-0425 *
DCL Lab. Name: 97C05000–97C05019
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/ OX (ZC)

Section Manager: Michael P. Beesley

Other Sections Receiving Sample Portions: ZC, FC

DataChem Laboratories/ 960 West LeVoy Drive / Salt Lake City, Utah 84123

Form: WO1.04-SWV2.12

PRINTED 11/6/1997 16:57

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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-0425 * | 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	SSSSD1	97C05000			SOIL						X	X	X							1
5-Nov-1997	SSSSD2	97C05001			SOIL						X	X	X							1
5-Nov-1997	SSSS~~S~~1	97C05002			SOIL						X	X	X							1
5-Nov-1997	SSSSS2	97C05003			SOIL						X	X	X							1
5-Nov-1997	PPPSS2	97C05004			SOIL						X	X	X							1
5-Nov-1997	PPPSS1	97C05005			SOIL						X	X	X							1
5-Nov-1997	PPPSD2	97C05006			SOIL						X	X	X							1
5-Nov-1997	PPPSD1	97C05007			SOIL						X	X	X							1
5-Nov-1997	QQQSS2	97C05008			SOIL						X	X	X							1
5-Nov-1997	QQQSD1	97C05009			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 [illegible]	Labeling/Shelving COI
R-23-1	11-9-97 2245	Walk-in/ Room/ Shelf/ Fridge Kevin Nottenmyer KN	Storage: EXT.
Kevin Nottenmyer	11-10-97 0230	R-16-5	STORAGE/R-16-5
16-5 11/12/97 R33 mem	11/12/97 13:00	~~SAMPLE PREP GROUP RM 20~~ BK#3319 IN mem	% solids
SAMPLE PREP GROUP RM 20 BK#3319 IN. mem	11/12/97 18:00	R33-1 mem	Storage
R33-1 mem	11/18/97 10:00	R20 mem	% 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 mem~~ | Date/Time: 11/18/97 15:00

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 16:57

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-0425 * | 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	QQQSD2	97C05010			SOIL						X	X	X							1
5-Nov-1997	QQQSS1	97C05011			SOIL						X	X	X							1
5-Nov-1997	RRRSS1	97C05012			SOIL						X	X	X							1
5-Nov-1997	RRRSD1	97C05013			SOIL						X	X	X							1
5-Nov-1997	RRRSD2	97C05014			SOIL						X	X	X							1
5-Nov-1997	RRRSS2	97C05015			SOIL						X	X	X							1
5-Nov-1997	MMMSED(S)	97C05016			SOIL						X	X	X							1
5-Nov-1997	MMMNS1	97C05017			SOIL						X	X	X							1
5-Nov-1997	MMMNS1	97C05017MS		MS	SOIL						X									1
5-Nov-1997	MMMNS1	97C05017MSD		MSD	SOIL						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 [illegible]	11-6-97 1800	R231 [illegible]	Labeling/Shelving CO
R-23-1	11-7-97 2245	Walk-in/Room/Shelf/Fridge Kevin Noltemeyer	Storage:
Kevin Noltemeyer	11-10-97 0230	R-16-5	STORAGE/R-16-5
R16-5 mkm	11/12/97 13:00	SAMPLE PREP GROUP RM 20 BK# 3319 IN. mrm	% solids
SAMPLE PREP GROUP RM 20 BK#3319 IN. mrm	11/12/97 18:00	R33-1 mrm	Storage
R33-1 mrm	11/18/97 10:00	R20 mrm	% solids

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: % solids SAMPLE PREP GROUP RM 20 Lab Notebook No.: 3319

Prepared/Analyzed by: BK# 3319 IN. mrm Date/Time: 11/18/97 16:00

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 16:57

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-0425 * | 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	MMMSS2	97C05018			SOIL						X	X	X							1
5-Nov-1997	MMMSD2	97C05019			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
R-23-1	11-9-97 2245	Walk-in/ Room/ Shelf/ Fridge	Storage:
Kevin Nottingham	11-10-97 0230	R-16-5	STORAGE /R-16-5
R16-5 mrm	11/12/97 13:00	SAMPLE PREP GROUP RM 20 BK # 3319 mrm	% solids
SAMPLE PREP GROUP RM 20 BK # 3319 mrm	11/12/97 18:00	R33-1 mrm	Storage
R33-1 mrm	11/18/97 20:00	R20 mrm	% solids

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: % solids

Prepared/Analyzed by: SAMPLE PREP GROUP RM 20 BK # 3319 mrm

Lab Notebook No.: 3319

Date/Time: 11/18/97 15:00

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 16:57

DATA CHEM LABORATORIES
A Sorenson Company

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 2
Part 1 of 1
11209722084621

Date _____
Laboratory Group Name 97C-0425-03
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 18, 1997

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Solids (Total) %								
SSSSD1	97C05000	SOIL	54.1								
SSSSD1	97C05000MD	SOIL	55.4								
SSSSD2	97C05001	SOIL	70.8								
SSSS1	97C05002	SOIL	67.7								
SSSSS2	97C05003	SOIL	72.3								
PPPSS2	97C05004	SOIL	69.0								
PPPSS1	97C05005	SOIL	70.5								
PPPSD2	97C05006	SOIL	72.2								
PPPSD1	97C05007	SOIL	56.0								
QQQSS2	97C05008	SOIL	69.8								
QQQSD1	97C05009	SOIL	60.4								
QQQSD2	97C05010	SOIL	68.6								
QQQSS1	97C05011	SOIL	71.8								

† 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

Penny S. Foster
Reviewer:

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
12099712122880

Date _____
Laboratory Group Name 97C-0425-03

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Solids (Total) %							
RRRSS1	97C05012	SOIL	66.4							
RRRSD1	97C05013	SOIL	56.1							
RRRSD2	97C05014	SOIL	71.3							
RRRSS2	97C05015	SOIL	65.3							
MMMSED(S)	97C05016	SOIL	48.1							
MMMNS1	97C05017	SOIL	49.1							
MMMSS2	97C05018	SOIL	59.8							
MMMSD2	97C05019	SOIL	35.9							
MMMSD2	97C05019MD	SOIL	33.6							
Limit of Detection										

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

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

0519

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
FAX (801) 268-9992

DataChem Laboratories
LIMS - Sample Master System
Preparation Group Report

Date: 8-NOV-1997 14:01 Page: 1
User: MANNINGM RLIMS15-V1.2

Preparation Run Name: G97B701Y Group ID: G97B701Y

Samples: 22

Pos	Laboratory Sample Name	Field Sample Name 1	Field Sample Name 2	Laboratory Sample ID	Laboratory Group Name	Accnt. Number
1	97C05000	SSSSD1		S97B50J5	97C-0425-03	03008
2	97C05000MD	SSSSD1		S97B7006	97C-0425-03	03008
3	97C05001	SSSSD2		S97B50J6	97C-0425-03	03008
4	97C05002	SSSS1		S97B50J7	97C-0425-03	03008
5	97C05003	SSSSS2		S97B50J8	97C-0425-03	03008
6	97C05004	PPPSS2		S97B50J9	97C-0425-03	03008
7	97C05005	PPPSS1		S97B50JB	97C-0425-03	03008
8	97C05006	PPPSD2		S97B50JC	97C-0425-03	03008
9	97C05007	PPPSD1		S97B50JD	97C-0425-03	03008
10	97C05008	QQQSS2		S97B50JF	97C-0425-03	03008
11	97C05009	QQQSD1		S97B50JG	97C-0425-03	03008
12	97C05010	QQQSD2		S97B50JH	97C-0425-03	03008
13	97C05011	QQQSS1		S97B50JJ	97C-0425-03	03008
14	97C05012	RRRSS1		S97B50JK	97C-0425-03	03008
15	97C05013	RRRSD1		S97B50JL	97C-0425-03	03008
16	97C05014	RRRSD2		S97B50JM	97C-0425-03	03008
17	97C05015	RRRSS2		S97B50JN	97C-0425-03	03008
18	97C05016	MMMSED(S)		S97B50JP	97C-0425-03	03008
19	97C05017	MMMNS1		S97B50JQ	97C-0425-03	03008
20	97C05018	MMMSS2		S97B50JR	97C-0425-03	03008
21	97C05019	MMMSD2		S97B50JS	97C-0425-03	03008
22	97C05019MD	MMMSD2		S97B7007	97C-0425-03	03008

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

TITLE DATACHEM LABORATORIES -- % MOISTURE

Project No. X

Book No. 3319

DATA CHEM

75

From Page No. X

Insertion of percent solids for sets 97C-0432-03; 97C-0425. Additional insertion for set 97C-0449-02 below.

Acct # 3008 | METHOD: XX-EP-800, rev | Balance ID# 1055625

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-0432-03	MANNINGM	97C05112	GGGNS2	195	1.3034	7.8887	5.6421	6.5853	4.3387	65.9	34.1	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05113	GGGNS1	103	1.2962	7.1133	5.0624	5.8171	3.7662	64.7	35.3	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05113MD	GGGNS1	166	1.3031	8.1731	5.5934	6.87	4.2903	62.4	37.6	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05114	GGGND1	167	1.3142	7.749	4.9787	6.4348	3.6645	56.9	43.1	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05115	GGGSED(D)	136	1.3033	7.9822	6.6076	6.6789	5.3043	79.4	20.6	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05116	GGGSED(S)	138	1.2984	9.6816	8.2276	8.3832	6.9292	82.7	17.3	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05117	GGGSS2	139	1.2957	7.9437	7.2207	6.648	5.925	89.1	10.9	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05118	GGGSD2	137	1.31	7.511	6.7832	6.201	5.4732	88.3	11.7	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05119	GGGNS3	74	1.2912	7.8625	5.6	6.5713	4.3088	65.6	34.4	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05120	GGGSD1	192	1.314	9.8399	8.8698	8.5259	7.5556	88.6	11.4	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05121	GGGSS1	117	1.3125	7.6888	5.7901	6.3763	4.4776	70.2	29.8	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05122	GGGND2	118	1.3059	7.6352	5.7453	6.3293	4.4394	70.1	29.9	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05123	JJJNS1	119	1.3012	7.8885	5.8601	6.5873	4.5589	69.2	30.8	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05124	JJJND1	75	1.3039	7.9342	5.9553	6.6303	4.6514	70.2	29.8	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05125	JJJSS2	76	1.2896	9.5023	6.3603	8.2127	5.0707	61.7	38.3	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05126	JJJSD2	33	1.3065	7.6344	4.6623	6.3279	3.3558	53.0	47.0	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05127	JJJSD1	34	1.3108	7.6909	4.0614	6.3301	2.7506	43.1	56.9	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0432-03	MANNINGM	97C05128	JJJSED(D)	35	1.2948	9.6077	7.617	8.3129	6.3222	76.1	23.9	1997-11-18	05:15 PM	101	1997-11-19	12:00 PM	85
97C-0425-03	MANNINGM	97C05000	SSSSD1	106	1.3004	8.5752	5.2343	7.2748	3.9339	54.1	45.9	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05000MD	SSSSD1	121	1.2979	8.5359	5.3042	7.238	4.0063	55.4	44.6	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05001	SSSSD2	122	1.3023	7.0551	5.3774	5.7528	4.0751	70.8	29.2	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05002	SSSS1	173	1.2993	7.6106	5.5738	6.3113	4.2745	67.7	32.3	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05003	SSSSS2	107	1.306	8.2021	6.2891	6.8961	4.9831	72.3	27.7	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05004	PPPSS2	124	1.304	7.6462	5.6774	6.3422	4.3734	69.0	31.0	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05005	PPPSS1	132	1.295	9.865	7.3360	8.57	6.041	70.5	29.5	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05006	PPPSD2	133	1.2972	8.4145	6.4389	7.1173	5.1417	72.2	27.8	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05007	PPPSD1	134	1.2933	8.2719	5.1993	6.9786	3.906	56.0	44.0	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05008	QQQSS2	29	1.2883	8.4724	6.3054	7.1841	5.0171	69.8	30.2	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05009	QQQSD1	94	1.3097	8.1004	5.4108	6.7907	4.1011	60.4	39.6	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05010	QQQSD2	95	1.305	7.3135	5.4268	6.0085	4.1218	68.6	31.4	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05011	QQQSS1	30	1.3121	8.461	6.4461	7.1489	5.134	71.8	28.2	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05012	RRRSS1	109	1.3029	7.1655	5.1965	5.8625	3.8936	66.4	33.6	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05013	RRRSD1	32	1.3321	9.5333	5.9369	8.2012	4.6048	56.1	43.9	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05014	RRRSD2	97	1.3051	8.0864	6.1369	6.7813	4.8318	71.3	28.7	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05015	RRRSS2	102	1.3073	~~[illegible]~~	6.3742	~~[illegible]~~	5.0669	~~[illegible]~~	~~[illegible]~~	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05016	MMMSED(S)	104	1.3201	8.9016	4.9658	7.5815	3.6457	48.1	51.9	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05017	MMMNS1	77	1.2961	8.6602	4.9091	7.3641	3.613	49.1	50.9	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05018	MMMSS2	91	1.3071	8.2991	5.4885	6.992	4.1814	59.8	40.2	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C05019	MMMSD2	92	1.2944	8.5278	3.8923	7.2334	2.5979	35.9	64.1	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86
97C-0425-03	MANNINGM	97C0519MD	MMMSD2	194	1.2945	7.4196	3.3530	6.1251	2.0585	33.6	66.4	1997-11-18	04:30 PM	102	1997-11-19	01:00 PM	86

97C05015 9.065 7.1577 65.3 34.7
BZ 12/9/97 BZ 12/9/97 BZ 12/9/97 BZ 12/9/97

MRM 11/20/97

Acct # 3008 | METHOD: XX-EP-800, rev | Balance ID# 1058592

Sol 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	Tem C
97C-0449-02	MANNINGM	97C05336	DOP1SV001A	245	1.2992	8.8885	8.6003	7.5893	7.3011	96.2	3.8	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05336MD	DOP1SV001A	246	1.3244	8.9267	8.6451	7.6023	7.3207	96.3	3.7	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05337	DOP1SV002A	215	1.3152	9.1216	8.8331	7.8064	7.5179	96.3	3.7	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05338	DOP1SV003A	216	1.297	9.0173	8.7048	7.7203	7.4078	96.0	4.0	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05339	DOP1SV004A	290	1.3084	8.8295	8.5478	7.5211	7.2394	96.3	3.7	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05340	DOP1SV005A	218	1.2989	8.888	8.5976	7.5891	7.2987	96.2	3.8	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05341	DOP1SV006A	220	1.2984	8.7666	8.5156	7.4682	7.2172	96.6	3.4	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05342	DOP1SV007A	203	1.2928	9.0473	8.7581	7.7545	7.4653	96.3	3.7	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05343	DOP91SV001	201	1.313	8.8517	8.3882	7.5387	7.0752	93.9	6.1	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05344	DOP91SV002	237	1.3086	9.6282	9.2493	8.3196	7.9407	95.4	4.6	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05345	DOP91SV003	232	1.2979	9.0203	7.6584	7.7224	6.3605	82.4	17.6	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05346	DOP91SV004	236	1.3027	9.2295	8.9099	7.9268	7.6072	96.0	4.0	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05347	DOP91SV005	235	1.3127	9.5676	8.3519	8.2549	7.0392	85.3	14.7	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05348	DOP91SV006	234	1.3015	8.8147	7.5886	7.5132	6.2871	83.7	16.3	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05349	DOP91SV007	211	1.2896	9.661	8.2726	8.3714	6.983	83.4	16.6	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05350	DOP06SV001	210	1.305	8.9461	7.8842	7.6411	6.5792	86.1	13.9	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05351	DOP06SV002	238	1.3219	9.2407	7.9192	7.9188	6.5973	83.3	16.7	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05352	DOP06SV003	239	1.3247	8.8291	7.7662	7.5044	6.4415	85.8	14.2	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05353	DOP06SV004	240	1.3271	8.974	7.6185	7.6469	6.2914	82.3	17.7	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05354	DOP06SV005	207	1.3215	9.2033	7.8658	7.8818	6.5443	83.0	17.0	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05355	DOP06SV006	212	1.2907	8.9693	7.9394	7.6786	6.6487	86.6	13.4	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05356	DOP06SV007	243	1.3037	8.8417	7.5681	7.538	6.2644	83.1	16.9	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84
97C-0449-02	MANNINGM	97C05356MD	DOP06SV007	242	1.3121	9.0696	7.7428	7.7575	6.4307	82.9	17.1	1997-11-18	10:50 AM	101	1997-11-19	10:30 AM	84

MRM 11/20/97

To Page No. X

Witnessed & Understood by me, Rita Manning | Date 11-20-97 | Invented by NOT APPLICABLE | Recorded by Michelle Manning | 11/20/97

Fed USA Airbill FedEx Tracking Number 801903172357 0200 Form I.D. No. Recipient's Copy

1 From

Date 11/5/97

Sender's Name Mike Mohnkopf 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 (To "HOLD" at FedEx location, print FedEx address here) Dept./Floor/Suite/Room

☐ 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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SAMPLE LOG-IN SHEET

Group Name: 97C-0425

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.: MMMNS1 — 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 8°C C97-1517
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.
SSSSD1	NA	97C05000	S	PCB	ACCEPTABLE
SD2		01			
SS1		02			
SS2		03			
PPP SS2		04			
SS1		05			
SD2		06			
SD1		07			
QQQ SS2		08			
SD1		09			
SD2		10			
SS1		11			
RRRSS1		12			
SD1		13			
SD2		14			
SS2		15			
MMMSED(S)		16			
NS1		17			MS/MSD
SS2		18			
SD2		19			

Sample Transfer

Fraction PCB	Fraction
Area # R23-1	Area #
By	By
On 11-6-97	On

11-6-97

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. Not Applicable
Date 11-6-97	Logbook Page No. Not Applicable

FRACTIONS:
C - Cyanide
D - Dissolved Metals
T - Total Metals
F - Full TCL Organics
P- Pesticides
S - Semivolatiles
V - Volatiles

FORM DC-1

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 0400

Number of Coolers Received: 5

Condition of Coolers: Acceptable/Unacceptable

Temperature Control: Present/Not Included

Custody Seals: Present/Absent/NA

Intact/Broken/NA

Location Temperature Taken: Control/Between Samples

Are all temperatures within project specific guidelines? Yes/No/NA

Tamper Evident: Yes/No/NA

Ice Present: Yes/No/NA

Frozen/Melted/NA

Are all applicable pHs within specific guidelines? Yes/No/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) PLorum (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: _____

(Revised 6/4/97)