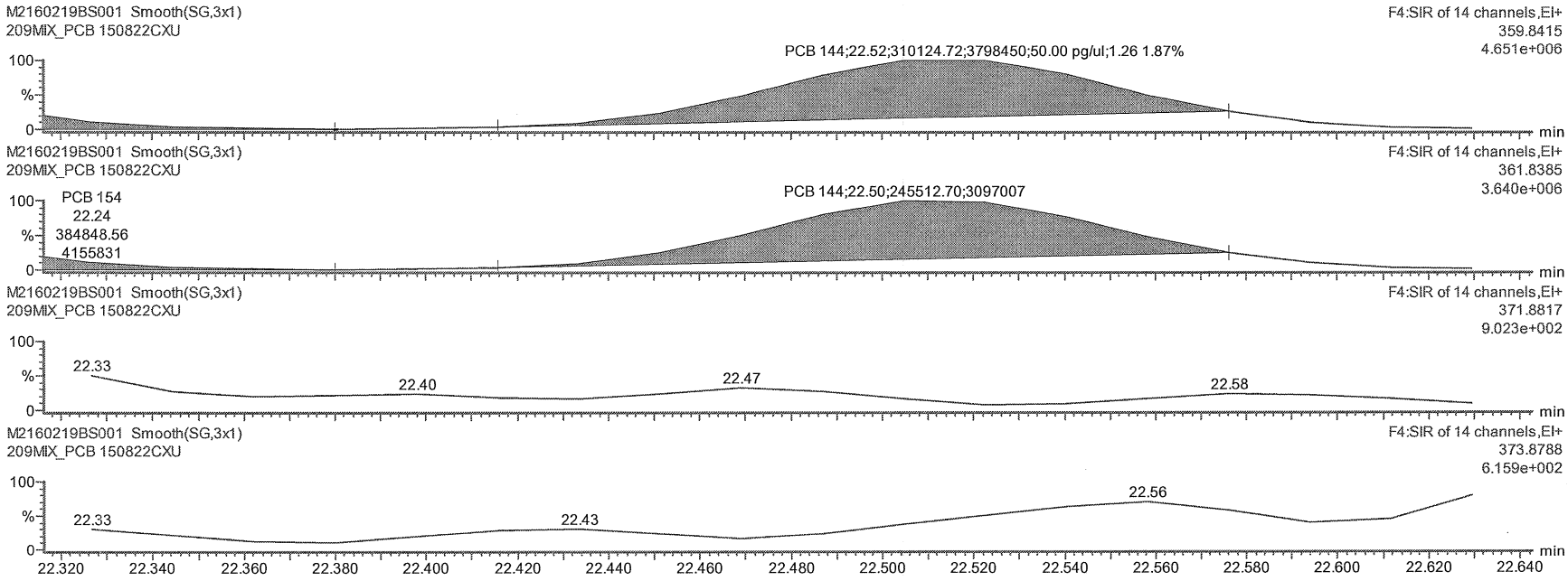

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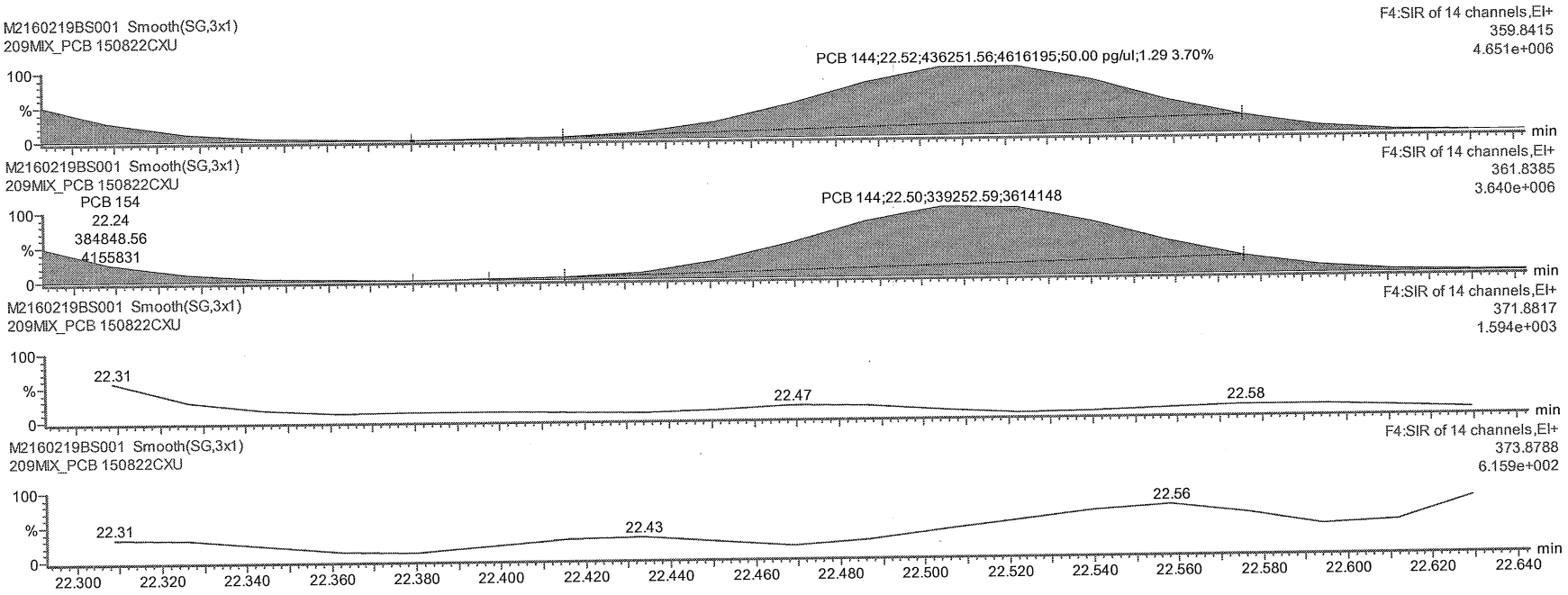
2016-02-21

FEB 2 4 2016



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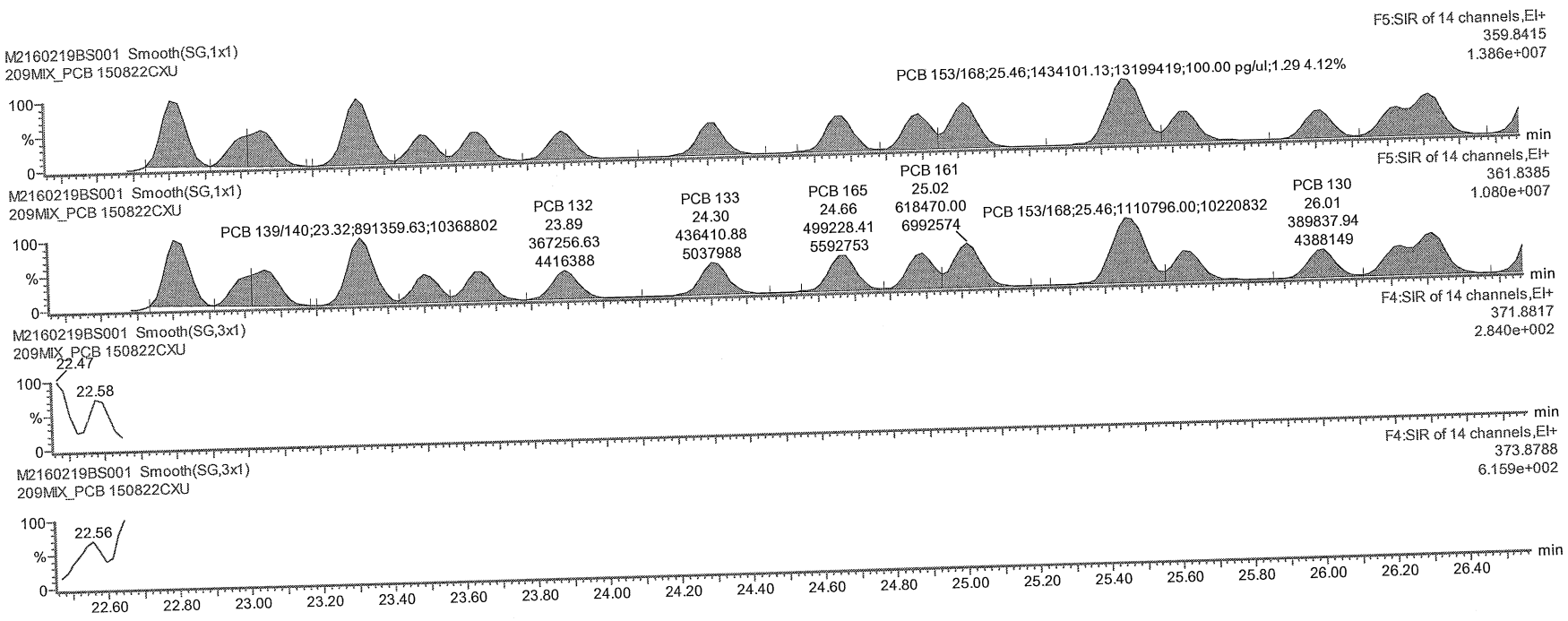

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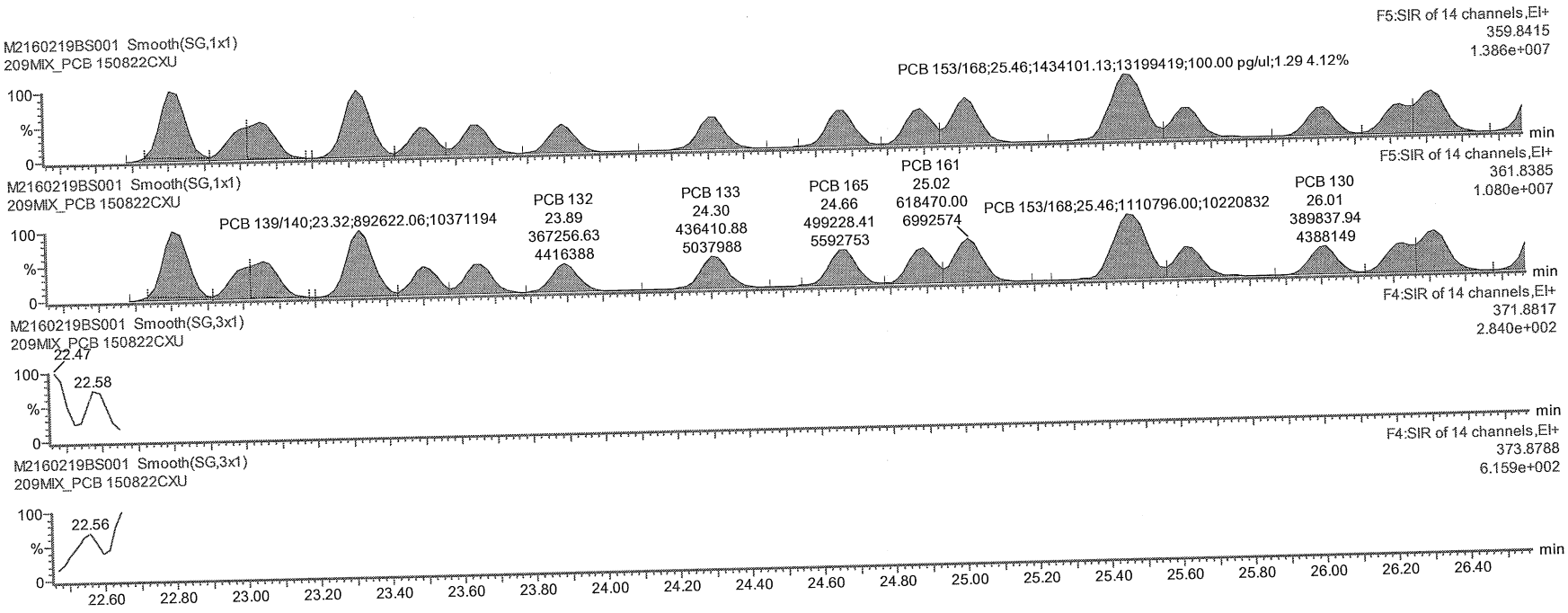
FEB 2 4 2016



2016-02-21

FEB 2 4 2016

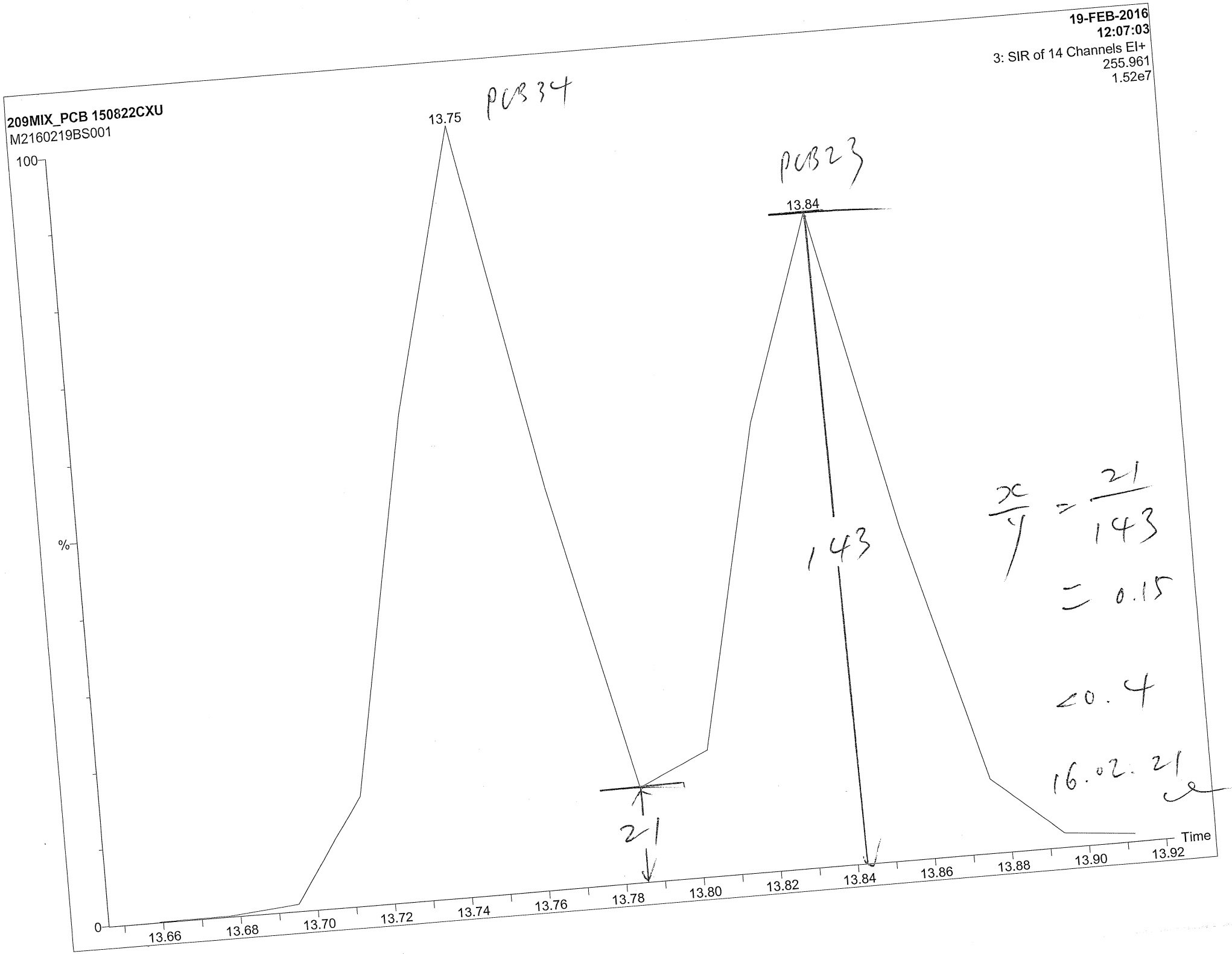
M2160219BS001

RUN#:	ANALYTE TABLE #	PCB NAME:	PCB RT:	RRT REF STD #:	STD RT:	RRT:
	1	1	9	165	9	1.000
	2	2	10.1	166	10.19	0.991
	3	3	10.2	166	10.19	1.001
	4	4	10.31	167	10.3	1.001
	5	10	10.39	167	10.3	1.009
	6	9	11.21	167	10.3	1.088
	7	7	11.27	167	10.3	1.094
	8	6	11.37	167	10.3	1.104
	9	5	11.52	167	10.3	1.118
	10	8	11.56	167	10.3	1.122
	11	14	12.27	168	12.94	0.948
	12	11	12.65	168	12.94	0.978
	13	13/12	12.8	168	12.94	0.989
	14	15	12.94	168	12.94	1.000
	15	19	11.69	169	11.69	1.000
	16	30/18	12.5	169	11.69	1.069
	17	17	12.69	169	11.69	1.086
	18	27	12.8	169	11.69	1.095
	19	24	12.86	169	11.69	1.100
	20	16	12.88	169	11.69	1.102
	21	32	13.15	169	11.69	1.125
	22	34	13.75	169	11.69	1.176
	23	23	13.84	169	11.69	1.184
	24	26/29	14	169	11.69	1.198
	25	25	14.11	170	16.69	0.845
	26	31	14.27	170	16.69	0.855
	27	28/20	14.44	170	16.69	0.865
	28	21/33	14.54	170	16.69	0.871
	29	22	14.76	170	16.69	0.884
	30	36	15.61	170	16.69	0.935
	31	39	15.81	170	16.69	0.947
	32	38	16.19	170	16.69	0.970
	33	35	16.44	170	16.69	0.985
	34	37	16.71	170	16.69	1.001
	35	54	13.09	171	13.07	1.002
	36	53/50	14.13	171	13.07	1.081
	37	45/51	14.49	171	13.07	1.109
	38	46	14.65	171	13.07	1.121
	39	52	15.38	171	13.07	1.177
	40	73	15.45	171	13.07	1.182
	41	43	15.52	171	13.07	1.187
	42	69/49	15.65	171	13.07	1.197
	43	48	15.85	171	13.07	1.213
	44	44/47/65	15.99	171	13.07	1.223
	45	59/62/75	16.17	171	13.07	1.237
	46	42	16.28	171	13.07	1.246
	47	40/41/71	16.57	171	13.07	1.268
	48	64	16.71	171	13.07	1.279
	49	72	17.21	172	21.42	0.803
	50	68	17.41	172	21.42	0.813
	51	57	17.68	172	21.42	0.825
	52	58	17.84	172	21.42	0.833
	53	67	17.96	172	21.42	0.838
	54	63	18.14	172	21.42	0.847
	55	61/70/74/76	18.35	172	21.42	0.857
	56	66	18.59	172	21.42	0.868
	57	55	18.71	172	21.42	0.873
	58	56	19.07	172	21.42	0.890
	59	60	19.23	172	21.42	0.898
	60	80	19.48	172	21.42	0.909
	61	79	20.63	172	21.42	0.963
	62	78	21.08	172	21.42	0.984
	63	81	21.44	172	21.42	1.001
	64	77	21.88	173	21.86	1.001
	65	104	15.94	174	15.94	1.000
	66	96	16.17	174	15.94	1.014
	67	103	17.32	174	15.94	1.087
	68	94	17.48	174	15.94	1.097
	69	95	17.77	174	15.94	1.115
	70	100/93/102/98	17.93	174	15.94	1.125
	71	88/91	18.34	174	15.94	1.151

16.02.21

	72	84	18.51	174	15.94	1.161
	73	89	18.85	174	15.94	1.183
	74	121	19.1	174	15.94	1.198
	75	92	19.37	174	15.94	1.215
	76	113/90/101	19.78	174	15.94	1.241
	77	83/99	20.24	174	15.94	1.270
	78	112	20.33	174	15.94	1.275
	79	109/119/86/97/	20.63	174	15.94	1.294
	80	117/116/85	21.22	174	15.94	1.331
	81	110/115	21.4	174	15.94	1.343
	82	82	21.6	174	15.94	1.355
	83	111	21.86	174	15.94	1.371
	84	120	22.26	174	15.94	1.396
	85	108/124	23.22	175	23.5	0.988
	86	107	23.41	175	23.5	0.996
	87	123	23.52	175	23.5	1.001
	88	106	23.64	175	23.5	1.006
	89	118	23.8	176	23.79	1.000
	90	122	24.11	176	23.79	1.013
	91	114	24.29	177	24.27	1.001
	92	105	24.86	178	24.84	1.001
	93	127	26.19	179	27.71	0.945
	94	126	27.72	179	27.71	1.000
	95	155	19.64	180	19.62	1.001
	96	152	19.8	180	19.62	1.009
	97	150	19.9	180	19.62	1.014
	98	136	20.19	180	19.62	1.029
	99	145	20.42	180	19.62	1.041
	100	148	21.56	180	19.62	1.099
	101	151/135	22.06	180	19.62	1.124
	102	154	22.24	180	19.62	1.134
	103	144	22.52	180	19.62	1.148
	104	147/149	22.81	180	19.62	1.163
	105	134/143	23.06	180	19.62	1.175
	106	139/140	23.32	180	19.62	1.189
	107	131	23.5	180	19.62	1.198
	108	142	23.66	180	19.62	1.206
	109	132	23.89	180	19.62	1.218
	110	133	24.3	180	19.62	1.239
	111	165	24.68	181	29.51	0.836
	112	146	24.89	181	29.51	0.843
	113	161	25.02	181	29.51	0.848
	114	153/168	25.46	181	29.51	0.863
	115	141	25.64	181	29.51	0.869
	116	130	26.01	181	29.51	0.881
	117	137	26.23	181	29.51	0.889
	118	164	26.32	181	29.51	0.892
	119	138/163/129	26.62	181	29.51	0.902
	120	160	26.78	181	29.51	0.907
	121	158	26.99	181	29.51	0.915
	122	128/166	27.81	181	29.51	0.942
	123	159	28.78	181	29.51	0.975
	124	162	29.06	181	29.51	0.985
	125	167	29.55	181	29.51	1.001
	126	156/157	30.71	182	30.69	1.001
	127	169	34.11	183	34.09	1.001
	128	188	24.25	184	24.21	1.002
	129	179	24.55	184	24.21	1.014
	130	184	25.02	184	24.21	1.033
	131	176	25.34	184	24.21	1.047
	132	186	25.76	184	24.21	1.064
	133	178	27.03	184	24.21	1.116
	134	175	27.63	184	24.21	1.141
	135	187	27.88	184	24.21	1.152
	136	182	28.1	184	24.21	1.161
	137	183	28.51	185	32.1	0.888
	138	185	28.6	185	32.1	0.891
	139	174	28.72	185	32.1	0.895
	140	177	29.17	185	32.1	0.909
	141	181	29.56	185	32.1	0.921
	142	171/173	29.8	185	32.1	0.928
	143	172	31.46	185	32.1	0.980
	144	192	31.76	185	32.1	0.989
	145	193/180	32.09	185	32.1	1.000
	146	191	32.52	185	32.1	1.013

	147	170	33.46	186	33.43	1.001
	148	190	34.04	186	33.43	1.018
	149	189	36.88	187	36.86	1.001
	150	202	29.28	188	29.26	1.001
	151	201	30.21	188	29.26	1.032
	152	204	30.91	188	29.26	1.056
	153	197	31.14	188	29.26	1.064
	154	200	31.25	188	29.26	1.068
	155	198/199	34.18	188	29.26	1.168
	156	196	34.91	189	39.72	0.879
	157	203	35.15	189	39.72	0.885
	158	195	36.58	189	39.72	0.921
	159	194	39.22	189	39.72	0.987
	160	205	39.74	189	39.72	1.001
	161	208	36.33	190	36.31	1.001
	162	207	37.36	190	36.31	1.029
	163	206	41.74	191	41.72	1.000
	164	209	43.57	192	43.55	1.000
	165	1L	9	193	11.19	0.804
	166	3L	10.19	193	11.19	0.911
	167	4L	10.3	193	11.19	0.920
	168	15L	12.94	193	11.19	1.156
	169	19L	11.69	193	11.19	1.045
	170	37L	16.69	194	15.36	1.087
	171	54L	13.07	194	15.36	0.851
	172	81L	21.42	194	15.36	1.395
	173	77L	21.86	194	15.36	1.423
	174	104L	15.94	195	19.78	0.806
	175	123L	23.5	195	19.78	1.188
	176	118L	23.79	195	19.78	1.203
	177	114L	24.27	195	19.78	1.227
	178	105L	24.84	195	19.78	1.256
	179	126L	27.71	195	19.78	1.401
	180	155L	19.62	196	26.58	0.738
	181	167L	29.51	196	26.58	1.110
	182	156/157L	30.69	196	26.58	1.155
	183	169L	34.09	196	26.58	1.283
	184	188L	24.21	196	26.58	0.911
	185	180L	32.1	197	39.19	0.819
	186	170L	33.43	197	39.19	0.853
	187	189L	36.86	197	39.19	0.941
	188	202L	29.26	197	39.19	0.747
	189	205L	39.72	197	39.19	1.014
	190	208L	36.31	197	39.19	0.927
	191	206L	41.72	197	39.19	1.065
	192	209L	43.55	197	39.19	1.111
	193	9L	11.19			ABS
	194	52L	15.36			ABS
	195	101L	19.78			ABS
	196	138L	26.58			ABS
	197	194L	39.19			ABS
	198	28L	14.42	194	15.36	0.939
	199	111L	21.85	195	19.78	1.105
	200	178L	26.99	196	26.58	1.015
	201	31L	14.26	194	15.36	0.928
	202	95L	17.75	195	19.78	0.897
	203	153L	25.43	196	26.58	0.957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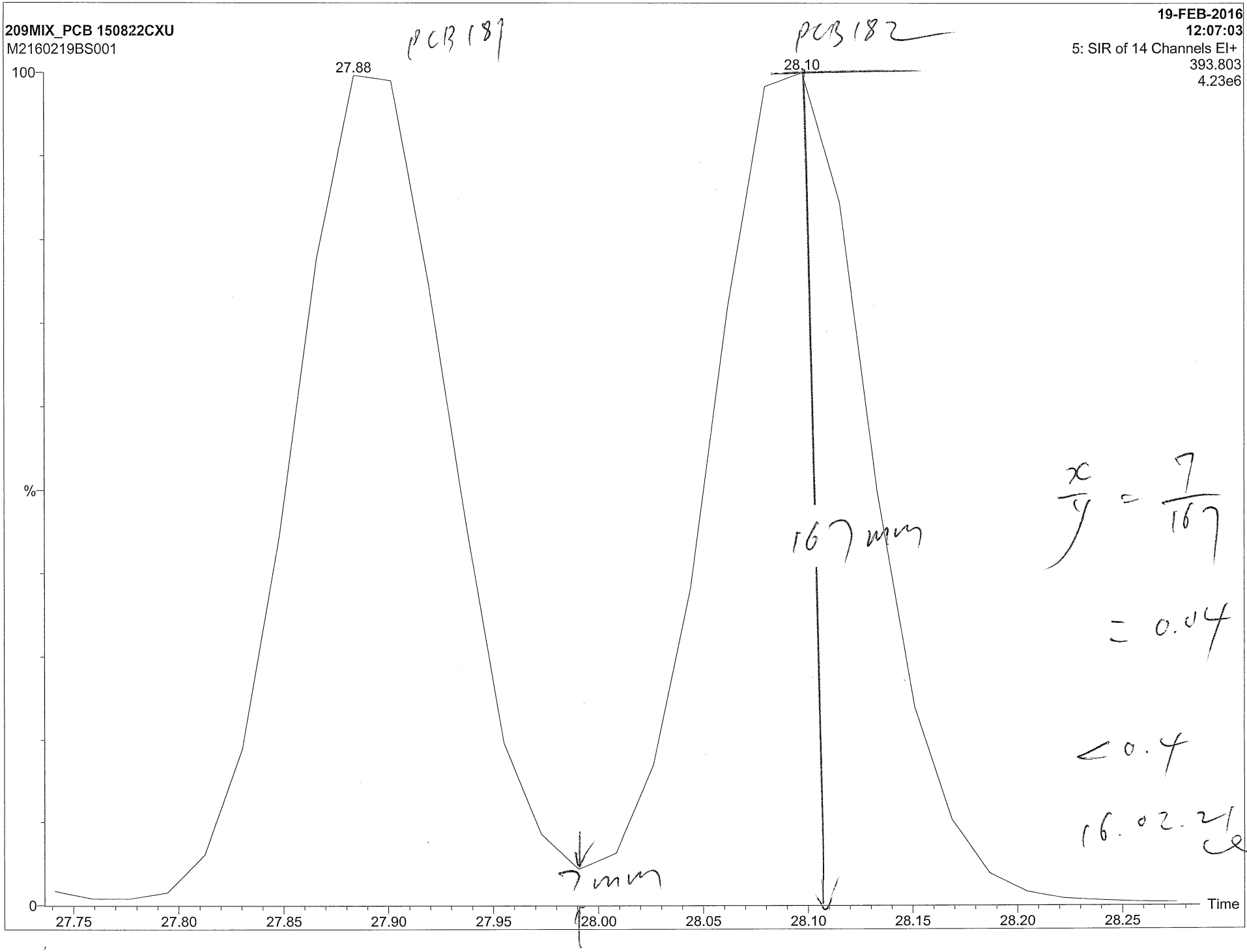
1.52e7
209MIX_PCB 150822CXU
M2160219BS001
PCB 34
13.75
PCB 23
13.84
100
%
0
21
143
Time
13.66
13.68
13.70
13.72
13.74
13.76
13.78
13.80
13.82
13.84
13.86
13.88
13.90
13.92
x/y = 21/143
= 0.15
< 0.4
16.02.21



Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

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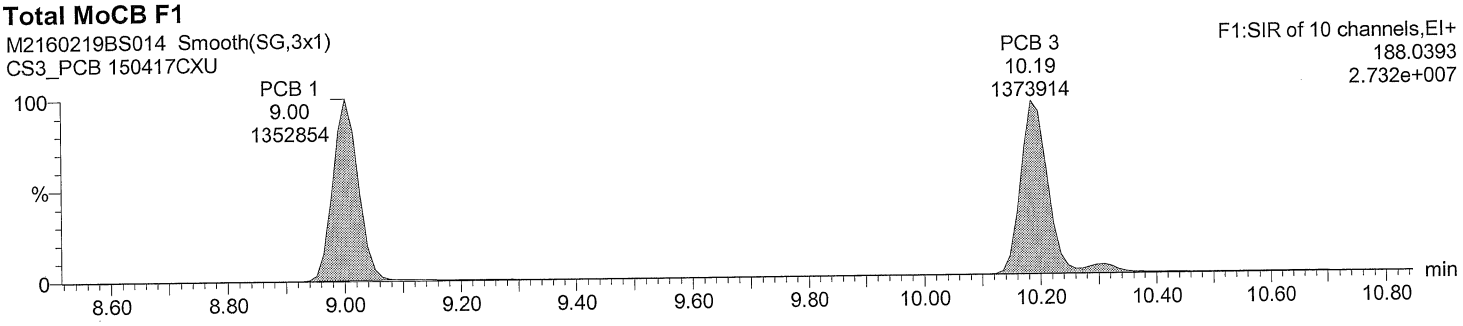
Last Altered: February 21, 2016 4:30:25 PM Eastern Standard Time
Printed: February 21, 2016 5:28:25 PM Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\EPA 1668 5PT-20160211A.mdb 16 Feb 2016 08:03:01
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\M2160211A_5PT_1668.cdb 16 Feb 2016 08:03:15

Description: CS3_PCB 150417CXU
Vial: 14
Date: 19-FEB-2016
Time: 23:00:55
Instrument: Autospec-UltimaE

Total MoCB F1



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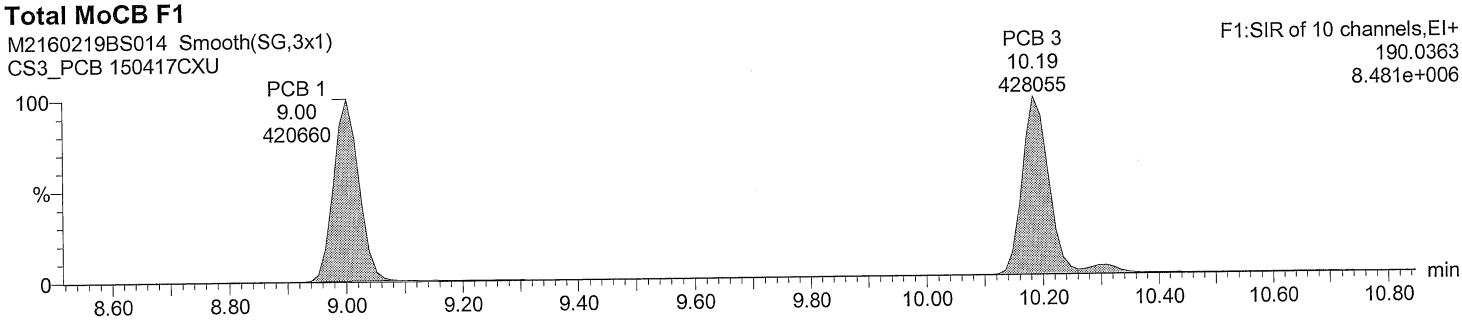
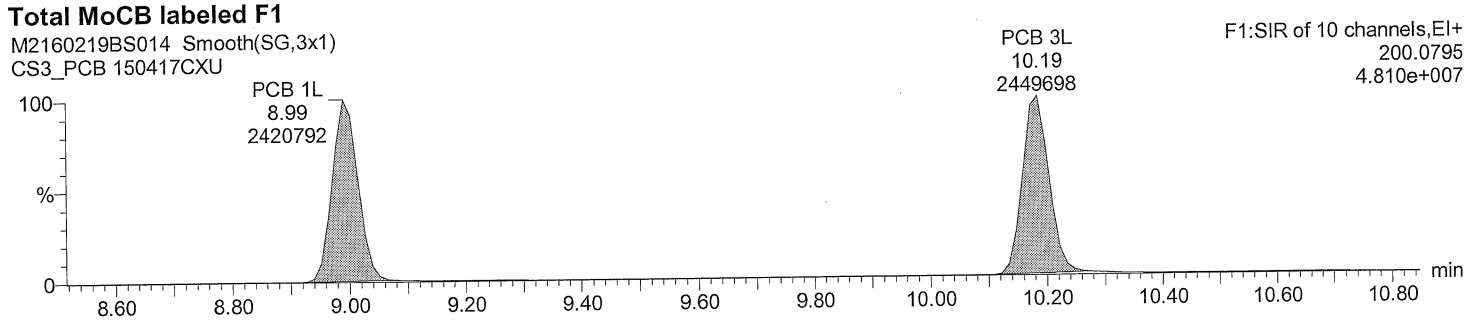


Total MoCB labeled F1



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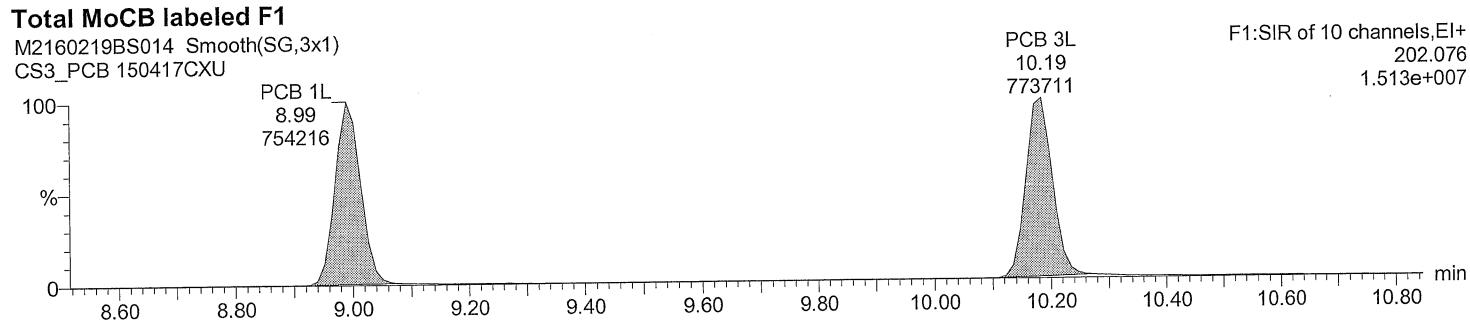

Acquired Date

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Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:19 PM Eastern Standard Time

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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\M2160211A_5PT_1668.cdb 16 Feb 2016 08:03:15

ID:
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE
Description: CS3_PCB 150417CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
1 PCB 1	9.02	1.001	1298454	413321	3.14	YES	bb	52.389	4.8	105	29	1.134
2 PCB 3	10.20	1.000	1338175	428717	3.12	YES	bd	53.118	6.2	106	30	1.146
3 PCB 4	10.31	1.000	554212	350789	1.58	YES	bb	53.075	6.1	106	31	1.013
4 PCB 15	12.96	1.002	1270625	797593	1.59	YES	db	60.554	21.1	121	32	1.054
5 PCB 19	11.69	1.000	434744	420458	1.03	YES	bb	54.635	9.3	109	33	0.982
6 PCB 37	16.71	1.000	929985	920899	1.01	YES	bb	55.381	10.8	111	34	1.003
7 PCB 54	13.09	1.002	376527	475738	0.79	YES	bb	53.463	6.9	107	35	0.974
8 PCB 81	21.45	1.001	722387	932294	0.77	YES	bb	57.371	14.7	115	36	1.178
9 PCB 77	21.90	1.001	723010	927175	0.78	YES	bb	55.874	11.7	112	37	1.204
10 PCB 104	15.95	1.001	493741	305815	1.61	YES	bb	53.029	6.1	106	38	1.161
11 PCB 123	23.54	1.001	813185	521140	1.56	YES	bd	54.562	9.1	109	39	0.976
12 PCB 118	23.82	1.001	886056	566654	1.56	YES	db	54.912	9.8	110	40	1.078
13 PCB 114	24.30	1.001	831458	531150	1.57	YES	bb	54.024	8.0	108	41	1.092
14 PCB 105	24.87	1.001	829359	531541	1.56	YES	bb	54.587	9.2	109	42	1.066
15 PCB 126	27.74	1.001	825329	508333	1.62	YES	bd	54.394	8.8	109	43	1.062
16 PCB 155	19.65	1.001	432084	334606	1.29	YES	bb	52.417	4.8	105	44	1.045
17 PCB 167	29.56	1.001	798564	633717	1.26	YES	db	55.074	10.1	110	45	1.042
18 PCB 156/157	30.73	1.001	1591436	1250189	1.27	YES	bb	109.813	9.8	110	46	1.117
19 PCB 169	34.13	1.001	760914	596009	1.28	YES	bb	54.217	8.4	108	47	1.035
20 PCB 188	24.25	1.001	386984	357513	1.08	YES	bb	53.235	6.5	106	48	1.077
21 PCB 193/180	32.16	1.001	374090	341487	1.10	YES	bb	51.276	2.6	103	49	1.168
22 PCB 170	33.48	1.001	359482	335989	1.07	YES	bb	50.454	0.9	101	50	1.283
23 PCB 189	36.88	1.001	630052	614619	1.03	YES	bb	51.733	3.5	103	51	0.976
24 PCB 202	29.29	1.001	297675	327775	0.91	YES	bb	53.230	6.5	106	52	1.051
25 PCB 205	39.77	1.001	415811	447639	0.93	YES	bb	52.660	5.3	105	53	1.149
26 PCB 208	36.33	1.001	229976	296249	0.78	YES	bb	50.312	0.6	101	54	1.030
27 PCB 206	41.74	1.001	163317	208584	0.78	YES	bb	47.944	-4.1	96	55	0.984
28 PCB 209	43.60	1.001	191601	157604	1.22	YES	bb	45.730	-8.5	91	56	0.951
29 PCB 1L	9.00	0.803	2310624	709609	3.26	YES	bb	109.344	9.3	109	63	0.901
30 PCB 3L	10.20	0.910	2351418	732419	3.21	YES	bb	107.905	7.9	108	63	0.920
31 PCB 4L	10.31	0.920	1096497	690964	1.59	YES	bb	98.244	-1.8	98	63	0.533
32 PCB 15L	12.94	1.155	2437268	1486199	1.64	YES	bb	108.918	8.9	109	63	1.170
33 PCB 19L	11.69	1.043	900150	841664	1.07	YES	bb	89.840	-10.2	90	63	0.519
34 PCB 37L	16.71	1.087	1910128	1780682	1.07	YES	bb	124.393	24.4	124	64	2.471
35 PCB 54L	13.07	0.850	779960	970748	0.80	YES	bb	90.354	-9.6	90	64	1.172
36 PCB 81L	21.44	1.394	1263539	1544892	0.82	YES	bb	108.199	8.2	108	64	1.880
37 PCB 77L	21.88	1.423	1227162	1514456	0.81	YES	bb	109.455	9.5	109	64	1.836
38 PCB 104L	15.94	0.805	852604	525170	1.62	YES	bb	93.639	-6.4	94	65	1.082
39 PCB 123L	23.52	1.188	1692144	1041882	1.62	YES	bd	110.928	10.9	111	65	2.147
40 PCB 118L	23.80	1.202	1666411	1029026	1.62	YES	db	111.087	11.1	111	65	2.117
41 PCB 114L	24.29	1.227	1554940	941629	1.65	YES	bb	110.608	10.6	111	65	1.961
42 PCB 105L	24.86	1.256	1576758	976276	1.62	YES	bb	110.033	10.0	110	65	2.005
43 PCB 126L	27.72	1.400	1556336	954228	1.63	YES	bb	113.622	13.6	114	65	1.972
44 PCB 155L	19.64	0.738	824508	643170	1.28	YES	bb	89.587	-10.4	90	66	1.257

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:19 PM Eastern Standard Time

ID:
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE
Description: CS3_PCB 150417CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
45 PCB 167L	29.53	1.110	1548685	1200803	1.29	YES	db	111.643	11.6	112	66	2.355
46 PCB 156L/157L	30.71	1.154	2859192	2229302	1.28	YES	bb	226.942	13.5	113	66	2.180
47 PCB 169L	34.11	1.282	1480382	1141852	1.30	YES	bb	119.098	19.1	119	66	2.246
48 PCB 188L	24.23	0.911	713163	668889	1.07	YES	bb	89.065	-10.9	89	66	1.184
49 PCB 180L	32.12	0.820	638701	586681	1.09	YES	bb	91.884	-8.1	92	67	1.239
50 PCB 170L	33.45	0.853	564358	520190	1.08	YES	bb	92.930	-7.1	93	67	1.097
51 PCB 189L	36.86	0.940	1319602	1229778	1.07	YES	bb	119.499	19.5	119	67	2.578
52 PCB 202L	29.28	0.747	569980	619795	0.92	YES	bb	84.759	-15.2	85	67	1.203
53 PCB 205L	39.74	1.014	725379	778127	0.93	YES	bb	99.284	-0.7	99	67	1.520
54 PCB 208L	36.31	0.926	452504	569428	0.79	YES	bb	90.693	-9.3	91	67	1.033
55 PCB 206L	41.72	1.064	333280	422316	0.79	YES	bb	100.594	0.6	101	67	0.764
56 PCB 209L	43.55	1.111	403262	331080	1.22	YES	bb	102.519	2.5	103	67	0.743
57 PCB 28L	14.42	0.938	1826470	1744812	1.05	YES	db	117.252	17.3	117	64	2.391
58 PCB 111L	21.86	1.104	1082909	667233	1.62	YES	bb	102.351	2.4	102	65	1.375
59 PCB 178L	27.01	1.015	425381	402097	1.06	YES	bb	96.723	-3.3	97	66	0.709
60 PCB 31L	14.26	0.927	1780363	1686070	1.06	YES	bd	119.985	20.0	120	64	2.321
61 PCB 95L	17.77	0.897	731087	452883	1.61	YES	bb	98.282	-1.7	98	65	0.930
62 PCB 153L	25.44	0.956	791019	613248	1.29	YES	bb	98.197	-1.8	98	66	1.203
63 PCB 9L	11.21	0.000	2060856	1292100	1.59	YES	bb	178.768	78.8	179	0	33529...
64 PCB 52L	15.38	0.000	662782	830789	0.80	YES	bb	151.544	51.5	152	0	14935...
65 PCB 101L	19.80	0.000	783882	489308	1.60	YES	bb	143.344	43.3	143	0	12731...
66 PCB 138L	26.60	0.000	658884	508384	1.30	YES	bb	144.597	44.6	145	0	11672...
67 PCB 194L	39.19	0.000	480696	508233	0.95	YES	bb	151.418	51.4	151	0	9889....
68 Total MoCB F1								105.507			29	
69 Total MoCB labeled ...								217.249			63	
70 Total DiCB F1								53.075			31	
71 Total DiCB labeled F1								98.244			63	
72 Total DiCB F2								60.554			32	
73 Total DiCB labeled F2								287.687			63	
74 Total TriCB F2								54.635			33	
75 Total TriCB labeled F2								89.840			63	
76 Total TriCB F3								55.381			34	
77 Total TriCB labeled F3								361.630			64	
78 Total TeCB F2								53.463			35	
79 Total TeCB labeled F2								90.354			64	
80 Total TeCB F3											35	
81 Total TeCB labeled F3								151.544			64	
82 Total TeCB F4								113.246			36	
83 Total TeCB labeled F4								217.653			64	
84 Total PeCB F3								53.029			38	
85 Total PeCB labeled F3								93.639			65	
86 Total PeCB F4											39	
87 Total PeCB labeled F4								343.977			65	
88 Total PeCB F5								272.480			39	
89 Total PeCB labeled F5								556.277			65	
90 Total HxCB F4								52.417			44	
91 Total HxCB labeled F4								89.587			66	
92 Total HxCB F5											45	

AutoSpec Ultima - M2

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:19 PM Eastern Standard Time

ID:
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE
Description: CS3_PCB 150417CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
93 Total HxCB labeled F5								242.794			66	
94 Total HxCB F6								219.105			45	
95 Total HxCB labeled F6								457.683			66	
96 Total HpCB F5								53.235			48	
97 Total HpCB labeled ...								185.788			67	
98 Total HpCB F6								101.730			49	
99 Total HpCB labeled ...								184.814			67	
100 Total HpCB F7								51.733			51	
101 Total HpCB labeled ...								119.499			67	
102 Total OcCB F6								53.230			52	
103 Total OcCB labeled ...								84.759			67	
104 Total OcCB F7								52.660			53	
105 Total OcCB labeled ...								250.702			67	
106 Total NoCB F7								98.256			54	
107 Total NoCB labeled ...								191.287			67	
108 Total DeCB F7								45.730			56	
109 Total DeCB labeled ...								102.519			67	
110 lockmass F1											0	
111 lockmass F2											0	
112 lockmass F3											0	
113 lockmass F4											0	
114 lockmass F5											0	
115 lockmass F6											0	
116 lockmass F7											0	

Acquired Date

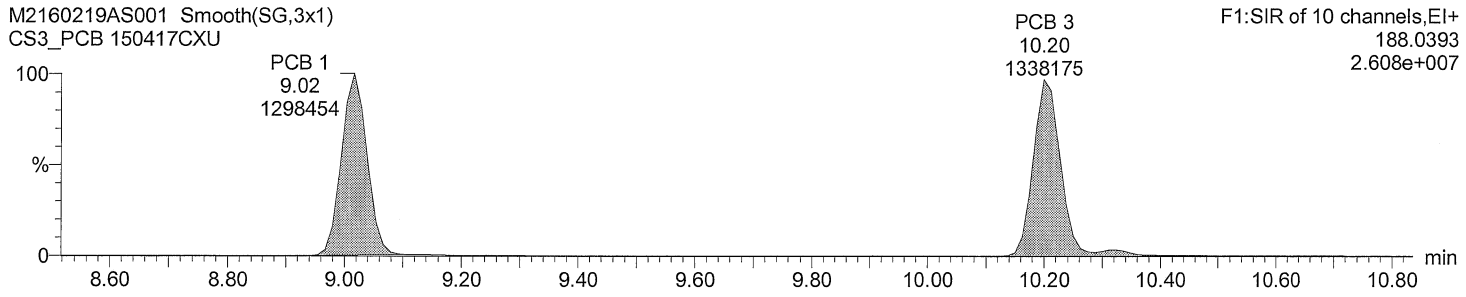
Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

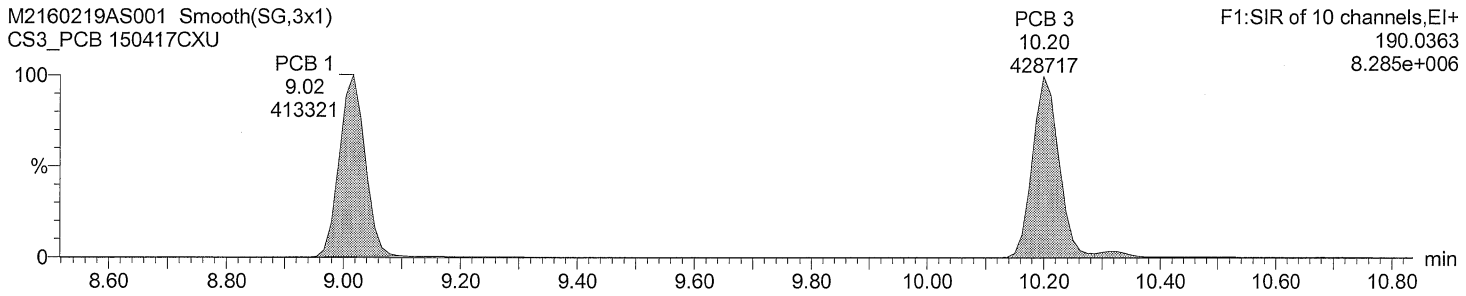
Method: C:\MassLynx\Default.pro\Methdb\EPA 1668 5PT-20160211A.mdb 16 Feb 2016 08:03:01
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\M2160211A_5PT_1668.cdb 16 Feb 2016 08:03:15

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

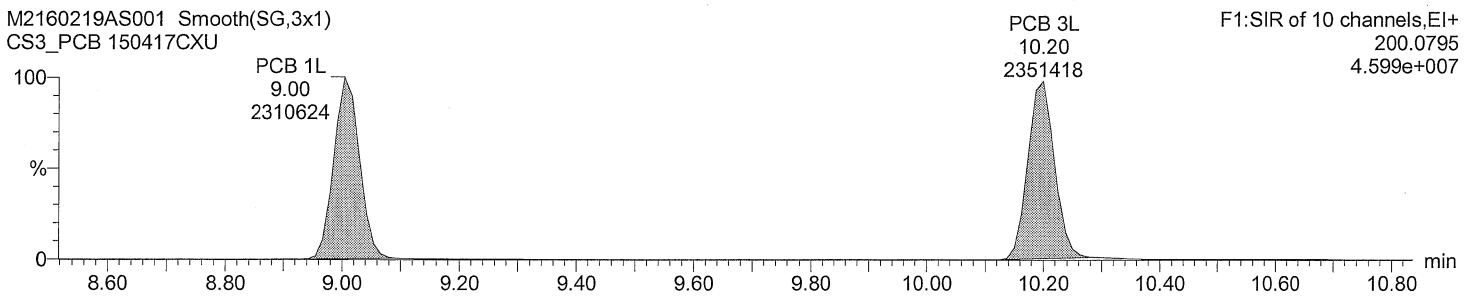
Total MoCB F1



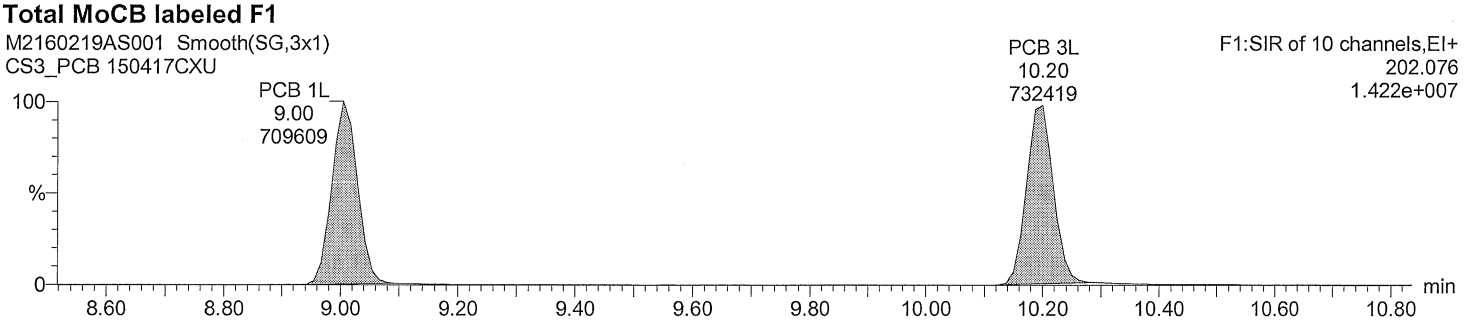
Total MoCB F1



Total MoCB labeled F1



Total MoCB labeled F1



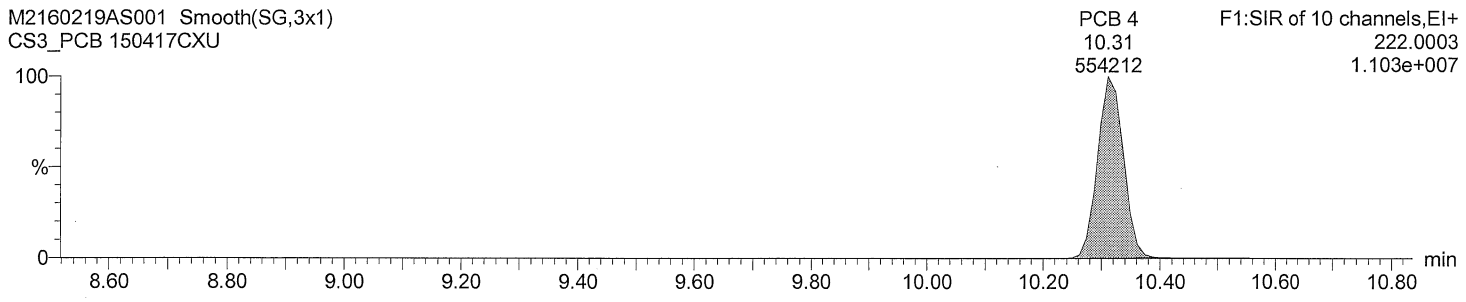
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

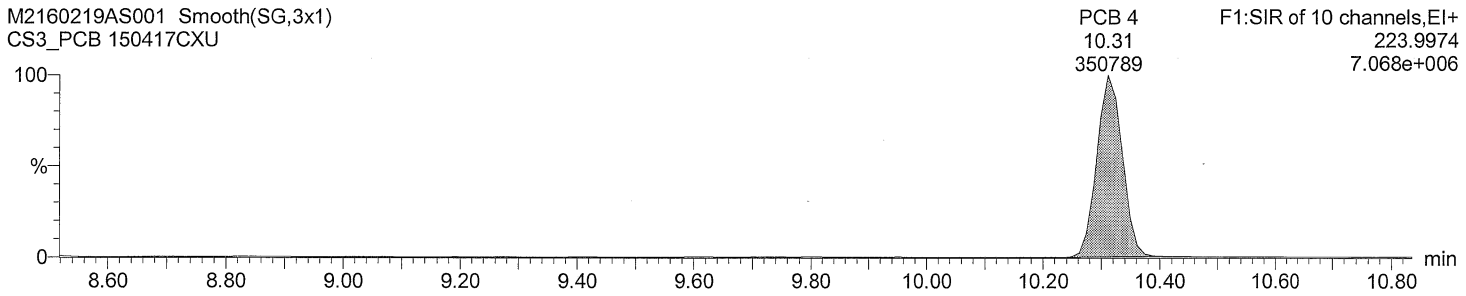
Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

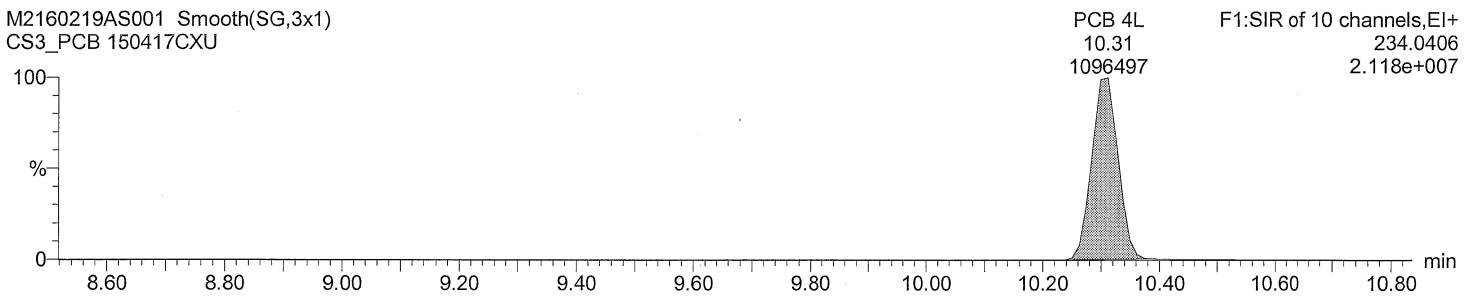
Total DiCB F1



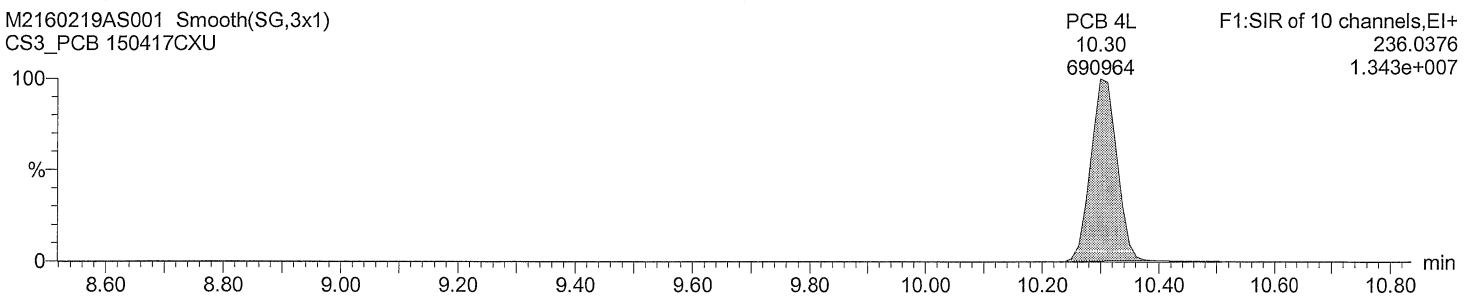
Total DiCB F1



Total DiCB labeled F1



Total DiCB labeled F1



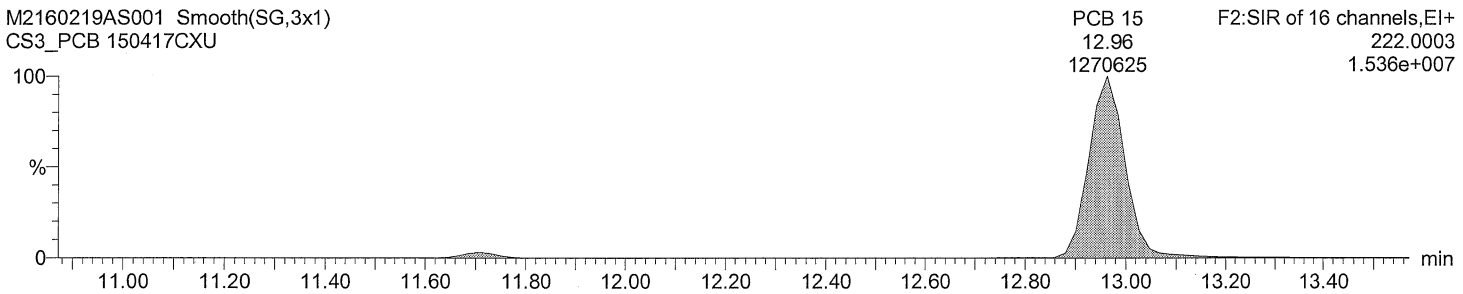
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

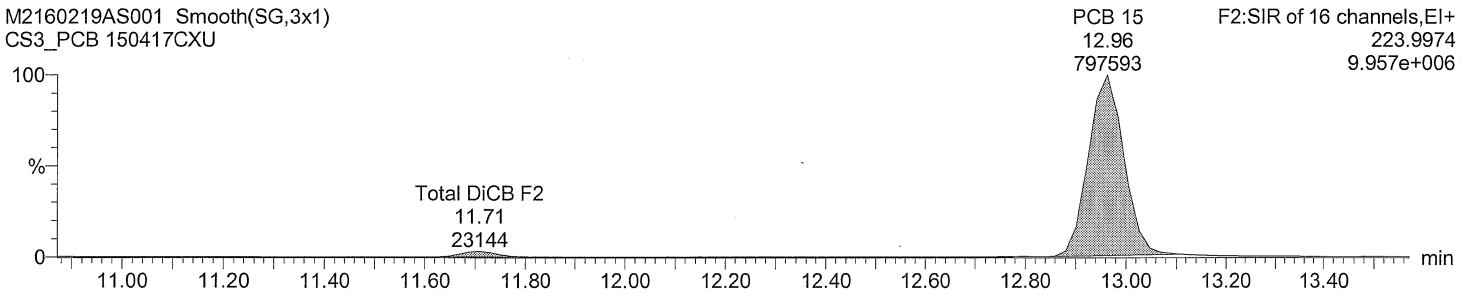
Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

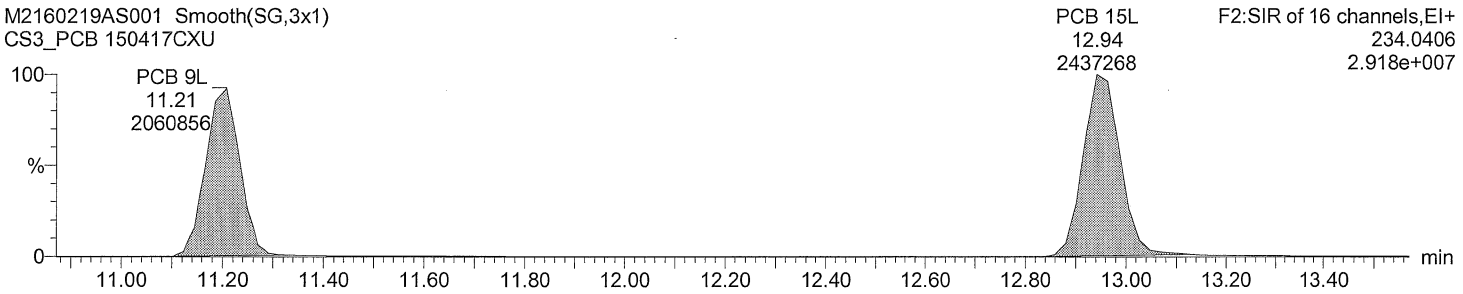
Total DiCB F2



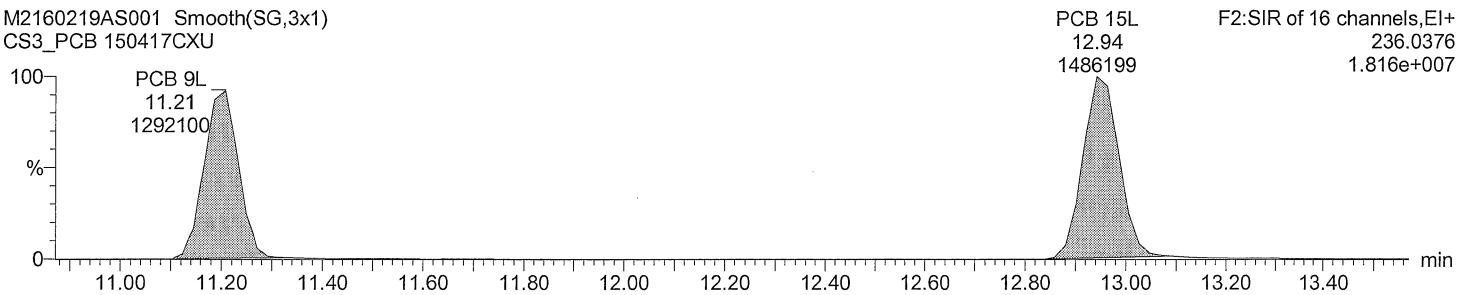
Total DiCB F2



Total DiCB labeled F2



Total DiCB labeled F2



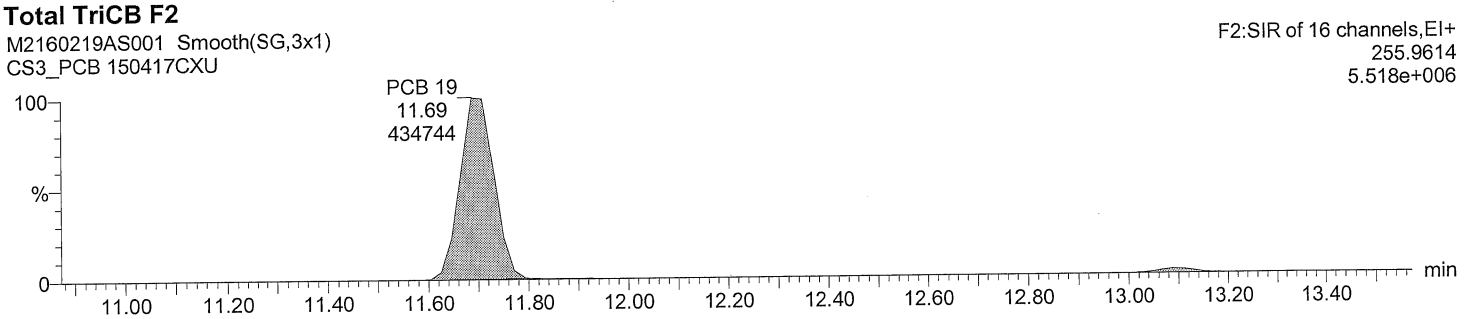
Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

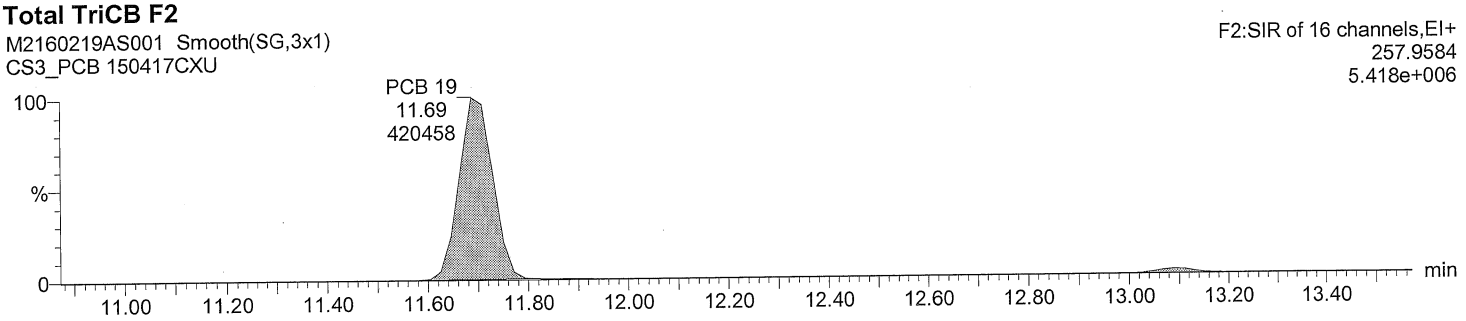
Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

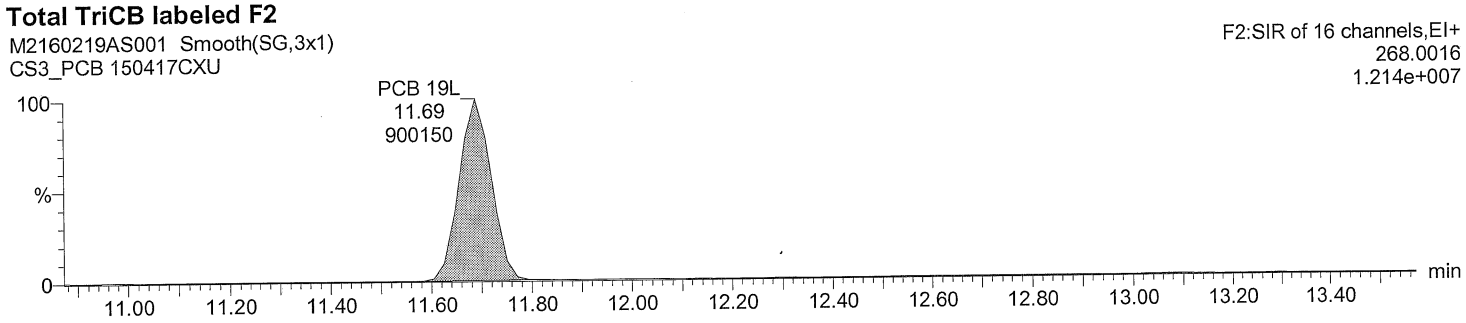
Total TriCB F2
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



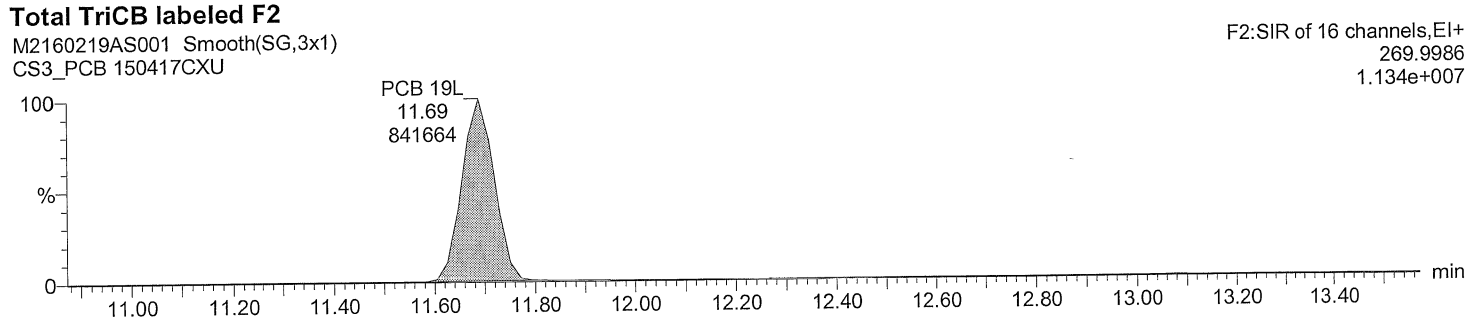
Total TriCB F2
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



Total TriCB labeled F2
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



Total TriCB labeled F2
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



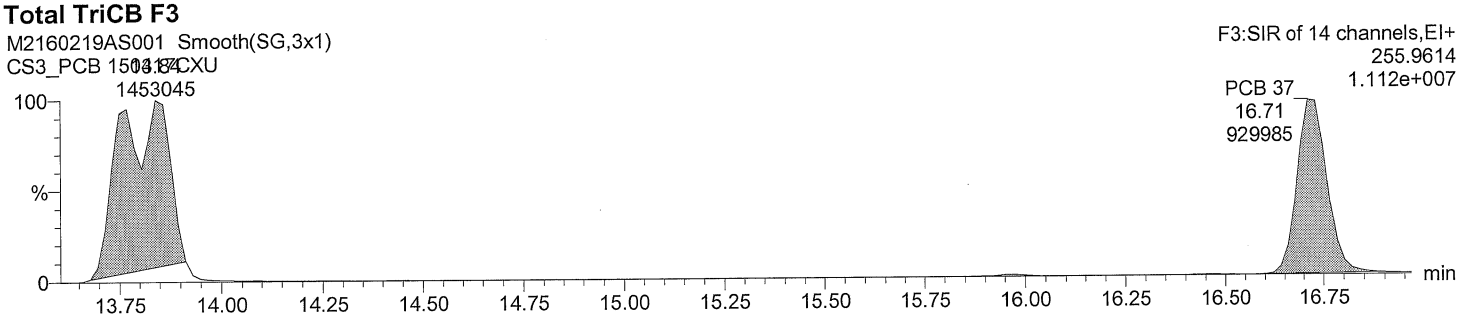
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

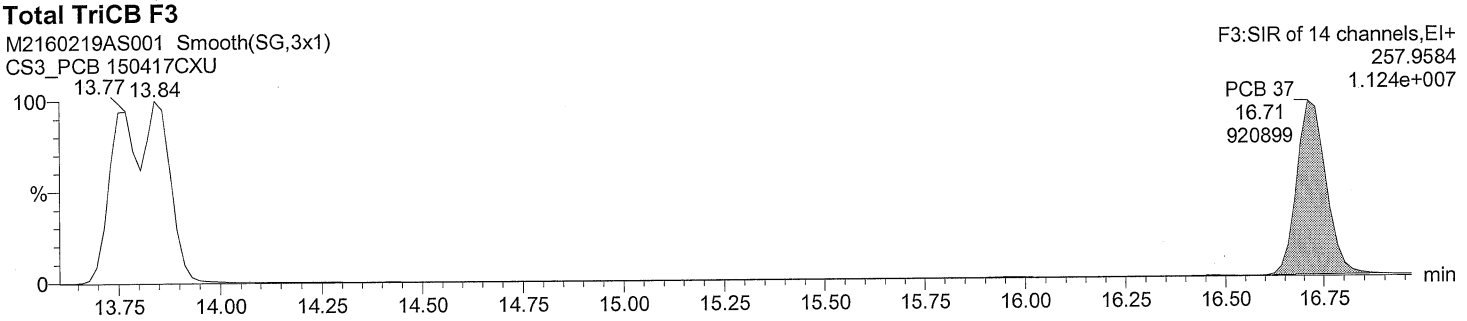
Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

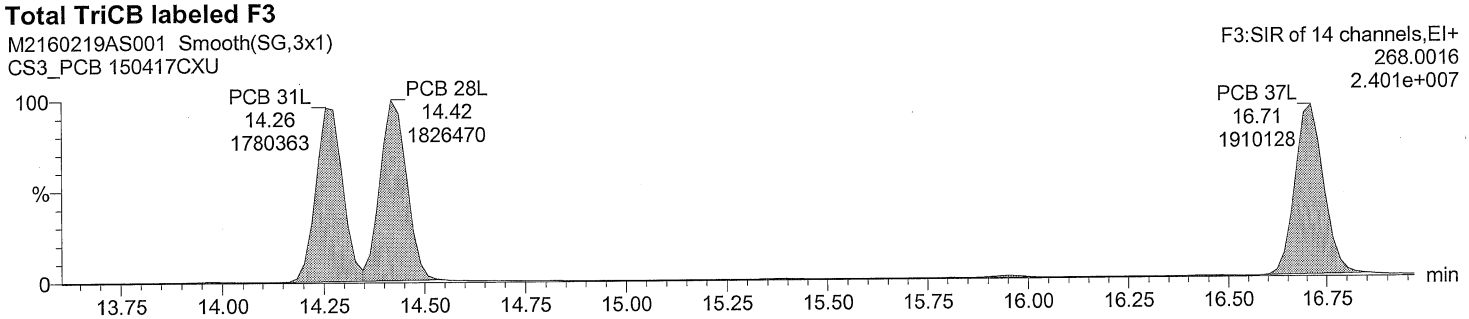
Total TriCB F3



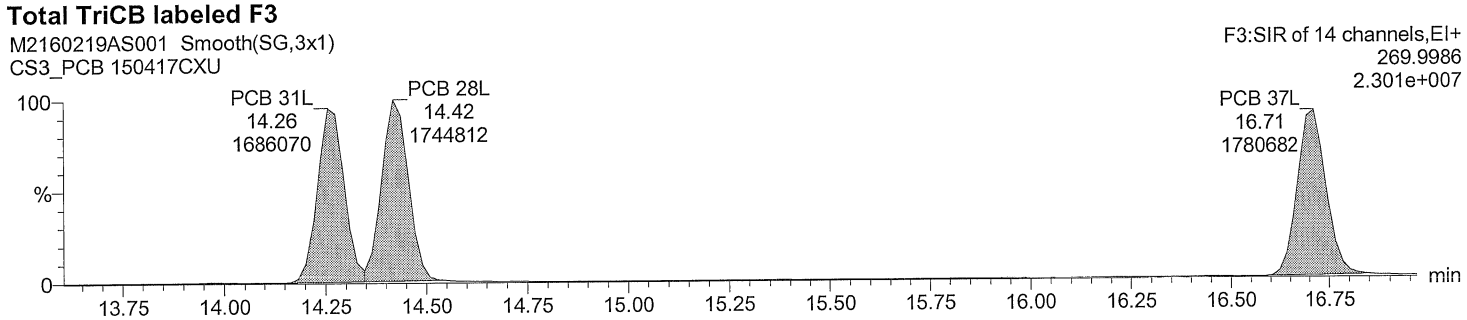
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



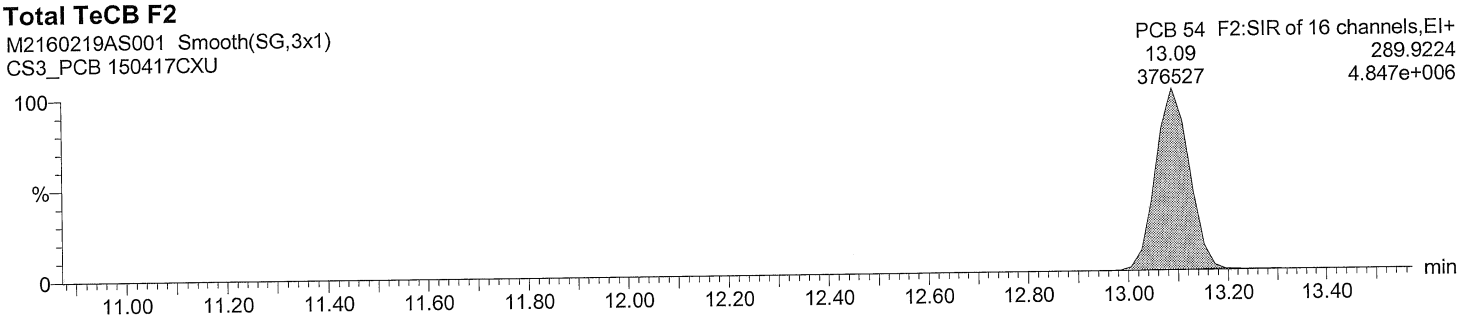
Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

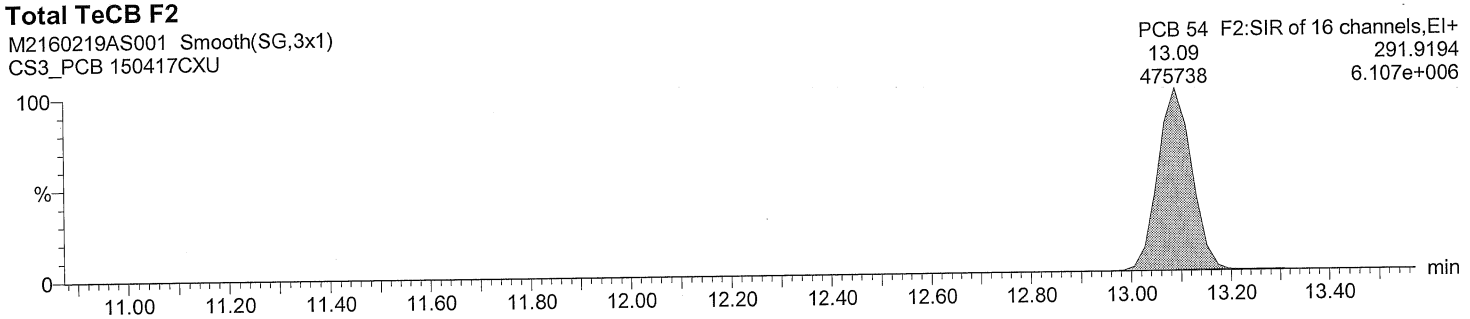
Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

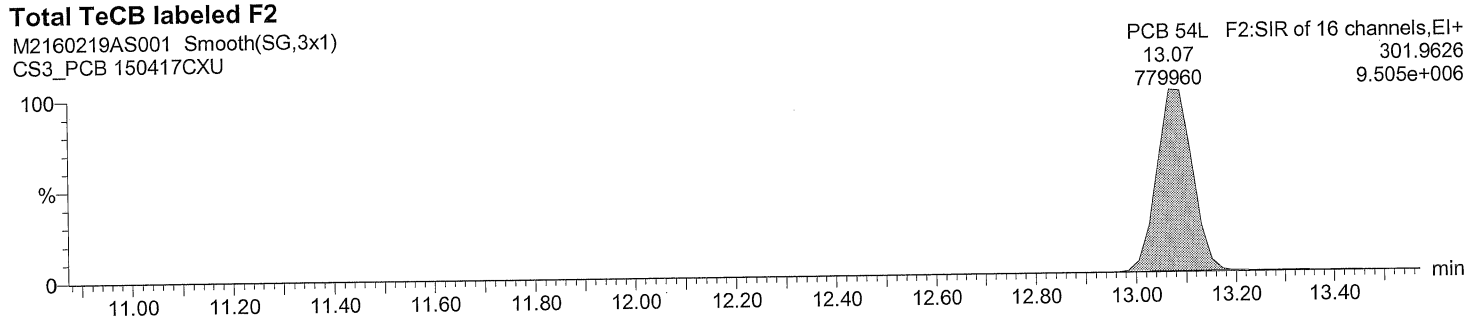
Total TeCB F2
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



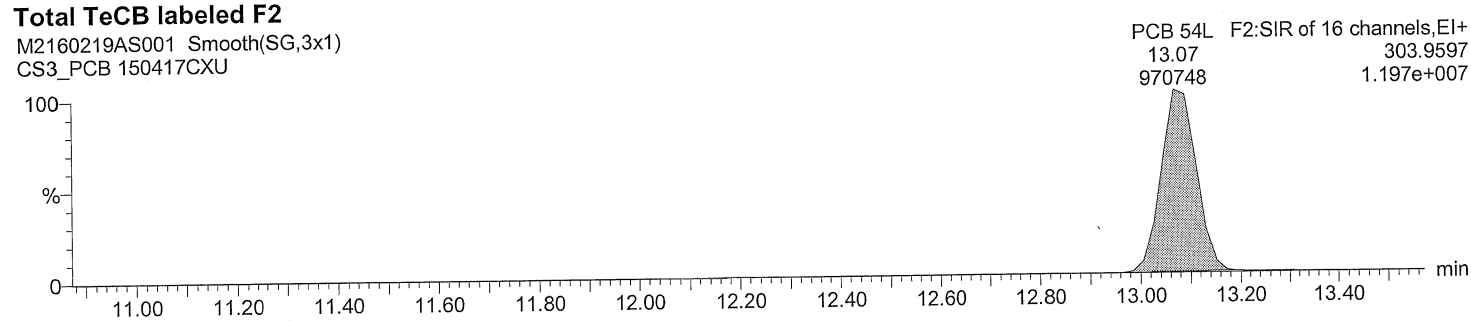
Total TeCB F2
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



Total TeCB labeled F2
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



Total TeCB labeled F2
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



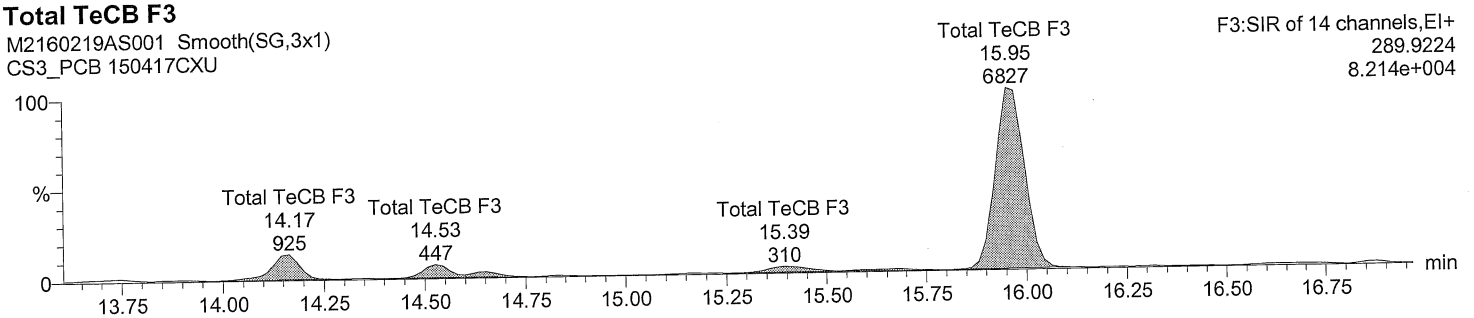
Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

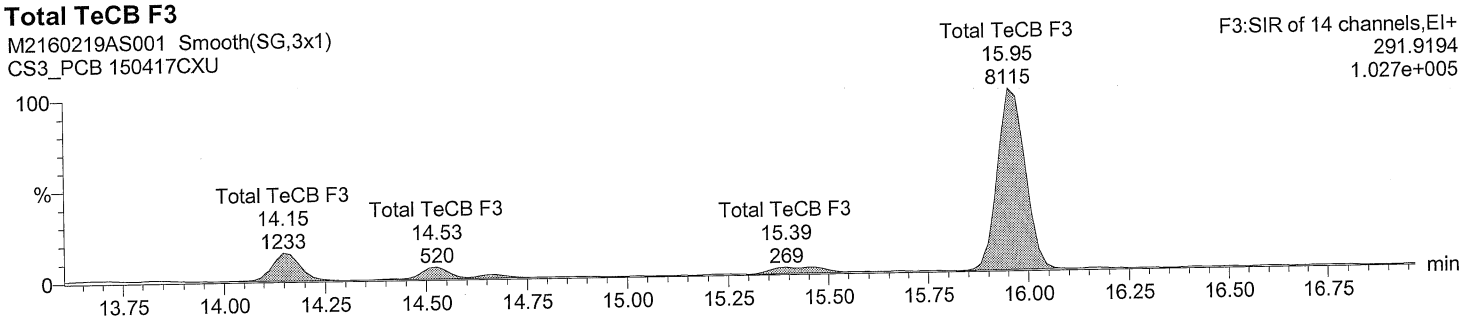
Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

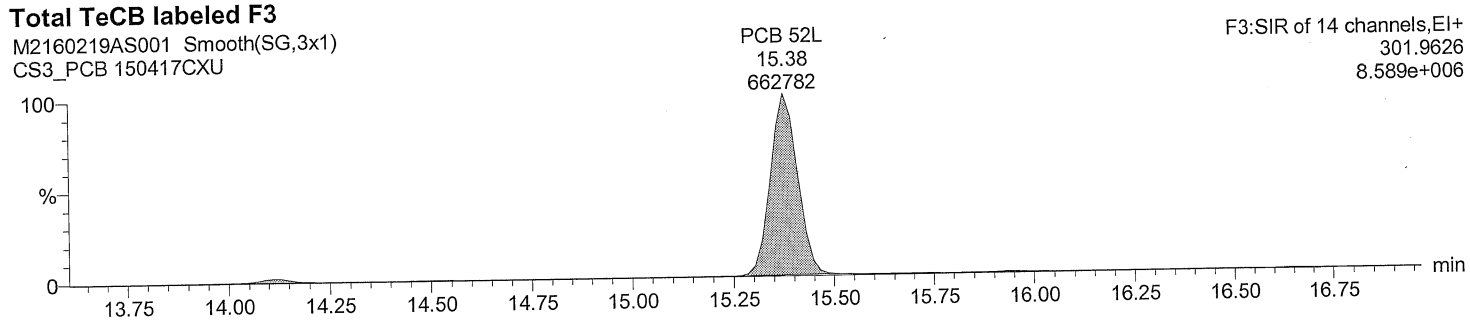
Total TeCB F3
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



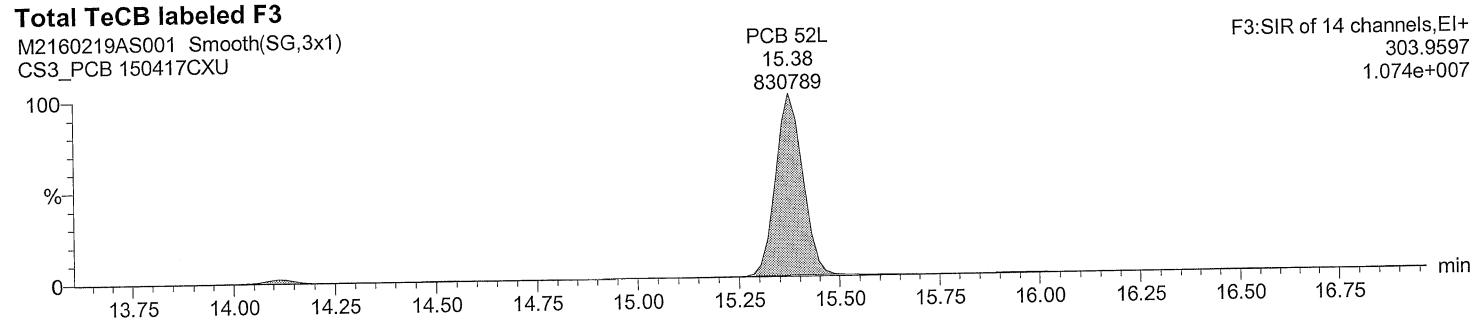
Total TeCB F3
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



Total TeCB labeled F3
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU



Total TeCB labeled F3
M2160219AS001 Smooth(SG,3x1)
CS3_PCB 150417CXU

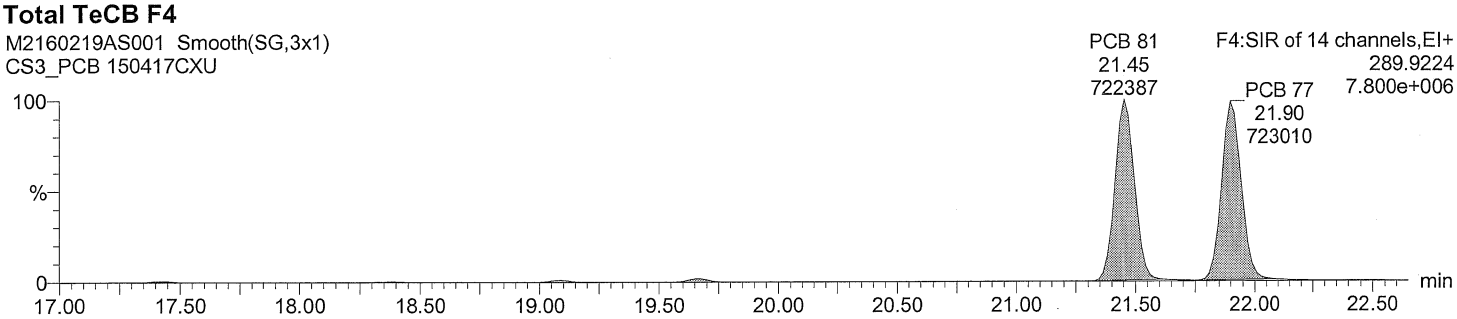


Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

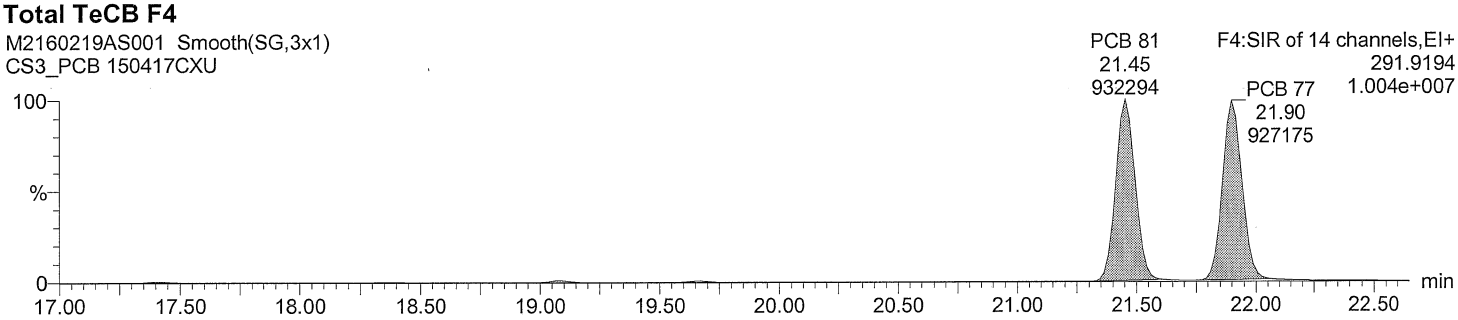
Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

Total TeCB F4



Total TeCB F4



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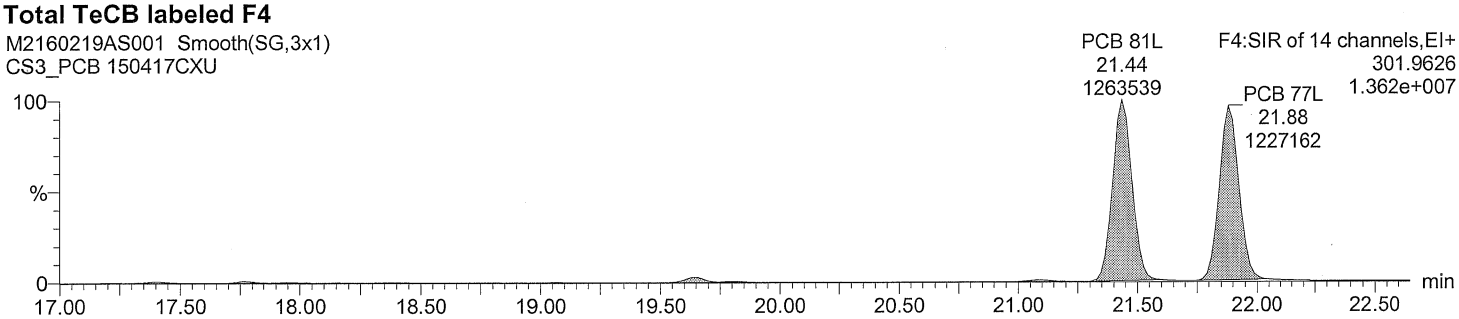

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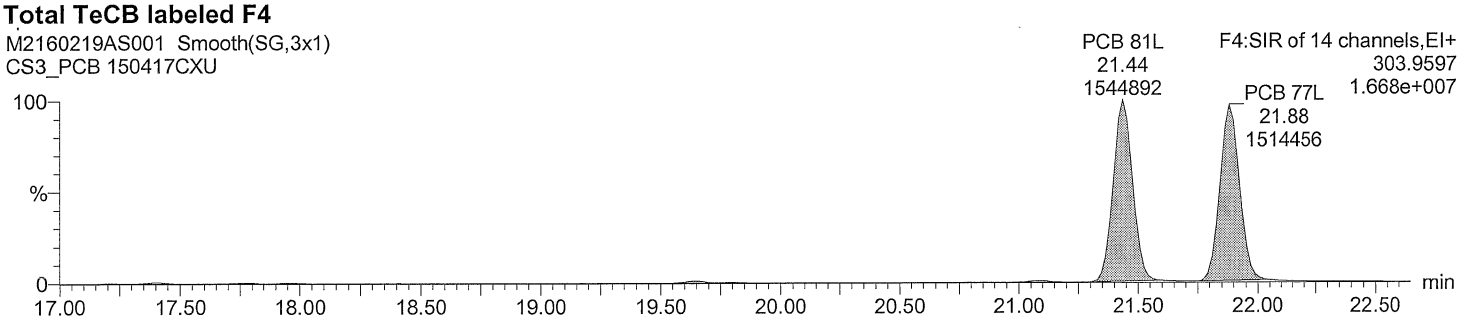

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Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

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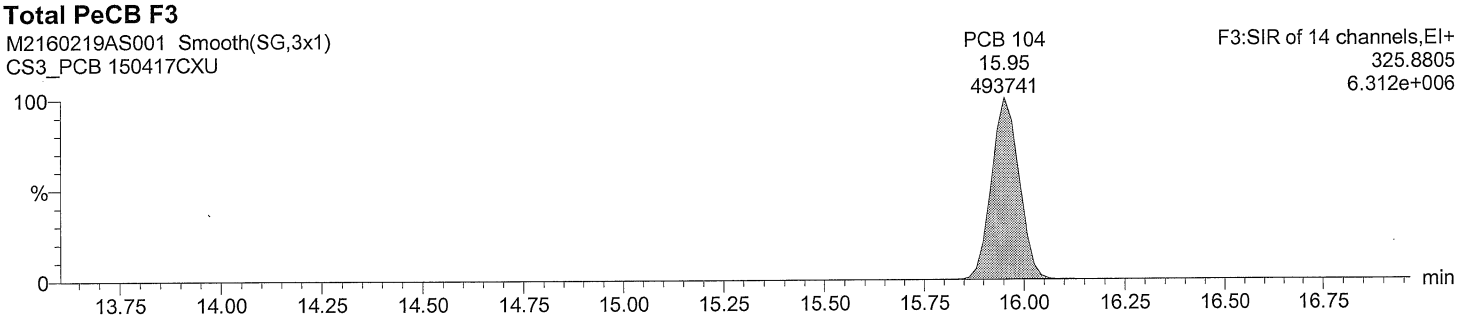

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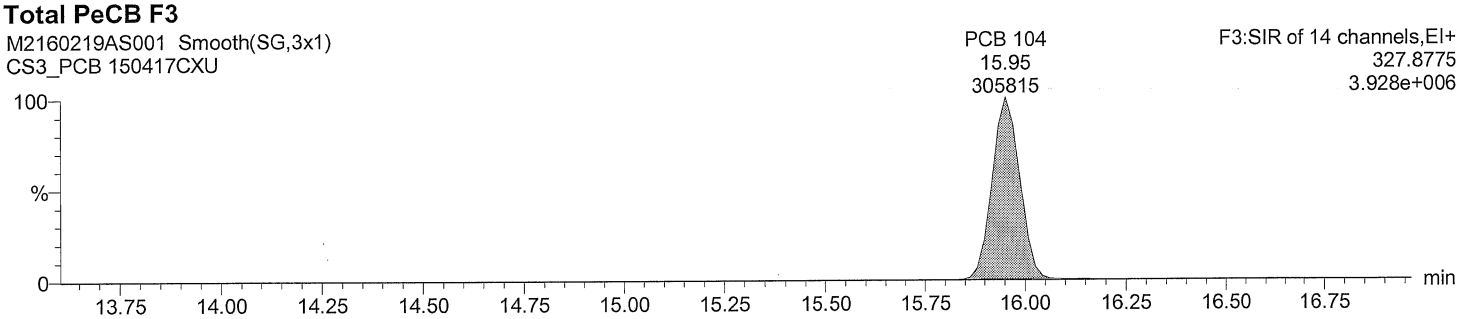

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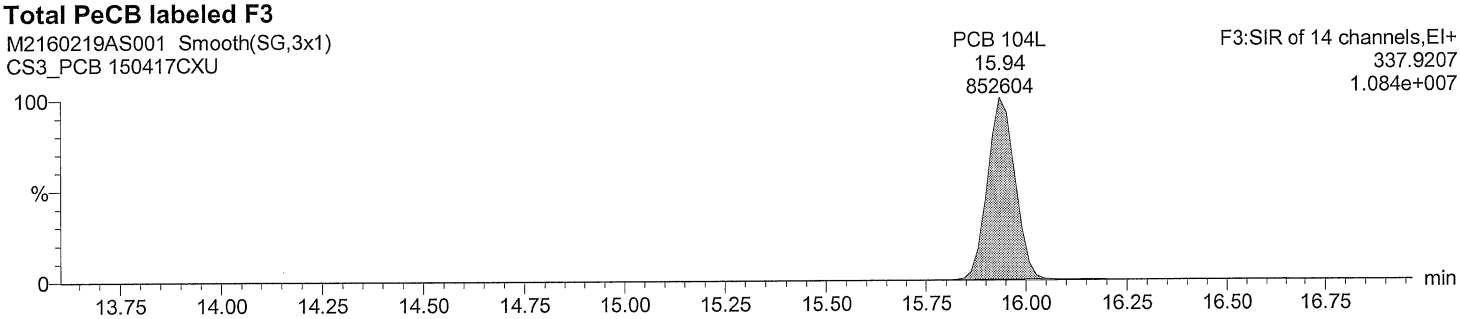

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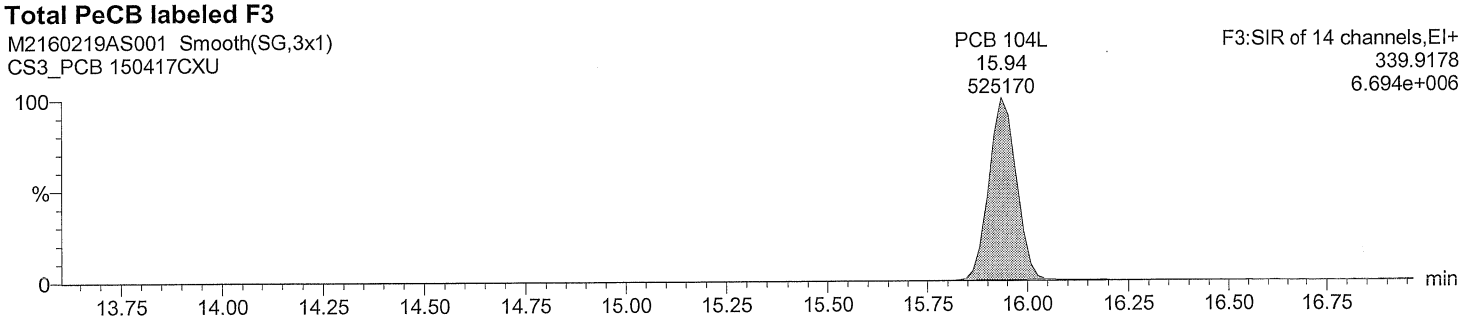

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Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

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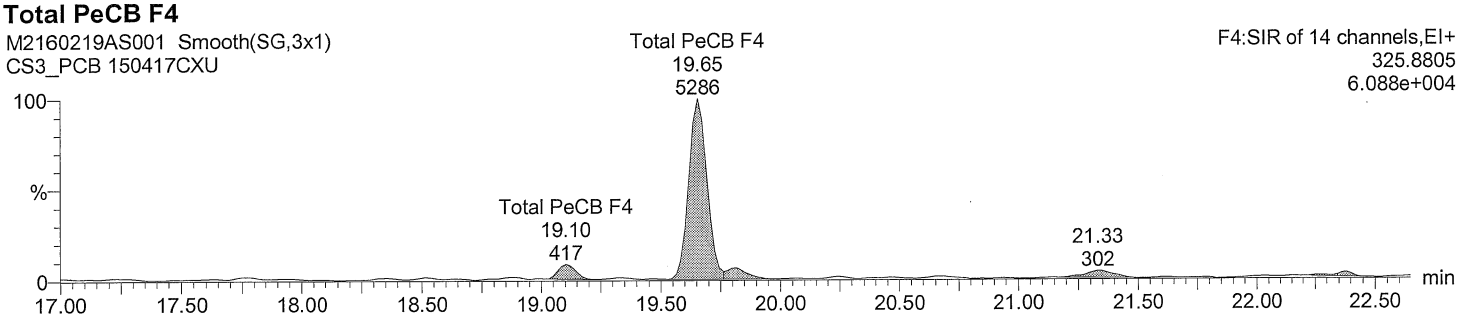

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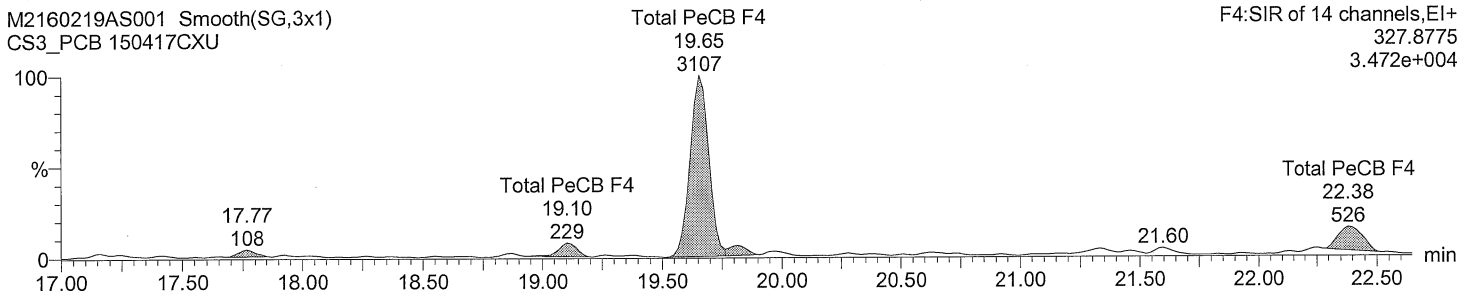

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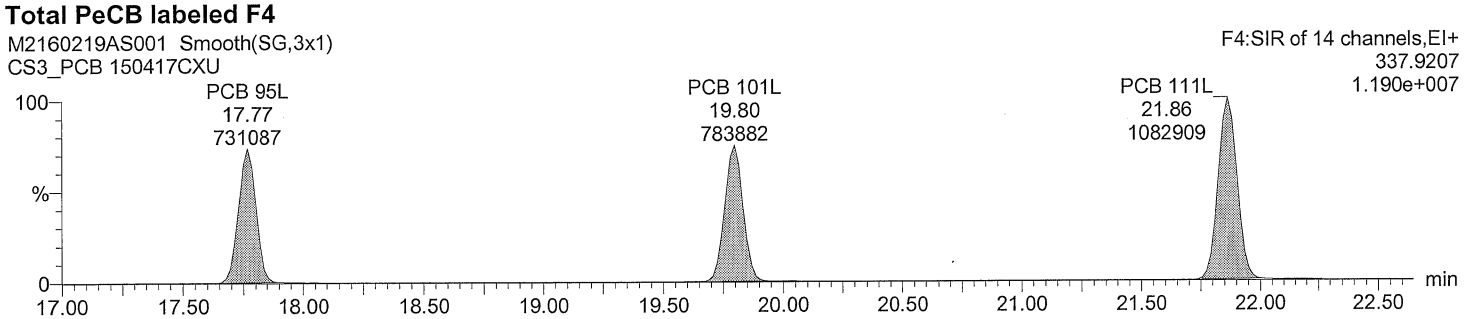

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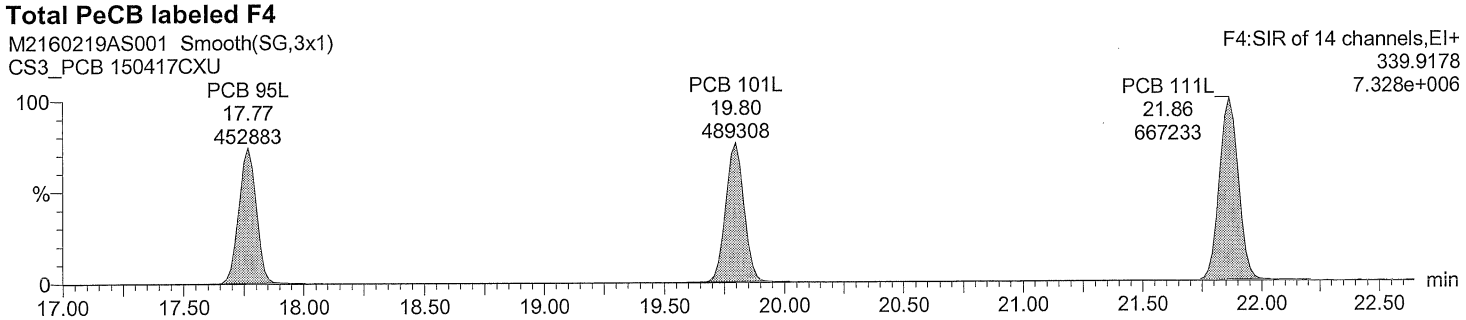

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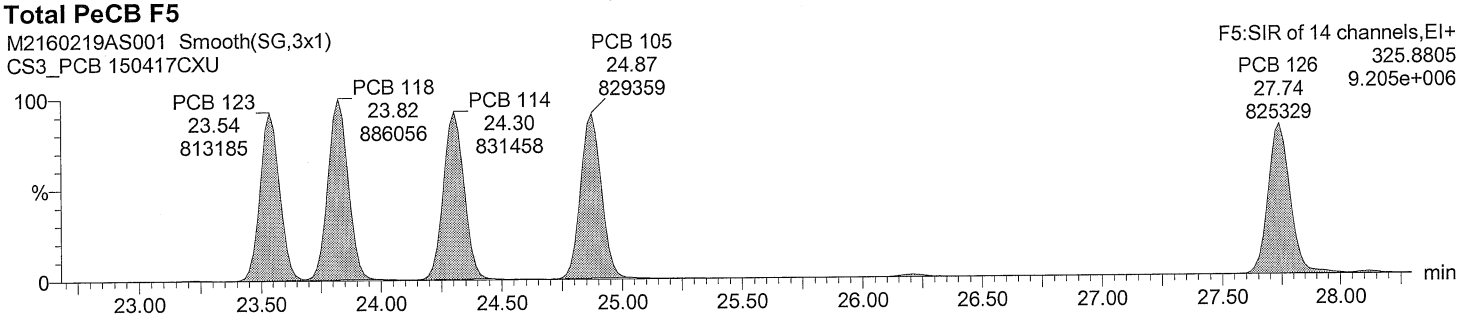

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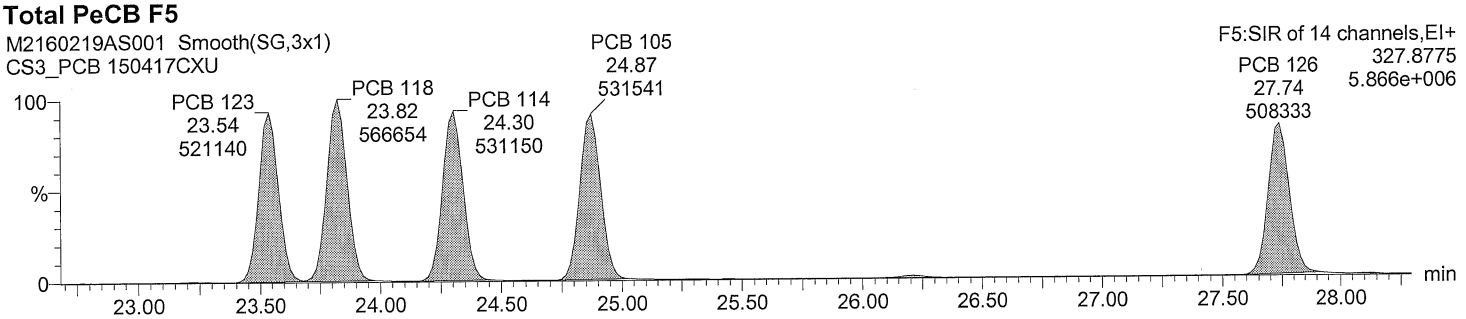

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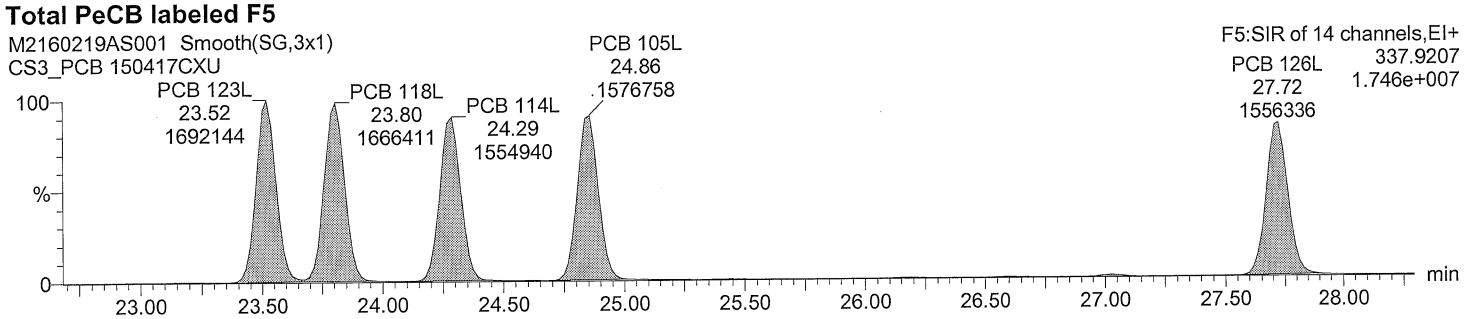

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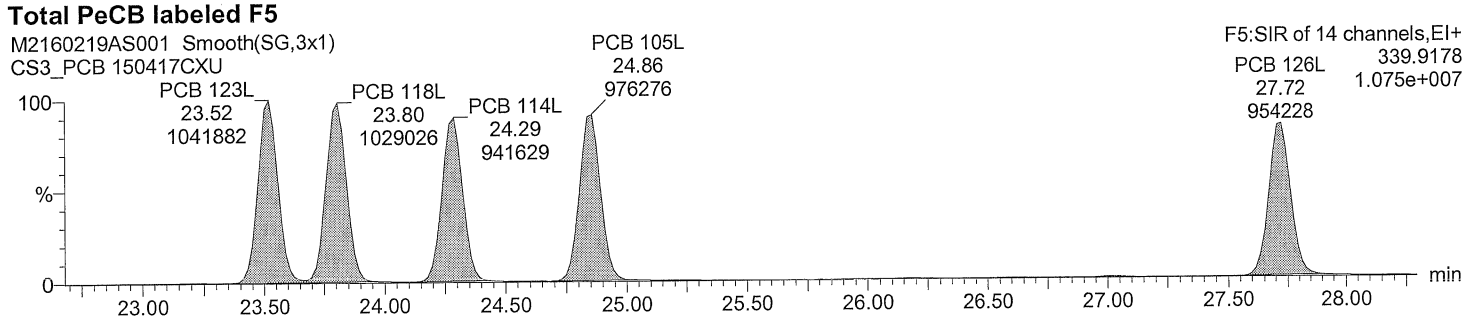

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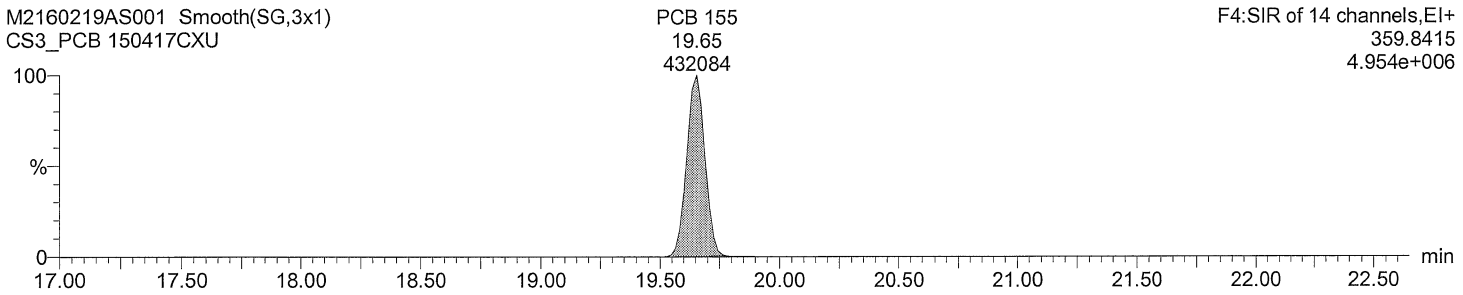

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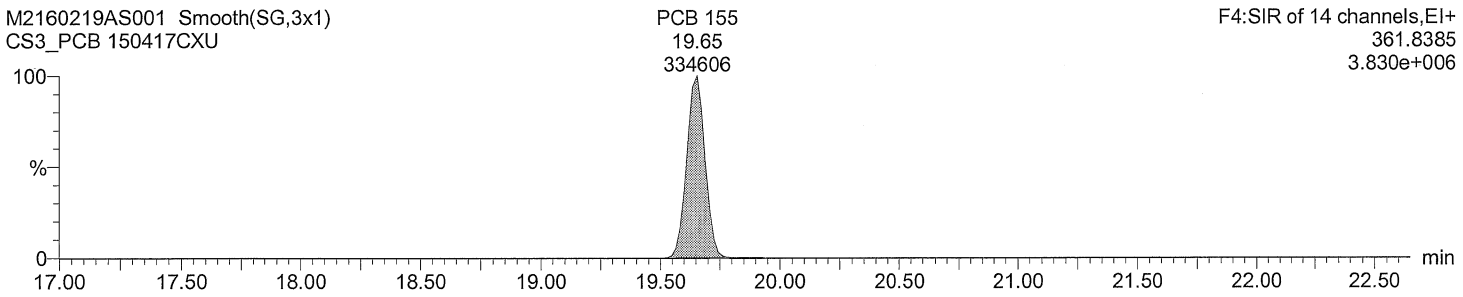

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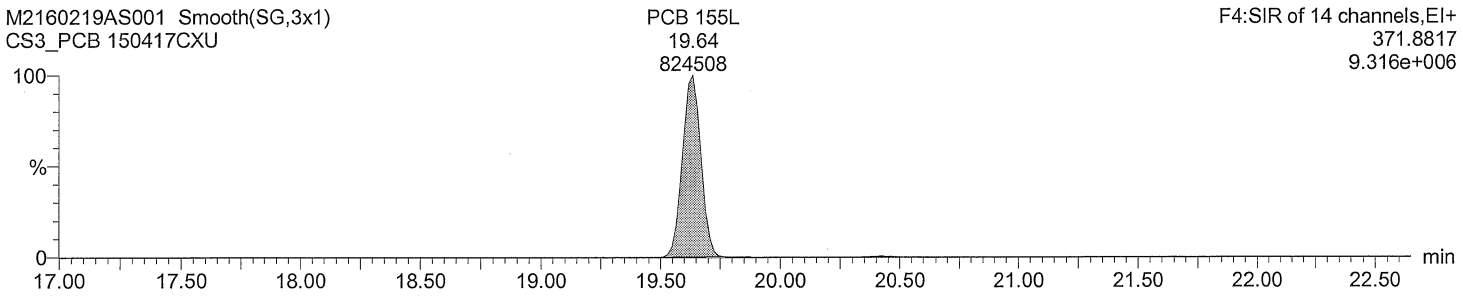

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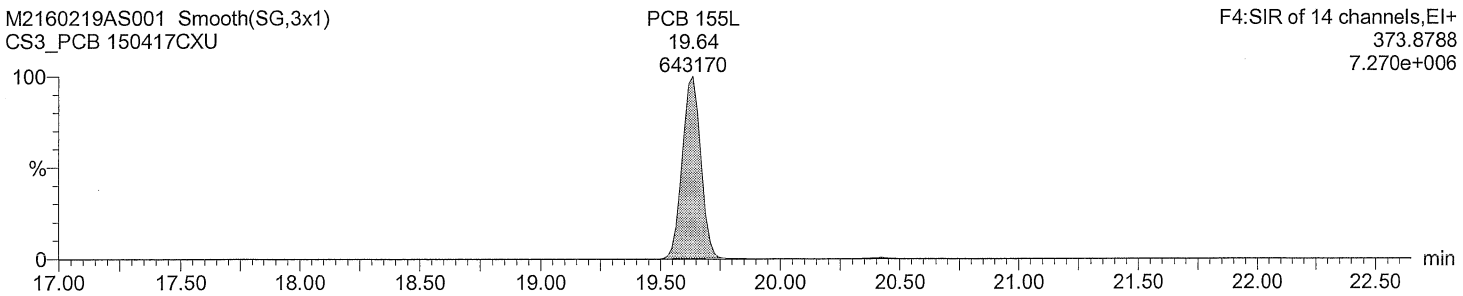

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Time: 11:13:56
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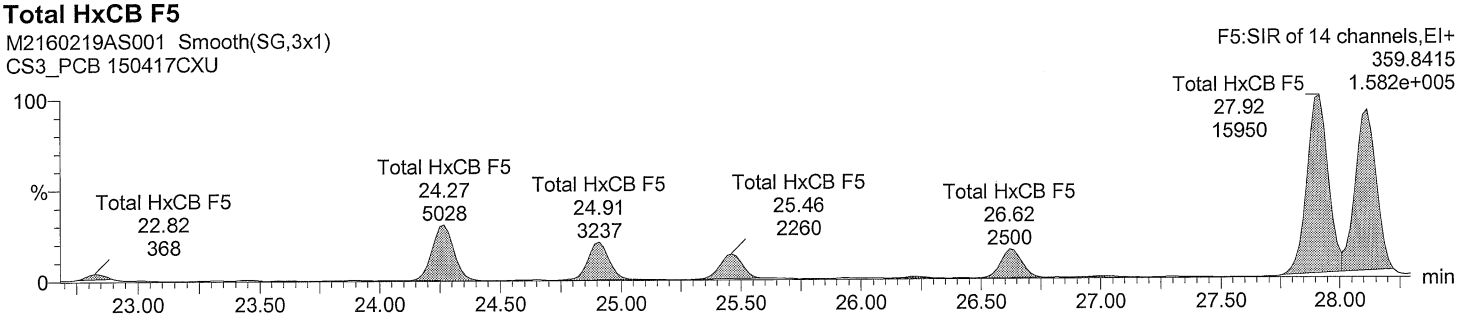

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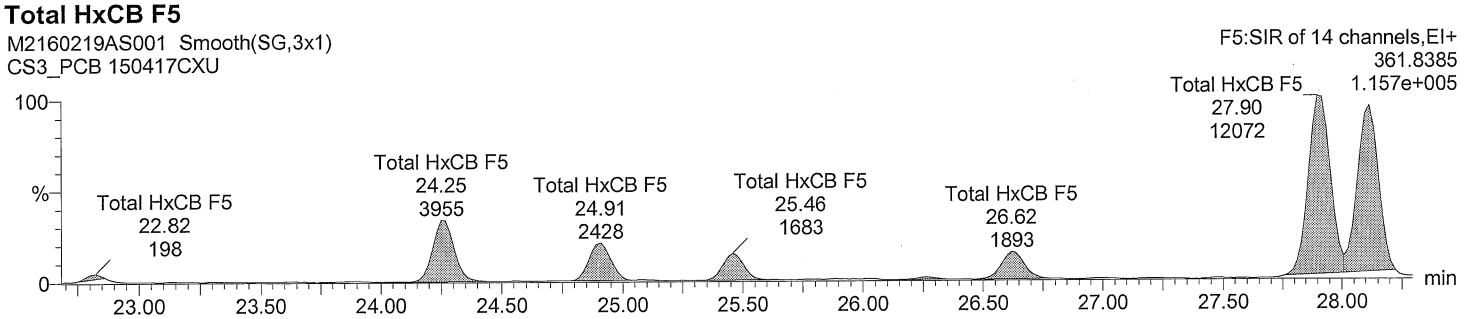

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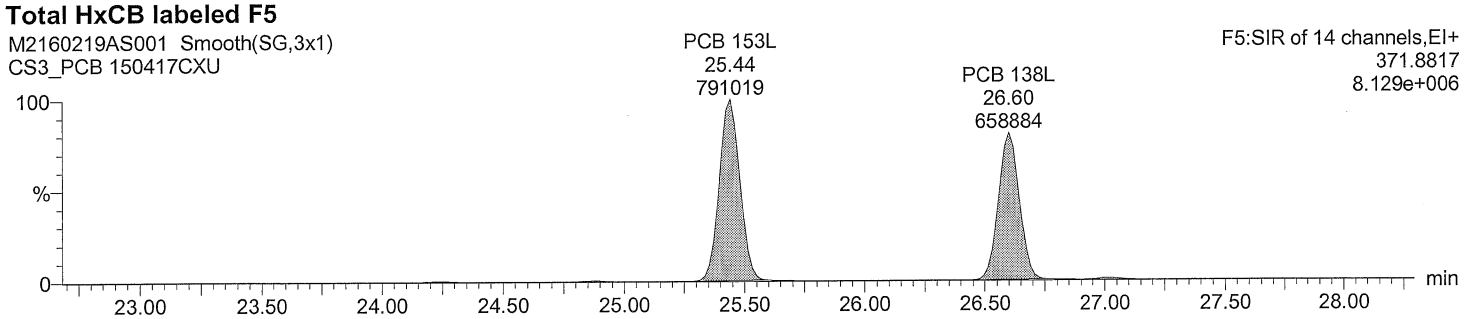

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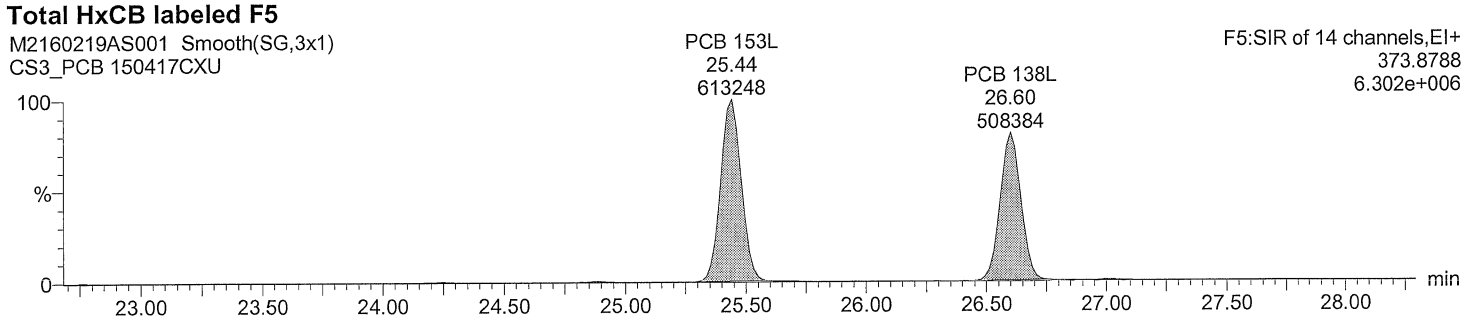

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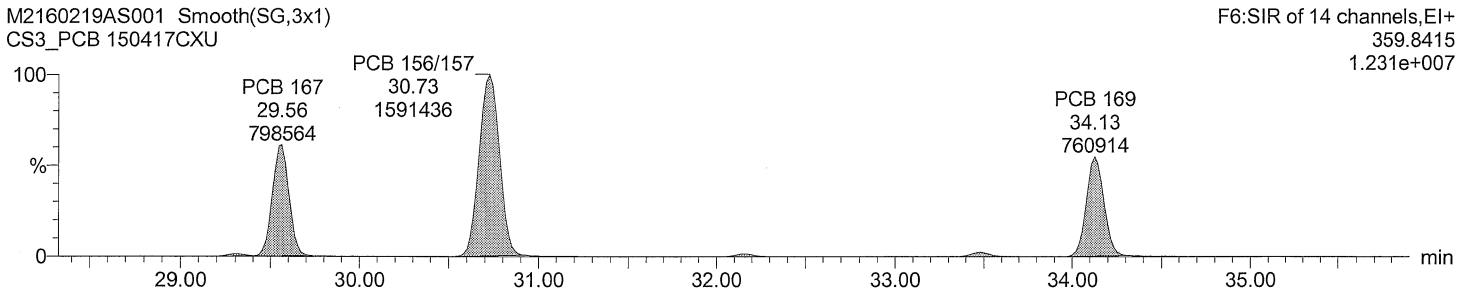

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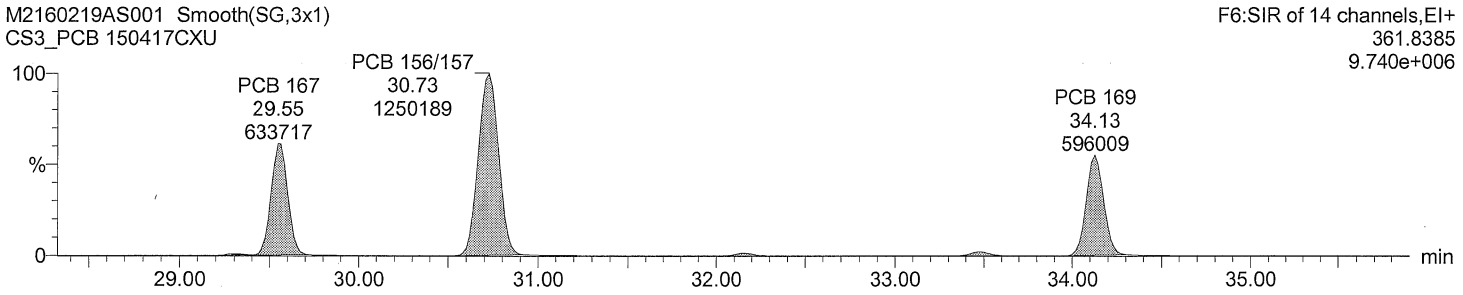

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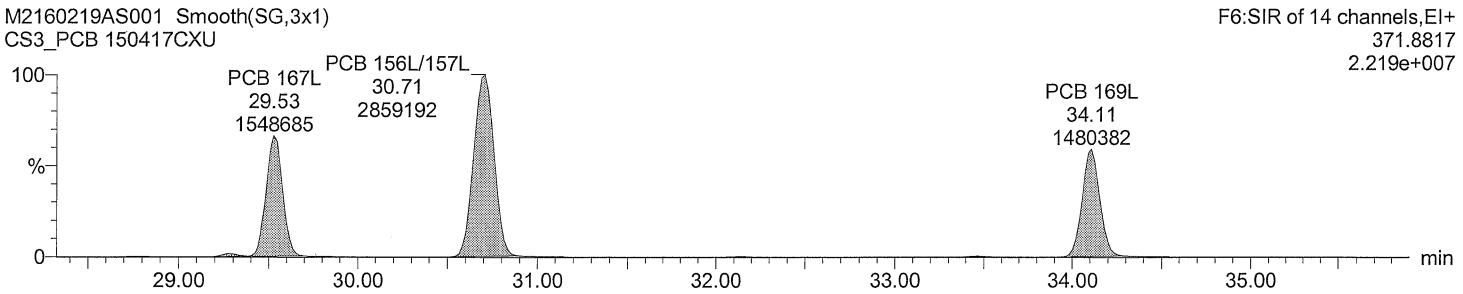

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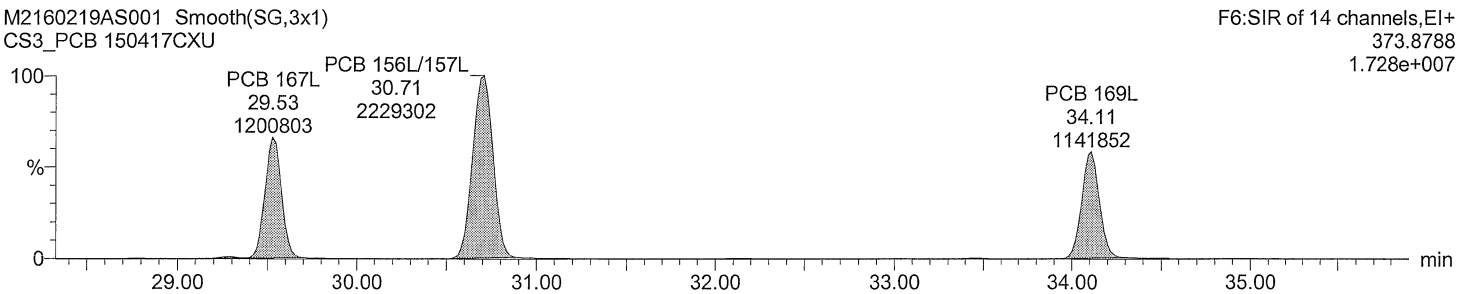

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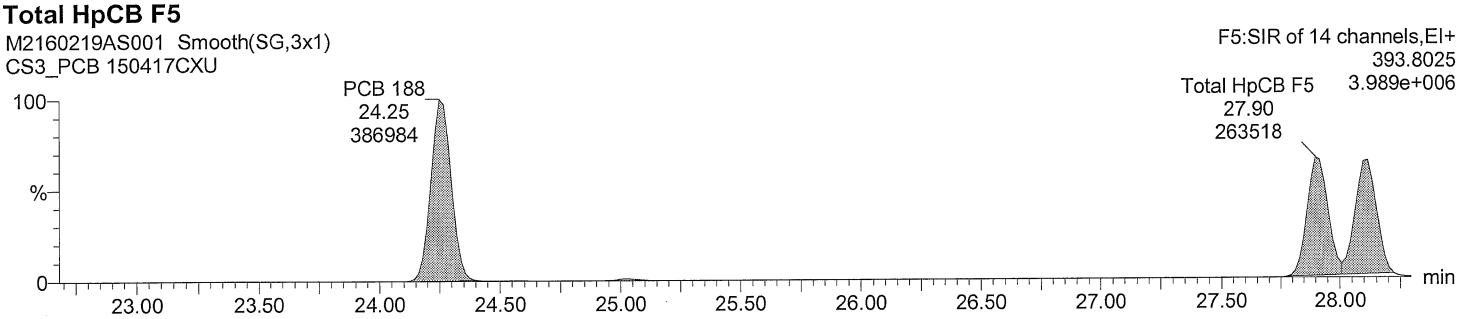

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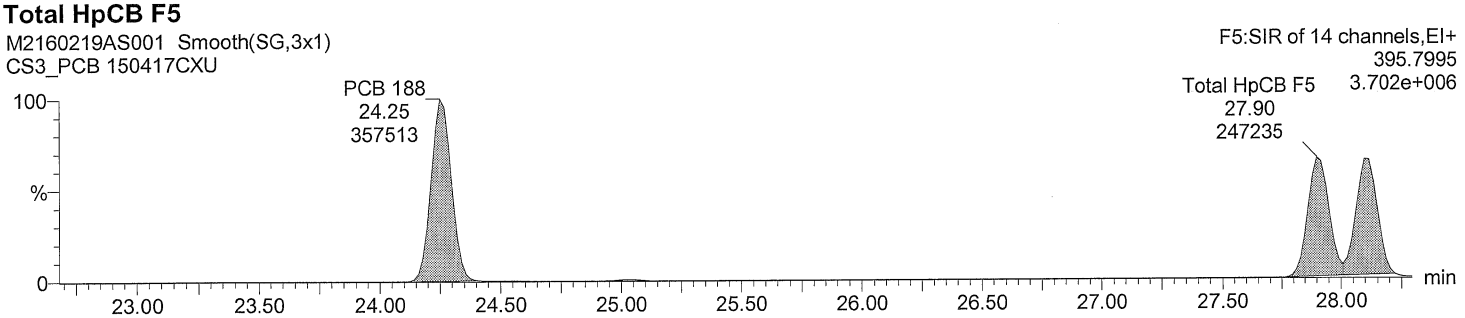

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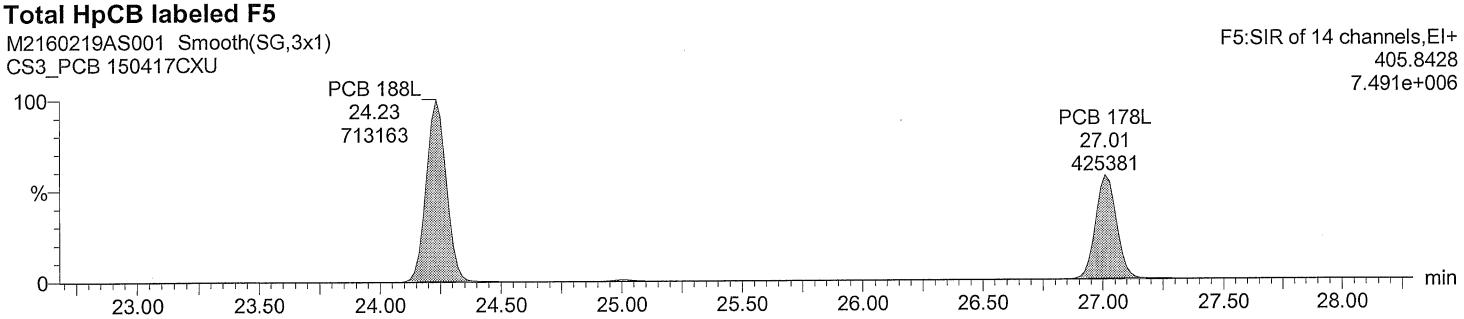

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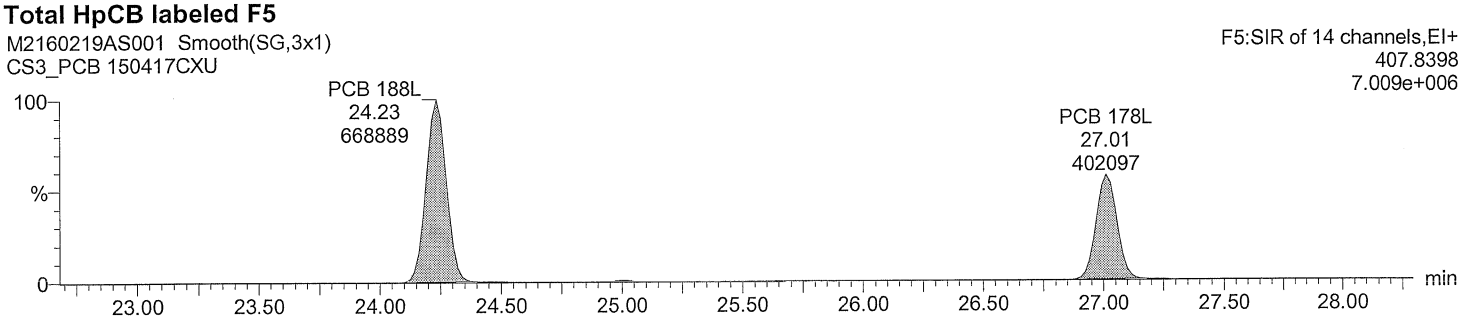

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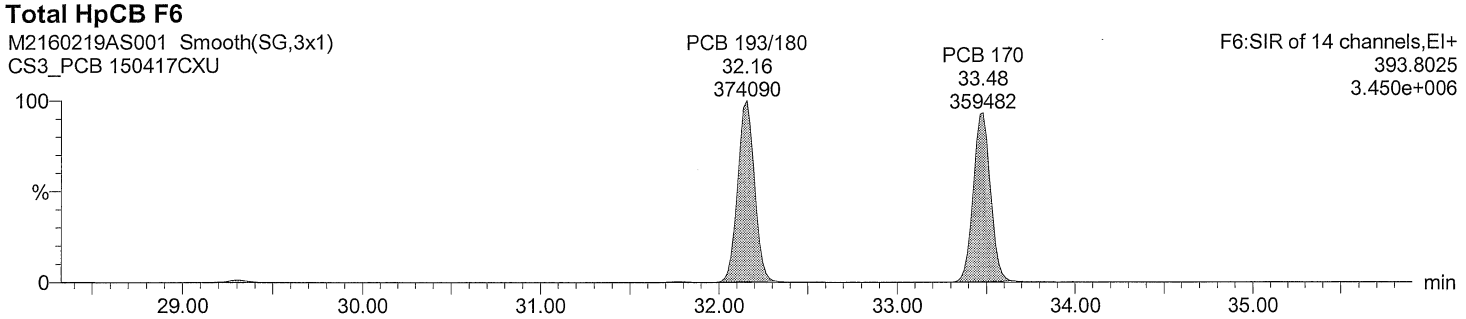

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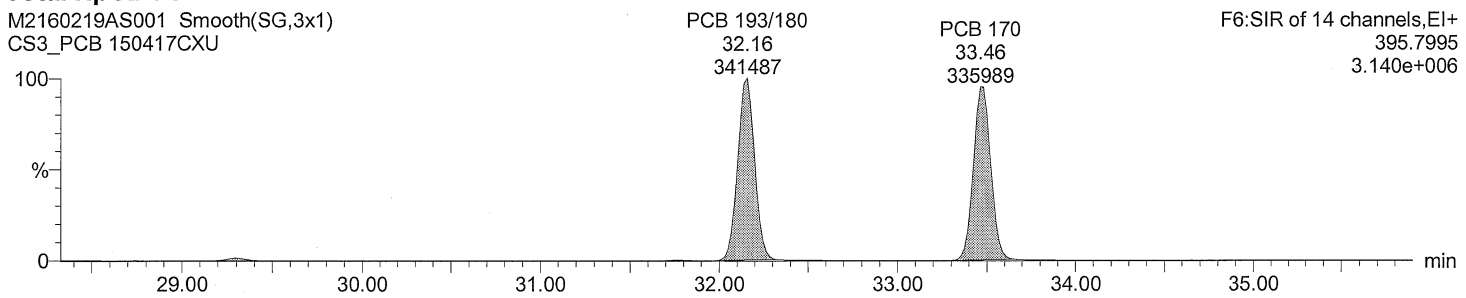

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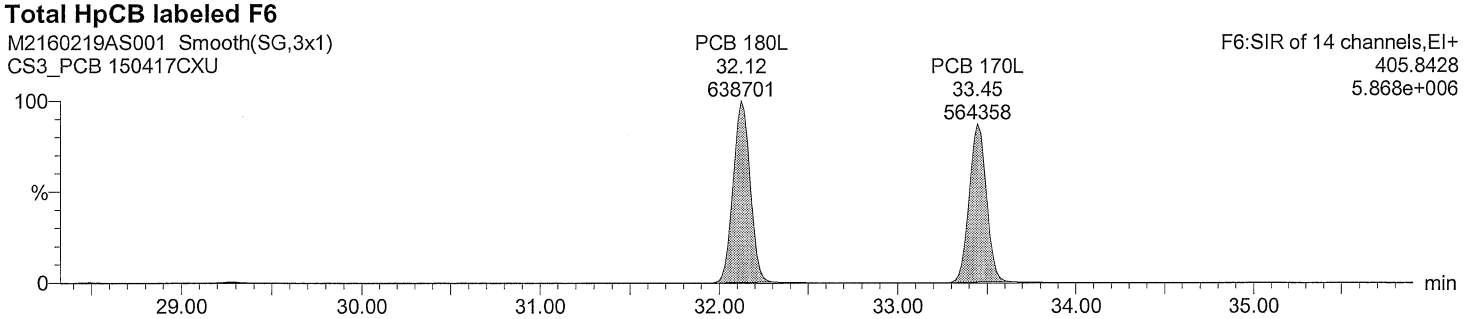

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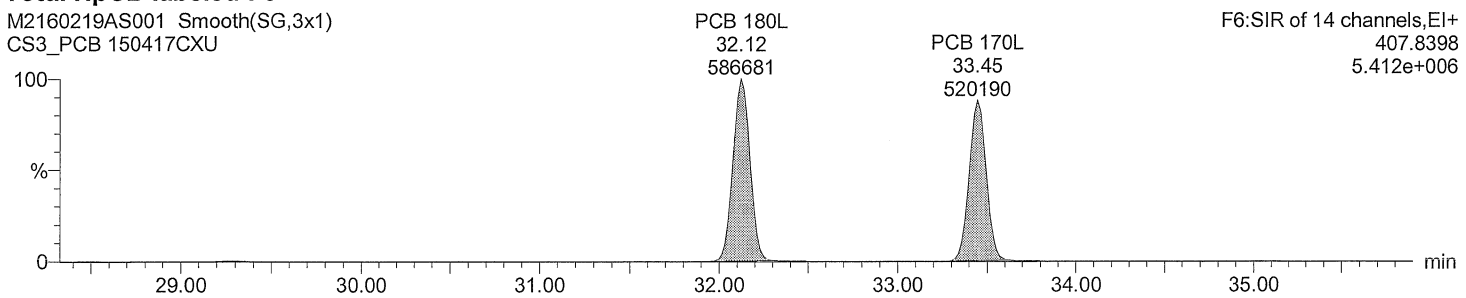

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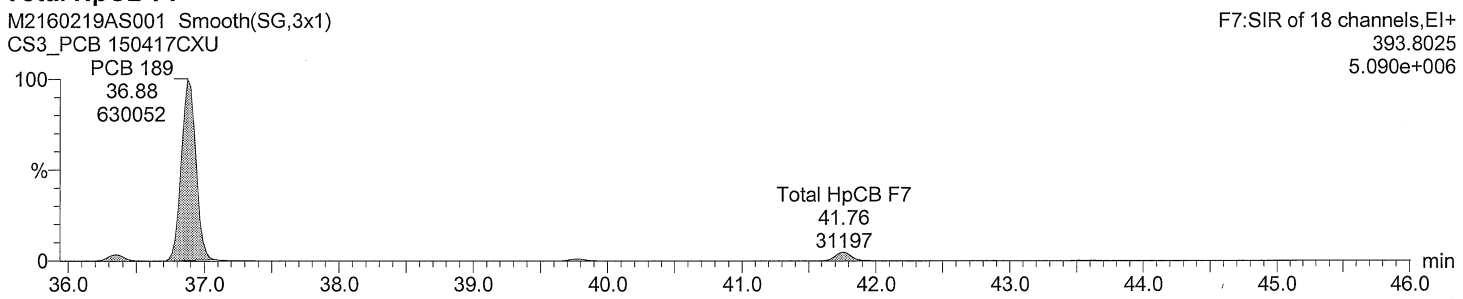

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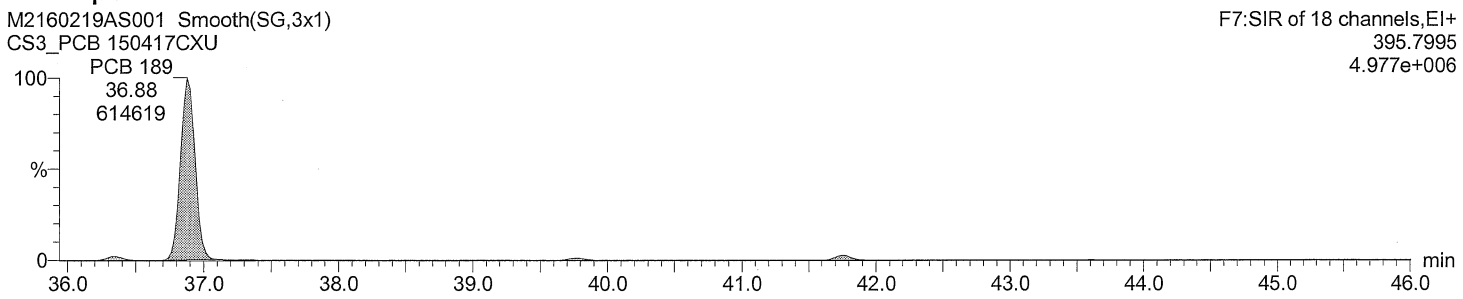

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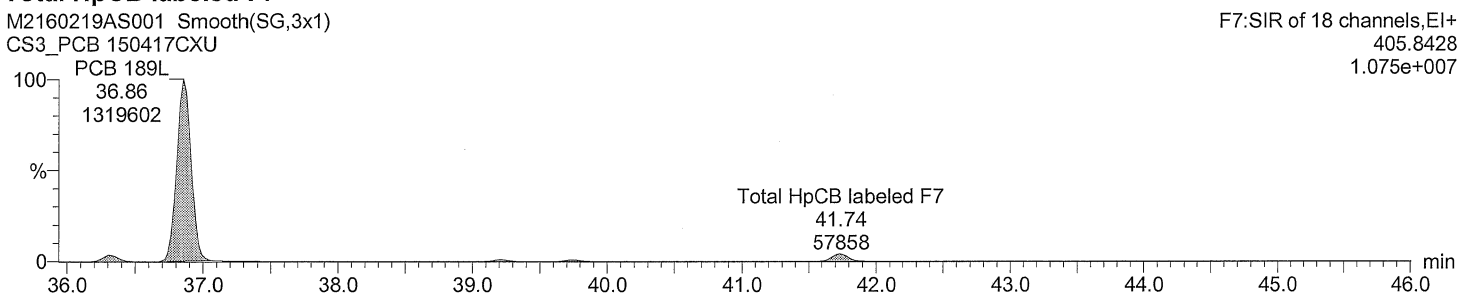

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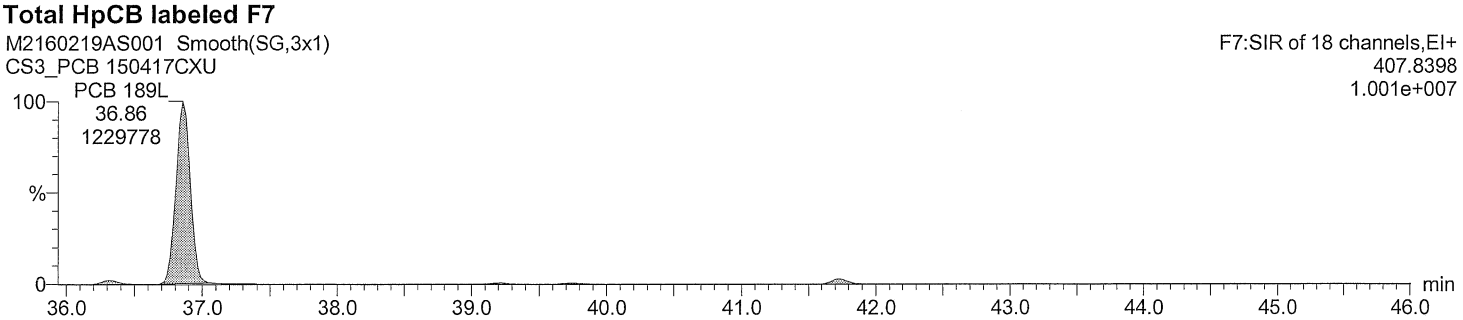

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Date: 19-FEB-2016
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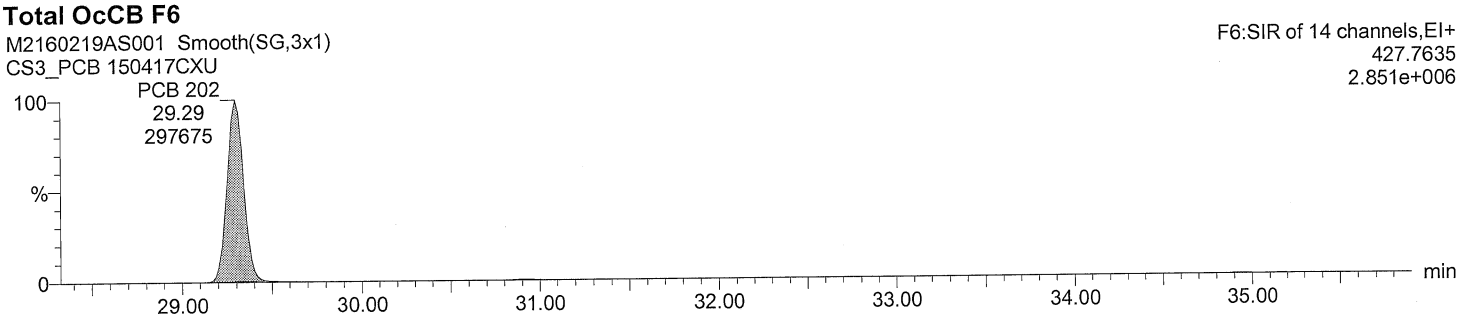

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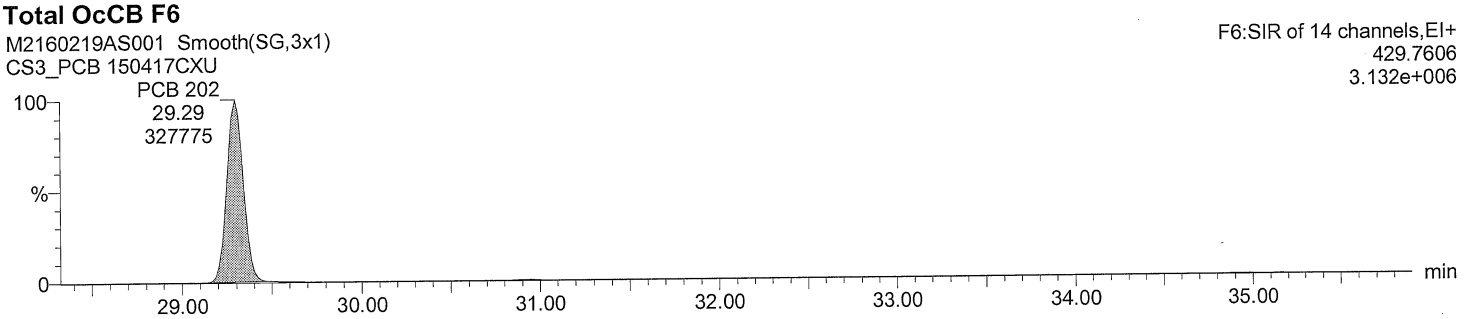

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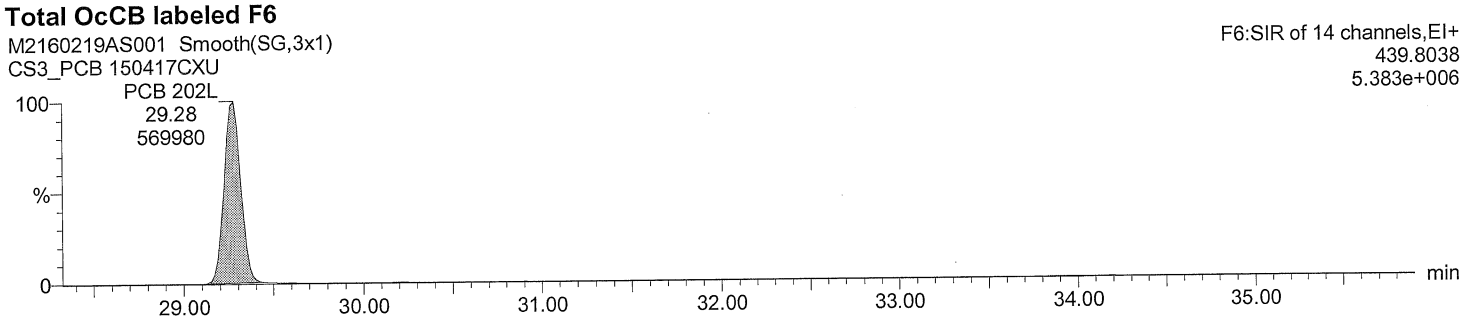

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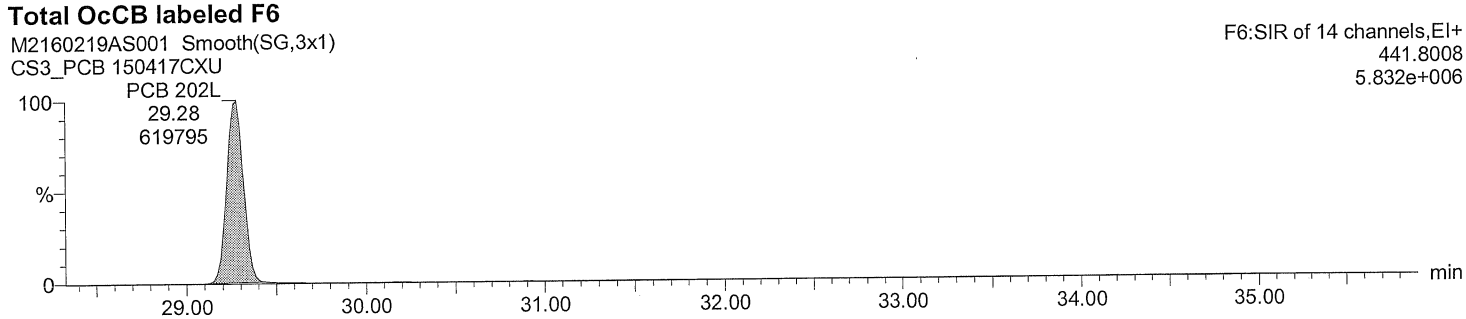

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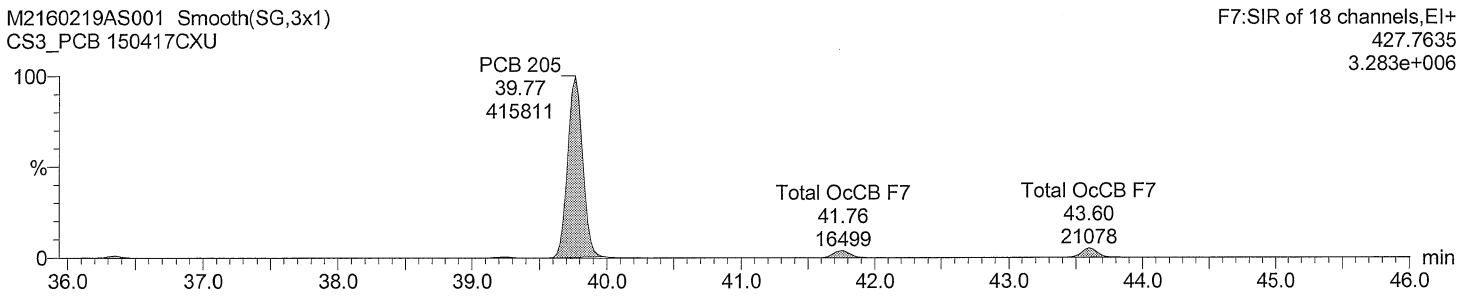

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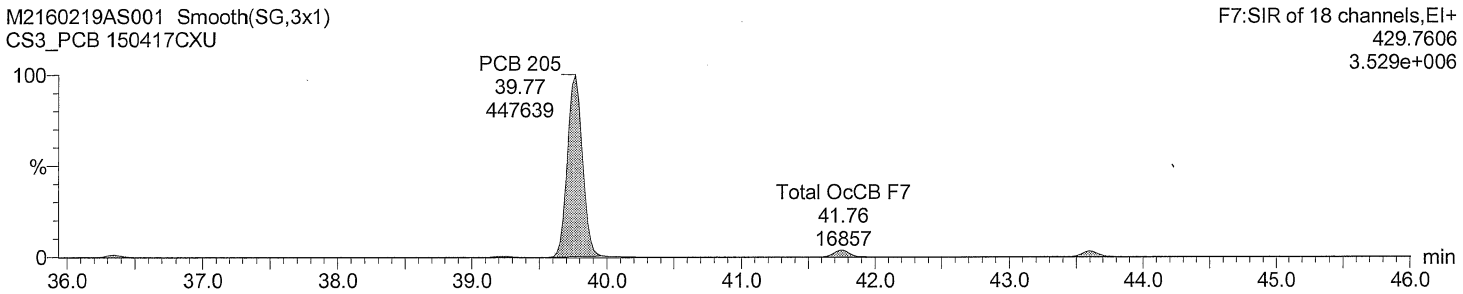

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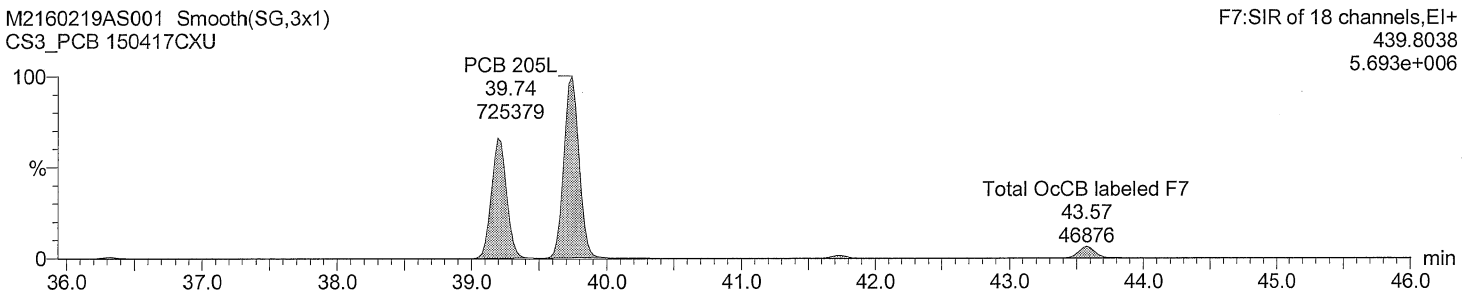

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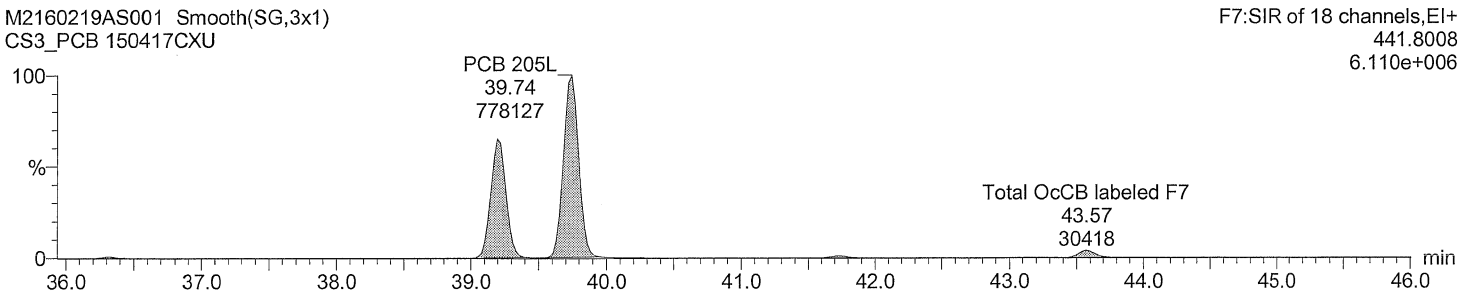

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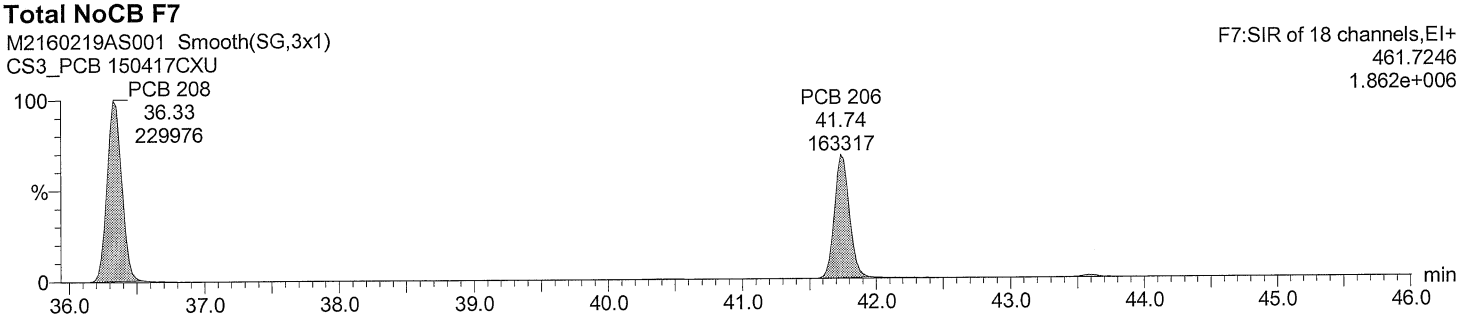

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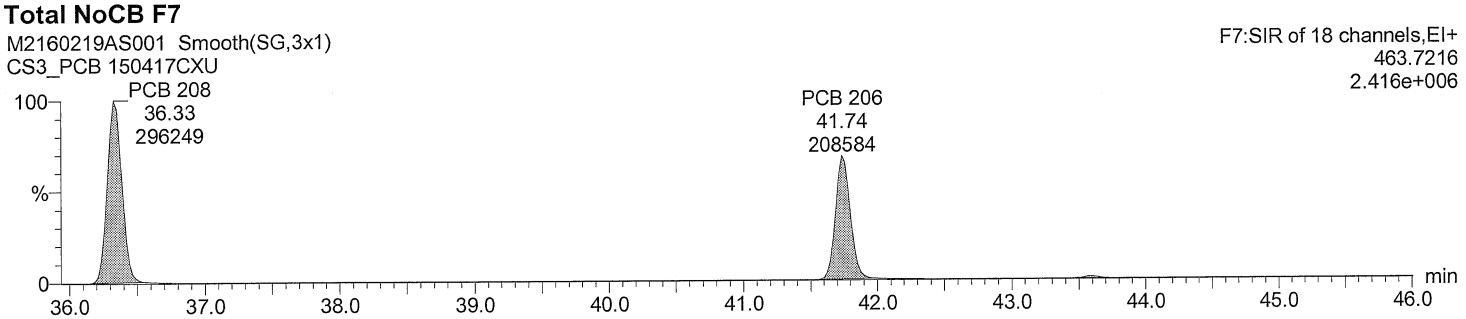

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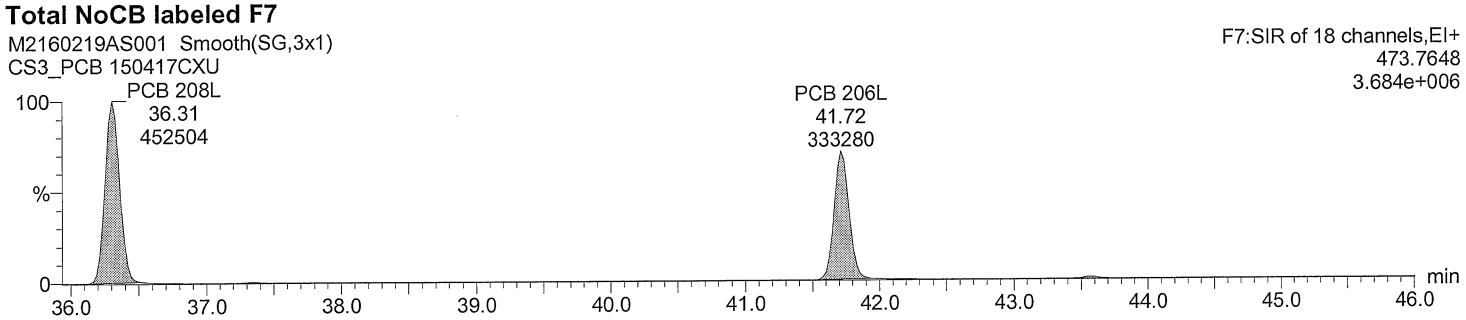

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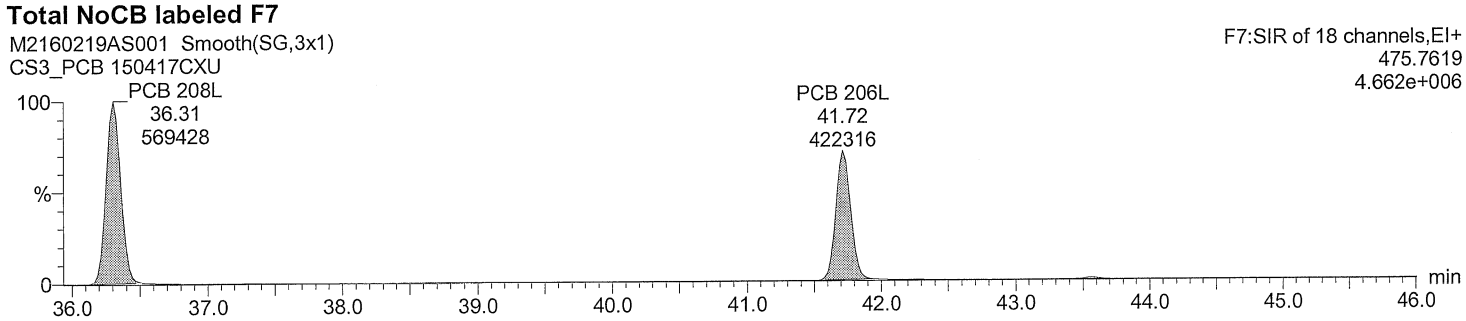

Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

Total DeCB F7
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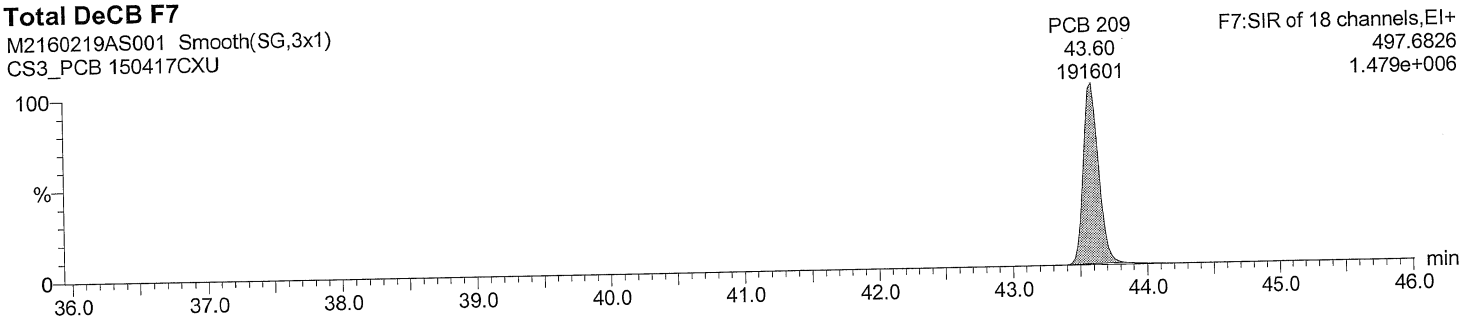
CS3_PCB 150417CXU



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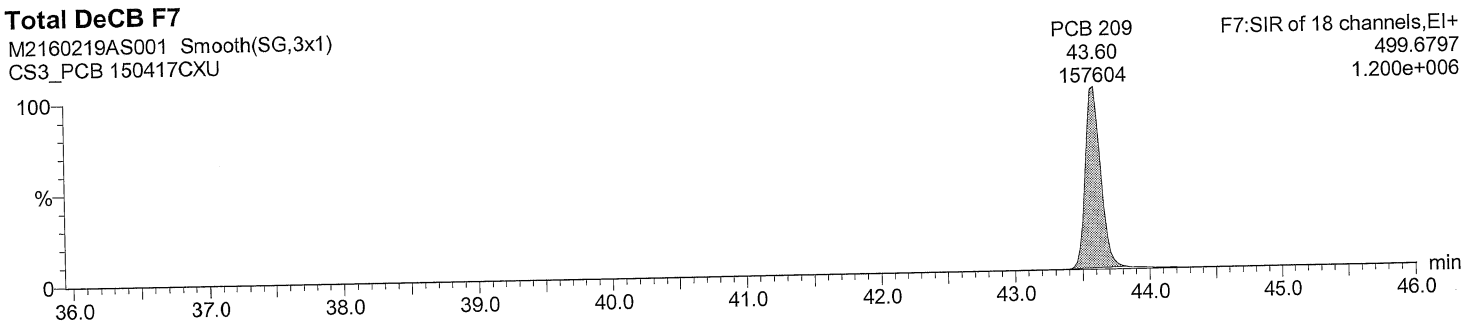

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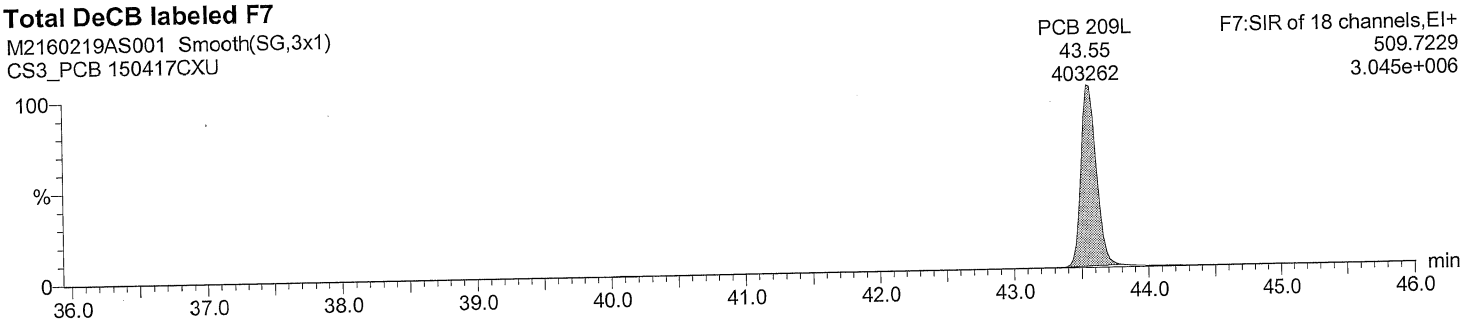

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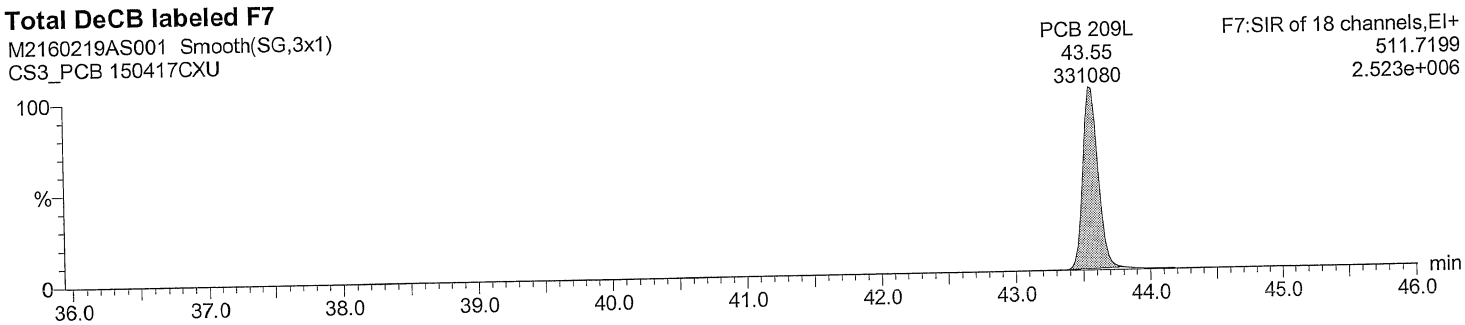


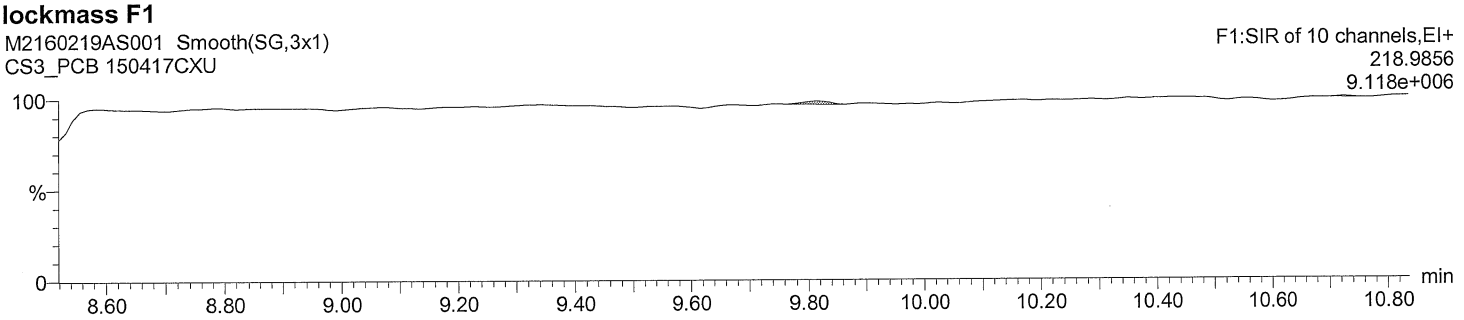
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

lockmass F1



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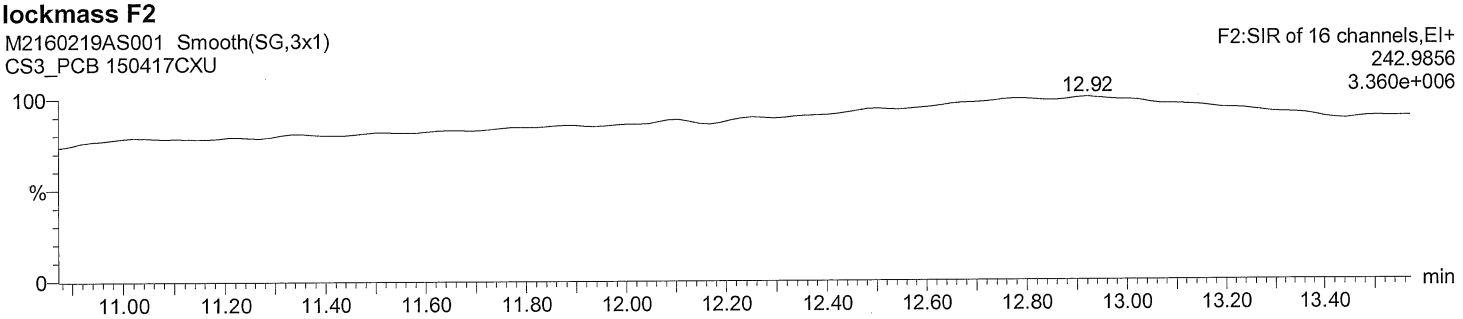

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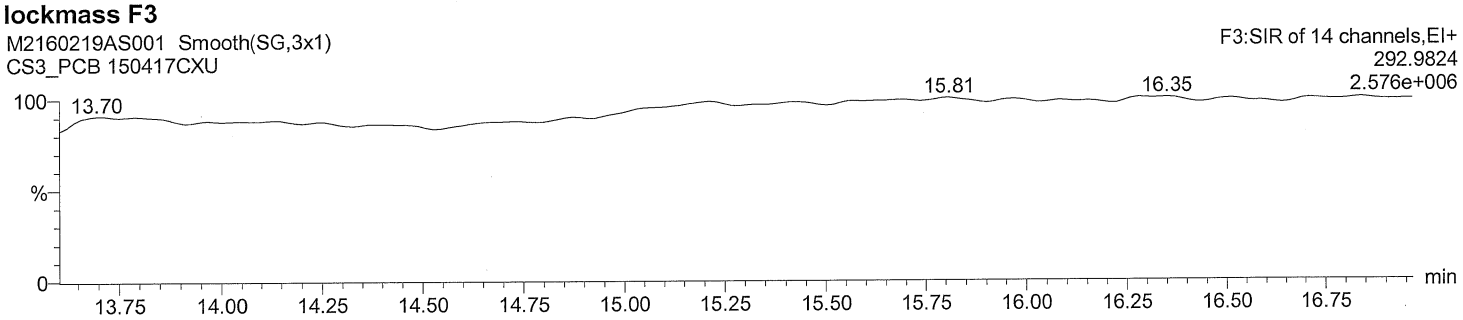
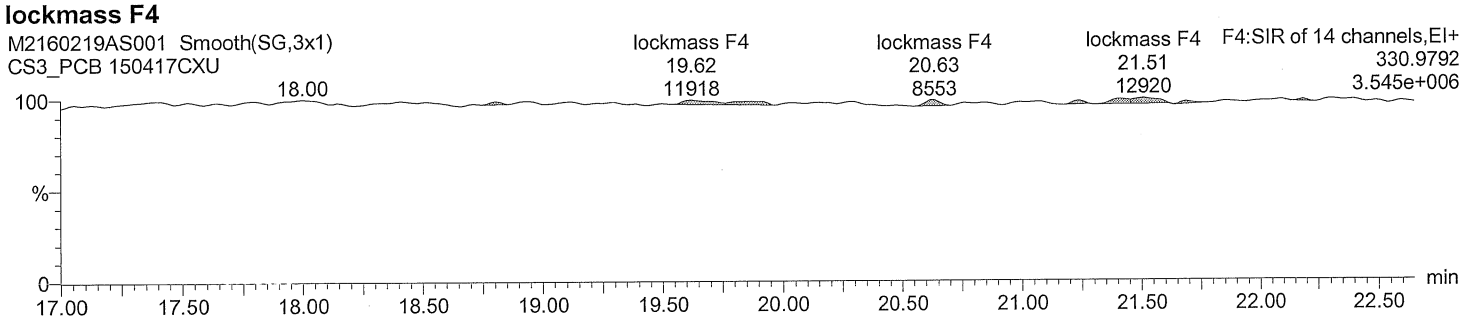


lockmass F4



AutoSpec Ultima - M2

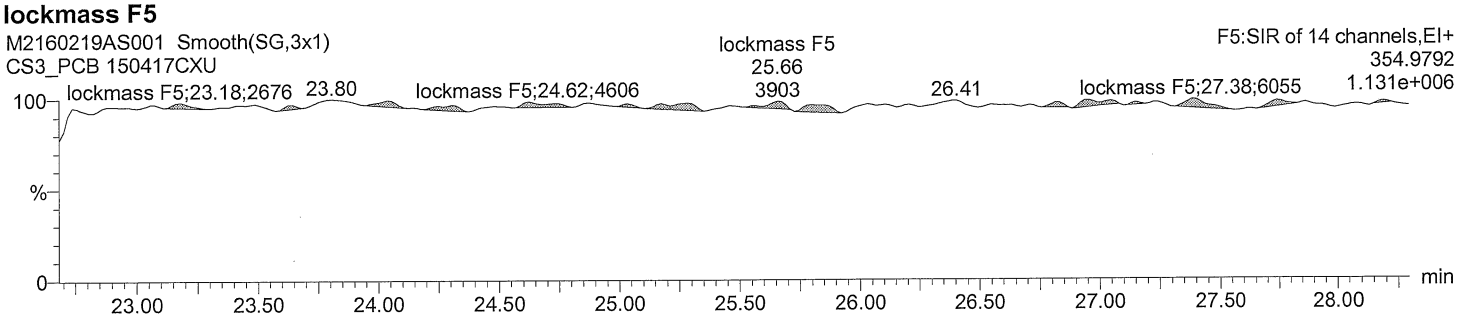
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

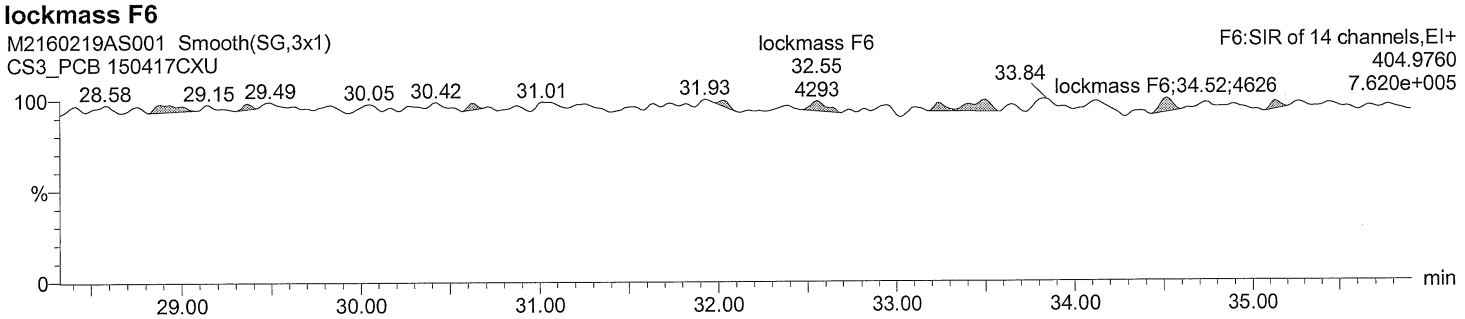
Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 1
Date: 19-FEB-2016
Time: 11:13:56
Instrument: Autospec-UltimaE

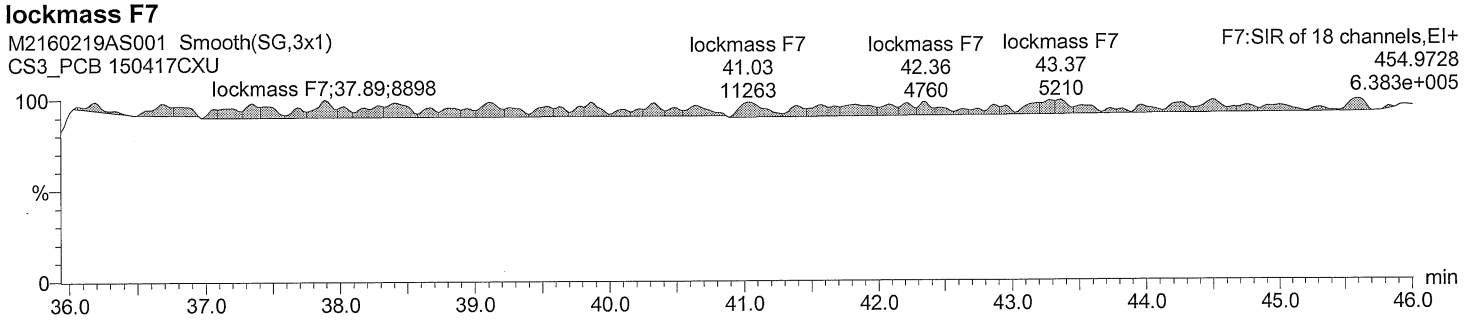
lockmass F5



lockmass F6



lockmass F7



Quantify Audit Report **MassLynx 4.0 SP1**

Acquired Date

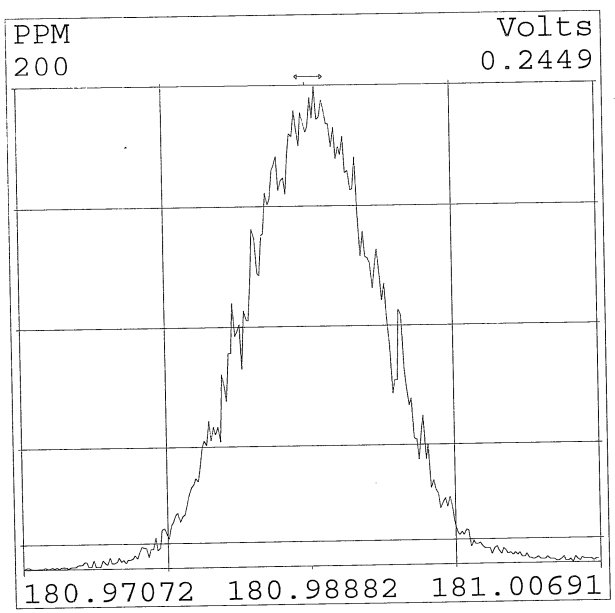
Dataset: C:\MassLynx\Default.pro\QLD\M2160219AS001CS3_1668A.qld

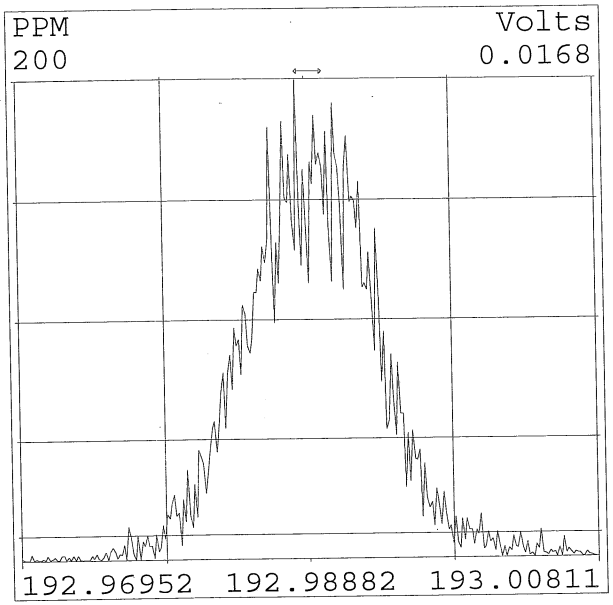
Last Altered: February 21, 2016 4:29:30 PM Eastern Standard Time

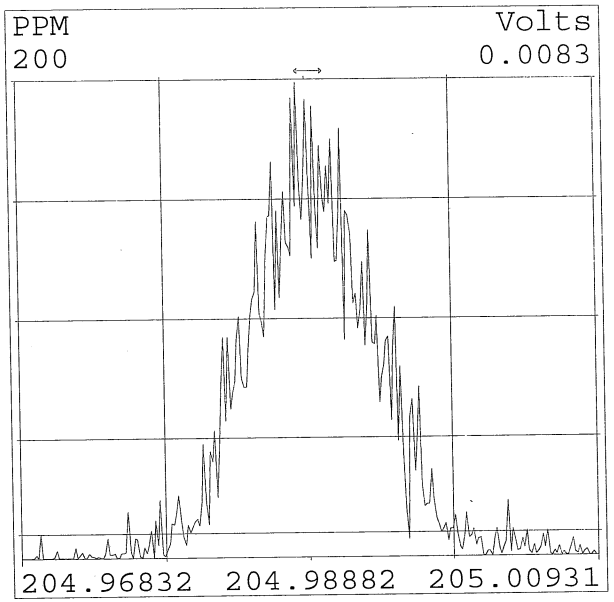
Printed: February 21, 2016 4:30:08 PM Eastern Standard Time

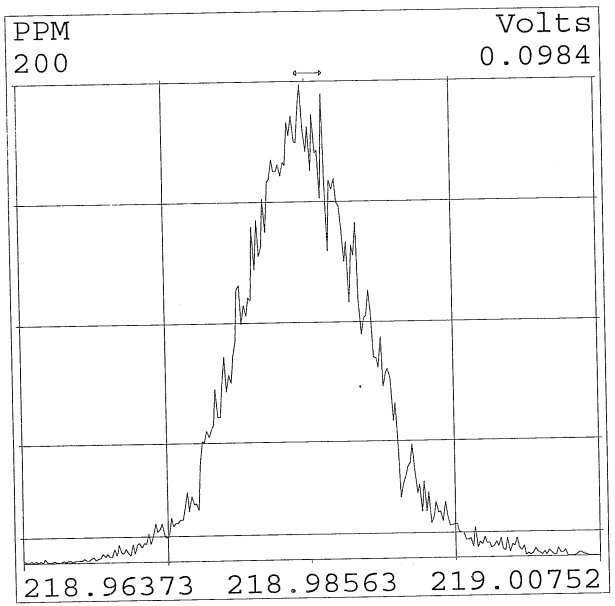
Date	Time	Event	RT	Details	Comments
21-Feb-16	16:29:30	Process Integrate			
21-Feb-16	16:29:30	Process Quantify			
21-Feb-16	16:29:30	Dataset Created			
21-Feb-16	16:30:03	Dataset Saved		Saved to 'C:\MassLynx\Default.pro\QLD\M21602...	

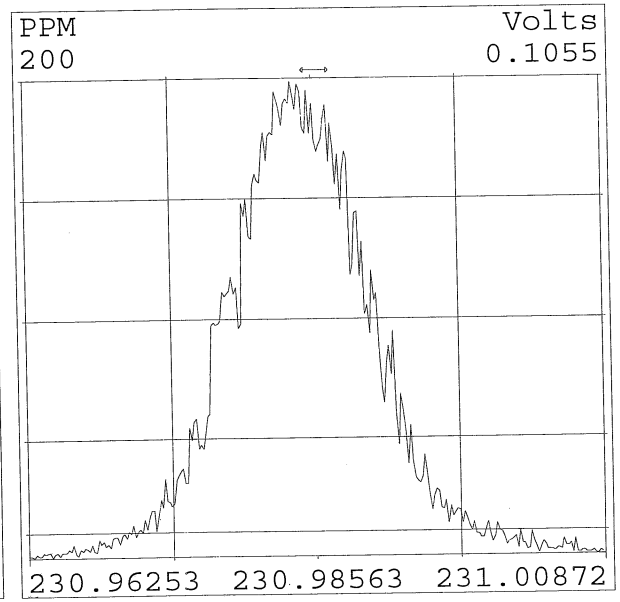
Peak Locate Examination:19-FEB-2016:11:11 File:M2160219A
Experiment:1668A Function:1 Reference:PFK

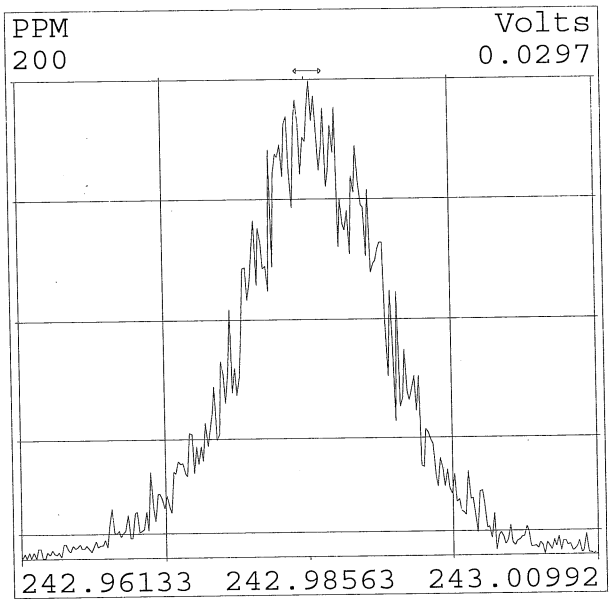




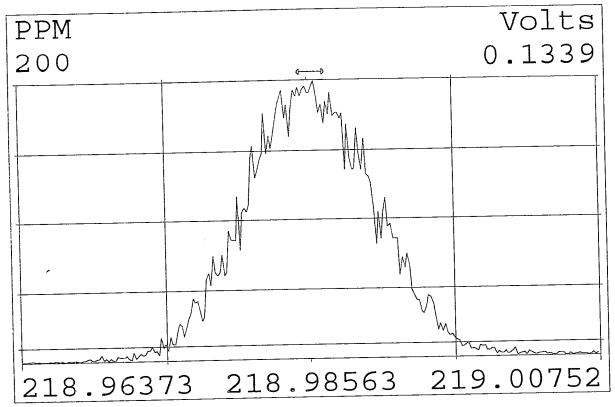


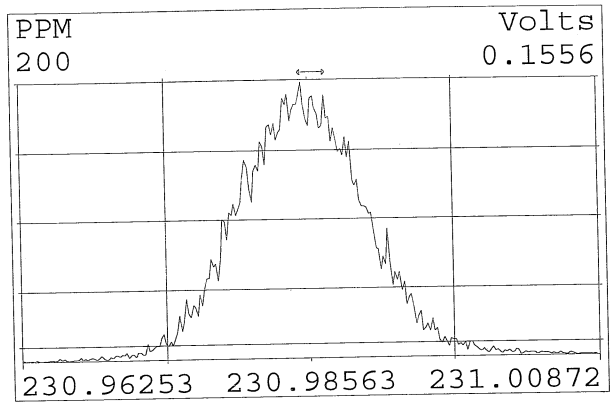


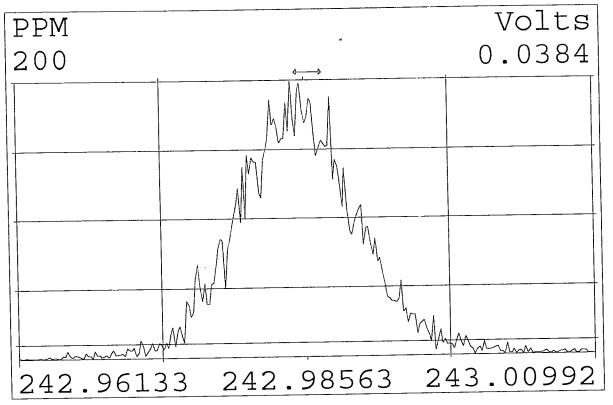


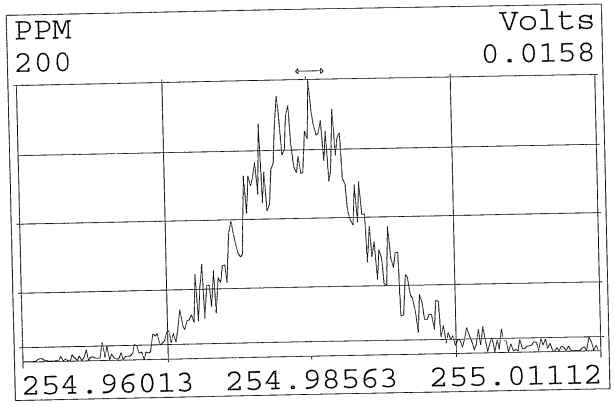


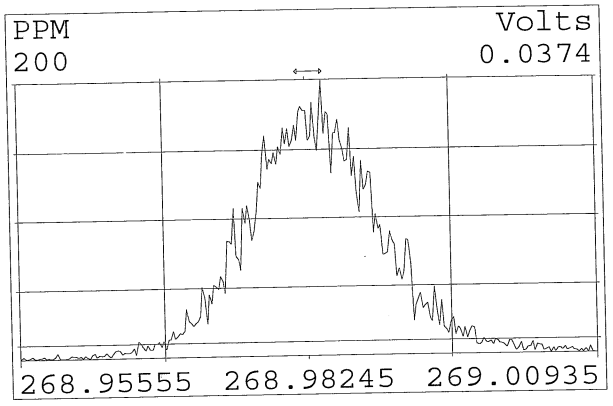
Peak Locate Examination:19-FEB-2016:11:11 File:M2160219A
Experiment:1668A Function:2 Reference:PFK

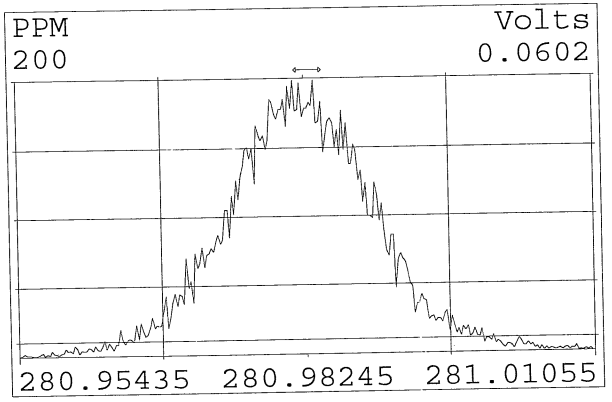


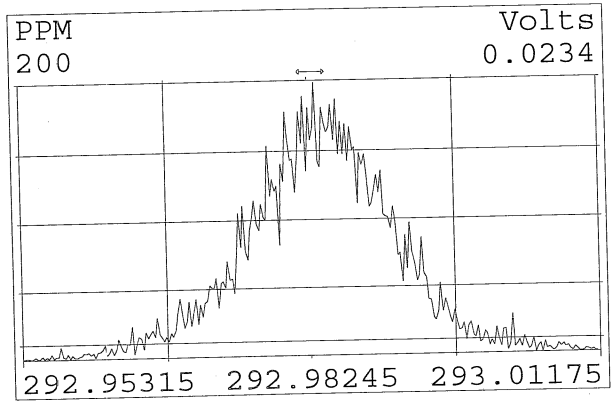


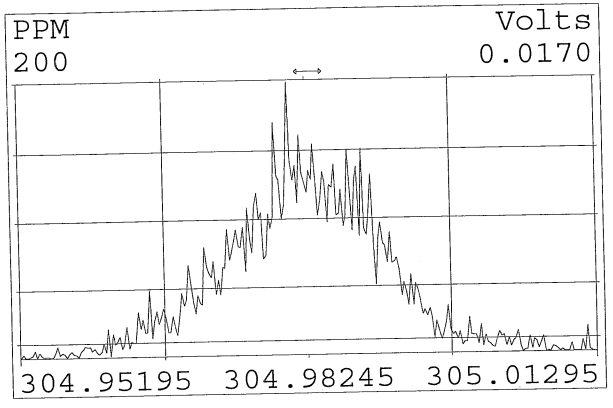




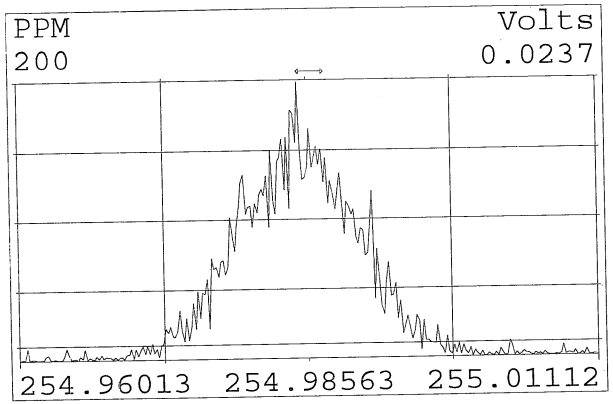


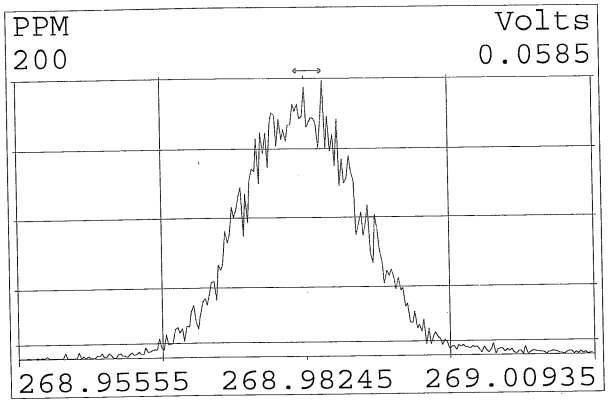


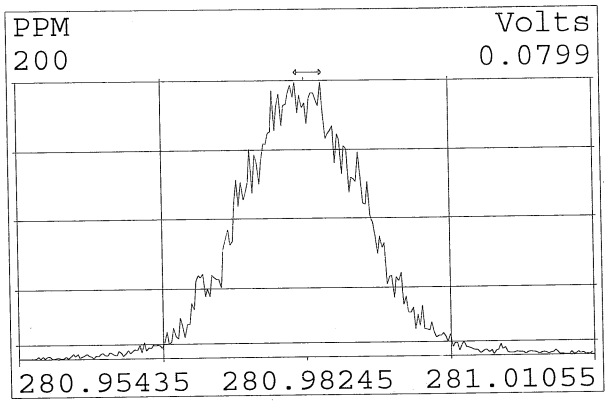


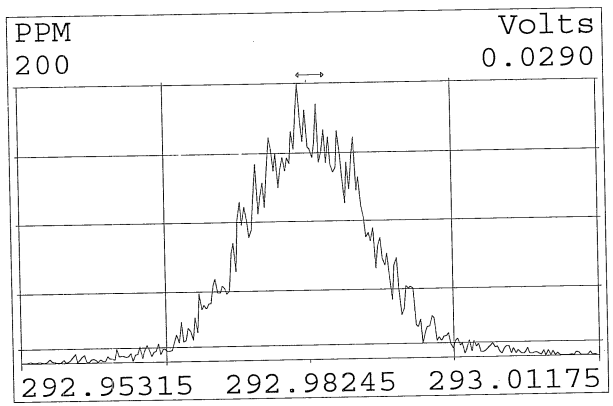


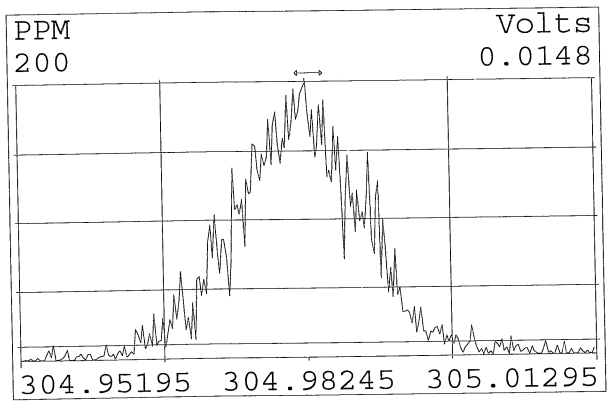
Peak Locate Examination:19-FEB-2016:11:12 File:M2160219A
Experiment:1668A Function:3 Reference:PFK

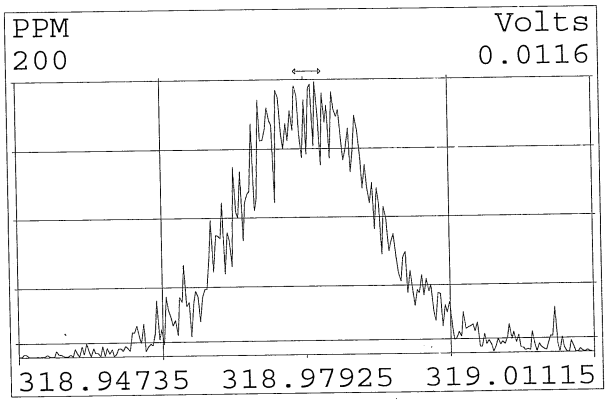


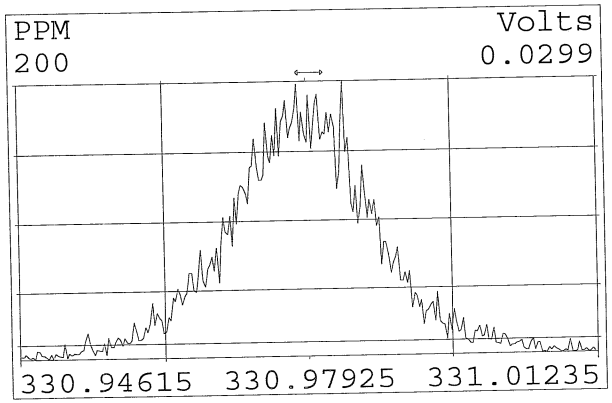


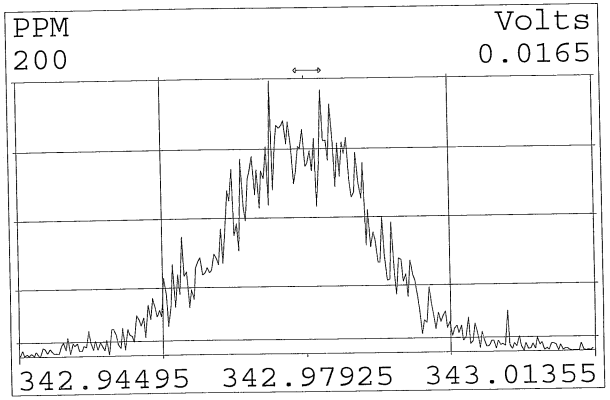




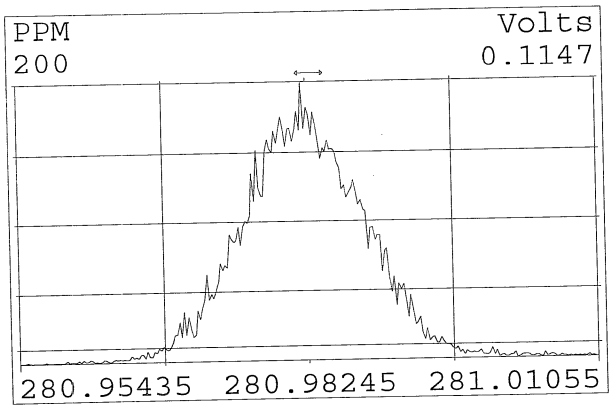


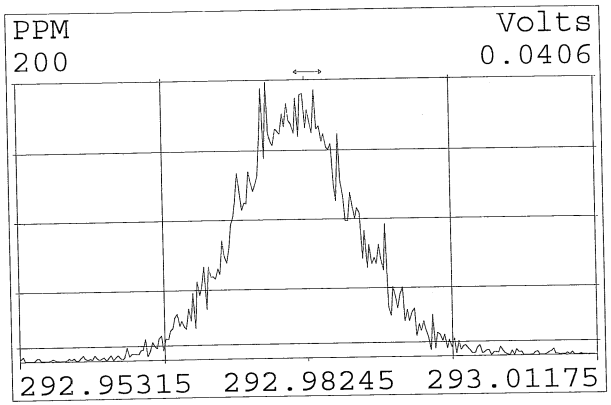


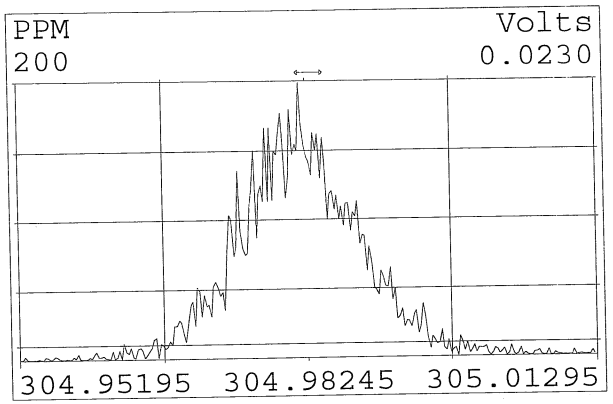


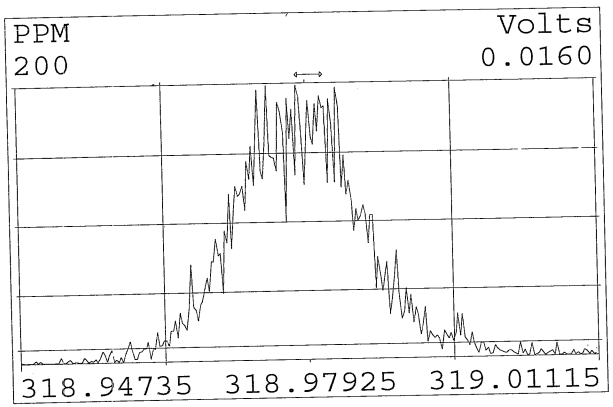


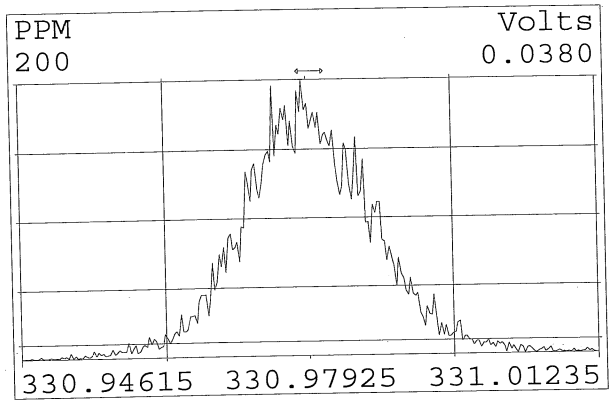
Peak Locate Examination:19-FEB-2016:11:12 File:M2160219A
Experiment:1668A Function:4 Reference:PFK

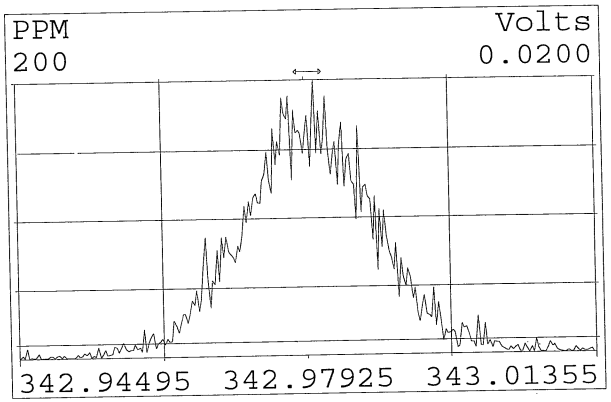


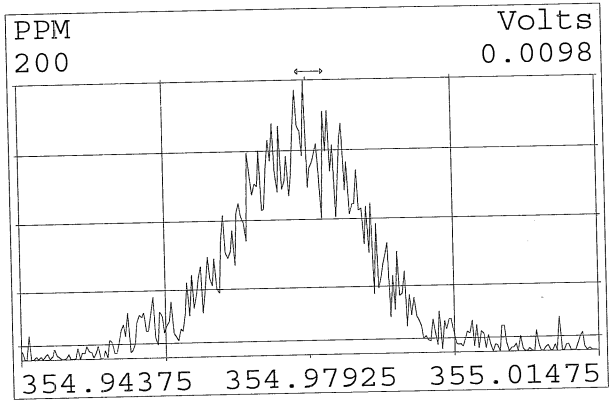


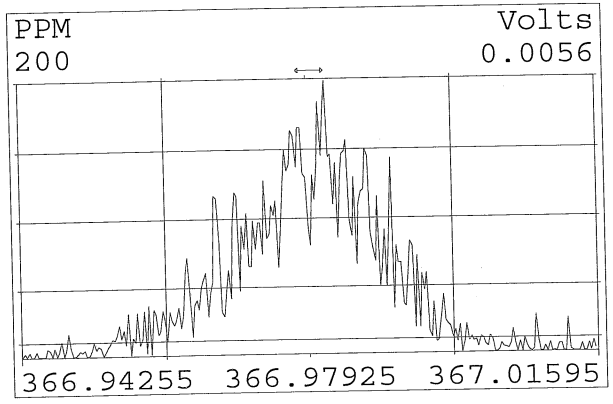


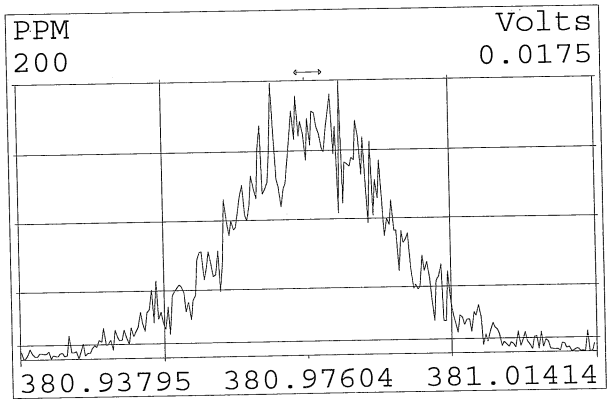












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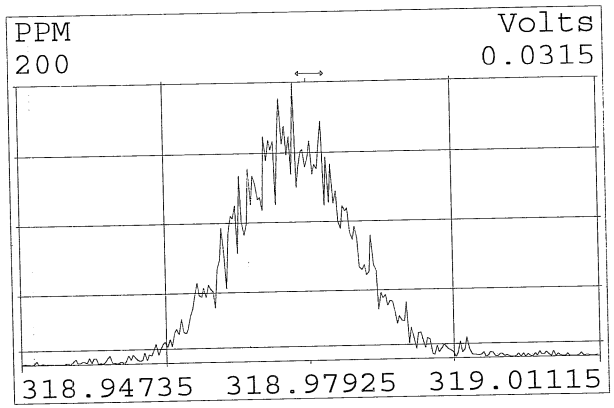
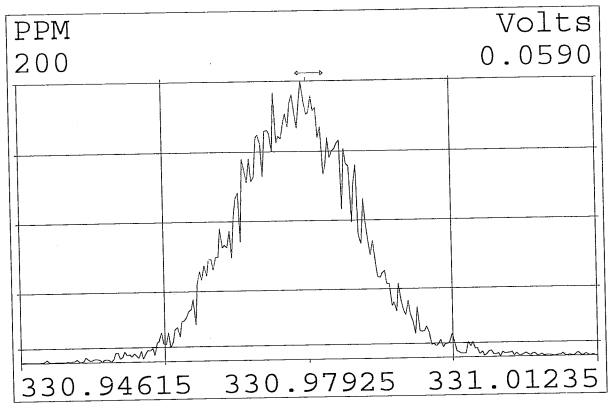
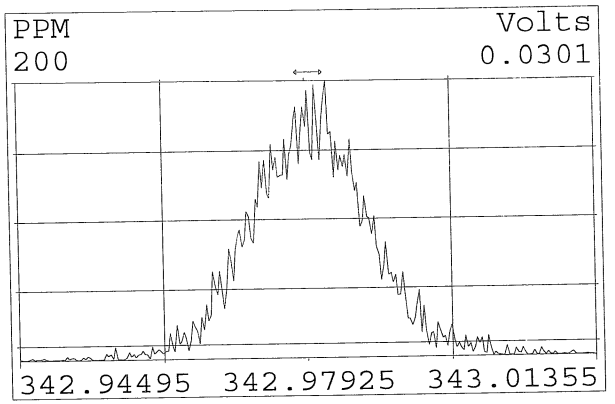
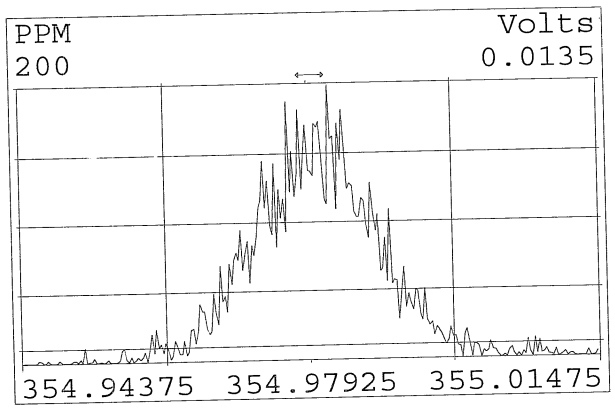
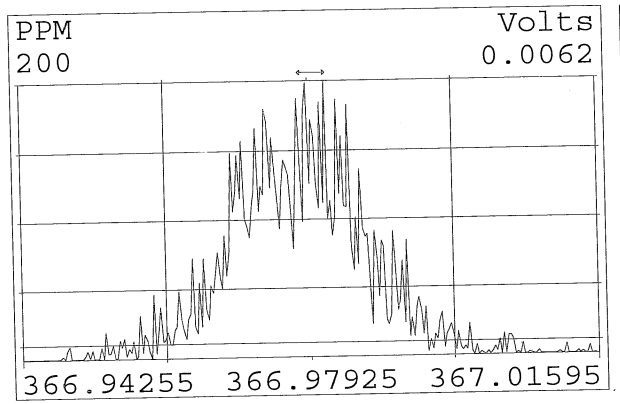
Experiment:1668A Function:5 Reference:PFK

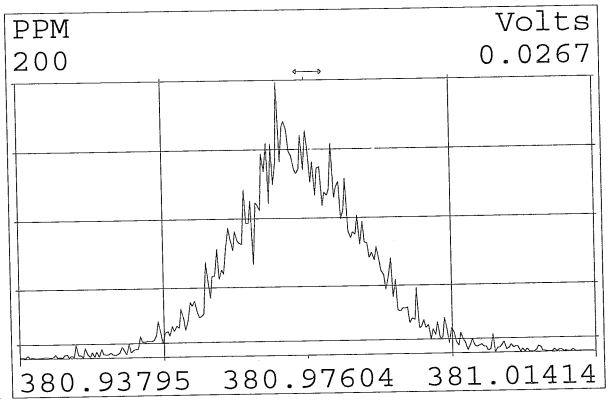


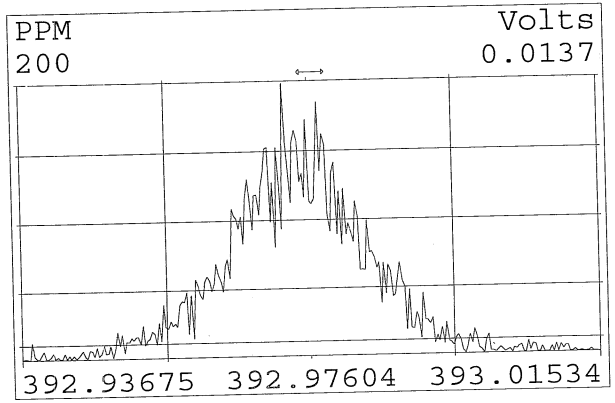


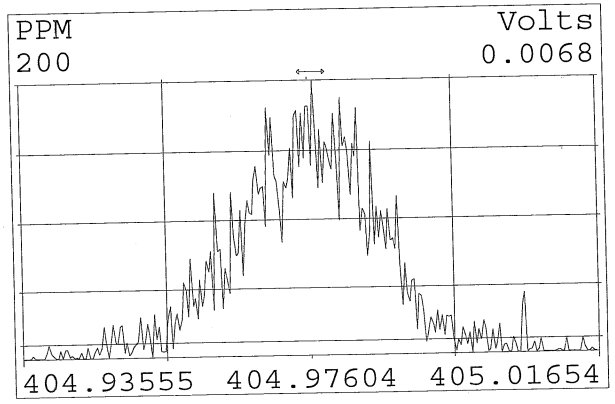


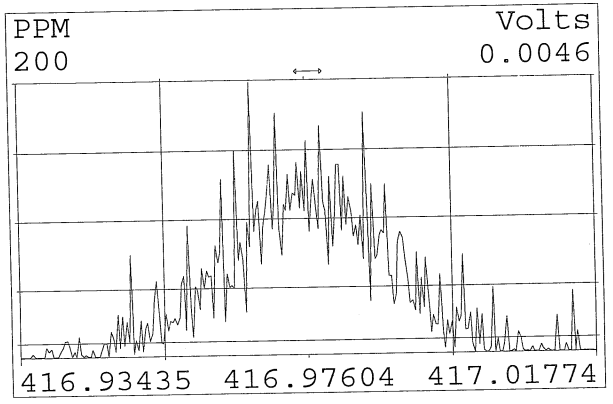




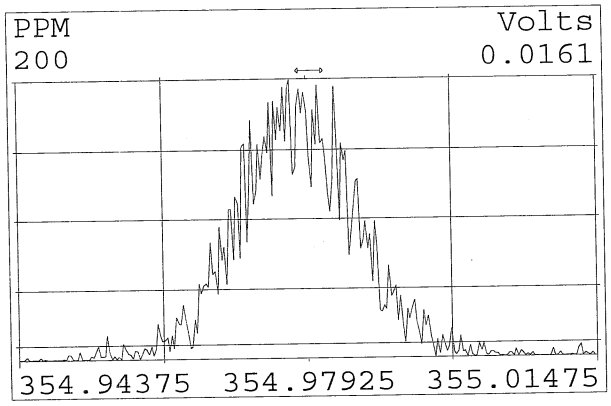


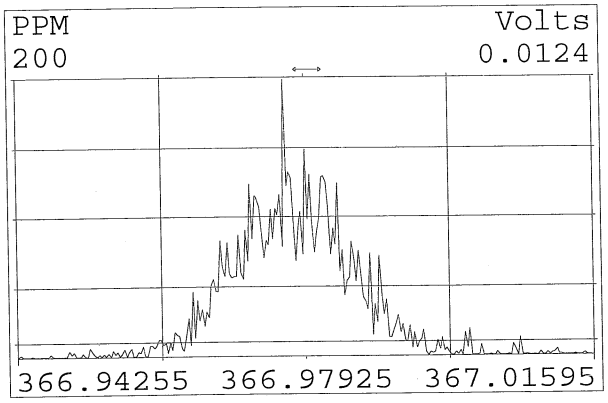


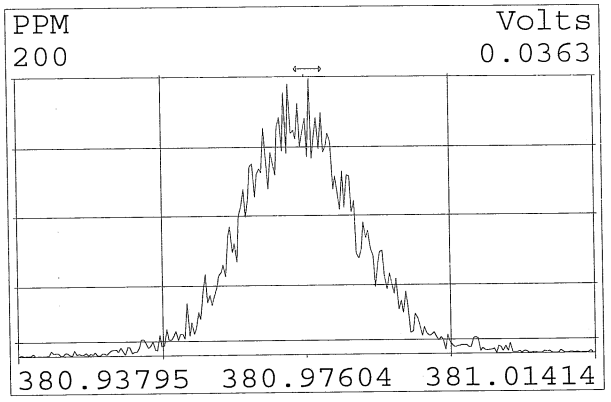


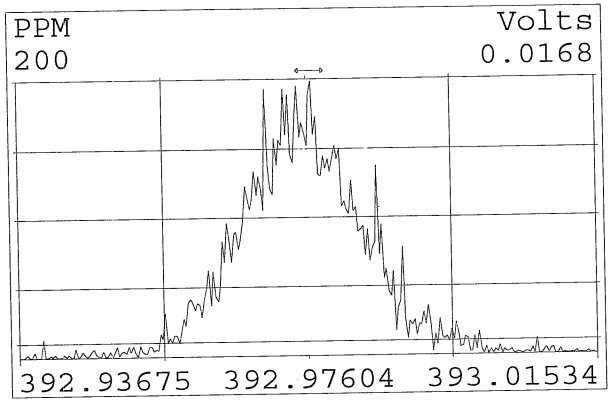


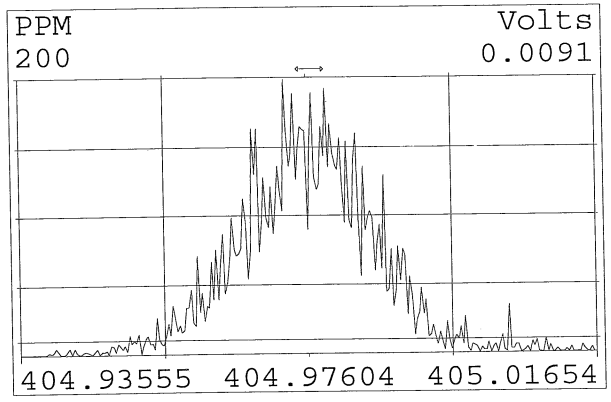
Peak Locate Examination:19-FEB-2016:11:12 File:M2160219A
Experiment:1668A Function:6 Reference:PFK

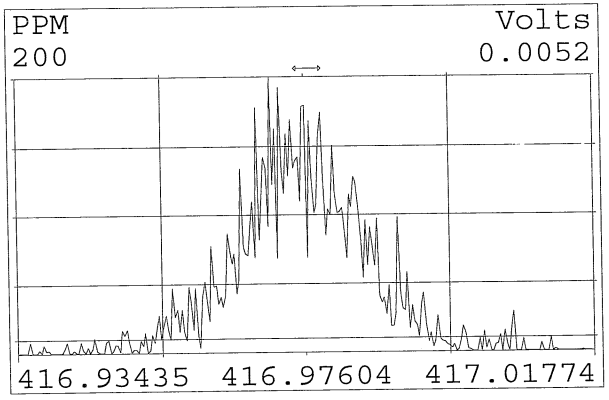


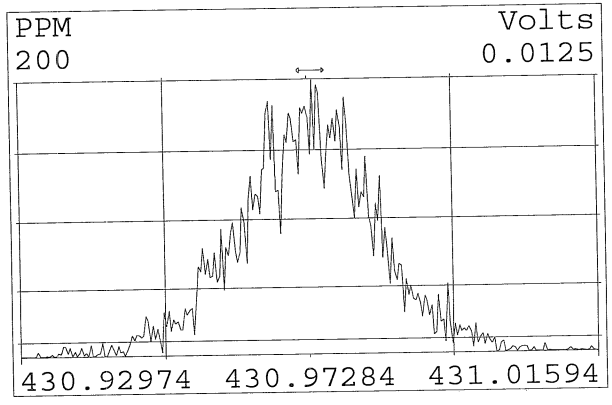


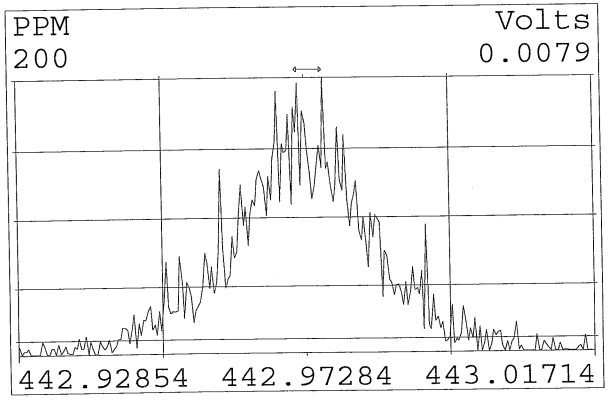




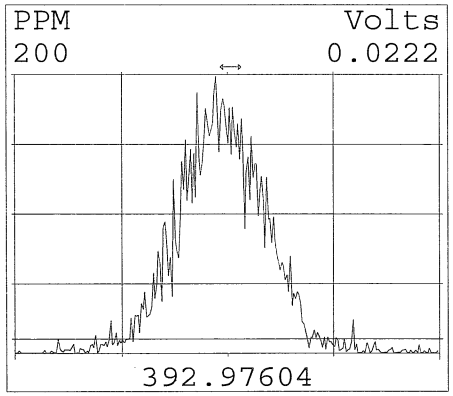


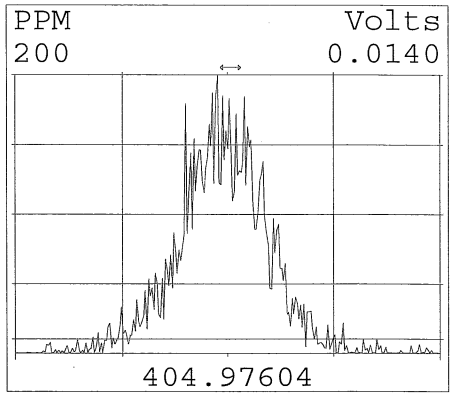


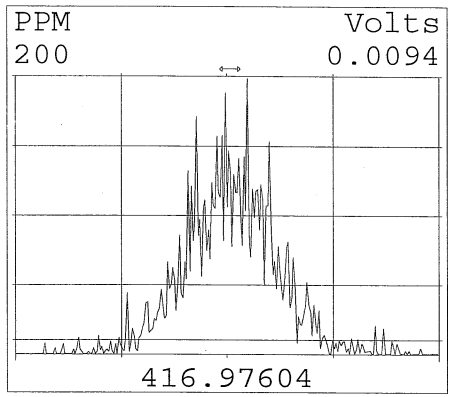


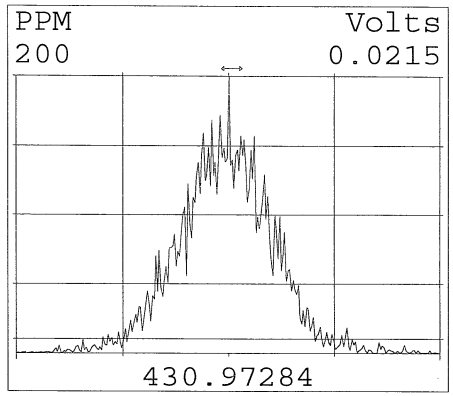


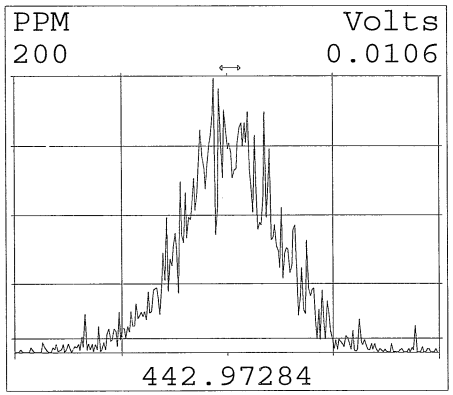
Peak Locate Examination:19-FEB-2016:11:13 File:M2160219A
Experiment:1668A Function:7 Reference:PFK

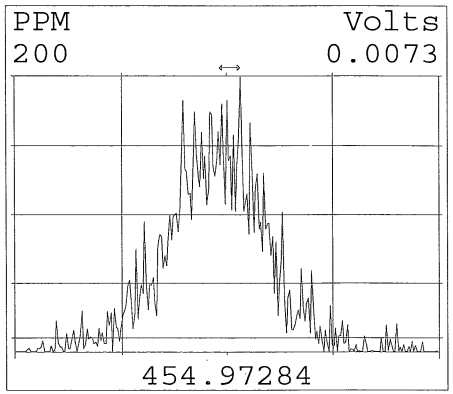


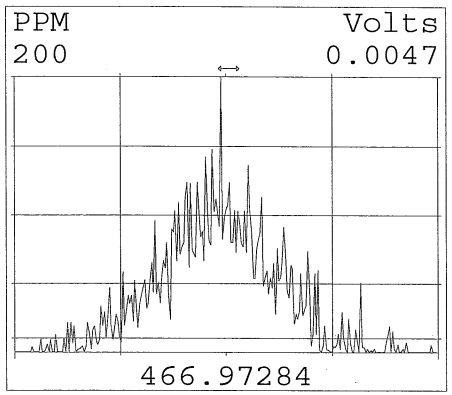


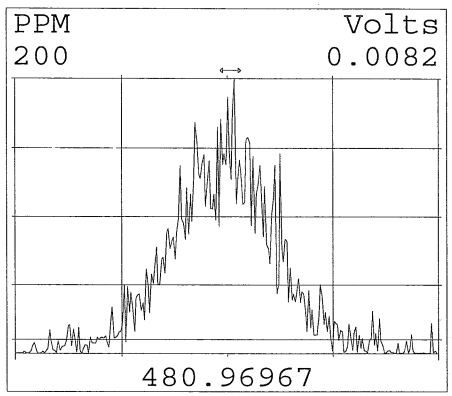


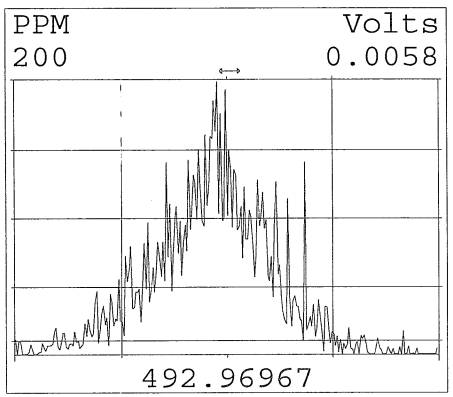


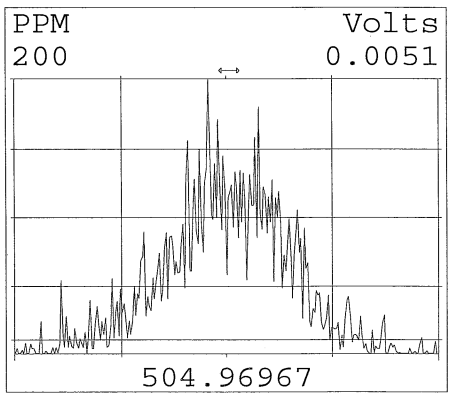


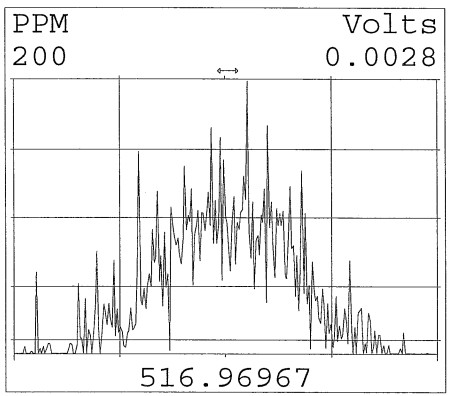




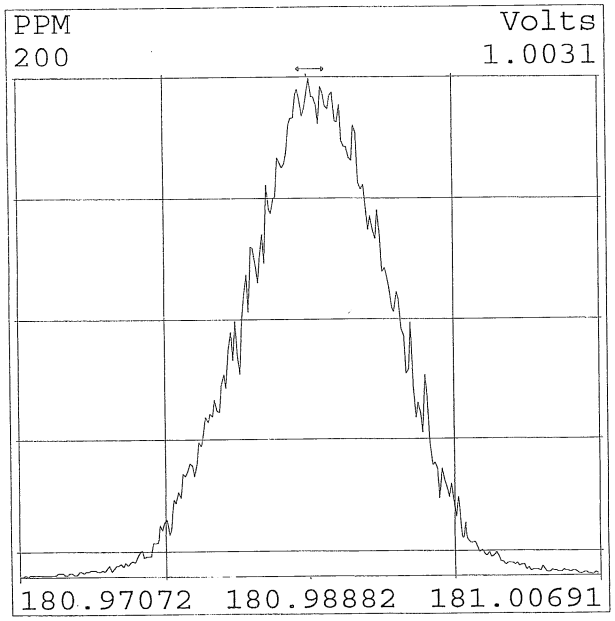


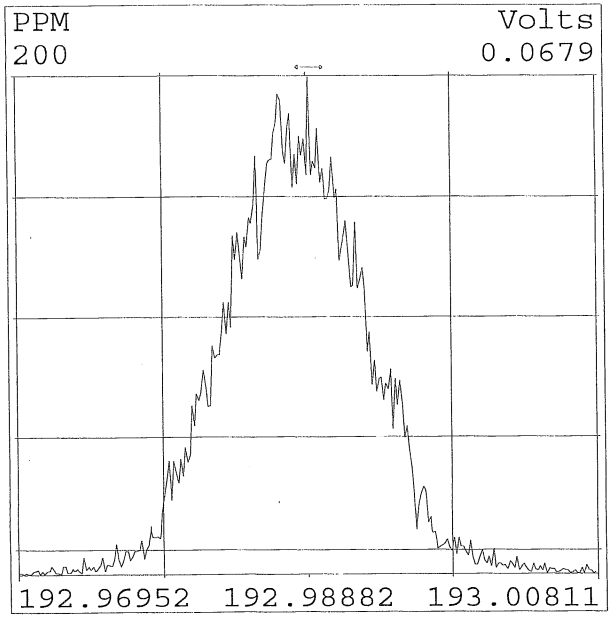


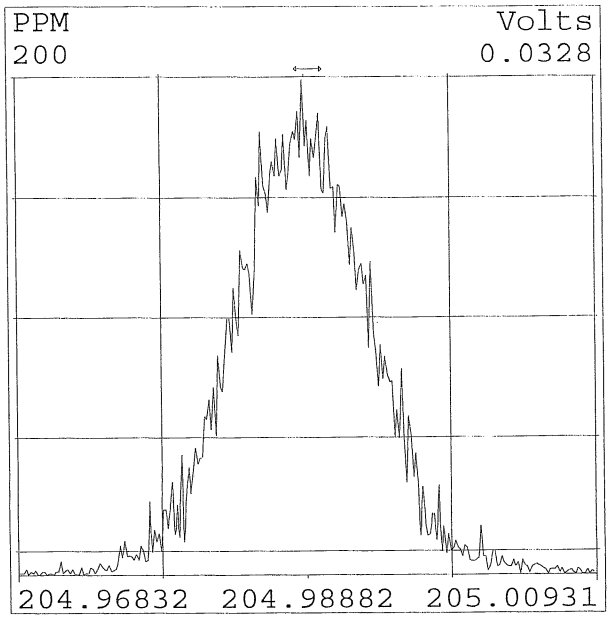


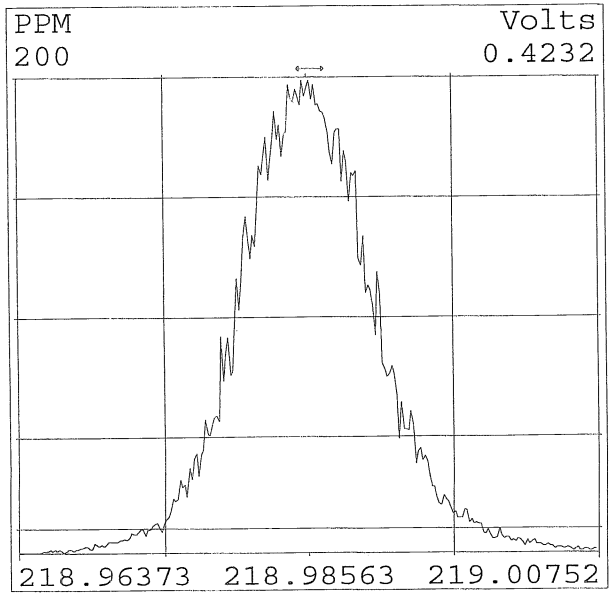


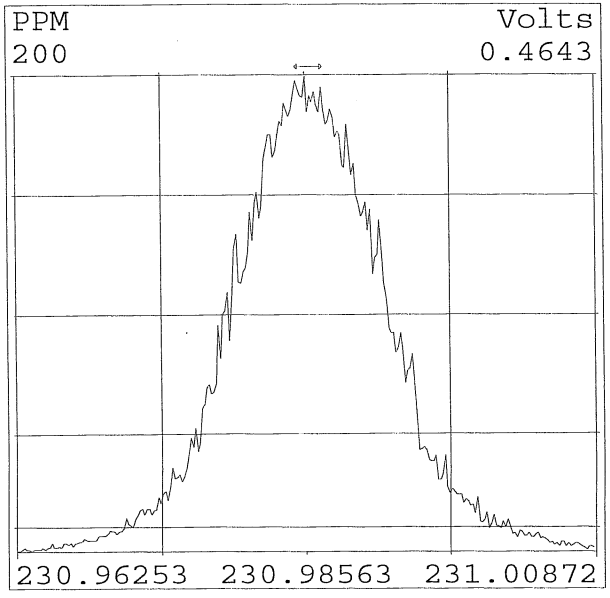
Peak Locate Examination:20-FEB-2016:09:20 File:M2160220
Experiment:1668A Function:1 Reference:PFK

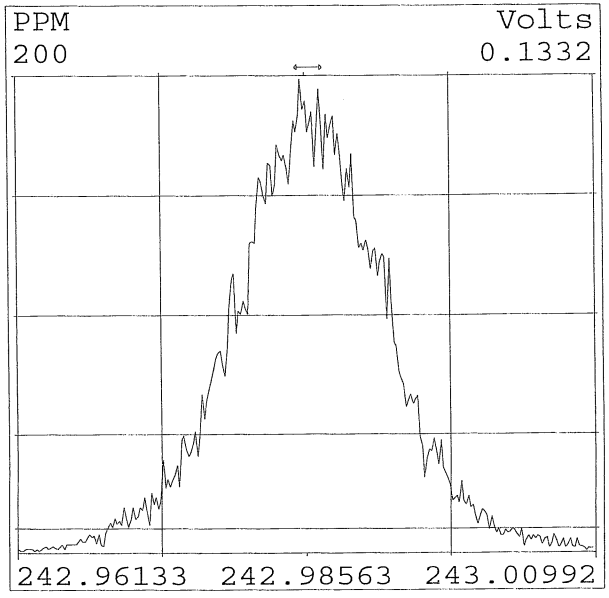




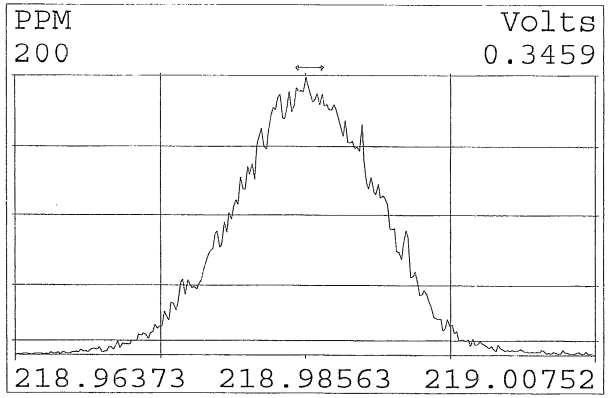


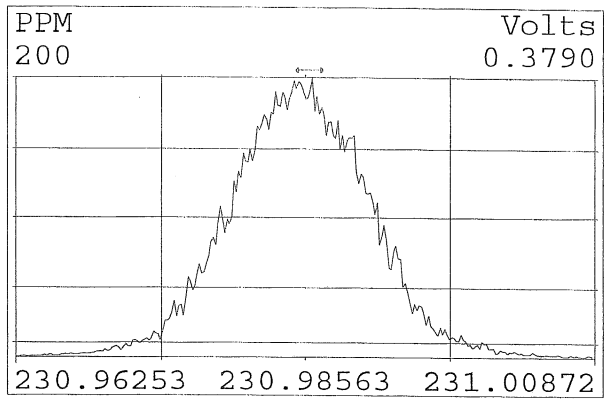


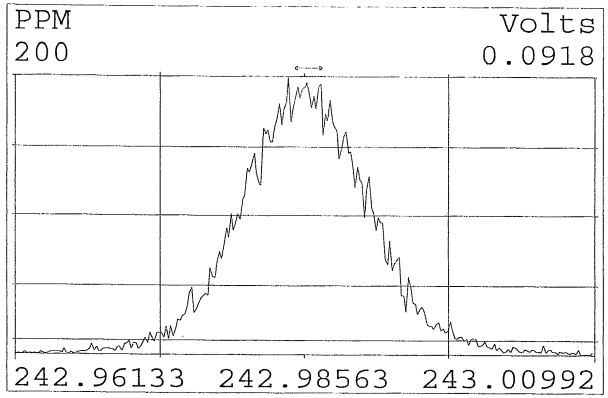


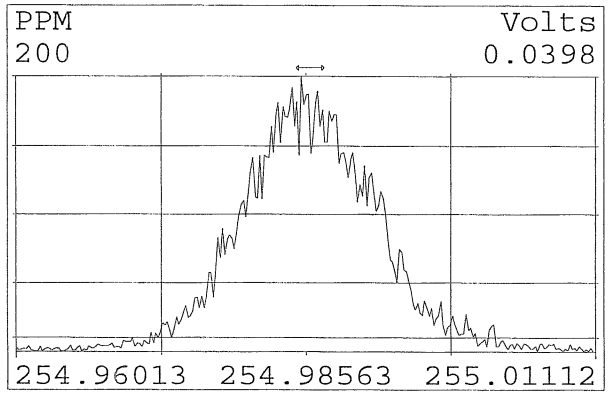


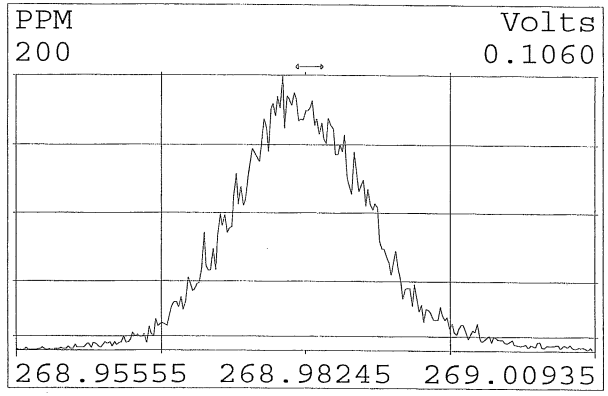
Peak Locate Examination:20-FEB-2016:09:21 File:M2160220
Experiment:1668A Function:2 Reference:PFK

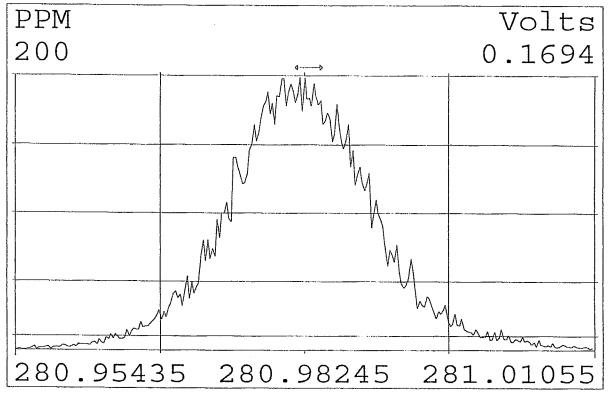


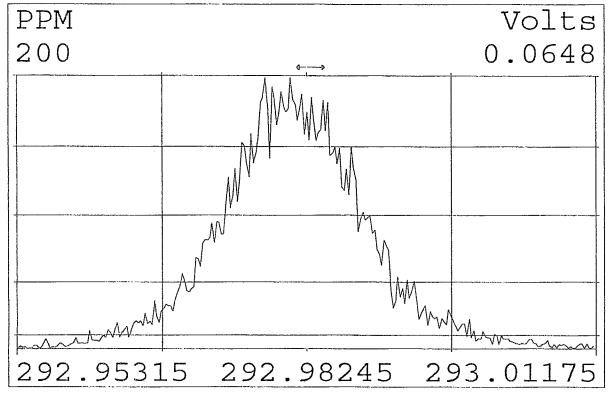


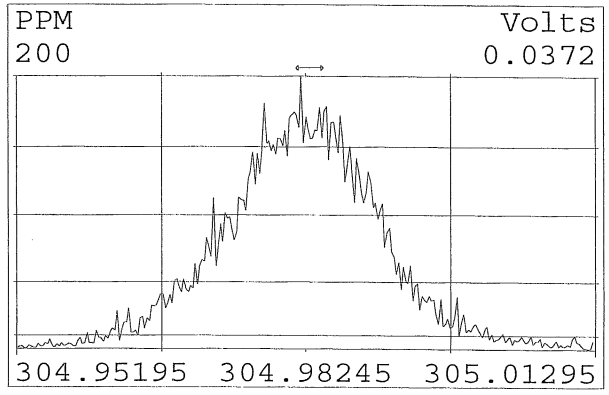




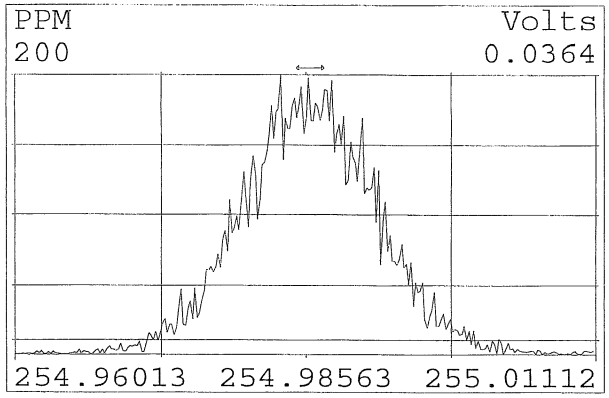


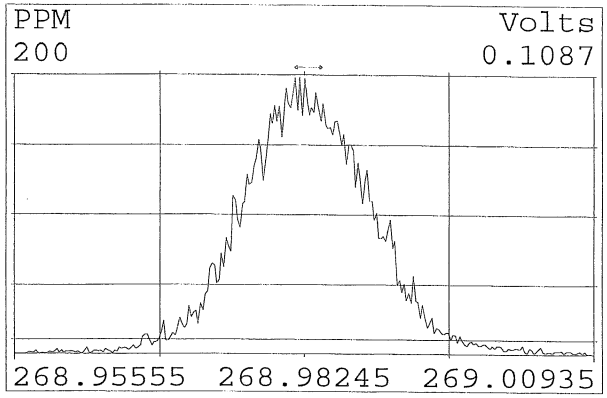


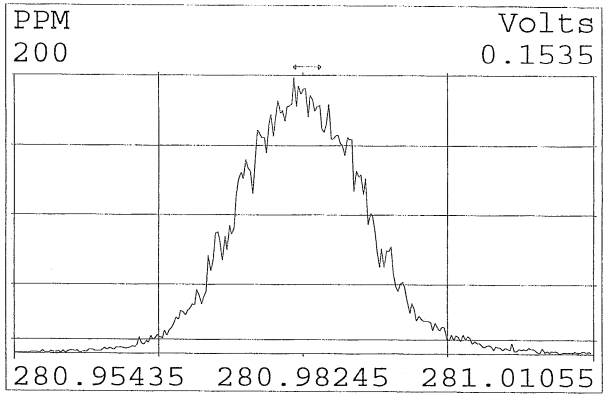


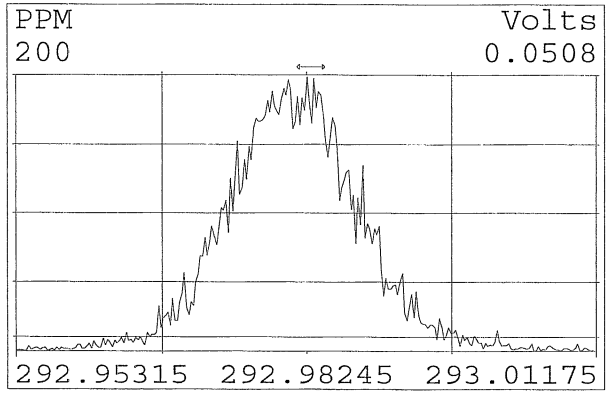


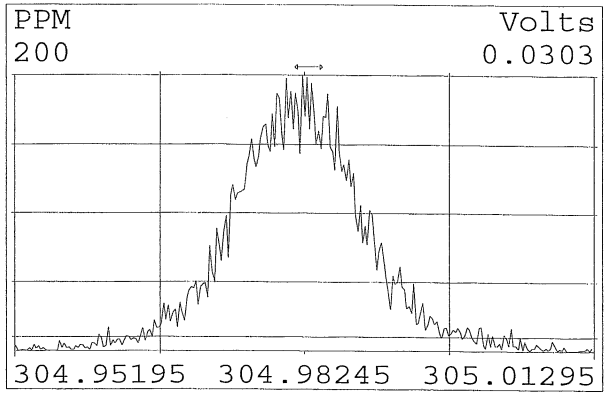
Peak Locate Examination:20-FEB-2016:09:22 File:M2160220
Experiment:1668A Function:3 Reference:PFK

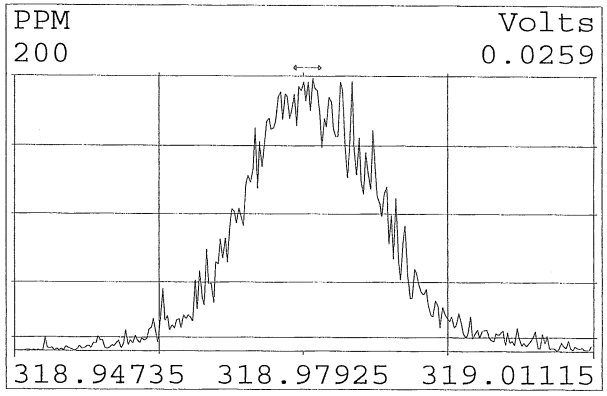


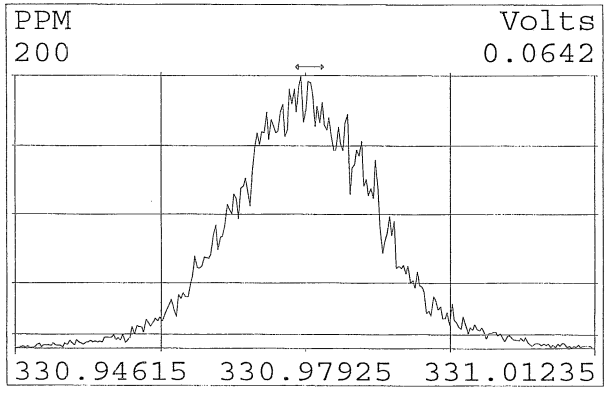


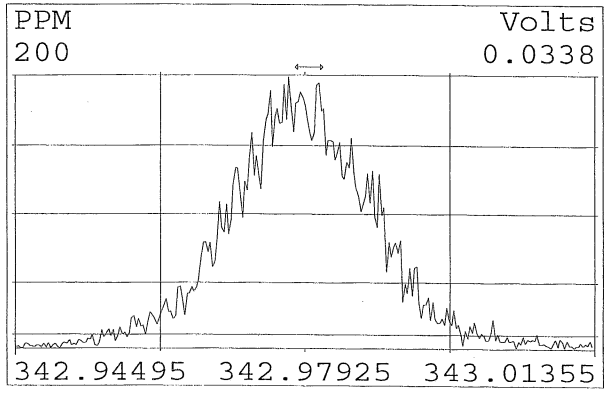




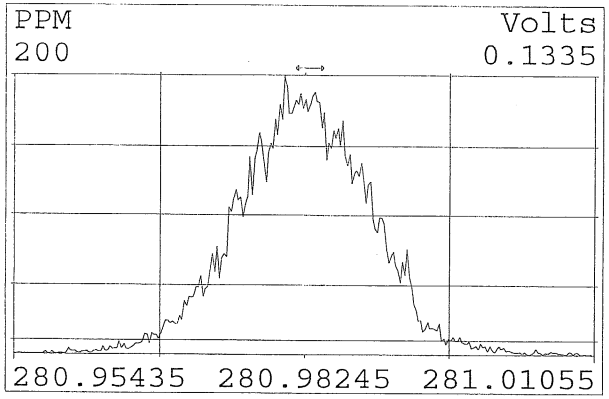


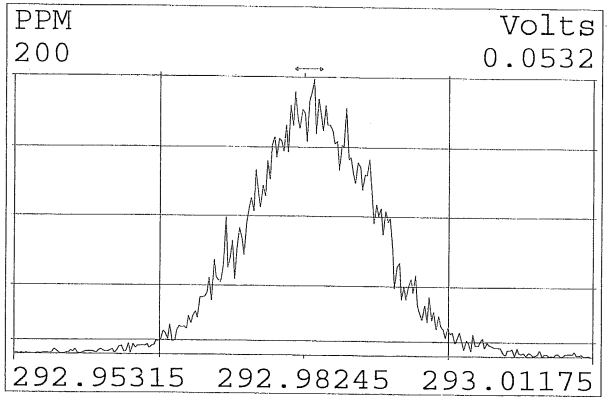


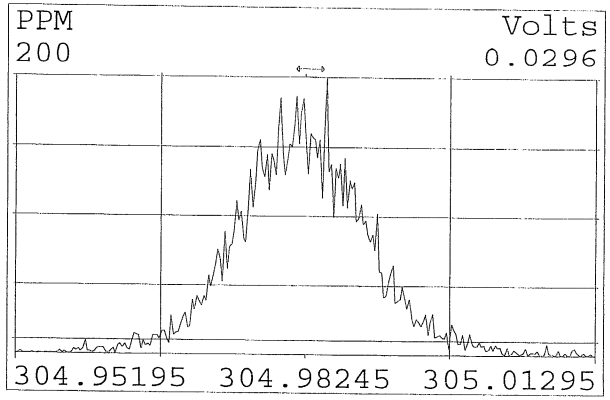


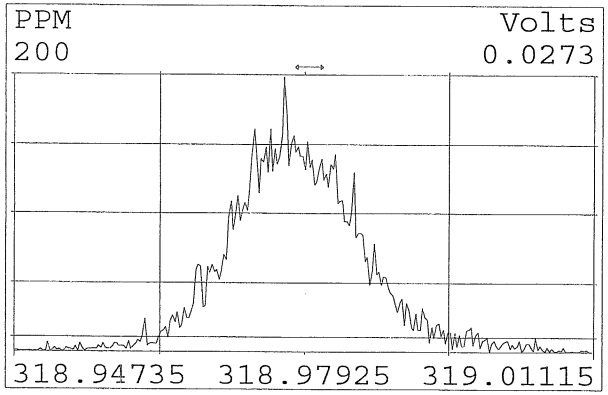


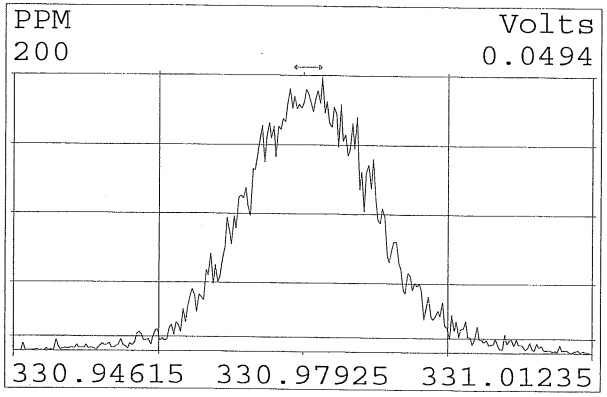
Peak Locate Examination:20-FEB-2016:09:22 File:M2160220
Experiment:1668A Function:4 Reference:PFK

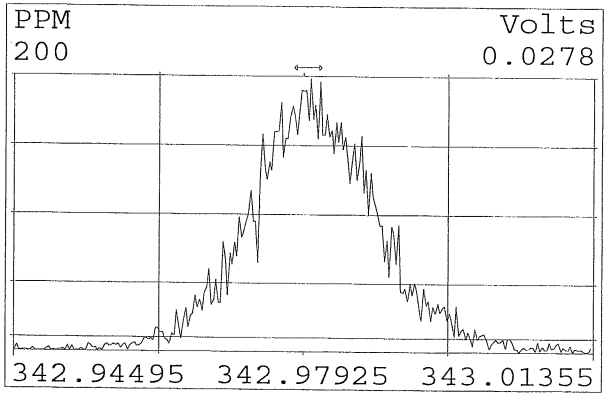


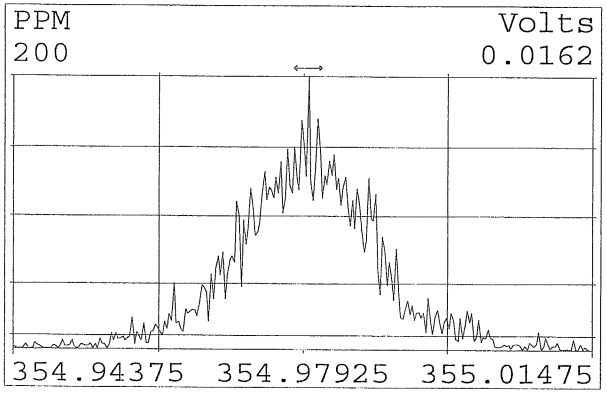


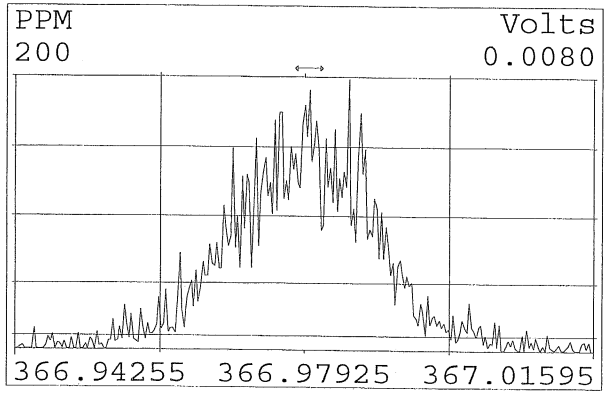


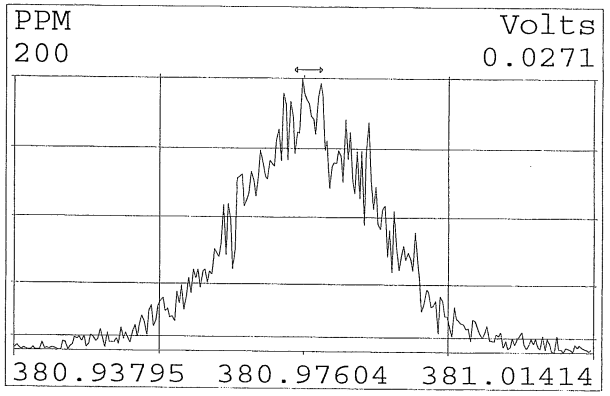




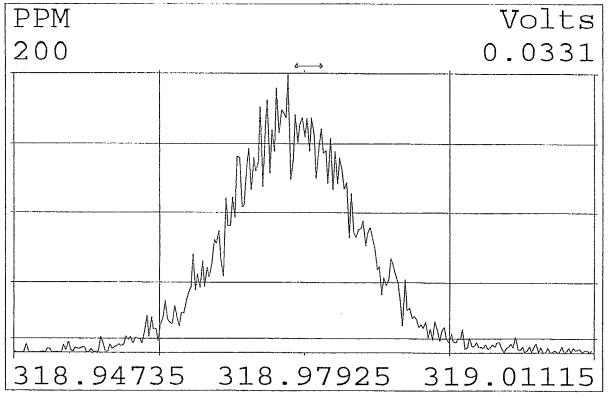


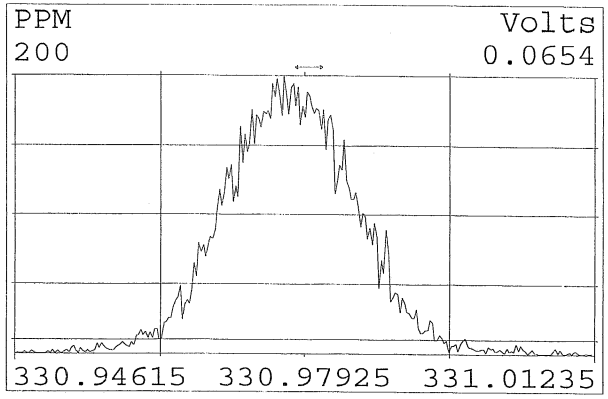


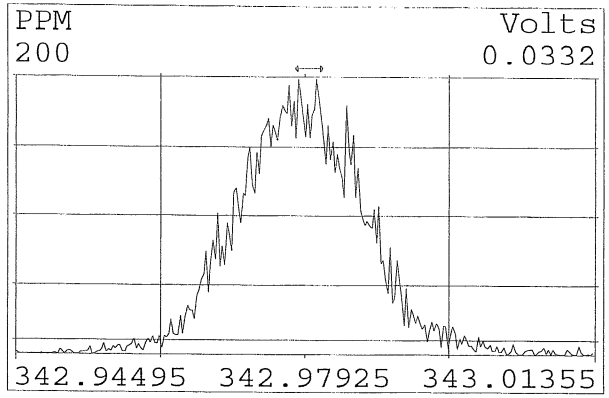


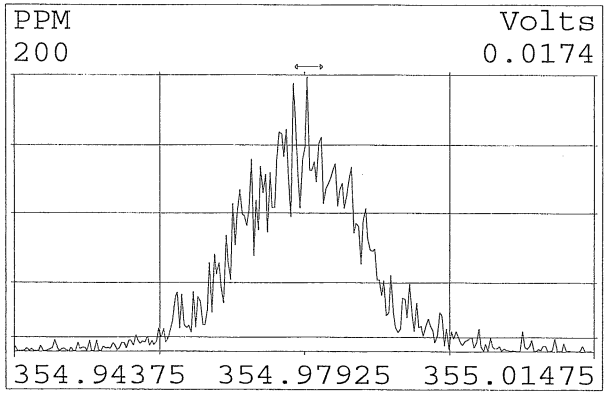


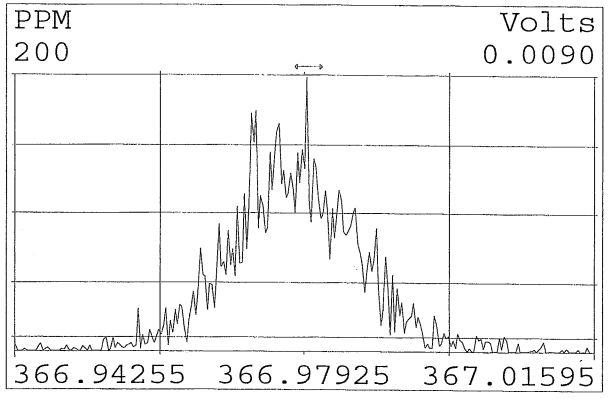
Peak Locate Examination:20-FEB-2016:09:23 File:M2160220
Experiment:1668A Function:5 Reference:PFK

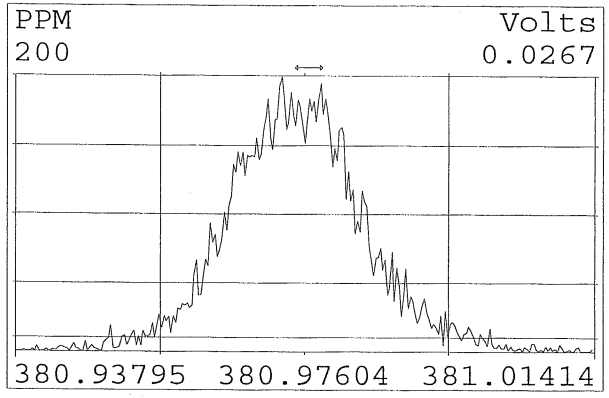


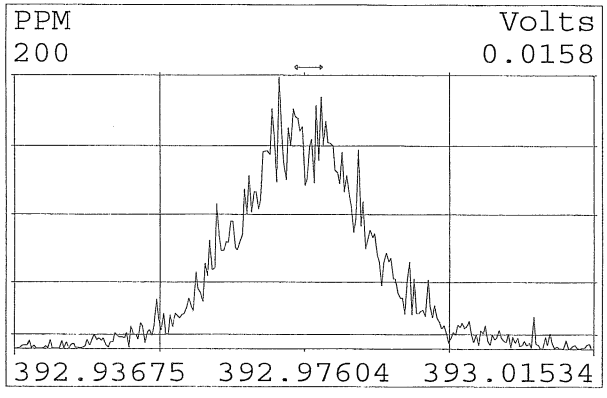


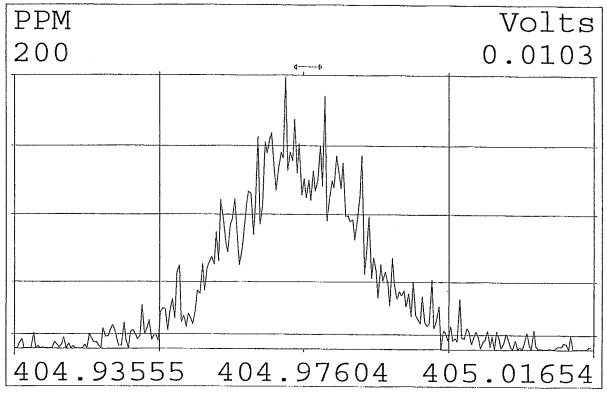


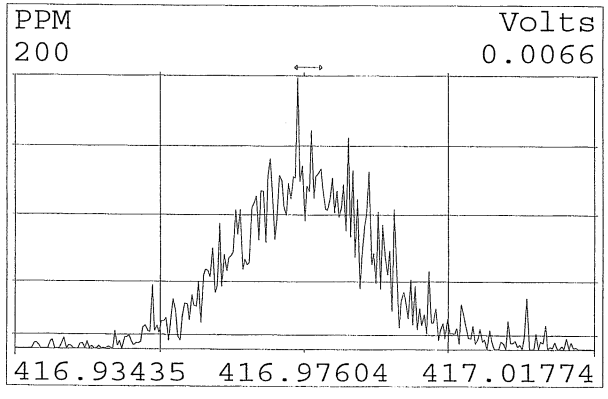




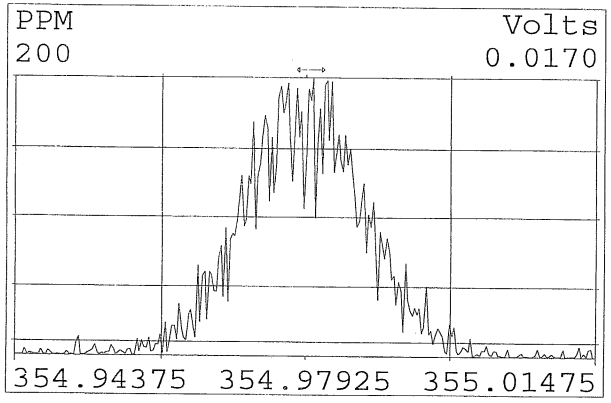


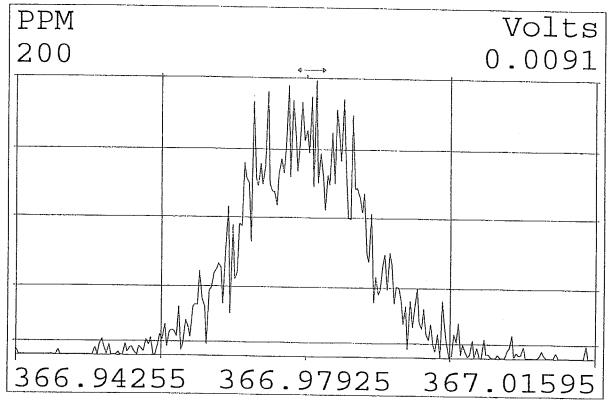


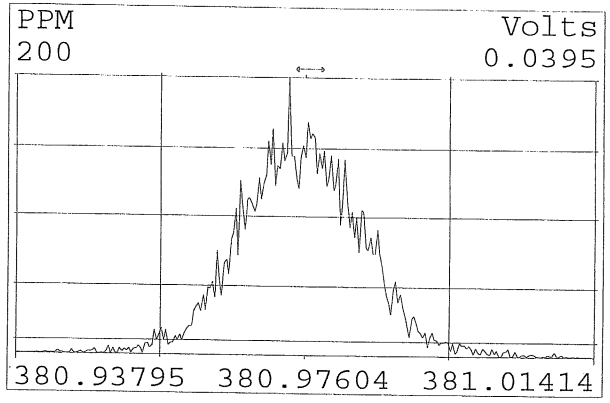


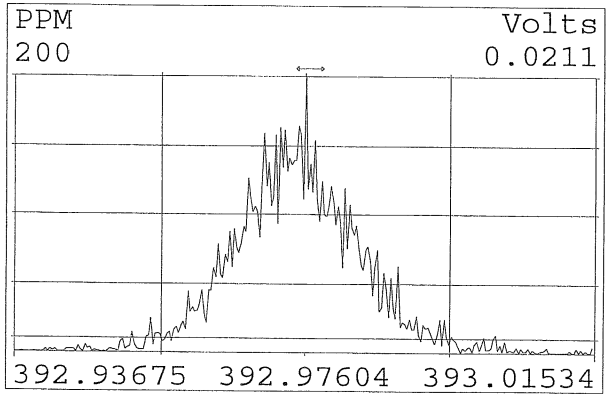


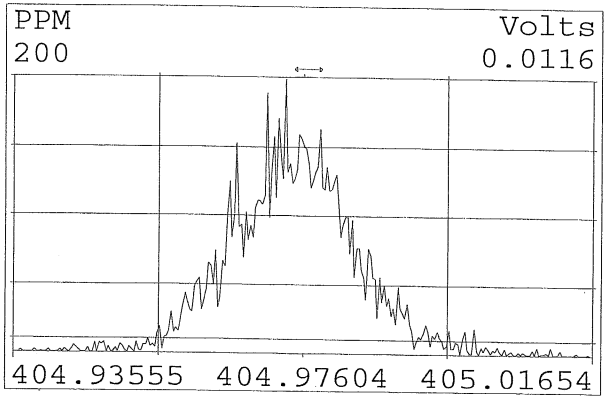
Peak Locate Examination:20-FEB-2016:09:24 File:M2160220
Experiment:1668A Function:6 Reference:PFK

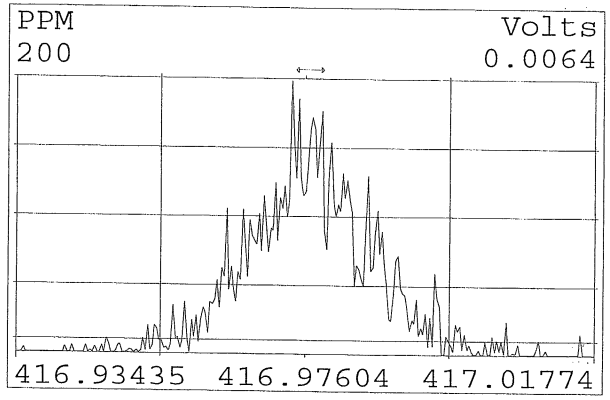


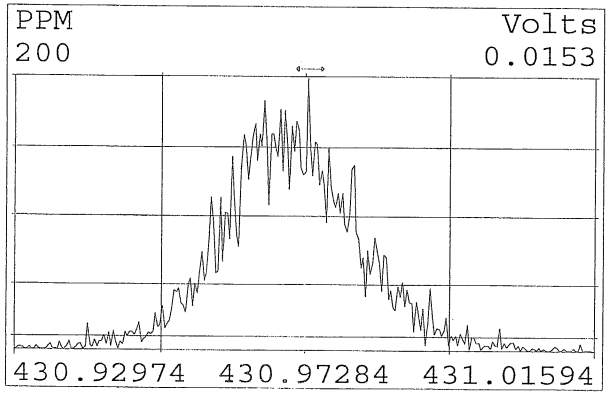


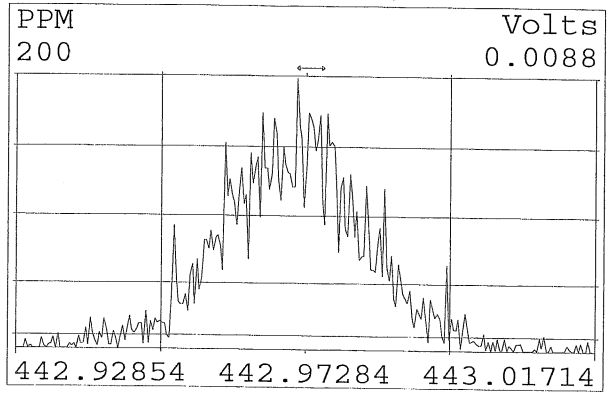




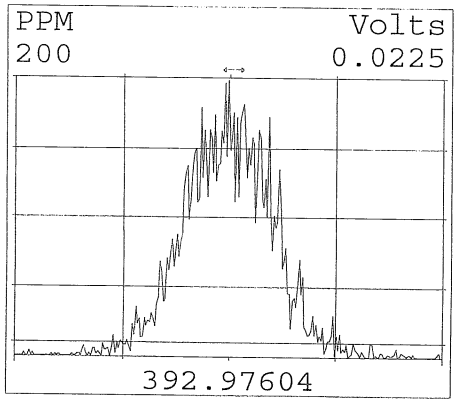


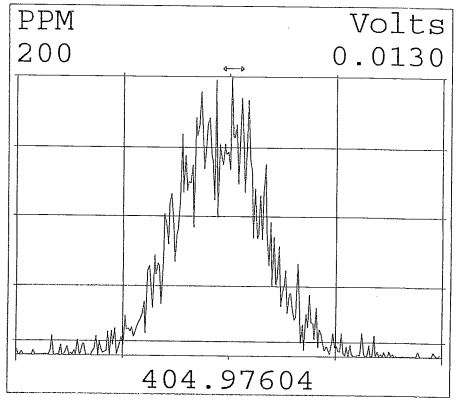


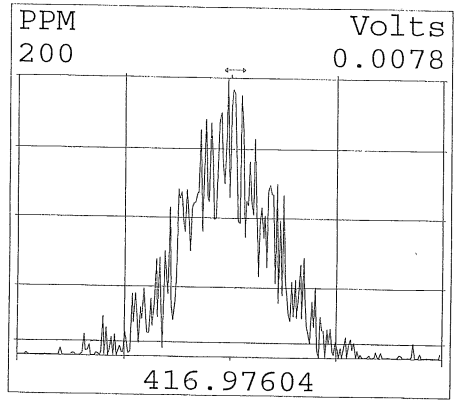


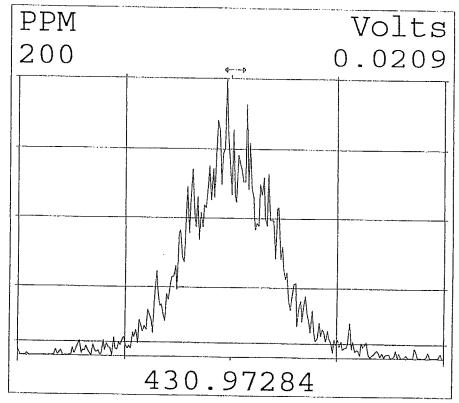


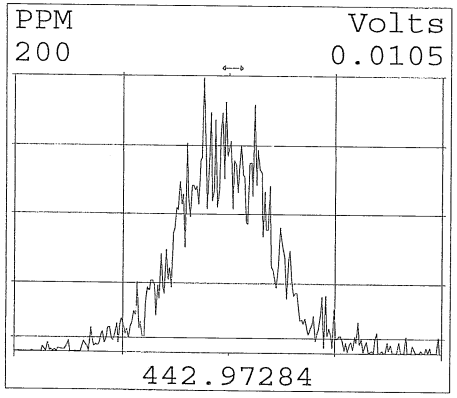
Peak Locate Examination:20-FEB-2016:09:24 File:M2160220
Experiment:1668A Function:7 Reference:PFK

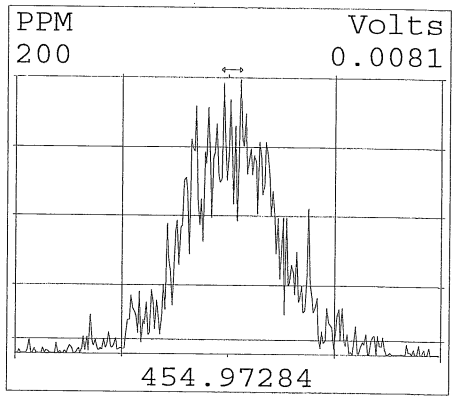


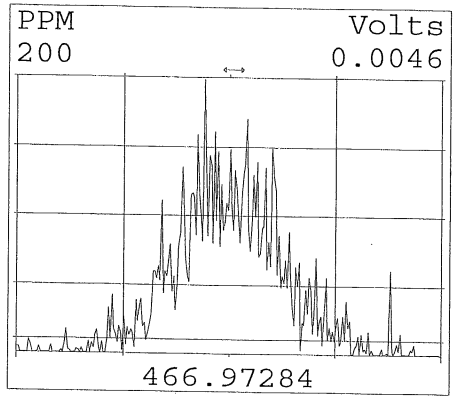


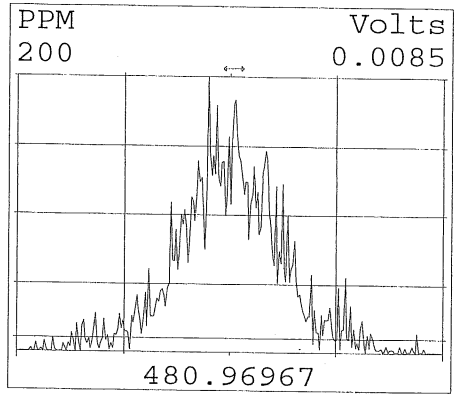


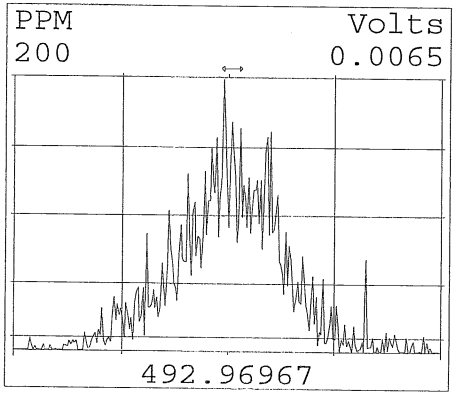


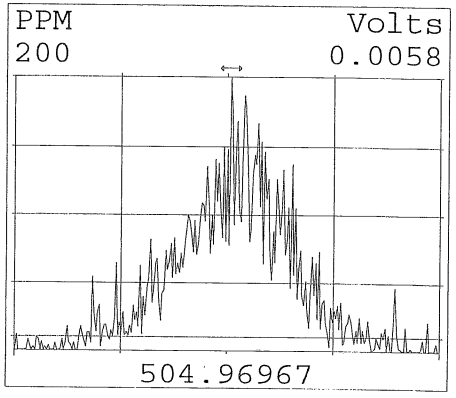


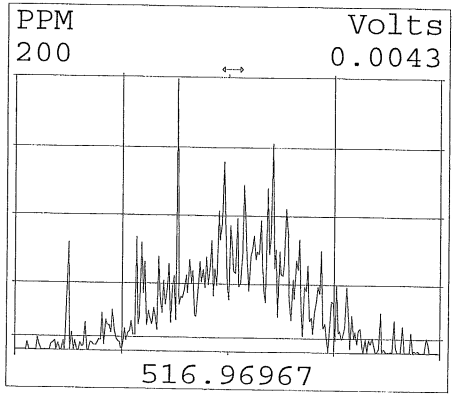












4.2 QA/QC Data

Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

M2160218D - PCB

File Name	File Text	Sample ID	Job	Wt/Vol
M2160211AS002	CS1_PCB 150417CXU	---	---	1.000000
M2160211AS003	CS2_PCB 150417CXU	---	---	1.000000
M2160211AS004	CS3_PCB 150417CXU	---	---	1.000000
M2160211AS005	CS4_PCB 150417CXU	---	---	1.000000
M2160211AS006	CS5_PCB 150417CXU	---	---	1.000000
M2160211AS007	SOLVENT	---	---	1.000000
M2160211AS008	CIL CS3 PCB PR-22535L	---	---	1.000000
M2160211AS009	209MIX_PCB 150822CXU	---	---	1.000000
---	---	---	---	0.000000
---	---	---	---	0.000000
M2160218DS001	CS3_PCB 150417CXU	---	---	1.000000
M2160218DS002	209MIX_PCB 150822CXU	---	---	1.000000
M2160218DS003	SPIKE	WS#4386412/4378609, Ti	---	10.204400
M2160218DS004	SPIKE:D1	WS#4386412/4378609, Ti	---	10.148500
M2160218DS005	SOLVENT	---	---	1.000000
M2160218DS006	BLANK	WS#4386412/4378609, Ti	---	10.271500
M2160218DS007	BRP508-01R	Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti	---	10.237800
M2160218DS008	BRP509-01R	Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti	---	10.141900
M2160218DS009	BRP510-01R	Anchor QEA, PG-WS-1-MUS-COC-160104, Ti	---	10.076300
M2160218DS010	BRP510-01R:D1	Anchor QEA, PG-WS-1-MUS-COC-160104, Ti	---	10.172800
M2160218DS011	BRP511-01R	Anchor QEA, PG-GP-1-MUS-COC-160104, Ti	---	10.019100
M2160218DS012	REF MAT	WS#4386412/4378609, Ti	---	7.884600
M2160218DS013	SOLVENT BLANK	WS#4386412/4378609, Ti	---	1.000000
M2160218DS014	CS3_PCB 150417CXU	---	---	1.000000
M2160218DS018	MSPIKE	WS#4386412/4378609, Ti	---	1.000000

WS# : 4386412

Page #: 1/2

Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Thursday, February 18, 2016

Assigned to : Cathy Xu

Test Code : PCBCONHR-T

Instrument Id: 220-GCHRMS2

Test Description : To determine PCB congeners in tissue - full list of congeners (must specify whether to calculate on Lipid content).

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date
	REF MAT		MHRPD										2016/02/11
	SPIKE	0	MHRPD										2016/02/11
	SPIKE	1	MHRPD										2016/02/11
	BLANK												2016/02/11
B612062	*BRP508-01R		PG-SMA2-2-MUS-*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP509-01R		PG-PJ-1-MUS-COC*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP510-01R	0	PG-WS-1-MUS-CO*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP510-01R	1	PG-WS-1-MUS-CO*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP511-01R		PG-GP-1-MUS-CO*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP512-01R		PG-SMA2-5-MUS-*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP513-01R		PG-SMA2-4-MUS-*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612077	*BRP572-01R		PG-T0-MUS-COC-*						1	2016/10/29	2016/02/23 23:00		2016/02/11
B618913	BTC221-01R		FISH MEAL 5-3444*						1		2016/02/26 17:00		2016/02/11
B622429	BUA897-01R		PCB CONGENERS*						1		2016/02/28 18:00		2016/02/11

Remarks:

Samples extracted by: Sanjaykumar Patel

Instrumentation performed by: Cathy Xu

Calculations performed by: Amyot Hussen Date: 16/02/18

Validated by: Cathy Date: 16-02-23

Date: 16/02/23

Ultra Trace - Worksheet Validation Checklist

Prep Worksheet # 4378609 | Instrument Worksheet # 4386412

Testcode: PREPPCB-T1 | Testcode: PCBCONHR-T

Sample Preparation

		yes	no	n/a
1	Samples extracted within hold time	✓		
2	Client sample ID verified against Lab ID	✓		
3	Job Remarks reviewed on 2nd page of worksheet & testcodes reviewed for spiking	✓		
4	Method required QC processed with samples	✓		
5	Sample, duplicate, matrix spike appear similar, initial sample as well as final extract	✓		
6	Sample weight or initial volume and extract final volume, aliquot factor clearly recorded.	✓		
7	If performed any additional dilution clearly recorded	✓		
8	Spiking solutions valid (haven't expired), ID and volume used clearly identified on worksheet	✓		
9	Spiking process witnessed and signed off	✓		
10	Sample prep deviations documented on Bench Level Deviation Form (CAM FCD-00328)	✓		
11	tracking sheets completed			✓

Prepared by: [signature] Date: 2016/02/11

Comments:

Reviewed by: [signature] 2016/02/18

Primary review by the analyst - 100 % analysis review

		yes	no	n/a
1	System performance check acceptable (if applicable)	✓		
2	Analysis set-up meets method criteria	✓		
3	Tuning and correct calibration used - criteria meets method criteria	✓		
4	SQC/Control Charts updated, analysis in statistical/method control	✓		
5	Internal area counts checked (if applicable)	✓		
6	LCS, SRM are within acceptance criteria			✓
7	Surrogate Recovery(s) is within acceptance criteria	✓		
8	Method Blank meets acceptance criteria	✓		
9	Matrix Spike recovery(s) meets acceptance criteria	✓		
10	Duplicate precision meets acceptance criteria			✓
11	QC is documented on the run logs	✓		
12	Runs checked for carryover	✓		
13	Prep log / worksheet(s) are present, signed / dated by a prep / instrument analysts	✓		
14	Initial weights, splits, impinger volumes (where applicable) are documented	✓		
15	Samples above calibration range diluted and reanalyzed			✓
16	Dilution factors (where justified) have been checked for correctness and entered	✓		
17	Analytical observations/anomalies documented in LIMS	✓		
18	If corrective actions were applied they are documented, initialed & dated			✓
19	Transferred data is approved in LIMS for correctness	✓		
20	Sample Prep section (above) reviewed and verified	✓		
21	Data package assembled (where required)			✓

Data Approved by: [signature] Date: 16-02-23

Comments:

Secondary Supervisor/Qualified Data Review Staff

		yes	no	n/a
1	Repeats documented and referenced	✓		
2	Method and sample deviations noted, anomalies described (if applicable)	✓		
3	Data and QC validated in LIMS	✓		
4	Manual integration – before & after data with a reason included, initialed & dated	✓		
5	Random calculation checked	✓		
6	Worksheet(s) and sample prep sheets (FCDs) signed and dated	✓		
7	Data Package (if required) checked for completeness	✓		

Validation Status Checked by: [signature] Date: 16/02/23

Comments:

Note: Primary and Secondary Internal Data Review Check must be performed by a different person

HRMS Sample Information Transfer

Analyst: Saiyan

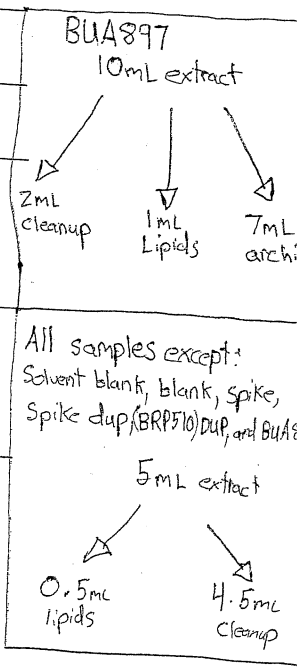
Date: 2016/02/11

WS # 4378609

Extraction Status:

Roto-Vap Status: Done 2016/02/13 MH
Filtered/Transferred 2016/02/13 MH
Lipids done, Started on GPC - MRZ 2016.02.13

Cleanup Status: rotovaped after GPC 2016/02/14 MH
Acid Column Done 2016/02/14 MH
- PCB column done, need to blow down. 2016/02/16 MR



Reacti-Vial: done 2016.02.18 2016/02/18

Completion Date: 2016/02/18

HR Soil/Tissue/Food Tracking Sheet

Maxxam Analytics

Solvent	Lot No
$MeCl_2$	157981
Hexane	157979
Toluene	
Iso Octane	157042
Na_2SO_4	153169
Acetone	
Silica	
DF	24

	Date & Time
Soxhlet Burner On	2016/02/11 4:30pm
Soxhlet Burner Off	2016/02/12 9 Am.
GPC'd By	MRZ
GPC Date	20160213
GPC ID #	2
FMS Used by:-	

*Note: If samples are cleaned up by FMS then attach the FMS FCD.

Extracted by:-	SDT
Cleaned up by:-	MH, SDT
ID of Balance Used	1
Rotovape ID	6, 2, 1, 7

WS#	A378609
Spiking Witness by:-	KJ, LG 2016/02/11

Solvent/Absorbent	Lot#/Lab ID
44% Acid Silica	
33%KOH Silica	
10% AgNO3	
Surrogate/Spike solutions	
EPA Mtd 23 Internal Srd Soln	
EPA Mtd 23 Matrix Spiking Soln	
EPA Mtd 1613 Internal Std. Soln	
EPA Mtd 1613 Matrix Spiking Soln	
EPA Mtd 1613 Alt. Spike (Clean-up)	
EPA Region IV (8290) Internal Std Soln	
EPA Region IV (8290)Mat. Spiking Soln	

Solvent/Absorbent	Lot#/Lab ID
4%DCM : Hexane	
Alumina	
50%DCM : Cyclohex.	

Solvent/Absorbent	Lot#/Lab ID
50% Tolue.:Ethy.Acet	
50%DCM : Hexane	
Carbon/Celite	

Solvent/Absorbent	Lot#/Lab ID
H2So4	
KOH	
Carbon	

Syringe ID	Concentration	Prep. Date/Code	MTD SPK	Mx. Spk.	Samples
	13C12-T4-H7DD/DF @ 100 pg/ul 13C12-O8CDD @ 200 pg/ul				
	T4-H7DD/DF @ 250pg/ul O8CDD/DF @ 500pg/ul				
	13C12-T4-H7DD/DF @ 100pg/ul 13C12-O8CDD @ 200pg/ul				
	T4@ 40 P5-H7DD/DF @200 pg/ul O8CDD/DF @ 400 pg/ul				
	37Cl4-2378-T4CDD @ 40pg/ul				
	13C12-T4-P5@100pg/ul H6-H7@250 pg/ul 13C12O8CDD@500 pg/ul				
	T4-H7DD/DF @ 25 pg/ul O8CDD/DF @ 50 pg/ul				

PAHs

Solvent/ Absorbent	Lot#/Lab ID
1% Deati. Alumina	
Surrogate/Spike solutions	
CARB 429 Internal Std Soln (PAH)	
CARB 429 Matrix Spiking Soln	

Syringe ID	Concentration	Prep. Date/Code	MTD SPK	Mx. Spk.	Samples
	5-10 ng/ul				
	5ng/ul				

PCBs

Solvent/ Absorbent	Lot#/Lab ID
44% Acid Silica	2016/02/02 07
Copper	OPC
3% Deactivated Florisil	2016-02-05 #2
Surrogate/Spike solutions	
HR PCB Internal Std Soln	
HR PCB Matrix Spiking Soln	
HR PCB Alternate (Clean-up) Spike	

Solvent/ Absorbent	Lot#/Lab ID
3% Deactivated Silica	2016-02-05 #2
Nonane	SHB D8765V

Solvent/ Absorbent	Lot#/Lab ID
H2SO4	
HCl	

Syringe ID	Concentration	Prep. Date/Code	MTD SPK	Mx. Spk.	Samples
15HRms-22 ✓	0.4ng/ul	150409CX40) 1/2 ✓	5ul	5ul	5ul
15HRms-23 ✓	0.1ng/uL	150414 CXU 1/2 ✓	10ul	10ul	-
14 HRms - 13	0.4ng/uL	15 04 10 CXU 1/2	5ul	5ul	5ul
14HRms 27					

Ocs

Solvent/ Absorbent	Lot#/Lab ID
Petroleum Ether	
Ethyl Acetate	
Surrogate/Spike solutions	
HR OC Internal Std Soln	
HR OC Matrix Spiking Soln	

Solvent/ Absorbent	Lot#/Lab ID
1% Deactivated Florisil	
20%Ethyl Acet: Petroleum Ether	

Syringe ID	Concentration	Prep. Date/Code	MTD SPK	Mx. Spk.	Samples
	4ng/uL				
	5ng/uL				

COMMENTS:-

WS# : 4378609

Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Thursday, February 11, 2016

Assigned to : Sanjaykumar Patel

Test Code : PREPPCB-TI

Instrument Id:

Test Description : Preparation of tissue by 1668 for PCBs

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date	
	REF MAT		B1974C		T40	7.8846	100mL					T40	2016/02/11	
	SPIKE	0	BFM737		T31	0.2044	1					T153	2016/02/11	W108
	SPIKE	1	BFM737		T67	0.1485						T174	2016/02/11	GP77
	BLANK		BFM737		T69	0.2715						T5	2016/02/11	GP131
B612062	BRP508-01R		PG-SMA2-2-MUS-*		T151	0.2378			1	2017/01/03	2016/02/10 18:00	T186	2016/02/11	GP92
B612062	BRP509-01R		PG-PJ-1-MUS-COC*		T161	0.1419			1	2017/01/03	2016/02/10 18:00	T36	2016/02/11	GP57
B612062	BRP510-01R	0	PG-WS-1-MUS-CO*		T162	0.0763			1	2017/01/03	2016/02/10 18:00	T187	2016/02/11	GP18
B612062	BRP510-01R	1	PG-WS-1-MUS-CO*		T153	0.1728			1	2017/01/03	2016/02/10 18:00	T171	2016/02/11	GP123
B612062	BRP511-01R		PG-GP-1-MUS-CO*		T50	0.0191			1	2017/01/03	2016/02/10 18:00	T193	2016/02/11	T159
B612062	BRP512-01R		PG-SMA2-5-MUS-*		T164	0.6344			1	2017/01/03	2016/02/10 18:00	T155	2016/02/11	GP11
B612062	BRP513-01R		PG-SMA2-4-MUS-*		T35	0.1339			1	2017/01/03	2016/02/10 18:00	B34	2016/02/11	GP16
B612077	BRP572-01R		PG-T0-MUS-COC-*		T9	0.0914			1	2016/10/29	2016/02/10 18:00	T198	2016/02/11	GP113
B618913	BTC221-01R		FISH MEAL 5-3444*		T36	0.2362		5	1		2016/02/22 17:00	T200	2016/02/11	GP127/8
B622429	BUA897-01R		PCB CONGENERS*		T150	0.3555		10X	1		2016/02/21 18:00	T191	2016/02/11	GP8C
	BLK		Nasson/Solvent		T38							T17		GP91
	MST													

Remarks: 2016 02 13 BUA897 1/5 of sample extract used for cleanup MR2

Samples extracted by: Sanjaykumar Patel

Instrumentation performed by: _____ Date: _____

Calculations performed by: _____ Date: _____

Validated by: _____ Date: _____

Job No.	Rep / Client Name / Remarks	Contact	Client Tier	National
GB612062	MDG Anchor QEA, LLC PCBCONHR-T ANCHOR QEA Project. ***Please extract SRM and Spike Dup*** 4 week TAT ANCHOR EQuis EDD. Please contact client before disposal of samples. Store any remaining mass frozen. Project #: ATS0	Anchor QEA Reporting		
GB612077	MDG Anchor QEA, LLC PCBCONHR-T Anchor QEA Project. ***Please extract SRM and Spike Dup*** 4 week TAT ANCHOR EQuis required. Please contact client prior to disposal. Store any remaining mass frozen. Project #: APR4	Anchor QEA Reporting		
FB618913	MDC Maxxam BRL PT Programs Project #: BIPEA JANUARY 2016	Salima Haniff	Tier 4 (Enviro.)	
GB622429	MDC Maxxam BRL PT Programs Please report data for DF8290-S and DF1613-S on separate final reports. Refer to the attached sample handling instructions before processing samples. Project #: LPTP16-S1	Salima Haniff	Tier 4 (Enviro.)	

2016/02/11

Surrogates/Spikes	Method Spike	Spikes	Samples

Sample	Preparation Remarks

Sample	Instrumentation Remarks

REPORTING PACKET

First Choice for Quality | SIGMA-ALDRICH RTC

B622429

PCB CONGENERS IN FISH TISSUE - PT

Sample Item Number **SPE068TIS-30G**

Description

The PT sample size provided is 30 g of biological fish matrix. Recommended storage condition is 4º C.

Sample Preparation

Mix Prior to use. Recommended minimum sampling size is 1 gram. Analyze The sample using the preparatory and determinative method(s) for which you are seeking accreditation. Note: Sample extracts and calibration solutions should be in the same solvent. Report on a dry weight basis.

GROUP NAME: HRMS Prep

BATCH DATE: 2016/02/11

TEST CODES: LIPID-TI

Analyst: MR2

Balance ID#: BAL-1

Lipid WS#:

Extraction WS#	SAMPLE #	Sample Wgt. (g)	Final vol. (mL)	Vol. Used for Lipid (mL)	Wgt. Of dish (g)	Wgt of dish and dry lipid extract (g)	Lipid in extract	% Lipid
4378609	BRP508	10.2378	5	0.5	1.0032	1.0151	0.119	1.2
4378609	BRP509	10.1419	5	0.5	1.0194	1.028	0.086	0.8
4378609	BRP510	10.0763	5	0.5	1.0187	1.0296	0.109	1.1
4378609	BRP511	10.0191	5	0.5	1.0086	1.0193	0.107	1.1
4378609	BRP512	10.6344	5	0.5	1.0161	1.026	0.099	0.9
4378609	BRP513	10.1339	5	0.5	1.0041	1.0123	0.082	0.8
4378609	BRP572	10.0914	5	0.5	1.0016	1.0138	0.122	1.2
4378609	BTC221	10.2362	5	0.5	1.0024	1.0881	0.857	8.4 2X
4378609	BUA897	10.3555	10	1	1.0126	1.1944	1.818	17.6
4378609	Ref. Mat.	7.8846	5	0.5	1.005	1.0119	0.069	0.9
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
							#DIV/0!	#DIV/0!
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							#DIV/0!	#DIV/0!
							#DIV/0!	#DIV/0!
							#DIV/0!	#DIV/0!

Filename M2160218DS006
Acquired 18/02/2016 22:38 Cali File M2160218D_209

Sample ID BLANK
Comments
Instrument File Ultima 3
Sample Size 10.272 Dil Fac 1.00

	Name	mass	RT	Area	ratio	Tot Area	ng	Code	Isomers DL	S/N	Mod	rrf	Rec
1	PCB 1	188	NotFnd	*	*	*	-0.00061		-0.00061	*	no	1.082	-
		MoCB 190	8.98	*	no					*			
2	PCB 2	188	NotFnd	*	*	*	-0.00055		-0.00055	*	no	1.2	-
		MoCB 190	10.10	*	no					*			
3	PCB 3	188	NotFnd	*	*	*	-0.00061		-0.00061	*	no	1.079	-
		MoCB 190	10.19	*	no					*			
4	PCB 4	222	NotFnd	*	*	*	-0.00208		-0.00208	*	no	0.954	-
		DiCB 224	10.29	*	no					*			
5	PCB 10	222	NotFnd	*	*	*	-0.00162		-0.00162	*	no	1.229	-
		DiCB 224	10.36	*	no					*			
6	PCB 9	222	NotFnd	*	*	*	-0.00201		-0.00201	*	no	1.311	-
		DiCB 224	11.18	*	no					*			
7	PCB 7	222	NotFnd	*	*	*	-0.00226		-0.00226	*	no	1.165	-
		DiCB 224	11.26	*	no					*			
8	PCB 6	222	NotFnd	*	*	*	-0.002		-0.002	*	no	1.319	-
		DiCB 224	11.34	*	no					*			
9	PCB 5	222	NotFnd	*	*	*	-0.00268		-0.00268	*	no	0.983	-
		DiCB 224	11.50	*	no					*			
10	PCB 8	222	11.55	-2461	1.56	-4038.56	-0.00227	PCB 8 NDR	-0.00181	45	xL	1.456	-
		DiCB 224	11.55	-1577.56	OK					4			
11	PCB 14	222	NotFnd	*	*	*	-0.00198		-0.00198	*	no	1.332	-
		DiCB 224	12.26	*	no					*			
12	**PCB 11**	**222**	**12.64**	**8466**	**1.43**	**14390**	**0.009181**		-0.00205	120	yes	1.285	-
		DiCB 224	12.66	5924	yes					8			
13	PCB 13/12	222	NotFnd	*	*	*	-0.00218		-0.00218	*	no	1.21	-
		DiCB 224	12.81	*	no					*			
14	PCB 15	222	NotFnd	*	*	*	-0.00303		-0.00303	*	no	0.871	-
		DiCB 224	12.96	*	no					*			
15	PCB 19	256	NotFnd	*	*	*	-0.00219		-0.00219	*	no	0.899	-
		TriCB 258	11.70	*	no					*			
16	PCB 30/18	256	12.49	1114	1.04	2182	-0.00242		-0.00242	*	yes	0.813	-
		TriCB 258	12.48	1068	no					*			
17	PCB 17	256	12.68	485	1.11	920	-0.00289		-0.00289	*	yes	0.683	-
		TriCB 258	12.69	435	no					*			
18	PCB 27	256	NotFnd	*	*	*	-0.00197		-0.00197	*	no	1.002	-
		TriCB 258	12.78	*	no					*			
19	PCB 24	256	NotFnd	*	*	*	-0.00231		-0.00231	*	no	0.855	-
		TriCB 258	12.87	*	no					*			
20	PCB 16	256	12.91	399	1.28	711	-0.00393		-0.00393	*	yes	0.501	-
		TriCB 258	12.90	311	no					*			
21	PCB 32	256	13.14	421	1.12	798	-0.0018		-0.0018	*	yes	1.093	-
		TriCB 258	13.14	377	no					*			
22	PCB 34	256	NotFnd	*	*	*	-0.0005		-0.0005	*	no	1.235	-
		TriCB 258	13.74	*	no					*			
23	PCB 23	256	NotFnd	*	*	*	-0.0006		-0.0006	*	no	1.033	-
		TriCB 258	13.82	*	no					*			
24	**PCB 26/29**	**256**	**13.97**	**584**	**1.02**	**1158**	**0.000689**		-0.00051	5	yes	1.221	-
		TriCB 258	13.99	574	yes					5			
25	PCB 25	256	NotFnd	*	*	*	-0.00047		-0.00047	*	no	1.334	-
		TriCB 258	14.10	*	no					*			
26	**PCB 31**	**256**	**14.26**	**3058**	**0.96**	**6241**	**0.003395**		-0.00047	25	no	1.335	-
		TriCB 258	14.26	3182	yes					27			
27	**PCB 28/20**	**256**	**14.42**	**3570**	**1**	**7144**	**0.004359**		-0.00052	28	no	1.191	-
		TriCB 258	14.43	3574	yes					28			
28	**PCB 21/33**	**256**	**14.55**	**2069**	**1.08**	**3984**	**0.002306**		-0.0005	15	no	1.255	-
		TriCB 258	14.53	1914	yes					15			
29	**PCB 22**	**256**	**14.75**	**1262**	**1.02**	**2496**	**0.001609**		-0.00055	9	no	1.127	-
		TriCB 258	14.76	1234	yes					10			
30	PCB 36	256	NotFnd	*	*	*	-0.0004		-0.0004	*	no	1.57	-
		TriCB 258	15.60	*	no					*			
31	PCB 39	256	NotFnd	*	*	*	-0.00047		-0.00047	*	no	1.32	-
		TriCB 258	15.83	*	no					*			
32	PCB 38	256	NotFnd	*	*	*	-0.00043		-0.00043	*	no	1.438	-
		TriCB 258	16.18	*	no					*			
33	PCB 35	256	NotFnd	*	*	*	-0.00039		-0.00039	*	no	1.597	-
		TriCB 258	16.45	*	no					*			
34	**PCB 37**	**256**	**16.70**	**1380**	**1.06**	**2682**	**0.001432**		-0.00069	9	no	0.906	-
		TriCB 258	16.70	1303	yes					9			
35	PCB 54	290	NotFnd	*	*	*	-0.00016		-0.00016	*	no	0.911	-
		TCB 292	13.08	*	no					*			
36	PCB 53/50	290	NotFnd	*	*	*	-0.00198		-0.00198	*	no	0.654	-
		TCB 292	14.11	*	no					*			
37	PCB 45/51	290	NotFnd	*	*	*	-0.00204		-0.00204	*	no	0.633	-
		TCB 292	14.49	*	no					*			
38	PCB 46	290	NotFnd	*	*	*	-0.00234		-0.00234	*	no	0.554	-
		TCB 292	14.64	*	no					*			
39	**PCB 52**	**290**	**15.36**	**1101**	**0.86**	**2379**	**0.00202**		-0.00155	5	no	0.834	-
		TCB 292	15.38	1277	yes					4			
40	PCB 73	290	NotFnd	*	*	*	-0.00159		-0.00159	*	no	0.813	-
		TCB 292	15.46	*	no					*			
41	PCB 43	290	NotFnd	*	*	*	-0.00251		-0.00251	*	no	0.516	-
		TCB 292	15.52	*	no					*			
42	**PCB 69/49**	**290**	**15.65**	**896**	**0.88**	**1920**	**0.001598**		-0.00152	4	yes	0.851	-
		TCB 292	15.64	1024	yes					4			

43 PCB 48	290	NotFnd	*	*	*	-0.00192		-0.00192	*	no	0.673	-		
	TCB 292	15.84	*	no					*					
44 PCB 44/47/65	290	15.98	-1857.24	0.77	-4269.24	-0.00387	PCB 44/47/65 NDR	-0.00165	9	xL	0.783	-		
	TCB 292	15.98	-2412	OK					8					
45 PCB 59/62/75	290	NotFnd	*	*	*	-0.00127		-0.00127	*	no	1.017	-		
	TCB 292	16.16	*	no					*					
46 PCB 42	290	NotFnd	*	*	*	-0.0019		-0.0019	*	no	0.682	-		
	TCB 292	16.29	*	no					*					
47 PCB 40/41/71	290	NotFnd	*	*	*	-0.00179		-0.00179	*	no	0.724	-		
	TCB 292	16.58	*	no					*					
48 PCB 64	290	NotFnd	*	*	*	-0.0014		-0.0014	*	no	0.922	-		
	TCB 292	16.71	*	no					*					
49 PCB 72	290	NotFnd	*	*	*	-0.00084		-0.00084	*	no	1.304	-		
	TCB 292	17.19	*	no					*					
50 PCB 68	290	NotFnd	*	*	*	-0.0009		-0.0009	*	no	1.22	-		
	TCB 292	17.40	*	no					*					
51 PCB 57	290	NotFnd	*	*	*	-0.0009		-0.0009	*	no	1.221	-		
	TCB 292	17.68	*	no					*					
52 PCB 58	290	NotFnd	*	*	*	-0.00106		-0.00106	*	no	1.035	-		
	TCB 292	17.83	*	no					*					
53 PCB 67	290	NotFnd	*	*	*	-0.00082		-0.00082	*	no	1.347	-		
	TCB 292	17.94	*	no					*					
54 PCB 63	290	NotFnd	*	*	*	-0.00088		-0.00088	*	no	1.253	-		
	TCB 292	18.13	*	no					*					
55 PCB 61/70/74/76	**290**	**18.34**	**3641**	**0.81**	**8119**	**0.005187**		-0.00099	10	no	1.109	-		
	TCB 292	18.34	4478	yes					10					
56 PCB 66	**290**	**18.57**	**2251**	**0.84**	**4921**	**0.002808**		-0.00089	8	no	1.241	-		
	TCB 292	18.58	2670	yes					9					
57 PCB 55	290	NotFnd	*	*	*	-0.0011		-0.0011	*	no	0.998	-		
	TCB 292	18.71	*	no					*					
58 PCB 56	290	NotFnd	*	*	*	-0.0011		-0.0011	*	no	0.995	-		
	TCB 292	19.05	*	no					*					
59 PCB 60	290	NotFnd	*	*	*	-0.00111		-0.00111	*	no	0.988	-		
	TCB 292	19.22	*	no					*					
60 PCB 80	290	NotFnd	*	*	*	-0.0009		-0.0009	*	no	1.224	-		
	TCB 292	19.48	*	no					*					
61 PCB 79	290	NotFnd	*	*	*	-0.00075		-0.00075	*	no	1.462	-		
	TCB 292	20.61	*	no					*					
62 PCB 78	290	NotFnd	*	*	*	-0.00085		-0.00085	*	no	1.287	-		
	TCB 292	21.06	*	no					*					
63 PCB 81	290	NotFnd	*	*	*	-0.00107		-0.00107	*	no	1.027	-		
	TCB 292	21.43	*	no					*					
64 PCB 77	290	NotFnd	*	*	*	-0.00102		-0.00102	*	no	1.077	-		
	TCB 292	21.87	*	no					*					
65 PCB 104	326	NotFnd	*	*	*	-0.00015		-0.00015	*	no	1.094	-		
	PeCB 328	15.94	*	no					*					
66 PCB 96	326	NotFnd	*	*	*	-0.00018		-0.00018	*	no	0.874	-		
	PeCB 328	16.16	*	no					*					
67 PCB 103	326	NotFnd	*	*	*	-0.00085		-0.00085	*	no	0.739	-		
	PeCB 328	17.32	*	no					*					
68 PCB 94	326	NotFnd	*	*	*	-0.00117		-0.00117	*	no	0.54	-		
	PeCB 328	17.47	*	no					*					
69 PCB 95	326	NotFnd	*	*	*	-0.00092		-0.00092	*	no	0.683	-		
	PeCB 328	17.77	*	no					*					
70 PCB 100/93/102/98	326	NotFnd	*	*	*	-0.00102		-0.00102	*	no	0.619	-		
	PeCB 328	17.93	*	no					*					
71 PCB 88/91	326	NotFnd	*	*	*	-0.00101		-0.00101	*	no	0.625	-		
	PeCB 328	18.31	*	no					*					
72 PCB 84	326	NotFnd	*	*	*	-0.00118		-0.00118	*	no	0.534	-		
	PeCB 328	18.50	*	no					*					
73 PCB 89	326	NotFnd	*	*	*	-0.00108		-0.00108	*	no	0.582	-		
	PeCB 328	18.84	*	no					*					
74 PCB 121	326	NotFnd	*	*	*	-0.00083		-0.00083	*	no	0.761	-		
	PeCB 328	19.08	*	no					*					
75 PCB 92	326	NotFnd	*	*	*	-0.00105		-0.00105	*	no	0.598	-		
	PeCB 328	19.35	*	no					*					
76 PCB 113/90/101	**326**	**19.78**	**3898**	**1.72**	**6158**	**0.005859**		-0.00089	20	no	0.71	-		
	PeCB 328	19.76	2260	yes					17					
77 PCB 83/99	**326**	**20.23**	**2731**	**1.65**	**4382**	**0.004753**		-0.00101	13	no	0.623	-		
	PeCB 328	20.22	1652	yes					12					
78 PCB 112	326	NotFnd	*	*	*	-0.00077		-0.00077	*	no	0.819	-		
	PeCB 328	20.33	*	no					*					
79 PCB 109/119/86/97/125/	**326**	**20.67**	**1325**	**1.7**	**2106**	**0.001959**		-0.00087	3	no	0.726	-		
	PeCB 328	20.62	780	yes					3					
80 PCB 117/116/85	**326**	**21.17**	**830**	**1.67**	**1326**	**0.001126**		-0.00079	4	yes	0.796	-		
	PeCB 328	21.23	496	yes					4					
81 PCB 110/115	**326**	**21.32**	**2297**	**1.6**	**3729**	**0.003362**		-0.00084	10	yes	0.75	-		
	PeCB 328	21.32	1432	yes					10					
82 PCB 82	326	NotFnd	*	*	*	-0.00112		-0.00112	*	no	0.564	-		
	PeCB 328	21.59	*	no					*					
83 PCB 111	326	NotFnd	*	*	*	-0.00078		-0.00078	*	no	0.809	-		
	PeCB 328	21.85	*	no					*					
84 PCB 120	326	NotFnd	*	*	*	-0.00066		-0.00066	*	no	0.951	-		
	PeCB 328	22.24	*	no					*					
85 PCB 108/124	326	NotFnd	*	*	*	-0.00054		-0.00054	*	no	1.122	-		
	PeCB 328	23.21	*	no					*					
86 PCB 107	**326**	**23.40**	**1059**	**1.77**	**1657**	**0.000976**		-0.00053	5	yes	1.147	-		
	PeCB 328	23.40	597	yes					4					
87 PCB 123	326	NotFnd	*	*	*	-0.00068		-0.00068	*	no	0.894	-		
	PeCB 328	23.51	*	no					*					
88 PCB 106	326	NotFnd	*	*	*	-0.0005		-0.0005	*	no	1.218	-		
	PeCB 328	23.63	*	no					*					
89 PCB 118	**326**	**23.79**	**7131**	**1.54**	**11748**	**0.007065**		-0.00062	35	no	0.981	-		
	PeCB 328	23.80	4617	yes					35					

90 PCB 122	326	NotFnd	*	*	*	-0.00056		-0.00056	*	no	1.079	-	
	PeCB 328	24.08	*	no					*				
91 PCB 114	326	NotFnd	*	*	*	-0.0006		-0.0006	*	no	1.01	-	
	PeCB 328	24.28	*	no					*				
92 PCB 105	**326**	**24.83**	**2240**	**1.61**	**3629**	**0.002272**		-0.00062	10	no	0.977	-	
	PeCB 328	24.83	1389	yes					9				
93 PCB 127	326	NotFnd	*	*	*	-0.00049		-0.00049	*	no	1.23	-	
	PeCB 328	26.20	*	no					*				
94 PCB 126	326	NotFnd	*	*	*	-0.00062		-0.00062	*	no	0.977	-	
	PeCB 328	27.72	*	no					*				
95 PCB 155	360	NotFnd	*	*	*	-0.00142		-0.00142	*	no	0.997	-	
	HxCB 362	19.63	*	no					*				
96 PCB 152	360	NotFnd	*	*	*	-0.00174		-0.00174	*	no	0.813	-	
	HxCB 362	19.78	*	no					*				
97 PCB 150	360	NotFnd	*	*	*	-0.00218		-0.00218	*	no	0.65	-	
	HxCB 362	19.88	*	no					*				
98 PCB 136	360	NotFnd	*	*	*	-0.00186		-0.00186	*	no	0.761	-	
	HxCB 362	20.17	*	no					*				
99 PCB 145	360	NotFnd	*	*	*	-0.00214		-0.00214	*	no	0.662	-	
	HxCB 362	20.41	*	no					*				
100 PCB 148	360	NotFnd	*	*	*	-0.00257		-0.00257	*	no	0.551	-	
	HxCB 362	21.55	*	no					*				
101 PCB 151/135	360	NotFnd	*	*	*	-0.00273		-0.00273	*	no	0.519	-	
	HxCB 362	22.04	*	no					*				
102 PCB 154	360	NotFnd	*	*	*	-0.00229		-0.00229	*	no	0.618	-	
	HxCB 362	22.21	*	no					*				
103 PCB 144	360	NotFnd	*	*	*	-0.00252		-0.00252	*	no	0.562	-	
	HxCB 362	22.51	*	no					*				
104 PCB 147/149	**360**	**22.79**	**1274**	**1.16**	**2367**	**0.002625**		-0.00116	8	yes	0.662	-	
	HxCB 362	22.80	1093	yes					7				
105 PCB 134/143	360	NotFnd	*	*	*	-0.00131		-0.00131	*	no	0.586	-	
	HxCB 362	23.06	*	no					*				
106 PCB 139/140	360	NotFnd	*	*	*	-0.00113		-0.00113	*	no	0.68	-	
	HxCB 362	23.31	*	no					*				
107 PCB 131	360	NotFnd	*	*	*	-0.00143		-0.00143	*	no	0.537	-	
	HxCB 362	23.49	*	no					*				
108 PCB 142	360	NotFnd	*	*	*	-0.00123		-0.00123	*	no	0.626	-	
	HxCB 362	23.65	*	no					*				
109 PCB 132	360	NotFnd	*	*	*	-0.00137		-0.00137	*	no	0.561	-	
	HxCB 362	23.88	*	no					*				
110 PCB 133	360	NotFnd	*	*	*	-0.00117		-0.00117	*	no	0.657	-	
	HxCB 362	24.31	*	no					*				
111 PCB 165	360	NotFnd	*	*	*	-0.00101		-0.00101	*	no	0.765	-	
	HxCB 362	24.66	*	no					*				
112 PCB 146	**360**	**24.88**	**1605**	**1.18**	**2965**	**0.00309**		-0.00109	9	no	0.705	-	
	HxCB 362	24.86	1360	yes					9				
113 PCB 161	360	NotFnd	*	*	*	-0.00079		-0.00079	*	no	0.97	-	
	HxCB 362	25.01	*	no					*				
114 PCB 153/168	360	25.43	-6818.76	1.24	-12317.8	-0.0102	PCB 153/168 NDR	-0.0009	45	xL	0.852	-	
	HxCB 362	25.45	-5499	OK					37				
115 PCB 141	360	NotFnd	*	*	*	-0.00113		-0.00113	*	no	0.681	-	
	HxCB 362	25.60	*	no					*				
116 PCB 130	360	NotFnd	*	*	*	-0.00125		-0.00125	*	no	0.617	-	
	HxCB 362	25.99	*	no					*				
117 PCB 137	360	NotFnd	*	*	*	-0.00127		-0.00127	*	no	0.607	-	
	HxCB 362	26.19	*	no					*				
118 PCB 164	360	NotFnd	*	*	*	-0.00084		-0.00084	*	no	0.913	-	
	HxCB 362	26.28	*	no					*				
119 PCB 138/163/129	**360**	**26.59**	**6084**	**1.28**	**10819**	**0.011281**		-0.00109	28	no	0.705	-	
	HxCB 362	26.60	4735	yes					27				
120 PCB 160	360	NotFnd	*	*	*	-0.00094		-0.00094	*	no	0.822	-	
	HxCB 362	26.78	*	no					*				
121 PCB 158	360	NotFnd	*	*	*	-0.00077		-0.00077	*	no	1.004	-	
	HxCB 362	26.96	*	no					*				
122 PCB 128/166	360	NotFnd	*	*	*	-0.00099		-0.00099	*	no	0.774	-	
	HxCB 362	27.78	*	no					*				
123 PCB 159	360	NotFnd	*	*	*	-0.00041		-0.00041	*	no	1.179	-	
	HxCB 362	28.76	*	no					*				
124 PCB 162	360	NotFnd	*	*	*	-0.00044		-0.00044	*	no	1.101	-	
	HxCB 362	29.05	*	no					*				
125 PCB 167	360	29.53	-513.36	1.24	-927.36	-0.00056	PCB 167 NDR	-0.00051	4	xL	0.946	-	
	HxCB 362	29.52	-414	OK					3				
126 PCB 156/157	**360**	**30.68**	**1148**	**1.21**	**2098**	**0.001251**		-0.00048	7	yes	1.017	-	
	HxCB 362	30.71	950	yes					6				
127 PCB 169	360	NotFnd	*	*	*	-0.00051		-0.00051	*	no	0.954	-	
	HxCB 362	34.11	*	no					*				
128 PCB 188	394	NotFnd	*	*	*	-0.00111		-0.00111	*	no	1.012	-	
	HpCB 396	24.23	*	no					*				
129 PCB 179	394	NotFnd	*	*	*	-0.00107		-0.00107	*	no	1.047	-	
	HpCB 396	24.52	*	no					*				
130 PCB 184	394	NotFnd	*	*	*	-0.00117		-0.00117	*	no	0.961	-	
	HpCB 396	25.00	*	no					*				
131 PCB 176	394	NotFnd	*	*	*	-0.00109		-0.00109	*	no	1.027	-	
	HpCB 396	25.31	*	no					*				
132 PCB 186	394	NotFnd	*	*	*	-0.00125		-0.00125	*	no	0.899	-	
	HpCB 396	25.75	*	no					*				
133 PCB 178	394	NotFnd	*	*	*	-0.00156		-0.00156	*	no	0.722	-	
	HpCB 396	27.01	*	no					*				
134 PCB 175	394	NotFnd	*	*	*	-0.00149		-0.00149	*	no	0.753	-	
	HpCB 396	27.61	*	no					*				
135 PCB 187	**394**	**27.87**	**1791**	**1.17**	**3319**	**0.004103**		-0.00155	8	yes	0.723	-	
	HpCB 396	27.88	1528	yes					7				
136 PCB 182	394	NotFnd	*	*	*	-0.0015		-0.0015	*	no	0.747	-	
	HpCB 396	28.10	*	no					*				

137 PCB 183		394	NotFnd	*	*	*	-0.00105	-0.00105	*	no	1.162	-
	HpCB	396	28.50	*	no				*			
138 PCB 185		394	NotFnd	*	*	*	-0.00144	-0.00144	*	no	0.851	-
	HpCB	396	28.56	*	no				*			
139 PCB 174		394	NotFnd	*	*	*	-0.00126	-0.00126	*	no	0.97	-
	HpCB	396	28.72	*	no				*			
140 PCB 177		394	NotFnd	*	*	*	-0.0013	-0.0013	*	no	0.943	-
	HpCB	396	29.14	*	no				*			
141 PCB 181		394	NotFnd	*	*	*	-0.00137	-0.00137	*	no	0.892	-
	HpCB	396	29.56	*	no				*			
142 PCB 171/173		394	NotFnd	*	*	*	-0.00129	-0.00129	*	no	0.948	-
	HpCB	396	29.78	*	no				*			
143 PCB 172		394	NotFnd	*	*	*	-0.00129	-0.00129	*	no	0.95	-
	HpCB	396	31.42	*	no				*			
144 PCB 192		394	NotFnd	*	*	*	-0.00113	-0.00113	*	no	1.085	-
	HpCB	396	31.74	*	no				*			
145 PCB 193/180		**394**	**32.11**	**2299**	**0.99**	**4622**	**0.003653**	-0.00088	9	no	1.383	-
	HpCB	396	32.06	2323	yes				9			
146 PCB 191		394	NotFnd	*	*	*	-0.0009	-0.0009	*	no	1.352	-
	HpCB	396	32.48	*	no				*			
147 PCB 170		394	NotFnd	*	*	*	-0.00096	-0.00096	*	no	1.271	-
	HpCB	396	33.45	*	no				*			
148 PCB 190		394	NotFnd	*	*	*	-0.00091	-0.00091	*	no	1.345	-
	HpCB	396	34.02	*	no				*			
149 PCB 189		394	NotFnd	*	*	*	-0.00048	-0.00048	*	no	0.944	-
	HpCB	396	36.88	*	no				*			
150 PCB 202		428	NotFnd	*	*	*	-0.00167	-0.00167	*	no	0.988	-
	OcCB	430	29.27	*	no				*			
151 PCB 201		428	NotFnd	*	*	*	-0.00165	-0.00165	*	no	0.997	-
	OcCB	430	30.18	*	no				*			
152 PCB 204		428	NotFnd	*	*	*	-0.00171	-0.00171	*	no	0.962	-
	OcCB	430	30.88	*	no				*			
153 PCB 197		428	NotFnd	*	*	*	-0.00188	-0.00188	*	no	0.876	-
	OcCB	430	31.12	*	no				*			
154 PCB 200		428	NotFnd	*	*	*	-0.00164	-0.00164	*	no	1.006	-
	OcCB	430	31.24	*	no				*			
155 PCB 198/199		428	NotFnd	*	*	*	-0.00252	-0.00252	*	no	0.654	-
	OcCB	430	34.19	*	no				*			
156 PCB 196		428	NotFnd	*	*	*	-0.00244	-0.00244	*	no	0.674	-
	OcCB	430	34.92	*	no				*			
157 PCB 203		428	NotFnd	*	*	*	-0.0025	-0.0025	*	no	0.659	-
	OcCB	430	35.12	*	no				*			
158 PCB 195		428	NotFnd	*	*	*	-0.00153	-0.00153	*	no	1.005	-
	OcCB	430	36.59	*	no				*			
159 PCB 194		428	NotFnd	*	*	*	-0.00141	-0.00141	*	no	1.091	-
	OcCB	430	39.21	*	no				*			
160 PCB 205		428	NotFnd	*	*	*	-0.00141	-0.00141	*	no	1.091	-
	OcCB	430	39.77	*	no				*			
161 PCB 208		462	NotFnd	*	*	*	-0.00142	-0.00142	*	no	1.023	-
	NoCB	464	36.33	*	no				*			
162 PCB 207		462	NotFnd	*	*	*	-0.0011	-0.0011	*	no	1.32	-
	NoCB	464	37.34	*	no				*			
163 PCB 206		462	NotFnd	*	*	*	-0.00141	-0.00141	*	no	1.027	-
	NoCB	464	41.70	*	no				*			
164 PCB 209		**498**	**43.56**	**19576**	**1.23**	**35507**	**0.058068**	-0.00038	375	no	1.04	-
	DCB	500	43.54	15931	yes				363			
165 PCB 1L		**200**	**8.98**	**178080**	**3.56**	**228160**	**0.121609**	0	4365	no	0.824	62
		202	8.97	50080	yes				317			
166 PCB 3L		**200**	**10.17**	**167307**	**3.49**	**215197**	**0.110855**	0	4215	no	0.852	57
		202	10.16	47890	yes				310			
167 PCB 4L		**234**	**10.28**	**66621**	**1.61**	**107954**	**0.087353**	0	4001	no	0.543	45
		236	10.28	41333	yes				4660			
168 PCB 15L		**234**	**12.93**	**226623**	**1.61**	**367121**	**0.150041**	0	2193	no	1.074	77
		236	12.91	140498	yes				3102			
169 PCB 19L		**268**	**11.68**	**69481**	**1.09**	**133357**	**0.101263**	0.001	310	no	0.578	52
		270	11.65	63875	yes				471			
170 PCB 37L		**268**	**16.68**	**205152**	**1.04**	**402689**	**0.19277**	0.001	654	no	1.987	99
		270	16.67	197537	yes				819			
171 PCB 54L		**302**	**13.06**	**65427**	**0.81**	**146518**	**0.107403**	0	1319	no	1.297	55
		304	13.06	81091	yes				3005			
172 PCB 81L		**302**	**21.41**	**154578**	**0.81**	**345683**	**0.18916**	0	1092	no	1.738	97
		304	21.39	191104	yes				1766			
173 PCB 77L		**302**	**21.85**	**148227**	**0.81**	**332448**	**0.188514**	0	1011	no	1.677	97
		304	21.82	184221	yes				1664			
174 PCB 104L		**338**	**15.92**	**96523**	**1.67**	**154318**	**0.144089**	0	4029	no	1.156	74
		340	15.93	57796	yes				3896			
175 PCB 123L		**338**	**23.49**	**206059**	**1.61**	**333905**	**0.18612**	0	2311	no	1.936	96
		340	23.50	127846	yes				3142			
176 PCB 118L		**338**	**23.77**	**202836**	**1.6**	**329870**	**0.186771**	0	2257	no	1.906	96
		340	23.76	127034	yes				3221			
177 PCB 114L		**338**	**24.25**	**188980**	**1.64**	**303954**	**0.185005**	0	2062	no	1.773	95
		340	24.25	114974	yes				2784			
178 PCB 105L		**338**	**24.81**	**194896**	**1.58**	**318436**	**0.188547**	0	2080	no	1.822	97
		340	24.81	123540	yes				2943			
179 PCB 126L		**338**	**27.69**	**187490**	**1.65**	**300818**	**0.187037**	0	1880	no	1.735	96
		340	27.67	113328	yes				2532			
180 PCB 155L		**372**	**19.61**	**95797**	**1.28**	**170399**	**0.131391**	0	12215	no	1.404	67
		374	19.61	74601	yes				9418			
181 PCB 167L		**372**	**29.50**	**190184**	**1.28**	**338644**	**0.173704**	0	2909	no	2.11	89
		374	29.49	148460	yes				2132			
182 PCB 156L/157L		**372**	**30.68**	**360159**	**1.28**	**642079**	**0.361743**	0	4469	no	1.921	93
		374	30.69	281920	yes				3277			
183 PCB 169L		**372**	**34.08**	**129622**	**1.29**	**230058**	**0.131994**	0	1831	no	1.886	68
		374	34.06	100437	yes				1310			

184 PCB 188L	**406**	**24.20**	**94103**	**1.1**	**179809**	**0.146379**	0	2943	no	1.329	75
	408	24.21	85706	yes				3967			
185 PCB 180L	**406**	**32.09**	**92702**	**1.09**	**178177**	**0.145182**	0	3665	no	1.349	75
	408	32.09	85474	yes				1545			
186 PCB 170L	**406**	**33.42**	**82257**	**1.07**	**159479**	**0.148493**	0	3196	no	1.18	76
	408	33.42	77223	yes				1353			
187 PCB 189L	**406**	**36.84**	**181937**	**1.06**	**353614**	**0.180117**	0	4461	no	2.157	93
	408	36.83	171678	yes				3635			
188 PCB 202L	**440**	**29.25**	**79144**	**0.92**	**165376**	**0.128022**	0	4017	no	1.419	66
	442	29.27	86232	yes				2642			
189 PCB 205L	**440**	**39.73**	**115053**	**0.92**	**240112**	**0.172299**	0	1958	no	1.531	88
	442	39.73	125058	yes				3178			
190 PCB 208L	**474**	**36.29**	**67131**	**0.78**	**153240**	**0.147781**	0	2204	no	1.139	76
	476	36.28	86109	yes				3903			
191 PCB 206L	**474**	**41.70**	**49481**	**0.76**	**114593**	**0.16578**	0	1535	no	0.76	85
	476	41.73	65112	yes				2879			
192 PCB 209L	**510**	**43.54**	**62890**	**1.22**	**114498**	**0.173699**	0	3428	no	0.724	89
	512	43.53	51607	yes				3965			
193 PCB 28L	**268**	**14.41**	**235953**	**1.06**	**459457**	**0.214256**	0.001	846	no	2.039	110
PCB Cleanup Standard	270	14.41	223504	yes				1040			
194 PCB 111L	**338**	**21.83**	**145797**	**1.62**	**235824**	**0.18947**	0	3417	no	1.343	97
PCB Cleanup Standard	340	21.84	90027	yes				3757			
195 PCB 178L	**406**	**26.98**	**62268**	**1.07**	**120508**	**0.177941**	0	1868	no	0.733	91
PCB Cleanup Standard	408	26.97	58240	yes				2564			
196 PCB 31L	268	NotFnd	*	*	*		0.001		no	1.934	
PCB Audit Standard	270	14.24	*	no							
197 PCB 95L	338	NotFnd	*	*	*		0		no	0.946	
PCB Audit Standard	340	17.73	*	no							
198 PCB 153L	372	NotFnd	*	*	*		0		no	1.225	
PCB Audit Standard	374	25.40	*	no							
199 PCB 9L	**234**	**11.17**	**1365916**	**1.6**	**2217298**	**11.08019**	-	14339	no	-	-
PCB Recovery Standard	236	11.19	851382	yes				20734			
200 PCB 52L	**302**	**15.35**	**457406**	**0.81**	**1023762**	**7.907168**	-	8832	no	-	-
PCB Recovery Standard	304	15.36	566356	yes				14985			
201 PCB 101L	**338**	**19.77**	**557943**	**1.62**	**902250**	**8.008587**	-	13708	no	-	-
PCB Recovery Standard	340	19.76	344308	yes				15273			
202 PCB 138L	**372**	**26.57**	**508063**	**1.3**	**899602**	**8.14677**	-	13423	no	-	-
PCB Recovery Standard	374	26.56	391539	yes				15696			
203 PCB 194L	**440**	**39.18**	**427437**	**0.93**	**886006**	**7.989509**	-	7137	no	-	-
PCB Recovery Standard	442	39.17	458568	yes				11517			

Chlorobiphenyls	-0.00061	0 -0.00061
Dichlorobiphenyls	0.009181	1 -0.00303
Trichlorobiphenyls	0.01379	6 -0.00393
Tetrachlorobiphenyls	0.011613	4 -0.00251
Pentachlorobiphenyls	0.027372	8 -0.00118
Hexachlorobiphenyls	0.018247	4 -0.00273
Heptachlorobiphenyls	0.007756	2 -0.00156
Octachlorobiphenyls	-0.00252	0 -0.00252
Nonachlorobiphenyls	-0.00142	0 -0.00142
Decachlorobiphenyl	0.058068	1 -0.00038
PCB (total)	0.146027	

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Printed: February 20, 2016 09:27:56 AM Eastern Standard Time

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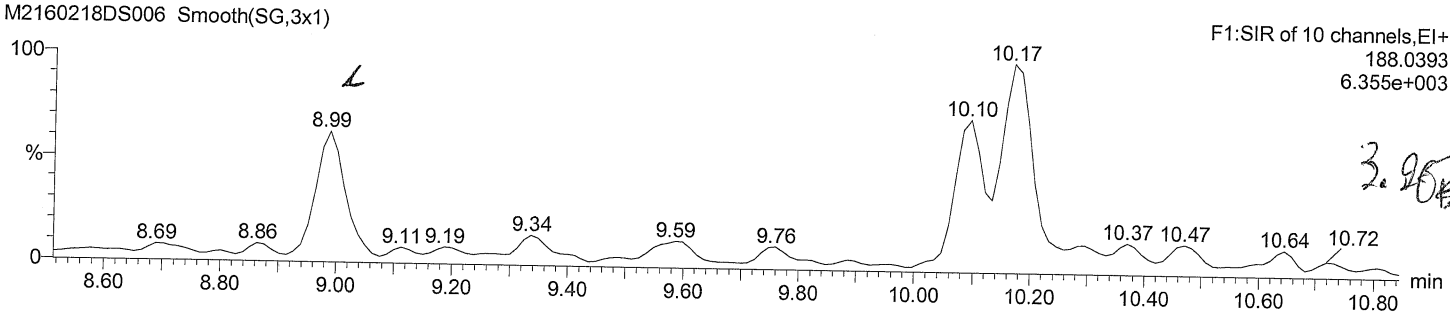

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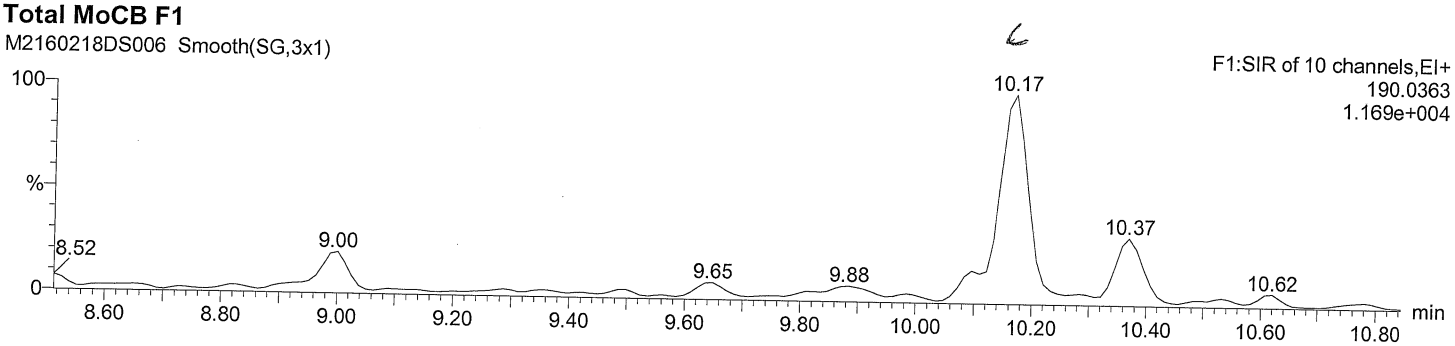

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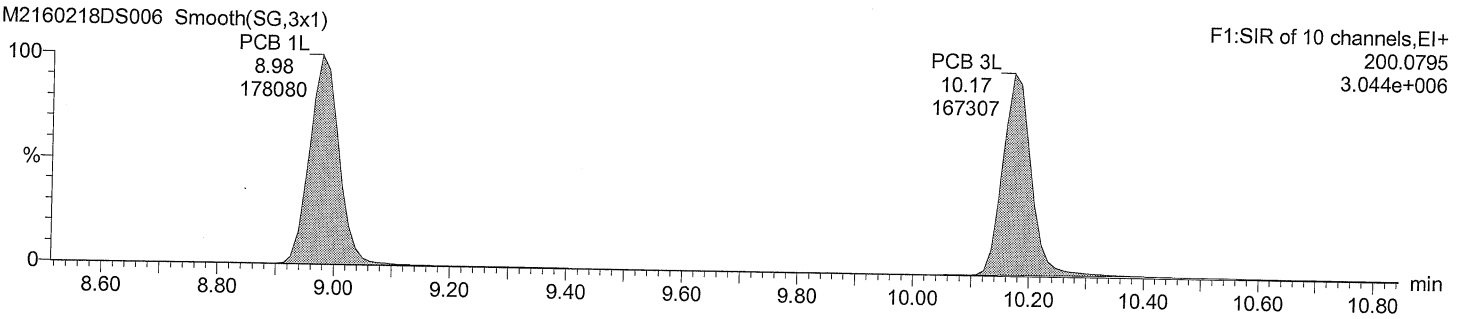

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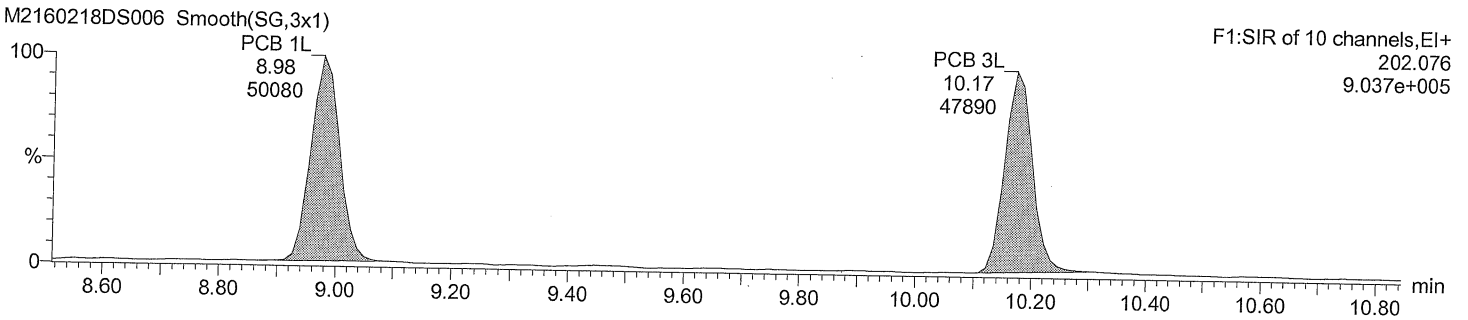

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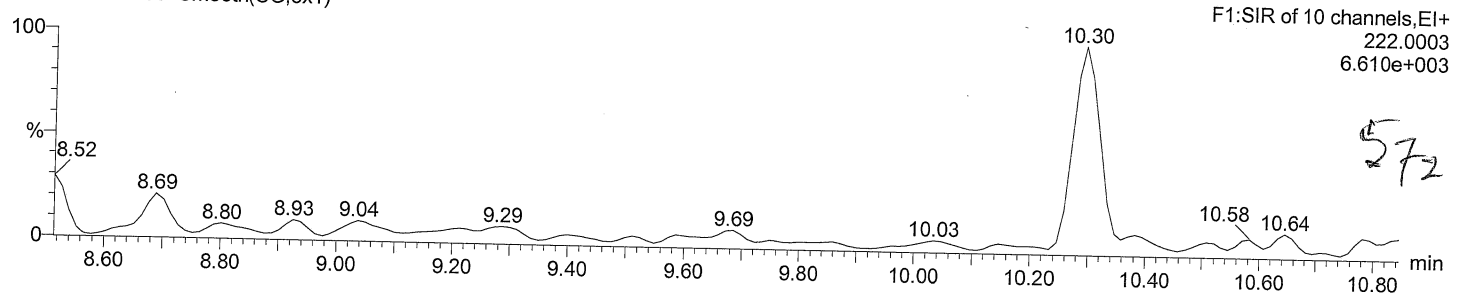

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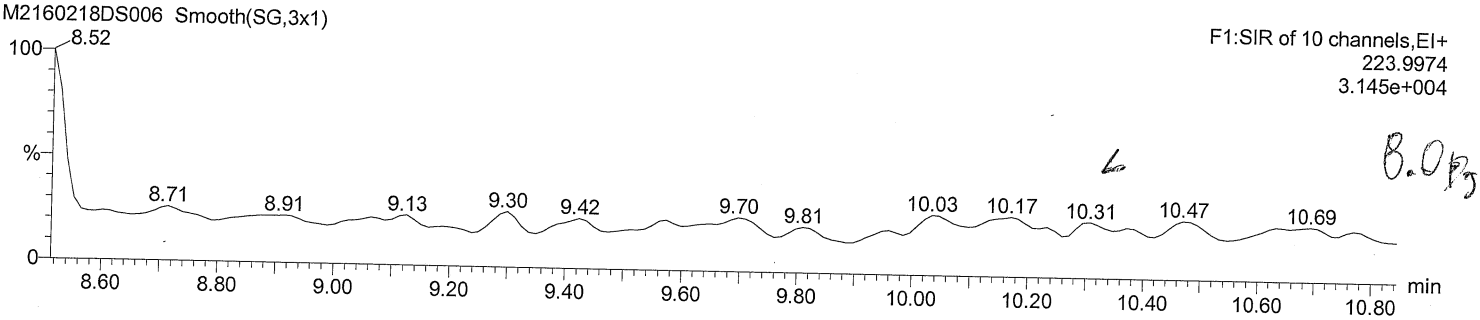

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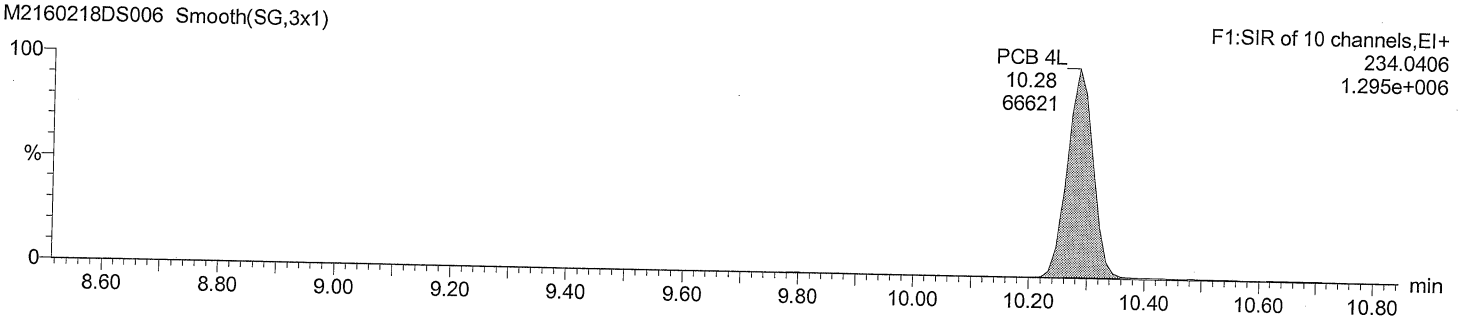

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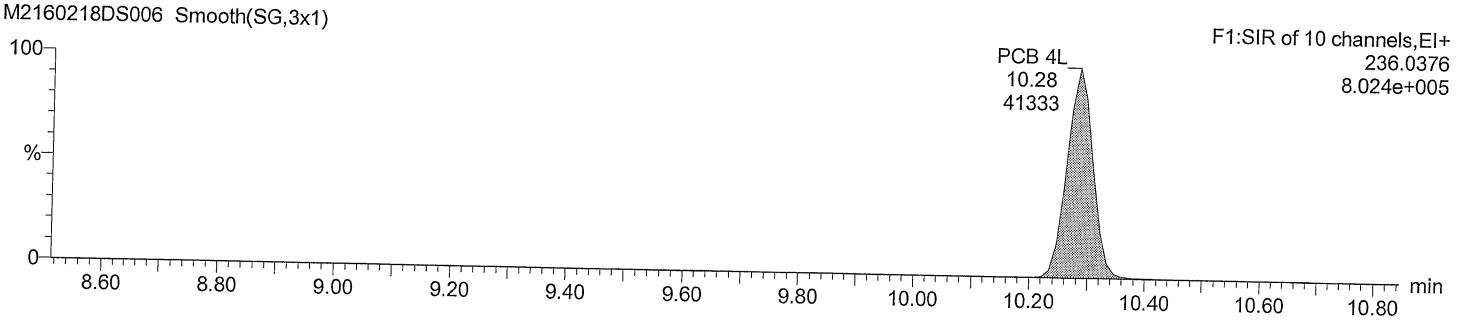

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Total DiCB F2
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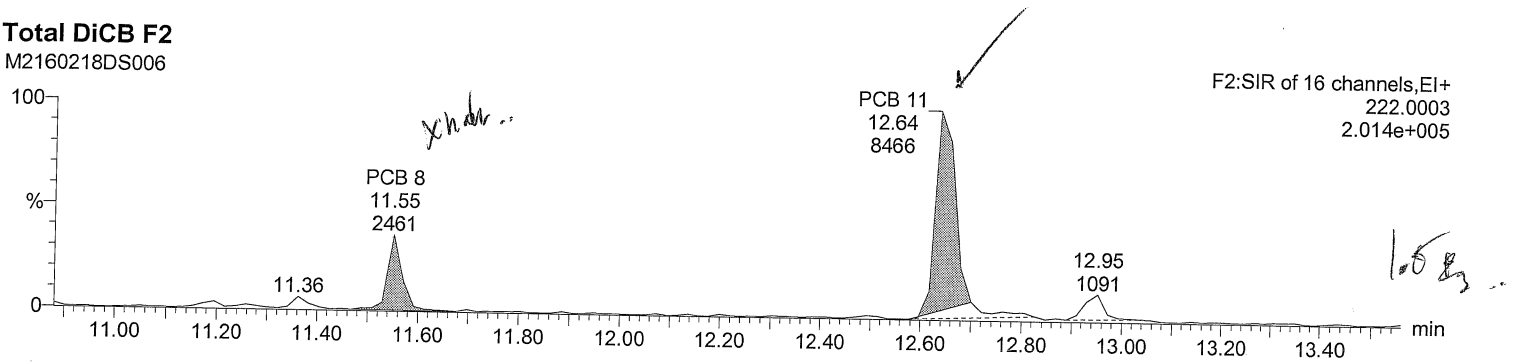

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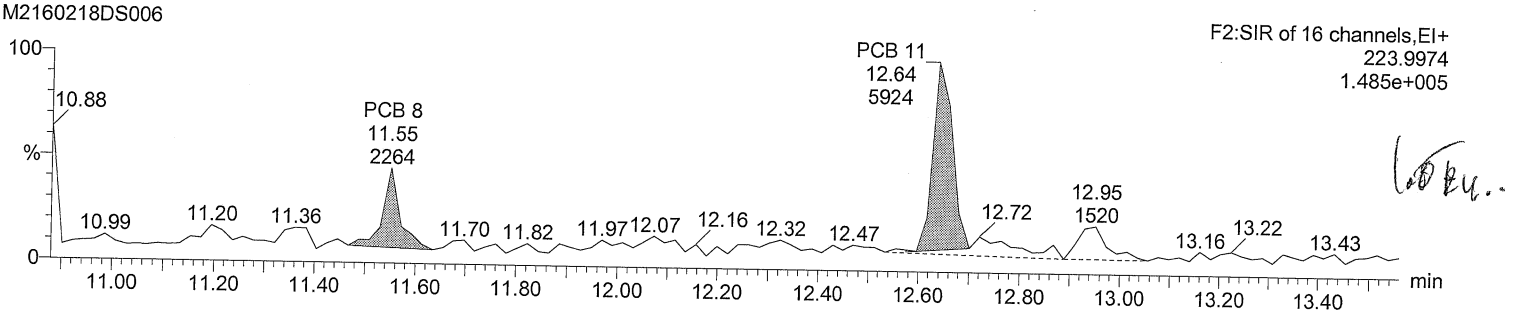

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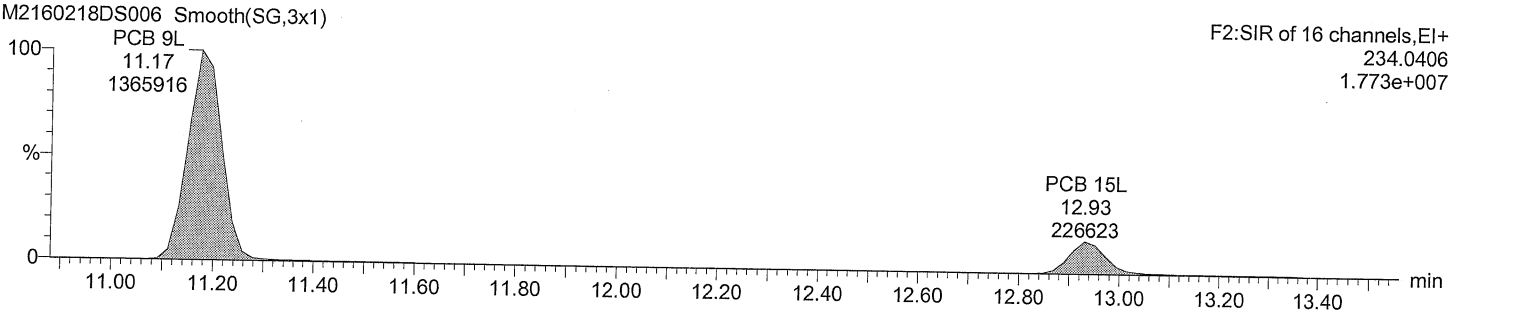

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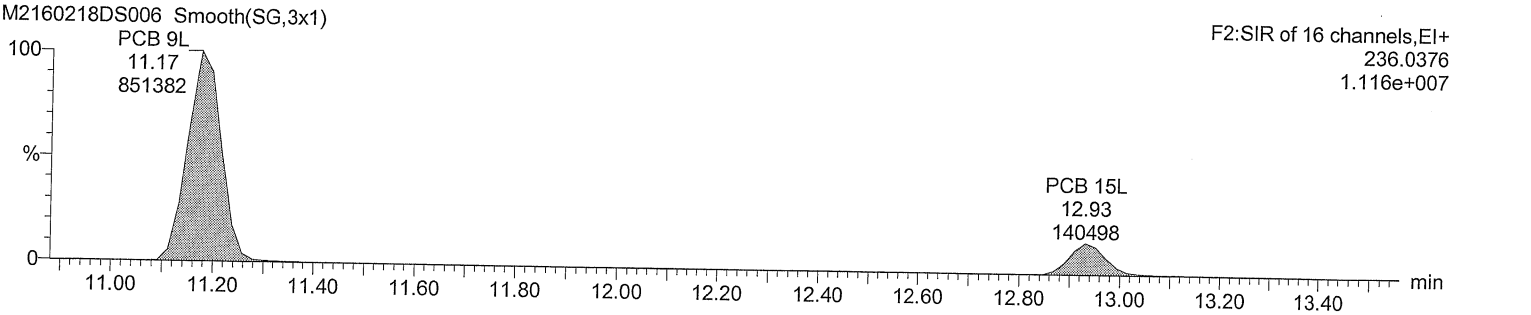

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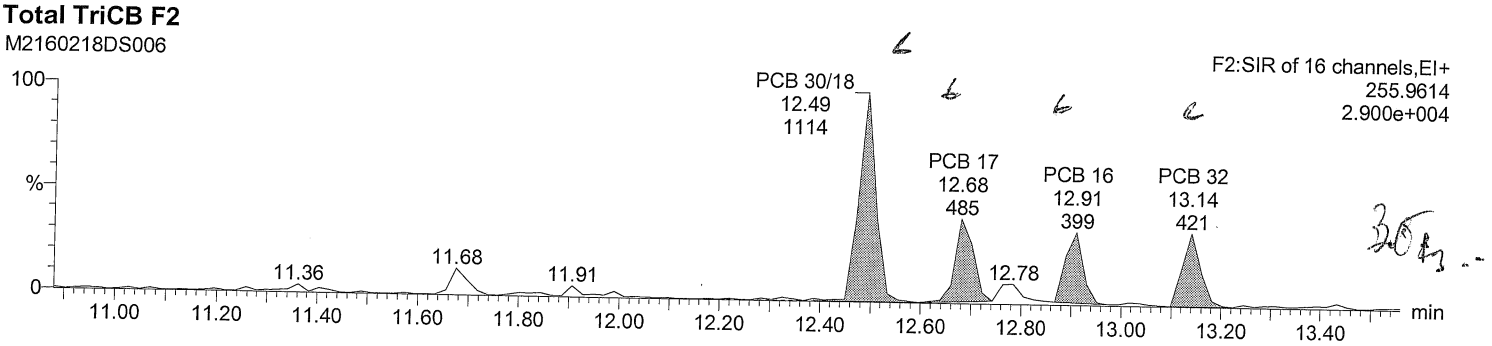

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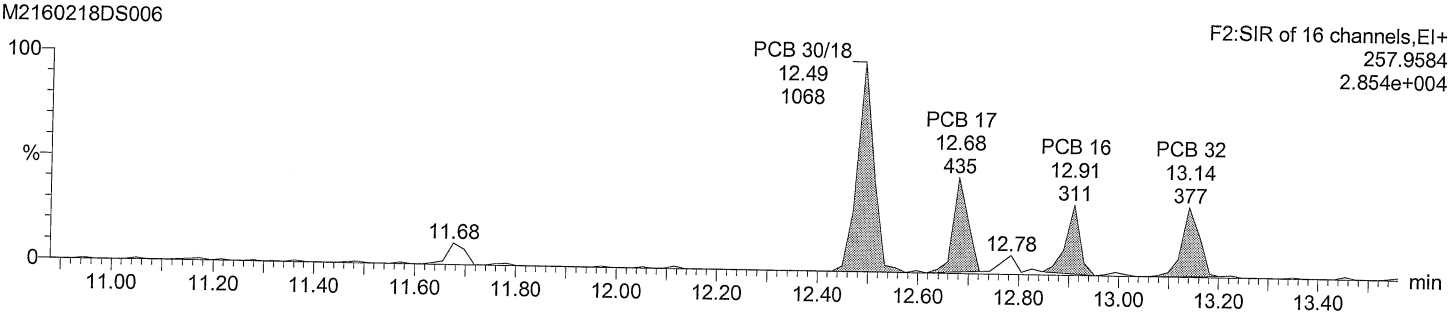

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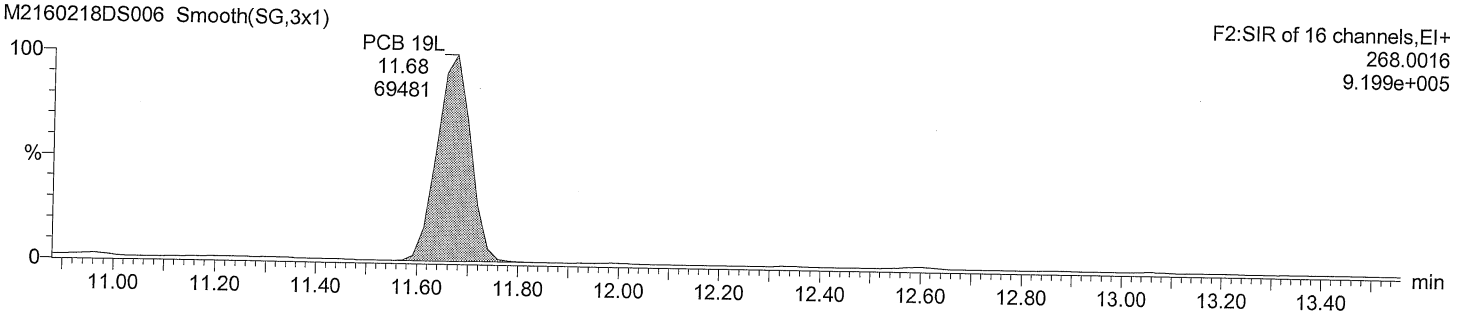

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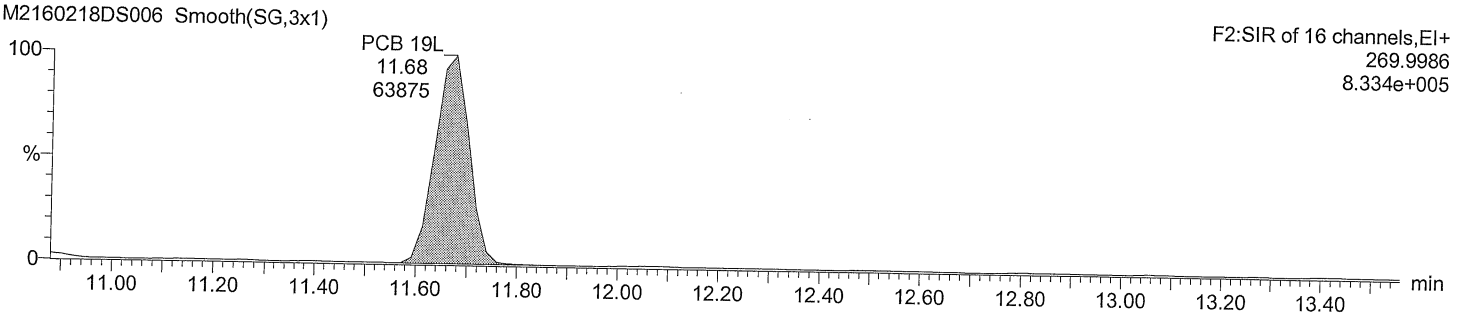

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Total TriCB F3
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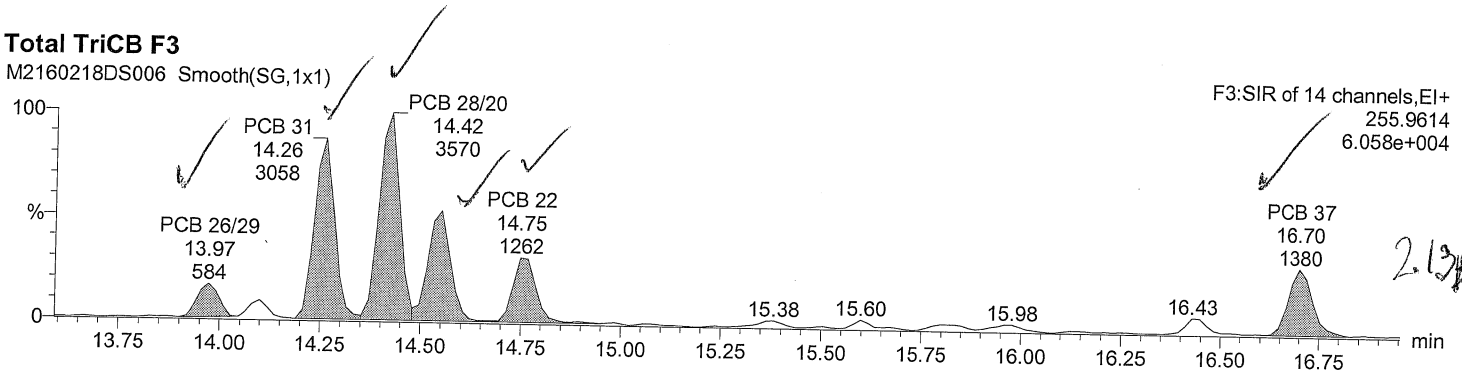

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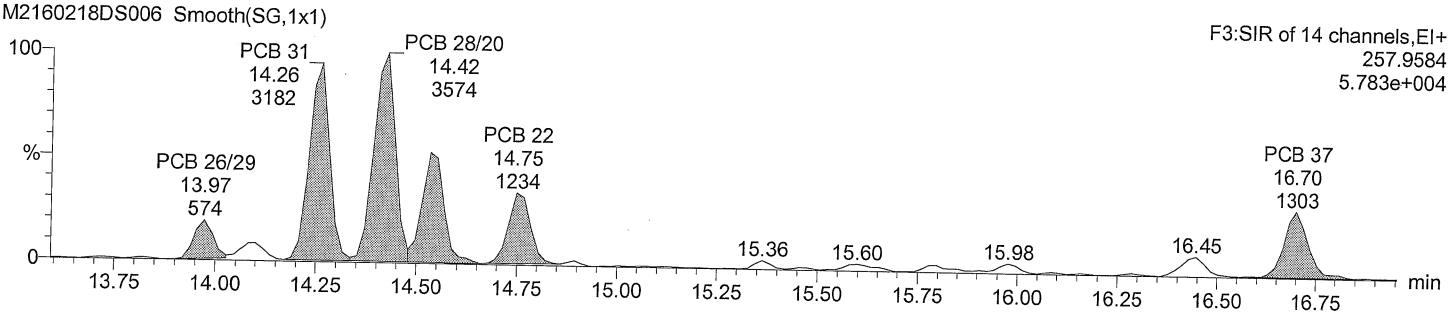

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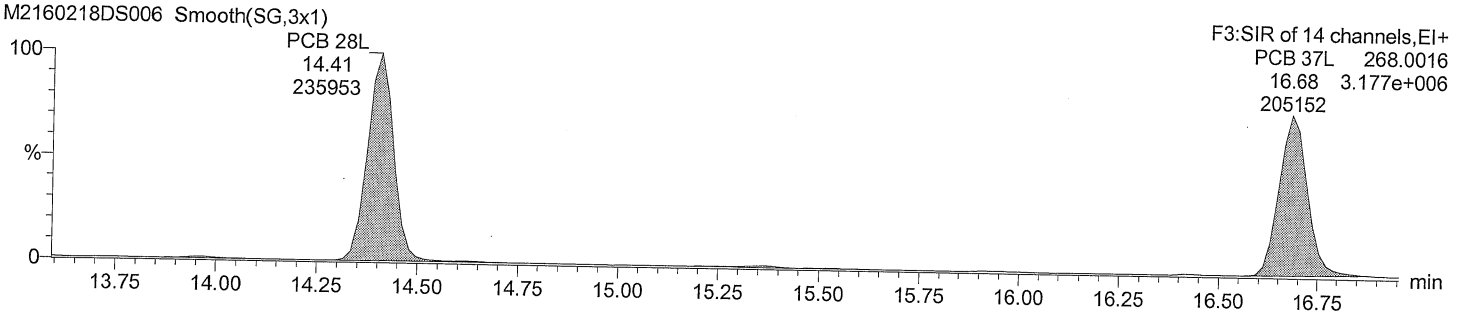

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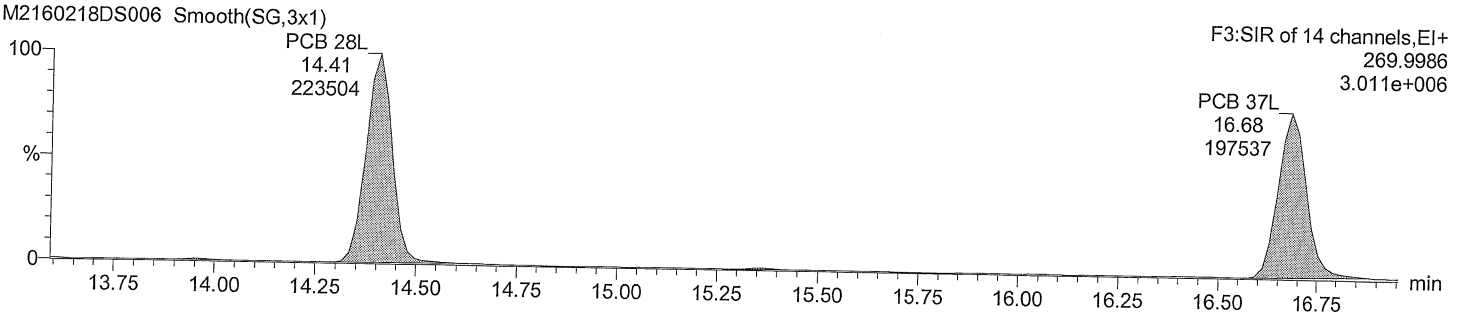

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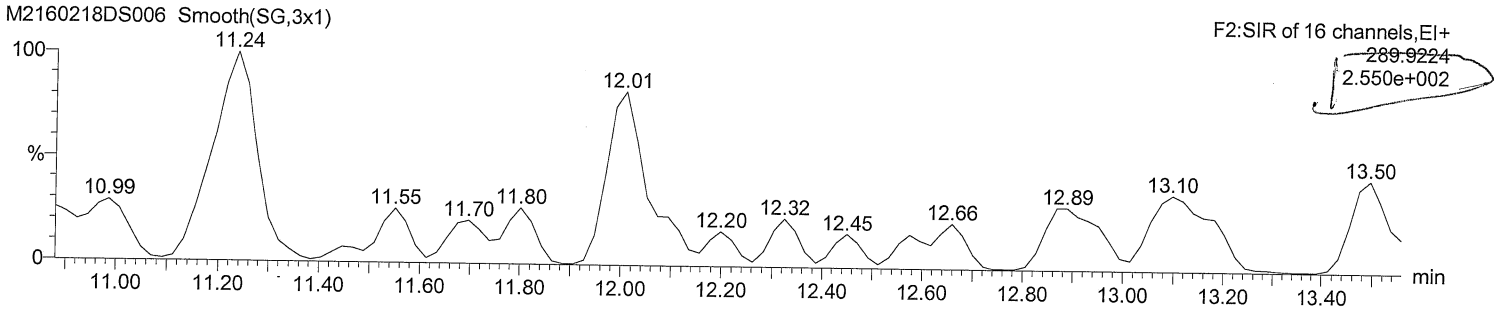
Total TeCB F2



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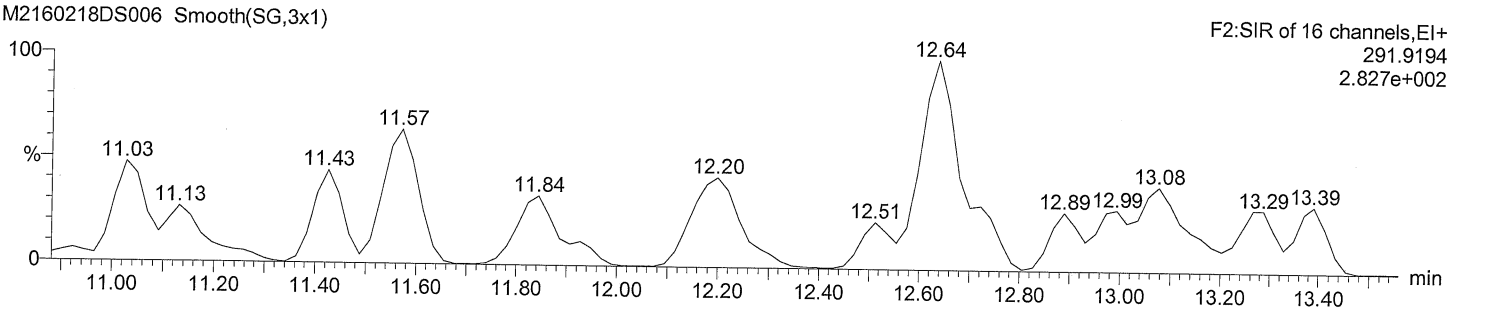

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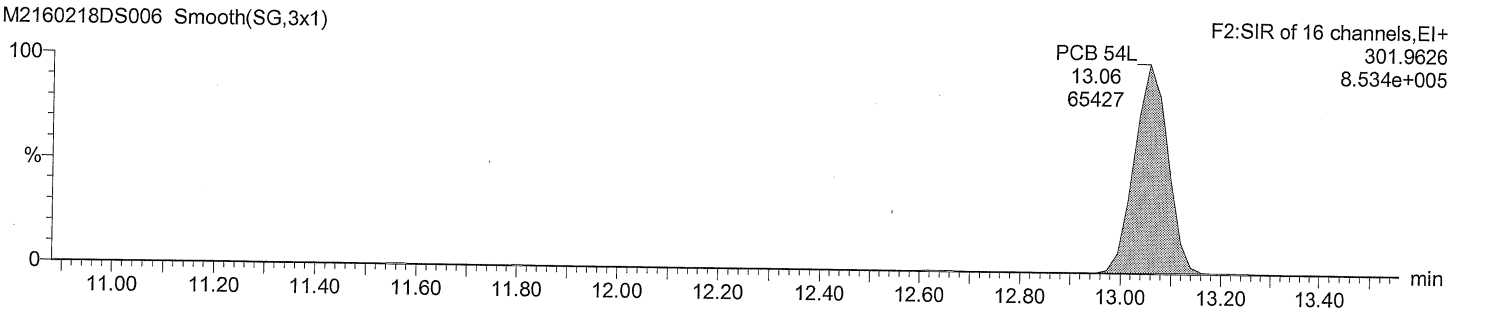

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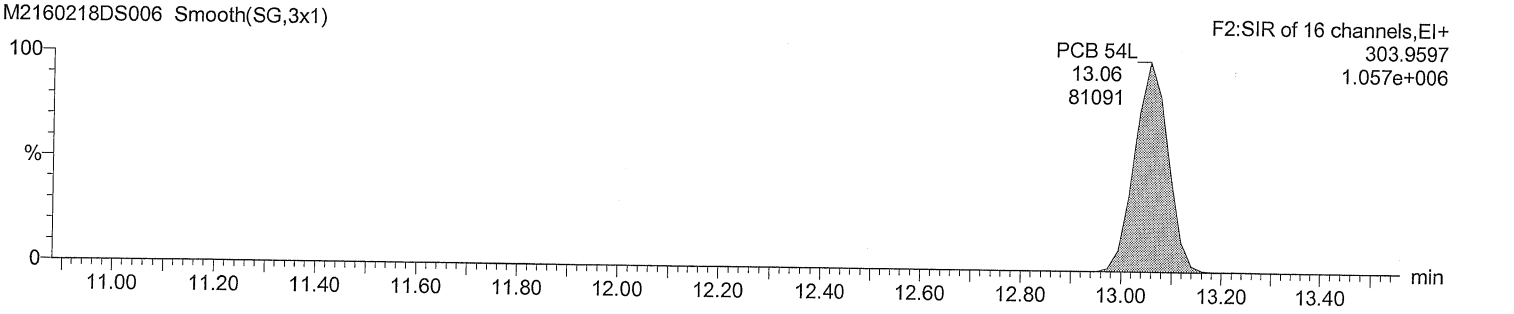

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Total TeCB F3
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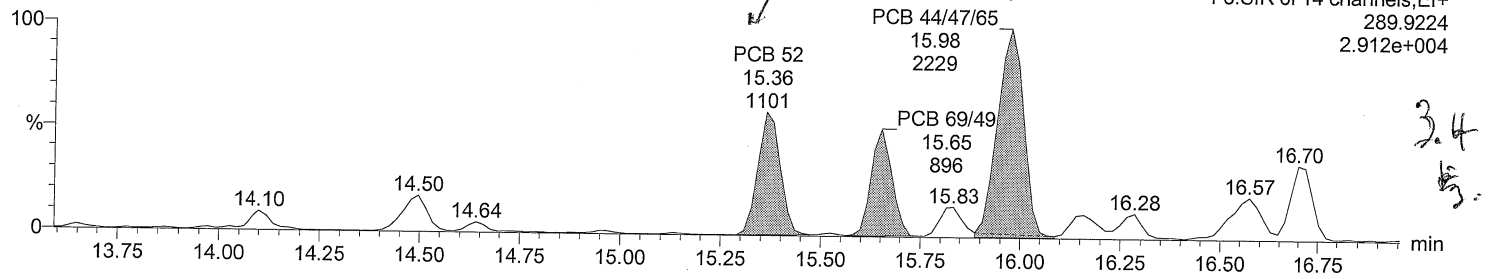

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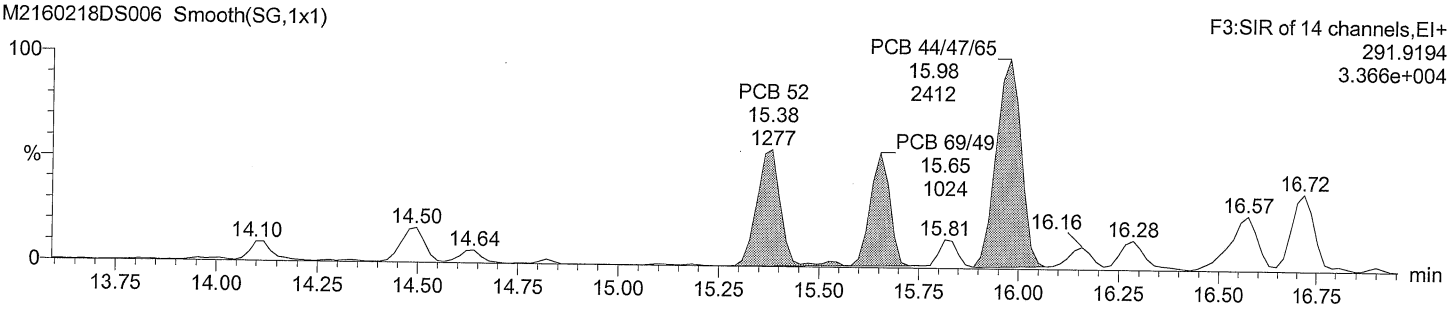

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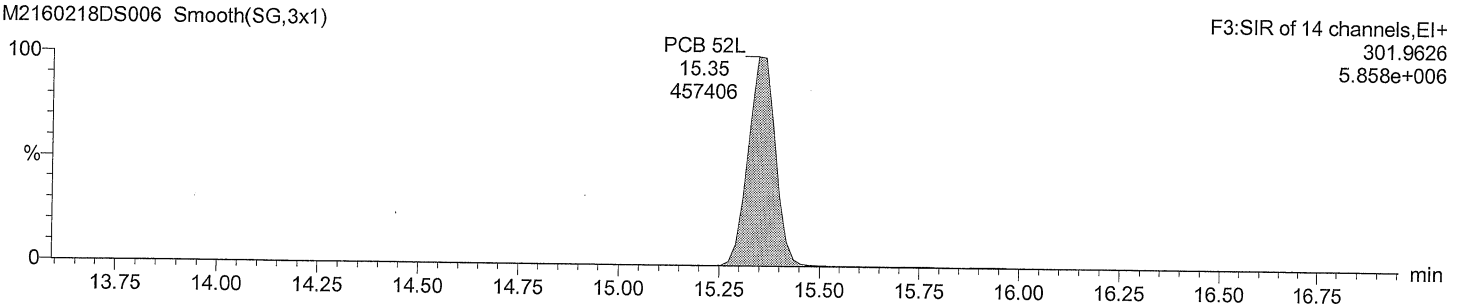

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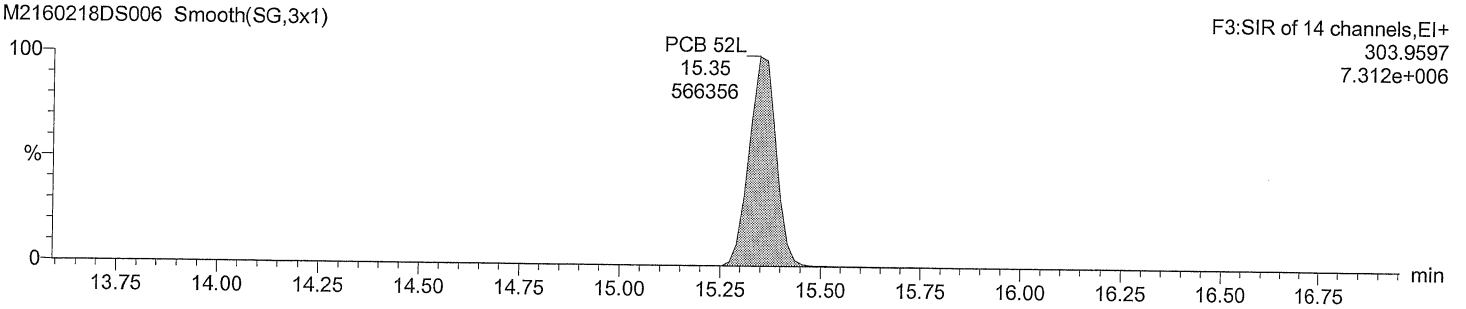

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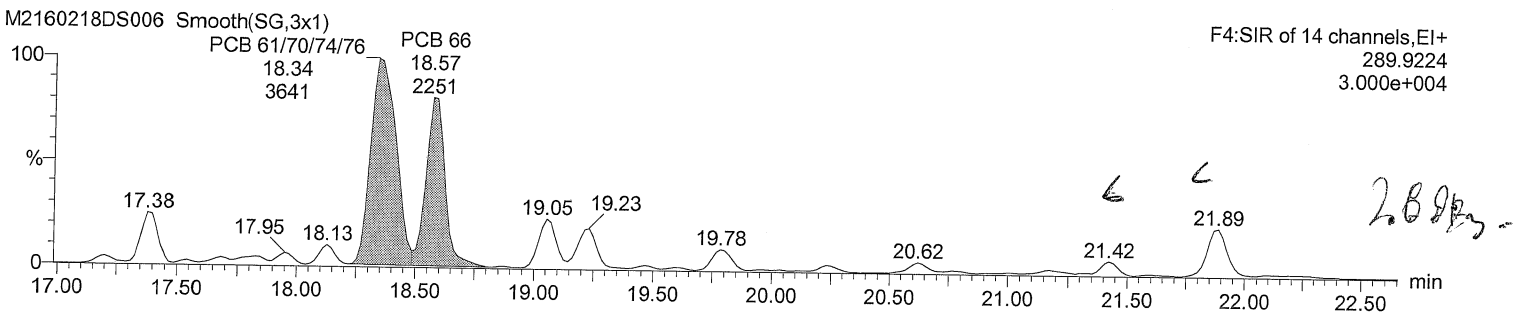
Total TeCB F4



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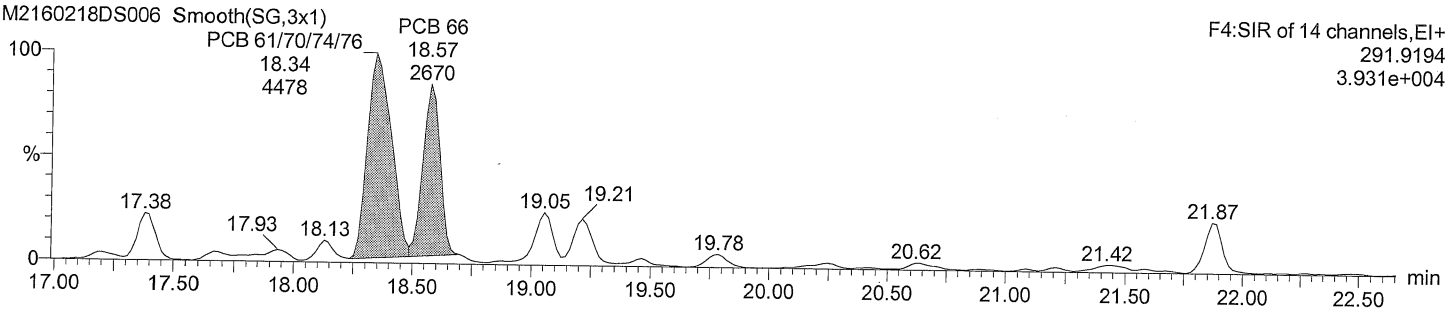

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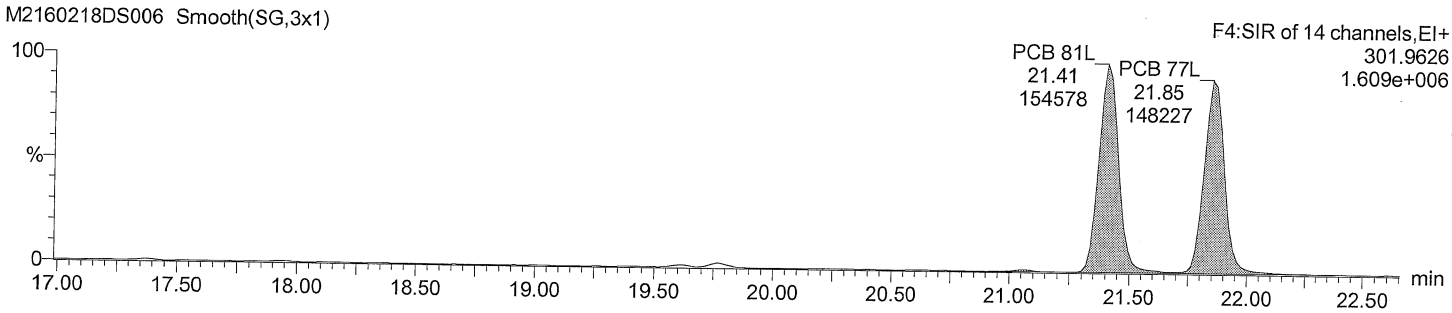

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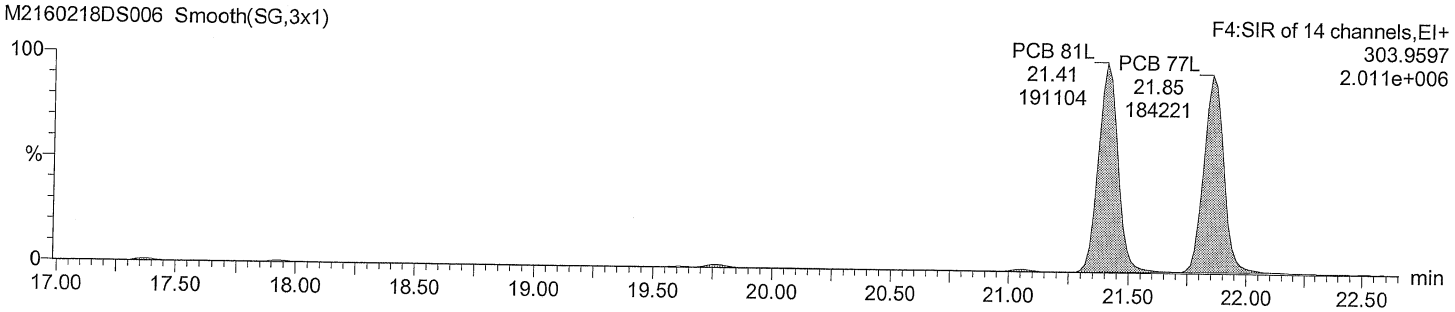

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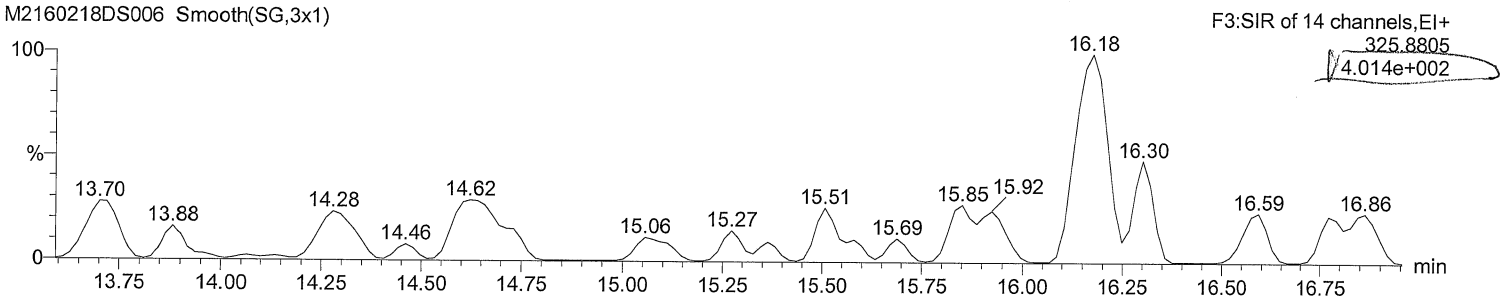
Total PeCB F3



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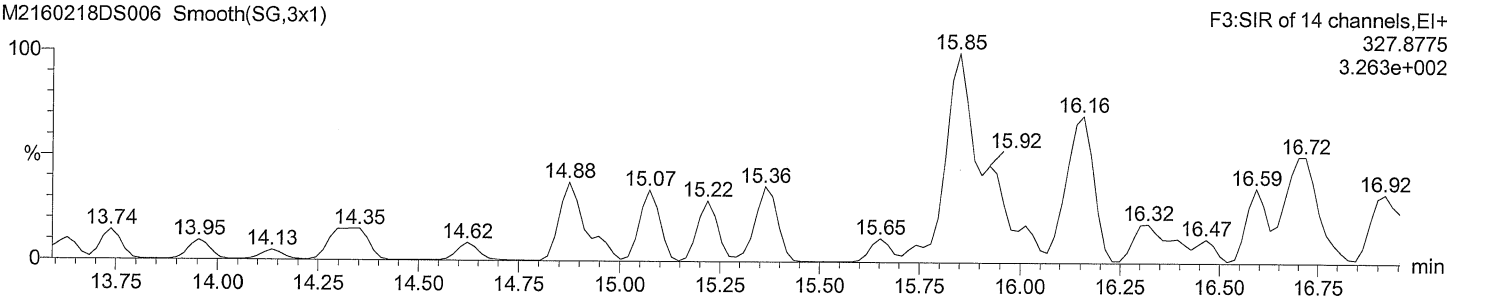

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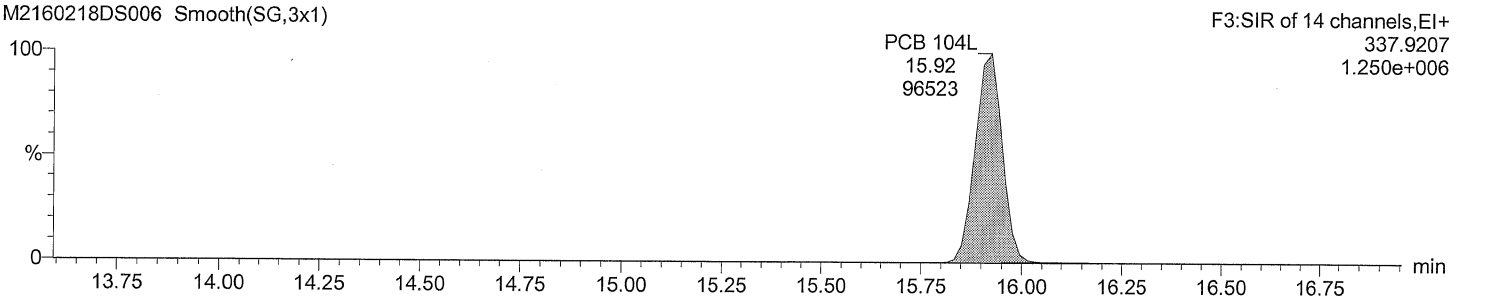

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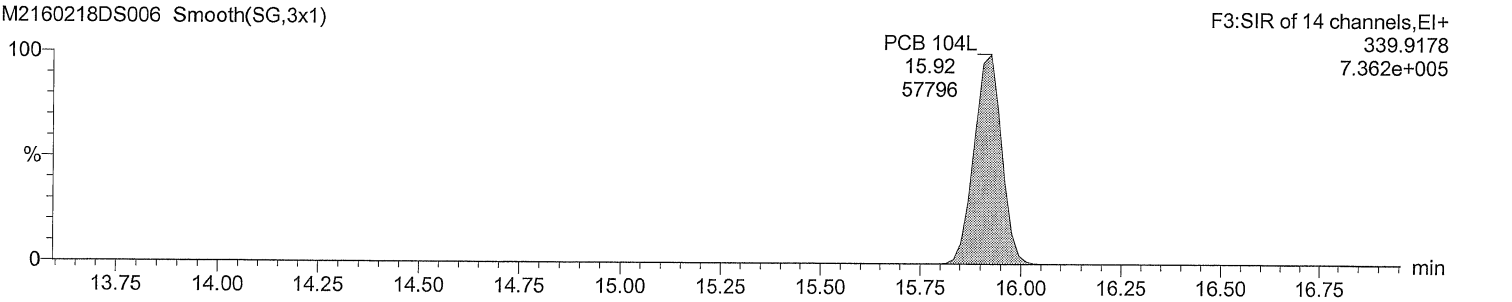

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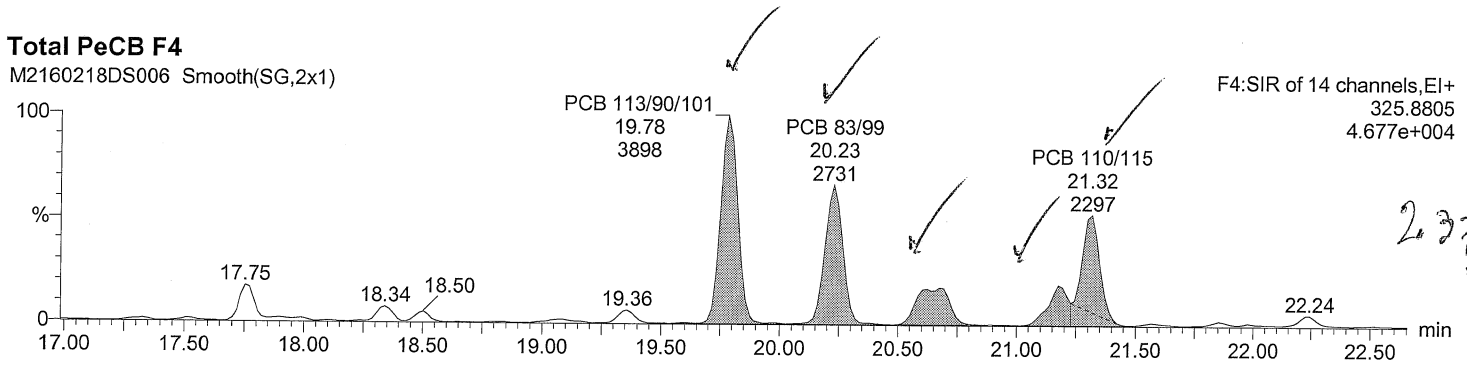

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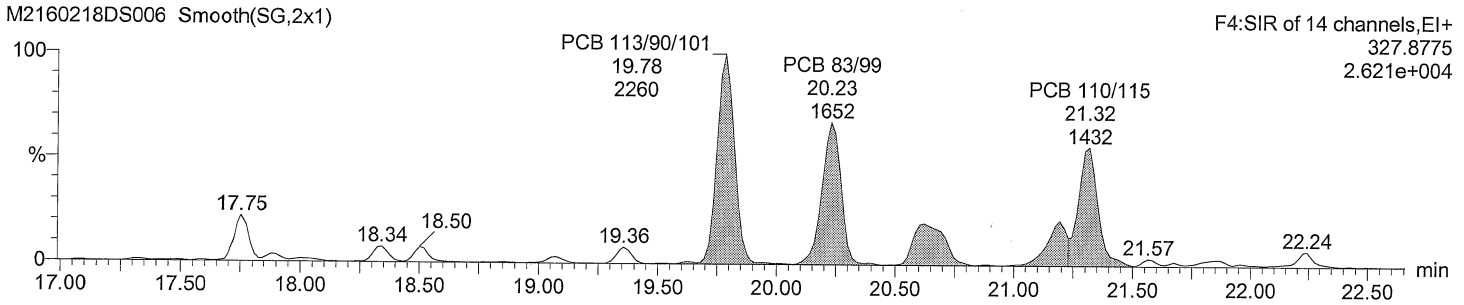

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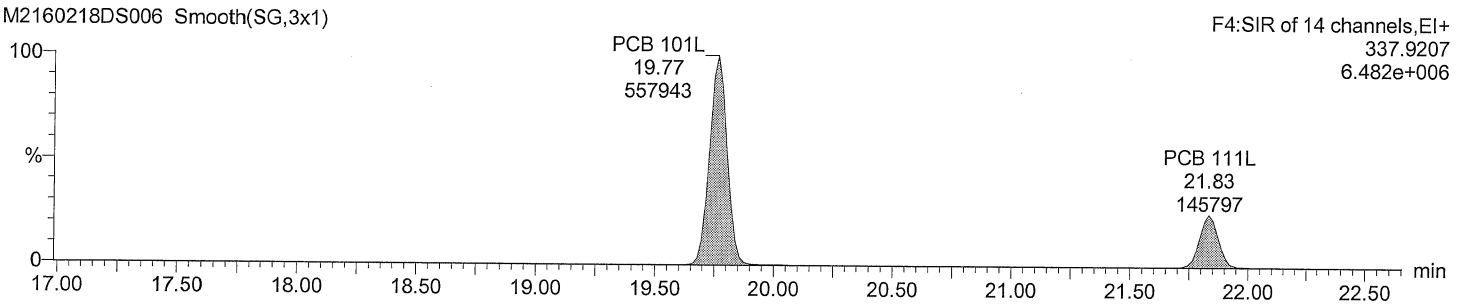

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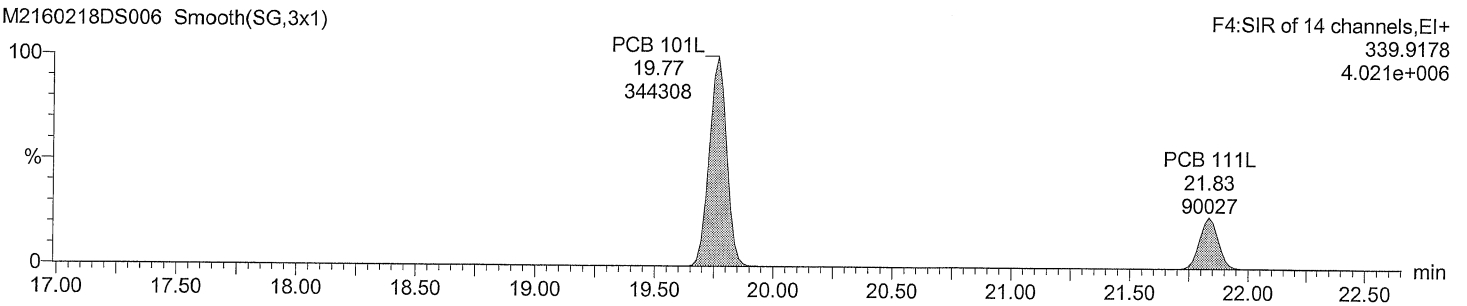

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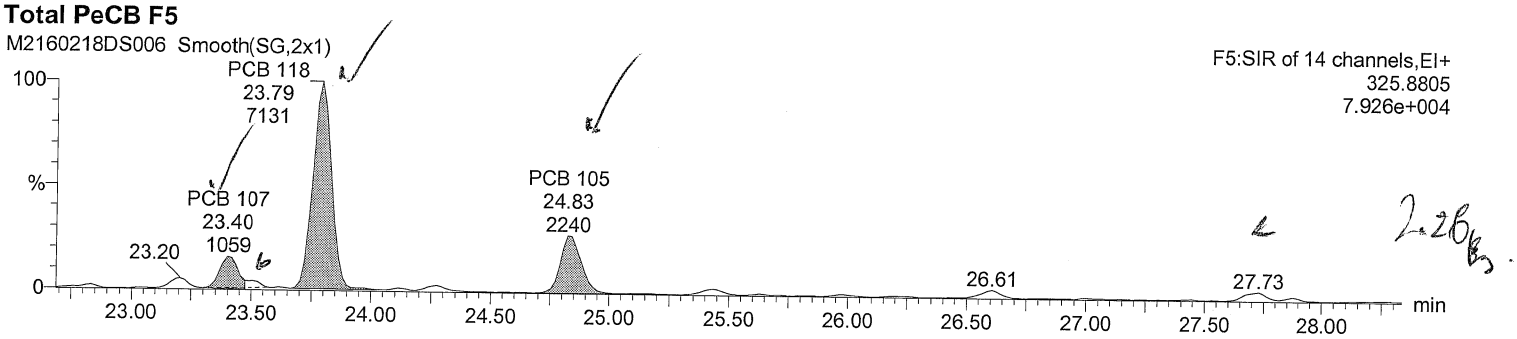

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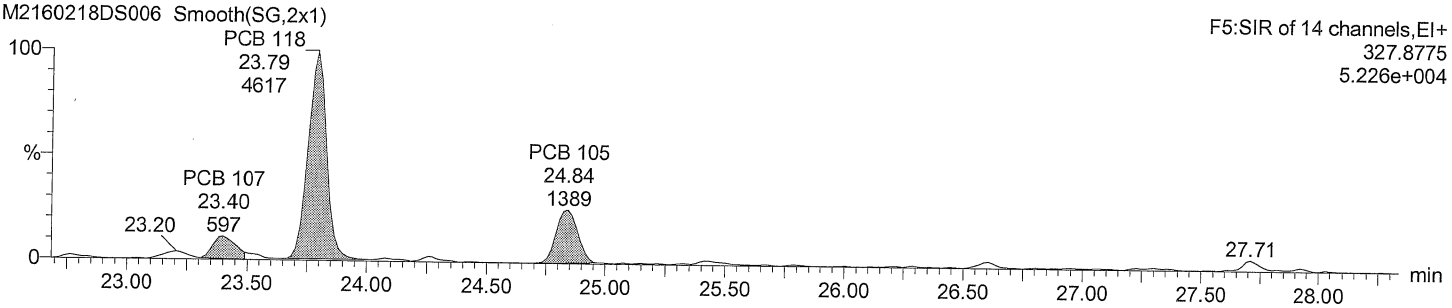

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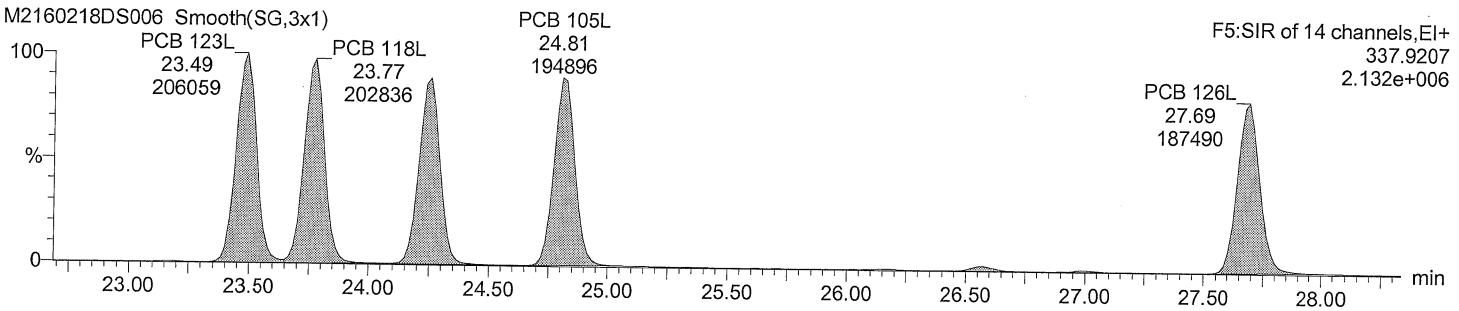

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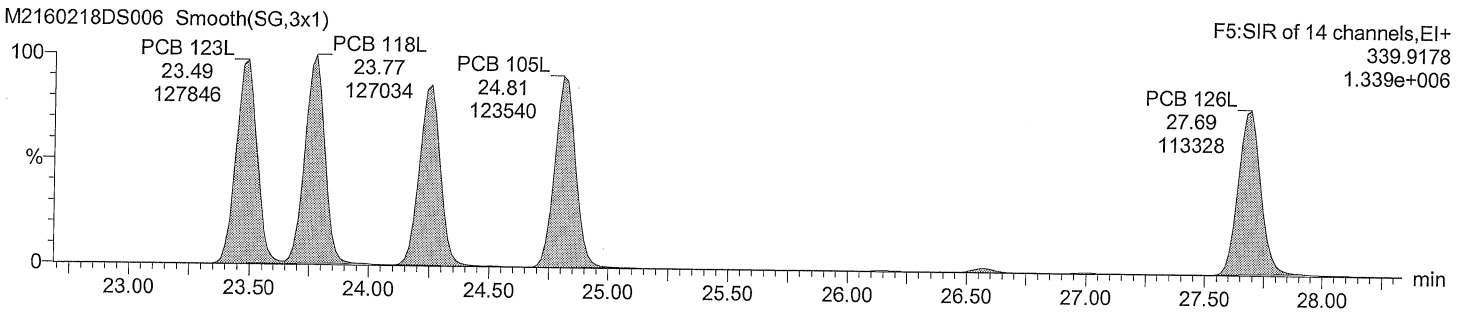

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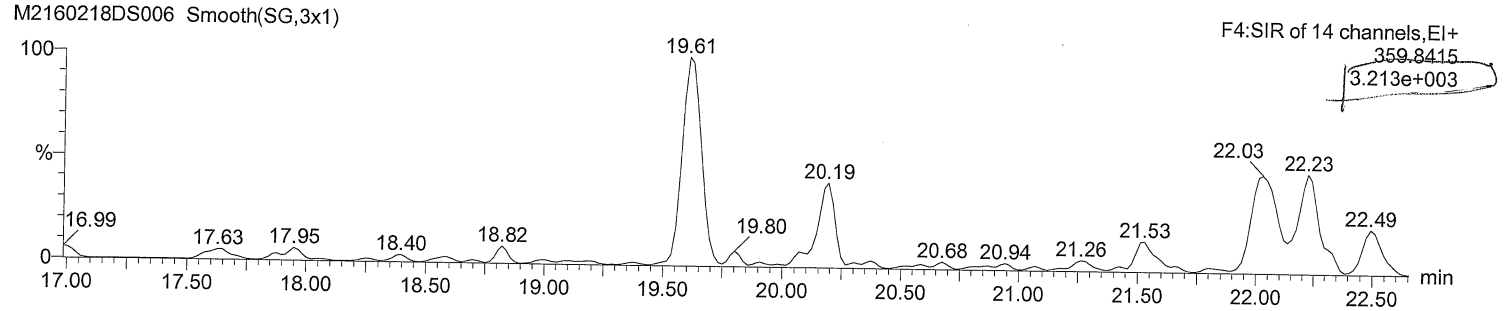
Total HxCB F4



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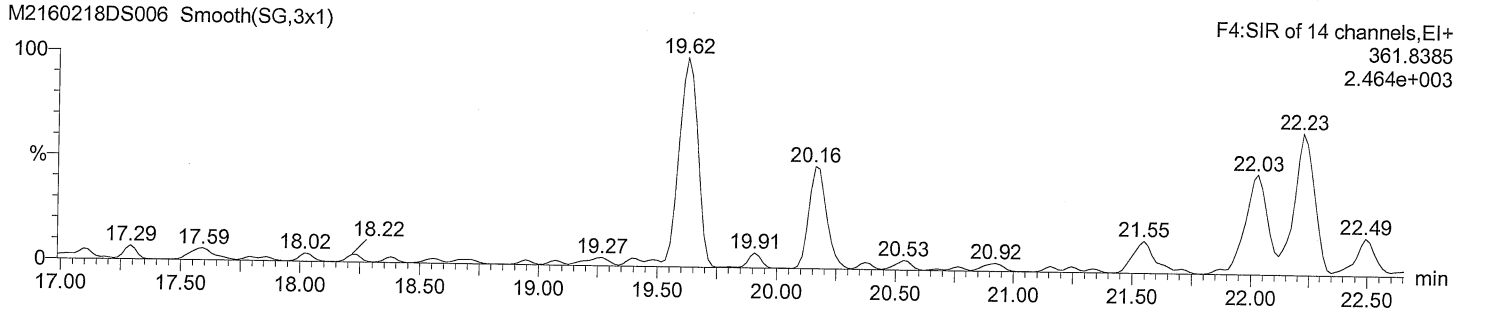

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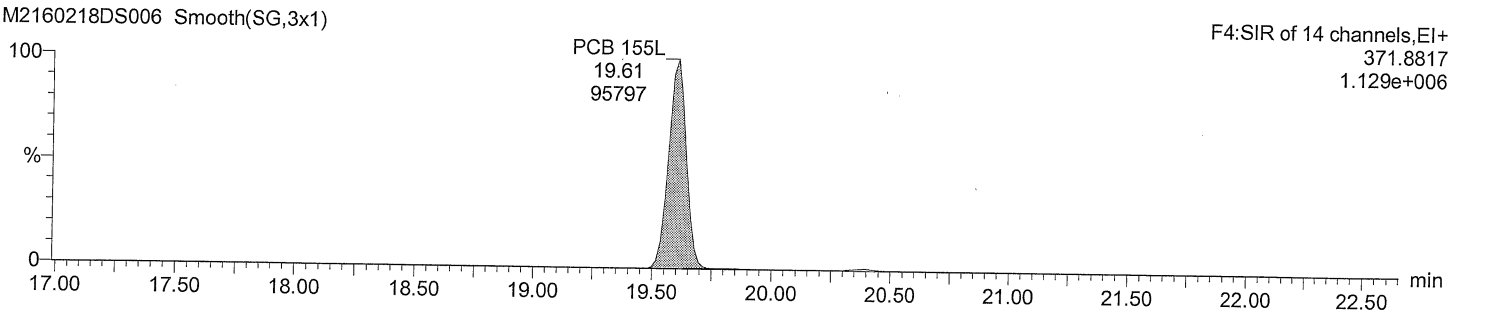

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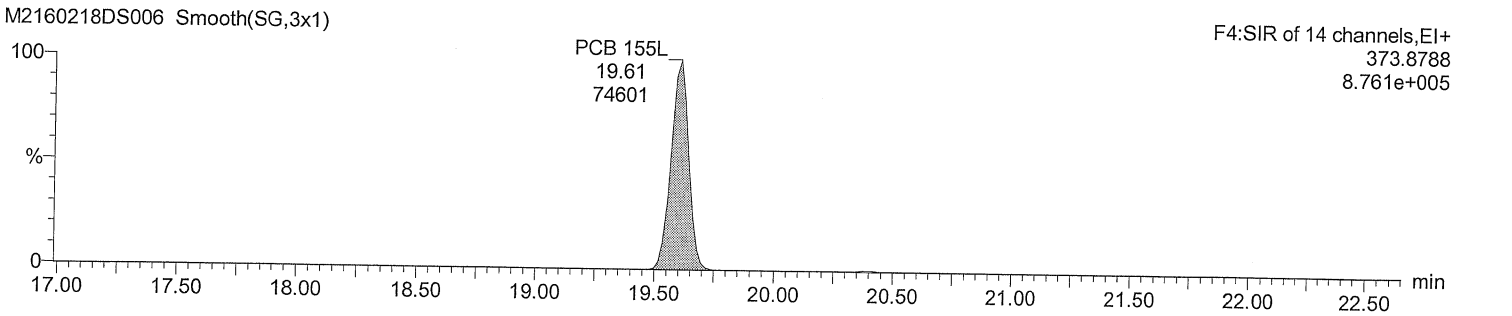

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Total HxCB F5
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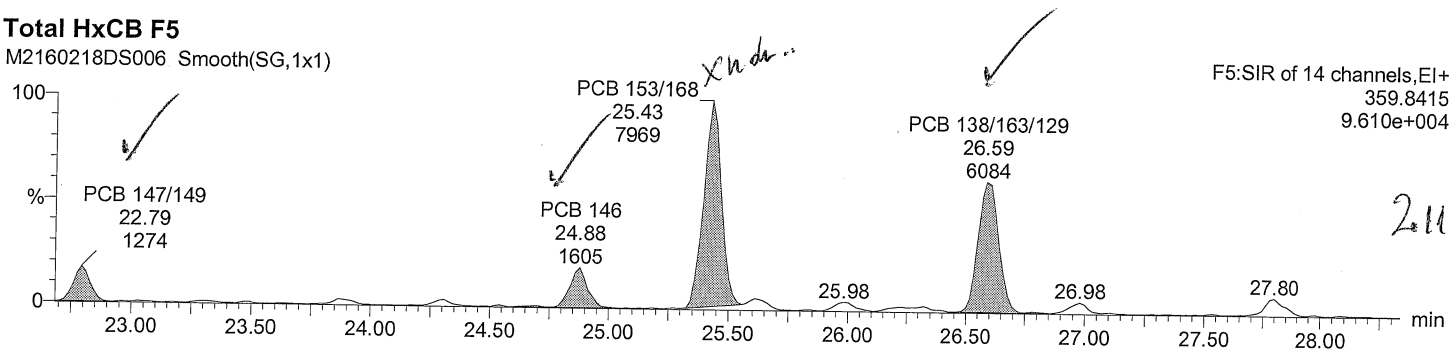

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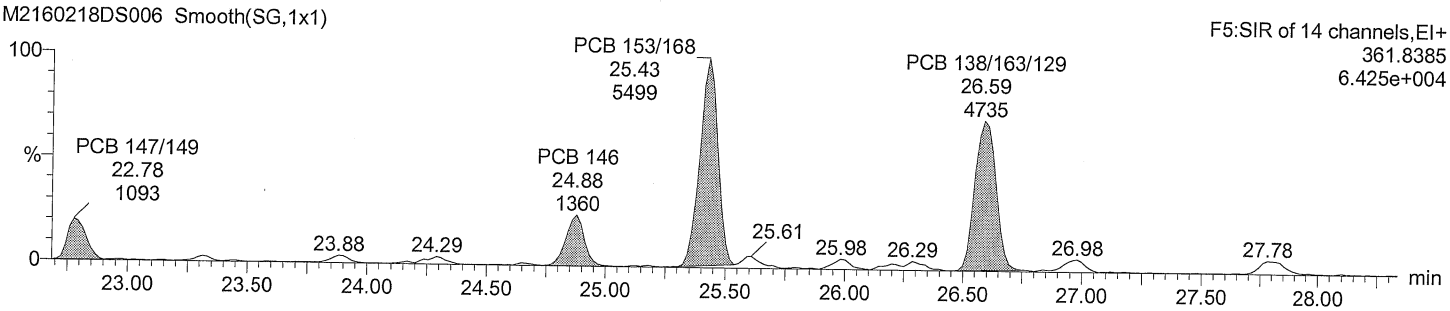

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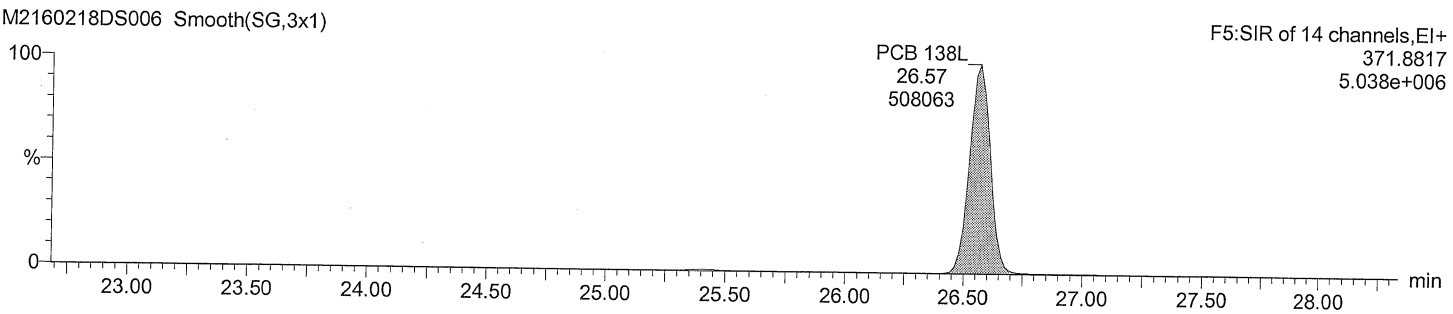

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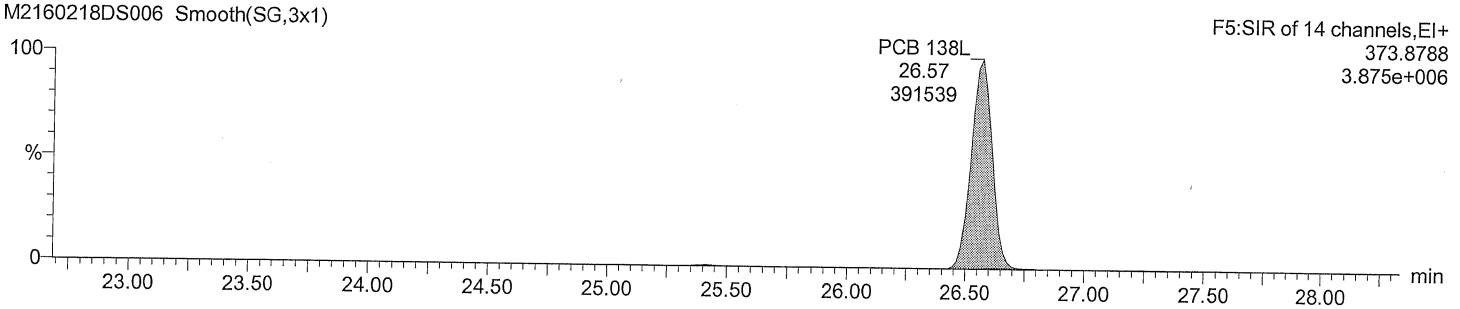

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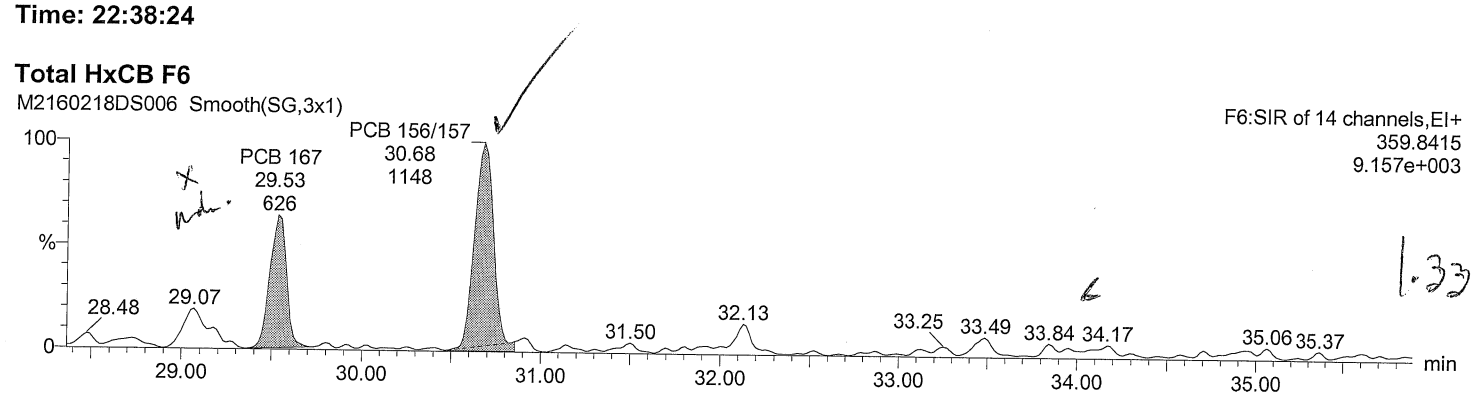

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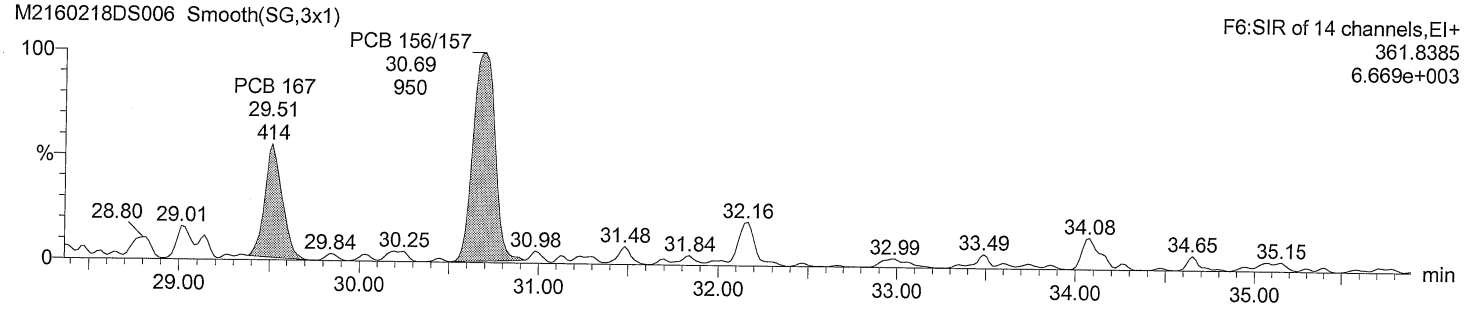

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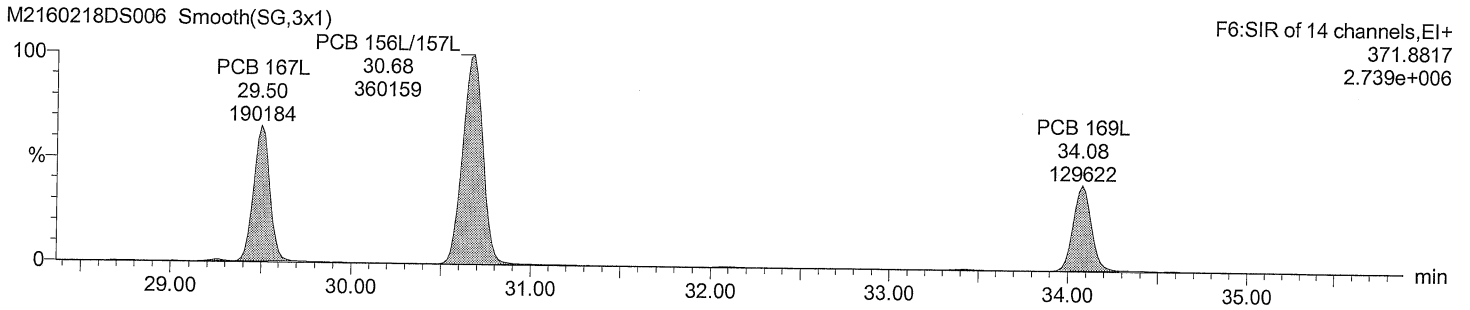

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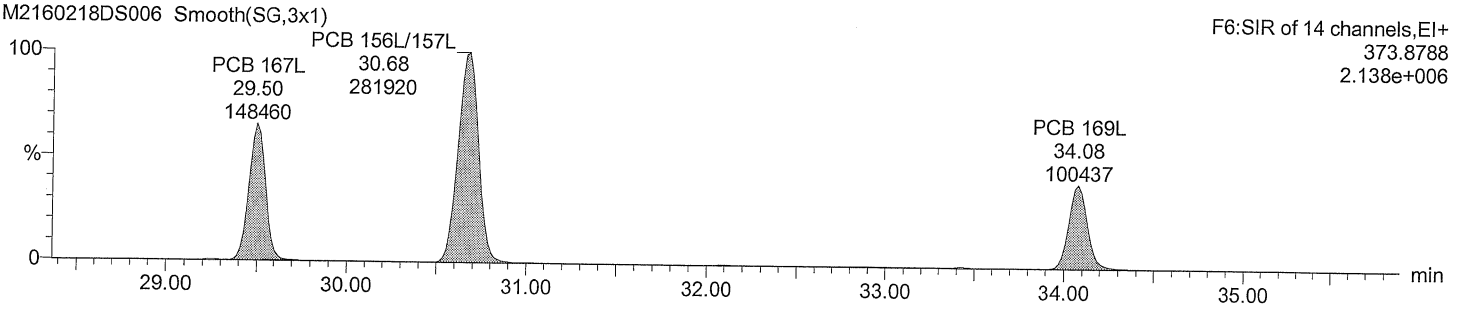

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Printed: February 20, 2016 09:27:56 AM Eastern Standard Time

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Date: 18-FEB-2016
Time: 22:38:24

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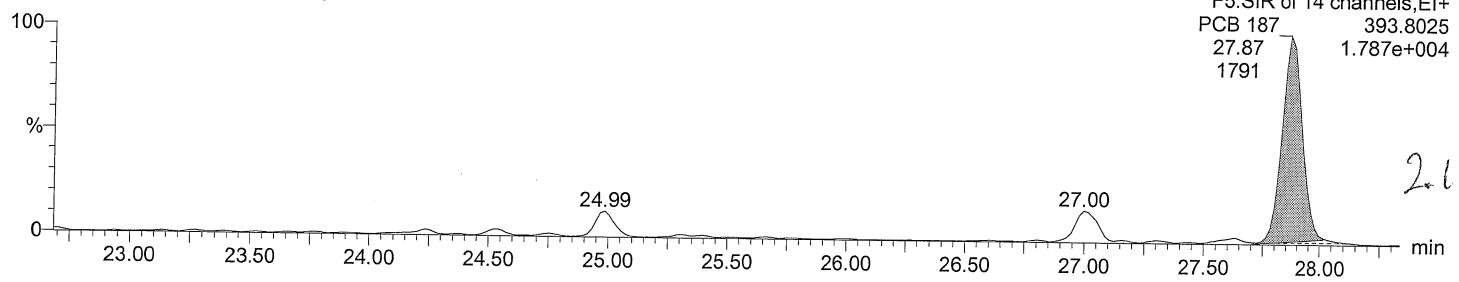

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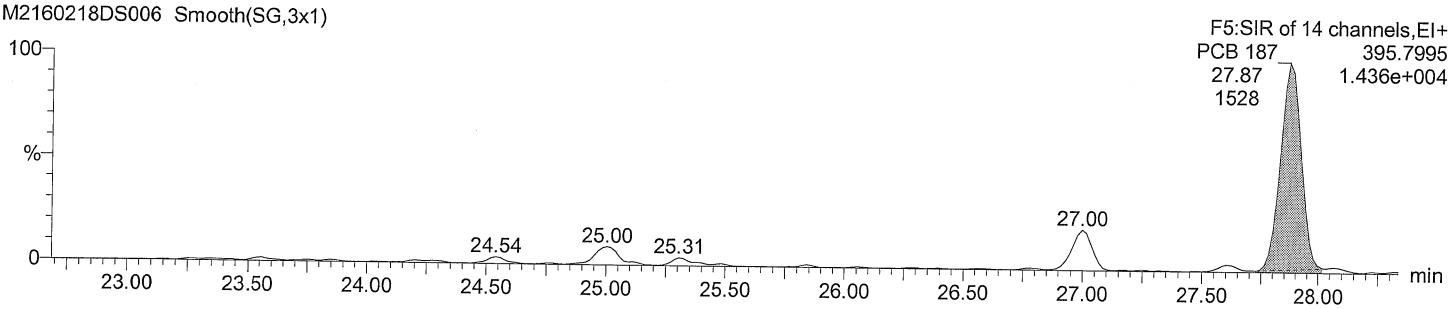

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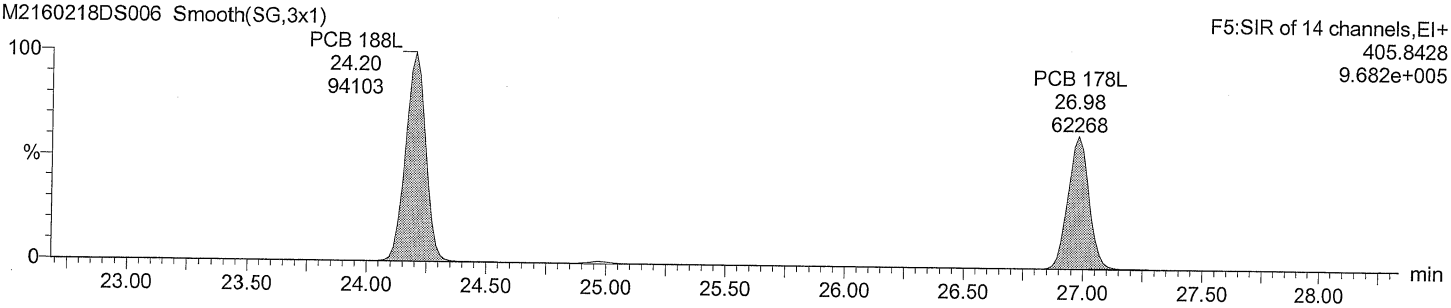

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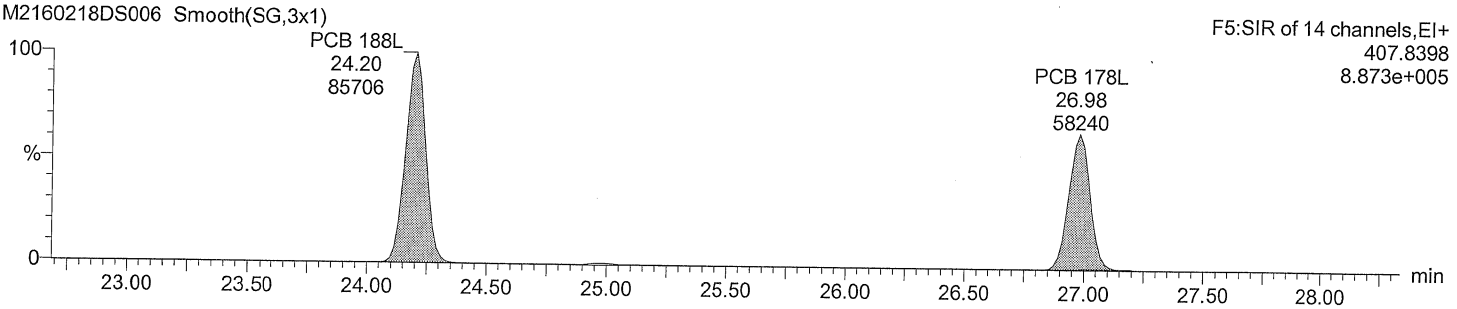

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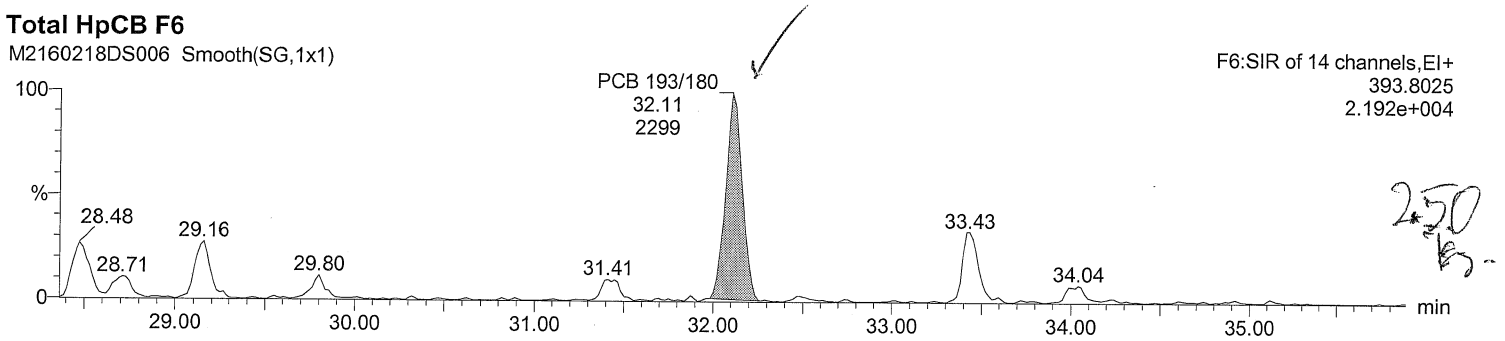

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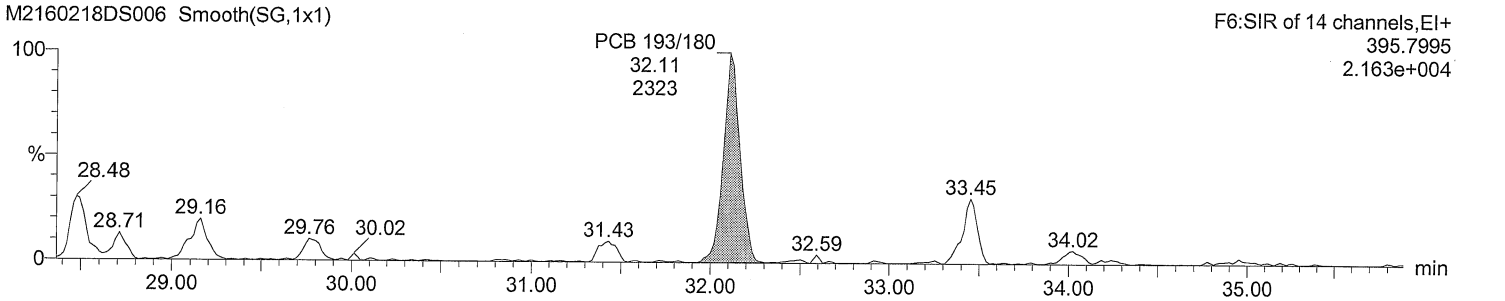

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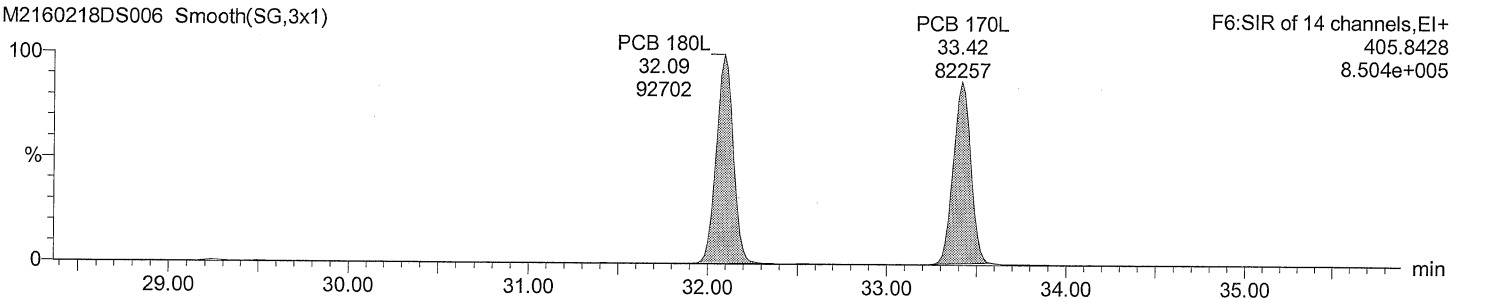

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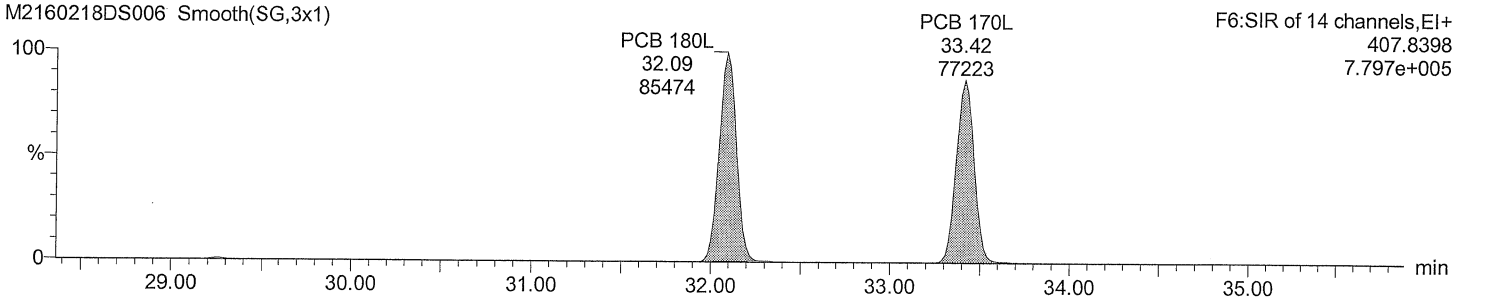

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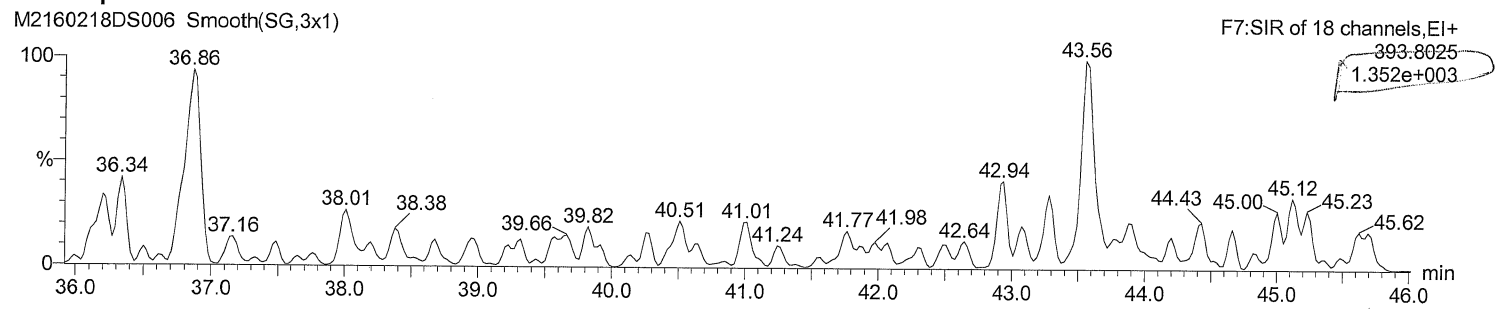

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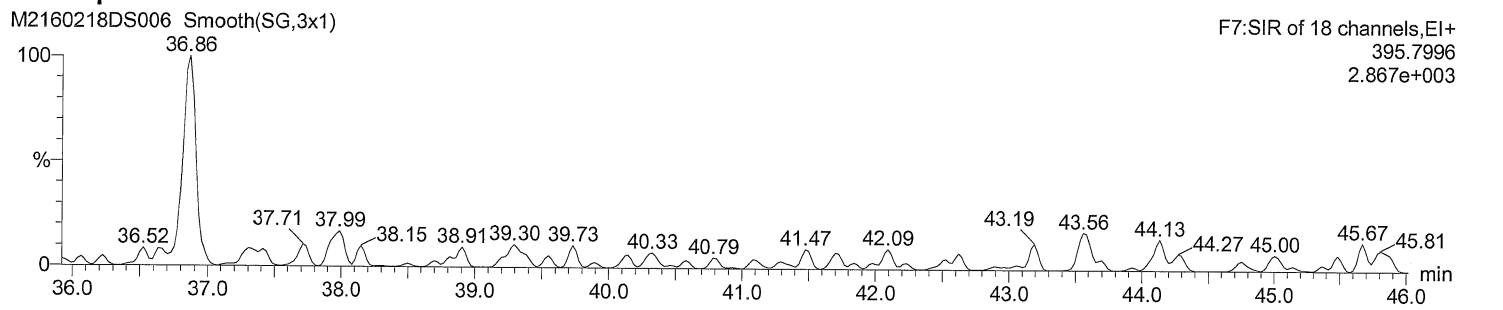

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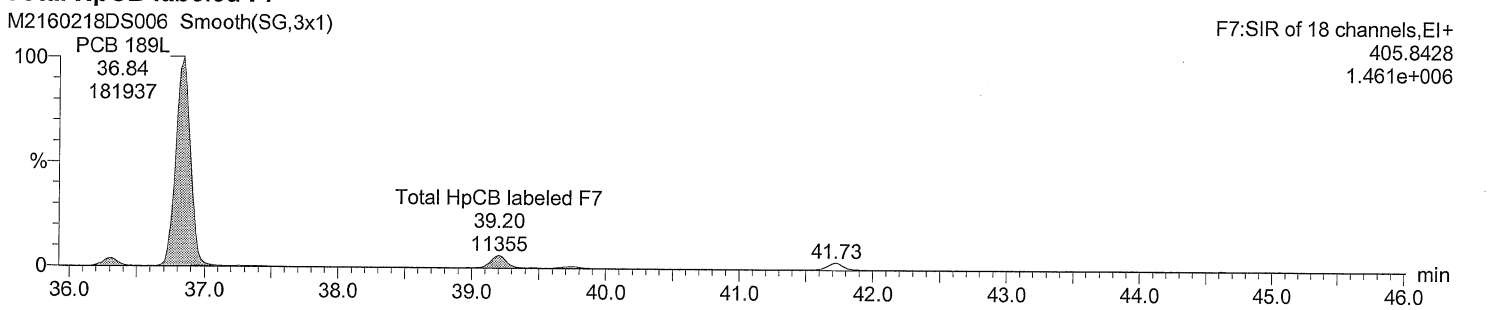

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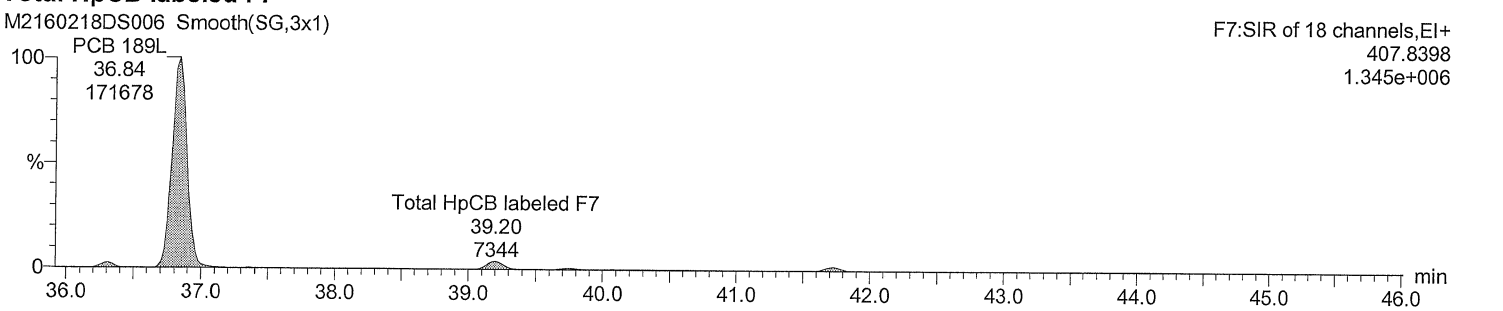

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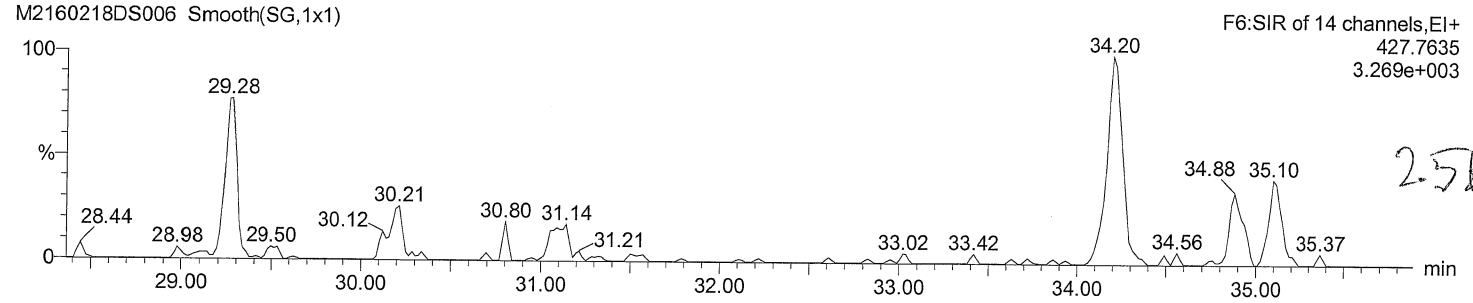

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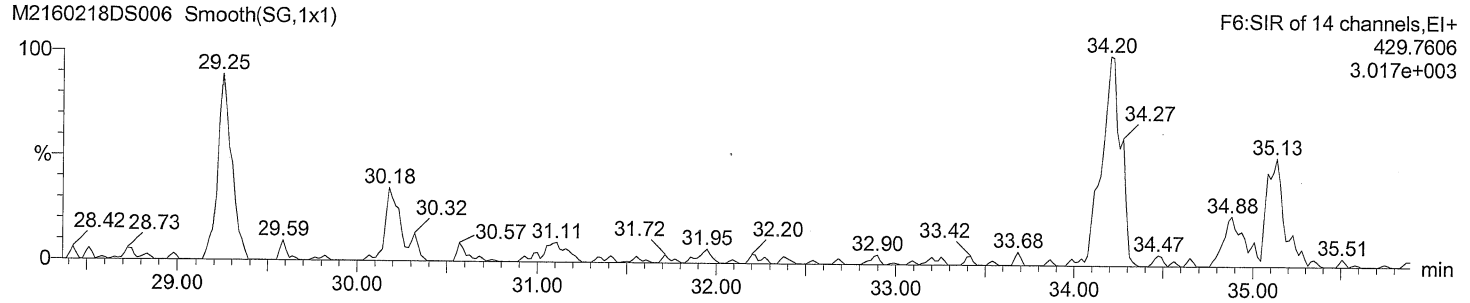

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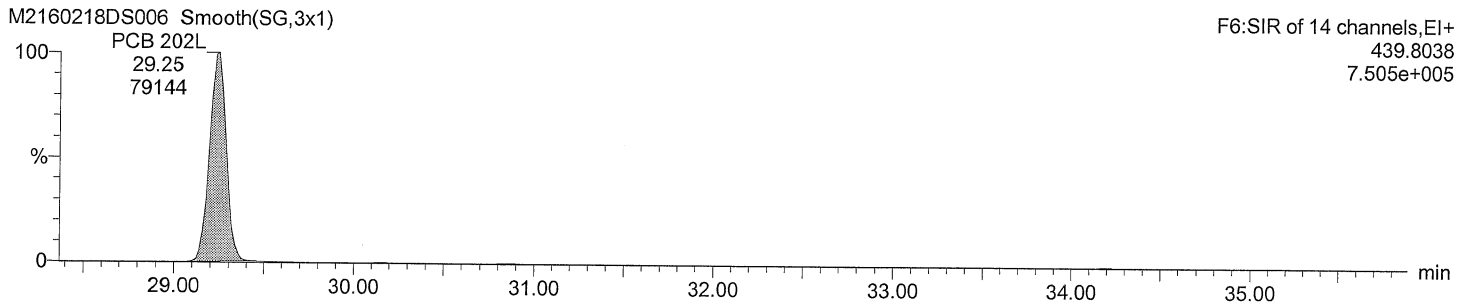

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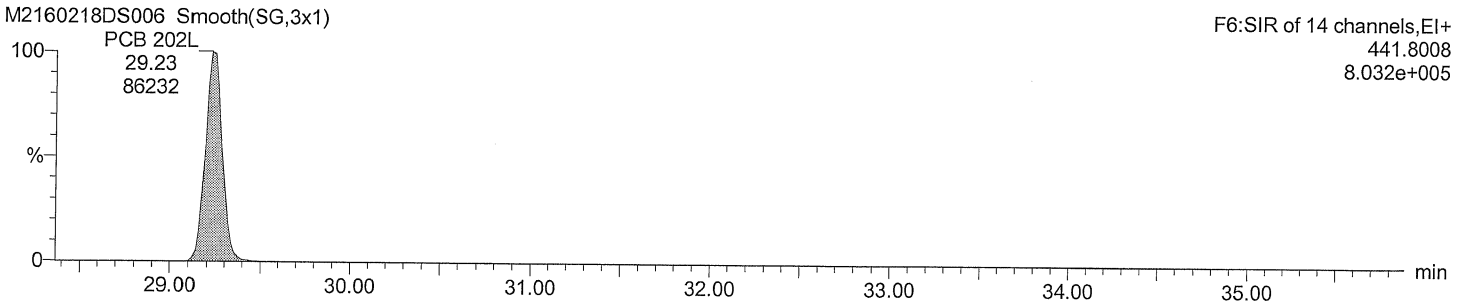

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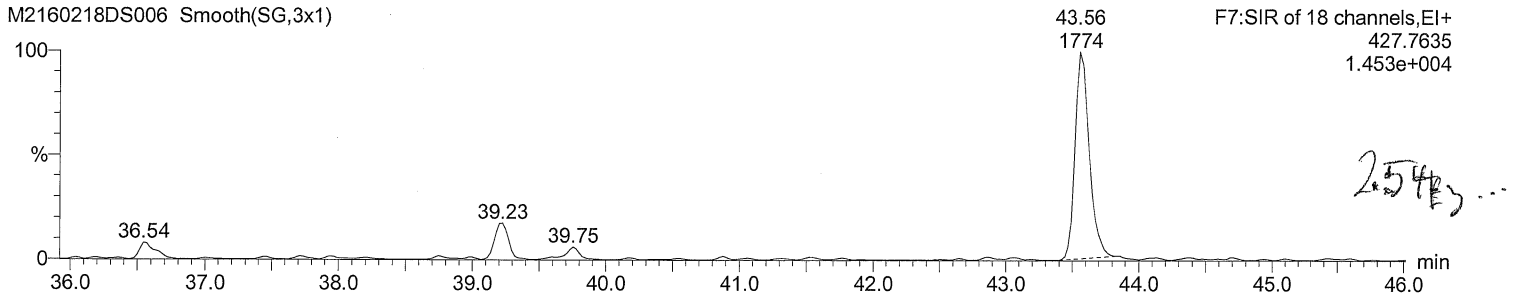

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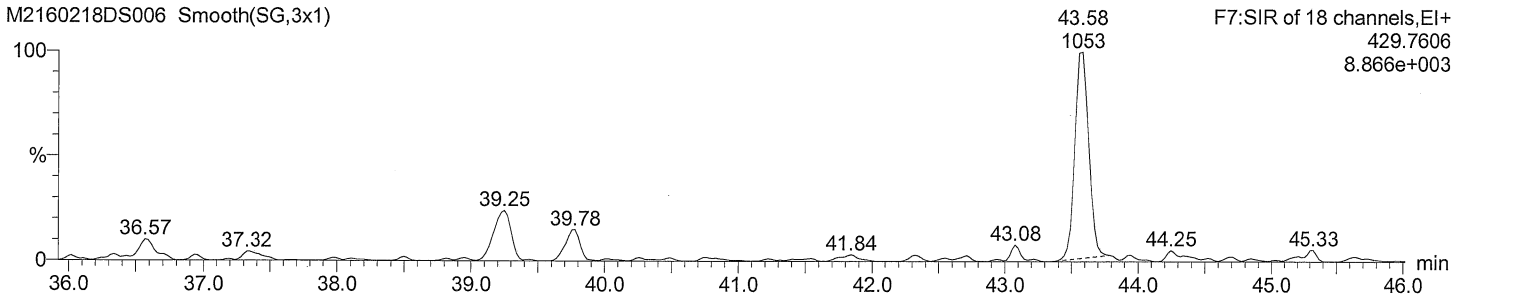

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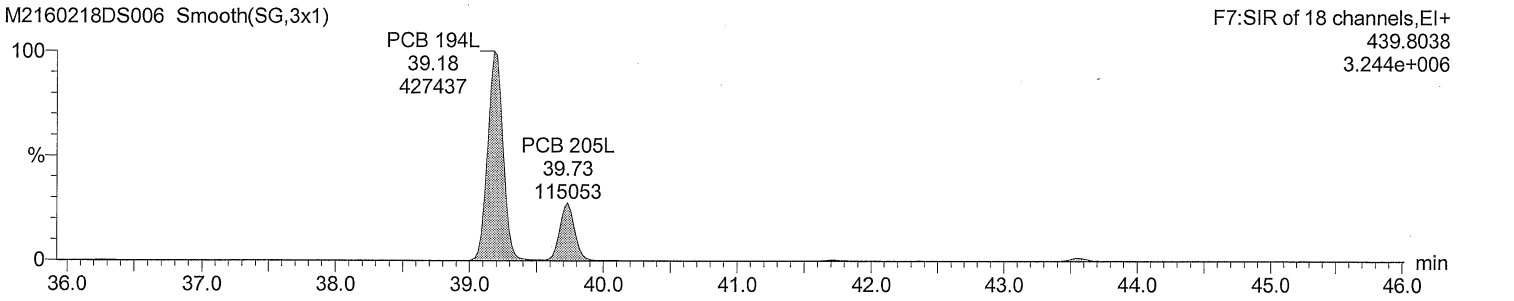

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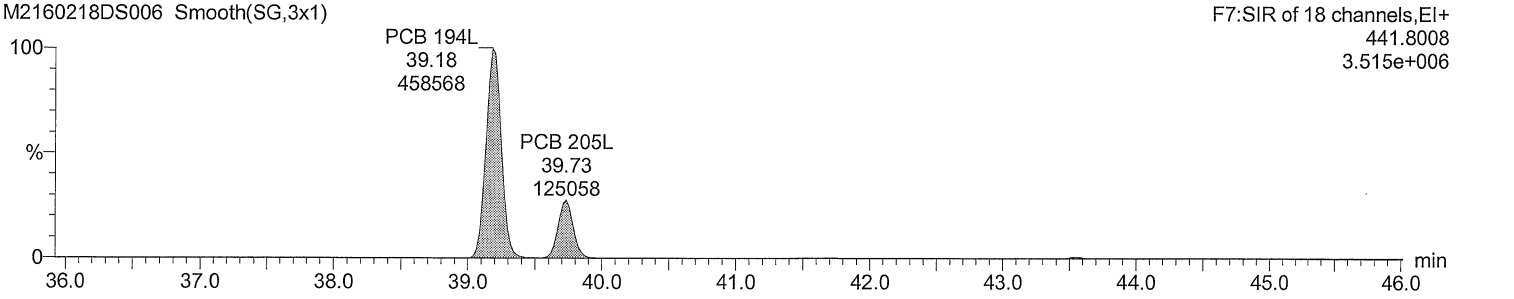

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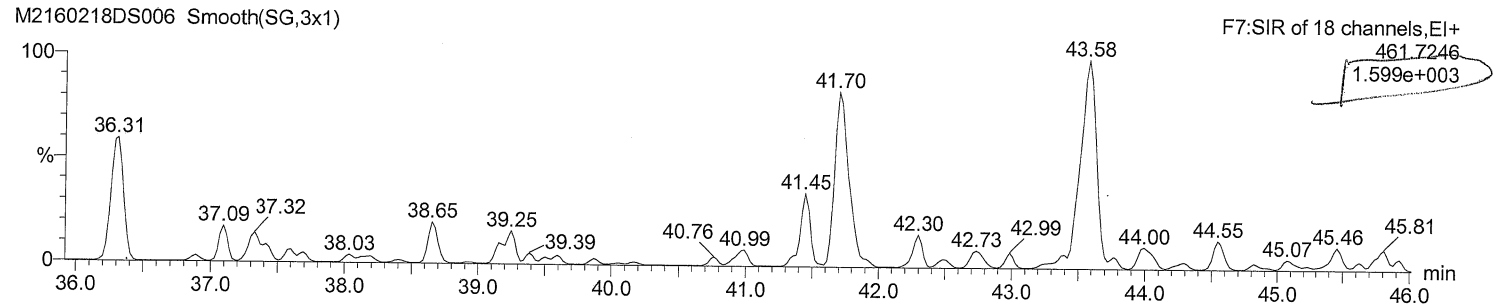

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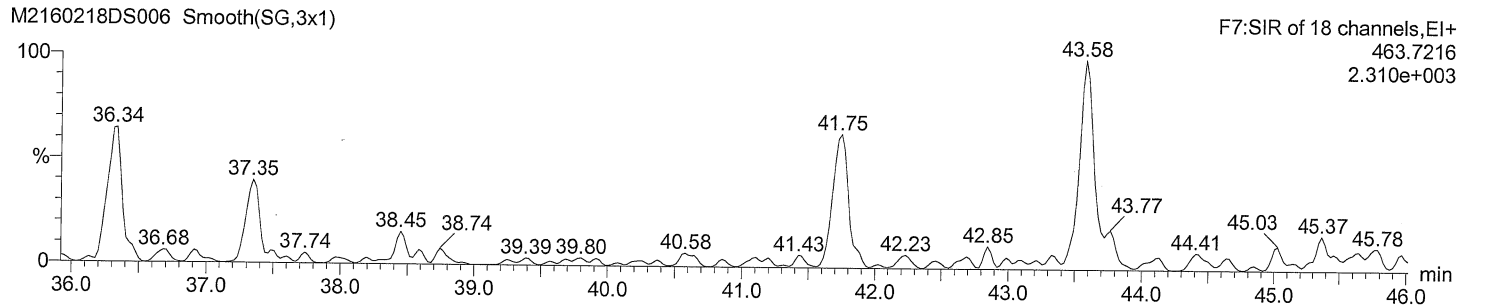

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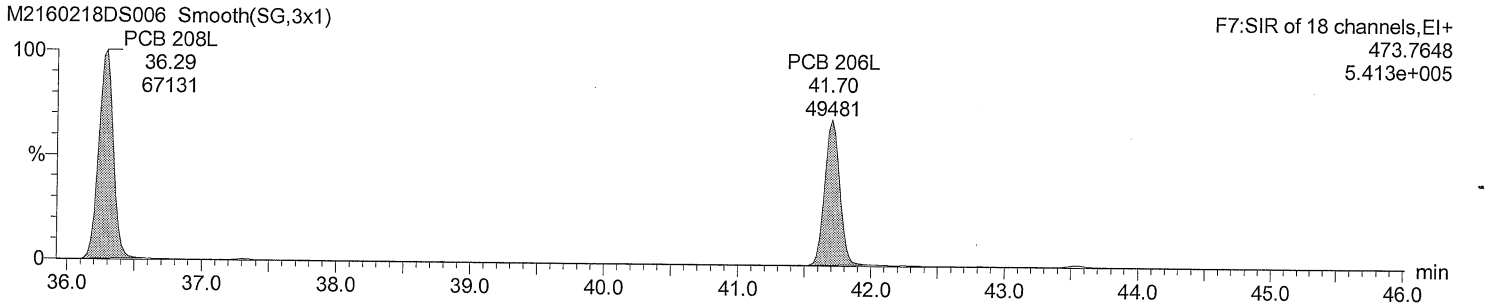

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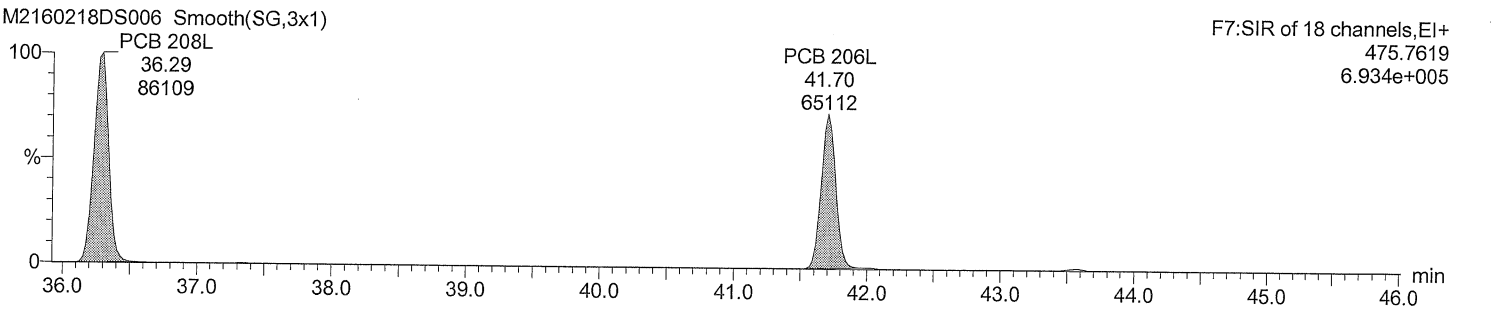

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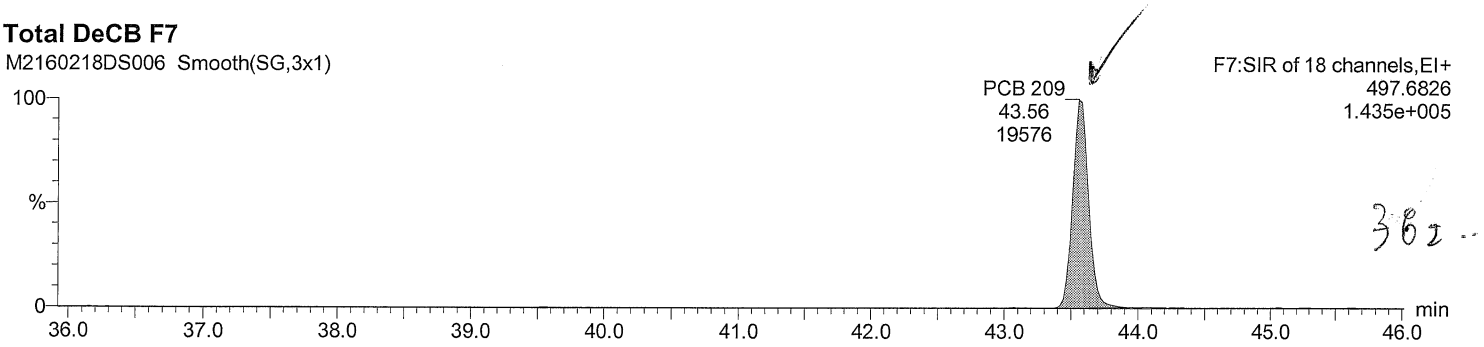

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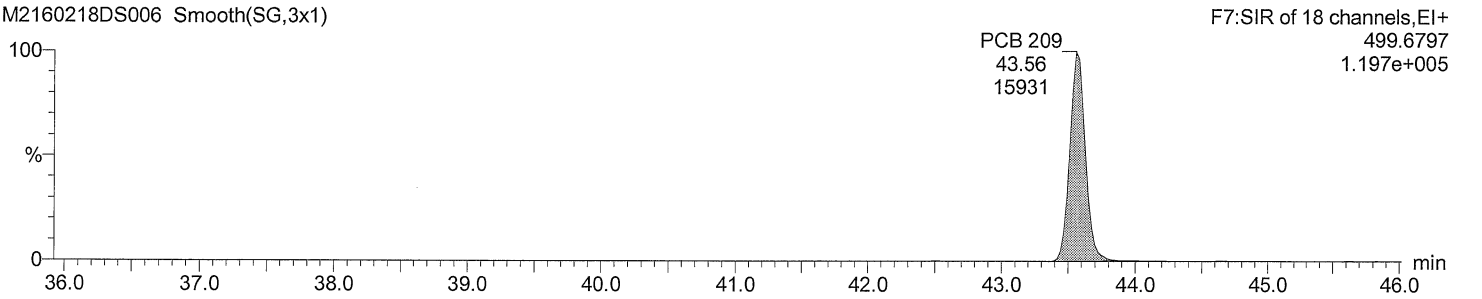

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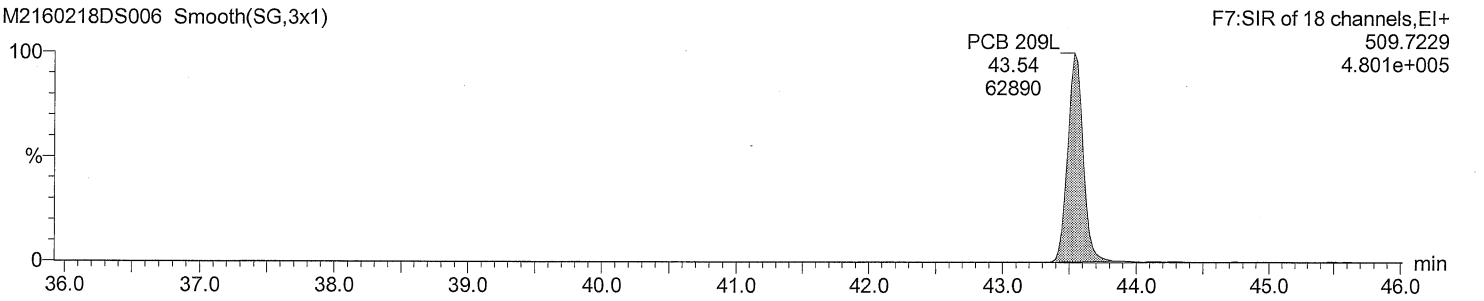

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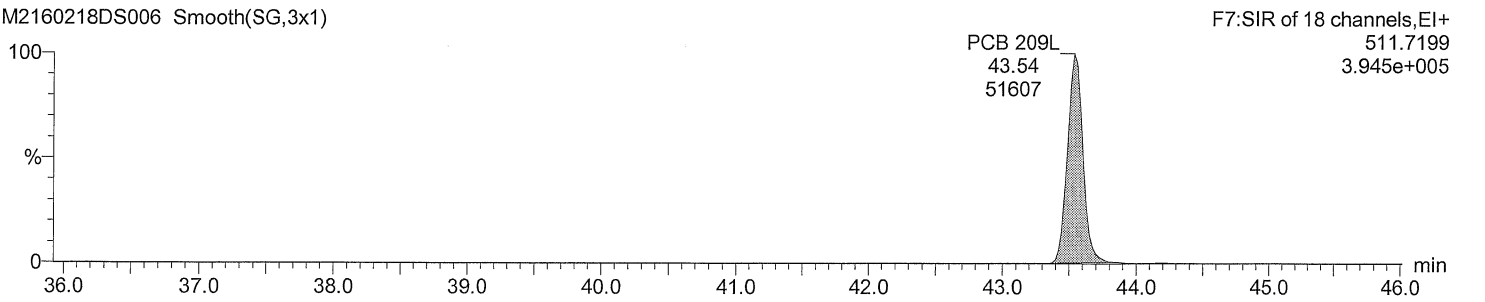

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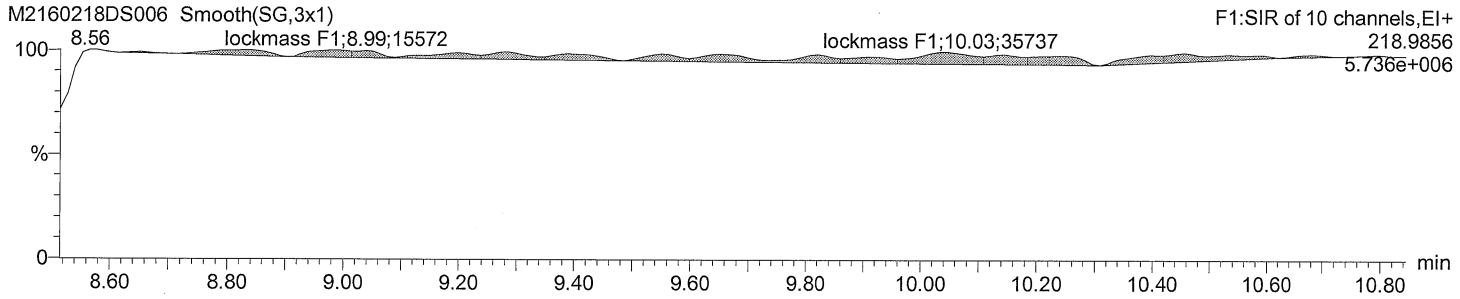

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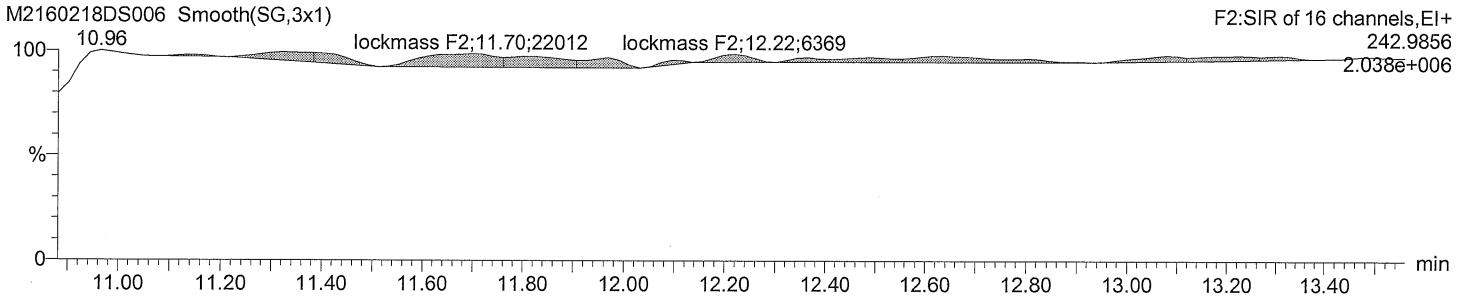

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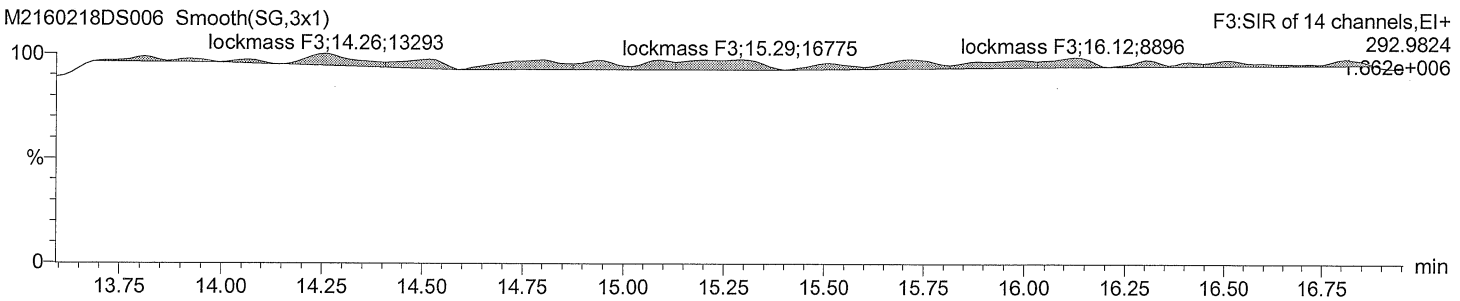

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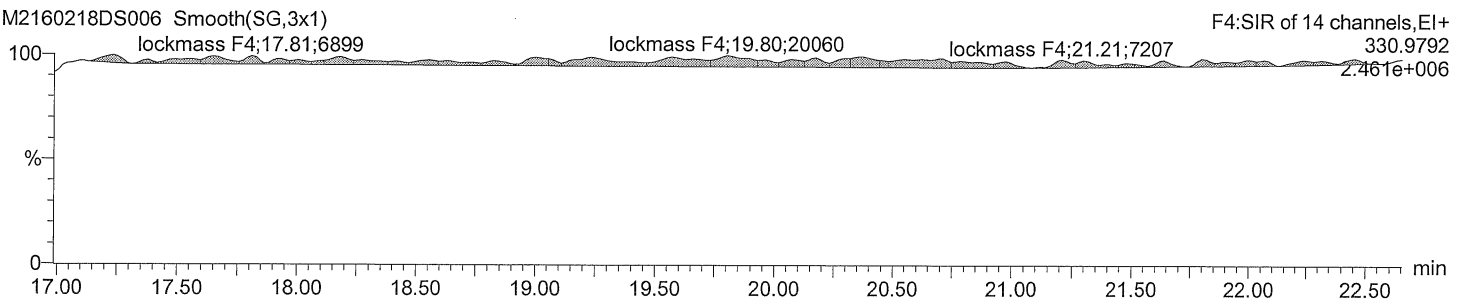

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Acquired Date

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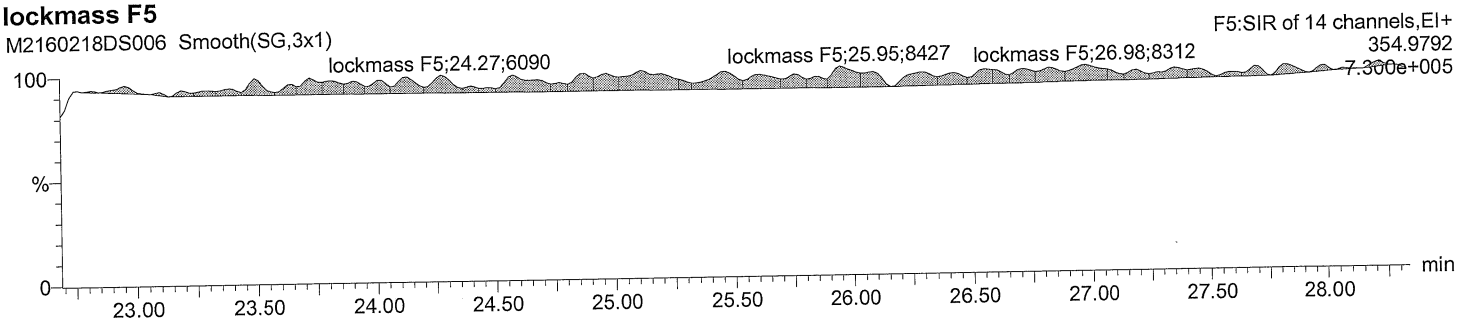
lockmass F5



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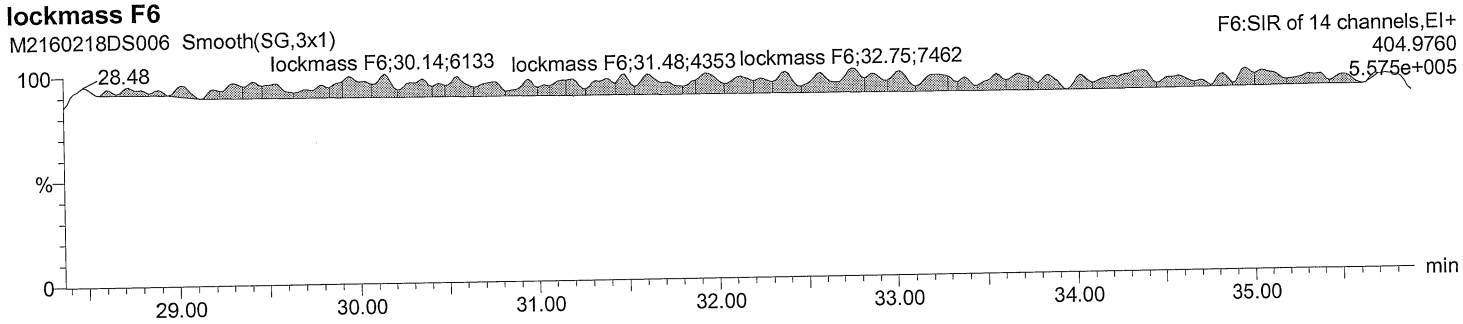

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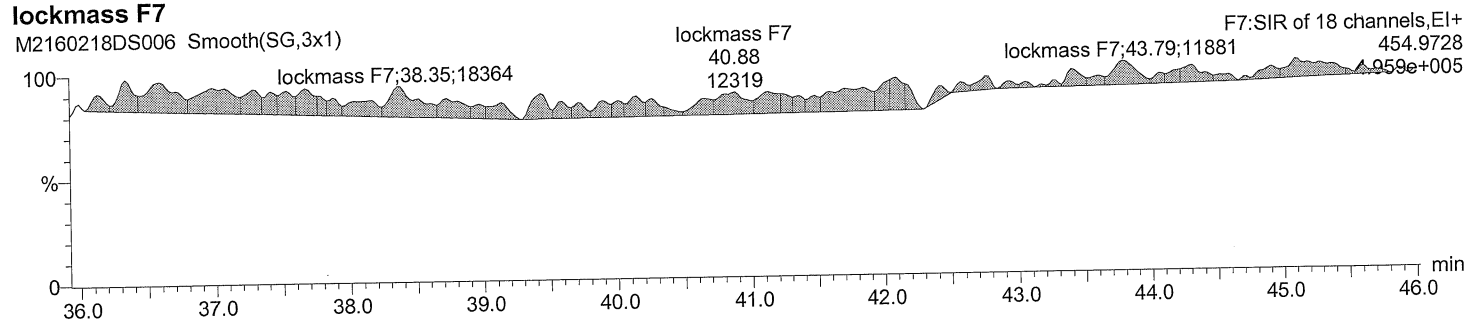

Before
16.02.20
AH.

M2160218DS006
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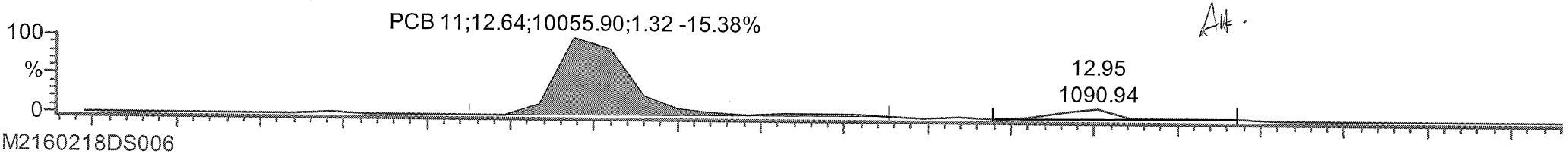

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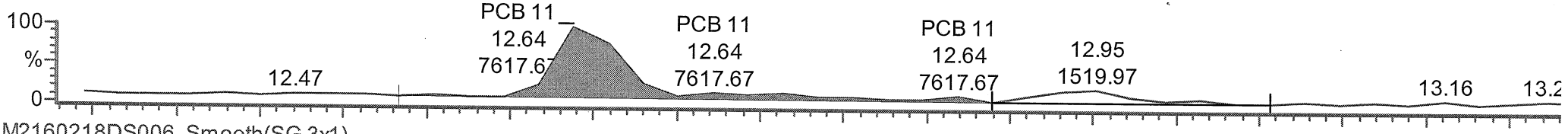

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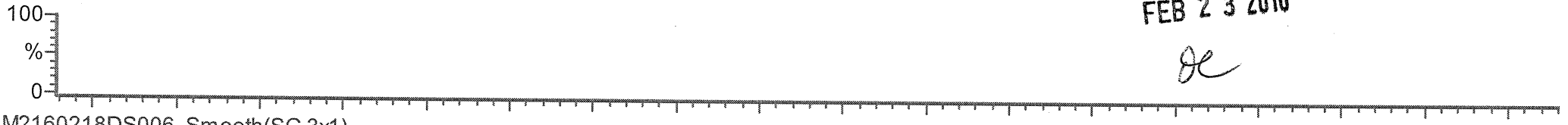
FEB 2 3 2016



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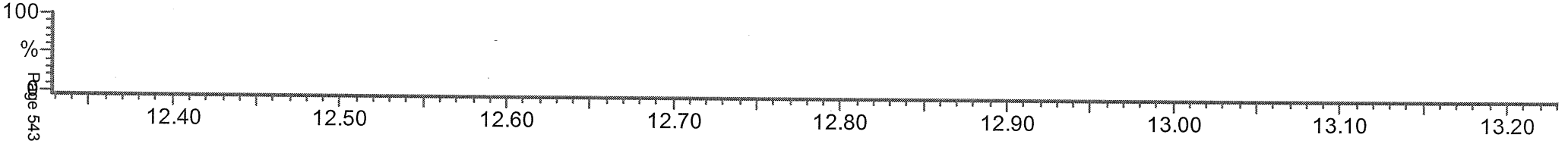

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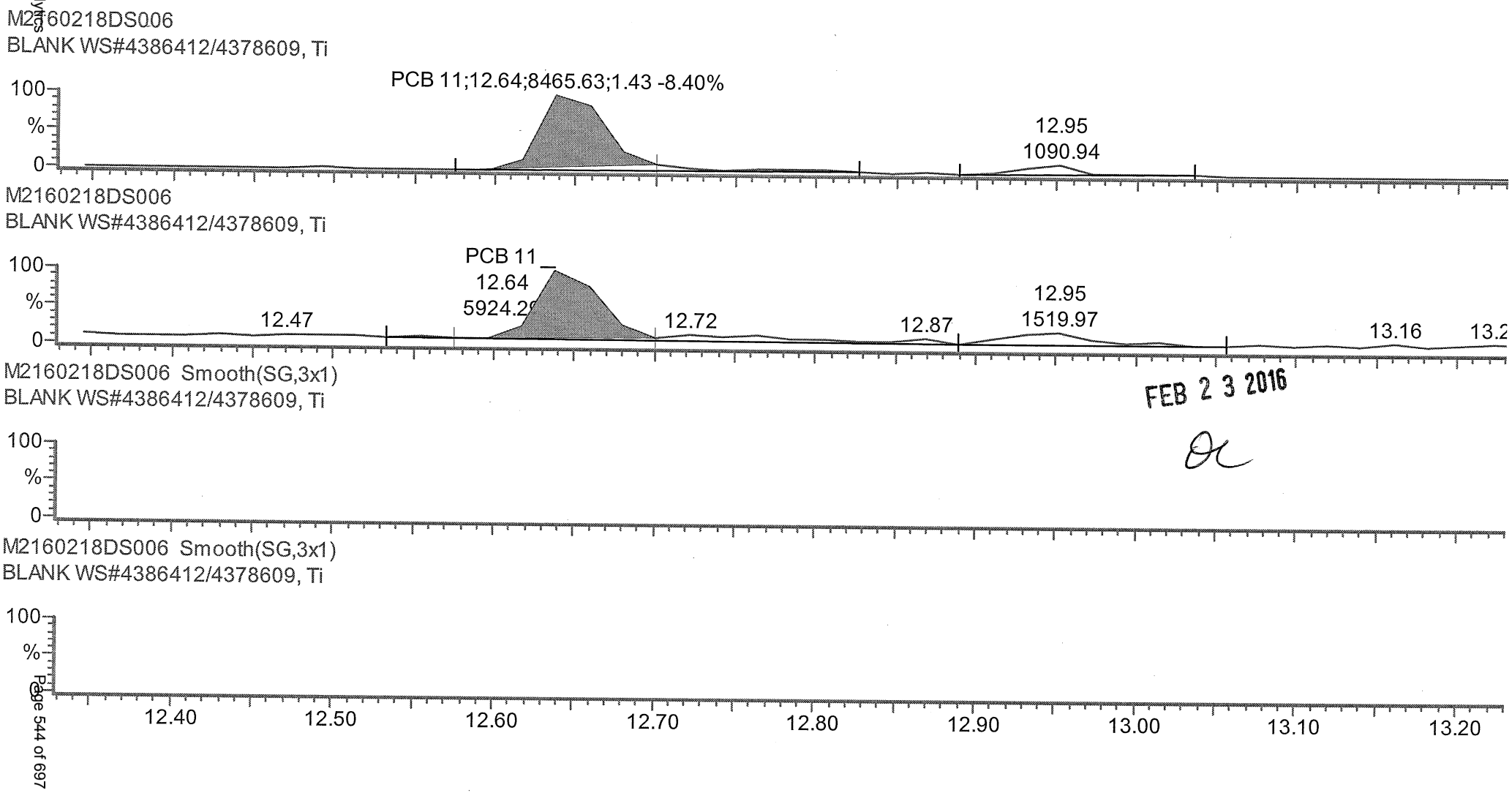

FEB 2 3 2016

Filename M2160218DS003
Acquired 18/02/2016 20:07 Cali File M2160218D_209

Sample ID SPIKE
Comments
Instrument File Ultima 3
Sample Size 10.204 Dil Fac 1.00

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1 PCB 1		**188**	**8.99**	**94454**	**3.2**	**123942**	**0.099515**	**PCB 1 % Rec = 102**		-0.00053	479	no	1.082	-
	MoCB	190	8.98	29487	yes						465			
2 PCB 2		188	NotFnd	*	*	*	-0.00047			-0.00047	*	no	1.2	-
	MoCB	190	10.10	*	no						*			
3 PCB 3		**188**	**10.19**	**90697**	**3.25**	**118577**	**0.098793**	**PCB 3 % Rec = 101**		-0.00053	485	no	1.079	-
	MoCB	190	10.19	27880	yes						462			
4 PCB 4		**222**	**10.30**	**35779**	**1.55**	**58847**	**0.109975**	**PCB 4 % Rec = 112**		-0.00232	1052	no	0.954	-
	DiCB	224	10.30	23068	yes						48			
5 PCB 10		222	NotFnd	*	*	*	-0.0018			-0.0018	*	no	1.229	-
	DiCB	224	10.37	*	no						*			
6 PCB 9		222	NotFnd	*	*	*	-0.00319			-0.00319	*	no	1.311	-
	DiCB	224	11.18	*	no						*			
7 PCB 7		222	NotFnd	*	*	*	-0.00359			-0.00359	*	no	1.165	-
	DiCB	224	11.26	*	no						*			
8 PCB 6		222	NotFnd	*	*	*	-0.00317			-0.00317	*	no	1.319	-
	DiCB	224	11.34	*	no						*			
9 PCB 5		222	NotFnd	*	*	*	-0.00426			-0.00426	*	no	0.983	-
	DiCB	224	11.50	*	no						*			
10 PCB 8		222	NotFnd	*	*	*	-0.00287			-0.00287	*	no	1.456	-
	DiCB	224	11.55	*	no						*			
11 PCB 14		222	NotFnd	*	*	*	-0.00314			-0.00314	*	no	1.332	-
	DiCB	224	12.26	*	no						*			
12 PCB 11		222	NotFnd	*	*	*	-0.00326			-0.00326	*	no	1.285	-
	DiCB	224	12.66	*	no						*			
13 PCB 13/12		222	NotFnd	*	*	*	-0.00346			-0.00346	*	no	1.21	-
	DiCB	224	12.82	*	no						*			
14 PCB 15		**222**	**12.95**	**93605**	**1.51**	**155531**	**0.104571**	**PCB 15 % Rec = 107**		-0.0048	1223	no	0.871	-
	DiCB	224	12.96	61927	yes						48			
15 PCB 19		**256**	**11.68**	**30803**	**1.05**	**60211**	**0.102724**	**PCB 19 % Rec = 105**		-0.00237	256	no	0.899	-
	TriCB	258	11.70	29408	yes						257			
16 PCB 30/18		256	NotFnd	*	*	*	-0.00262			-0.00262	*	no	0.813	-
	TriCB	258	12.48	*	no						*			
17 PCB 17		256	NotFnd	*	*	*	-0.00312			-0.00312	*	no	0.683	-
	TriCB	258	12.69	*	no						*			
18 PCB 27		256	NotFnd	*	*	*	-0.00213			-0.00213	*	no	1.002	-
	TriCB	258	12.79	*	no						*			
19 PCB 24		256	NotFnd	*	*	*	-0.00249			-0.00249	*	no	0.855	-
	TriCB	258	12.87	*	no						*			
20 PCB 16		256	NotFnd	*	*	*	-0.00425			-0.00425	*	no	0.501	-
	TriCB	258	12.90	*	no						*			
21 PCB 32		256	NotFnd	*	*	*	-0.00195			-0.00195	*	no	1.093	-
	TriCB	258	13.14	*	no						*			
22 PCB 34		**256**	**13.74**	**69645**	**1.01**	**138669**	**0.091522**	**PCB 34 % Rec = 93**		-0.00054	666	no	1.235	-
	TriCB	258	13.74	69025	yes						675			
23 PCB 23		**256**	**13.83**	**81143**	**1.04**	**158821**	**0.125415**	**PCB 23 % Rec = 128**		-0.00064	688	no	1.033	-
	TriCB	258	13.83	77678	yes						677			
24 PCB 26/29		256	NotFnd	*	*	*	-0.00054			-0.00054	*	no	1.221	-
	TriCB	258	13.99	*	no						*			
25 PCB 25		256	NotFnd	*	*	*	-0.0005			-0.0005	*	no	1.334	-
	TriCB	258	14.10	*	no						*			
26 PCB 31		256	NotFnd	*	*	*	-0.0005			-0.0005	*	no	1.335	-
	TriCB	258	14.26	*	no						*			
27 PCB 28/20		256	NotFnd	*	*	*	-0.00056			-0.00056	*	no	1.191	-
	TriCB	258	14.43	*	no						*			
28 PCB 21/33		256	NotFnd	*	*	*	-0.00053			-0.00053	*	no	1.255	-
	TriCB	258	14.53	*	no						*			
29 PCB 22		256	NotFnd	*	*	*	-0.00059			-0.00059	*	no	1.127	-
	TriCB	258	14.76	*	no						*			
30 PCB 36		256	NotFnd	*	*	*	-0.00042			-0.00042	*	no	1.57	-
	TriCB	258	15.60	*	no						*			
31 PCB 39		256	NotFnd	*	*	*	-0.0005			-0.0005	*	no	1.32	-
	TriCB	258	15.83	*	no						*			
32 PCB 38		256	NotFnd	*	*	*	-0.00046			-0.00046	*	no	1.438	-
	TriCB	258	16.18	*	no						*			
33 PCB 35		256	NotFnd	*	*	*	-0.00042			-0.00042	*	no	1.597	-
	TriCB	258	16.45	*	no						*			
34 PCB 37		**256**	**16.70**	**79602**	**1**	**158770**	**0.09737**	**PCB 37 % Rec = 99**		-0.00073	550	no	0.906	-
	TriCB	258	16.70	79168	yes						563			
35 PCB 54		**290**	**13.08**	**30125**	**0.77**	**69131**	**0.098275**	**PCB 54 % Rec = 100**		-0.00061	389	no	0.911	-
	TCB	292	13.08	39006	yes						386			
36 PCB 53/50		290	NotFnd	*	*	*	-0.00204			-0.00204	*	no	0.654	-
	TCB	292	14.12	*	no						*			
37 PCB 45/51		290	NotFnd	*	*	*	-0.0021			-0.0021	*	no	0.633	-
	TCB	292	14.49	*	no						*			
38 PCB 46		290	NotFnd	*	*	*	-0.0024			-0.0024	*	no	0.554	-
	TCB	292	14.64	*	no						*			
39 PCB 52		290	NotFnd	*	*	*	-0.0016			-0.0016	*	no	0.834	-
	TCB	292	15.38	*	no						*			
40 PCB 73		290	NotFnd	*	*	*	-0.00164			-0.00164	*	no	0.813	-
	TCB	292	15.46	*	no						*			
41 PCB 43		290	NotFnd	*	*	*	-0.00258			-0.00258	*	no	0.516	-
	TCB	292	15.53	*	no						*			
42 PCB 69/49		290	NotFnd	*	*	*	-0.00156			-0.00156	*	no	0.851	-
	TCB	292	15.64	*	no						*			

43 PCB 48	290	NotFnd	*	*	*	-0.00198			-0.00198	*	no	0.673	-	
	TCB 292	15.84	*	no						*				
44 PCB 44/47/65	290	NotFnd	*	*	*	-0.0017			-0.0017	*	no	0.783	-	
	TCB 292	15.98	*	no						*				
45 PCB 59/62/75	290	NotFnd	*	*	*	-0.00131			-0.00131	*	no	1.017	-	
	TCB 292	16.17	*	no						*				
46 PCB 42	290	NotFnd	*	*	*	-0.00195			-0.00195	*	no	0.682	-	
	TCB 292	16.30	*	no						*				
47 PCB 40/41/71	290	NotFnd	*	*	*	-0.00184			-0.00184	*	no	0.724	-	
	TCB 292	16.58	*	no						*				
48 PCB 64	290	NotFnd	*	*	*	-0.00144			-0.00144	*	no	0.922	-	
	TCB 292	16.71	*	no						*				
49 PCB 72	290	NotFnd	*	*	*	-0.00137			-0.00137	*	no	1.304	-	
	TCB 292	17.19	*	no						*				
50 PCB 68	290	NotFnd	*	*	*	-0.00147			-0.00147	*	no	1.22	-	
	TCB 292	17.40	*	no						*				
51 PCB 57	290	NotFnd	*	*	*	-0.00147			-0.00147	*	no	1.221	-	
	TCB 292	17.68	*	no						*				
52 PCB 58	290	NotFnd	*	*	*	-0.00173			-0.00173	*	no	1.035	-	
	TCB 292	17.83	*	no						*				
53 PCB 67	290	NotFnd	*	*	*	-0.00133			-0.00133	*	no	1.347	-	
	TCB 292	17.94	*	no						*				
54 PCB 63	290	NotFnd	*	*	*	-0.00143			-0.00143	*	no	1.253	-	
	TCB 292	18.13	*	no						*				
55 PCB 61/70/74/76	290	NotFnd	*	*	*	-0.00161			-0.00161	*	no	1.109	-	
	TCB 292	18.35	*	no						*				
56 PCB 66	290	NotFnd	*	*	*	-0.00144			-0.00144	*	no	1.241	-	
	TCB 292	18.58	*	no						*				
57 PCB 55	290	NotFnd	*	*	*	-0.00179			-0.00179	*	no	0.998	-	
	TCB 292	18.71	*	no						*				
58 PCB 56	290	NotFnd	*	*	*	-0.0018			-0.0018	*	no	0.995	-	
	TCB 292	19.05	*	no						*				
59 PCB 60	290	NotFnd	*	*	*	-0.00181			-0.00181	*	no	0.988	-	
	TCB 292	19.22	*	no						*				
60 PCB 80	290	NotFnd	*	*	*	-0.00146			-0.00146	*	no	1.224	-	
	TCB 292	19.48	*	no						*				
61 PCB 79	290	NotFnd	*	*	*	-0.00122			-0.00122	*	no	1.462	-	
	TCB 292	20.61	*	no						*				
62 PCB 78	290	NotFnd	*	*	*	-0.00139			-0.00139	*	no	1.287	-	
	TCB 292	21.06	*	no						*				
63 PCB 81	**290**	**21.42**	**66670**	**0.74**	**156361**	**0.099467**	**PCB 81 % Rec = 101**		-0.00174	165	no	1.027	-	
	TCB 292	21.43	89691	yes						167				
64 PCB 77	**290**	**21.87**	**64853**	**0.75**	**151475**	**0.096933**	**PCB 77 % Rec = 99**		-0.00166	155	no	1.077	-	
	TCB 292	21.87	86622	yes						158				
65 PCB 104	**326**	**15.92**	**50035**	**1.59**	**81557**	**0.100825**	**PCB 104 % Rec = 103**		-0.00037	674	no	1.094	-	
	PeCB 328	15.94	31523	yes						662				
66 PCB 96	326	NotFnd	*	*	*	-0.00047			-0.00047	*	no	0.874	-	
	PeCB 328	16.16	*	no						*				
67 PCB 103	326	NotFnd	*	*	*	-0.00239			-0.00239	*	no	0.739	-	
	PeCB 328	17.33	*	no						*				
68 PCB 94	326	NotFnd	*	*	*	-0.00327			-0.00327	*	no	0.54	-	
	PeCB 328	17.47	*	no						*				
69 PCB 95	326	NotFnd	*	*	*	-0.00259			-0.00259	*	no	0.683	-	
	PeCB 328	17.77	*	no						*				
70 PCB 100/93/102/98	326	NotFnd	*	*	*	-0.00285			-0.00285	*	no	0.619	-	
	PeCB 328	17.93	*	no						*				
71 PCB 88/91	326	NotFnd	*	*	*	-0.00283			-0.00283	*	no	0.625	-	
	PeCB 328	18.31	*	no						*				
72 PCB 84	326	NotFnd	*	*	*	-0.00331			-0.00331	*	no	0.534	-	
	PeCB 328	18.50	*	no						*				
73 PCB 89	326	NotFnd	*	*	*	-0.00303			-0.00303	*	no	0.582	-	
	PeCB 328	18.84	*	no						*				
74 PCB 121	326	NotFnd	*	*	*	-0.00232			-0.00232	*	no	0.761	-	
	PeCB 328	19.08	*	no						*				
75 PCB 92	326	NotFnd	*	*	*	-0.00295			-0.00295	*	no	0.598	-	
	PeCB 328	19.35	*	no						*				
76 PCB 113/90/101	326	NotFnd	*	*	*	-0.00249			-0.00249	*	no	0.71	-	
	PeCB 328	19.76	*	no						*				
77 PCB 83/99	326	NotFnd	*	*	*	-0.00284			-0.00284	*	no	0.623	-	
	PeCB 328	20.22	*	no						*				
78 PCB 112	326	NotFnd	*	*	*	-0.00216			-0.00216	*	no	0.819	-	
	PeCB 328	20.33	*	no						*				
79 PCB 109/119/86/97/125/	326	NotFnd	*	*	*	-0.00243			-0.00243	*	no	0.726	-	
	PeCB 328	20.62	*	no						*				
80 PCB 117/116/85	326	NotFnd	*	*	*	-0.00222			-0.00222	*	no	0.796	-	
	PeCB 328	21.23	*	no						*				
81 PCB 110/115	326	NotFnd	*	*	*	-0.00236			-0.00236	*	no	0.75	-	
	PeCB 328	21.32	*	no						*				
82 PCB 82	326	NotFnd	*	*	*	-0.00313			-0.00313	*	no	0.564	-	
	PeCB 328	21.59	*	no						*				
83 PCB 111	326	NotFnd	*	*	*	-0.00218			-0.00218	*	no	0.809	-	
	PeCB 328	21.85	*	no						*				
84 PCB 120	326	NotFnd	*	*	*	-0.00186			-0.00186	*	no	0.951	-	
	PeCB 328	22.25	*	no						*				
85 PCB 108/124	326	NotFnd	*	*	*	-0.00067			-0.00067	*	no	1.122	-	
	PeCB 328	23.21	*	no						*				
86 PCB 107	326	NotFnd	*	*	*	-0.00066			-0.00066	*	no	1.147	-	
	PeCB 328	23.40	*	no						*				
87 PCB 123	**326**	**23.51**	**78179**	**1.56**	**128264**	**0.097513**	**PCB 123 % Rec = 100**		-0.00084	348	no	0.894	-	
	PeCB 328	23.51	50085	yes						342				
88 PCB 106	326	NotFnd	*	*	*	-0.00062			-0.00062	*	no	1.218	-	
	PeCB 328	23.63	*	no						*				
89 PCB 118	**326**	**23.79**	**90077**	**1.54**	**148681**	**0.104515**	**PCB 118 % Rec = 107**		-0.00077	405	no	0.981	-	
	PeCB 328	23.80	58604	yes						402				

90 PCB 122		326	NotFnd	*	*	*	-0.0007			-0.0007	*	no	1.079	-
	PeCB	328	24.08	*	no						*			
91 PCB 114		**326**	**24.27**	**79709**	**1.59**	**129982**	**0.095781**	**PCB 114 % Rec = 98**		-0.00075	347	no	1.01	-
	PeCB	328	24.28	50273	yes						337			
92 PCB 105		**326**	**24.84**	**81248**	**1.55**	**133511**	**0.098526**	**PCB 105 % Rec = 101**		-0.00077	344	no	0.977	-
	PeCB	328	24.83	52263	yes						347			
93 PCB 127		326	NotFnd	*	*	*	-0.00061			-0.00061	*	no	1.23	-
	PeCB	328	26.20	*	no						*			
94 PCB 126		**326**	**27.71**	**76851**	**1.57**	**125695**	**0.097247**	**PCB 126 % Rec = 99**		-0.00077	298	no	0.977	-
	PeCB	328	27.72	48843	yes						292			
95 PCB 155		**360**	**19.63**	**46895**	**1.32**	**82511**	**0.10191**	**PCB 155 % Rec = 104**		-0.00054	491	no	0.997	-
	HxCB	362	19.63	35616	yes						453			
96 PCB 152		360	NotFnd	*	*	*	-0.00066			-0.00066	*	no	0.813	-
	HxCB	362	19.78	*	no						*			
97 PCB 150		360	NotFnd	*	*	*	-0.00083			-0.00083	*	no	0.65	-
	HxCB	362	19.88	*	no						*			
98 PCB 136		360	NotFnd	*	*	*	-0.00071			-0.00071	*	no	0.761	-
	HxCB	362	20.18	*	no						*			
99 PCB 145		360	NotFnd	*	*	*	-0.00081			-0.00081	*	no	0.662	-
	HxCB	362	20.41	*	no						*			
100 PCB 148		360	NotFnd	*	*	*	-0.00098			-0.00098	*	no	0.551	-
	HxCB	362	21.55	*	no						*			
101 PCB 151/135		360	NotFnd	*	*	*	-0.00104			-0.00104	*	no	0.519	-
	HxCB	362	22.04	*	no						*			
102 PCB 154		360	NotFnd	*	*	*	-0.00087			-0.00087	*	no	0.618	-
	HxCB	362	22.22	*	no						*			
103 PCB 144		360	NotFnd	*	*	*	-0.00096			-0.00096	*	no	0.562	-
	HxCB	362	22.51	*	no						*			
104 PCB 147/149		360	NotFnd	*	*	*	-0.0027			-0.0027	*	no	0.662	-
	HxCB	362	22.80	*	no						*			
105 PCB 134/143		360	NotFnd	*	*	*	-0.00305			-0.00305	*	no	0.586	-
	HxCB	362	23.06	*	no						*			
106 PCB 139/140		360	NotFnd	*	*	*	-0.00263			-0.00263	*	no	0.68	-
	HxCB	362	23.31	*	no						*			
107 PCB 131		360	NotFnd	*	*	*	-0.00333			-0.00333	*	no	0.537	-
	HxCB	362	23.49	*	no						*			
108 PCB 142		360	NotFnd	*	*	*	-0.00286			-0.00286	*	no	0.626	-
	HxCB	362	23.65	*	no						*			
109 PCB 132		360	NotFnd	*	*	*	-0.00319			-0.00319	*	no	0.561	-
	HxCB	362	23.88	*	no						*			
110 PCB 133		360	NotFnd	*	*	*	-0.00272			-0.00272	*	no	0.657	-
	HxCB	362	24.31	*	no						*			
111 PCB 165		360	NotFnd	*	*	*	-0.00234			-0.00234	*	no	0.765	-
	HxCB	362	24.66	*	no						*			
112 PCB 146		360	NotFnd	*	*	*	-0.00254			-0.00254	*	no	0.705	-
	HxCB	362	24.87	*	no						*			
113 PCB 161		360	NotFnd	*	*	*	-0.00185			-0.00185	*	no	0.97	-
	HxCB	362	25.01	*	no						*			
114 PCB 153/168		360	NotFnd	*	*	*	-0.0021			-0.0021	*	no	0.852	-
	HxCB	362	25.46	*	no						*			
115 PCB 141		360	NotFnd	*	*	*	-0.00263			-0.00263	*	no	0.681	-
	HxCB	362	25.60	*	no						*			
116 PCB 130		360	NotFnd	*	*	*	-0.0029			-0.0029	*	no	0.617	-
	HxCB	362	25.99	*	no						*			
117 PCB 137		360	NotFnd	*	*	*	-0.00295			-0.00295	*	no	0.607	-
	HxCB	362	26.19	*	no						*			
118 PCB 164		360	NotFnd	*	*	*	-0.00196			-0.00196	*	no	0.913	-
	HxCB	362	26.28	*	no						*			
119 PCB 138/163/129		360	NotFnd	*	*	*	-0.00254			-0.00254	*	no	0.705	-
	HxCB	362	26.61	*	no						*			
120 PCB 160		360	NotFnd	*	*	*	-0.00218			-0.00218	*	no	0.822	-
	HxCB	362	26.78	*	no						*			
121 PCB 158		360	NotFnd	*	*	*	-0.00178			-0.00178	*	no	1.004	-
	HxCB	362	26.96	*	no						*			
122 PCB 128/166		360	NotFnd	*	*	*	-0.00231			-0.00231	*	no	0.774	-
	HxCB	362	27.79	*	no						*			
123 PCB 159		360	NotFnd	*	*	*	-0.00081			-0.00081	*	no	1.179	-
	HxCB	362	28.76	*	no						*			
124 PCB 162		360	NotFnd	*	*	*	-0.00087			-0.00087	*	no	1.101	-
	HxCB	362	29.06	*	no						*			
125 PCB 167		**360**	**29.52**	**78935**	**1.25**	**141852**	**0.097332**	**PCB 167 % Rec = 99**		-0.00101	321	no	0.946	-
	HxCB	362	29.53	62916	yes						320			
126 PCB 156/157		**360**	**30.70**	**159617**	**1.27**	**285609**	**0.197738**	**B 156/157 % Rec = 101**		-0.00094	545	no	1.017	-
	HxCB	362	30.69	125992	yes						532			
127 PCB 169		**360**	**34.10**	**49827**	**1.25**	**89722**	**0.100829**	**PCB 169 % Rec = 103**		-0.001	186	no	0.954	-
	HxCB	362	34.11	39895	yes						185			
128 PCB 188		**394**	**24.22**	**42741**	**1.07**	**82585**	**0.096717**	**PCB 188 % Rec = 99**		-0.00172	144	no	1.012	-
	HpCB	396	24.23	39844	yes						139			
129 PCB 179		394	NotFnd	*	*	*	-0.00166			-0.00166	*	no	1.047	-
	HpCB	396	24.52	*	no						*			
130 PCB 184		394	NotFnd	*	*	*	-0.00181			-0.00181	*	no	0.961	-
	HpCB	396	25.00	*	no						*			
131 PCB 176		394	NotFnd	*	*	*	-0.00169			-0.00169	*	no	1.027	-
	HpCB	396	25.32	*	no						*			
132 PCB 186		394	NotFnd	*	*	*	-0.00193			-0.00193	*	no	0.899	-
	HpCB	396	25.75	*	no						*			
133 PCB 178		394	NotFnd	*	*	*	-0.00241			-0.00241	*	no	0.722	-
	HpCB	396	27.01	*	no						*			
134 PCB 175		394	NotFnd	*	*	*	-0.00231			-0.00231	*	no	0.753	-
	HpCB	396	27.62	*	no						*			
135 PCB 187		**394**	**27.87**	**33518**	**1.05**	**65495**	**0.093217**	**PCB 187 % Rec = 95**		-0.0024	107	no	0.723	-
	HpCB	396	27.88	31978	yes						106			
136 PCB 182		**394**	**28.07**	**32024**	**1.05**	**62423**	**0.086**	**PCB 182 % Rec = 88**		-0.00233	100	no	0.747	-
	HpCB	396	28.10	30399	yes						100			

137 PCB 183	394	NotFnd	*	*	*	-0.0021			-0.0021	*	no	1.162	-	
	HpCB 396	28.50	*	no						*				
138 PCB 185	394	NotFnd	*	*	*	-0.00286			-0.00286	*	no	0.851	-	
	HpCB 396	28.56	*	no						*				
139 PCB 174	394	NotFnd	*	*	*	-0.00251			-0.00251	*	no	0.97	-	
	HpCB 396	28.72	*	no						*				
140 PCB 177	394	NotFnd	*	*	*	-0.00258			-0.00258	*	no	0.943	-	
	HpCB 396	29.14	*	no						*				
141 PCB 181	394	NotFnd	*	*	*	-0.00273			-0.00273	*	no	0.892	-	
	HpCB 396	29.56	*	no						*				
142 PCB 171/173	394	NotFnd	*	*	*	-0.00257			-0.00257	*	no	0.948	-	
	HpCB 396	29.78	*	no						*				
143 PCB 172	394	NotFnd	*	*	*	-0.00256			-0.00256	*	no	0.95	-	
	HpCB 396	31.42	*	no						*				
144 PCB 192	394	NotFnd	*	*	*	-0.00225			-0.00225	*	no	1.085	-	
	HpCB 396	31.74	*	no						*				
145 PCB 193/180	**394**	**32.13**	**48846**	**1.09**	**93717**	**0.083822**	**PCB 193/180 % Rec = 86**		-0.00176	111	no	1.383	-	
	HpCB 396	32.06	44871	yes						107				
146 PCB 191	394	NotFnd	*	*	*	-0.0018			-0.0018	*	no	1.352	-	
	HpCB 396	32.48	*	no						*				
147 PCB 170	**394**	**33.45**	**46981**	**1.12**	**88887**	**0.096029**	**PCB 170 % Rec = 98**		-0.00192	103	no	1.271	-	
	HpCB 396	33.45	41906	yes						98				
148 PCB 190	394	NotFnd	*	*	*	-0.00181			-0.00181	*	no	1.345	-	
	HpCB 396	34.02	*	no						*				
149 PCB 189	**394**	**36.87**	**67137**	**1.05**	**131132**	**0.092353**	**PCB 189 % Rec = 94**		-0.00168	137	no	0.944	-	
	HpCB 396	36.88	63995	yes						134				
150 PCB 202	**428**	**29.26**	**35386**	**0.9**	**74850**	**0.099331**	**PCB 202 % Rec = 101**		-0.0016	175	no	0.988	-	
	OcCB 430	29.26	39464	yes						179				
151 PCB 201	428	NotFnd	*	*	*	-0.00159			-0.00159	*	no	0.997	-	
	OcCB 430	30.16	*	no						*				
152 PCB 204	428	NotFnd	*	*	*	-0.00165			-0.00165	*	no	0.962	-	
	OcCB 430	30.87	*	no						*				
153 PCB 197	428	NotFnd	*	*	*	-0.00181			-0.00181	*	no	0.876	-	
	OcCB 430	31.10	*	no						*				
154 PCB 200	428	NotFnd	*	*	*	-0.00157			-0.00157	*	no	1.006	-	
	OcCB 430	31.22	*	no						*				
155 PCB 198/199	428	NotFnd	*	*	*	-0.00242			-0.00242	*	no	0.654	-	
	OcCB 430	34.17	*	no						*				
156 PCB 196	428	NotFnd	*	*	*	-0.00235			-0.00235	*	no	0.674	-	
	OcCB 430	34.95	*	no						*				
157 PCB 203	428	NotFnd	*	*	*	-0.0024			-0.0024	*	no	0.659	-	
	OcCB 430	35.14	*	no						*				
158 PCB 195	428	NotFnd	*	*	*	-0.00361			-0.00361	*	no	1.005	-	
	OcCB 430	36.62	*	no						*				
159 PCB 194	428	NotFnd	*	*	*	-0.00333			-0.00333	*	no	1.091	-	
	OcCB 430	39.24	*	no						*				
160 PCB 205	**428**	**39.78**	**45957**	**0.88**	**98395**	**0.0953**	**PCB 205 % Rec = 97**		-0.00333	73	no	1.091	-	
	OcCB 430	39.80	52438	yes						73				
161 PCB 208	**462**	**36.32**	**30598**	**0.77**	**70288**	**0.099561**	**PCB 208 % Rec = 102**		-0.00237	104	no	1.023	-	
	NoCB 464	36.33	39690	yes						106				
162 PCB 207	462	NotFnd	*	*	*	-0.00184			-0.00184	*	no	1.32	-	
	NoCB 464	37.35	*	no						*				
163 PCB 206	**462**	**41.75**	**21703**	**0.77**	**49908**	**0.093779**	**PCB 206 % Rec = 96**		-0.00236	70	yes	1.027	-	
	NoCB 464	41.73	28205	yes						71				
164 PCB 209	**498**	**43.58**	**44582**	**1.23**	**80973**	**0.151285**	**PCB 209 % Rec = 154**		-0.00424	94	no	1.04	-	
	DCB 500	43.56	36392	yes						88				
165 PCB 1L	**200**	**8.98**	**173474**	**3.33**	**225635**	**0.137848**			0.001	3914	no	0.824	70	
	202	8.97	52160	yes						318				
166 PCB 3L	**200**	**10.17**	**169781**	**3.51**	**218090**	**0.128772**			0	3983	no	0.852	66	
	202	10.16	48310	yes						311				
167 PCB 4L	**234**	**10.28**	**68880**	**1.68**	**109939**	**0.101966**			0	3933	no	0.543	52	
	236	10.28	41058	yes						844				
168 PCB 15L	**234**	**12.93**	**207907**	**1.64**	**334861**	**0.156868**			0	1903	no	1.074	80	
	236	12.91	126953	yes						4456				
169 PCB 19L	**268**	**11.68**	**66047**	**1.07**	**127835**	**0.111265**			0.001	296	no	0.578	57	
	270	11.66	61789	yes						405				
170 PCB 37L	**268**	**16.68**	**180418**	**1.05**	**352933**	**0.187247**			0.001	484	no	1.987	96	
	270	16.67	172515	yes						579				
171 PCB 54L	**302**	**13.06**	**66286**	**0.78**	**151412**	**0.123009**			0	1019	no	1.297	63	
	304	13.06	85126	yes						3369				
172 PCB 81L	**302**	**21.41**	**131190**	**0.78**	**300010**	**0.181945**			0	1278	no	1.738	93	
	304	21.39	168820	yes						1655				
173 PCB 77L	**302**	**21.85**	**126809**	**0.81**	**284314**	**0.178678**			0	1230	no	1.677	91	
	304	21.82	157506	yes						1516				
174 PCB 104L	**338**	**15.92**	**89252**	**1.61**	**144871**	**0.149109**			0	5562	no	1.156	76	
	340	15.93	55619	yes						4553				
175 PCB 123L	**338**	**23.49**	**178031**	**1.62**	**288220**	**0.177095**			0	2263	no	1.936	90	
	340	23.50	110189	yes						1826				
176 PCB 118L	**338**	**23.77**	**176232**	**1.63**	**284077**	**0.177303**			0	2215	no	1.906	90	
	340	23.76	107844	yes						1765				
177 PCB 114L	**338**	**24.26**	**164918**	**1.68**	**263278**	**0.176645**			0	2049	no	1.773	90	
	340	24.25	98360	yes						1560				
178 PCB 105L	**338**	**24.81**	**167326**	**1.6**	**271974**	**0.177516**			0	2048	no	1.822	91	
	340	24.81	104648	yes						1708				
179 PCB 126L	**338**	**27.69**	**159965**	**1.61**	**259394**	**0.177785**			0	1802	no	1.735	91	
	340	27.67	99429	yes						1461				
180 PCB 155L	**372**	**19.61**	**89705**	**1.29**	**159229**	**0.136145**			0	6930	no	1.404	69	
	374	19.61	69524	yes						6752				
181 PCB 167L	**372**	**29.50**	**170654**	**1.3**	**301990**	**0.171767**			0	2053	no	2.11	88	
	374	29.50	131336	yes						1463				
182 PCB 156L/157L	**372**	**30.66**	**313770**	**1.29**	**556675**	**0.347772**			0	3108	no	1.921	89	
	374	30.69	242905	yes						2225				
183 PCB 169L	**372**	**34.08**	**102270**	**1.27**	**182731**	**0.116255**			0	1159	no	1.886	59	
	374	34.06	80461	yes						820				

184 PCB 188L	**406**	**24.20**	**85443**	**1.07**	**165383**	**0.149293**	0	5101	no	1.329	76			
	408	24.21	79940	yes				5129						
185 PCB 180L	**406**	**32.09**	**82362**	**1.08**	**158498**	**0.169095**	0	3247	no	1.349	86			
	408	32.11	76136	yes				4177						
186 PCB 170L	**406**	**33.42**	**74242**	**1.08**	**142740**	**0.174017**	0	2879	no	1.18	89			
	408	33.44	68498	yes				3686						
187 PCB 189L	**406**	**36.84**	**151801**	**1.06**	**294881**	**0.19666**	0	2933	no	2.157	100			
	408	36.85	143081	yes				3545						
188 PCB 202L	**440**	**29.23**	**71285**	**0.91**	**149548**	**0.151579**	0	6802	no	1.419	77			
	442	29.29	78263	yes				3773						
189 PCB 205L	**440**	**39.76**	**89430**	**0.93**	**185554**	**0.174335**	0	2422	no	1.531	89			
	442	39.75	96124	yes				2254						
190 PCB 208L	**474**	**36.29**	**59074**	**0.78**	**135196**	**0.170708**	0	2429	no	1.139	87			
	476	36.30	76122	yes				2955						
191 PCB 206L	**474**	**41.73**	**46167**	**0.83**	**101603**	**0.192455**	0	1784	yes	0.76	98			
	476	41.75	55436	yes				2094						
192 PCB 209L	**510**	**43.56**	**55120**	**1.21**	**100882**	**0.200381**	0	4582	no	0.724	102			
	512	43.56	45761	yes				2946						
193 PCB 28L	**268**	**14.41**	**219367**	**1.05**	**427723**	**0.221057**	0.001	643	no	2.039	113			
PCB Cleanup Standard	270	14.41	208355	yes				774						
194 PCB 111L	**338**	**21.83**	**139666**	**1.67**	**223517**	**0.197959**	0	3540	no	1.343	101			
PCB Cleanup Standard	340	21.84	83851	yes				2844						
195 PCB 178L	**406**	**26.98**	**61022**	**1.05**	**118877**	**0.194643**	0	3530	no	0.733	99			
PCB Cleanup Standard	408	26.97	57855	yes				3529						
196 PCB 31L	268	NotFnd	*	*	*		0.001		no	1.934				
PCB Audit Standard	270	14.24	*	no										
197 PCB 95L	338	NotFnd	*	*	*		0		no	0.946				
PCB Audit Standard	340	17.73	*	no										
198 PCB 153L	372	25.41	2655	1.5	4422	0.004332	0.001	56	no	1.225	2			
PCB Audit Standard	374	25.40	1767	no				15						
199 PCB 9L	**234**	**11.18**	**1199864**	**1.61**	**1947162**	**9.794257**	-	11898	no	-	-			
PCB Recovery Standard	236	11.19	747298	yes				28482						
200 PCB 52L	**302**	**15.35**	**414489**	**0.8**	**929807**	**7.228717**	-	5133	no	-	-			
PCB Recovery Standard	304	15.36	515317	yes				8082						
201 PCB 101L	**338**	**19.77**	**507274**	**1.6**	**823875**	**7.360992**	-	13565	no	-	-			
PCB Recovery Standard	340	19.76	316601	yes				11402						
202 PCB 138L	**372**	**26.57**	**461424**	**1.3**	**816611**	**7.44383**	-	9837	no	-	-			
PCB Recovery Standard	374	26.56	355187	yes				2891						
203 PCB 194L	**440**	**39.21**	**328128**	**0.93**	**681143**	**6.182559**	-	8547	no	-	-			
PCB Recovery Standard	442	39.17	353016	yes				8109						

Chlorobiphenyls	0.198308	2	-0.00053
Dichlorobiphenyls	0.214546	2	-0.0048
Trichlorobiphenyls	0.417031	4	-0.00425
Tetrachlorobiphenyls	0.294675	3	-0.00258
Pentachlorobiphenyls	0.594407	6	-0.00331
Hexachlorobiphenyls	0.497809	4	-0.00333
Heptachlorobiphenyls	0.548138	6	-0.00286
Octachlorobiphenyls	0.194631	2	-0.00361
Nonachlorobiphenyls	0.19334	2	-0.00237
Decachlorobiphenyl	0.151285	1	-0.00424
PCB (total)	3.30417		

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Printed: February 19, 2016 04:26:58 PM Eastern Standard Time

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Description: SPIKE
Vial: 3
Date: 18-FEB-2016
Time: 20:07:44

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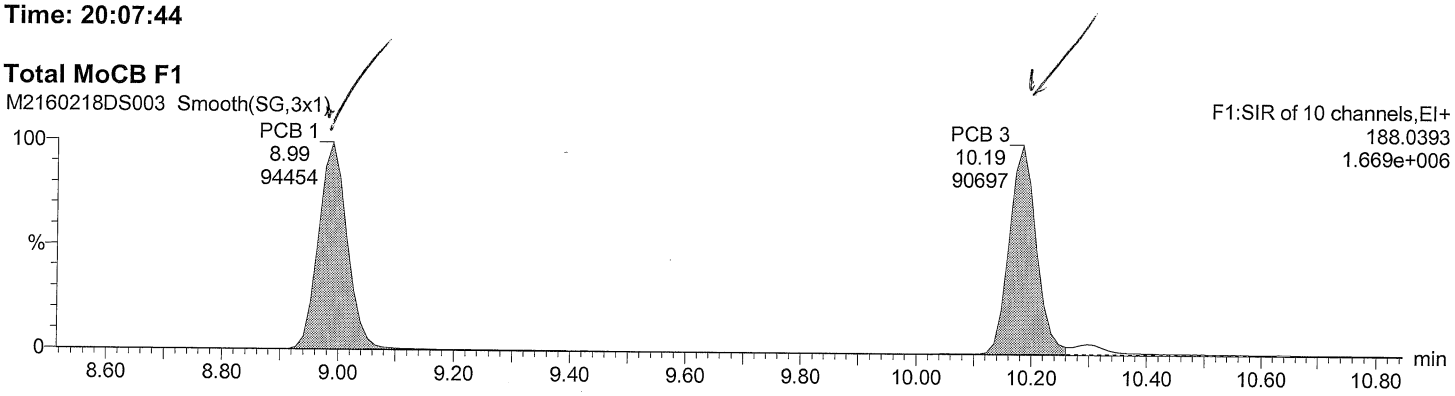

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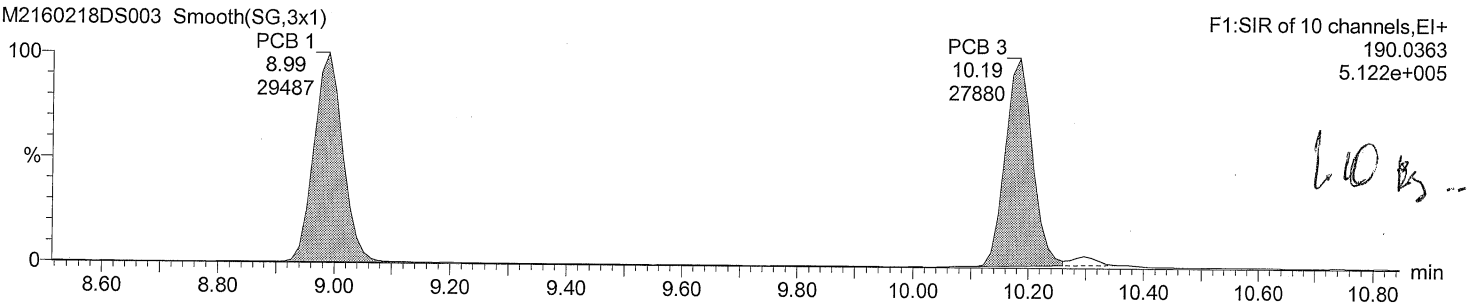

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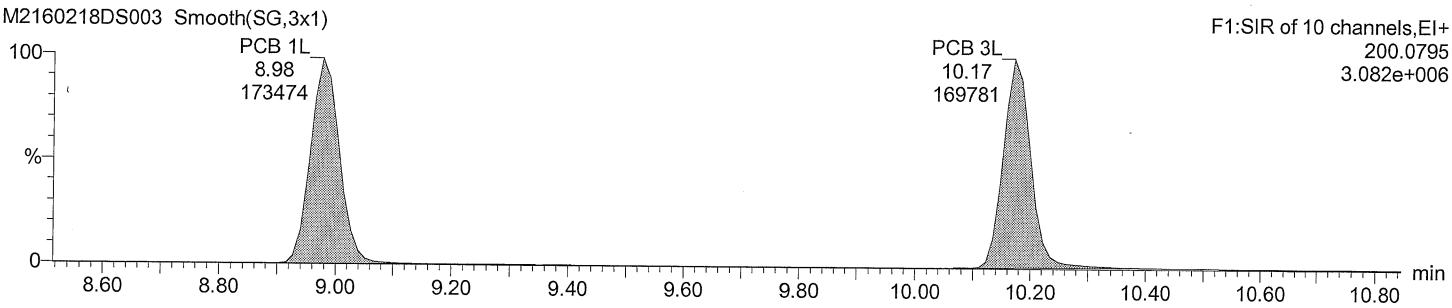

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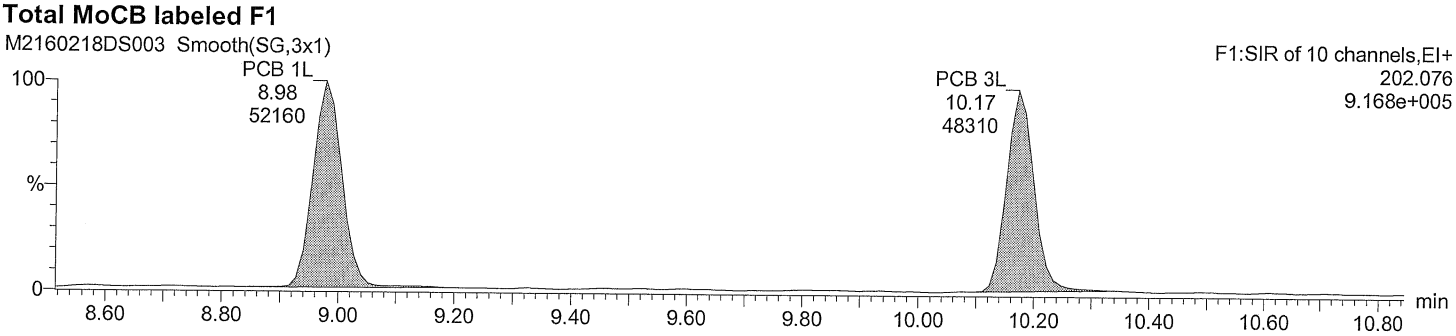

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Time: 20:07:44

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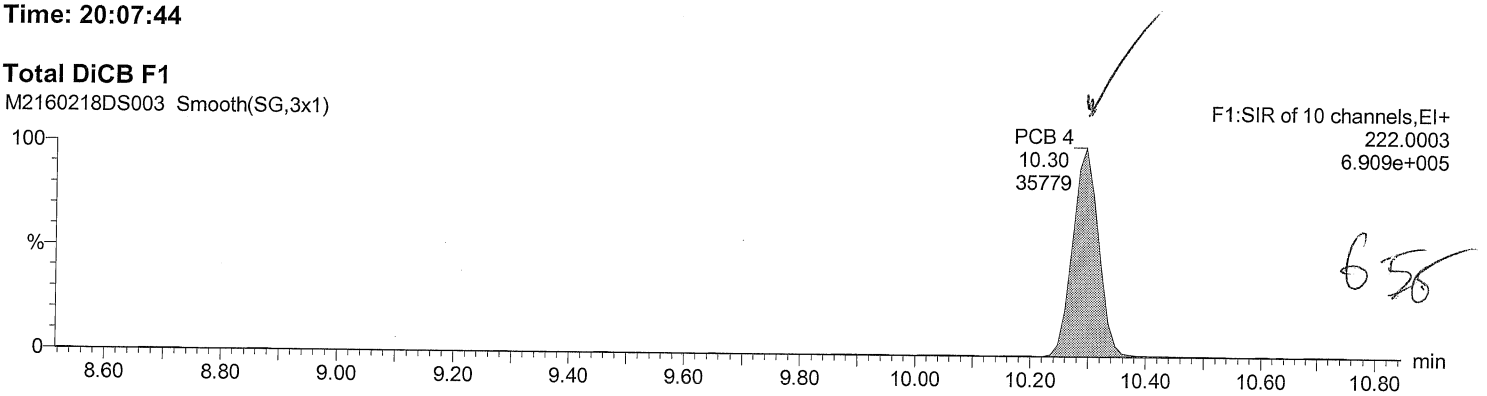

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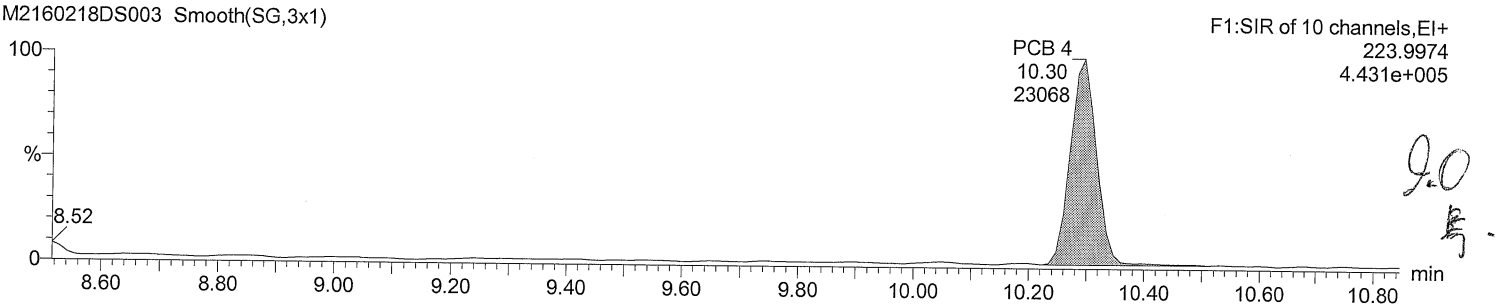

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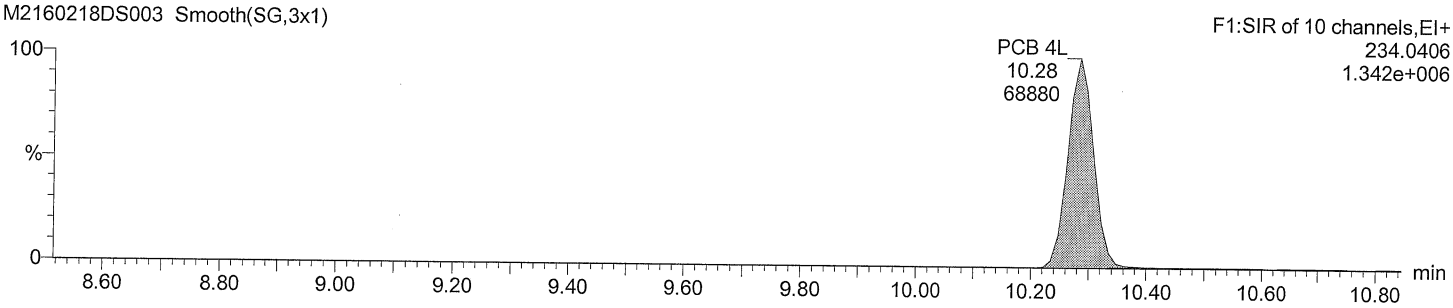

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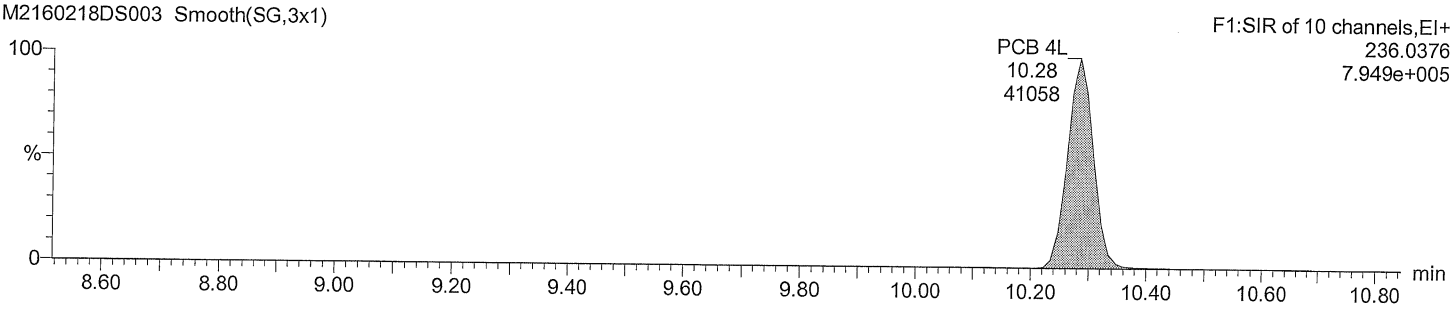

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Time: 20:07:44

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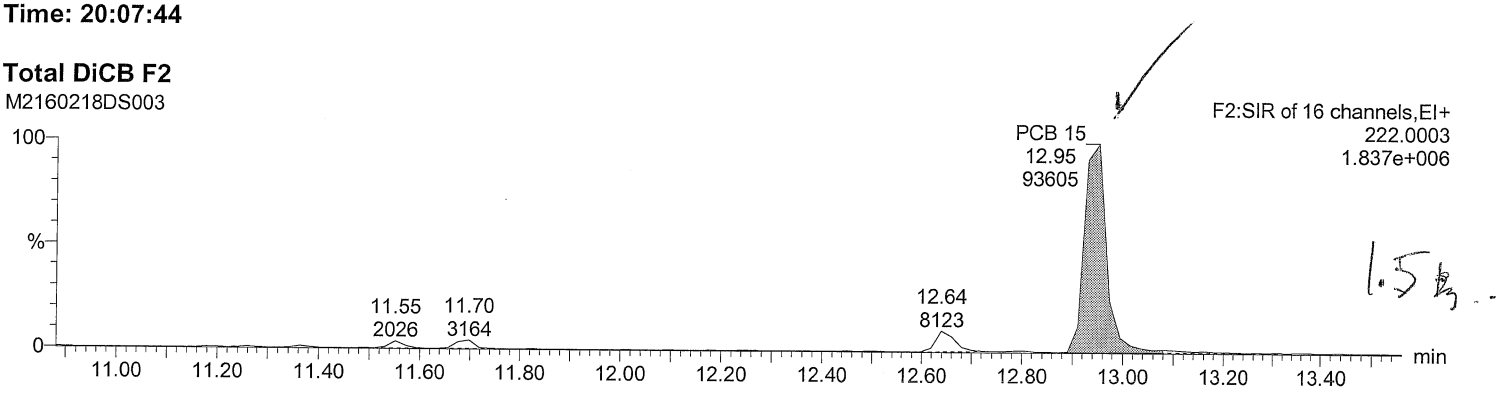

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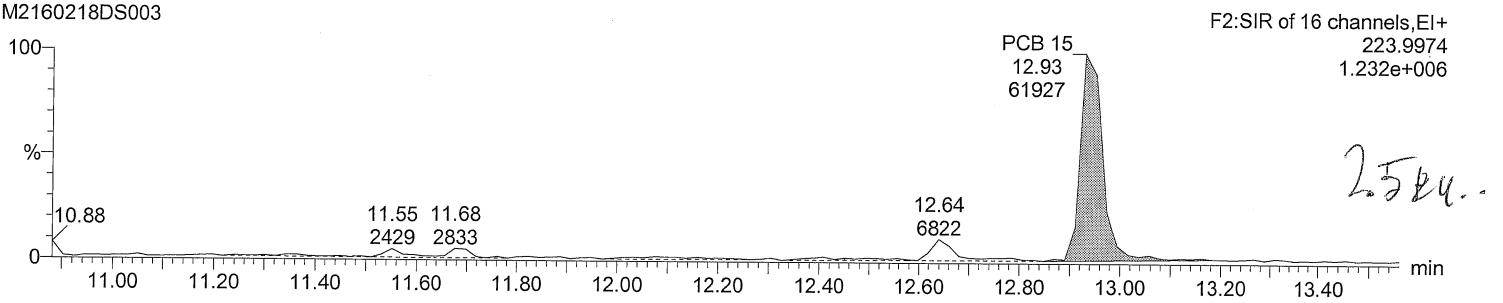

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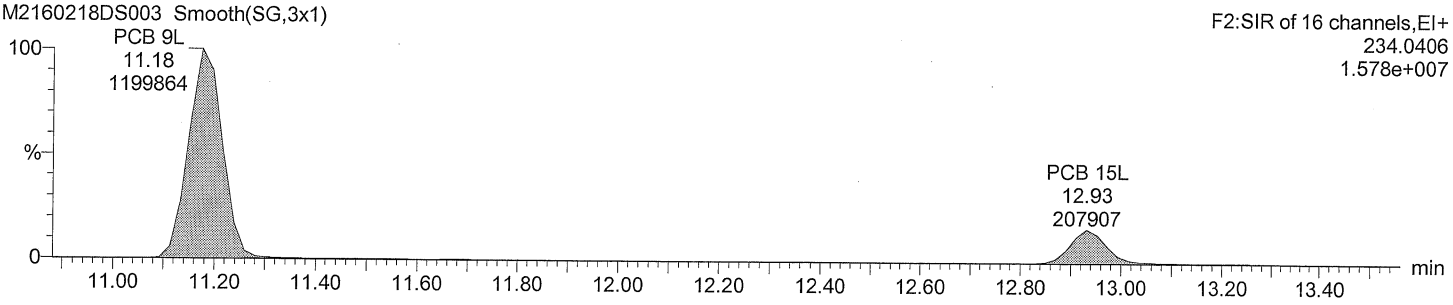

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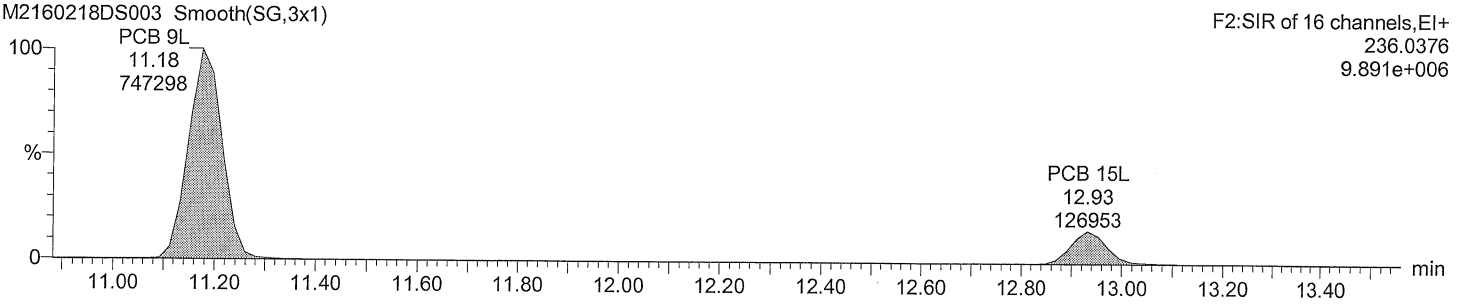

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Description: SPIKE
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Date: 18-FEB-2016
Time: 20:07:44

Total TriCB F2
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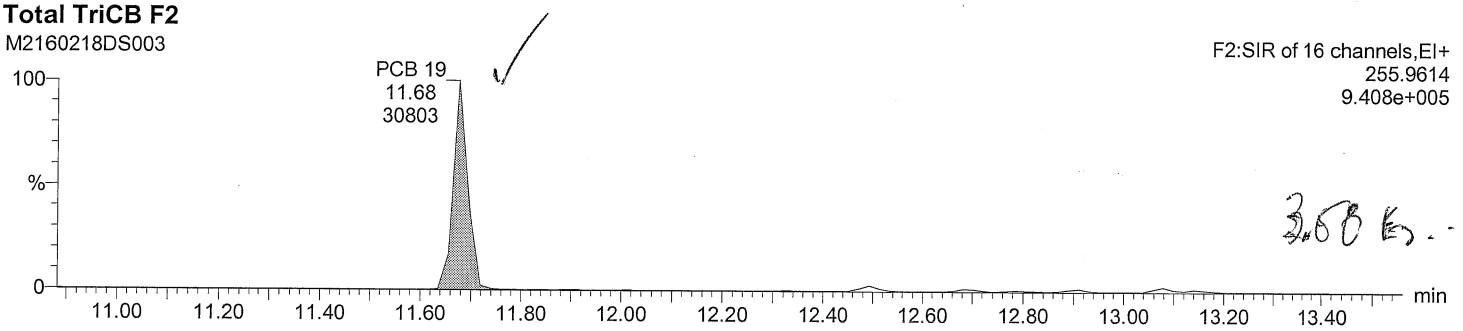

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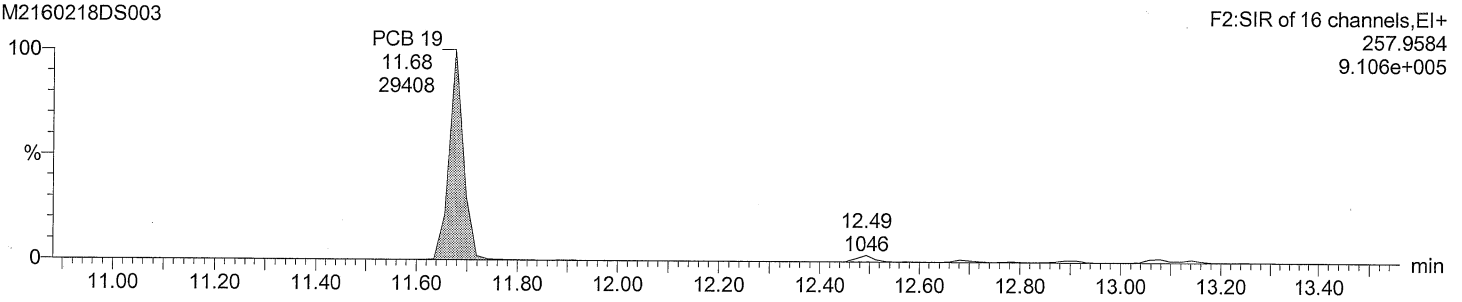

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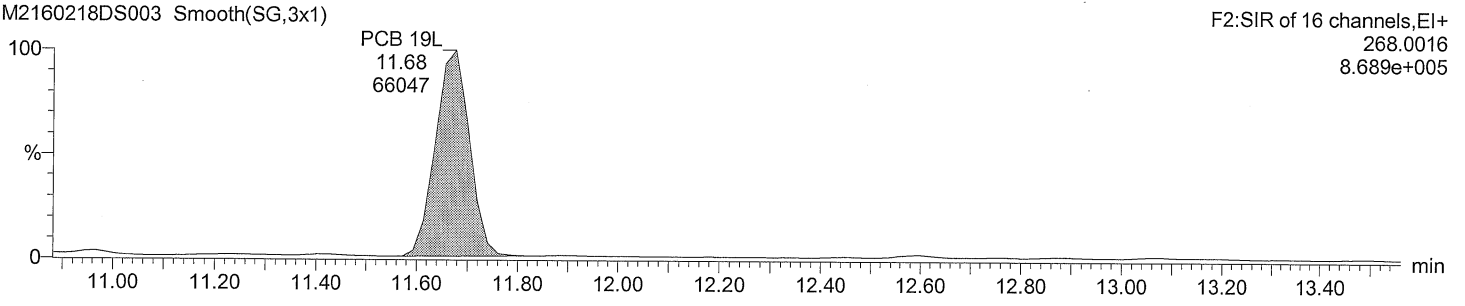

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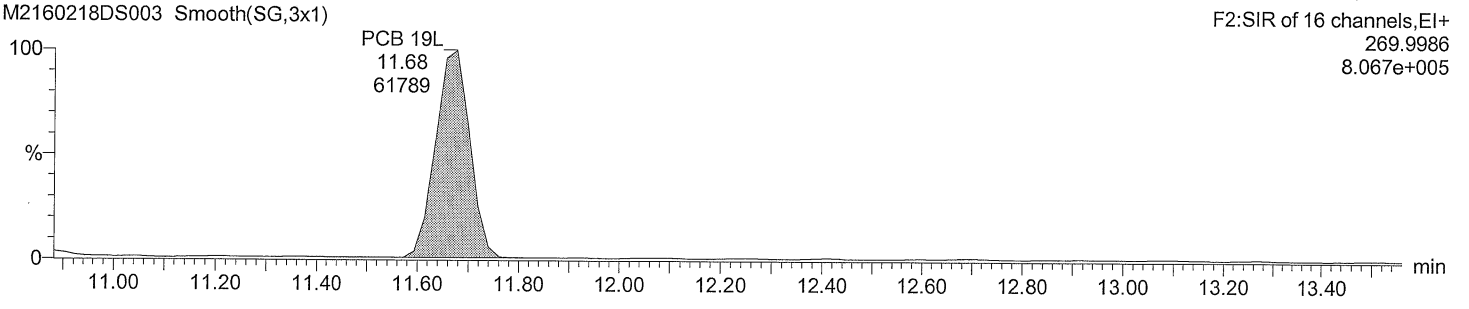

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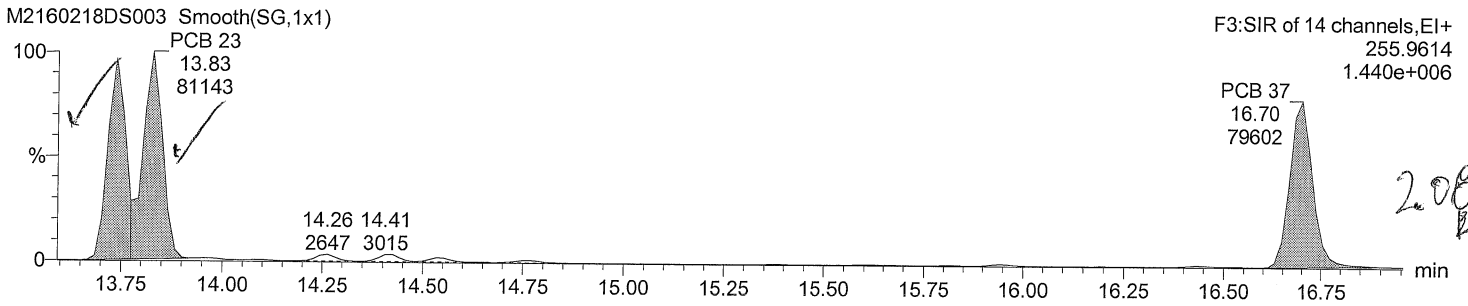
Description: SPIKE
Vial: 3
Date: 18-FEB-2016
Time: 20:07:44

Total TriCB F3



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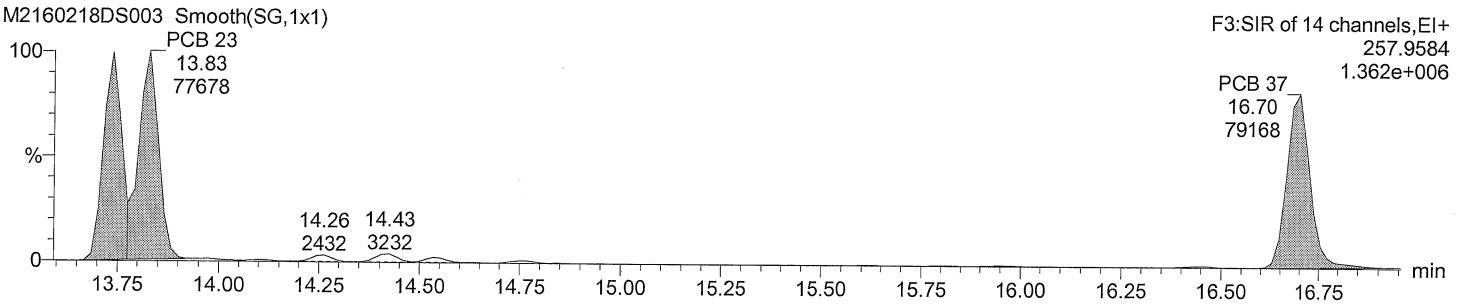

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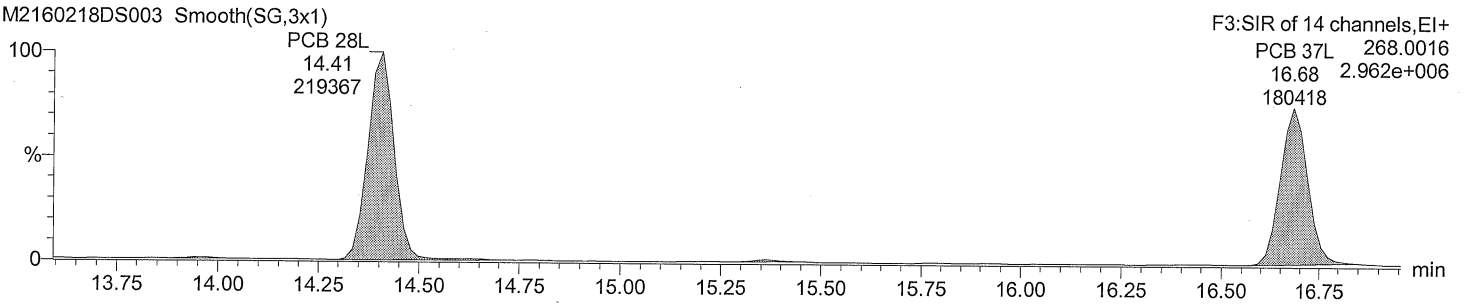

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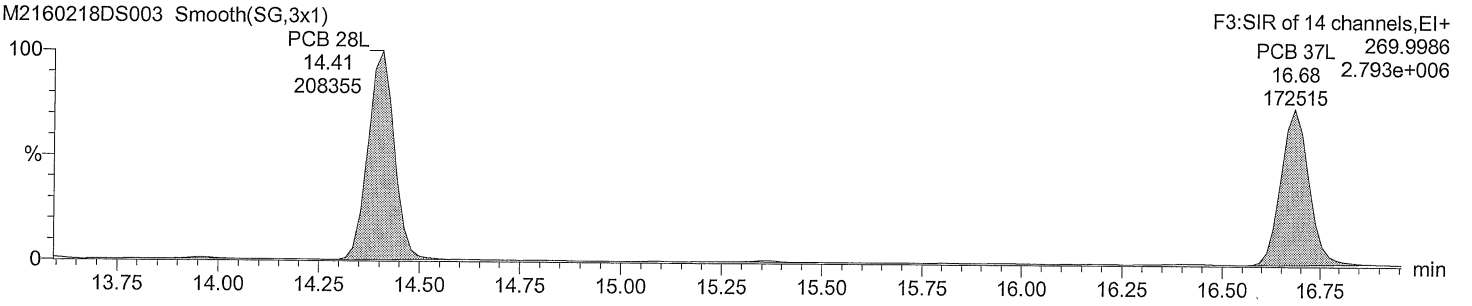

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Last Altered: February 19, 2016 04:17:07 PM Eastern Standard Time
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ID: WS#4386412/4378609, Ti
Description: SPIKE
Vial: 3
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Total TeCB F2
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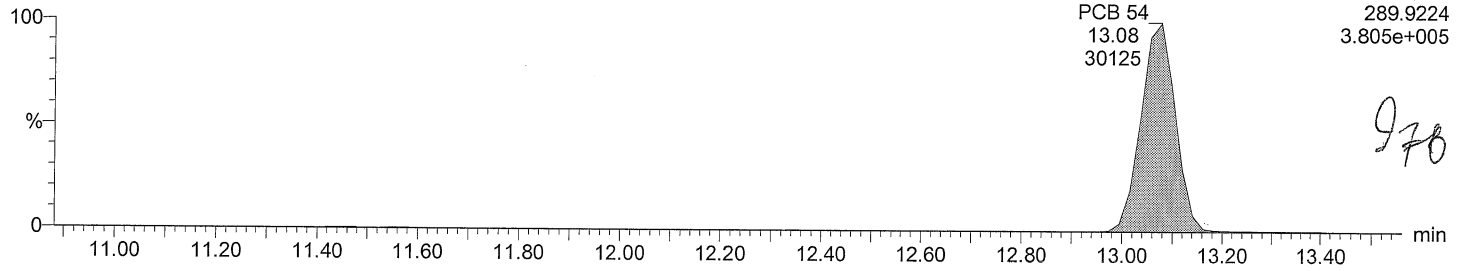

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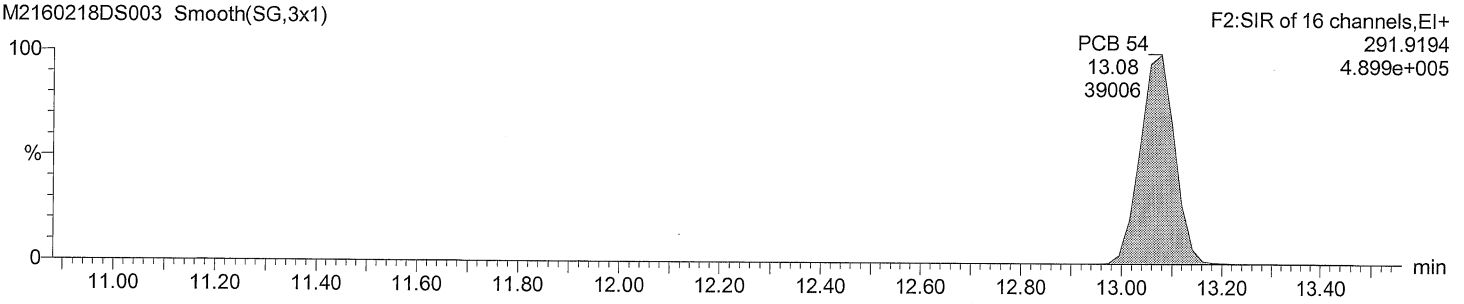

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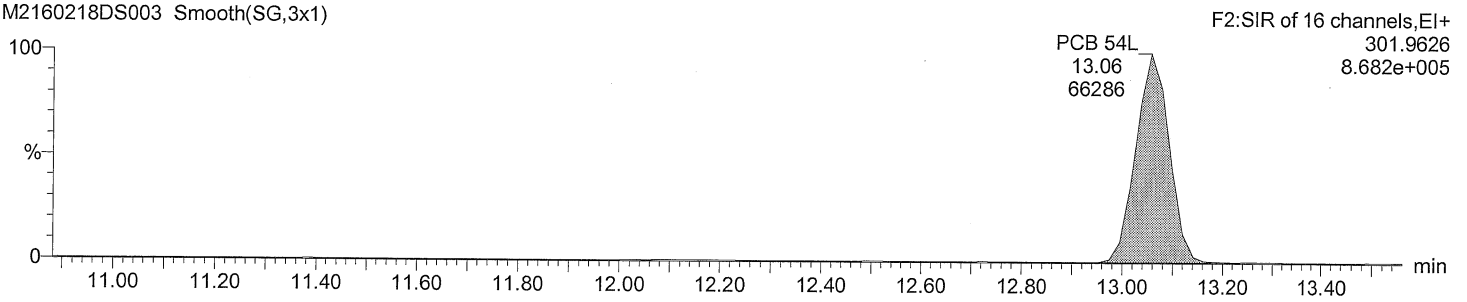

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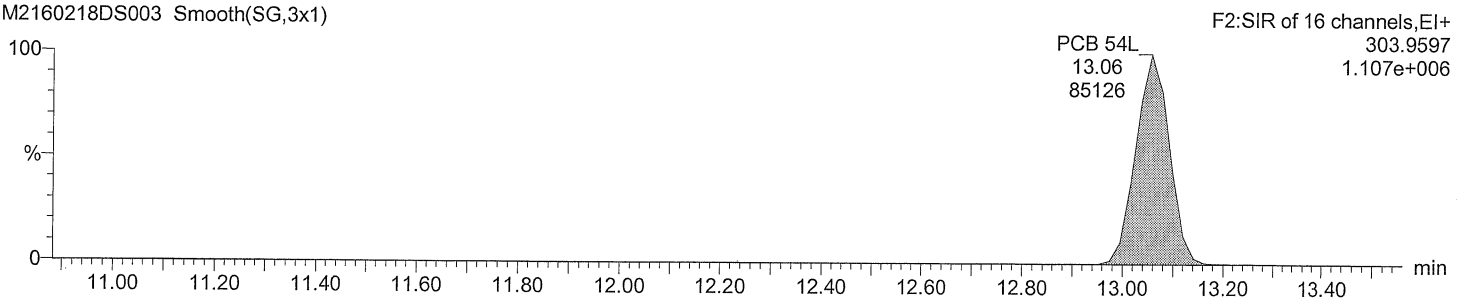

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Description: SPIKE
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Date: 18-FEB-2016
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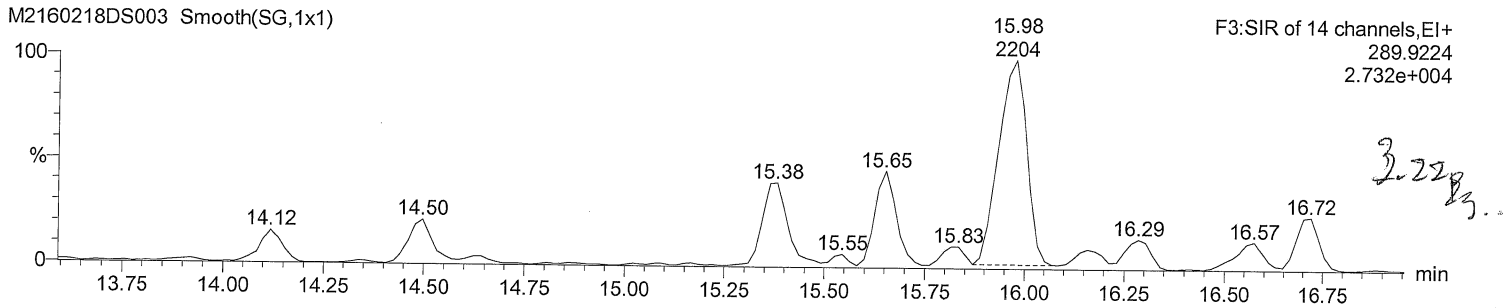

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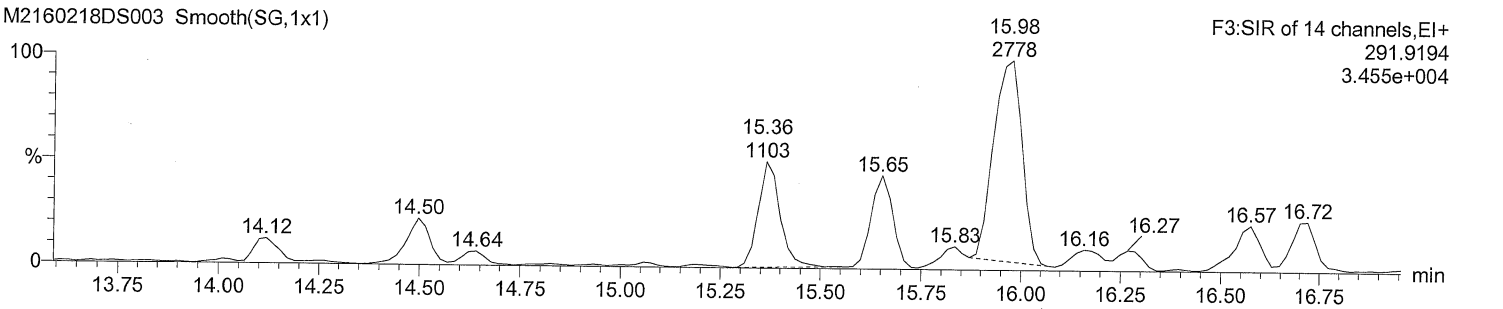

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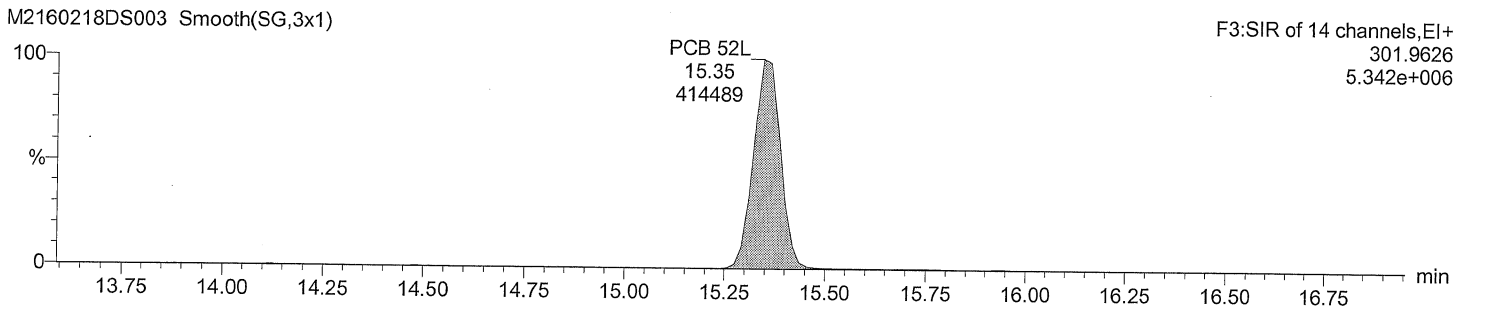

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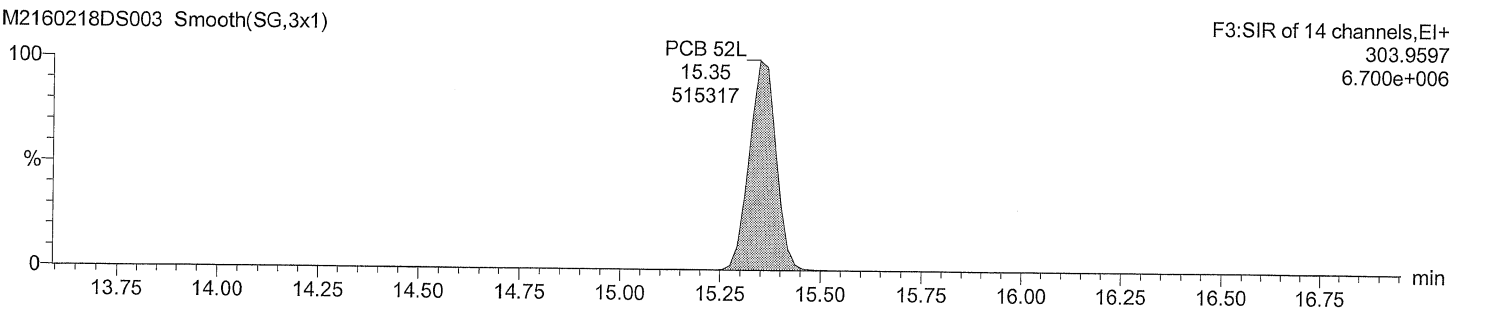

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ID: WS#4386412/4378609, Ti
Description: SPIKE
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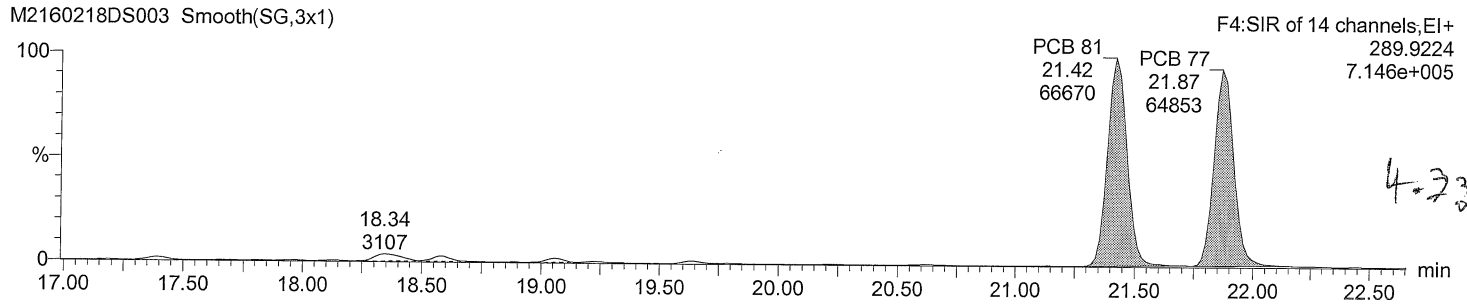
Total TeCB F4



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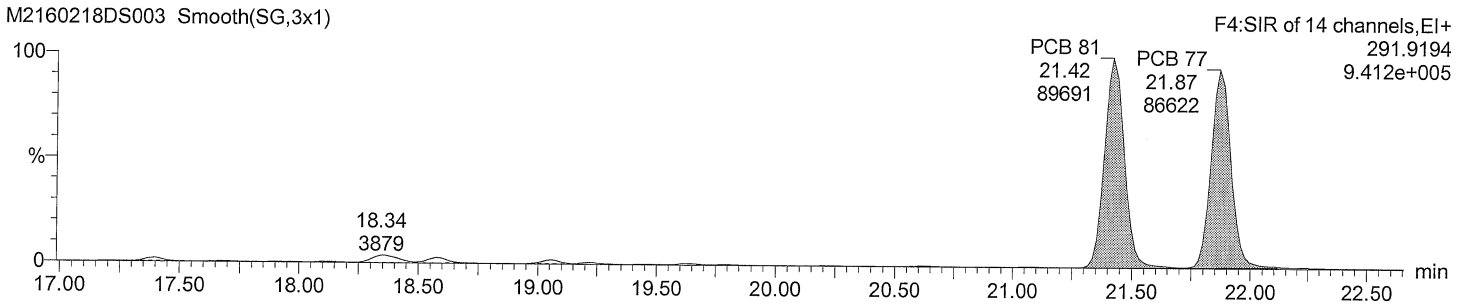

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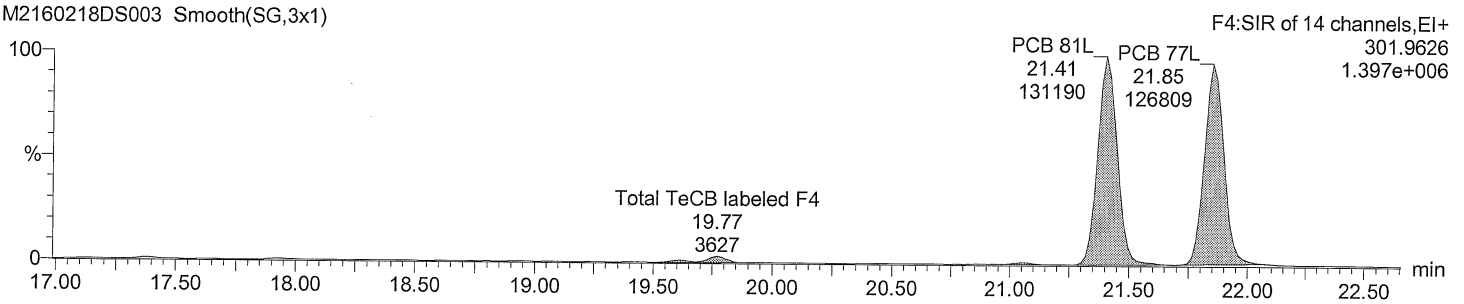

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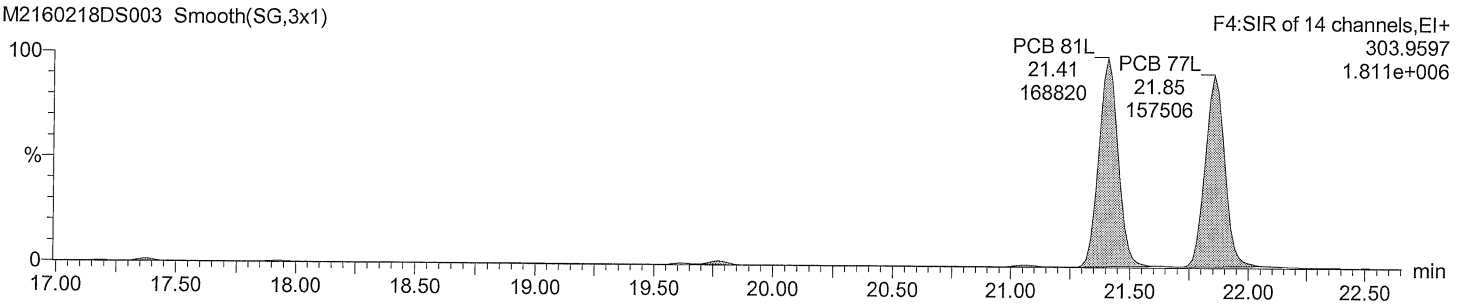

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Total PeCB F3
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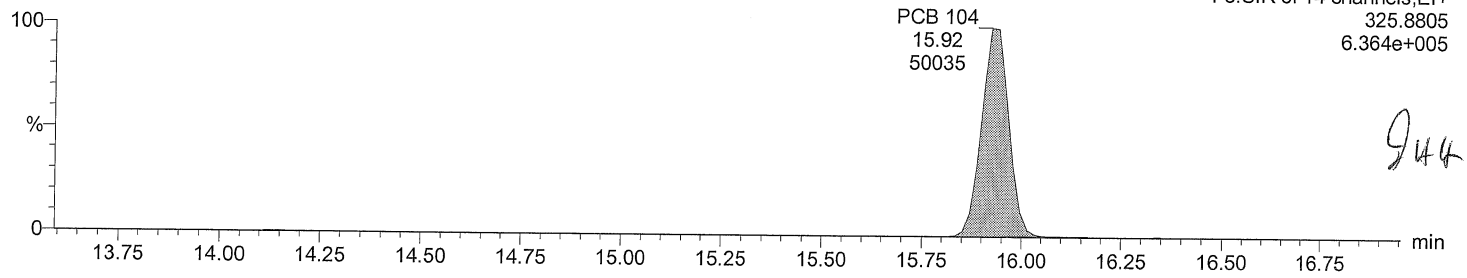

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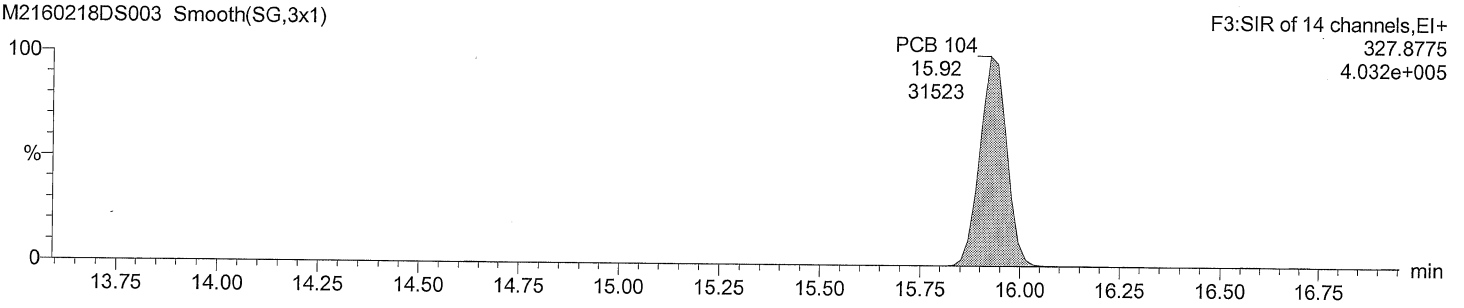

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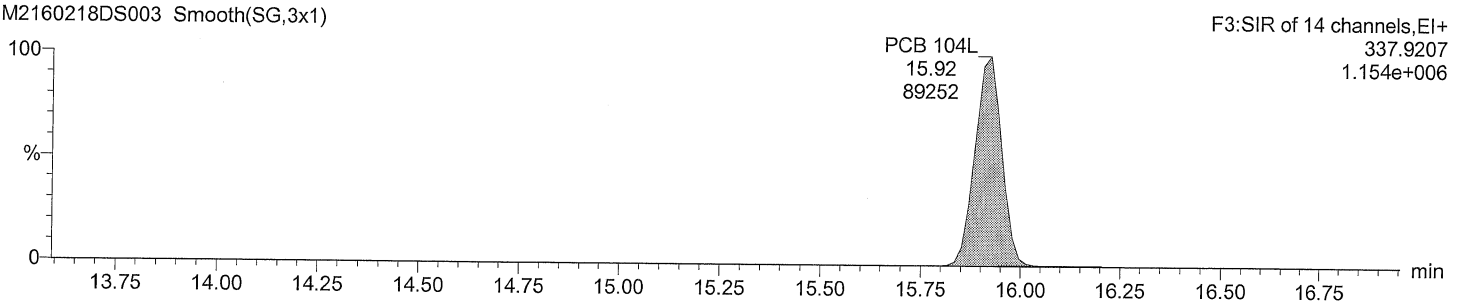

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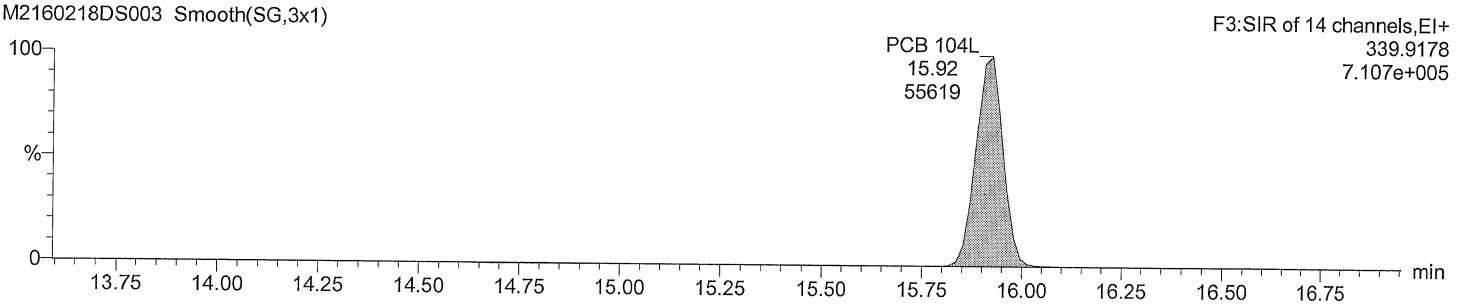

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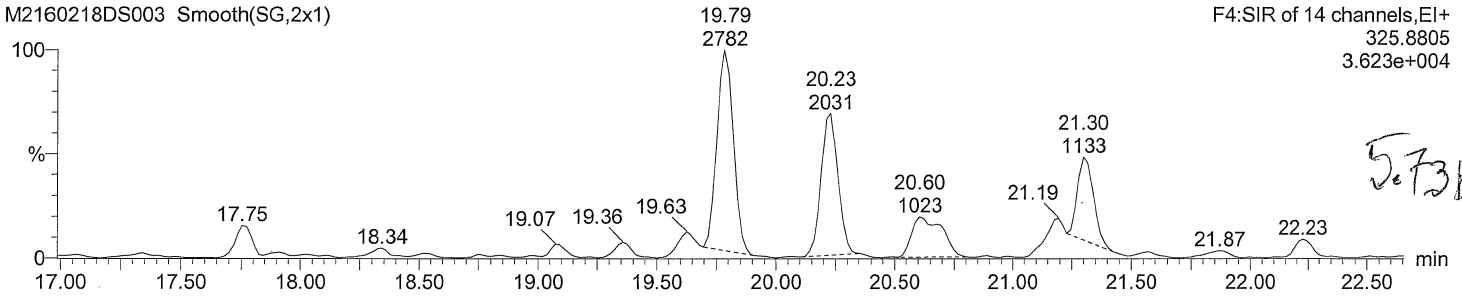
Total PeCB F4



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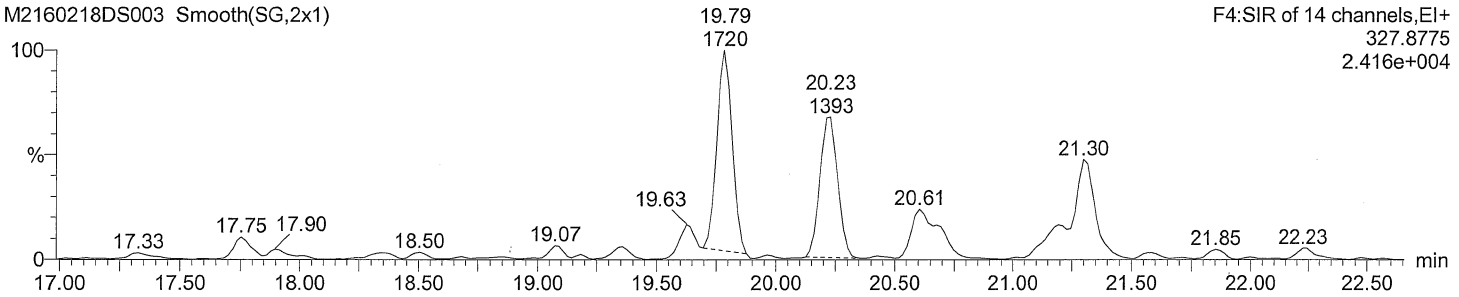

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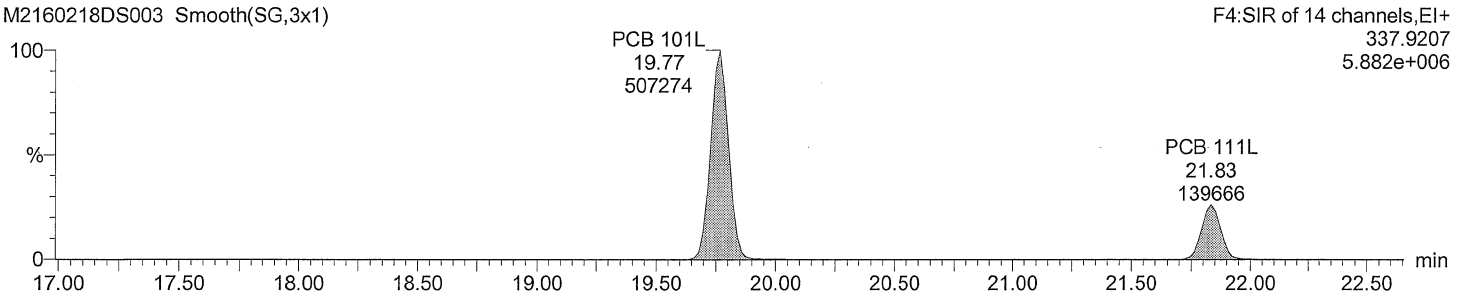

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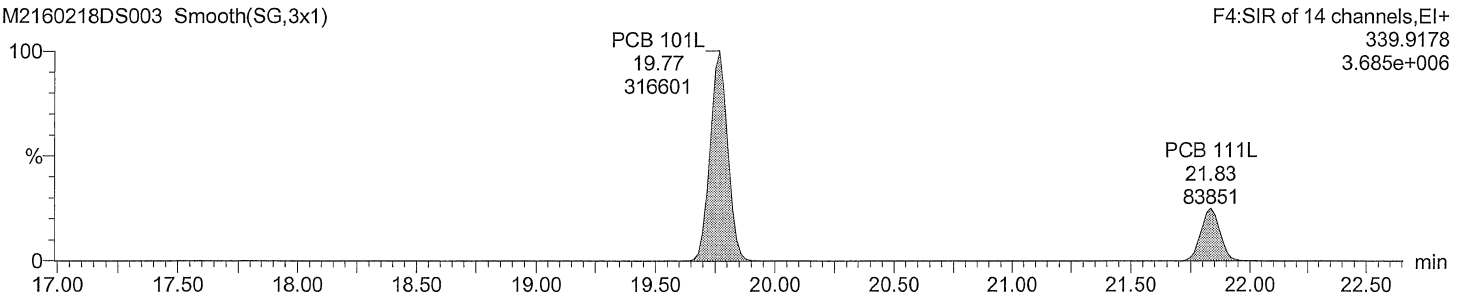

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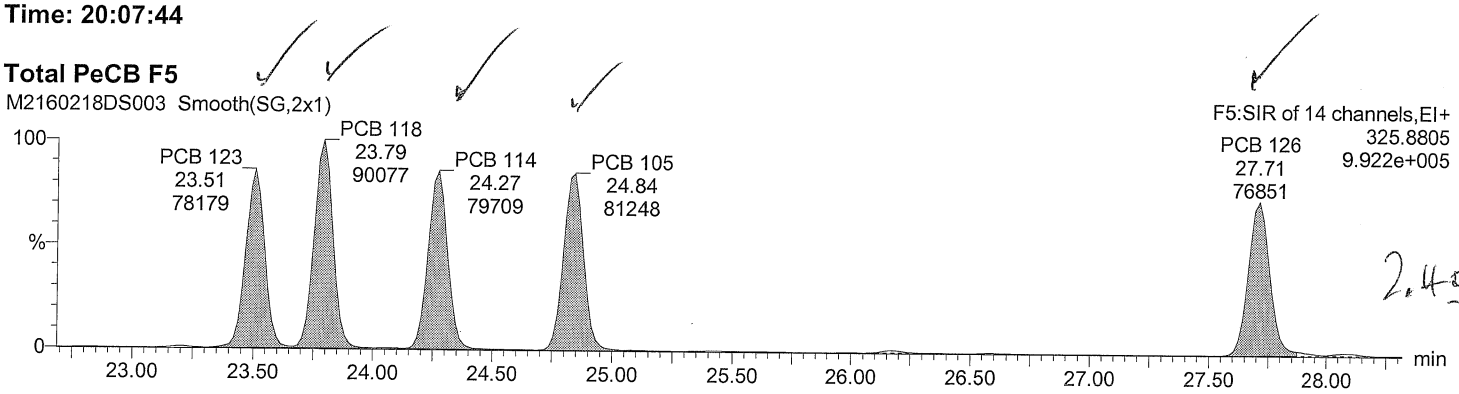
Total PeCB F5



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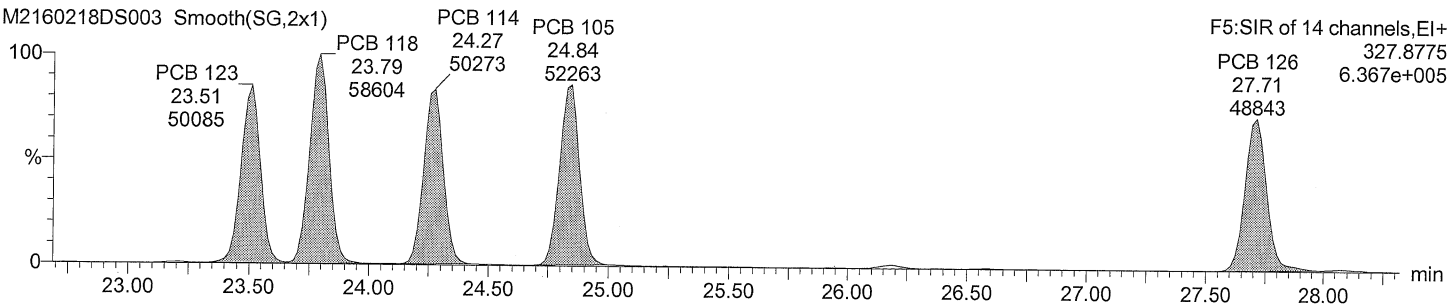

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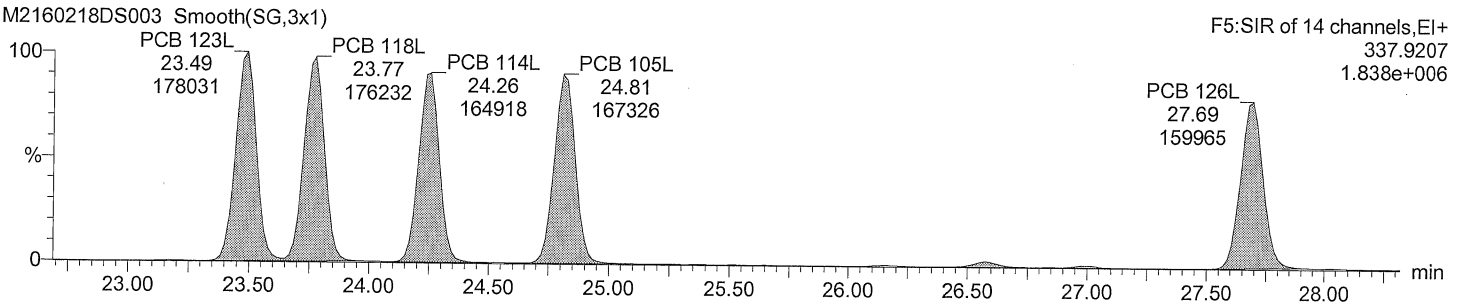

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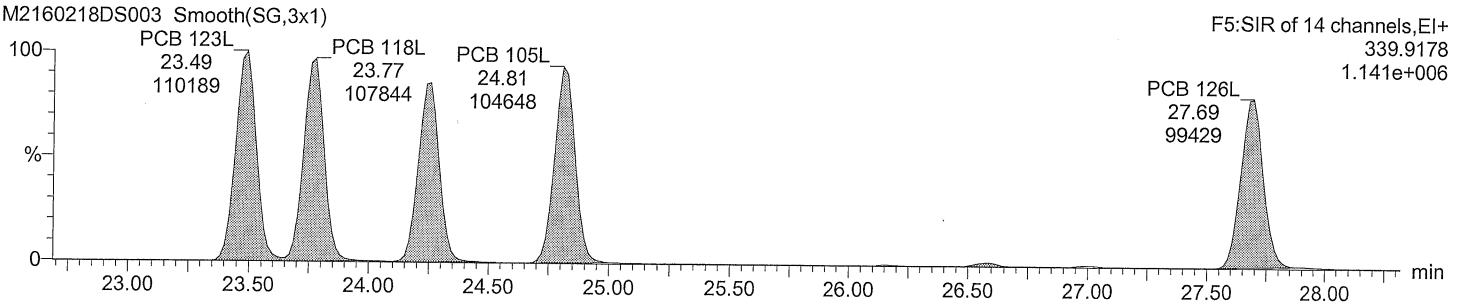

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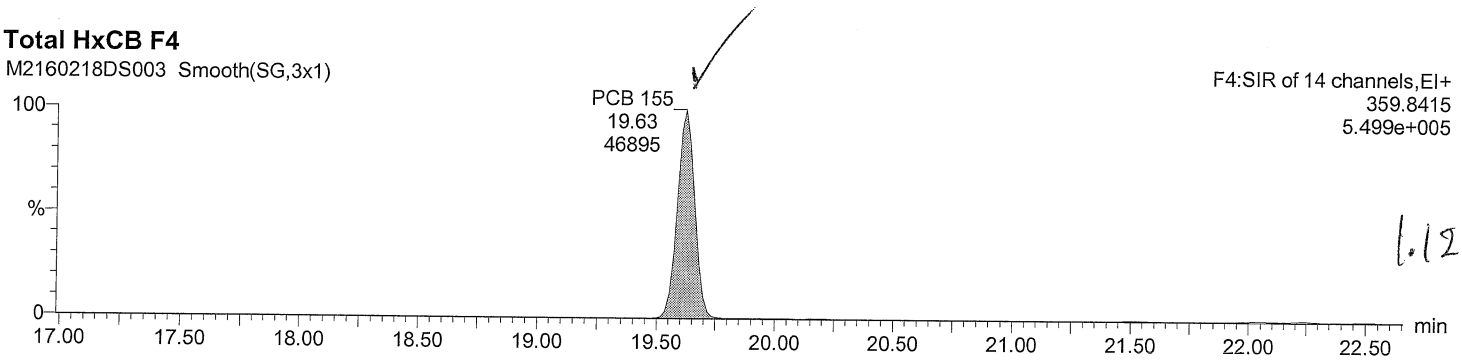

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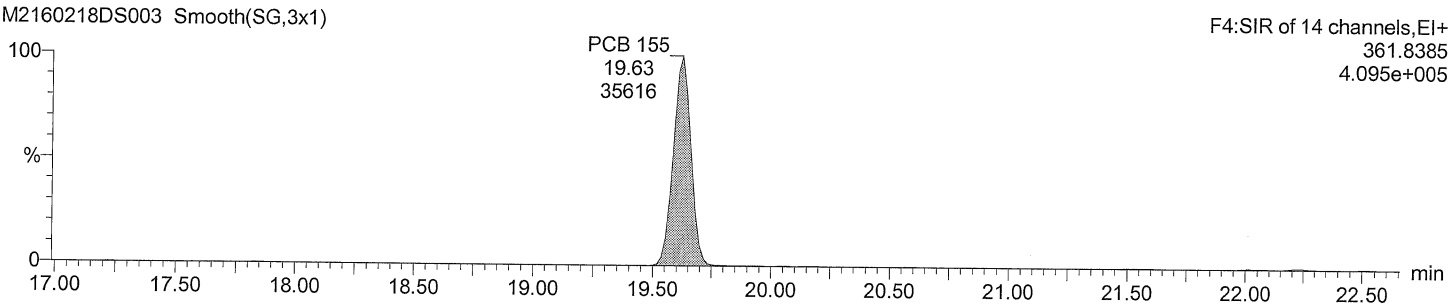

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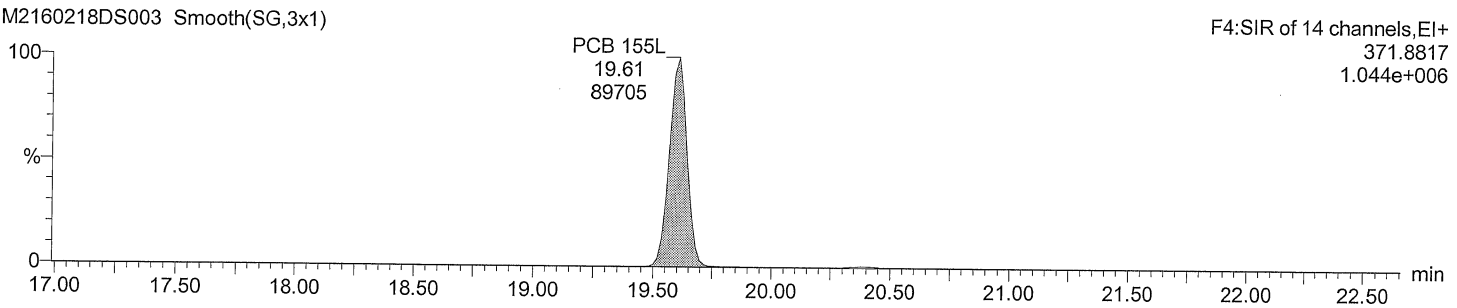

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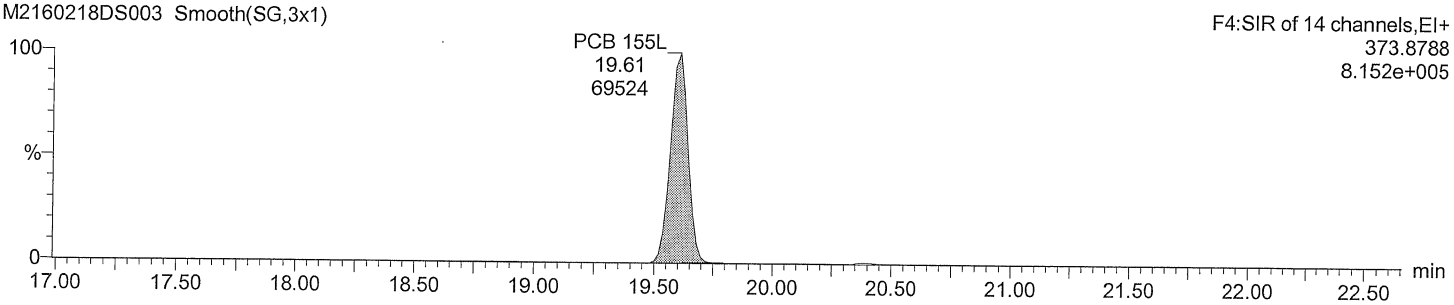

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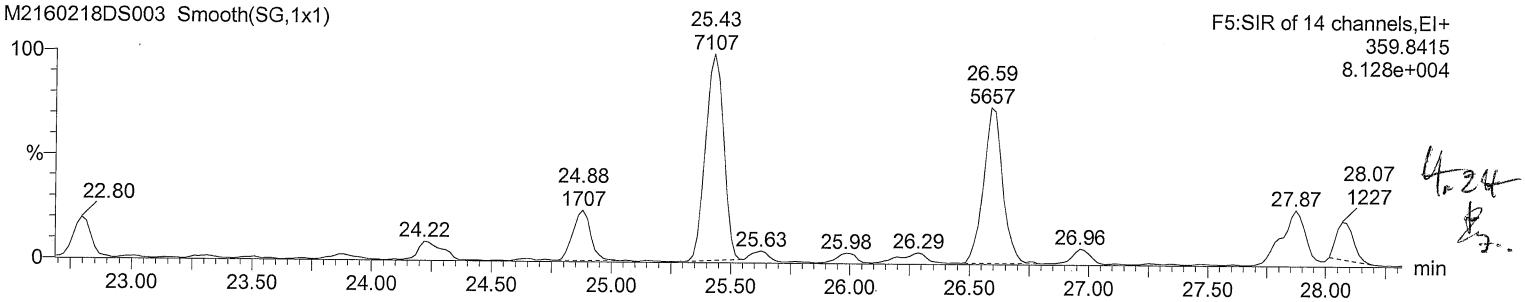

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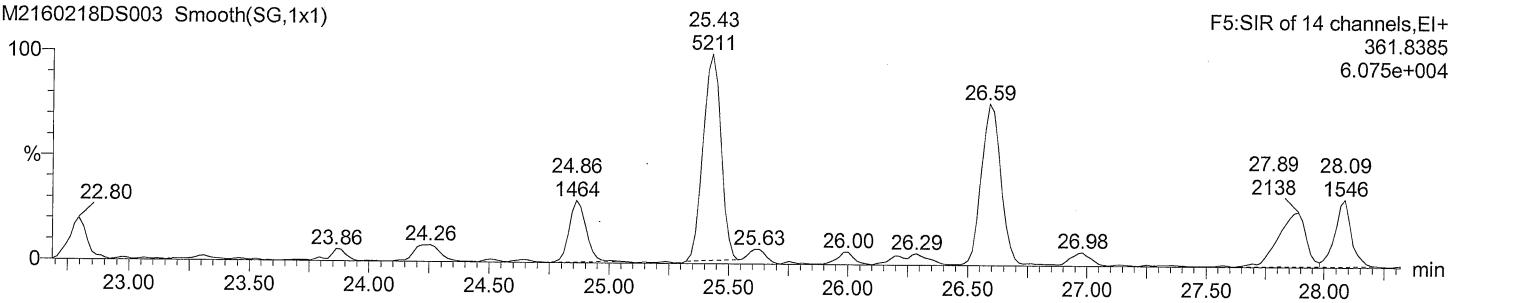

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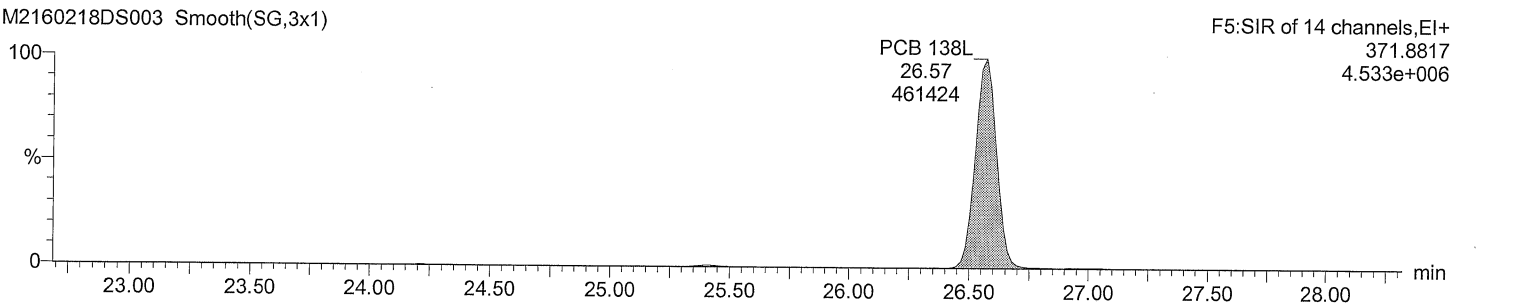

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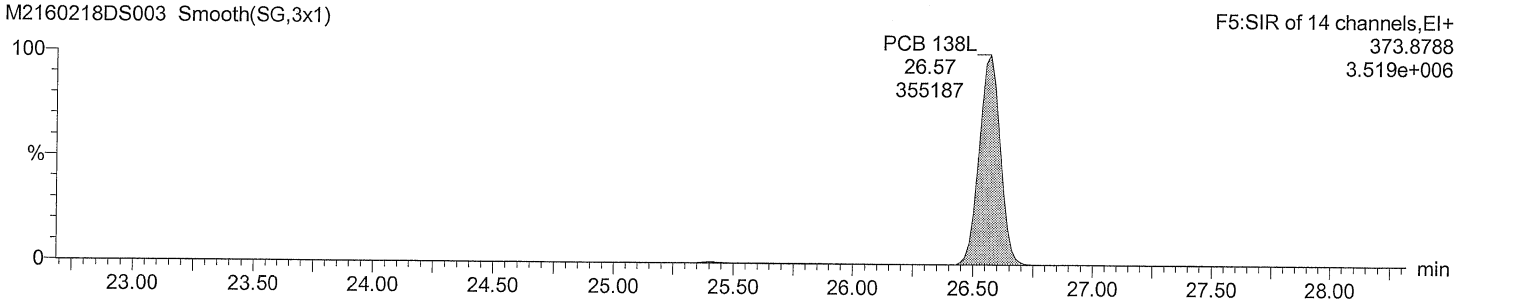

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ID: WS#4386412/4378609, Ti
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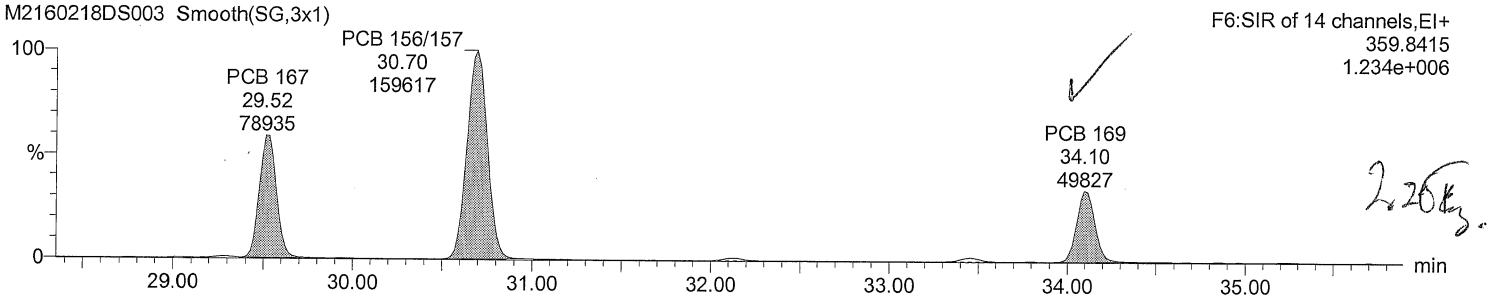
Total HxCB F6



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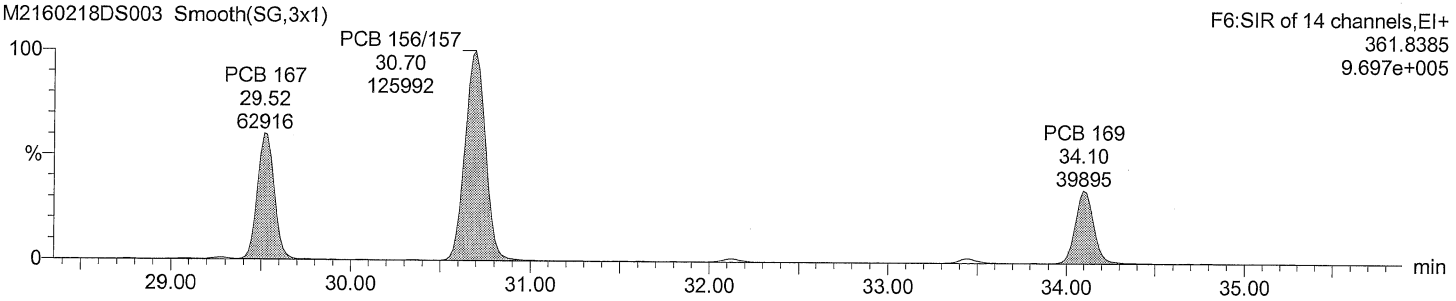

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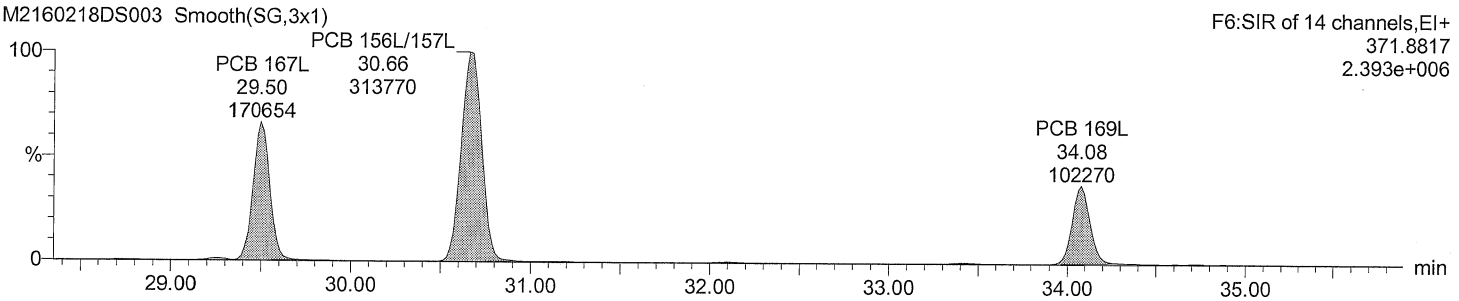

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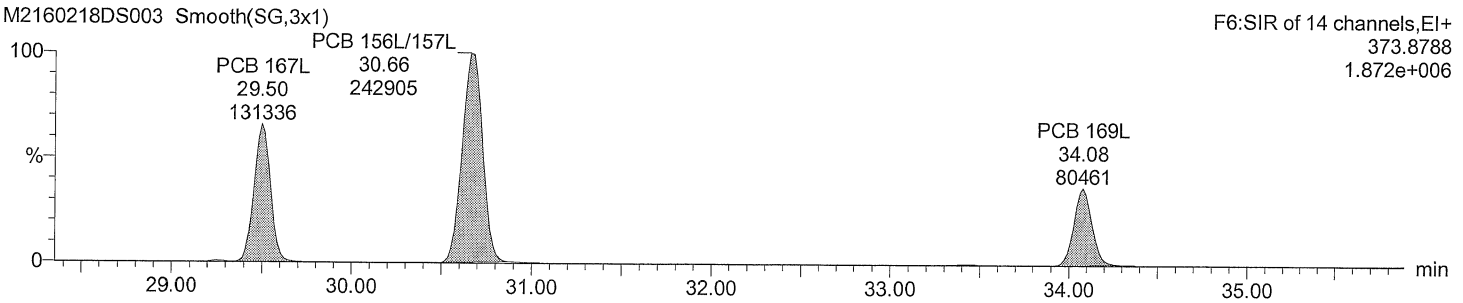

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Date: 18-FEB-2016
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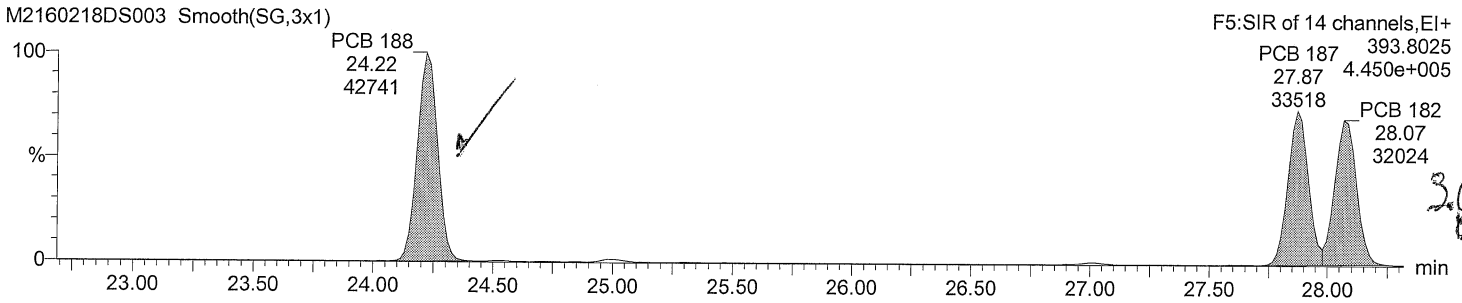
Total HpCB F5



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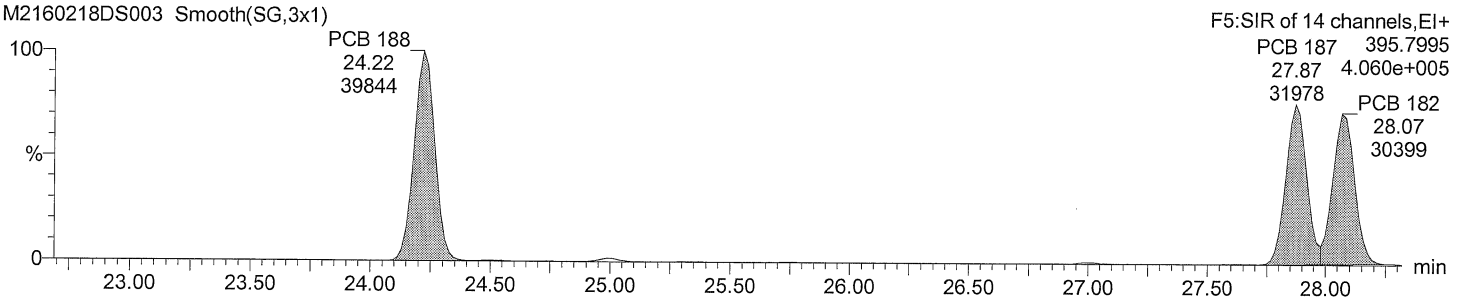

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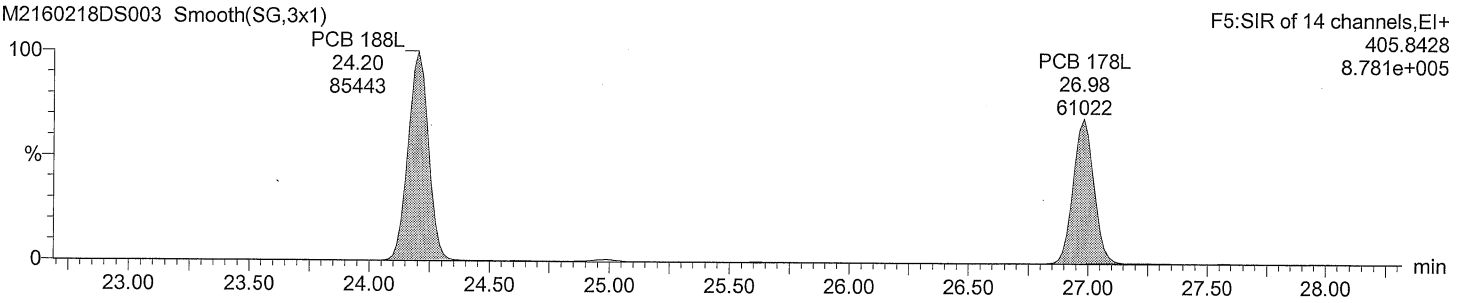

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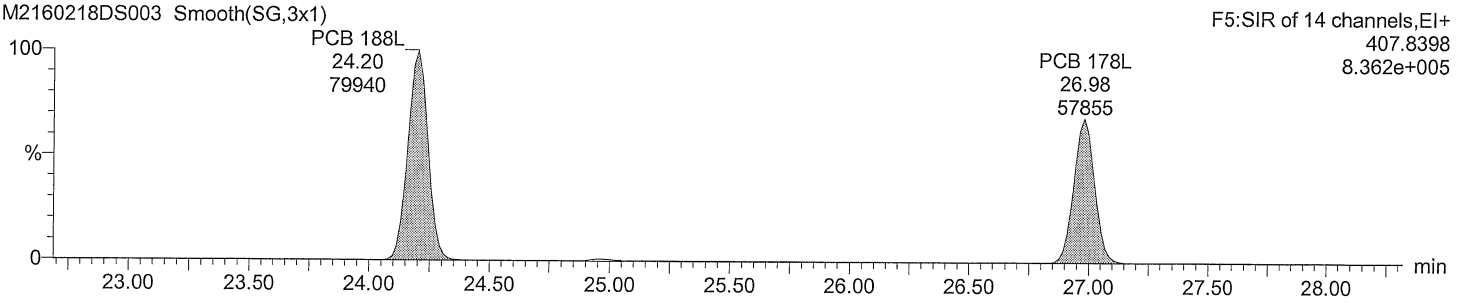

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Total HpCB F6
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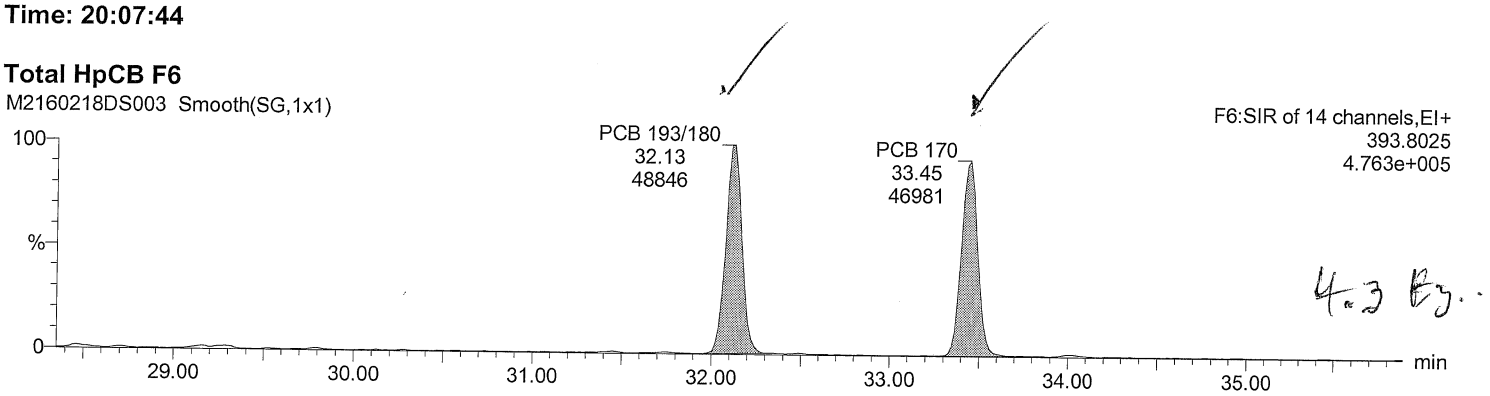

Total HpCB F6
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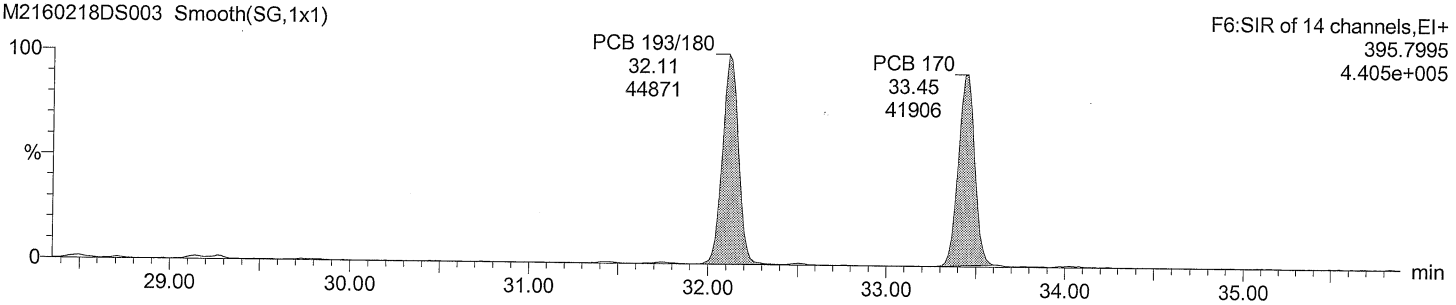

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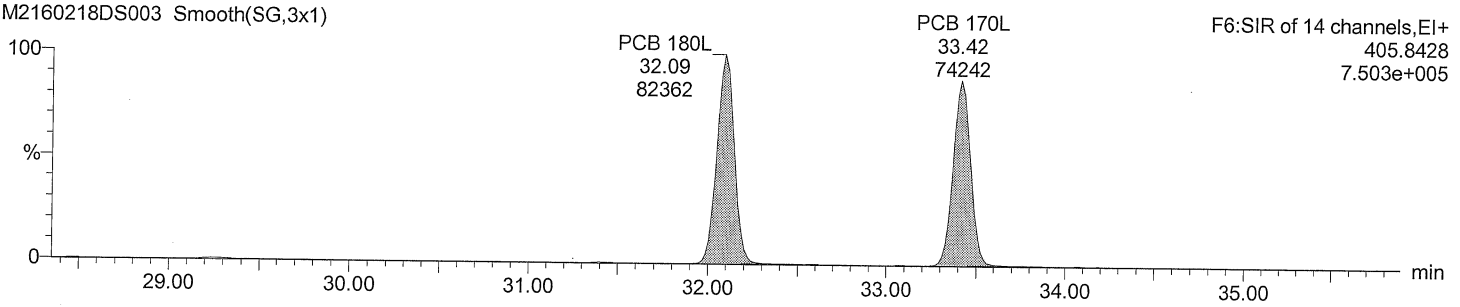
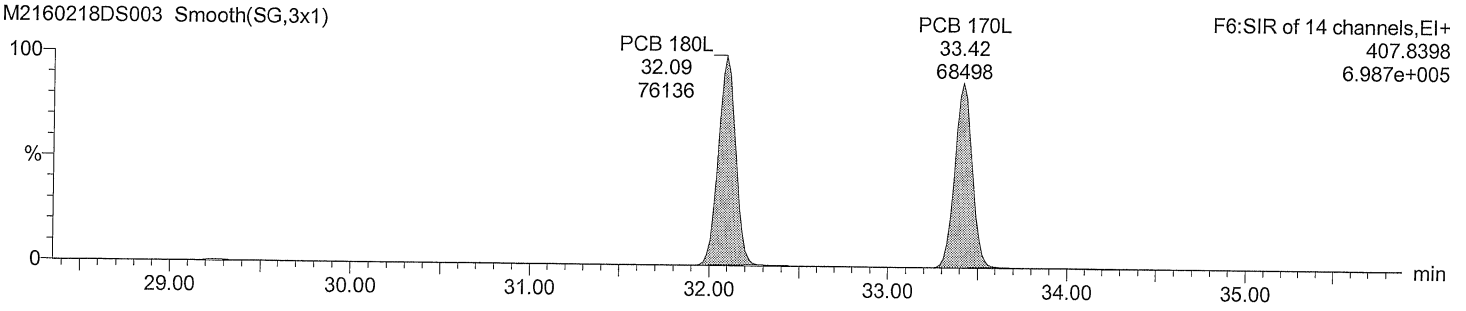


Total HpCB labeled F6
M2160218DS003 Smooth(SG,3x1)



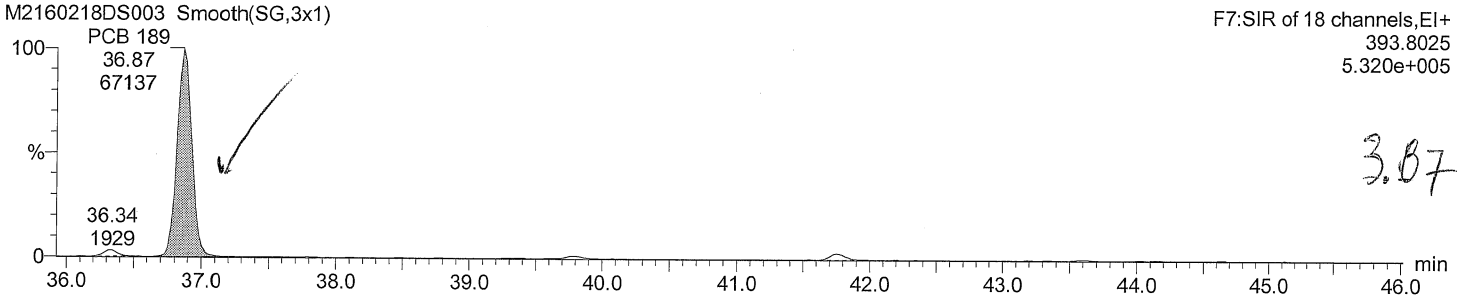
Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 19, 2016 04:17:07 PM Eastern Standard Time
Printed: February 19, 2016 04:26:58 PM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: SPIKE
Vial: 3
Date: 18-FEB-2016
Time: 20:07:44

Total HpCB F7



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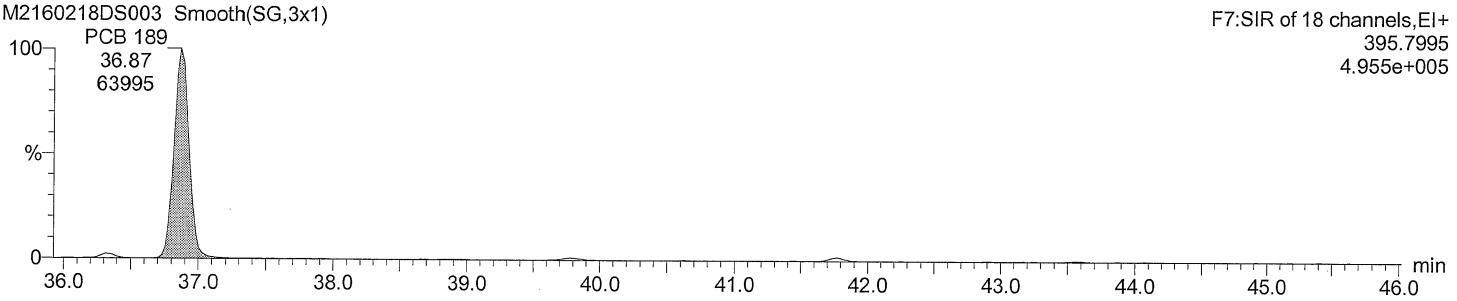

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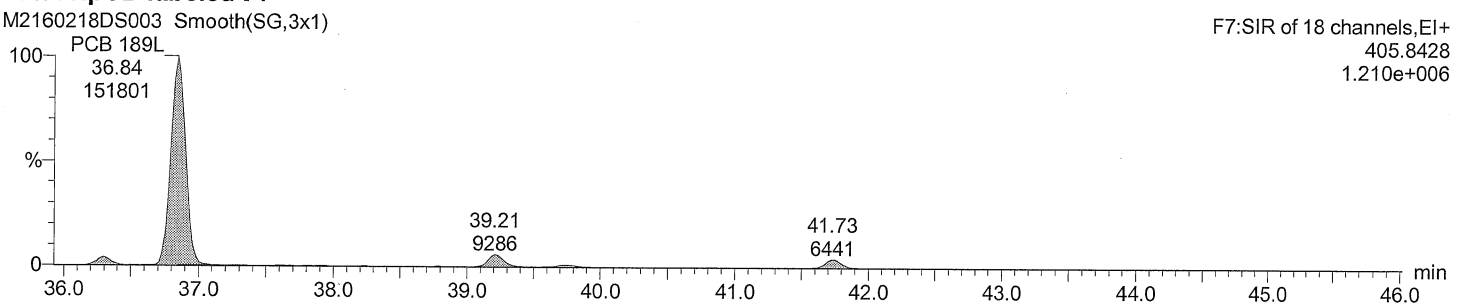

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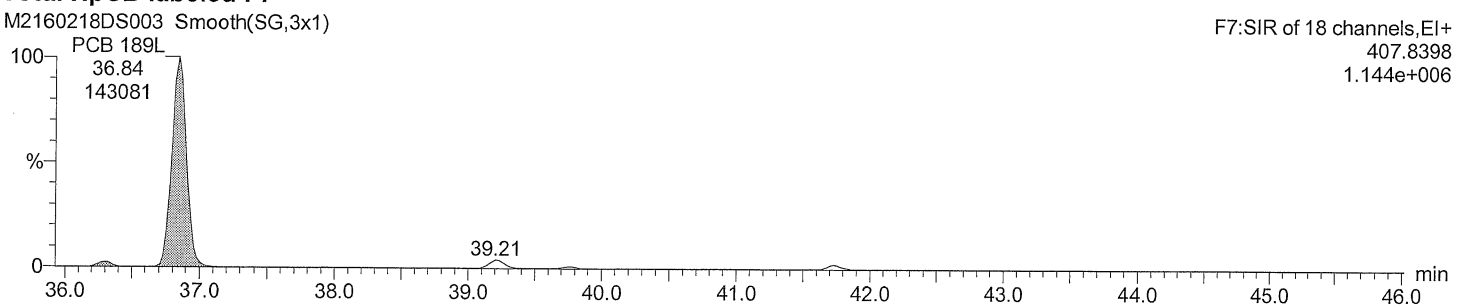

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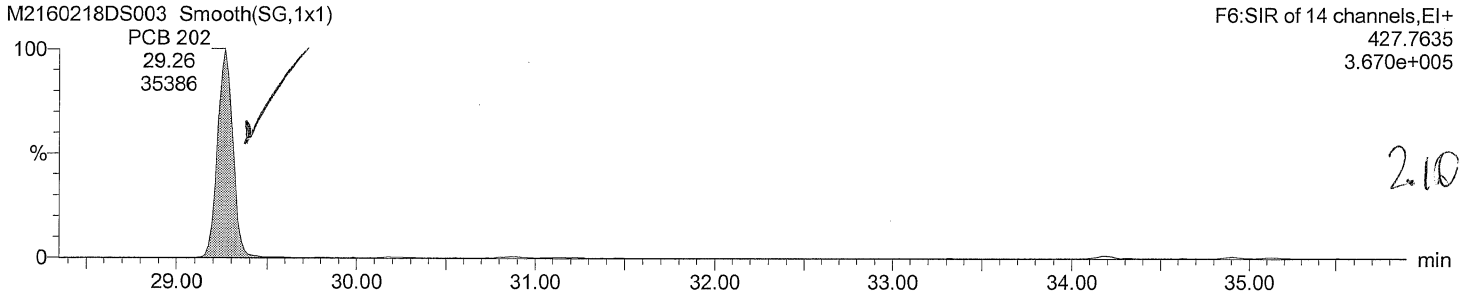
Last Altered: February 19, 2016 04:17:07 PM Eastern Standard Time
Printed: February 19, 2016 04:26:58 PM Eastern Standard Time

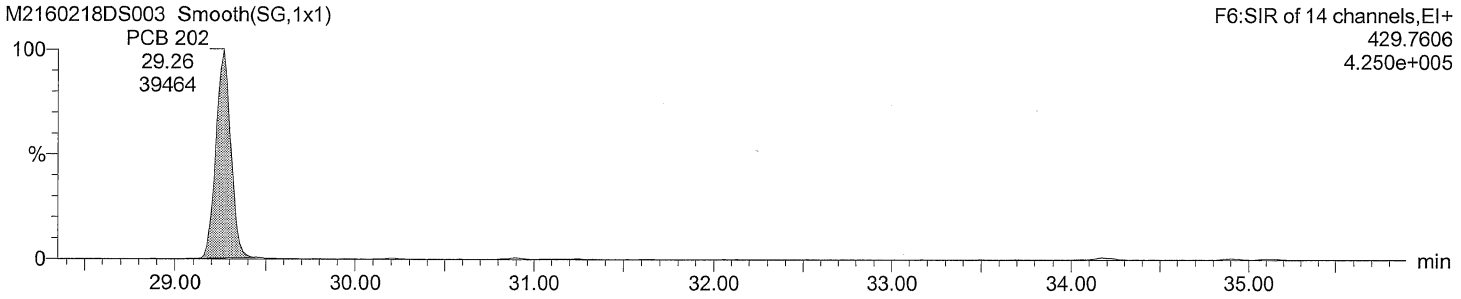
ID: WS#4386412/4378609, Ti
Description: SPIKE
Vial: 3
Date: 18-FEB-2016
Time: 20:07:44

Total OcCB F6



2.10 Rs

Total OcCB F6



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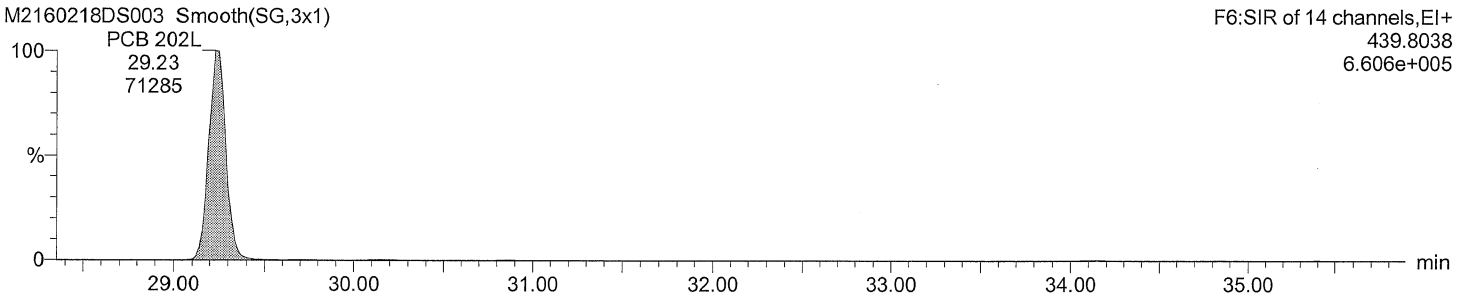

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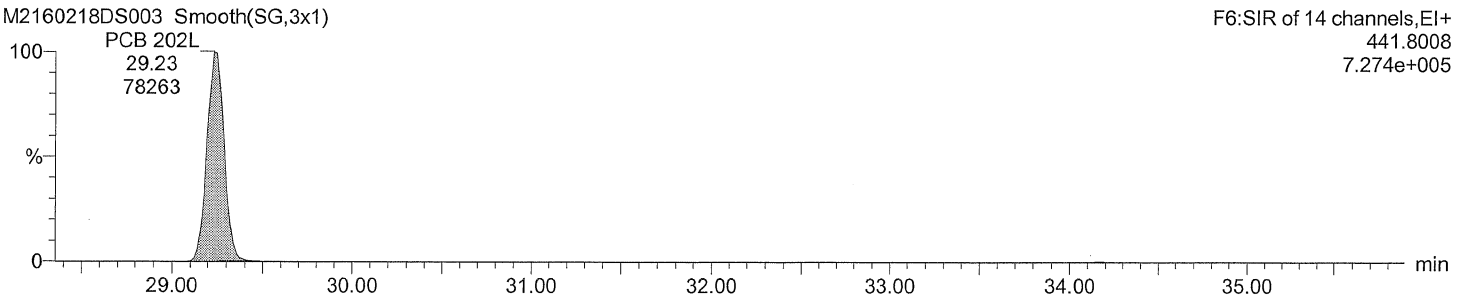

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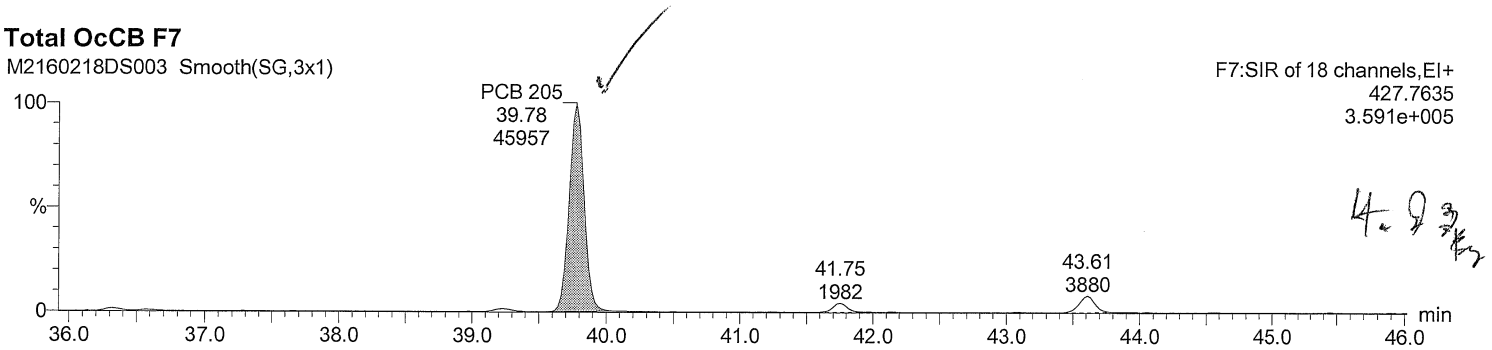
Last Altered: February 19, 2016 04:17:07 PM Eastern Standard Time
Printed: February 19, 2016 04:26:58 PM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: SPIKE
Vial: 3
Date: 18-FEB-2016
Time: 20:07:44

Total OcCB F7



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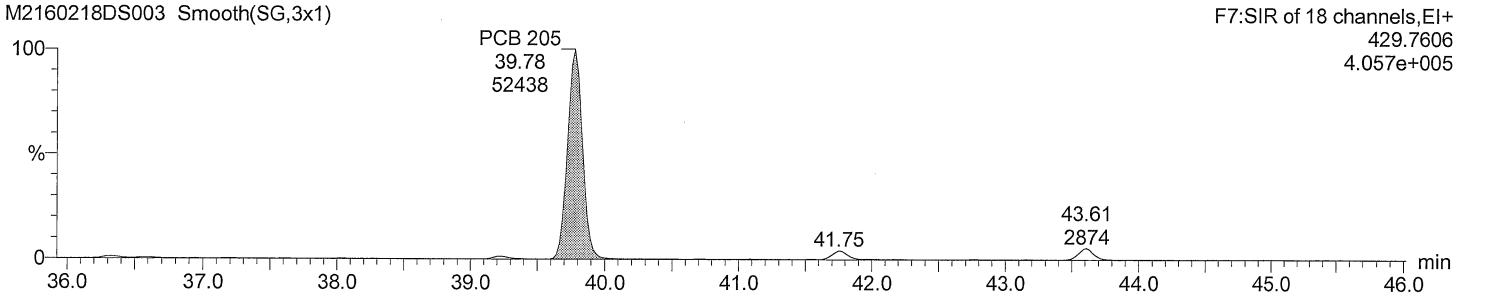

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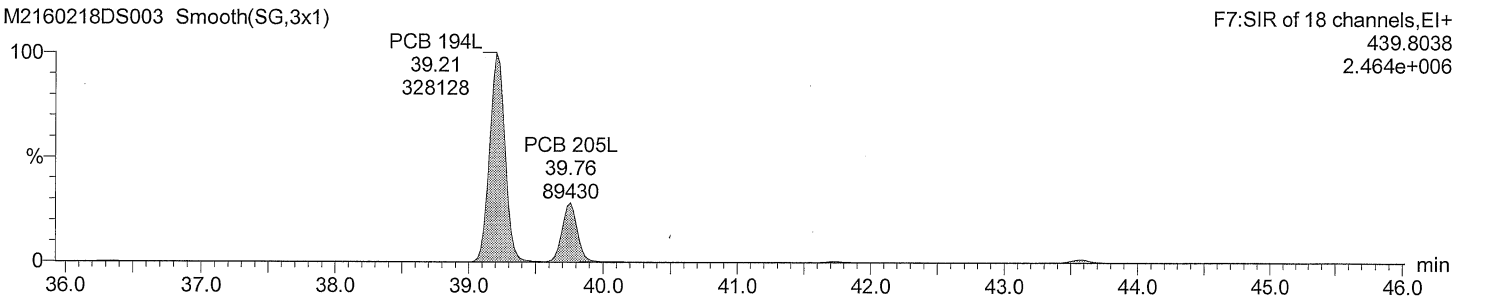

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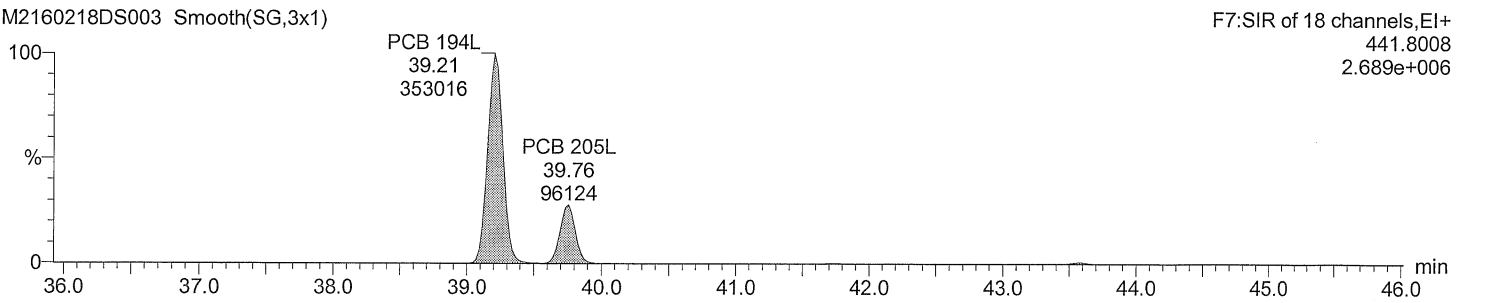

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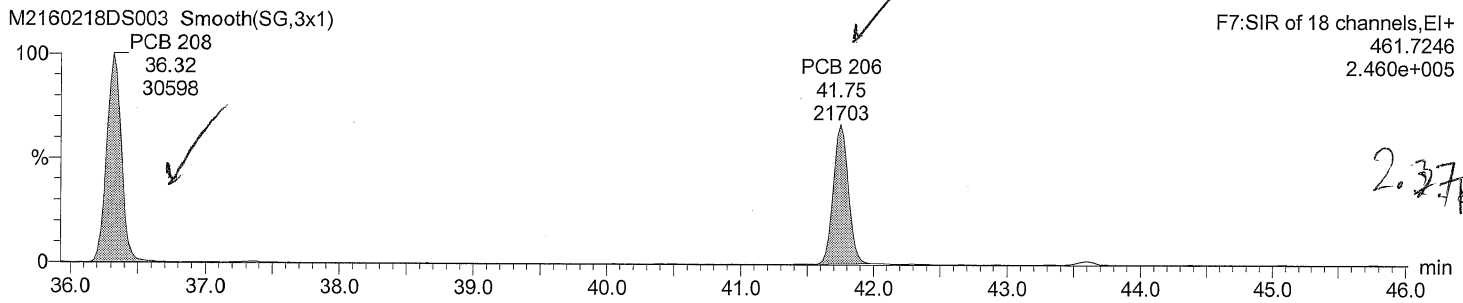
Last Altered: February 19, 2016 04:17:07 PM Eastern Standard Time
Printed: February 19, 2016 04:26:58 PM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: SPIKE
Vial: 3
Date: 18-FEB-2016
Time: 20:07:44

Total NoCB F7



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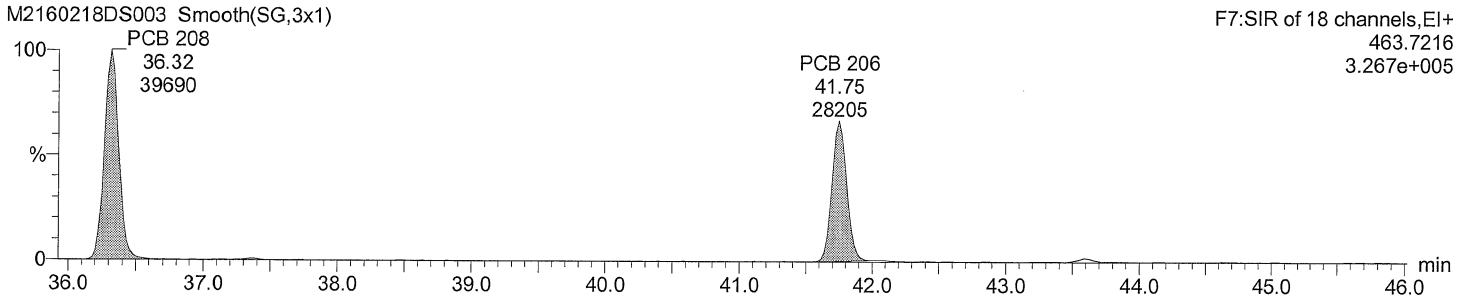

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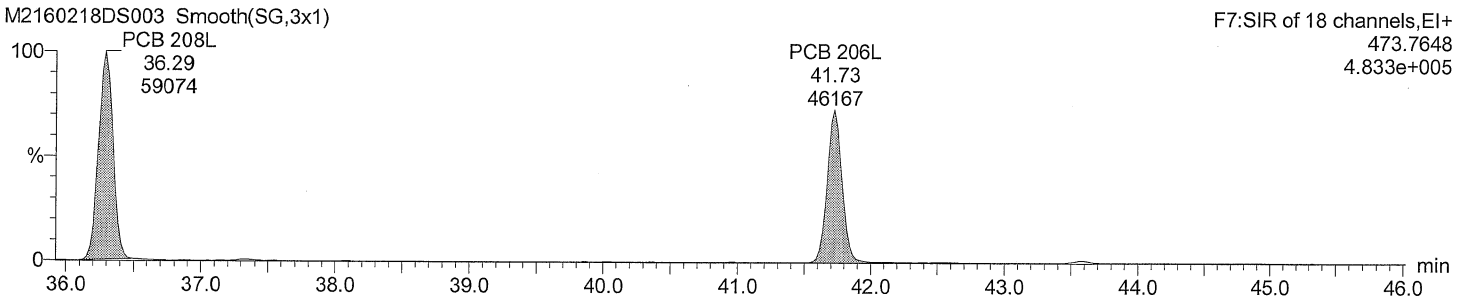

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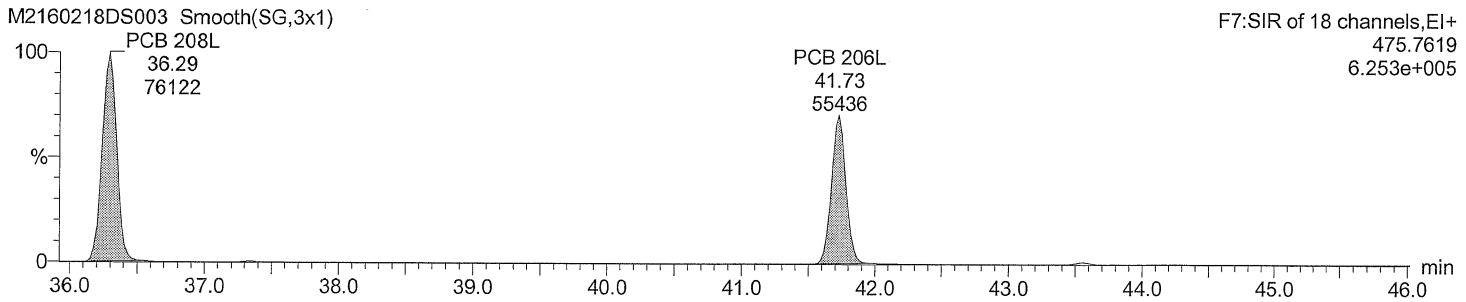
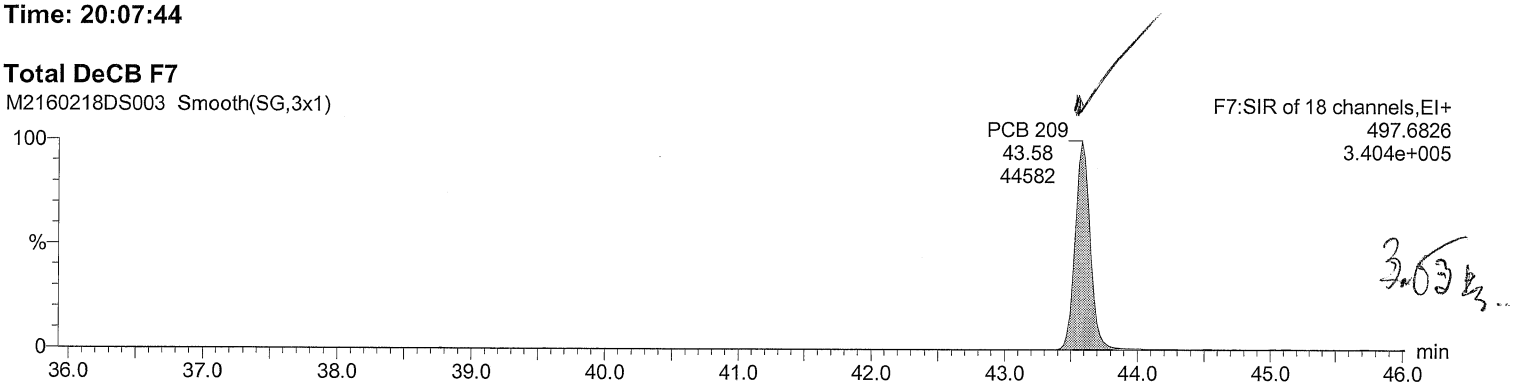


Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 19, 2016 04:17:07 PM Eastern Standard Time
Printed: February 19, 2016 04:26:58 PM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: SPIKE
Vial: 3
Date: 18-FEB-2016
Time: 20:07:44

Total DeCB F7



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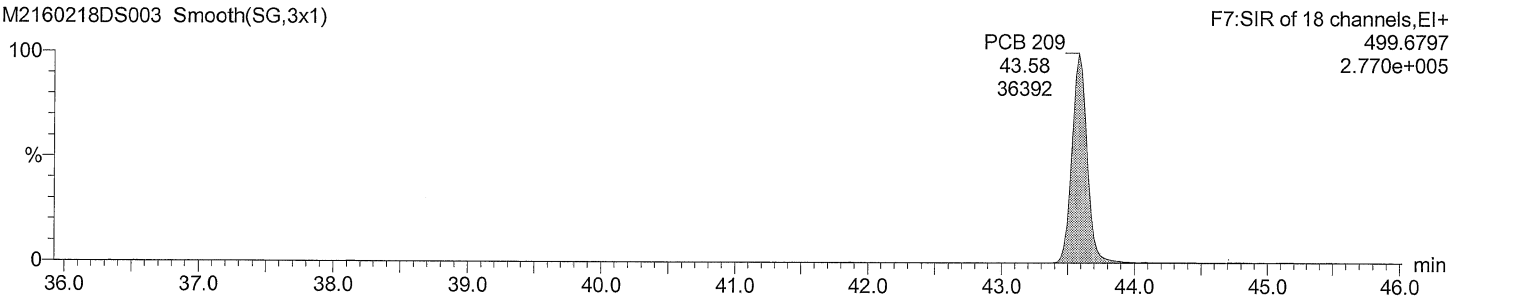

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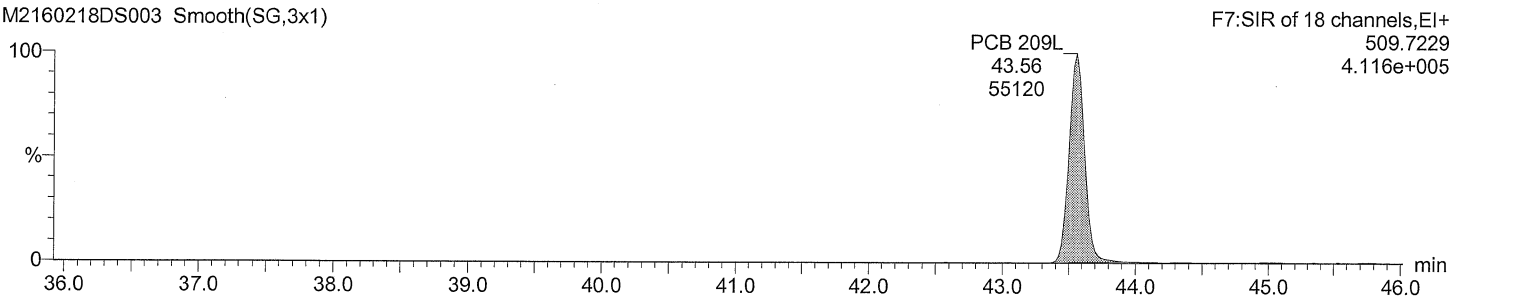

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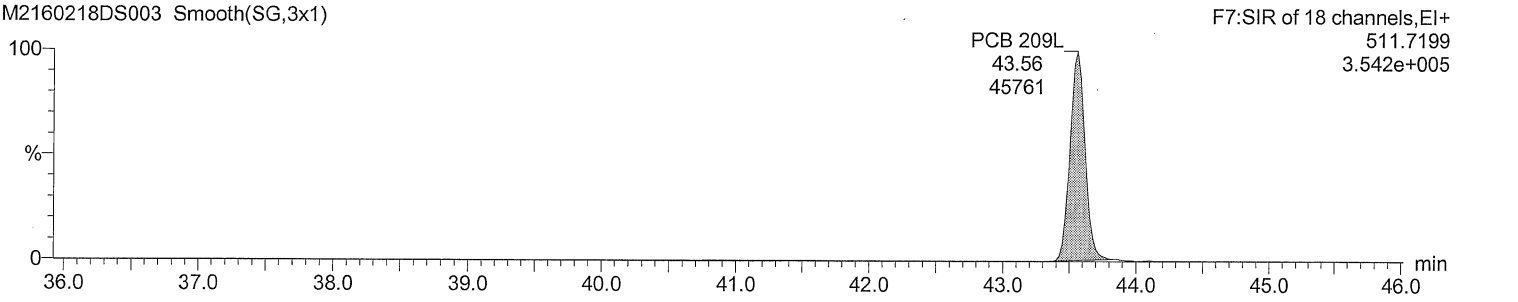


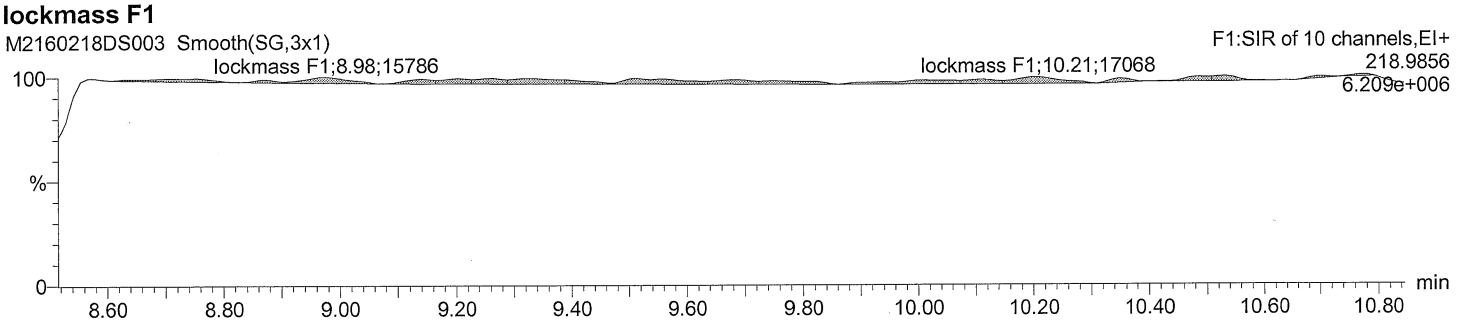
Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

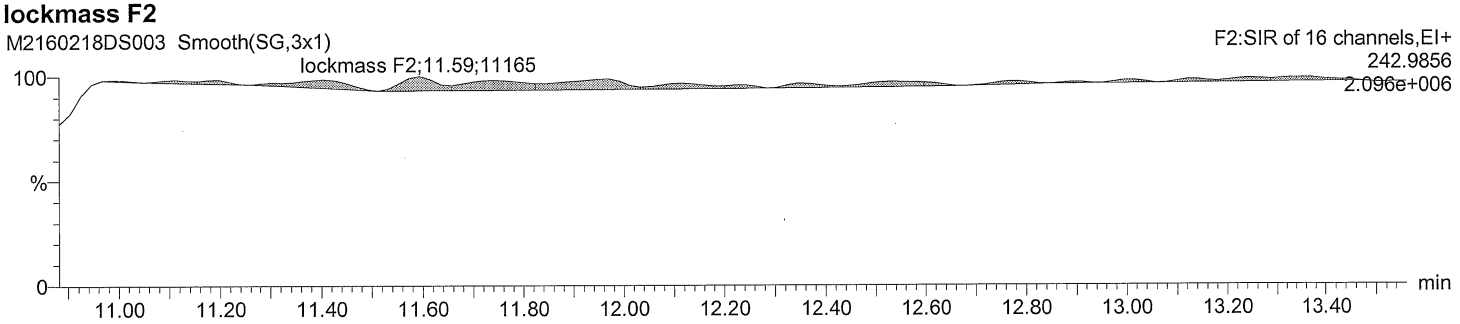
Last Altered: February 19, 2016 04:17:07 PM Eastern Standard Time
Printed: February 19, 2016 04:26:58 PM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: SPIKE
Vial: 3
Date: 18-FEB-2016
Time: 20:07:44

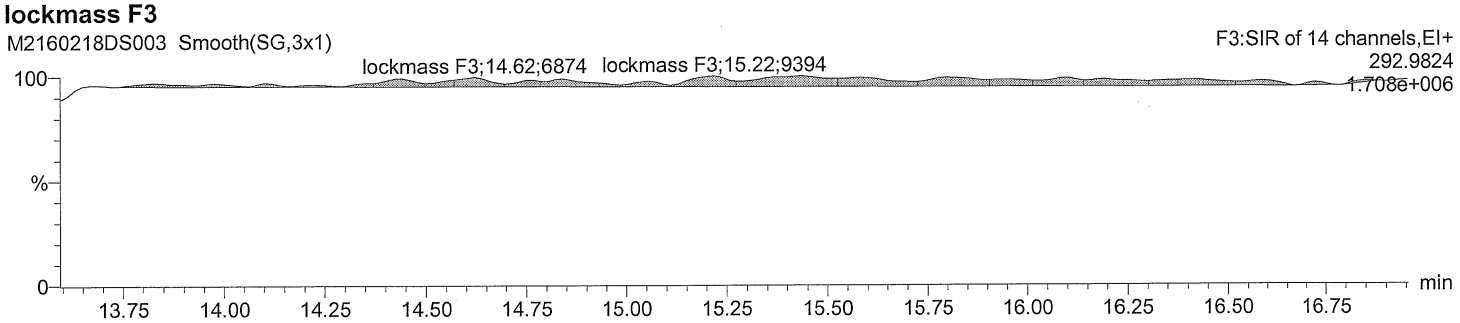
lockmass F1



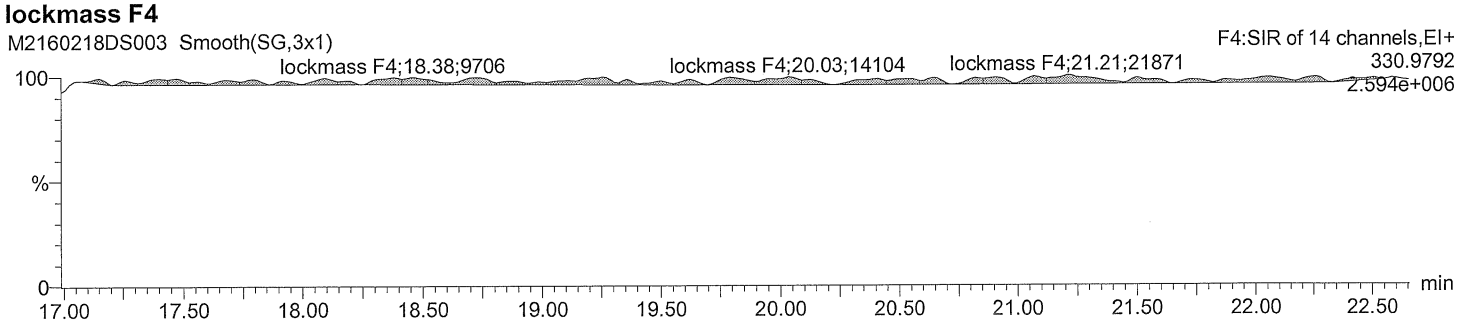
lockmass F2



lockmass F3



lockmass F4



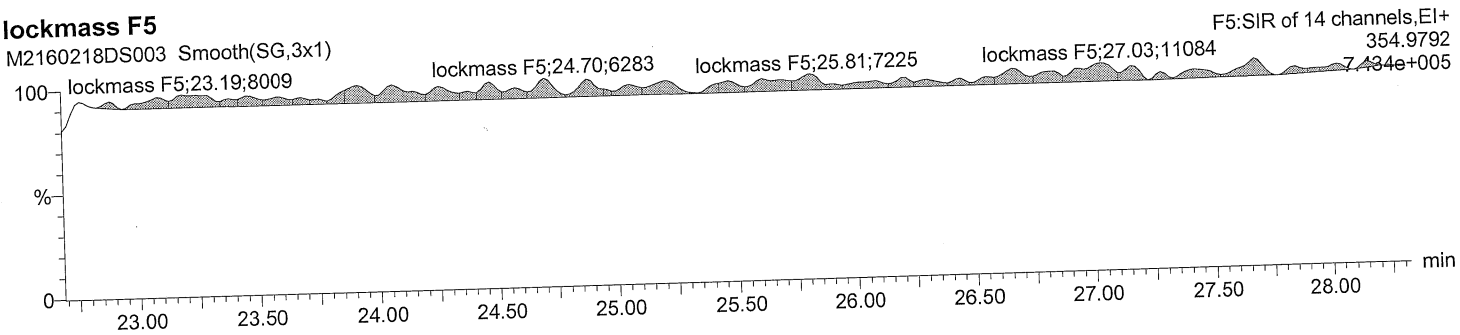
Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

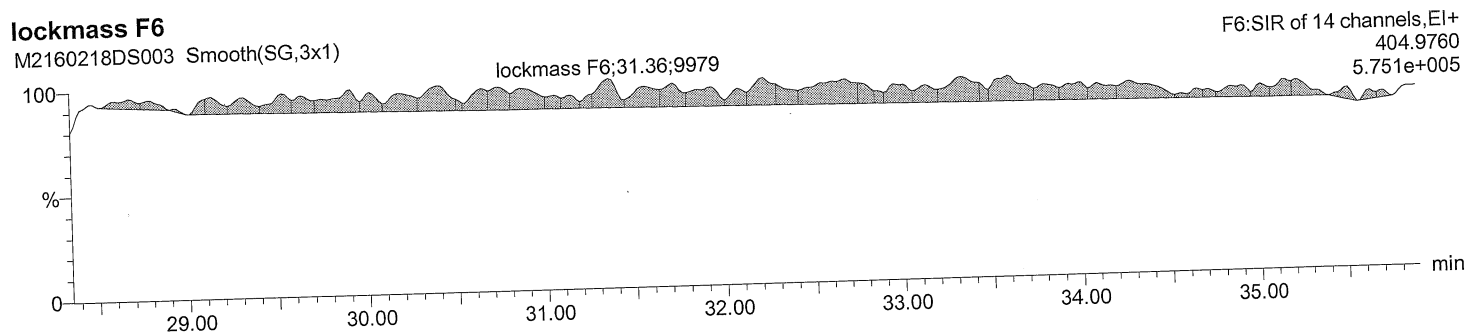
Last Altered: February 19, 2016 04:17:07 PM Eastern Standard Time
Printed: February 19, 2016 04:26:58 PM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: SPIKE
Vial: 3
Date: 18-FEB-2016
Time: 20:07:44

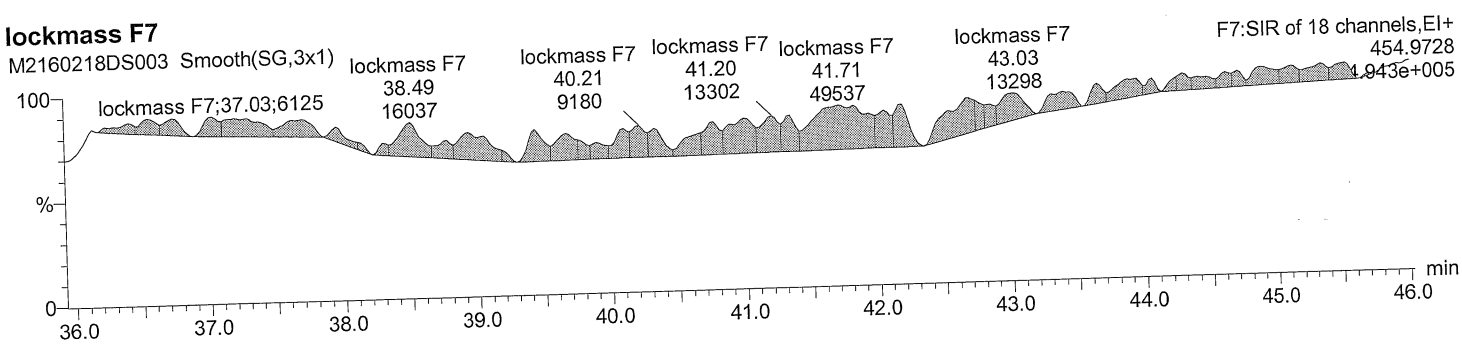
lockmass F5



lockmass F6



lockmass F7



Filename M2160218DS004
Acquired 18/02/2016 20:57 Cali File M2160218D_209

Sample ID SPIKE:D1
Comments
Instrument File Ultima 3
Sample Size 10.149 Dil Fac 1.00

Name	mass	RT	Area	ratio	Tot Area	ng	Code	Isomers	DL	S/N	Mod	rrf	Rec
1 PCB 1	**188**	**8.99**	**103613**	**3.32**	**134869**	**0.101958**	**PCB 1 % Rec = 103**		-0.0008	325	no	1.082	-
	MoCB 190	8.97	31256	yes						304			
2 PCB 2	188	NotFnd	*	*	*	-0.00073			-0.00073	*	no	1.2	-
	MoCB 190	10.10	*	no						*			
3 PCB 3	**188**	**10.18**	**101216**	**3.17**	**133149**	**0.103136**	**PCB 3 % Rec = 105**		-0.00081	328	no	1.079	-
	MoCB 190	10.19	31933	yes						319			
4 PCB 4	**222**	**10.29**	**37987**	**1.66**	**60867**	**0.109185**	**PCB 4 % Rec = 111**		-0.00268	789	no	0.954	-
	DiCB 224	10.29	22881	yes						42			
5 PCB 10	222	NotFnd	*	*	*	-0.00208			-0.00208	*	no	1.229	-
	DiCB 224	10.36	*	no						*			
6 PCB 9	222	NotFnd	*	*	*	-0.00304			-0.00304	*	no	1.311	-
	DiCB 224	11.18	*	no						*			
7 PCB 7	222	NotFnd	*	*	*	-0.00342			-0.00342	*	no	1.165	-
	DiCB 224	11.26	*	no						*			
8 PCB 6	222	NotFnd	*	*	*	-0.00302			-0.00302	*	no	1.319	-
	DiCB 224	11.34	*	no						*			
9 PCB 5	222	NotFnd	*	*	*	-0.00405			-0.00405	*	no	0.983	-
	DiCB 224	11.49	*	no						*			
10 PCB 8	222	NotFnd	*	*	*	-0.00274			-0.00274	*	no	1.456	-
	DiCB 224	11.55	*	no						*			
11 PCB 14	222	NotFnd	*	*	*	-0.00299			-0.00299	*	no	1.332	-
	DiCB 224	12.26	*	no						*			
12 PCB 11	222	NotFnd	*	*	*	-0.0031			-0.0031	*	no	1.285	-
	DiCB 224	12.66	*	no						*			
13 PCB 13/12	222	NotFnd	*	*	*	-0.00329			-0.00329	*	no	1.21	-
	DiCB 224	12.81	*	no						*			
14 PCB 15	**222**	**12.95**	**100327**	**1.57**	**164206**	**0.105132**	**PCB 15 % Rec = 107**		-0.00457	1089	no	0.871	-
	DiCB 224	12.95	63880	yes						53			
15 PCB 19	**256**	**11.67**	**33093**	**1.05**	**64743**	**0.106936**	**PCB 19 % Rec = 109**		-0.00166	362	no	0.899	-
	TriCB 258	11.70	31650	yes						373			
16 PCB 30/18	256	NotFnd	*	*	*	-0.00183			-0.00183	*	no	0.813	-
	TriCB 258	12.48	*	no						*			
17 PCB 17	256	NotFnd	*	*	*	-0.00218			-0.00218	*	no	0.683	-
	TriCB 258	12.69	*	no						*			
18 PCB 27	256	NotFnd	*	*	*	-0.00149			-0.00149	*	no	1.002	-
	TriCB 258	12.78	*	no						*			
19 PCB 24	256	NotFnd	*	*	*	-0.00174			-0.00174	*	no	0.855	-
	TriCB 258	12.86	*	no						*			
20 PCB 16	256	NotFnd	*	*	*	-0.00298			-0.00298	*	no	0.501	-
	TriCB 258	12.90	*	no						*			
21 PCB 32	256	NotFnd	*	*	*	-0.00136			-0.00136	*	no	1.093	-
	TriCB 258	13.13	*	no						*			
22 PCB 34	**256**	**13.74**	**80457**	**1**	**160609**	**0.101005**	**PCB 34 % Rec = 103**		-0.00052	704	no	1.235	-
	TriCB 258	13.74	80153	yes						724			
23 PCB 23	**256**	**13.83**	**78544**	**1.02**	**155675**	**0.117137**	**PCB 23 % Rec = 119**		-0.00062	722	no	1.033	-
	TriCB 258	13.82	77131	yes						745			
24 PCB 26/29	256	NotFnd	*	*	*	-0.00052			-0.00052	*	no	1.221	-
	TriCB 258	13.98	*	no						*			
25 PCB 25	256	NotFnd	*	*	*	-0.00048			-0.00048	*	no	1.334	-
	TriCB 258	14.10	*	no						*			
26 PCB 31	256	NotFnd	*	*	*	-0.00048			-0.00048	*	no	1.335	-
	TriCB 258	14.26	*	no						*			
27 PCB 28/20	256	NotFnd	*	*	*	-0.00053			-0.00053	*	no	1.191	-
	TriCB 258	14.43	*	no						*			
28 PCB 21/33	256	NotFnd	*	*	*	-0.00051			-0.00051	*	no	1.255	-
	TriCB 258	14.53	*	no						*			
29 PCB 22	256	NotFnd	*	*	*	-0.00056			-0.00056	*	no	1.127	-
	TriCB 258	14.76	*	no						*			
30 PCB 36	256	NotFnd	*	*	*	-0.00041			-0.00041	*	no	1.57	-
	TriCB 258	15.60	*	no						*			
31 PCB 39	256	NotFnd	*	*	*	-0.00048			-0.00048	*	no	1.32	-
	TriCB 258	15.83	*	no						*			
32 PCB 38	256	NotFnd	*	*	*	-0.00044			-0.00044	*	no	1.438	-
	TriCB 258	16.18	*	no						*			
33 PCB 35	256	NotFnd	*	*	*	-0.0004			-0.0004	*	no	1.597	-
	TriCB 258	16.45	*	no						*			
34 PCB 37	**256**	**16.70**	**87019**	**1**	**174228**	**0.101236**	**PCB 37 % Rec = 103**		-0.0007	622	no	0.906	-
	TriCB 258	16.70	87210	yes						639			
35 PCB 54	**290**	**13.08**	**31367**	**0.79**	**70998**	**0.10353**	**PCB 54 % Rec = 105**		-0.00077	339	no	0.911	-
	TCB 292	13.08	39631	yes						326			
36 PCB 53/50	290	NotFnd	*	*	*	-0.00199			-0.00199	*	no	0.654	-
	TCB 292	14.11	*	no						*			
37 PCB 45/51	290	NotFnd	*	*	*	-0.00206			-0.00206	*	no	0.633	-
	TCB 292	14.49	*	no						*			
38 PCB 46	290	NotFnd	*	*	*	-0.00235			-0.00235	*	no	0.554	-
	TCB 292	14.64	*	no						*			
39 PCB 52	290	NotFnd	*	*	*	-0.00156			-0.00156	*	no	0.834	-
	TCB 292	15.38	*	no						*			
40 PCB 73	290	NotFnd	*	*	*	-0.0016			-0.0016	*	no	0.813	-
	TCB 292	15.46	*	no						*			
41 PCB 43	290	NotFnd	*	*	*	-0.00253			-0.00253	*	no	0.516	-
	TCB 292	15.52	*	no						*			
42 PCB 69/49	290	NotFnd	*	*	*	-0.00153			-0.00153	*	no	0.851	-
	TCB 292	15.64	*	no						*			

43 PCB 48	290	NotFnd	*	*	*	-0.00194			-0.00194	*	no	0.673	-	
	TCB 292	15.84	*	no						*				
44 PCB 44/47/65	290	NotFnd	*	*	*	-0.00167			-0.00167	*	no	0.783	-	
	TCB 292	15.98	*	no						*				
45 PCB 59/62/75	290	NotFnd	*	*	*	-0.00128			-0.00128	*	no	1.017	-	
	TCB 292	16.16	*	no						*				
46 PCB 42	290	NotFnd	*	*	*	-0.00191			-0.00191	*	no	0.682	-	
	TCB 292	16.29	*	no						*				
47 PCB 40/41/71	290	NotFnd	*	*	*	-0.0018			-0.0018	*	no	0.724	-	
	TCB 292	16.58	*	no						*				
48 PCB 64	290	NotFnd	*	*	*	-0.00141			-0.00141	*	no	0.922	-	
	TCB 292	16.71	*	no						*				
49 PCB 72	290	NotFnd	*	*	*	-0.0013			-0.0013	*	no	1.304	-	
	TCB 292	17.19	*	no						*				
50 PCB 68	290	NotFnd	*	*	*	-0.00139			-0.00139	*	no	1.22	-	
	TCB 292	17.40	*	no						*				
51 PCB 57	290	NotFnd	*	*	*	-0.00139			-0.00139	*	no	1.221	-	
	TCB 292	17.68	*	no						*				
52 PCB 58	290	NotFnd	*	*	*	-0.00164			-0.00164	*	no	1.035	-	
	TCB 292	17.83	*	no						*				
53 PCB 67	290	NotFnd	*	*	*	-0.00126			-0.00126	*	no	1.347	-	
	TCB 292	17.94	*	no						*				
54 PCB 63	290	NotFnd	*	*	*	-0.00135			-0.00135	*	no	1.253	-	
	TCB 292	18.13	*	no						*				
55 PCB 61/70/74/76	290	NotFnd	*	*	*	-0.00153			-0.00153	*	no	1.109	-	
	TCB 292	18.34	*	no						*				
56 PCB 66	290	NotFnd	*	*	*	-0.00137			-0.00137	*	no	1.241	-	
	TCB 292	18.58	*	no						*				
57 PCB 55	290	NotFnd	*	*	*	-0.0017			-0.0017	*	no	0.998	-	
	TCB 292	18.71	*	no						*				
58 PCB 56	290	NotFnd	*	*	*	-0.0017			-0.0017	*	no	0.995	-	
	TCB 292	19.05	*	no						*				
59 PCB 60	290	NotFnd	*	*	*	-0.00171			-0.00171	*	no	0.988	-	
	TCB 292	19.22	*	no						*				
60 PCB 80	290	NotFnd	*	*	*	-0.00138			-0.00138	*	no	1.224	-	
	TCB 292	19.48	*	no						*				
61 PCB 79	290	NotFnd	*	*	*	-0.00116			-0.00116	*	no	1.462	-	
	TCB 292	20.61	*	no						*				
62 PCB 78	290	NotFnd	*	*	*	-0.00132			-0.00132	*	no	1.287	-	
	TCB 292	21.06	*	no						*				
63 PCB 81	**290**	**21.42**	**72559**	**0.76**	**168231**	**0.100282**	**PCB 81 % Rec = 102**		-0.00165	180	no	1.027	-	
	TCB 292	21.42	95673	yes						183				
64 PCB 77	**290**	**21.87**	**72106**	**0.79**	**163808**	**0.096753**	**PCB 77 % Rec = 98**		-0.00157	171	no	1.077	-	
	TCB 292	21.87	91702	yes						175				
65 PCB 104	**326**	**15.94**	**51677**	**1.61**	**83795**	**0.09937**	**PCB 104 % Rec = 101**		-0.00045	553	no	1.094	-	
	PeCB 328	15.94	32118	yes						525				
66 PCB 96	326	NotFnd	*	*	*	-0.00057			-0.00057	*	no	0.874	-	
	PeCB 328	16.16	*	no						*				
67 PCB 103	326	NotFnd	*	*	*	-0.00214			-0.00214	*	no	0.739	-	
	PeCB 328	17.32	*	no						*				
68 PCB 94	326	NotFnd	*	*	*	-0.00293			-0.00293	*	no	0.54	-	
	PeCB 328	17.47	*	no						*				
69 PCB 95	326	NotFnd	*	*	*	-0.00232			-0.00232	*	no	0.683	-	
	PeCB 328	17.77	*	no						*				
70 PCB 100/93/102/98	326	NotFnd	*	*	*	-0.00256			-0.00256	*	no	0.619	-	
	PeCB 328	17.93	*	no						*				
71 PCB 88/91	326	NotFnd	*	*	*	-0.00253			-0.00253	*	no	0.625	-	
	PeCB 328	18.31	*	no						*				
72 PCB 84	326	NotFnd	*	*	*	-0.00297			-0.00297	*	no	0.534	-	
	PeCB 328	18.50	*	no						*				
73 PCB 89	326	NotFnd	*	*	*	-0.00272			-0.00272	*	no	0.582	-	
	PeCB 328	18.84	*	no						*				
74 PCB 121	326	NotFnd	*	*	*	-0.00208			-0.00208	*	no	0.761	-	
	PeCB 328	19.08	*	no						*				
75 PCB 92	326	NotFnd	*	*	*	-0.00265			-0.00265	*	no	0.598	-	
	PeCB 328	19.34	*	no						*				
76 PCB 113/90/101	326	NotFnd	*	*	*	-0.00223			-0.00223	*	no	0.71	-	
	PeCB 328	19.76	*	no						*				
77 PCB 83/99	326	NotFnd	*	*	*	-0.00254			-0.00254	*	no	0.623	-	
	PeCB 328	20.22	*	no						*				
78 PCB 112	326	NotFnd	*	*	*	-0.00193			-0.00193	*	no	0.819	-	
	PeCB 328	20.33	*	no						*				
79 PCB 109/119/86/97/125/	326	NotFnd	*	*	*	-0.00218			-0.00218	*	no	0.726	-	
	PeCB 328	20.62	*	no						*				
80 PCB 117/116/85	326	NotFnd	*	*	*	-0.00199			-0.00199	*	no	0.796	-	
	PeCB 328	21.22	*	no						*				
81 PCB 110/115	326	NotFnd	*	*	*	-0.00211			-0.00211	*	no	0.75	-	
	PeCB 328	21.32	*	no						*				
82 PCB 82	326	NotFnd	*	*	*	-0.00281			-0.00281	*	no	0.564	-	
	PeCB 328	21.59	*	no						*				
83 PCB 111	326	NotFnd	*	*	*	-0.00196			-0.00196	*	no	0.809	-	
	PeCB 328	21.84	*	no						*				
84 PCB 120	326	NotFnd	*	*	*	-0.00167			-0.00167	*	no	0.951	-	
	PeCB 328	22.24	*	no						*				
85 PCB 108/124	326	NotFnd	*	*	*	-0.00064			-0.00064	*	no	1.122	-	
	PeCB 328	23.21	*	no						*				
86 PCB 107	326	NotFnd	*	*	*	-0.00063			-0.00063	*	no	1.147	-	
	PeCB 328	23.39	*	no						*				
87 PCB 123	**326**	**23.50**	**84307**	**1.53**	**139274**	**0.098566**	**PCB 123 % Rec = 100**		-0.0008	369	no	0.894	-	
	PeCB 328	23.51	54967	yes						381				
88 PCB 106	326	NotFnd	*	*	*	-0.00059			-0.00059	*	no	1.218	-	
	PeCB 328	23.63	*	no						*				
89 PCB 118	**326**	**23.79**	**99714**	**1.59**	**162441**	**0.105695**	**PCB 118 % Rec = 107**		-0.00073	432	no	0.981	-	
	PeCB 328	23.80	62727	yes						433				

90 PCB 122		326	NotFnd	*	*	*	-0.00066			-0.00066	*	no	1.079	-
	PeCB	328	24.08	*	no						*			
91 PCB 114		**326**	**24.27**	**88105**	**1.57**	**144319**	**0.098767**	**PCB 114 % Rec = 100**		-0.00071	382	no	1.01	-
	PeCB	328	24.28	56213	yes						373			
92 PCB 105		**326**	**24.84**	**89493**	**1.52**	**148182**	**0.099784**	**PCB 105 % Rec = 101**		-0.00073	377	no	0.977	-
	PeCB	328	24.85	58689	yes						380			
93 PCB 127		326	NotFnd	*	*	*	-0.00058			-0.00058	*	no	1.23	-
	PeCB	328	26.20	*	no						*			
94 PCB 126		**326**	**27.71**	**84160**	**1.54**	**138624**	**0.096804**	**PCB 126 % Rec = 98**		-0.00073	329	no	0.977	-
	PeCB	328	27.72	54464	yes						329			
95 PCB 155		**360**	**19.62**	**49338**	**1.29**	**87625**	**0.103272**	**PCB 155 % Rec = 105**		-0.00033	811	no	0.997	-
	HxCB	362	19.63	38287	yes						774			
96 PCB 152		360	NotFnd	*	*	*	-0.0004			-0.0004	*	no	0.813	-
	HxCB	362	19.78	*	no						*			
97 PCB 150		360	NotFnd	*	*	*	-0.0005			-0.0005	*	no	0.65	-
	HxCB	362	19.88	*	no						*			
98 PCB 136		360	NotFnd	*	*	*	-0.00043			-0.00043	*	no	0.761	-
	HxCB	362	20.17	*	no						*			
99 PCB 145		360	NotFnd	*	*	*	-0.00049			-0.00049	*	no	0.662	-
	HxCB	362	20.41	*	no						*			
100 PCB 148		360	NotFnd	*	*	*	-0.00059			-0.00059	*	no	0.551	-
	HxCB	362	21.55	*	no						*			
101 PCB 151/135		360	NotFnd	*	*	*	-0.00063			-0.00063	*	no	0.519	-
	HxCB	362	22.04	*	no						*			
102 PCB 154		360	NotFnd	*	*	*	-0.00053			-0.00053	*	no	0.618	-
	HxCB	362	22.21	*	no						*			
103 PCB 144		360	NotFnd	*	*	*	-0.00058			-0.00058	*	no	0.562	-
	HxCB	362	22.51	*	no						*			
104 PCB 147/149		360	NotFnd	*	*	*	-0.00133			-0.00133	*	no	0.662	-
	HxCB	362	22.80	*	no						*			
105 PCB 134/143		360	NotFnd	*	*	*	-0.0015			-0.0015	*	no	0.586	-
	HxCB	362	23.06	*	no						*			
106 PCB 139/140		360	NotFnd	*	*	*	-0.00129			-0.00129	*	no	0.68	-
	HxCB	362	23.31	*	no						*			
107 PCB 131		360	NotFnd	*	*	*	-0.00164			-0.00164	*	no	0.537	-
	HxCB	362	23.49	*	no						*			
108 PCB 142		360	NotFnd	*	*	*	-0.00141			-0.00141	*	no	0.626	-
	HxCB	362	23.64	*	no						*			
109 PCB 132		360	NotFnd	*	*	*	-0.00157			-0.00157	*	no	0.561	-
	HxCB	362	23.88	*	no						*			
110 PCB 133		360	NotFnd	*	*	*	-0.00134			-0.00134	*	no	0.657	-
	HxCB	362	24.31	*	no						*			
111 PCB 165		360	NotFnd	*	*	*	-0.00115			-0.00115	*	no	0.765	-
	HxCB	362	24.66	*	no						*			
112 PCB 146		360	NotFnd	*	*	*	-0.00125			-0.00125	*	no	0.705	-
	HxCB	362	24.86	*	no						*			
113 PCB 161		360	NotFnd	*	*	*	-0.00091			-0.00091	*	no	0.97	-
	HxCB	362	25.01	*	no						*			
114 PCB 153/168		360	NotFnd	*	*	*	-0.00103			-0.00103	*	no	0.852	-
	HxCB	362	25.45	*	no						*			
115 PCB 141		360	NotFnd	*	*	*	-0.00129			-0.00129	*	no	0.681	-
	HxCB	362	25.60	*	no						*			
116 PCB 130		360	NotFnd	*	*	*	-0.00143			-0.00143	*	no	0.617	-
	HxCB	362	25.99	*	no						*			
117 PCB 137		360	NotFnd	*	*	*	-0.00145			-0.00145	*	no	0.607	-
	HxCB	362	26.19	*	no						*			
118 PCB 164		360	NotFnd	*	*	*	-0.00096			-0.00096	*	no	0.913	-
	HxCB	362	26.28	*	no						*			
119 PCB 138/163/129		360	NotFnd	*	*	*	-0.00125			-0.00125	*	no	0.705	-
	HxCB	362	26.60	*	no						*			
120 PCB 160		360	NotFnd	*	*	*	-0.00107			-0.00107	*	no	0.822	-
	HxCB	362	26.78	*	no						*			
121 PCB 158		360	NotFnd	*	*	*	-0.00088			-0.00088	*	no	1.004	-
	HxCB	362	26.96	*	no						*			
122 PCB 128/166		360	NotFnd	*	*	*	-0.00114			-0.00114	*	no	0.774	-
	HxCB	362	27.78	*	no						*			
123 PCB 159		360	NotFnd	*	*	*	-0.00098			-0.00098	*	no	1.179	-
	HxCB	362	28.76	*	no						*			
124 PCB 162		360	NotFnd	*	*	*	-0.00105			-0.00105	*	no	1.101	-
	HxCB	362	29.05	*	no						*			
125 PCB 167		**360**	**29.53**	**85942**	**1.27**	**153458**	**0.099104**	**PCB 167 % Rec = 101**		-0.00123	263	no	0.946	-
	HxCB	362	29.52	67516	yes						250			
126 PCB 156/157		**360**	**30.69**	**178506**	**1.29**	**316919**	**0.1983**	**CB 156/157 % Rec = 101**		-0.00114	446	no	1.017	-
	HxCB	362	30.71	138413	yes						437			
127 PCB 169		**360**	**34.10**	**58182**	**1.29**	**103236**	**0.098082**	**PCB 169 % Rec = 100**		-0.00122	164	no	0.954	-
	HxCB	362	34.11	45054	yes						159			
128 PCB 188		**394**	**24.22**	**46330**	**1.07**	**89843**	**0.101491**	**PCB 188 % Rec = 103**		-0.0014	180	no	1.012	-
	HpCB	396	24.22	43513	yes						178			
129 PCB 179		394	NotFnd	*	*	*	-0.00135			-0.00135	*	no	1.047	-
	HpCB	396	24.51	*	no						*			
130 PCB 184		394	NotFnd	*	*	*	-0.00148			-0.00148	*	no	0.961	-
	HpCB	396	25.00	*	no						*			
131 PCB 176		394	NotFnd	*	*	*	-0.00138			-0.00138	*	no	1.027	-
	HpCB	396	25.31	*	no						*			
132 PCB 186		394	NotFnd	*	*	*	-0.00158			-0.00158	*	no	0.899	-
	HpCB	396	25.75	*	no						*			
133 PCB 178		394	NotFnd	*	*	*	-0.00196			-0.00196	*	no	0.722	-
	HpCB	396	27.01	*	no						*			
134 PCB 175		394	NotFnd	*	*	*	-0.00188			-0.00188	*	no	0.753	-
	HpCB	396	27.61	*	no						*			
135 PCB 187		**394**	**27.87**	**35892**	**1.06**	**69891**	**0.092084**	**PCB 187 % Rec = 93**		-0.00196	130	no	0.723	-
	HpCB	396	27.88	33999	yes						129			
136 PCB 182		**394**	**28.07**	**34461**	**1.08**	**66388**	**0.084669**	**PCB 182 % Rec = 86**		-0.0019	125	no	0.747	-
	HpCB	396	28.10	31927	yes						123			

137	PCB 183		394	NotFnd	*	*	*	-0.00195			-0.00195	*	no	1.162	-
		HpCB	396	28.50	*	no						*			
138	PCB 185		394	NotFnd	*	*	*	-0.00266			-0.00266	*	no	0.851	-
		HpCB	396	28.56	*	no						*			
139	PCB 174		394	NotFnd	*	*	*	-0.00233			-0.00233	*	no	0.97	-
		HpCB	396	28.72	*	no						*			
140	PCB 177		394	NotFnd	*	*	*	-0.0024			-0.0024	*	no	0.943	-
		HpCB	396	29.14	*	no						*			
141	PCB 181		394	NotFnd	*	*	*	-0.00254			-0.00254	*	no	0.892	-
		HpCB	396	29.56	*	no						*			
142	PCB 171/173		394	NotFnd	*	*	*	-0.00239			-0.00239	*	no	0.948	-
		HpCB	396	29.78	*	no						*			
143	PCB 172		394	NotFnd	*	*	*	-0.00238			-0.00238	*	no	0.95	-
		HpCB	396	31.42	*	no						*			
144	PCB 192		394	NotFnd	*	*	*	-0.00208			-0.00208	*	no	1.085	-
		HpCB	396	31.74	*	no						*			
145	**PCB 193/180**		**394**	**32.13**	**52516**	**1.09**	**100641**	**0.08362**	**PCB 193/180 % Rec = 85**		-0.00164	118	no	1.383	-
		HpCB	396	32.06	48124	yes						115			
146	PCB 191		394	NotFnd	*	*	*	-0.00167			-0.00167	*	no	1.352	-
		HpCB	396	32.47	*	no						*			
147	**PCB 170**		**394**	**33.45**	**51802**	**1.08**	**99888**	**0.102217**	**PCB 170 % Rec = 104**		-0.00178	115	no	1.271	-
		HpCB	396	33.45	48086	yes						111			
148	PCB 190		394	NotFnd	*	*	*	-0.00168			-0.00168	*	no	1.345	-
		HpCB	396	34.02	*	no						*			
149	**PCB 189**		**394**	**36.86**	**76886**	**1.05**	**150082**	**0.094497**	**PCB 189 % Rec = 96**		-0.00051	462	no	0.944	-
		HpCB	396	36.88	73196	yes						464			
150	**PCB 202**		**428**	**29.26**	**38279**	**0.92**	**79888**	**0.100067**	**PCB 202 % Rec = 102**		-0.00235	122	no	0.988	-
		OcCB	430	29.26	41610	yes						120			
151	PCB 201		428	NotFnd	*	*	*	-0.00232			-0.00232	*	no	0.997	-
		OcCB	430	30.16	*	no						*			
152	PCB 204		428	NotFnd	*	*	*	-0.00241			-0.00241	*	no	0.962	-
		OcCB	430	30.86	*	no						*			
153	PCB 197		428	NotFnd	*	*	*	-0.00265			-0.00265	*	no	0.876	-
		OcCB	430	31.10	*	no						*			
154	PCB 200		428	NotFnd	*	*	*	-0.0023			-0.0023	*	no	1.006	-
		OcCB	430	31.21	*	no						*			
155	PCB 198/199		428	NotFnd	*	*	*	-0.00354			-0.00354	*	no	0.654	-
		OcCB	430	34.17	*	no						*			
156	PCB 196		428	NotFnd	*	*	*	-0.00344			-0.00344	*	no	0.674	-
		OcCB	430	34.92	*	no						*			
157	PCB 203		428	NotFnd	*	*	*	-0.00352			-0.00352	*	no	0.659	-
		OcCB	430	35.12	*	no						*			
158	PCB 195		428	NotFnd	*	*	*	-0.00145			-0.00145	*	no	1.005	-
		OcCB	430	36.59	*	no						*			
159	PCB 194		428	NotFnd	*	*	*	-0.00134			-0.00134	*	no	1.091	-
		OcCB	430	39.21	*	no						*			
160	**PCB 205**		**428**	**39.75**	**58448**	**0.92**	**121748**	**0.095069**	**PCB 205 % Rec = 96**		-0.00134	195	no	1.091	-
		OcCB	430	39.77	63299	yes						189			
161	**PCB 208**		**462**	**36.31**	**33937**	**0.79**	**76701**	**0.096369**	**PCB 208 % Rec = 98**		-0.00287	87	no	1.023	-
		NoCB	464	36.33	42764	yes						86			
162	PCB 207		462	NotFnd	*	*	*	-0.00222			-0.00222	*	no	1.32	-
		NoCB	464	37.34	*	no						*			
163	**PCB 206**		**462**	**41.72**	**25837**	**0.81**	**57750**	**0.098373**	**PCB 206 % Rec = 100**		-0.00286	63	yes	1.027	-
		NoCB	464	41.70	31913	yes						60			
164	**PCB 209**		**498**	**43.56**	**48248**	**1.21**	**88102**	**0.150934**	**PCB 209 % Rec = 153**		-0.00241	156	no	1.04	-
		DCB	500	43.54	39854	yes						150			
165	**PCB 1L**		**200**	**8.97**	**186634**	**3.43**	**240966**	**0.13916**			0	7356	no	0.824	71
			202	8.97	54332	yes						508			
166	**PCB 3L**		**200**	**10.17**	**183840**	**3.53**	**235873**	**0.131653**			0	7295	no	0.852	67
			202	10.15	52033	yes						503			
167	**PCB 4L**		**234**	**10.28**	**71551**	**1.64**	**115166**	**0.100971**			0	3089	no	0.543	51
			236	10.28	43616	yes						3618			
168	**PCB 15L**		**234**	**12.93**	**221349**	**1.67**	**353589**	**0.156579**			0	2336	no	1.074	79
			236	12.90	132240	yes						2393			
169	**PCB 19L**		**268**	**11.67**	**68721**	**1.07**	**132771**	**0.109238**			0.001	253	no	0.578	55
			270	11.65	64050	yes						408			
170	**PCB 37L**		**268**	**16.68**	**192188**	**1.05**	**374559**	**0.192426**			0.001	608	no	1.987	98
			270	16.68	182371	yes						818			
171	**PCB 54L**		**302**	**13.06**	**64774**	**0.77**	**148422**	**0.116761**			0	1359	no	1.297	59
			304	13.07	83648	yes						3021			
172	**PCB 81L**		**302**	**21.40**	**140457**	**0.77**	**321928**	**0.189054**			0	689	no	1.738	96
			304	21.42	181472	yes						1897			
173	**PCB 77L**		**302**	**21.85**	**136756**	**0.79**	**309729**	**0.188485**			0	663	no	1.677	96
			304	21.84	172973	yes						1798			
174	**PCB 104L**		**338**	**15.92**	**94295**	**1.64**	**151857**	**0.14862**			0	8636	no	1.156	75
			340	15.93	57562	yes						4072			
175	**PCB 123L**		**338**	**23.49**	**193419**	**1.64**	**311321**	**0.18189**			0	2977	no	1.936	92
			340	23.50	117901	yes						1128			
176	**PCB 118L**		**338**	**23.77**	**191062**	**1.63**	**308592**	**0.183139**			0	2878	no	1.906	93
			340	23.76	117530	yes						1095			
177	**PCB 114L**		**338**	**24.25**	**176019**	**1.62**	**285038**	**0.181847**			0	2653	no	1.773	92
			340	24.25	109018	yes						1023			
178	**PCB 105L**		**338**	**24.82**	**186139**	**1.64**	**299697**	**0.185999**			0	2710	no	1.822	94
			340	24.81	113558	yes						1027			
179	**PCB 126L**		**338**	**27.69**	**176054**	**1.56**	**288969**	**0.188323**			0	2427	no	1.735	96
			340	27.67	112914	yes						935			
180	**PCB 155L**		**372**	**19.60**	**95211**	**1.31**	**167787**	**0.135937**			0	10699	no	1.404	69
			374	19.61	72576	yes						8352			
181	**PCB 167L**		**372**	**29.50**	**182028**	**1.29**	**322626**	**0.173878**			0	1672	no	2.11	88
			374	29.49	140598	yes						1791			
182	**PCB 156L/157L**		**372**	**30.68**	**347677**	**1.28**	**619343**	**0.366625**			0	2610	no	1.921	93
			374	30.69	271666	yes						2789			
183	**PCB 169L**		**372**	**34.08**	**121024**	**1.26**	**217333**	**0.131015**			0	1030	no	1.886	66
			374	34.06	96309	yes						1120			

184	**PCB 188L**	**406**	**24.20**	**90097**	**1.1**	**172400**	**0.147464**		0	4124	no	1.329	75
		408	24.20	82303	yes					4848			
185	**PCB 180L**	**406**	**32.09**	**88222**	**1.06**	**171558**	**0.146066**		0	2668	no	1.349	74
		408	32.09	83335	yes					2927			
186	**PCB 170L**	**406**	**33.42**	**78781**	**1.08**	**151527**	**0.147424**		0	2374	no	1.18	75
		408	33.42	72745	yes					2550			
187	**PCB 189L**	**406**	**36.84**	**169960**	**1.05**	**331651**	**0.176516**		0	3263	no	2.157	90
		408	36.83	161691	yes					3326			
188	**PCB 202L**	**440**	**29.23**	**76122**	**0.92**	**159314**	**0.128868**		0	1239	no	1.419	65
		442	29.27	83192	yes					4366			
189	**PCB 205L**	**440**	**39.73**	**109680**	**0.9**	**231420**	**0.173519**		0	1960	no	1.531	88
		442	39.73	121739	yes					3040			
190	**PCB 208L**	**474**	**36.29**	**67396**	**0.79**	**153257**	**0.154435**		0	2906	no	1.139	78
		476	36.28	85861	yes					3275			
191	**PCB 206L**	**474**	**41.70**	**50718**	**0.82**	**112694**	**0.170354**		0	2123	yes	0.76	86
		476	41.73	61976	yes					2294			
192	**PCB 209L**	**510**	**43.54**	**59886**	**1.18**	**110623**	**0.175358**		0	2867	no	0.724	89
		512	43.53	50737	yes					2564			
193	**PCB 28L**	**268**	**14.40**	**218785**	**1.02**	**433179**	**0.216786**		0.001	765	no	2.039	110
	PCB Cleanup Standard	270	14.43	214394	yes					1050			
194	**PCB 111L**	**338**	**21.83**	**142741**	**1.65**	**229196**	**0.193014**		0	2700	no	1.343	98
	PCB Cleanup Standard	340	21.84	86455	yes					3741			
195	**PCB 178L**	**406**	**26.98**	**62179**	**1.05**	**121164**	**0.18798**		0	2755	no	0.733	95
	PCB Cleanup Standard	408	26.97	58985	yes					3298			
196	PCB 31L	268	NotFnd	*	*	*			0.001		no	1.934	
	PCB Audit Standard	270	14.26	*	no								
197	PCB 95L	338	NotFnd	*	*	*			0		no	0.946	
	PCB Audit Standard	340	17.73	*	no								
198	PCB 153L	372	NotFnd	*	*	*			0		no	1.225	
	PCB Audit Standard	374	25.40	*	no								
199	**PCB 9L**	**234**	**11.17**	**1277432**	**1.61**	**2071206**	**10.47559**		-	14544	no	-	-
	PCB Recovery Standard	236	11.19	793774	yes					15490			
200	**PCB 52L**	**302**	**15.36**	**426502**	**0.79**	**965508**	**7.547621**		-	6608	no	-	-
	PCB Recovery Standard	304	15.36	539007	yes					15037			
201	**PCB 101L**	**338**	**19.76**	**536293**	**1.6**	**871224**	**7.826917**		-	10730	no	-	-
	PCB Recovery Standard	340	19.76	334931	yes					15254			
202	**PCB 138L**	**372**	**26.57**	**490588**	**1.3**	**866568**	**7.942725**		-	17221	no	-	-
	PCB Recovery Standard	374	26.56	375980	yes					12028			
203	**PCB 194L**	**440**	**39.18**	**416339**	**0.94**	**858204**	**7.832604**		-	7345	no	-	-
	PCB Recovery Standard	442	39.17	441866	yes					11222			

Chlorobiphenyls	0.205094	2	-0.00081
Dichlorobiphenyls	0.214317	2	-0.00457
Trichlorobiphenyls	0.426314	4	-0.00298
Tetrachlorobiphenyls	0.300565	3	-0.00253
Pentachlorobiphenyls	0.598986	6	-0.00297
Hexachlorobiphenyls	0.498758	4	-0.00164
Heptachlorobiphenyls	0.558578	6	-0.00266
Octachlorobiphenyls	0.195136	2	-0.00354
Nonachlorobiphenyls	0.194742	2	-0.00287
Decachlorobiphenyl	0.150934	1	-0.00241
PCB (total)	3.343424		

Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 19, 2016 05:14:04 PM Eastern Standard Time
Printed: February 19, 2016 05:17:01 PM Eastern Standard Time

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ID: WS#4386412/4378609, Ti
Description: SPIKE:D1
Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

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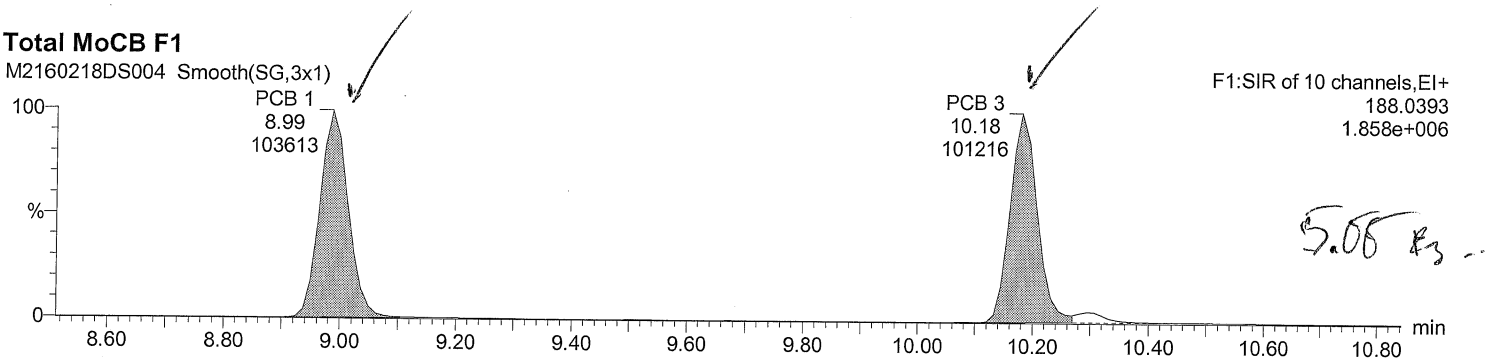

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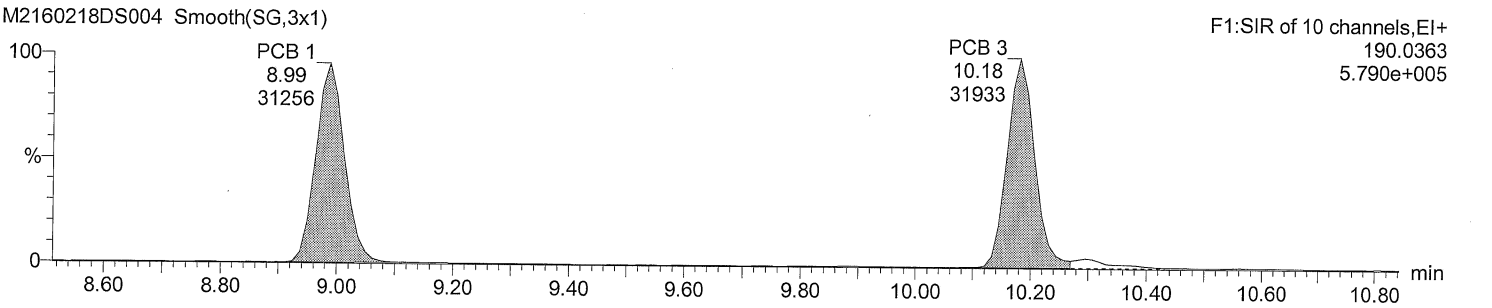

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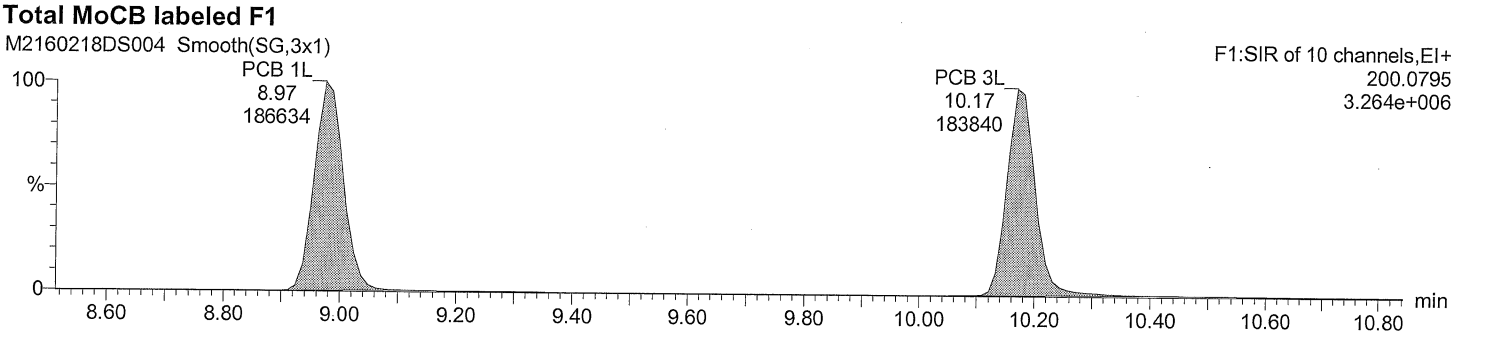

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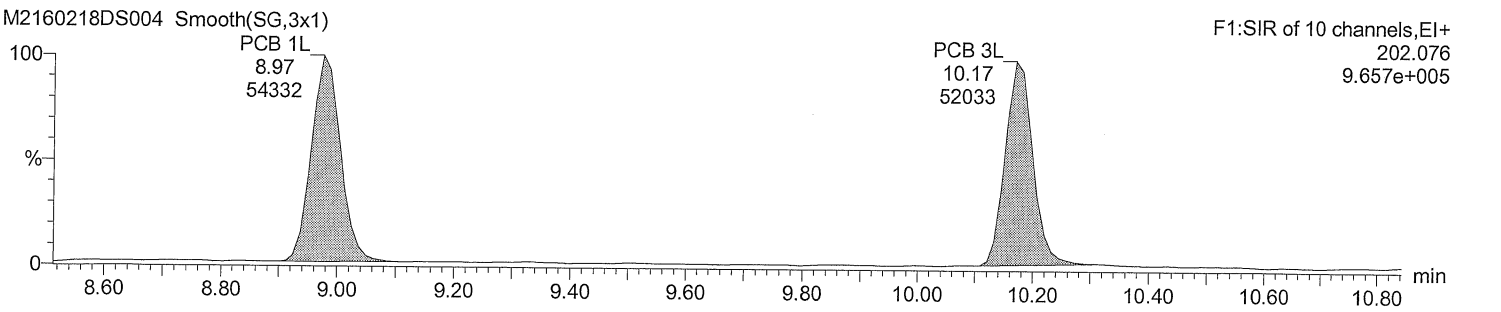

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Printed: February 19, 2016 05:17:01 PM Eastern Standard Time

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Description: SPIKE:D1
Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

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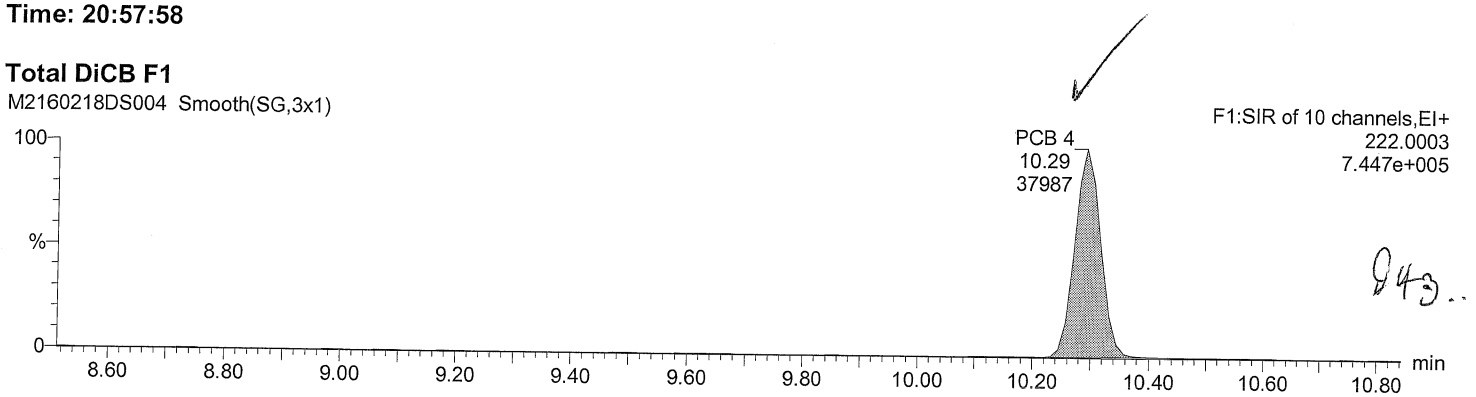

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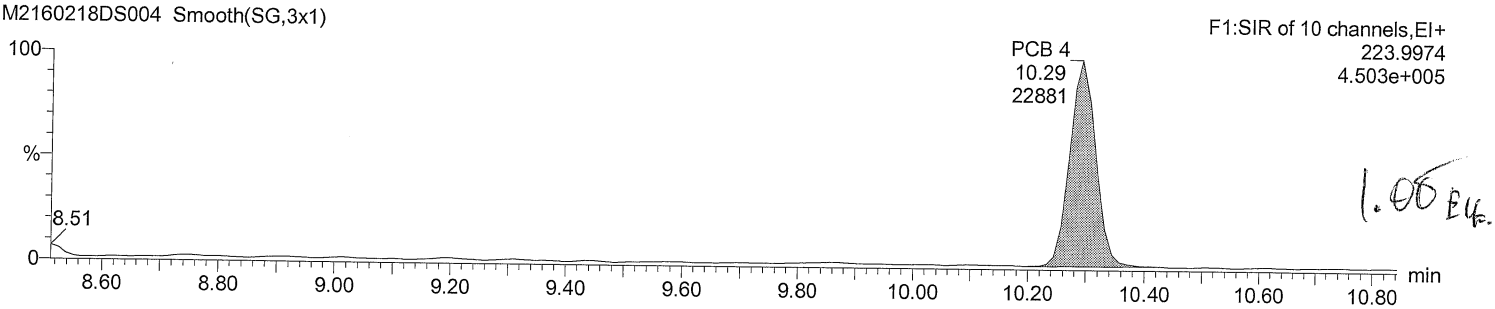

1.06 E4

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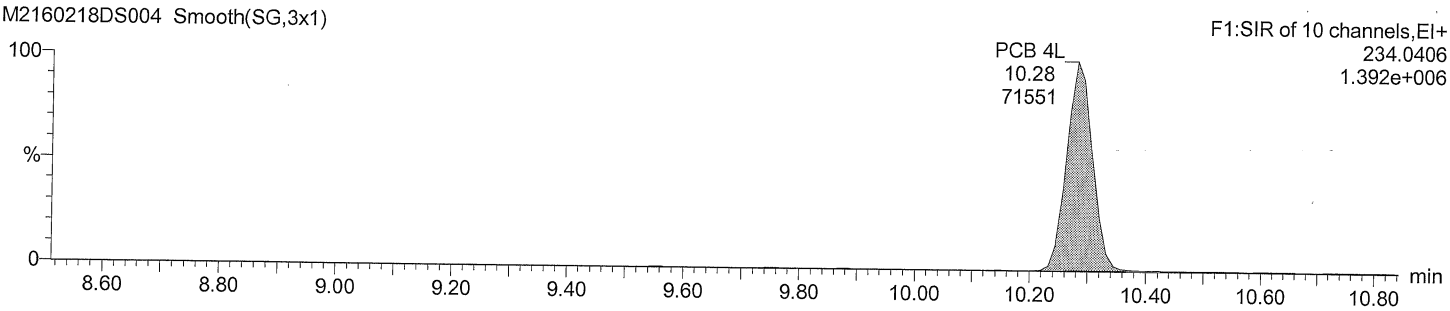

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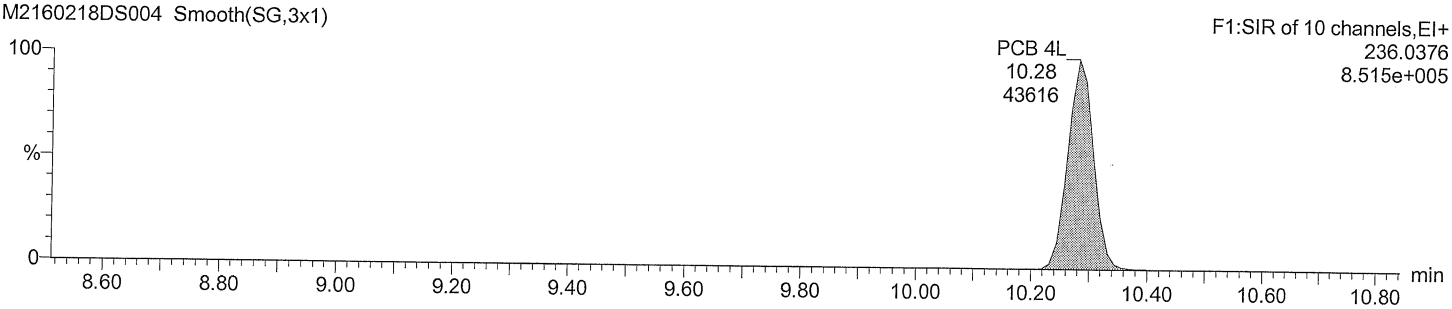

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Description: SPIKE:D1
Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

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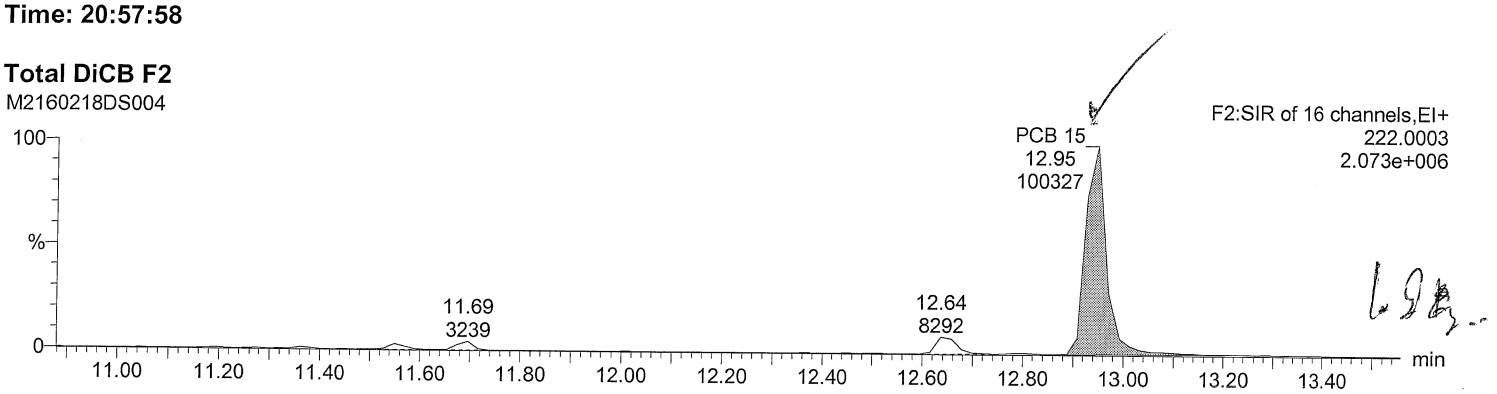

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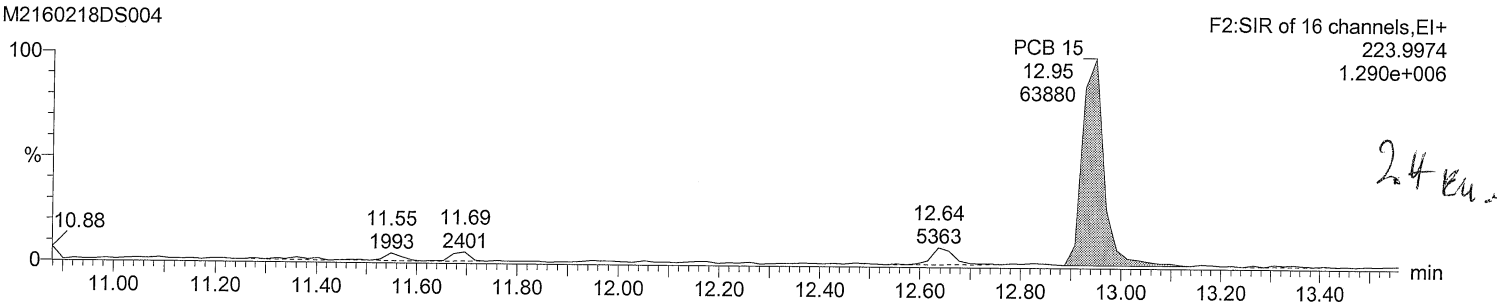

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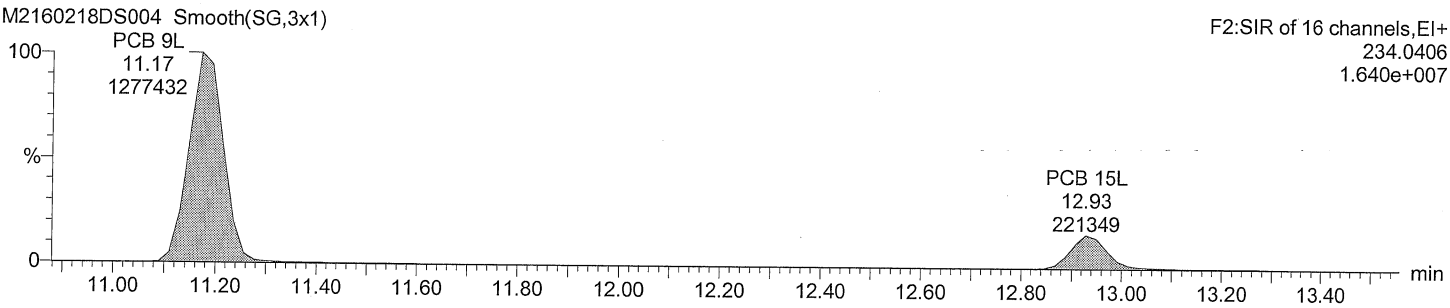

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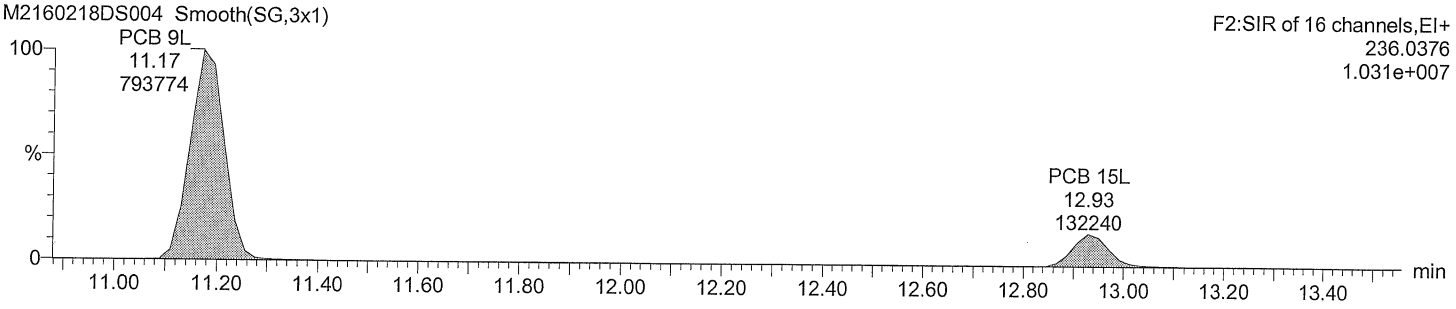

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Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

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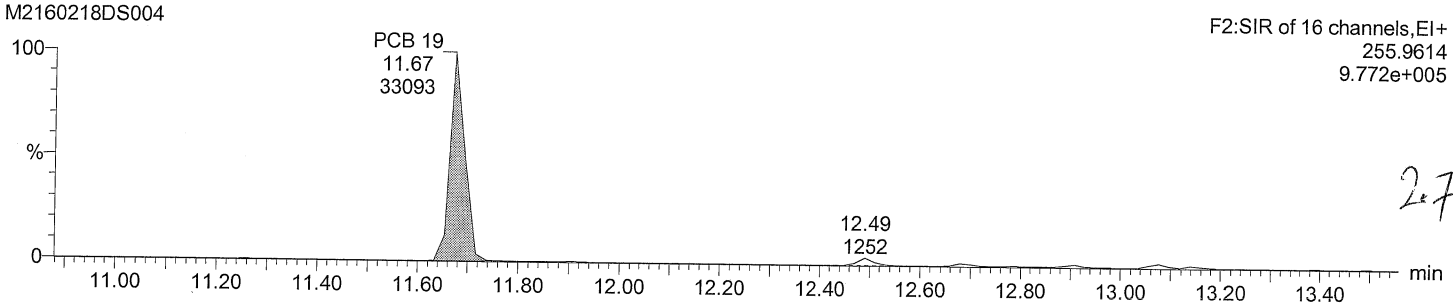

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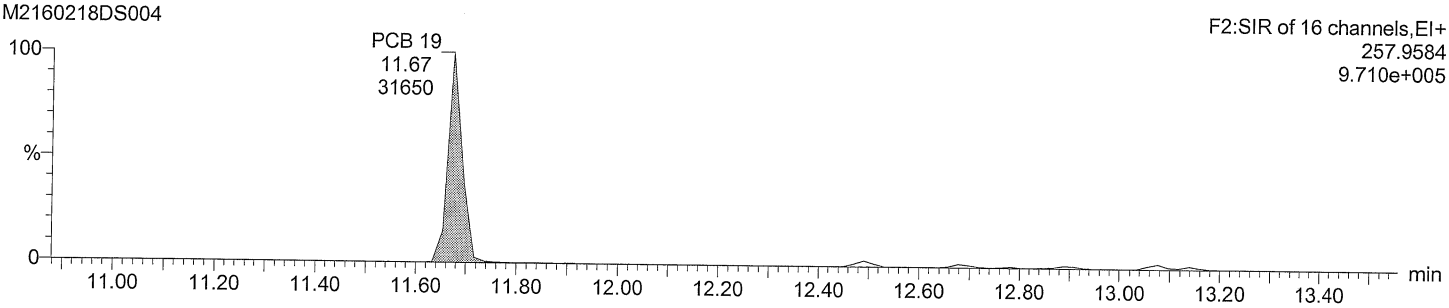

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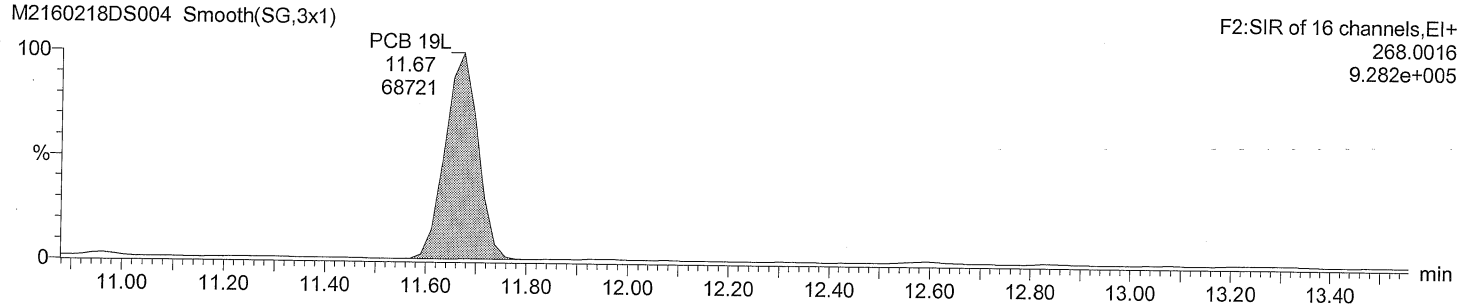

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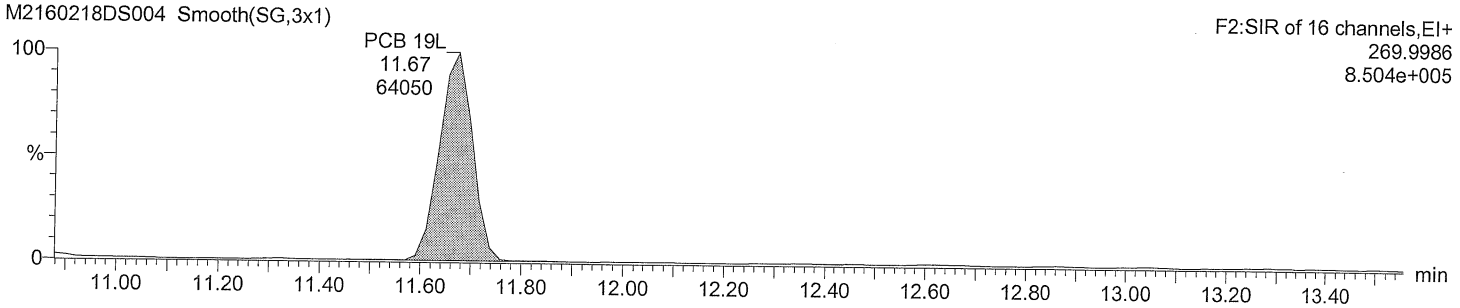

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Printed: February 19, 2016 05:17:01 PM Eastern Standard Time

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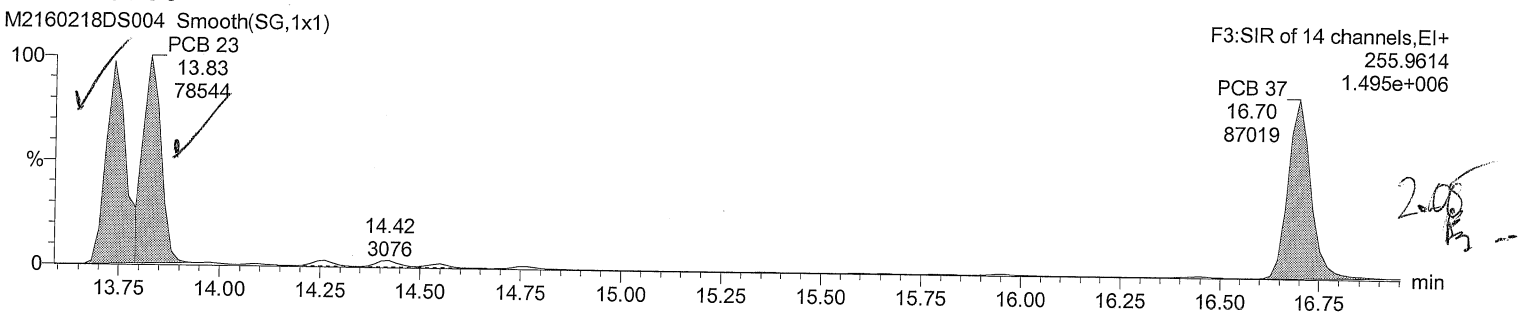
Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

Total TriCB F3



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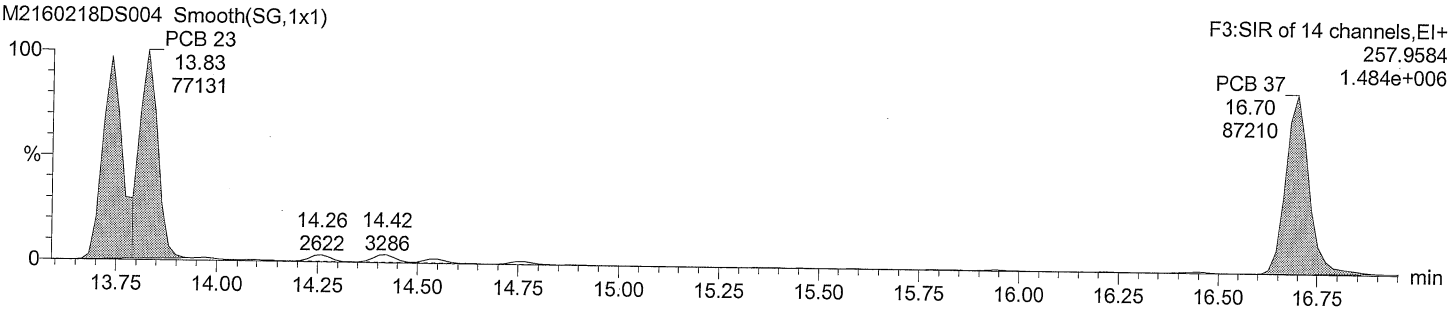

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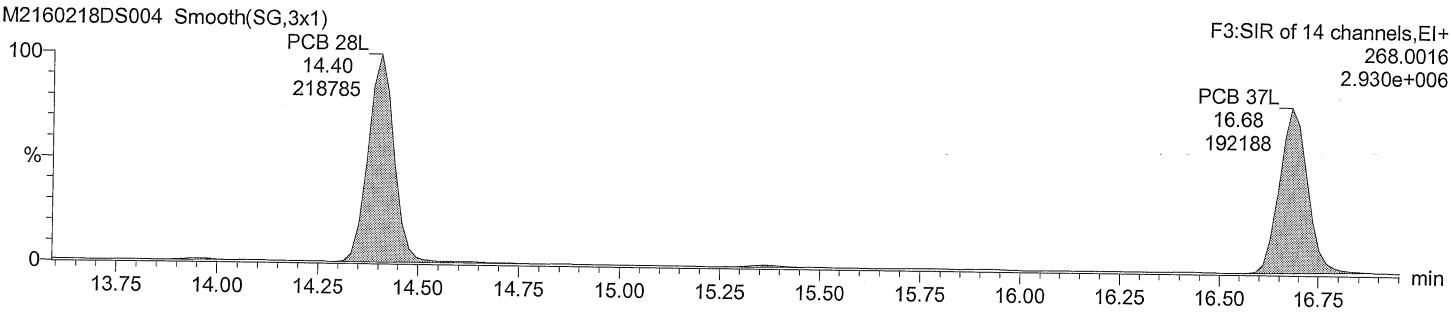

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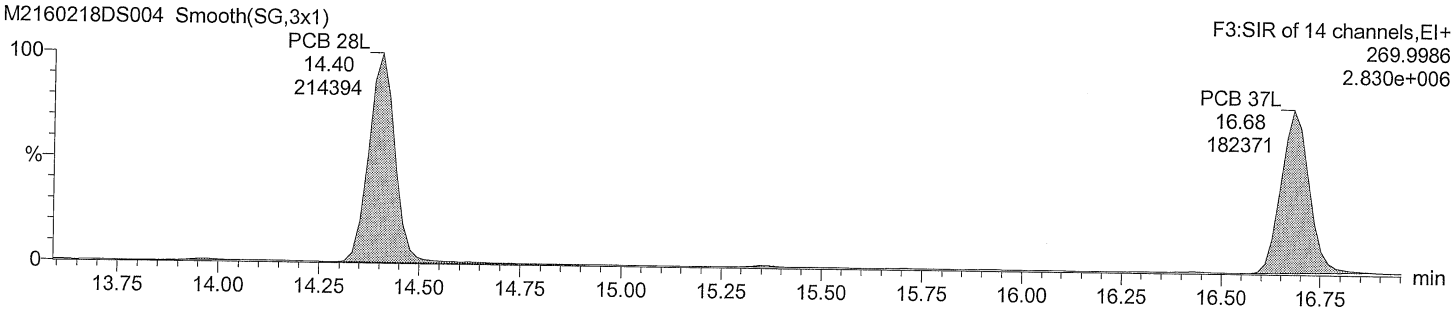

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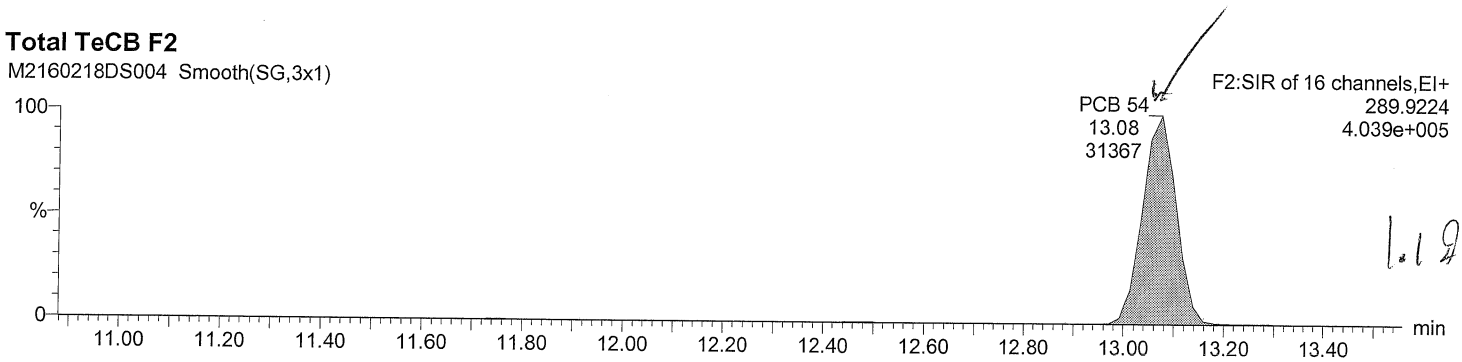
Printed: February 19, 2016 05:17:01 PM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: SPIKE:D1
Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

Total TeCB F2
M2160218DS004 Smooth(SG,3x1)



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Total TeCB F2
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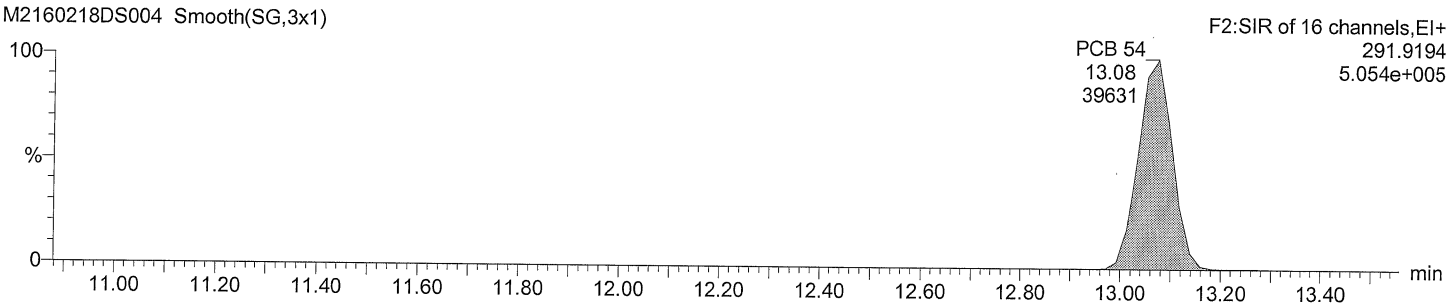

Total TeCB labeled F2
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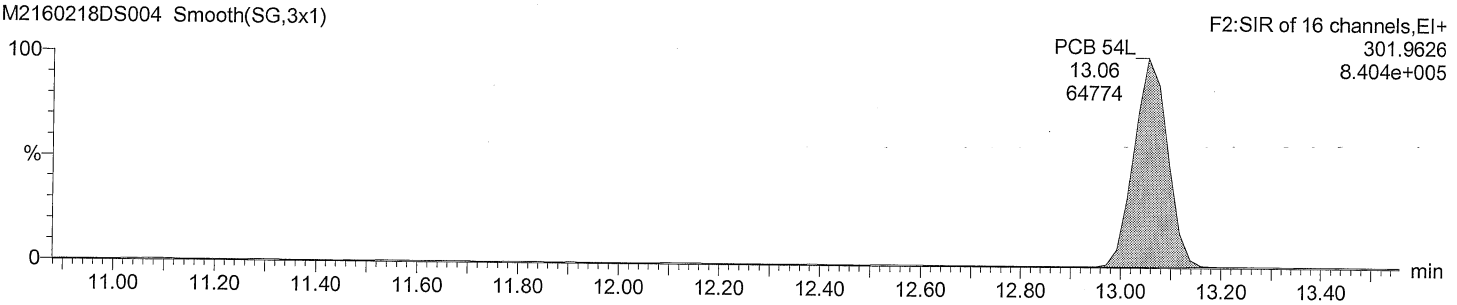

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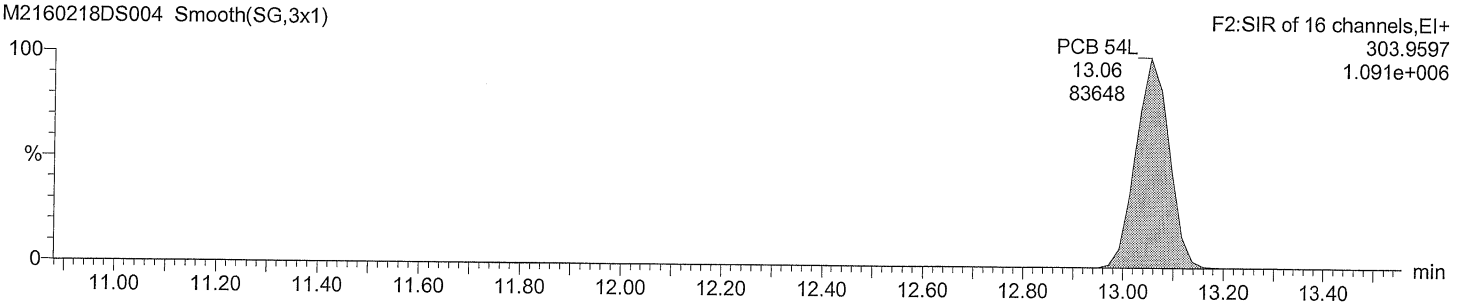

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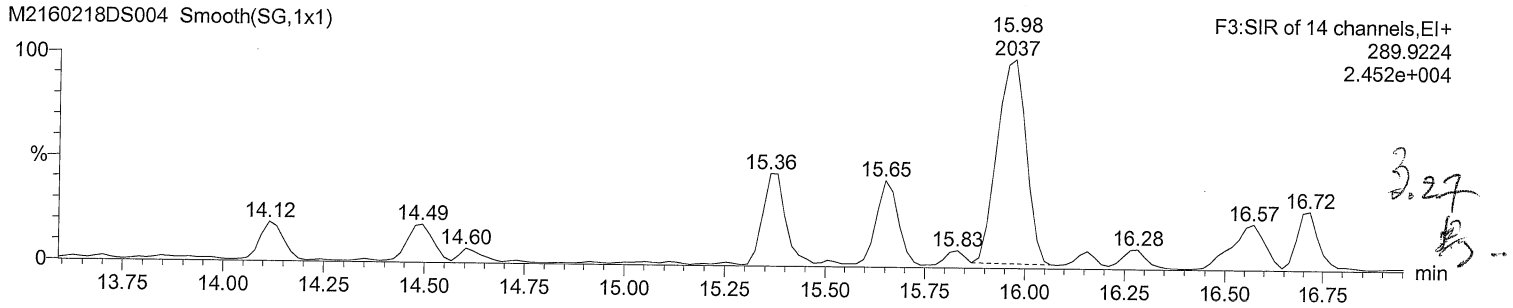
Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

Total TeCB F3



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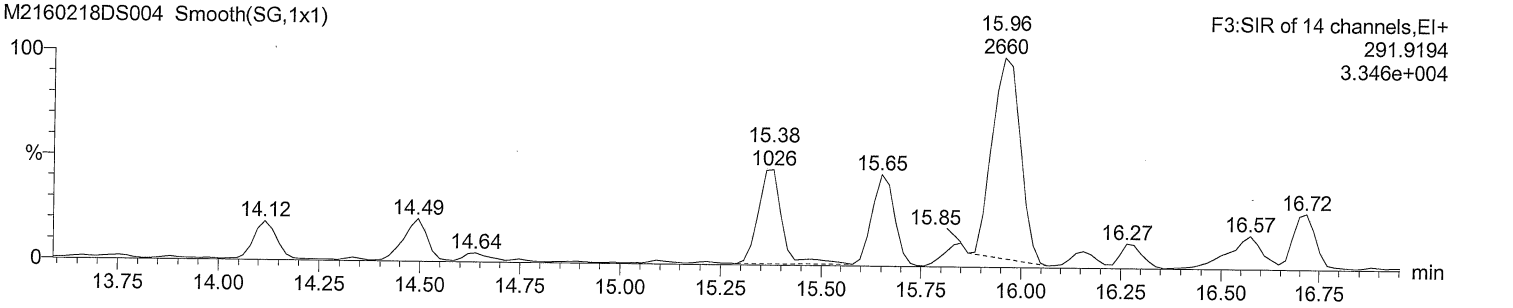

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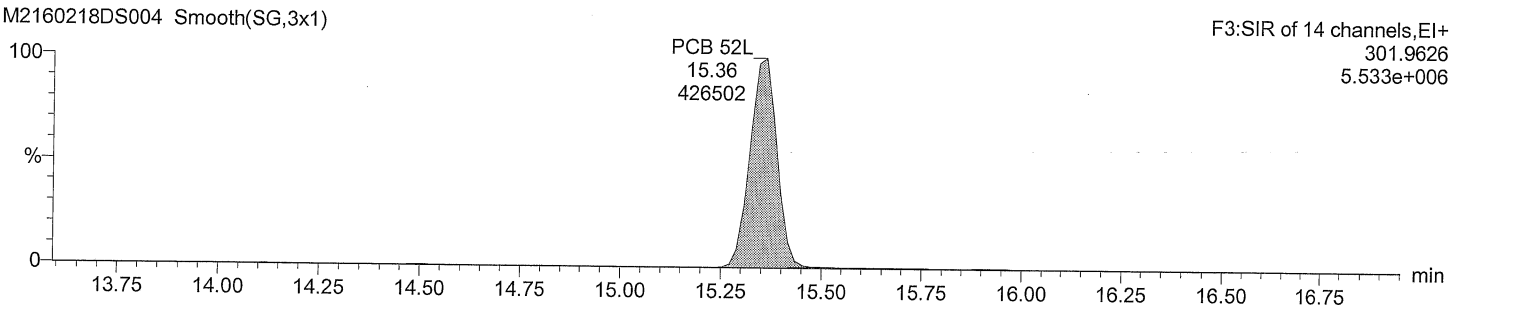

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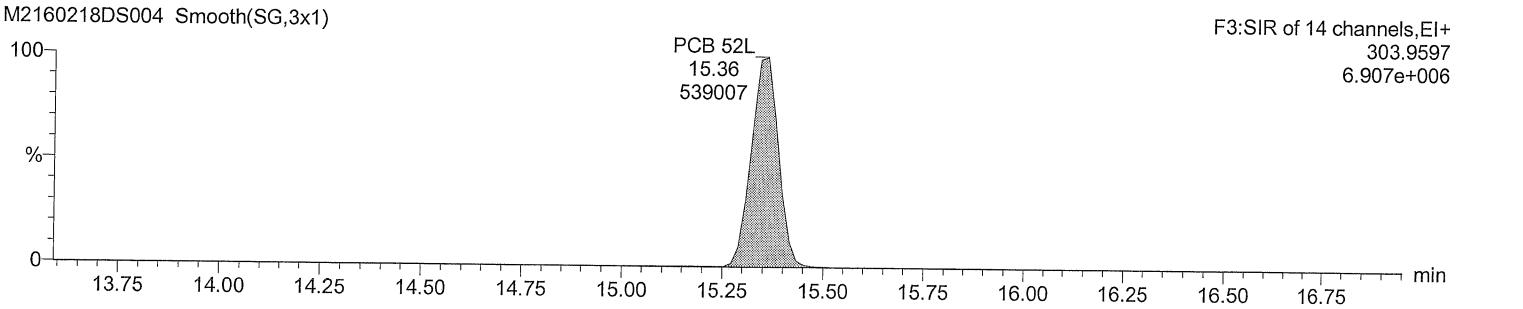

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ID: WS#4386412/4378609, Ti
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Time: 20:57:58

Total TeCB F4
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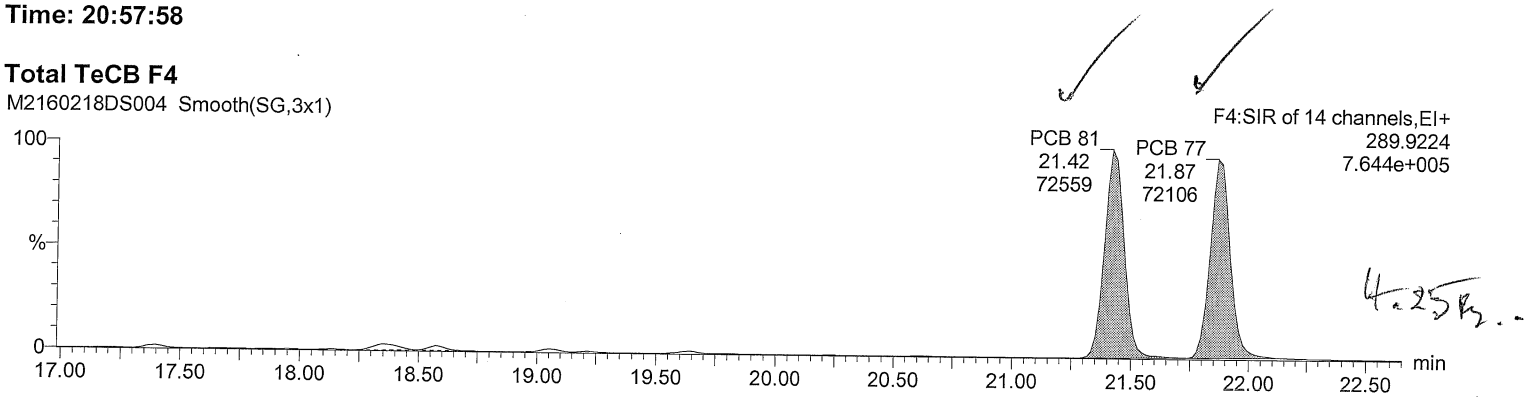

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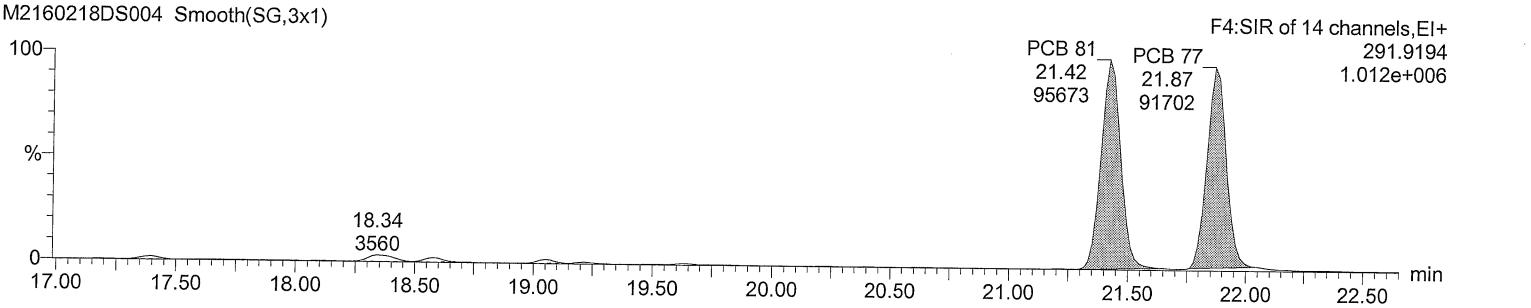

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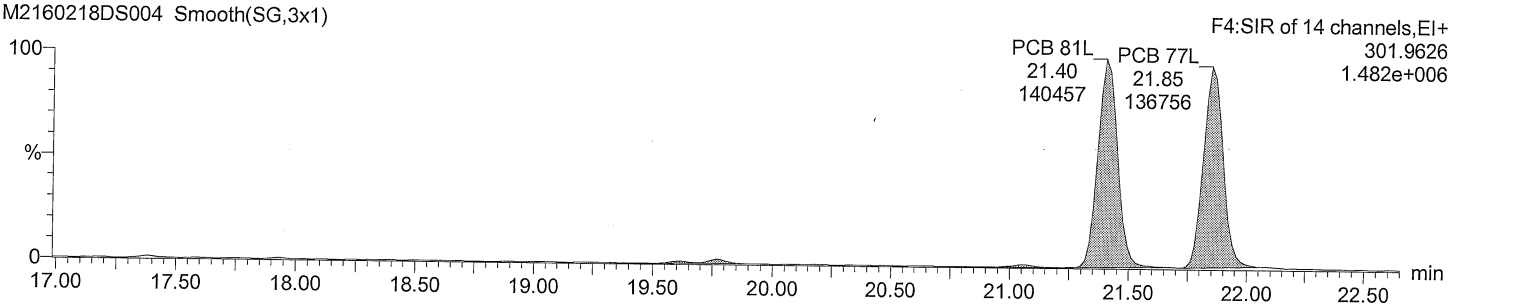

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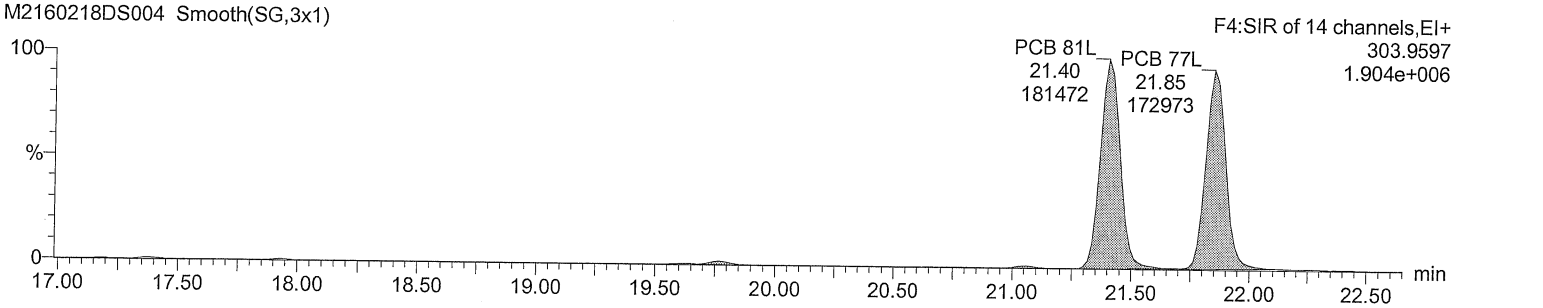

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Vial: 4
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Total PeCB F3
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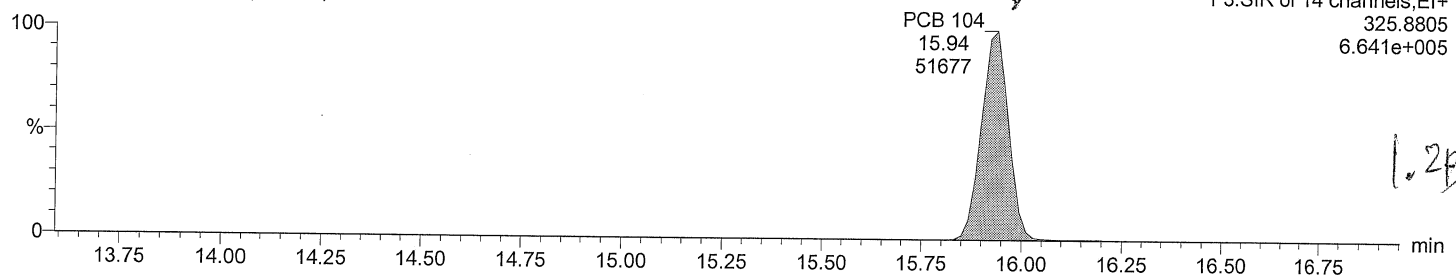

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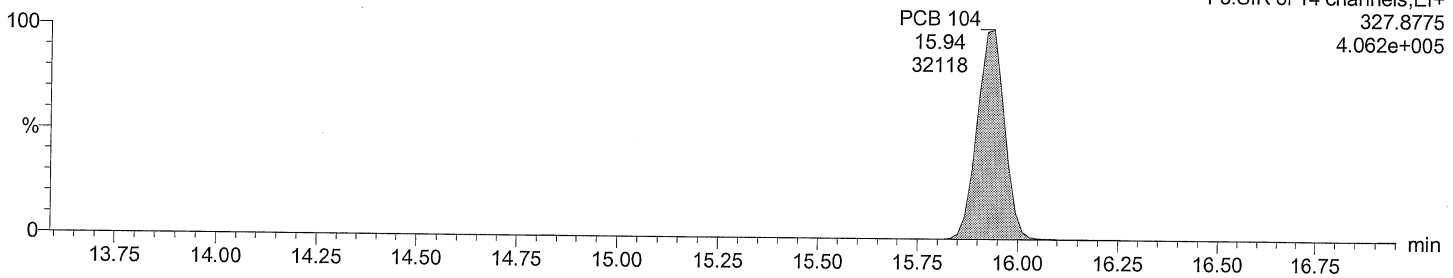

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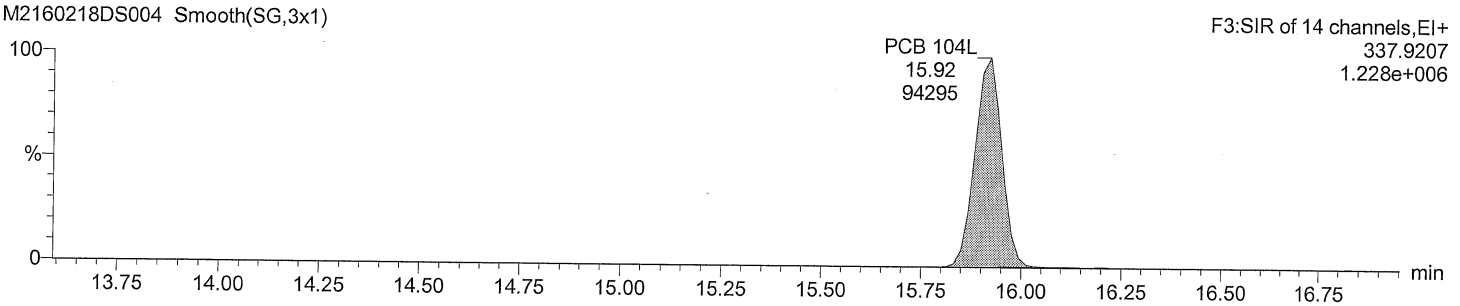

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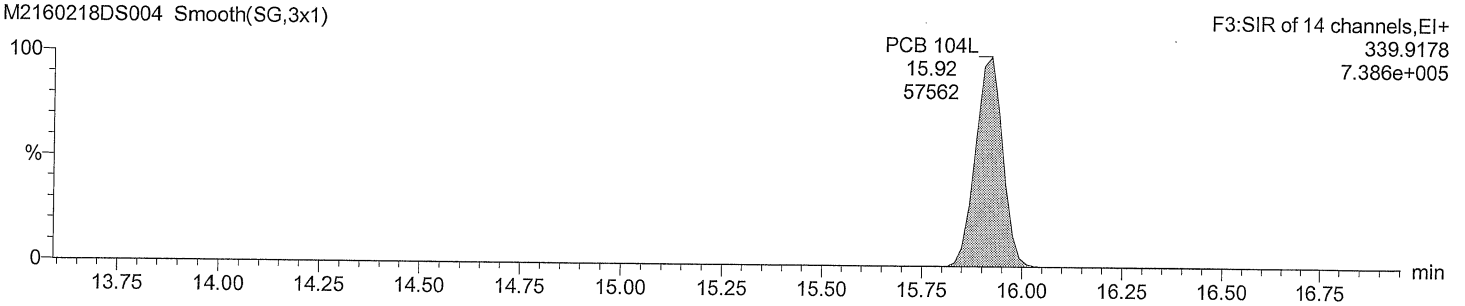

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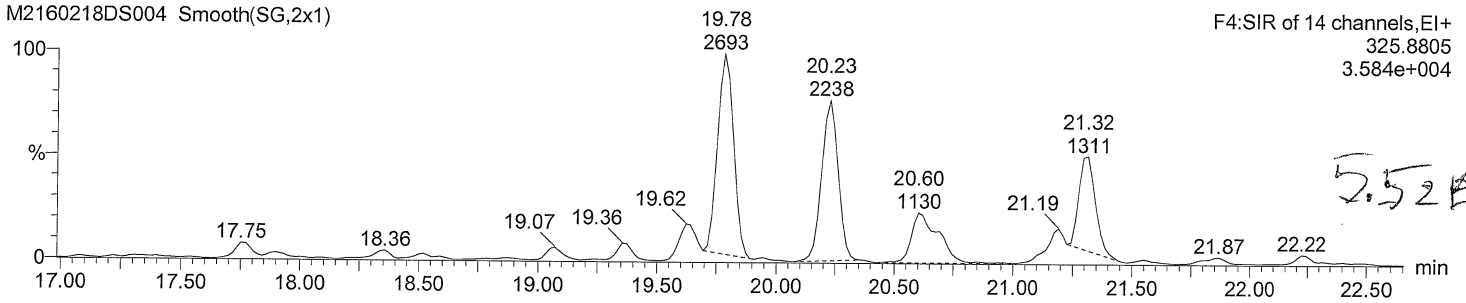
Total PeCB F4



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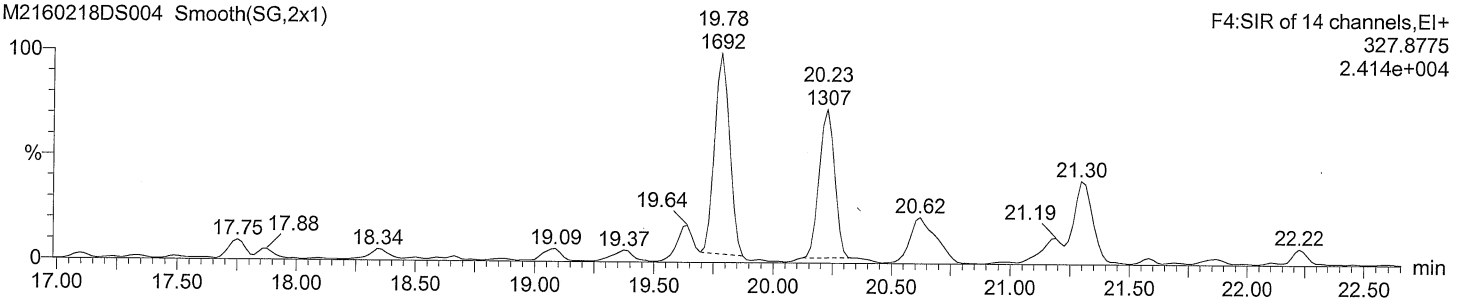

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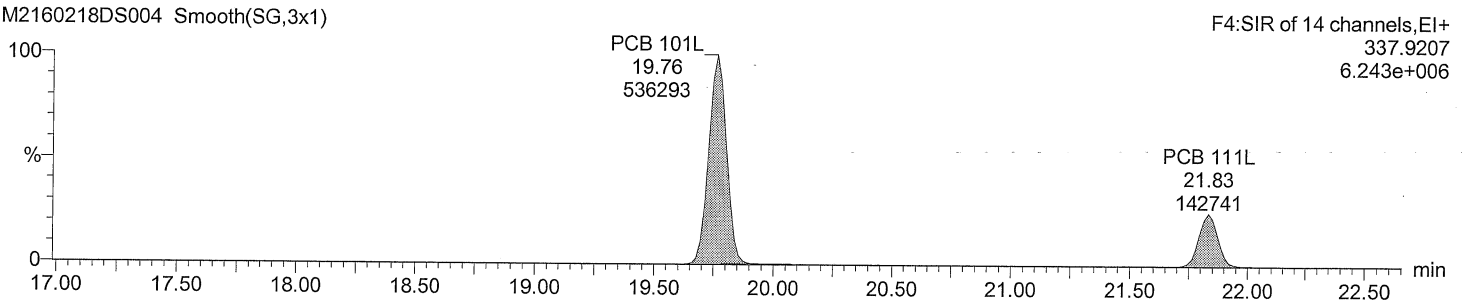

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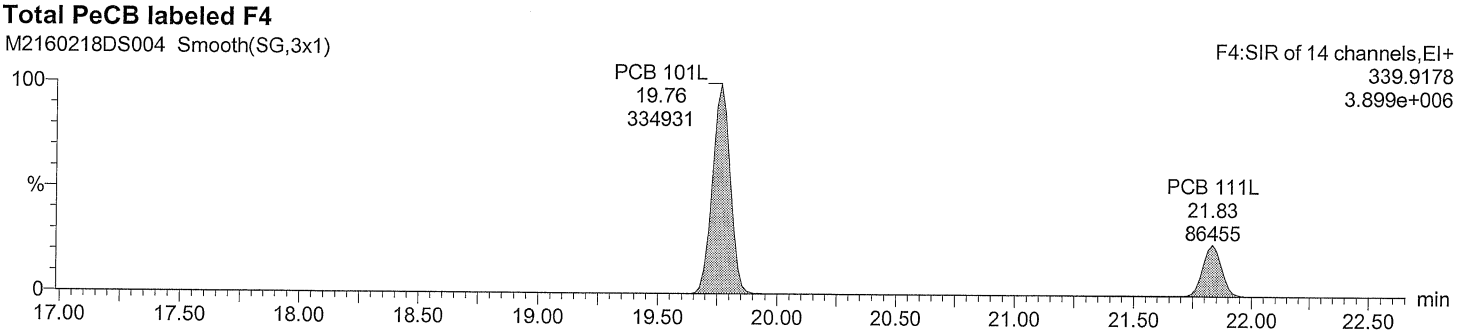

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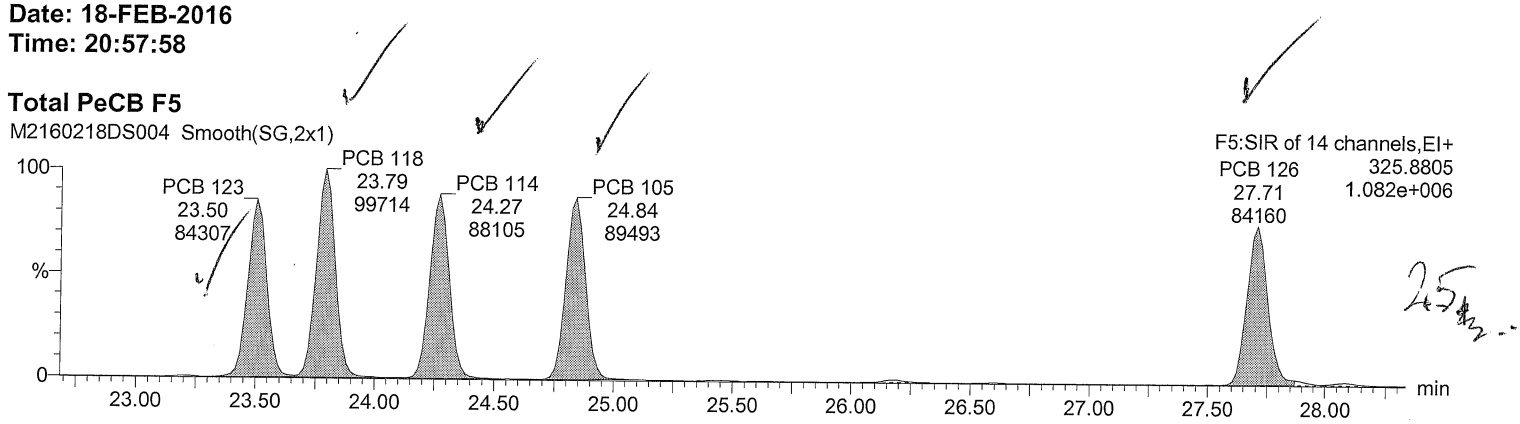
Total PeCB F5



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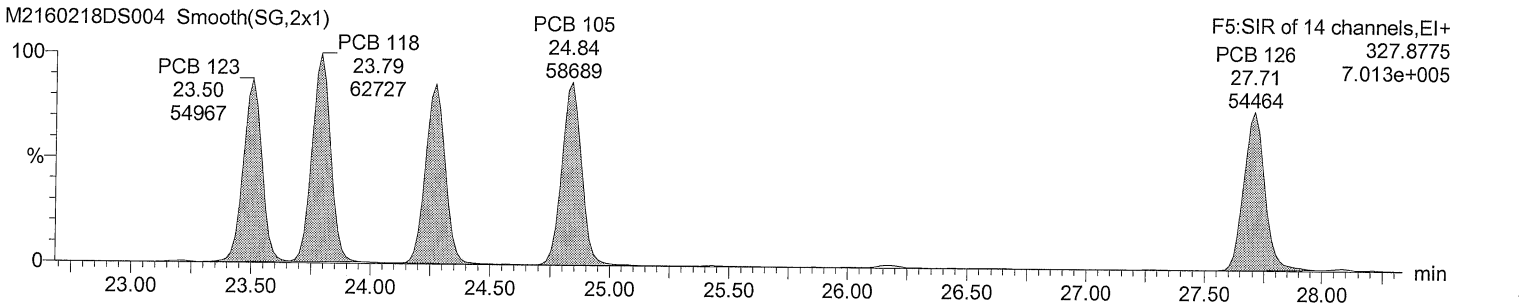

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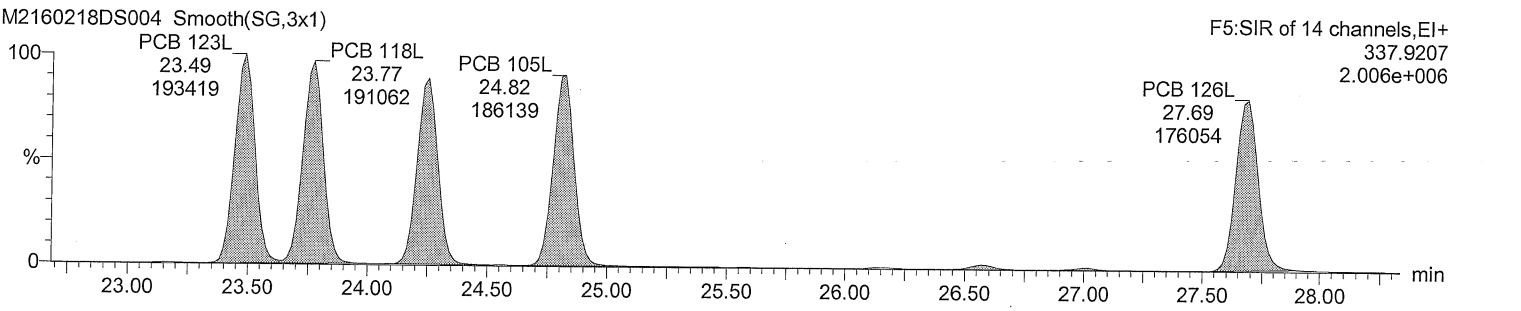

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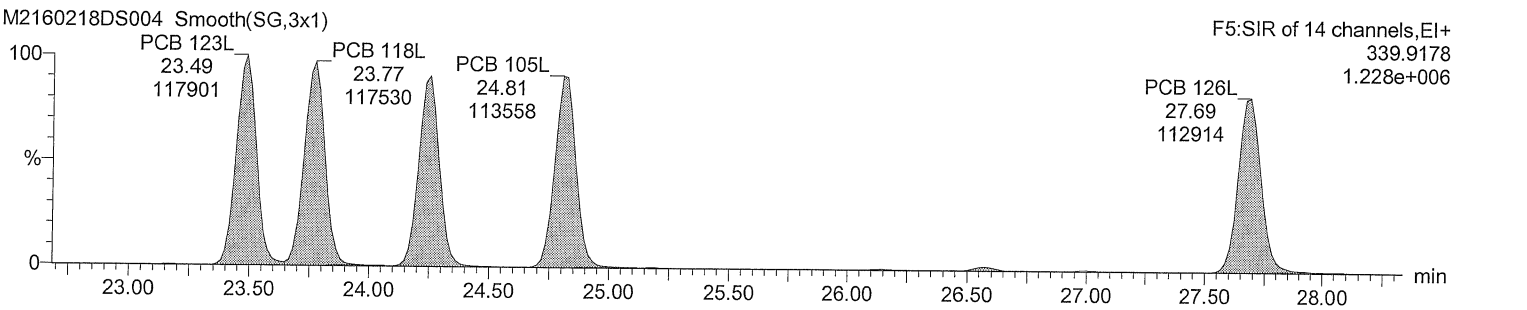

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Total HxCB F4
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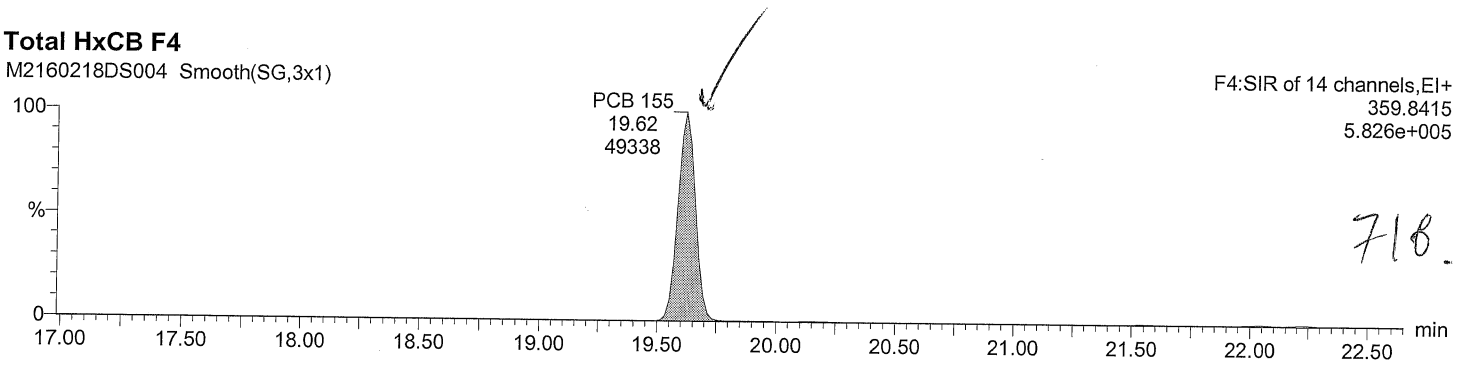

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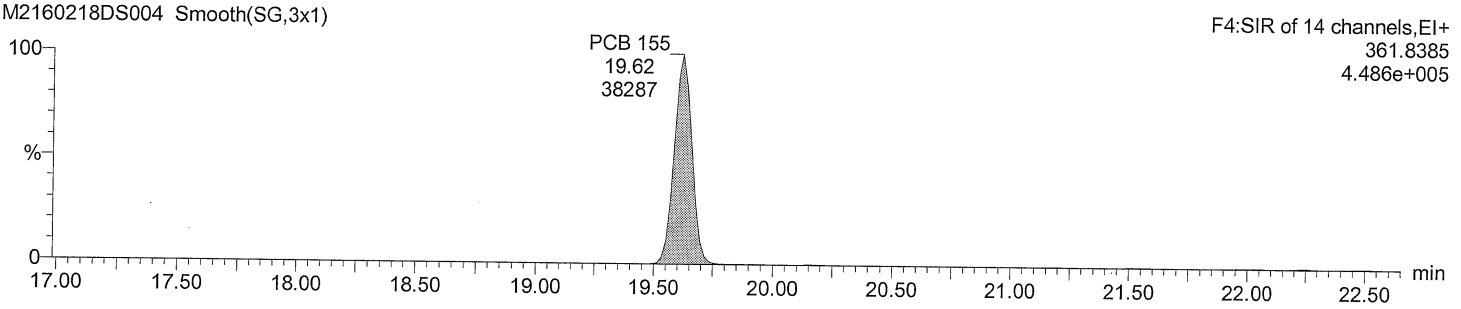

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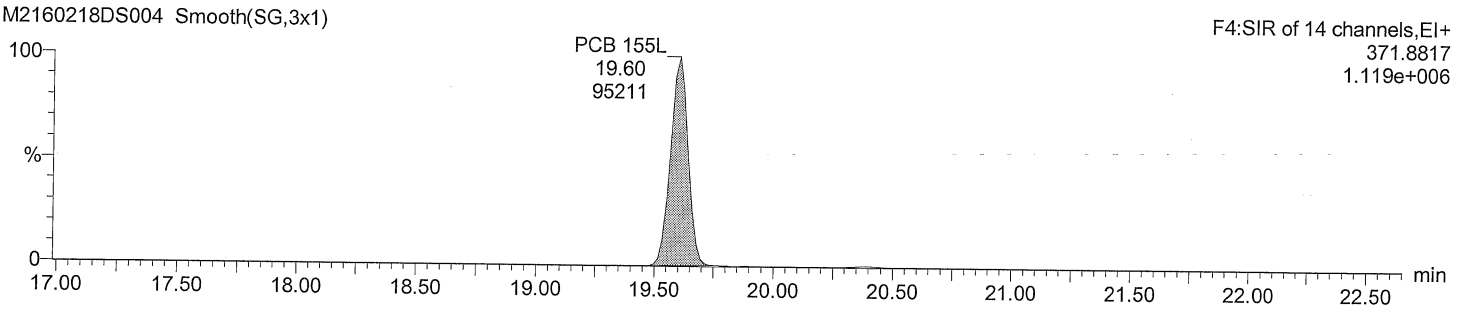

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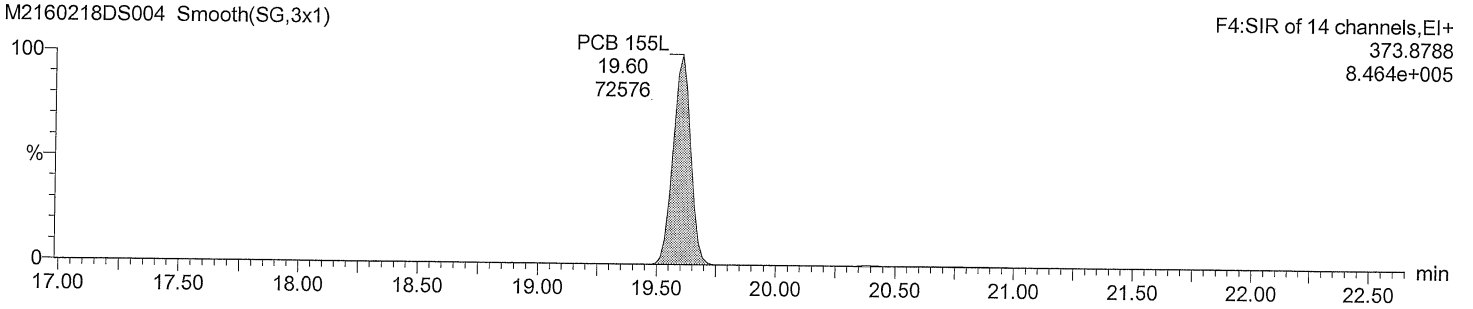

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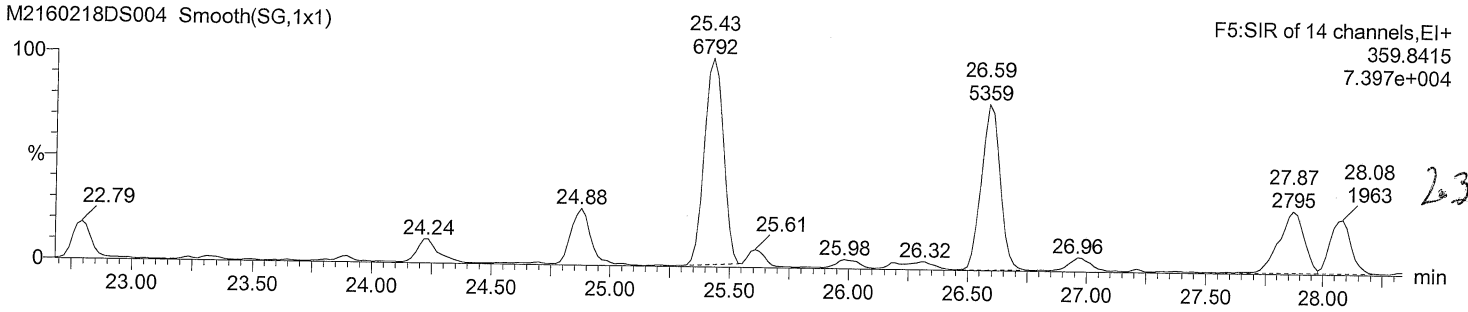
Total HxCB F5



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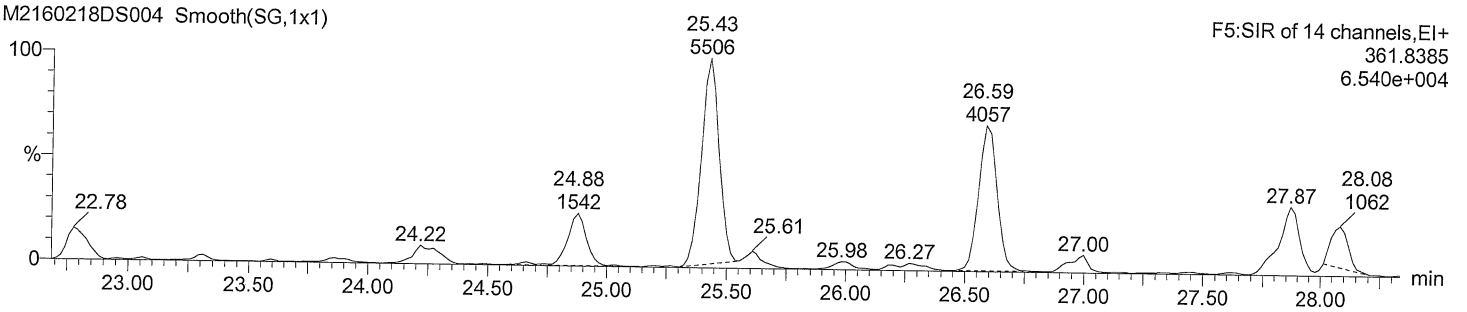

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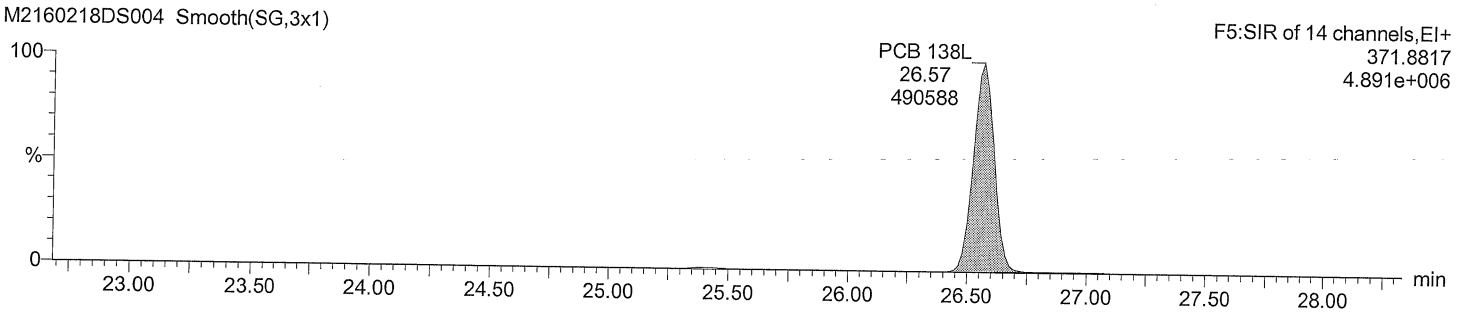

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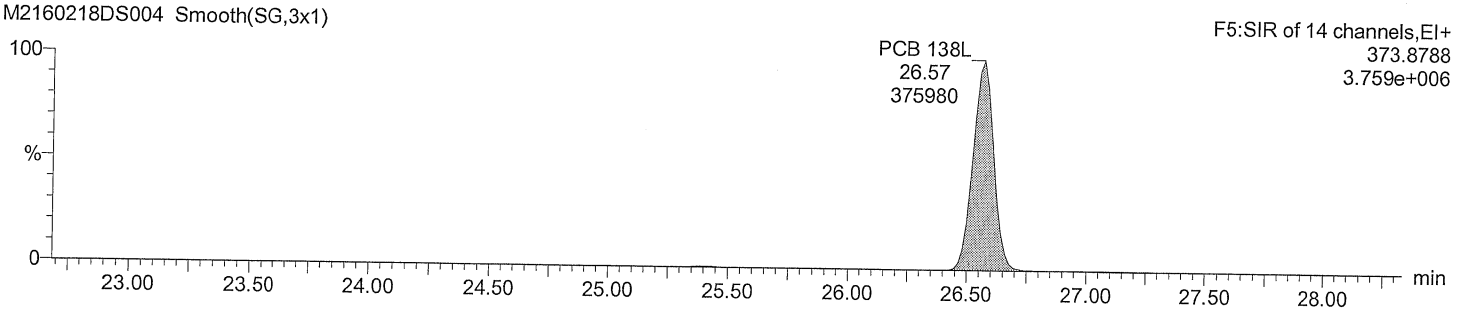

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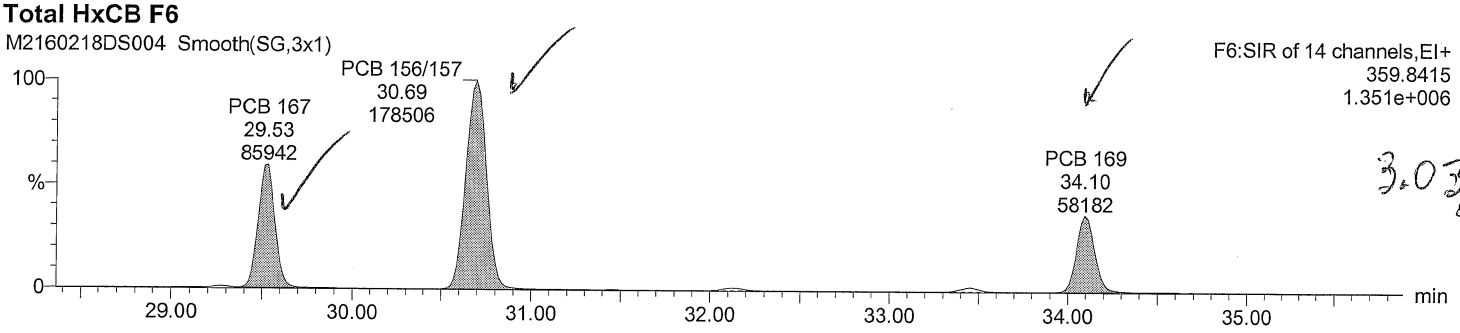

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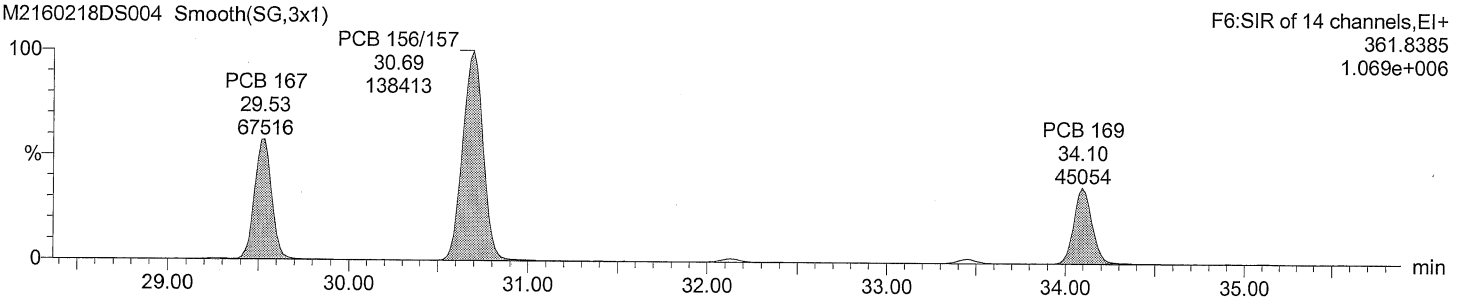

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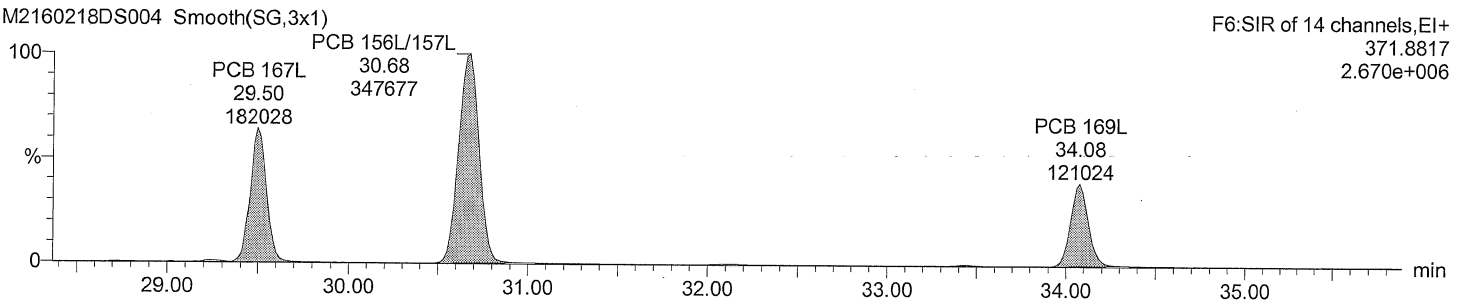

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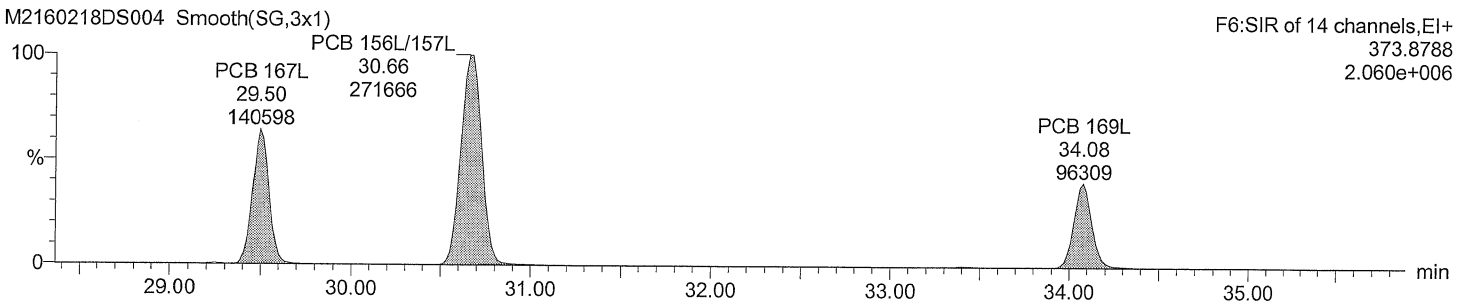

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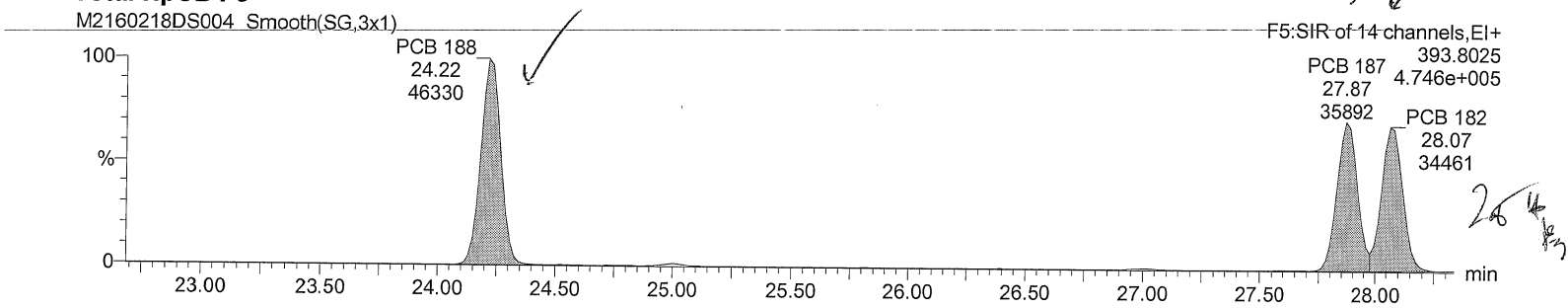

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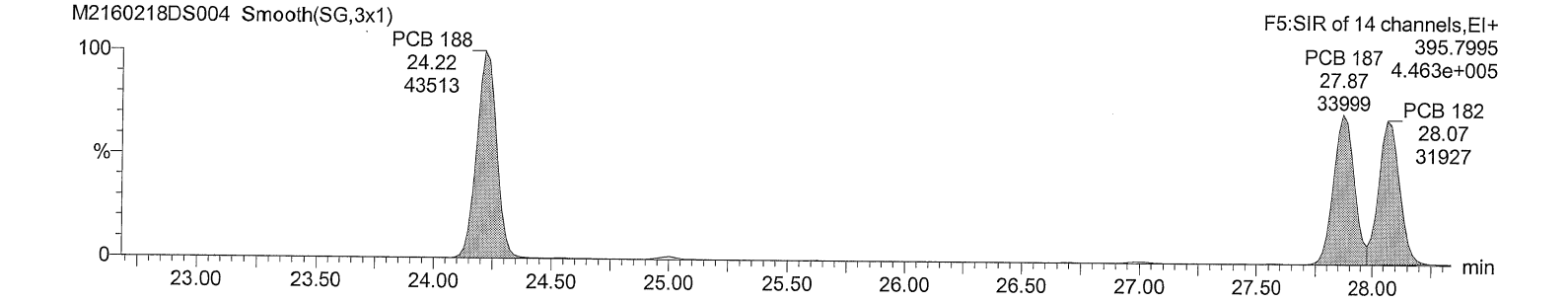

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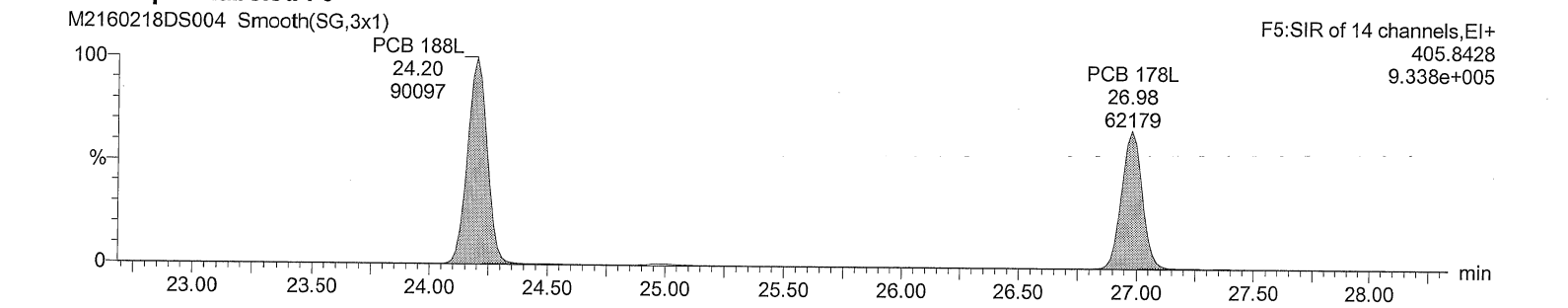

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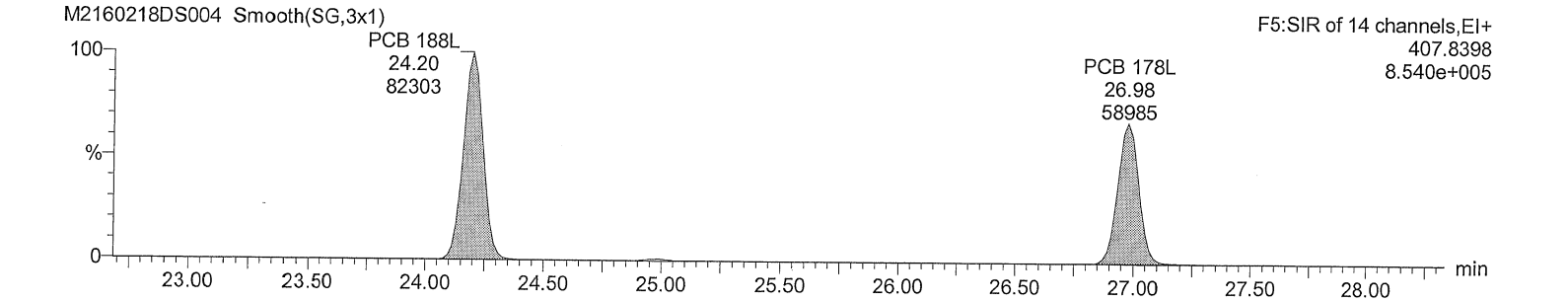

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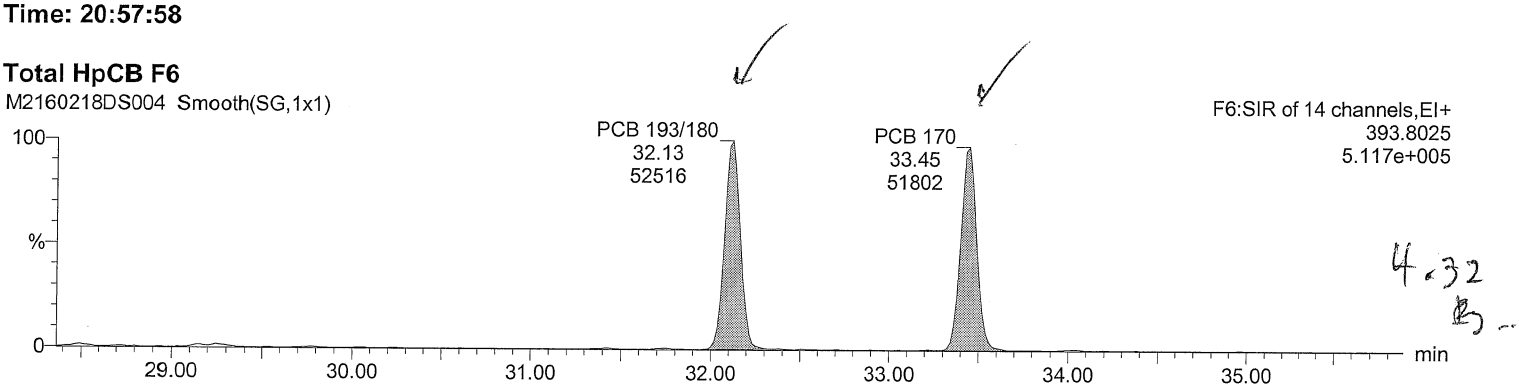

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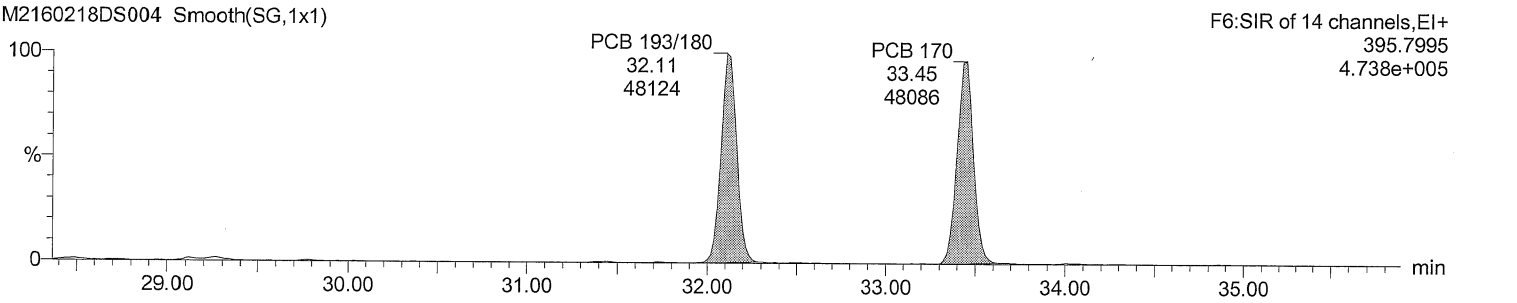

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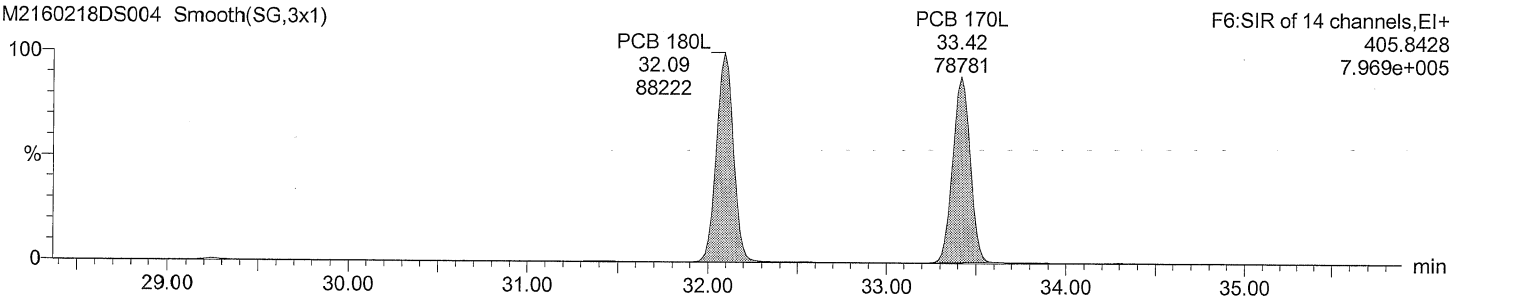

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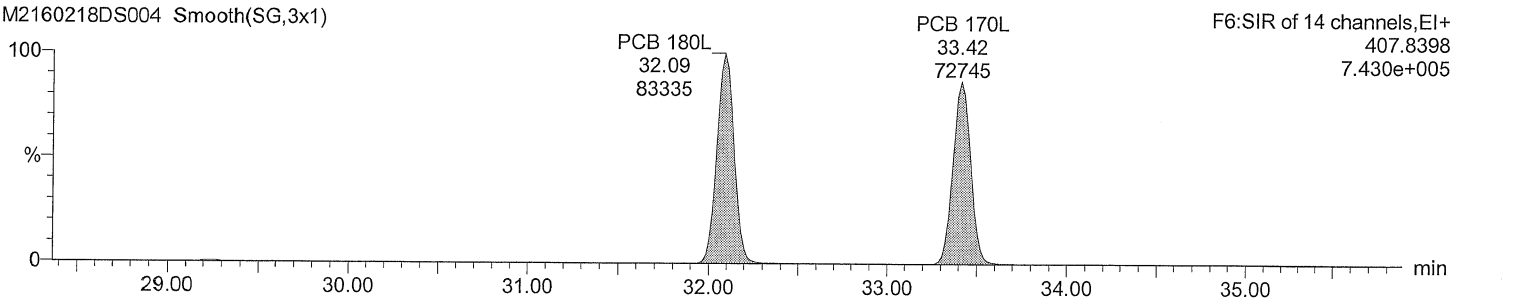

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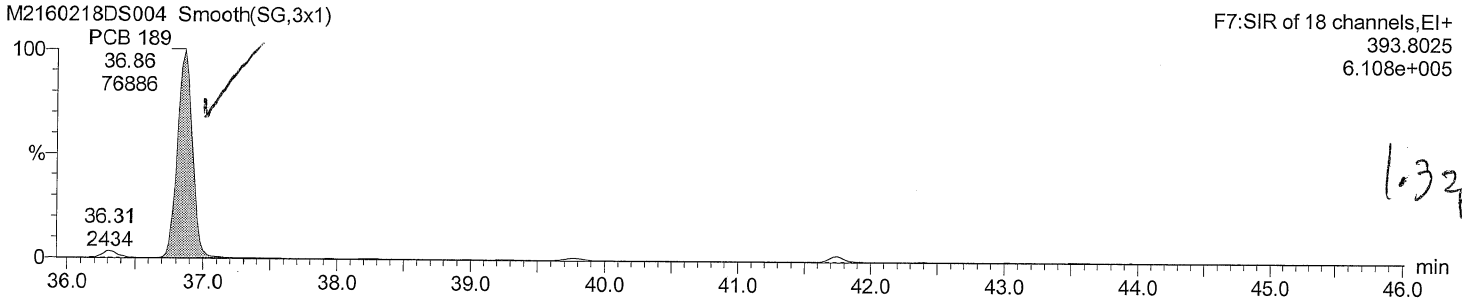
Total HpCB F7



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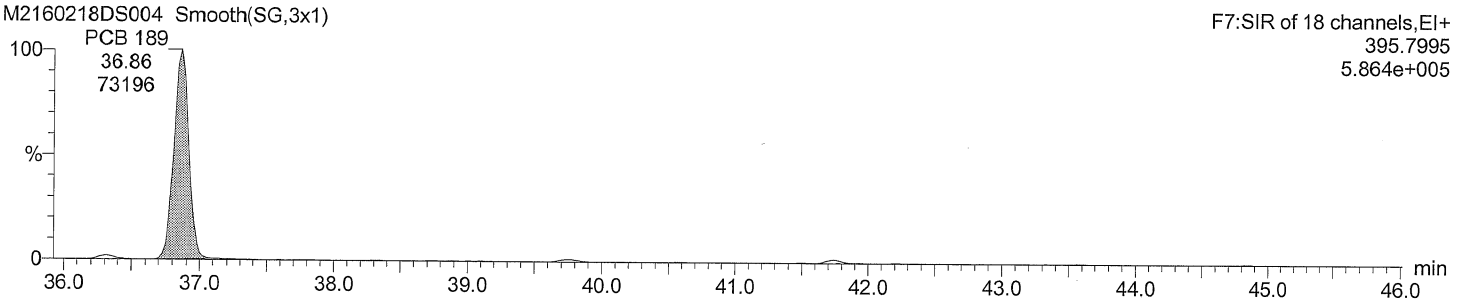

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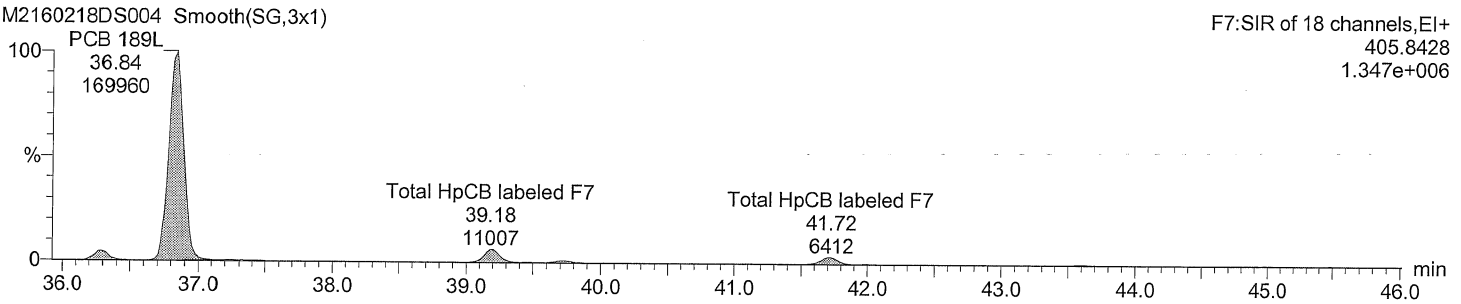

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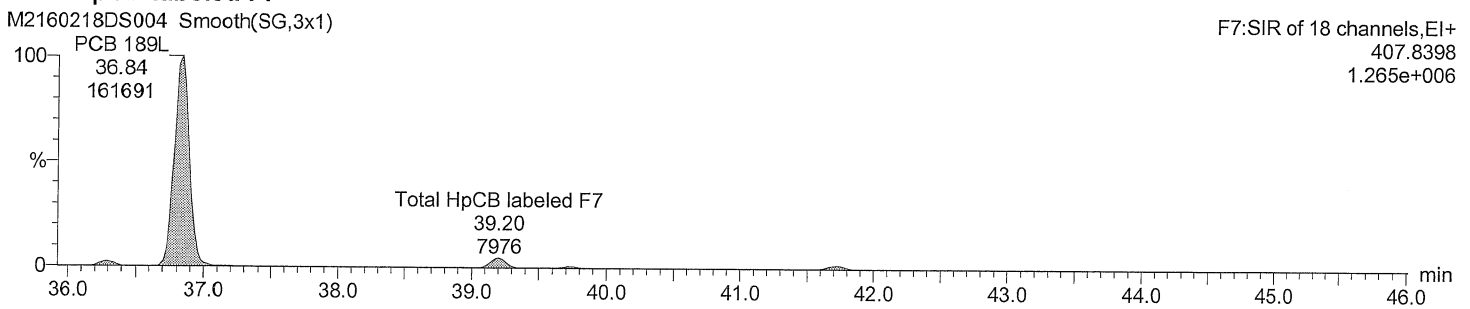

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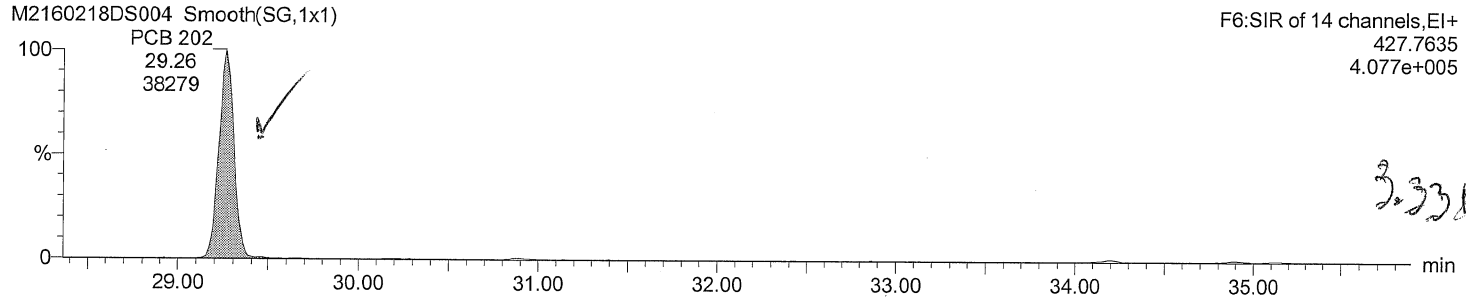

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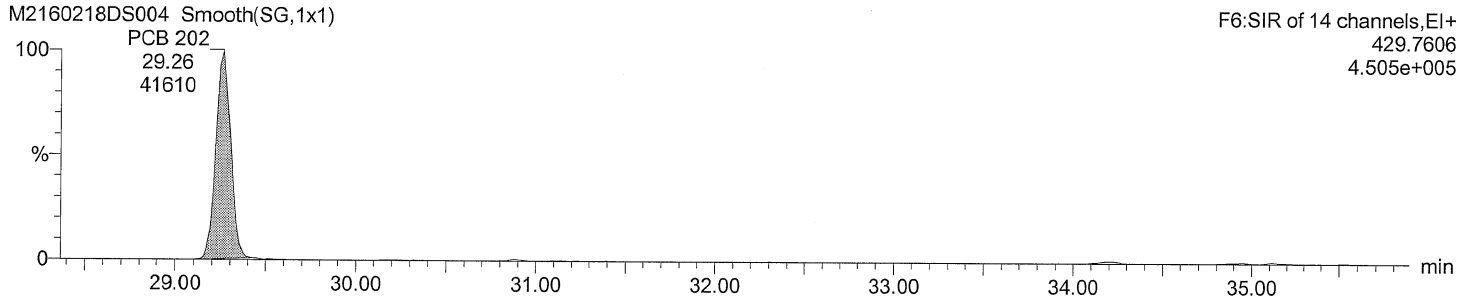

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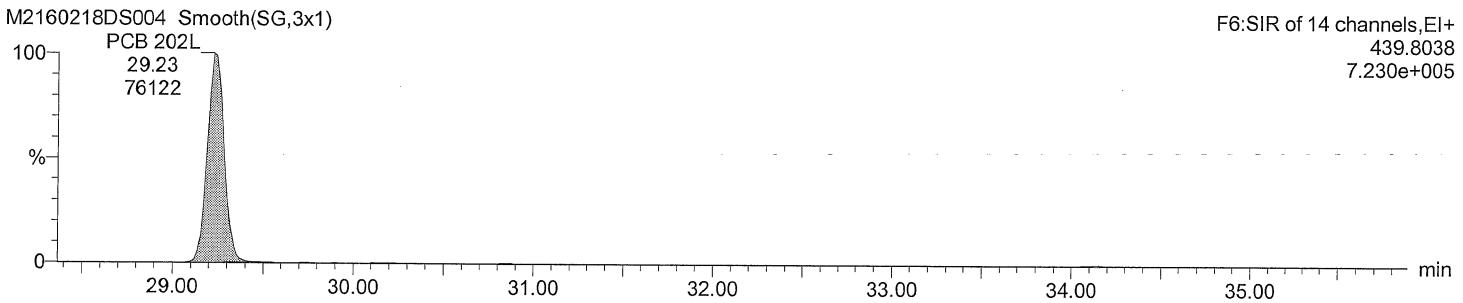

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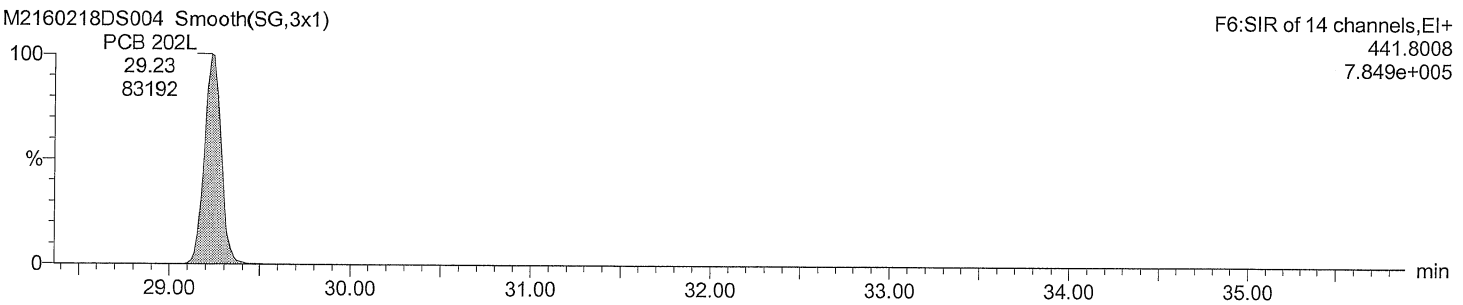

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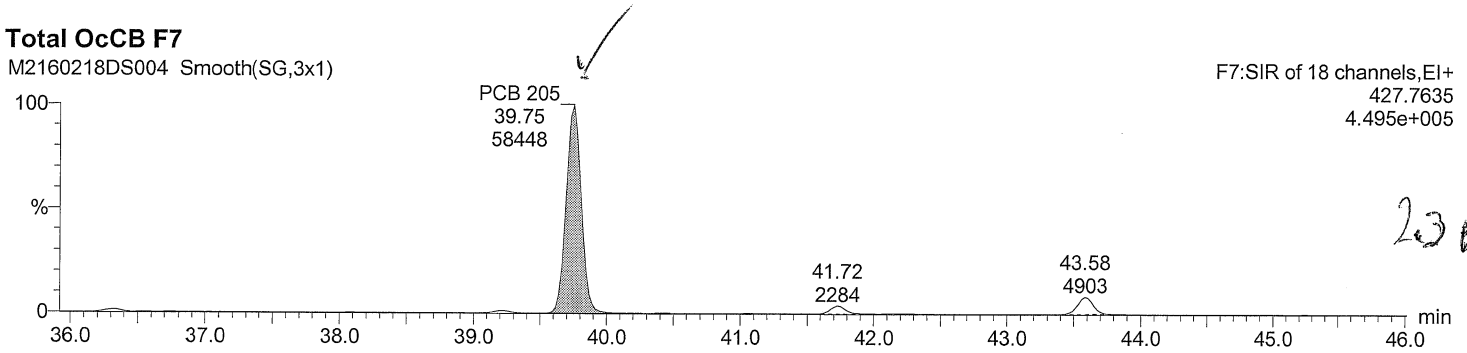

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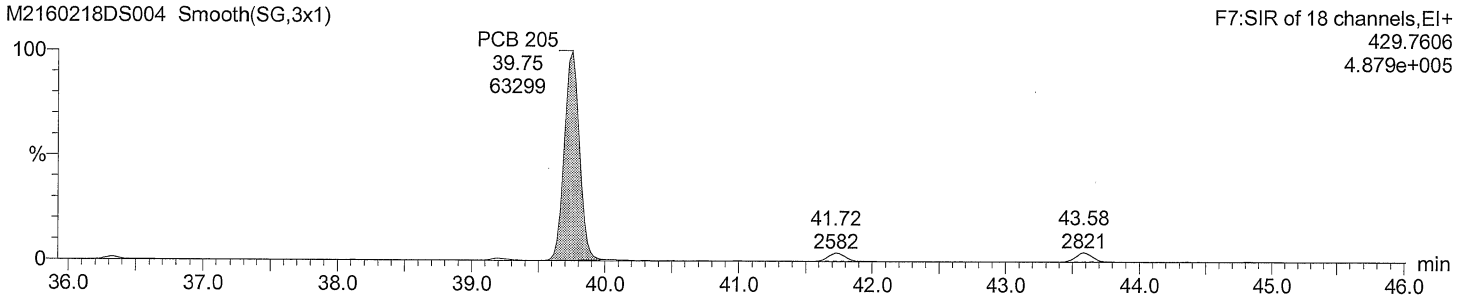

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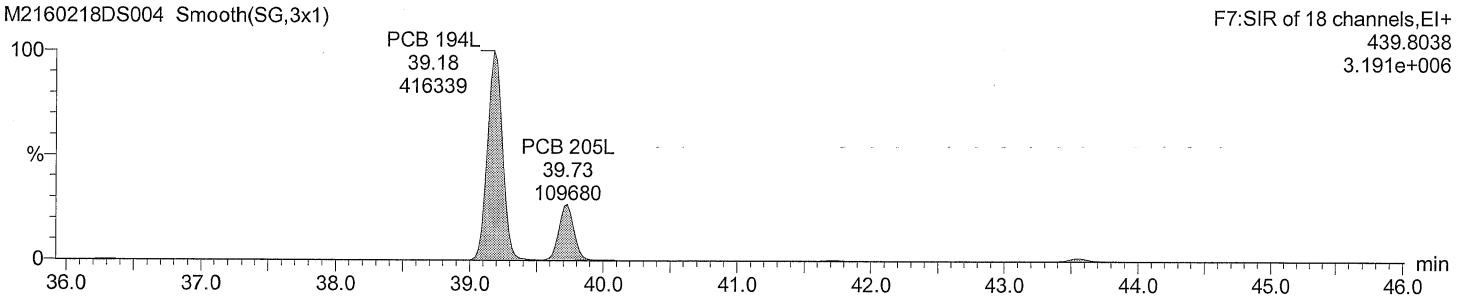

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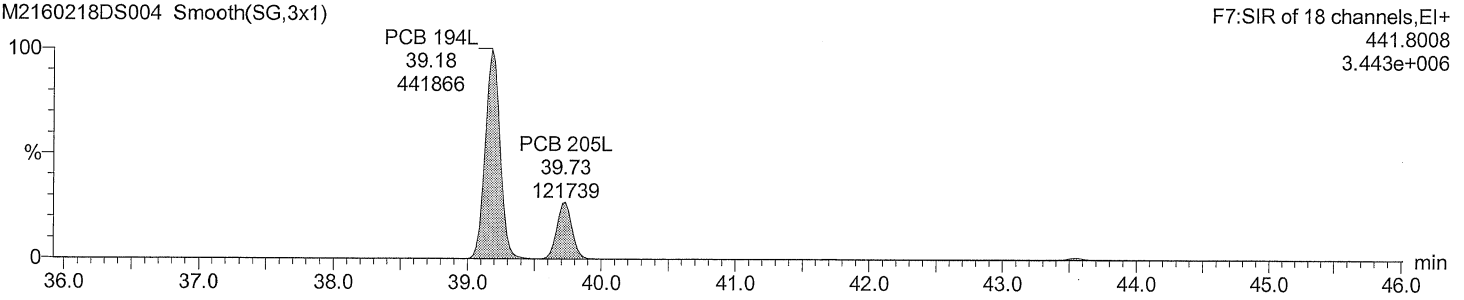

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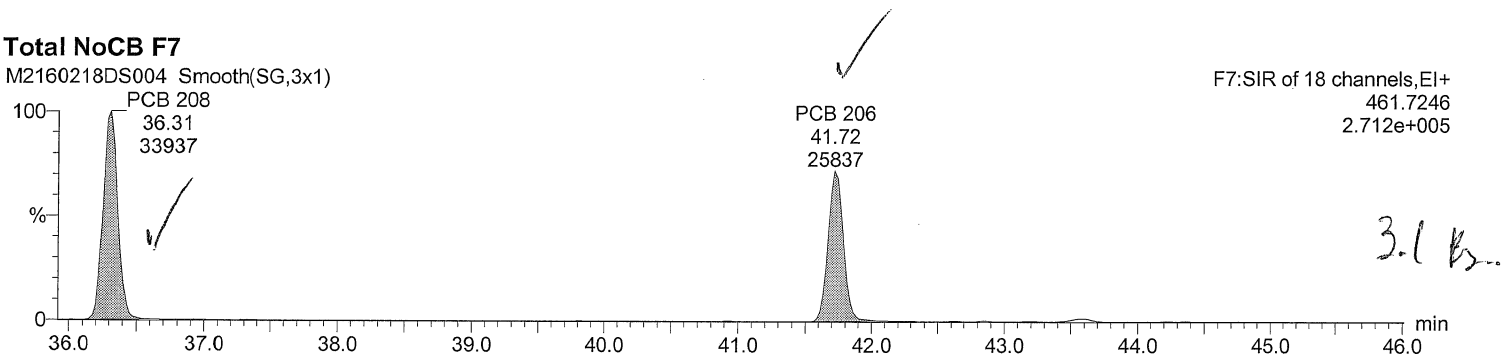
Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

Total NoCB F7



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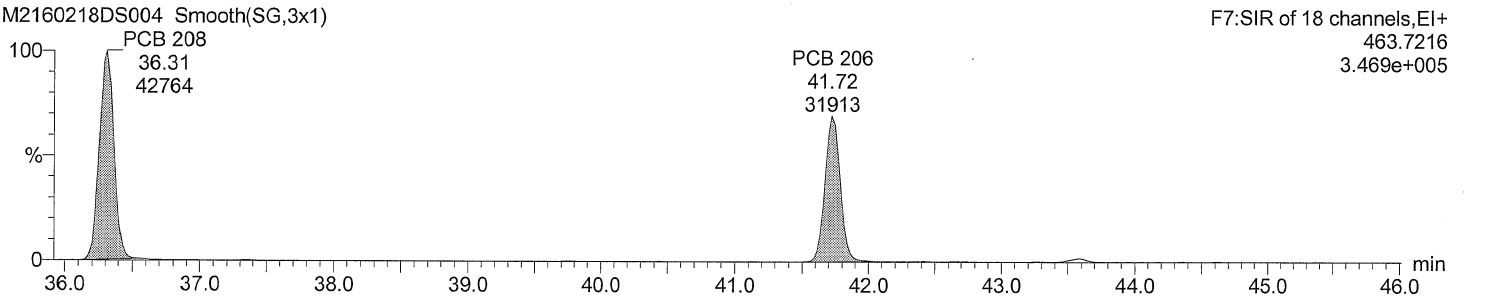

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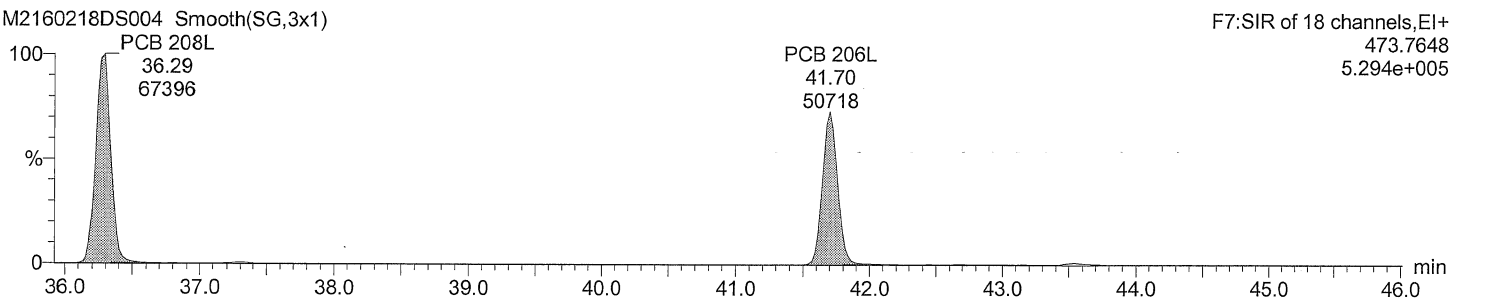

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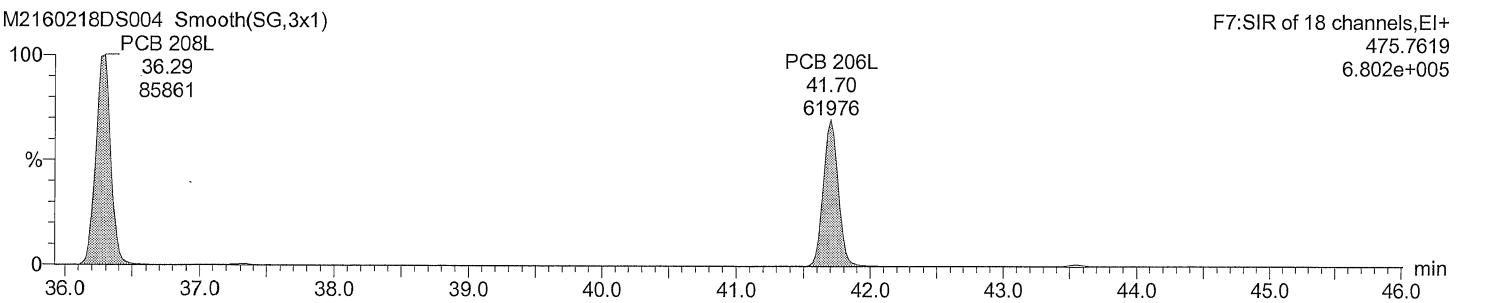

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Printed: February 19, 2016 05:17:01 PM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: SPIKE:D1
Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

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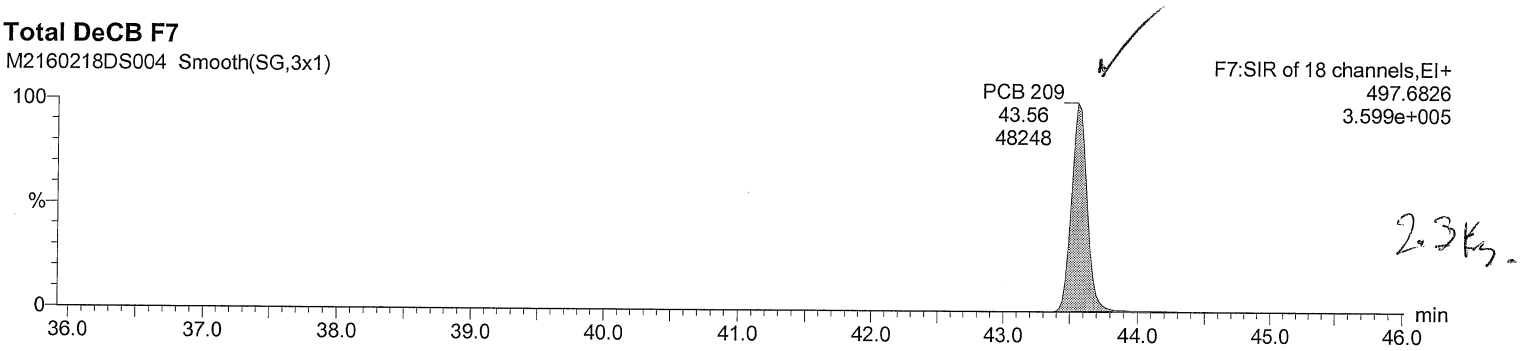

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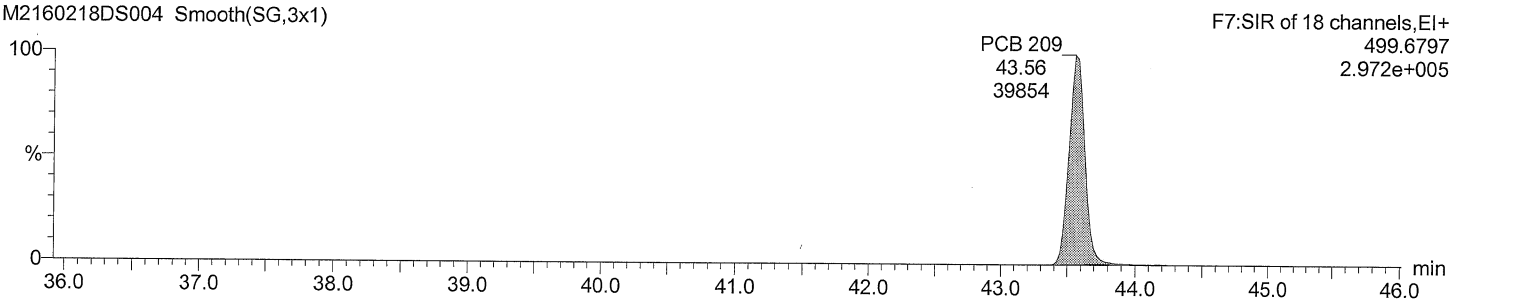

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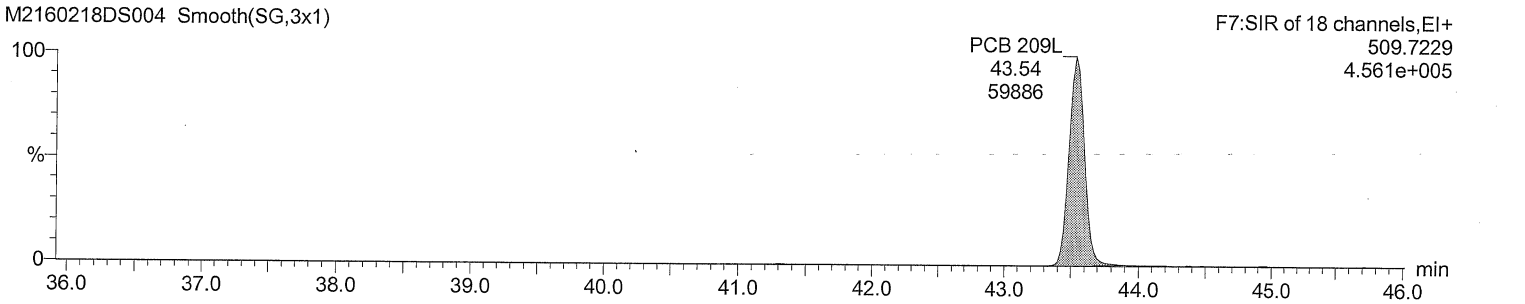

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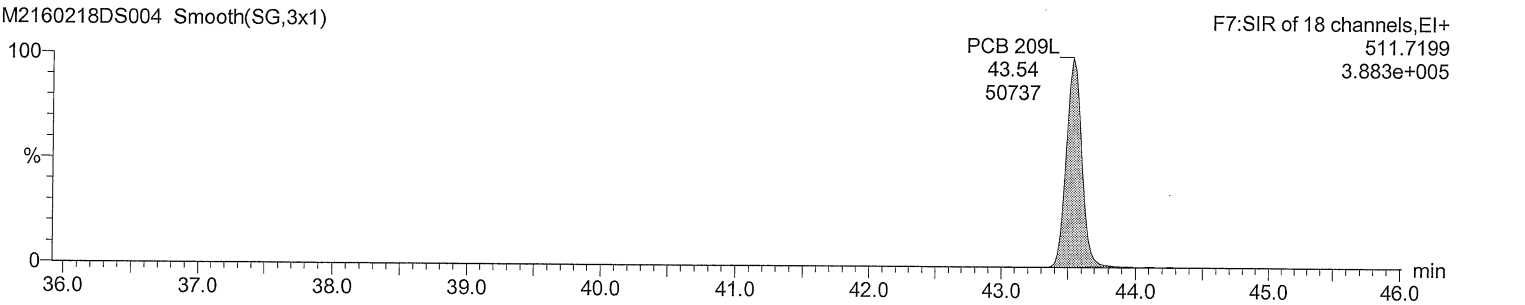

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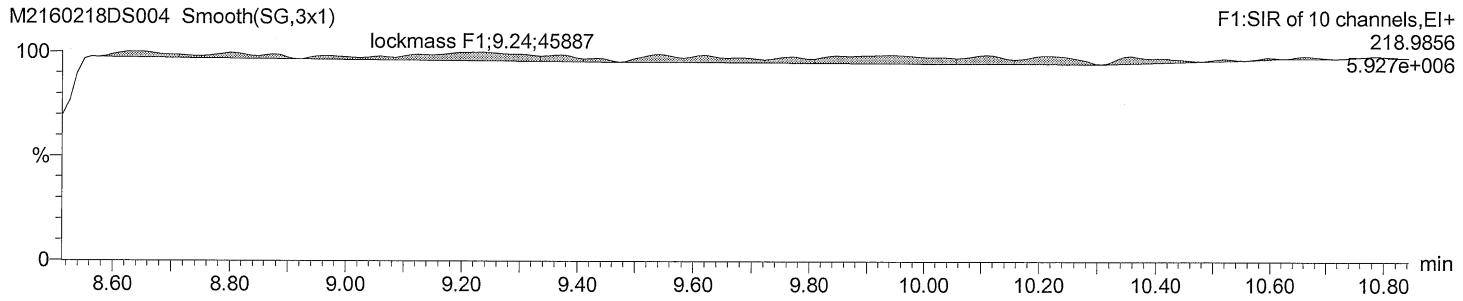
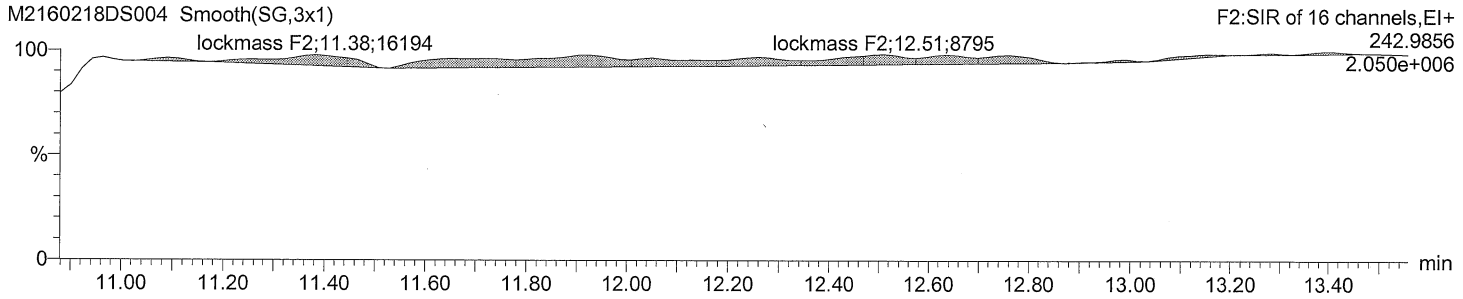
ID: WS#4386412/4378609, Ti
Description: SPIKE:D1
Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

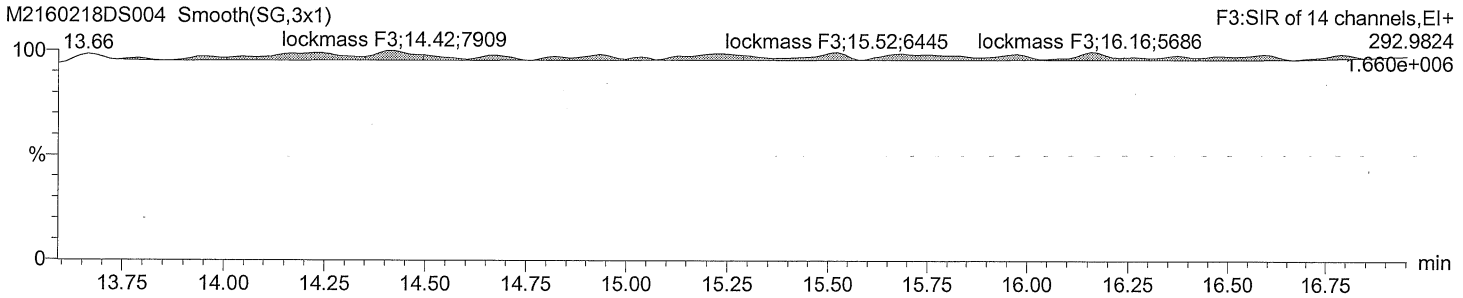
lockmass F1



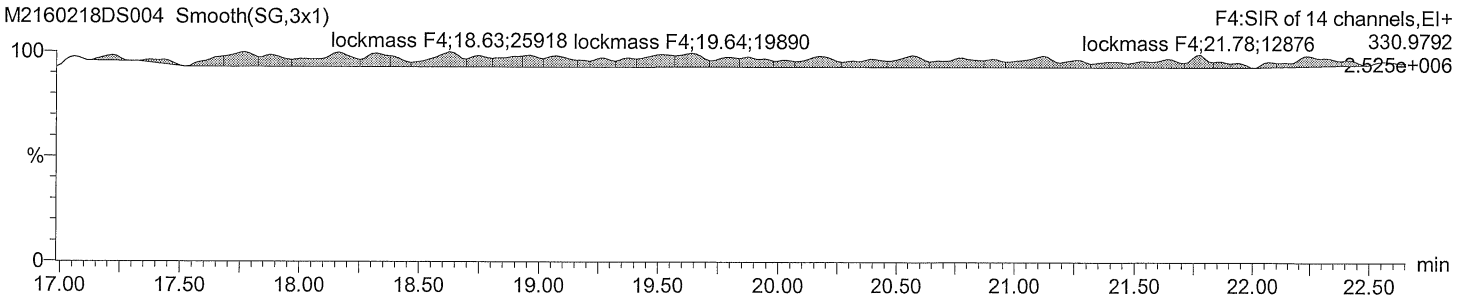
lockmass F2



lockmass F3



lockmass F4



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Acquired Date

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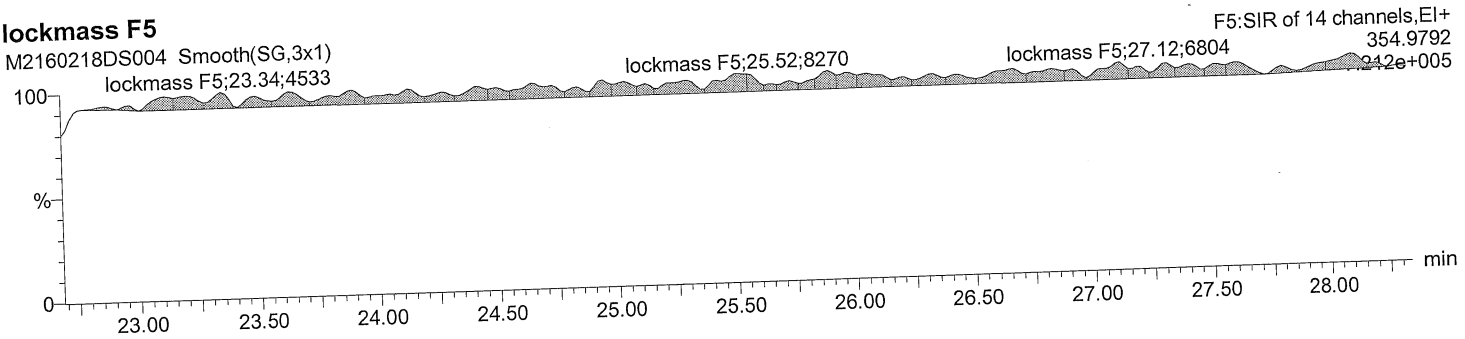
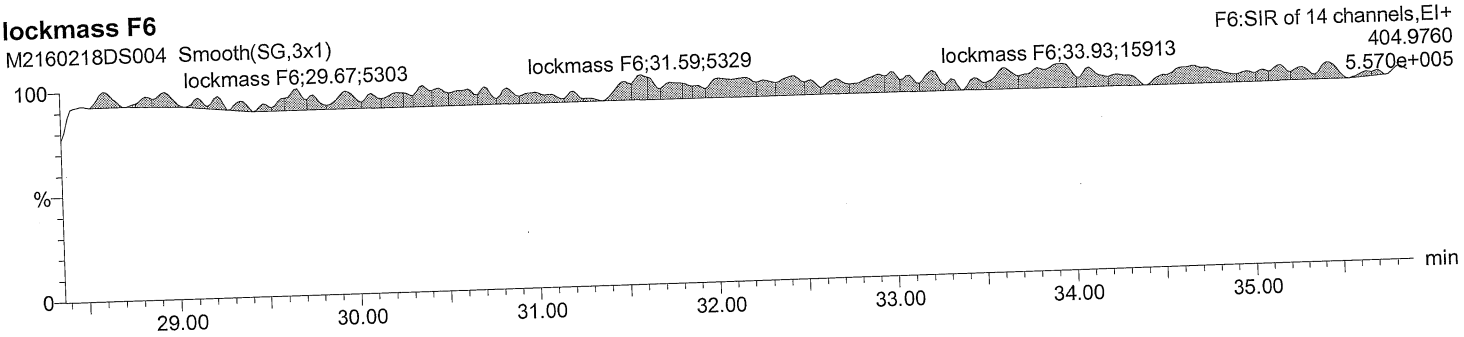
Printed: February 19, 2016 05:17:01 PM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: SPIKE:D1
Vial: 4
Date: 18-FEB-2016
Time: 20:57:58

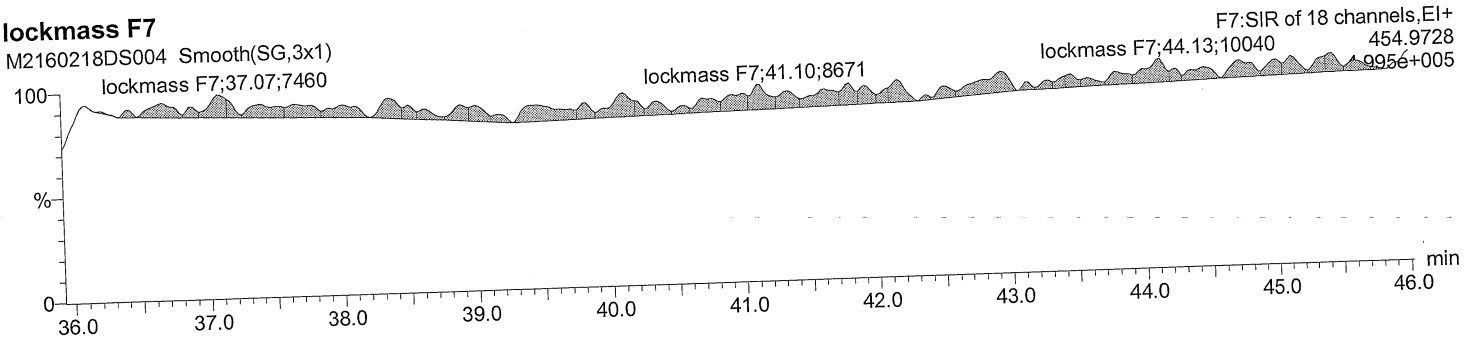
lockmass F5



lockmass F6



lockmass F7



Filename M2160218DS012
Acquired 18/02/2016 3:39 Cali File M2160218D_209

Sample ID REFMATT REF MAT
Comments
Instrument File Ultima 3
Sample Size 7.885 Dil Fac 1.00

Name		mass	RT	Area	ratio	Tot Area	pg	Code	Isomers DL	S/N	Mod	rrf	Rec
1 PCB 1		188	8.99	32059	3.32	41728	0.043002		-0.00083	127	no	1.082	-
	MoCB	190	8.98	9670	yes								
2 PCB 2		188	NotFnd	*	*	*	-0.00075		-0.00075	120 *	no	1.2	-
	MoCB	190	10.10	*	no					*			
3 PCB 3		188	10.19	3599	3.02	4789	0.004889		-0.00084	17	no	1.079	-
	MoCB	190	10.19	1190	yes					17			
4 PCB 4		222	10.30	74730	1.62	120808	0.298757		-0.00256	1446	no	0.954	-
	DiCB	224	10.30	46077	yes					127			
5 PCB 10		222	10.37	10033	1.6	16310	0.016223		-0.00199	181	no	1.229	-
	DiCB	224	10.37	6278	yes					17			
6 PCB 9		222	11.19	4178	1.5	6971	0.006501		-0.00268	62	no	1.311	-
	DiCB	224	11.18	2793	yes					6			
7 PCB 7		222	11.27	-3025	1.56	-4964.1	-0.00521	PCB 7 NDR	-0.00302	46	xL	1.165	-
	DiCB	224	11.26	-1939.1	OK					5			
8 PCB 6		222	11.37	37025	1.48	62091	0.057552		-0.00266	459	no	1.319	-
	DiCB	224	11.35	25066	yes					42			
9 PCB 5		222	NotFnd	*	*	*	-0.00358		-0.00358	*	no	0.983	-
	DiCB	224	11.50	*	no					*			
10 PCB 8		222	11.56	153111	1.51	254355	0.213501		-0.00241	2123	no	1.456	-
	DiCB	224	11.55	101244	yes					187			
11 PCB 14		222	NotFnd	*	*	*	-0.00264		-0.00264	*	no	1.332	-
	DiCB	224	12.27	*	no					*			
12 PCB 11		222	12.65	171249	1.54	282232	0.268533		-0.00274	2041	no	1.285	-
	DiCB	224	12.67	110984	yes					184			
13 PCB 13/12		222	12.80	23874	1.48	40009	0.040408		-0.0029	201	no	1.21	-
	DiCB	224	12.83	16135	yes					20			
14 PCB 15		222	12.94	151026	1.58	246750	0.233818		-0.00404	1735	no	0.871	-
	DiCB	224	12.97	95724	yes					155			
15 PCB 19		256	11.69	44112	1.06	85683	0.187402		-0.00199	496	no	0.899	-
	TriCB	258	11.69	41571	yes					475			
16 PCB 30/18		256	12.50	178064	1.03	350580	0.440224		-0.0022	1759	no	0.813	-
	TriCB	258	12.47	172517	yes					1652			
17 PCB 17		256	12.69	155547	1.06	301813	0.45141		-0.00262	1737	no	0.683	-
	TriCB	258	12.68	146266	yes					1668			
18 PCB 27		256	12.77	68985	1.06	134206	0.136782		-0.00179	634	no	1.002	-
	TriCB	258	12.77	65221	yes					660			
19 PCB 24		256	NotFnd	*	*	*	-0.0021		-0.0021	*	no	0.855	-
	TriCB	258	12.86	*	no					*			
20 PCB 16		256	12.90	35822	1.07	69464	0.141718		-0.00358	347	no	0.501	-
	TriCB	258	12.89	33642	yes					349			
21 PCB 32		256	13.15	220189	1.05	430550	0.402364		-0.00164	2124	no	1.093	-
	TriCB	258	13.12	210361	yes					2033			
22 PCB 34		256	13.75	8075	0.94	16631	0.013751		-0.00212	23	no	1.235	-
	TriCB	258	13.73	8556	yes					26			
23 PCB 23		256	NotFnd	*	*	*	-0.00254		-0.00254	*	no	1.033	-
	TriCB	258	13.81	*	no					*			
24 PCB 26/29		256	13.97	323106	1.01	641377	0.536433		-0.00215	879	no	1.221	-
	TriCB	258	13.98	318271	yes					916			
25 PCB 25		256	14.09	209409	1.03	413503	0.316546		-0.00197	544	no	1.334	-
	TriCB	258	14.11	204094	yes					563			
26 PCB 31		256	14.25	961218	1.02	1903544	1.456068		-0.00197	2648	no	1.335	-
	TriCB	258	14.27	942327	yes					2733			
27 PCB 28/20		256	14.42	1197014	1.01	2376193	2.038612		-0.0022	3270	no	1.191	-
	TriCB	258	14.44	1179179	yes					3378			
28 PCB 21/33		256	14.54	225152	1.03	444104	0.361373		-0.00209	579	no	1.255	-
	TriCB	258	14.54	218952	yes					589			
29 PCB 22		256	14.76	220984	1.04	433632	0.393003		-0.00233	599	no	1.127	-
	TriCB	258	14.77	212648	yes					598			
30 PCB 36		256	NotFnd	*	*	*	-0.00167		-0.00167	*	no	1.57	-
	TriCB	258	15.61	*	no					*			
31 PCB 39		256	15.83	10584	0.99	21326	0.016497		-0.00199	25	no	1.32	-
	TriCB	258	15.84	10742	yes					27			
32 PCB 38		256	NotFnd	*	*	*	-0.00182		-0.00182	*	no	1.438	-
	TriCB	258	16.19	*	no					*			
33 PCB 35		256	16.44	14905	1.03	29406	0.018807		-0.00164	34	no	1.597	-
	TriCB	258	16.46	14501	yes					34			
34 PCB 37		256	16.69	205050	1.03	404429	0.308173		-0.0029	465	no	0.906	-
	TriCB	258	16.71	199379	yes					478			
35 PCB 54		290	13.07	3096	0.83	6844	0.014539		-0.00249	15	no	0.911	-
	TCB	292	13.09	3747	yes					14			
36 PCB 53/50		290	14.11	138467	0.79	312764	0.501697		-0.00185	1150	no	0.654	-
	TCB	292	14.13	174297	yes					1120			
37 PCB 45/51		290	14.49	115511	0.77	264544	0.438717		-0.00191	728	no	0.633	-
	TCB	292	14.50	149033	yes					719			
38 PCB 46		290	14.63	26536	0.79	60315	0.11433		-0.00219	213	no	0.554	-
	TCB	292	14.65	33780	yes					209			
39 PCB 52		290	15.37	967335	0.8	2178433	2.741201		-0.00145	7503	no	0.834	-
	TCB	292	15.39	1211098	yes					7194			
40 PCB 73		290	15.48	3140	0.76	7289	0.009406		-0.00149	84	yes	0.813	-
	TCB	292	15.47	4150	yes					88			
41 PCB 43		290	15.52	29091	0.79	65837	0.133794		-0.00235	231	yes	0.516	-
	TCB	292	15.54	36747	yes					225			
42 PCB 69/49		290	15.66	776734	0.8	1751904	2.160107		-0.00142	5750	no	0.851	-
	TCB	292	15.65	975170	yes					5448			

43 PCB 48	**290**	**15.83**	**121664**	**0.79**	**275340**	**0.429212**	-0.0018	934	no	0.673	-
	TCB 292	15.85	153676	yes				906			
44 PCB 44/47/65	**290**	**15.97**	**1022068**	**0.8**	**2303003**	**3.086412**	-0.00155	6161	no	0.783	-
	TCB 292	15.99	1280935	yes				5926			
45 PCB 59/62/75	**290**	**16.15**	**105835**	**0.79**	**240398**	**0.248224**	-0.00119	651	no	1.017	-
	TCB 292	16.18	134563	yes				640			
46 PCB 42	**290**	**16.28**	**214384**	**0.79**	**485691**	**0.747943**	-0.00178	1603	no	0.682	-
	TCB 292	16.31	271307	yes				1556			
47 PCB 40/41/71	**290**	**16.57**	**472635**	**0.8**	**1066814**	**1.547533**	-0.00167	3097	no	0.724	-
	TCB 292	16.59	594179	yes				3004			
48 PCB 64	**290**	**16.71**	**510355**	**0.79**	**1153227**	**1.312998**	-0.00131	3628	no	0.922	-
	TCB 292	16.73	642872	yes				3530			
49 PCB 72	**290**	**17.19**	**33872**	**0.78**	**77328**	**0.062229**	-0.00183	96	no	1.304	-
	TCB 292	17.20	43457	yes				95			
50 PCB 68	**290**	**17.39**	**26842**	**0.77**	**61648**	**0.053033**	-0.00196	73	no	1.22	-
	TCB 292	17.41	34805	yes				73			
51 PCB 57	**290**	**17.69**	**12502**	**0.79**	**28346**	**0.024366**	-0.00196	53	no	1.221	-
	TCB 292	17.69	15844	yes				52			
52 PCB 58	290	NotFnd	*	*	*	-0.00231	-0.00231	*	no	1.035	-
	TCB 292	17.84	*	no				*			
53 PCB 67	**290**	**17.94**	**62256**	**0.78**	**142410**	**0.111007**	-0.00177	167	no	1.347	-
	TCB 292	17.95	80154	yes				168			
54 PCB 63	**290**	**18.14**	**96896**	**0.78**	**220426**	**0.184712**	-0.00191	259	no	1.253	-
	TCB 292	18.14	123530	yes				258			
55 PCB 61/70/74/76	**290**	**18.35**	**2593761**	**0.77**	**5959827**	**5.642342**	-0.00215	5042	no	1.109	-
	TCB 292	18.35	3366067	yes				5013			
56 PCB 66	**290**	**18.58**	**1656844**	**0.77**	**3804358**	**3.216388**	-0.00193	4440	no	1.241	-
	TCB 292	18.59	2147514	yes				4416			
57 PCB 55	290	NotFnd	*	*	*	-0.00239	-0.00239	*	no	0.998	-
	TCB 292	18.72	*	no				*			
58 PCB 56	**290**	**19.07**	**603796**	**0.79**	**1370674**	**1.445325**	-0.0024	1589	no	0.995	-
	TCB 292	19.06	766877	yes				1576			
59 PCB 60	**290**	**19.23**	**282759**	**0.74**	**666747**	**0.708623**	-0.00242	763	no	0.988	-
	TCB 292	19.23	383988	yes				767			
60 PCB 80	290	NotFnd	*	*	*	-0.00195	-0.00195	*	no	1.224	-
	TCB 292	19.49	*	no				*			
61 PCB 79	**290**	**20.65**	**22640**	**0.75**	**52939**	**0.038009**	-0.00163	81	yes	1.462	-
	TCB 292	20.62	30299	yes				81			
62 PCB 78	290	NotFnd	*	*	*	-0.00186	-0.00186	*	no	1.287	-
	TCB 292	21.07	*	no				*			
63 PCB 81	**290**	**21.42**	**4753**	**0.82**	**10515**	**0.008445**	-0.00233	14	yes	1.027	-
	TCB 292	21.44	5762	yes				13			
64 PCB 77	**290**	**21.88**	**146616**	**0.78**	**334197**	**0.27481**	-0.00222	341	no	1.077	-
	TCB 292	21.88	187581	yes				345			
65 PCB 104	326	NotFnd	*	*	*	-0.00128	-0.00128	*	no	1.094	-
	PeCB 328	15.93	*	no				*			
66 PCB 96	**326**	**16.17**	**11594**	**1.68**	**18494**	**0.021398**	-0.0016	63	no	0.874	-
	PeCB 328	16.16	6899	yes				58			
67 PCB 103	**326**	**17.32**	**20666**	**1.6**	**33581**	**0.045954**	-0.00186	81	no	0.739	-
	PeCB 328	17.32	12915	yes				80			
68 PCB 94	**326**	**17.46**	**11261**	**1.51**	**18713**	**0.035045**	-0.00255	44	no	0.54	-
	PeCB 328	17.46	7452	yes				43			
69 PCB 95	**326**	**17.76**	**1033760**	**1.6**	**1680498**	**2.488954**	-0.00202	4051	no	0.683	-
	PeCB 328	17.76	646737	yes				3922			
70 PCB 100/93/102/98	**326**	**18.00**	**93485**	**1.73**	**147579**	**0.241037**	-0.00222	250	yes	0.619	-
	PeCB 328	17.92	54094	yes				233			
71 PCB 88/91	**326**	**18.35**	**264364**	**1.61**	**428523**	**0.693174**	-0.0022	1007	no	0.625	-
	PeCB 328	18.30	164159	yes				958			
72 PCB 84	**326**	**18.51**	**272774**	**1.62**	**441109**	**0.835102**	-0.00258	1021	no	0.534	-
	PeCB 328	18.49	168335	yes				973			
73 PCB 89	**326**	**18.83**	**18266**	**1.59**	**29767**	**0.051693**	-0.00237	68	no	0.582	-
	PeCB 328	18.83	11501	yes				66			
74 PCB 121	326	NotFnd	*	*	*	-0.00181	-0.00181	*	no	0.761	-
	PeCB 328	19.07	*	no				*			
75 PCB 92	**326**	**19.37**	**347044**	**1.61**	**562456**	**0.951348**	-0.0023	1266	no	0.598	-
	PeCB 328	19.34	215411	yes				1208			
76 PCB 113/90/101	**326**	**19.80**	**2003863**	**1.59**	**3264234**	**4.646563**	-0.00194	7148	no	0.71	-
	PeCB 328	19.75	1260371	yes				6941			
77 PCB 83/99	**326**	**20.22**	**1282590**	**1.59**	**2087743**	**3.387382**	-0.00221	4090	no	0.623	-
	PeCB 328	20.21	805153	yes				4047			
78 PCB 112	326	NotFnd	*	*	*	-0.00168	-0.00168	*	no	0.819	-
	PeCB 328	20.33	*	no				*			
79 PCB 109/119/86/97/125/	**326**	**20.63**	**1256936**	**1.6**	**2042795**	**2.843586**	-0.0019	2382	no	0.726	-
	PeCB 328	20.61	785859	yes				2312			
80 PCB 117/116/85	**326**	**21.18**	**366675**	**1.6**	**595552**	**0.756942**	-0.00173	1238	no	0.796	-
	PeCB 328	21.22	228877	yes				1194			
81 PCB 110/115	**326**	**21.31**	**2498423**	**1.6**	**4061319**	**5.477668**	-0.00184	8100	no	0.75	-
	PeCB 328	21.31	1562896	yes				7922			
82 PCB 82	**326**	**21.58**	**146903**	**1.66**	**235151**	**0.421245**	-0.00244	493	no	0.564	-
	PeCB 328	21.58	88248	yes				462			
83 PCB 111	**326**	**21.86**	**2580**	**1.39**	**4431**	**0.005541**	-0.0017	8	yes	0.809	-
	PeCB 328	21.84	1851	yes				9			
84 PCB 120	**326**	**22.24**	**13875**	**1.68**	**22132**	**0.023541**	-0.00145	45	no	0.951	-
	PeCB 328	22.24	8256	yes				43			
85 PCB 108/124	**326**	**23.20**	**104909**	**1.54**	**172878**	**0.155753**	-0.00196	211	no	1.122	-
	PeCB 328	23.22	67969	yes				208			
86 PCB 107	**326**	**23.41**	**321122**	**1.56**	**527352**	**0.464747**	-0.00192	582	no	1.147	-
	PeCB 328	23.41	206230	yes				580			
87 PCB 123	**326**	**23.52**	**35581**	**1.59**	**57901**	**0.057178**	-0.00246	150	no	0.894	-
	PeCB 328	23.52	22319	yes				148			
88 PCB 106	326	NotFnd	*	*	*	-0.00181	-0.00181	*	no	1.218	-
	PeCB 328	23.64	*	no				*			
89 PCB 118	**326**	**23.80**	**3808669**	**1.55**	**6270209**	**5.655233**	-0.00224	7539	no	0.981	-
	PeCB 328	23.81	2461541	yes				7505			

90 PCB 122	326	24.10	35903	1.67	57430	0.053839	-0.00204	65	no	1.079	-
91 PCB 114	PeCB 328	24.09	21527	yes			-0.00218	61	no	1.01	-
92 PCB 105	326	24.28	64726	1.56	106135	0.099116	-0.00225	124	no	0.977	-
93 PCB 127	PeCB 328	24.29	41409	yes			-0.00179	120	yes	1.23	-
94 PCB 126	326	24.85	1386776	1.57	2271536	2.123758	-0.00225	2588	no	0.977	-
95 PCB 155	PeCB 328	24.84	884760	yes			-0.00135	3	no	0.997	-
96 PCB 152	326	26.21	1372	1.51	2281	0.001874	-0.00165	20	no	0.813	-
97 PCB 150	PeCB 328	26.21	908	yes			-0.00207	3	no	0.65	-
98 PCB 136	326	27.74	7256	1.48	12150	0.011805	-0.00176	20	no	0.761	-
99 PCB 145	PeCB 328	27.73	4894	yes			-0.00203	18	no	0.662	-
100 PCB 148	360	NotFnd	*	*	*	-0.00135	-0.00244	894	no	0.551	-
101 PCB 151/135	HxCB 362	19.64	*	no			-0.00259	850	no	0.519	-
102 PCB 154	360	19.80	1445	1.29	2565	0.003453	-0.00217	*	no	0.618	-
103 PCB 144	HxCB 362	19.79	1119	yes			-0.00239	12	no	0.562	-
104 PCB 147/149	360	19.90	3116	1.27	5573	0.009389	-0.00441	1790	no	0.662	-
105 PCB 134/143	HxCB 362	19.89	2456	yes			-0.00498	1716	yes	0.586	-
106 PCB 139/140	360	20.19	151756	1.29	268900	0.386871	-0.00429	134	no	0.68	-
107 PCB 131	HxCB 362	20.19	117144	yes			-0.00544	271	no	0.537	-
108 PCB 142	360	NotFnd	*	*	*	-0.00203	-0.00466	3465	no	0.626	-
109 PCB 132	HxCB 362	20.42	*	no			-0.0052	3302	no	0.561	-
110 PCB 133	360	21.56	2237	1.33	3918	0.007791	-0.00444	158	no	0.657	-
111 PCB 165	HxCB 362	21.56	1680	yes			-0.00382	146	no	0.765	-
112 PCB 146	360	22.04	390751	1.3	692068	1.459952	-0.00414	79	no	0.705	-
113 PCB 161	HxCB 362	22.05	301316	yes			-0.00301	76	no	0.97	-
114 PCB 153/168	360	22.24	22986	1.28	40945	0.072557	-0.00343	37	no	0.852	-
115 PCB 141	HxCB 362	22.23	17959	yes			-0.00429	36	no	0.681	-
116 PCB 130	360	22.50	45511	1.29	80855	0.15748	-0.00473	*	no	0.617	-
117 PCB 137	HxCB 362	22.52	35345	yes			-0.00481	7084	no	0.607	-
118 PCB 164	360	22.81	1466025	1.29	2600351	4.299764	-0.0032	6841	no	0.913	-
119 PCB 138/163/129	HxCB 362	22.82	1134326	yes			-0.00414	51	no	0.705	-
120 PCB 160	360	22.98	60401	1.37	104479	0.195268	-0.00355	53	no	0.822	-
121 PCB 158	HxCB 362	23.07	44077	yes			-0.00291	245	no	1.004	-
122 PCB 128/166	360	23.32	36864	1.29	65369	0.105322	-0.00377	242	no	0.774	-
123 PCB 159	HxCB 362	23.33	28505	yes			-0.00222	63	no	1.179	-
124 PCB 162	360	23.50	16546	1.33	29032	0.059204	-0.00238	62	yes	1.101	-
125 PCB 167	HxCB 362	23.50	12486	yes			-0.00277	58	no	0.946	-
126 PCB 156/157	360	NotFnd	*	*	*	-0.00466	-0.00258	55	no	1.017	-
127 PCB 169	HxCB 362	23.66	*	no			-0.00275	5947	no	0.954	-
128 PCB 188	360	23.89	470818	1.29	836515	1.634815	-0.00092	5775	no	1.012	-
129 PCB 179	HxCB 362	23.89	365697	yes			-0.00089	*	no	1.047	-
130 PCB 184	360	24.30	32781	1.29	58216	0.097073	-0.00097	643	no	0.961	-
131 PCB 176	HxCB 362	24.33	25435	yes			-0.00091	611	no	1.027	-
132 PCB 186	360	24.67	1447	1.22	2633	-0.00382	-0.00104	705	no	0.899	-
133 PCB 178	HxCB 362	24.67	1185	no			-0.00129	672	no	0.722	-
134 PCB 175	360	24.89	439846	1.29	781705	1.214839	-0.00124	*	no	0.753	-
135 PCB 187	HxCB 362	24.87	341859	yes			-0.00129	28	yes	0.723	-
136 PCB 182	360	NotFnd	*	*	*	-0.00301	-0.00125	26	no	0.747	-
	HxCB 362	25.02	*	no				373			
	360	25.44	3304175	1.29	5872824	7.549158		367			
	HxCB 362	25.47	2568649	yes				565			
	360	25.62	24654	1.26	44225	0.071098		550			
	HxCB 362	25.61	19571	yes				*			
	360	25.99	120791	1.28	215104	0.381923		*			
	HxCB 362	26.00	94312	yes				10			
	360	26.21	29416	1.26	52776	0.095185		11			
	HxCB 362	26.20	23360	yes				1297			
	360	26.31	27320	1.3	48304	0.057955		1282			
	HxCB 362	26.29	20984	yes				*			
	360	26.60	2942363	1.29	5230294	8.131589		*			
	HxCB 362	26.61	2287932	yes				350			
	360	NotFnd	*	*	*	-0.00355		339			
	HxCB 362	26.79	*	no				*			
	360	26.97	312075	1.3	551450	0.601408		*			
	HxCB 362	26.97	239375	yes				558			
	360	27.81	371725	1.29	659471	0.933472		554			
	HxCB 362	27.80	287746	yes				94			
	360	NotFnd	*	*	*	-0.00222		95			
	HxCB 362	28.77	*	no				4356			
	360	29.06	12199	1.29	21621	0.021503		4306			
	HxCB 362	29.06	9422	yes				*			
	360	29.54	195013	1.27	348695	0.303186		*			
	HxCB 362	29.54	153683	yes							
	360	30.69	329871	1.26	590909	0.519592					
	HxCB 362	30.72	261038	yes							
	360	NotFnd	*	*	*	-0.00275					
	HxCB 362	34.12	*	no							
	394	24.23	1202	1.16	2241	0.003645					
	HpCB 396	24.24	1039	yes							
	394	24.53	151981	1.08	292768	0.371581					
	HpCB 396	24.53	140787	yes							
	394	NotFnd	*	*	*	-0.00097					
	HpCB 396	25.01	*	no							
	394	25.33	42166	1.08	81196	0.105074					
	HpCB 396	25.33	39030	yes							
	394	NotFnd	*	*	*	-0.00104					
	HpCB 396	25.76	*	no							
	394	27.01	68091	1.06	132132	0.243202					
	HpCB 396	27.02	64041	yes							
	394	27.63	11504	1.04	22540	0.039817					
	HpCB 396	27.63	11036	yes							
	394	27.88	538821	1.07	1044597	1.919855					
	HpCB 396	27.89	505775	yes							
	394	NotFnd	*	*	*	-0.00125					
	HpCB 396	28.11	*	no							

137 PCB 183		**394**	**28.49**	**343843**	**1.08**	**662558**	**0.758281**	-0.0026	891	yes	1.162	-
	HpCB	396	28.51	318715	yes				872			
138 PCB 185		394	NotFnd	*	*	*	-0.00355	-0.00355	*	no	0.851	-
	HpCB	396	28.57	*	no				*			
139 PCB 174		**394**	**28.72**	**1180**	**1.03**	**2327**	**0.003189**	-0.00312	4	no	0.97	-
	HpCB	396	28.73	1147	yes				5			
140 PCB 177		**394**	**29.15**	**231165**	**1.09**	**443695**	**0.625517**	-0.00321	585	no	0.943	-
	HpCB	396	29.15	212530	yes				569			
141 PCB 181		394	NotFnd	*	*	*	-0.00339	-0.00339	*	no	0.892	-
	HpCB	396	29.57	*	no				*			
142 PCB 171/173		**394**	**29.79**	**108412**	**1.07**	**209531**	**0.29374**	-0.00319	281	no	0.948	-
	HpCB	396	29.79	101119	yes				271			
143 PCB 172		**394**	**31.44**	**3888**	**1.06**	**7570**	**0.010595**	-0.00318	10	no	0.95	-
	HpCB	396	31.43	3683	yes				10			
144 PCB 192		394	NotFnd	*	*	*	-0.00279	-0.00279	*	no	1.085	-
	HpCB	396	31.75	*	no				*			
145 PCB 193/180		**394**	**32.14**	**295143**	**1.08**	**569495**	**0.649533**	-0.00219	688	no	1.383	-
	HpCB	396	32.07	274352	yes				677			
146 PCB 191		**394**	**32.49**	**5606**	**1.06**	**10888**	**0.010704**	-0.00224	14	yes	1.352	-
	HpCB	396	32.49	5282	yes				13			
147 PCB 170		**394**	**33.44**	**40584**	**1.08**	**78100**	**0.109763**	-0.00238	90	no	1.271	-
	HpCB	396	33.46	37516	yes				92			
148 PCB 190		**394**	**34.03**	**35330**	**1.05**	**68999**	**0.068214**	-0.00225	82	no	1.345	-
	HpCB	396	34.03	33669	yes				82			
149 PCB 189		**394**	**36.88**	**13607**	**1.04**	**26725**	**0.023458**	-0.0011	53	no	0.944	-
	HpCB	396	36.89	13118	yes				53			
150 PCB 202		**428**	**29.27**	**53842**	**0.9**	**113667**	**0.20211**	-0.00647	90	no	0.988	-
	OcCB	430	29.28	59825	yes				88			
151 PCB 201		**428**	**30.20**	**25154**	**0.88**	**53709**	**0.077462**	-0.00641	40	no	0.997	-
	OcCB	430	30.19	28554	yes				41			
152 PCB 204		428	NotFnd	*	*	*	-0.00664	-0.00664	*	no	0.962	-
	OcCB	430	30.89	*	no				*			
153 PCB 197		**428**	**31.12**	**7470**	**0.9**	**15732**	**0.025806**	-0.00729	11	no	0.876	-
	OcCB	430	31.13	8262	yes				11			
154 PCB 200		428	NotFnd	*	*	*	-0.00635	-0.00635	*	no	1.006	-
	OcCB	430	31.25	*	no				*			
155 PCB 198/199		428	34.21	1884	0.88	4025	-0.00977	-0.00977	*	no	0.654	-
	OcCB	430	34.20	2141	no				*			
156 PCB 196		428	34.91	1502	0.88	3208	-0.00948	-0.00948	*	no	0.674	-
	OcCB	430	34.91	1706	no				*			
157 PCB 203		**428**	**35.13**	**10475**	**0.89**	**22274**	**0.048603**	-0.0097	15	no	0.659	-
	OcCB	430	35.11	11799	yes				16			
158 PCB 195		**428**	**36.58**	**2334**	**0.94**	**4821**	**0.006897**	-0.00199	8	no	1.005	-
	OcCB	430	36.58	2487	yes				8			
159 PCB 194		**428**	**39.21**	**16038**	**0.95**	**32888**	**0.043333**	-0.00183	56	no	1.091	-
	OcCB	430	39.20	16850	yes				53			
160 PCB 205		**428**	**39.74**	**1810**	**0.96**	**3703**	**0.004131**	-0.00183	6	no	1.091	-
	OcCB	430	39.76	1893	yes				6			
161 PCB 208		462	NotFnd	*	*	*	-0.00282	-0.00282	*	no	1.023	-
	NoCB	464	36.31	*	no				*			
162 PCB 207		462	NotFnd	*	*	*	-0.00218	-0.00218	*	no	1.32	-
	NoCB	464	37.33	*	no				*			
163 PCB 206		**462**	**41.74**	**1482**	**0.81**	**3322**	**0.007307**	-0.00281	6	no	1.027	-
	NoCB	464	41.71	1839	yes				5			
164 PCB 209		**498**	**43.57**	**2263**	**1.18**	**4181**	**0.011078**	-0.00106	26	no	1.04	-
	DCB	500	43.55	1918	yes				25			
165 PCB 1L		**200**	**8.98**	**176403**	**3.45**	**227526**	**0.187999**	0	10525	no	0.824	74
		202	8.98	51123	yes				380			
166 PCB 3L		**200**	**10.17**	**179450**	**3.53**	**230326**	**0.183933**	0	11064	no	0.852	73
		202	10.17	50877	yes				393			
167 PCB 4L		**234**	**10.29**	**67166**	**1.66**	**107523**	**0.134878**	0	3593	no	0.543	53
		236	10.29	40358	yes				4068			
168 PCB 15L		**234**	**12.94**	**190832**	**1.64**	**307501**	**0.194826**	0	2213	no	1.074	77
		236	12.92	116669	yes				934			
169 PCB 19L		**268**	**11.67**	**67491**	**1.1**	**129056**	**0.151919**	0.001	573	no	0.578	60
		270	11.67	61565	yes				789			
170 PCB 37L		**268**	**16.69**	**188211**	**1.05**	**367625**	**0.269838**	0.002	303	no	1.987	106
		270	16.68	179414	yes				816			
171 PCB 54L		**302**	**13.07**	**57991**	**0.79**	**131126**	**0.147382**	0	911	no	1.297	58
		304	13.07	73135	yes				3833			
172 PCB 81L		**302**	**21.42**	**137588**	**0.81**	**307529**	**0.258028**	0	983	no	1.738	102
		304	21.41	169940	yes				2368			
173 PCB 77L		**302**	**21.86**	**126579**	**0.79**	**286355**	**0.248974**	0	880	no	1.677	98
		304	21.84	159776	yes				2221			
174 PCB 104L		**338**	**15.92**	**84373**	**1.7**	**133920**	**0.188419**	0	5645	no	1.156	74
		340	15.94	49548	yes				4513			
175 PCB 123L		**338**	**23.50**	**177791**	**1.63**	**287170**	**0.2412**	0	3056	no	1.936	95
		340	23.52	109379	yes				1913			
176 PCB 118L		**338**	**23.78**	**177373**	**1.63**	**286548**	**0.244474**	0	3070	no	1.906	96
		340	23.77	109175	yes				1913			
177 PCB 114L		**338**	**24.27**	**165876**	**1.61**	**268863**	**0.246588**	0	2773	no	1.773	97
		340	24.27	102986	yes				1780			
178 PCB 105L		**338**	**24.82**	**170737**	**1.59**	**277833**	**0.247885**	0	2861	no	1.822	98
		340	24.82	107096	yes				1831			
179 PCB 126L		**338**	**27.70**	**164547**	**1.6**	**267303**	**0.250435**	0	2576	no	1.735	99
		340	27.69	102757	yes				1626			
180 PCB 155L		**372**	**19.62**	**81618**	**1.28**	**145176**	**0.166096**	0	6354	no	1.404	65
		374	19.62	63558	yes				3702			
181 PCB 167L		**372**	**29.51**	**172229**	**1.26**	**308432**	**0.234743**	0	1465	no	2.11	93
		374	29.50	136203	yes				1447			
182 PCB 156L/157L		**372**	**30.69**	**318748**	**1.28**	**567265**	**0.474202**	0	2196	no	1.921	93
		374	30.70	248517	yes				2139			
183 PCB 169L		**372**	**34.09**	**106303**	**1.28**	**189003**	**0.160899**	0.001	827	no	1.886	63
		374	34.08	82700	yes				819			

184 PCB 188L	**406**	**24.21**	**80776**	**1.1**	**154118**	**0.18616**	0	4383	no	1.329	73		
	408	24.22	73341	yes				3713					
185 PCB 180L	**406**	**32.10**	**83904**	**1.09**	**160865**	**0.192517**	0	1500	no	1.349	76		
	408	32.10	76960	yes				1800					
186 PCB 170L	**406**	**33.43**	**73429**	**1.07**	**142009**	**0.194206**	0	1333	yes	1.18	77		
	408	33.43	68579	yes				1591					
187 PCB 189L	**406**	**36.85**	**156827**	**1.05**	**306216**	**0.229087**	0	2798	no	2.157	90		
	408	36.84	149389	yes				2378					
188 PCB 202L	**440**	**29.26**	**69330**	**0.92**	**144454**	**0.164244**	0	4091	no	1.419	65		
	442	29.28	75124	yes				3983					
189 PCB 205L	**440**	**39.72**	**98814**	**0.9**	**208471**	**0.219717**	0	1684	no	1.531	87		
	442	39.74	109657	yes				1926					
190 PCB 208L	**474**	**36.28**	**58655**	**0.81**	**131426**	**0.186155**	0	1849	no	1.139	73		
	476	36.29	72771	yes				2225					
191 PCB 206L	**474**	**41.71**	**49213**	**0.78**	**112326**	**0.238674**	0	1388	no	0.76	94		
	476	41.74	63113	yes				1671					
192 PCB 209L	**510**	**43.55**	**52496**	**1.33**	**92060**	**0.205125**	0	4252	no	0.724	81		
	512	43.54	39564	yes				1916					
193 PCB 28L	**268**	**14.40**	**245650**	**1.06**	**478167**	**0.341899**	0.002	447	no	2.039	121		
PCB Cleanup Standard	270	14.42	232517	yes				1209					
194 PCB 111L	**338**	**21.84**	**148706**	**1.62**	**240767**	**0.291485**	0	3933	no	1.343	104		
PCB Cleanup Standard	340	21.85	92061	yes				4706					
195 PCB 178L	**406**	**26.99**	**65481**	**1.1**	**124862**	**0.273563**	0	3425	no	0.733	97		
PCB Cleanup Standard	408	26.98	59381	yes				2931					
196 PCB 31L	268	NotFnd	*	*	*		0.002		no	1.934			
PCB Audit Standard	270	14.25	*	no									
197 PCB 95L	338	NotFnd	*	*	*		0		no	0.946			
PCB Audit Standard	340	17.74	*	no									
198 PCB 153L	372	NotFnd	*	*	*		0		no	1.225			
PCB Audit Standard	374	25.41	*	no									
199 PCB 9L	**234**	**11.19**	**1273320**	**1.6**	**2070116**	**13.47634**	-	16463	no	-	-		
PCB Recovery Standard	236	11.19	796796	yes				7209					
200 PCB 52L	**302**	**15.36**	**428881**	**0.8**	**966357**	**9.72331**	-	6484	no	-	-		
PCB Recovery Standard	304	15.36	537476	yes				10415					
201 PCB 101L	**338**	**19.78**	**535400**	**1.62**	**866619**	**10.021**	-	14972	no	-	-		
PCB Recovery Standard	340	19.76	331218	yes				17724					
202 PCB 138L	**372**	**26.58**	**496737**	**1.3**	**877511**	**10.35242**	-	9389	no	-	-		
PCB Recovery Standard	374	26.56	380774	yes				10273					
203 PCB 194L	**440**	**39.19**	**422530**	**0.94**	**873087**	**10.25641**	-	7226	no	-	-		
PCB Recovery Standard	442	39.17	450557	yes				7957					

Chlorobiphenyls	0.047891	2	-0.00084
Dichlorobiphenyls	1.135293	8	-0.00404
Trichlorobiphenyls	7.219163	16	-0.00358
Tetrachlorobiphenyls	25.2554	26	-0.00249
Pentachlorobiphenyls	31.54948	26	-0.00258
Hexachlorobiphenyls	28.36985	25	-0.00544
Heptachlorobiphenyls	5.236168	16	-0.00355
Octachlorobiphenyls	0.408342	7	-0.00977
Nonachlorobiphenyls	0.007307	1	-0.00282
Decachlorobiphenyl	0.011078	1	-0.00106
PCB (total)	99.23997		

Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
Printed: February 22, 2016 09:47:16 AM Eastern Standard Time

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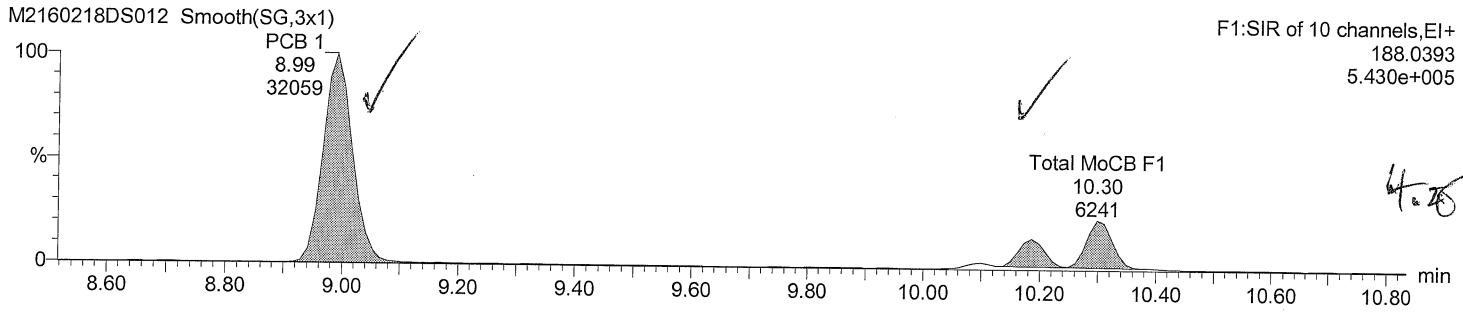
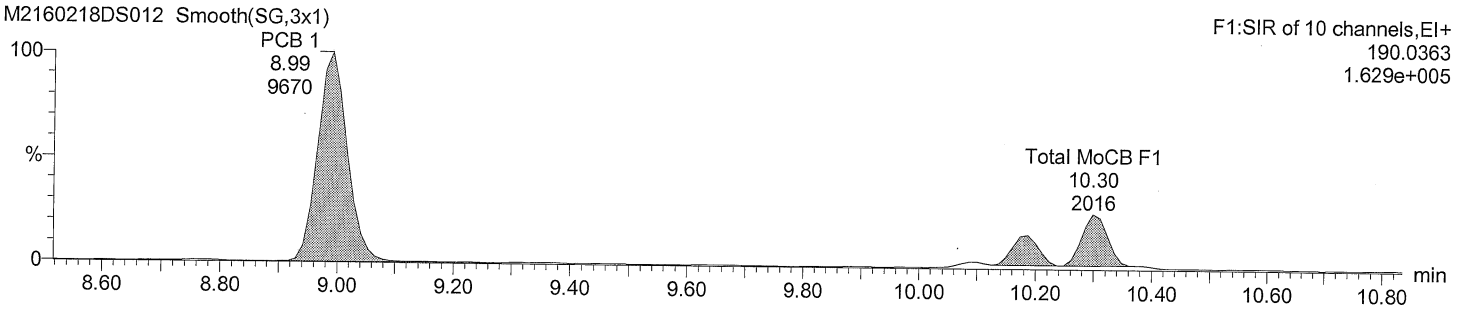
Calibration: C:\MassLynx\Default.pro\Curvedb\M2160218D_209.cdb 19 Feb 2016 11:38:57

ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

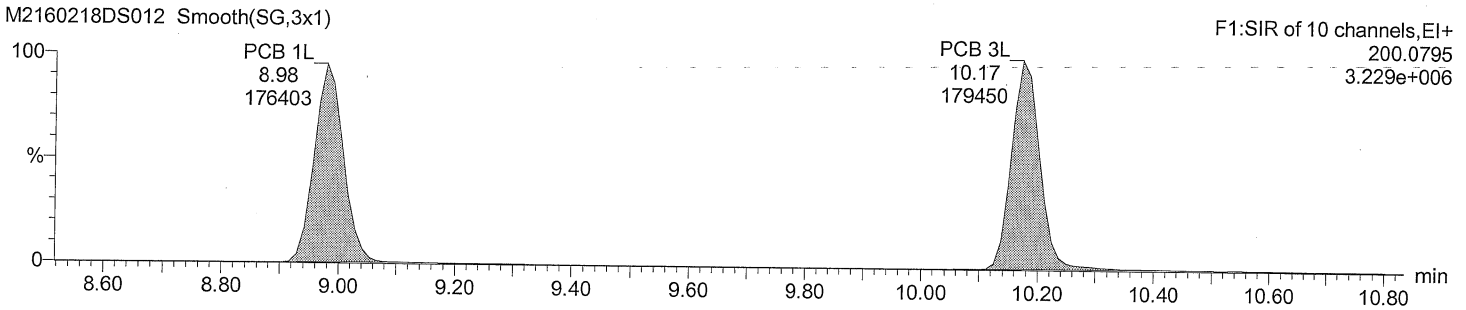
Total MoCB F1



Total MoCB F1



Total MoCB labeled F1



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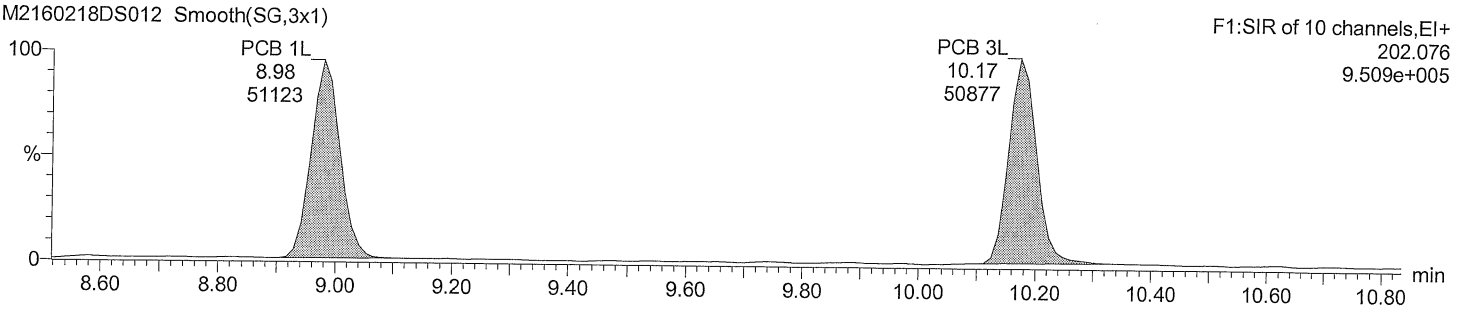
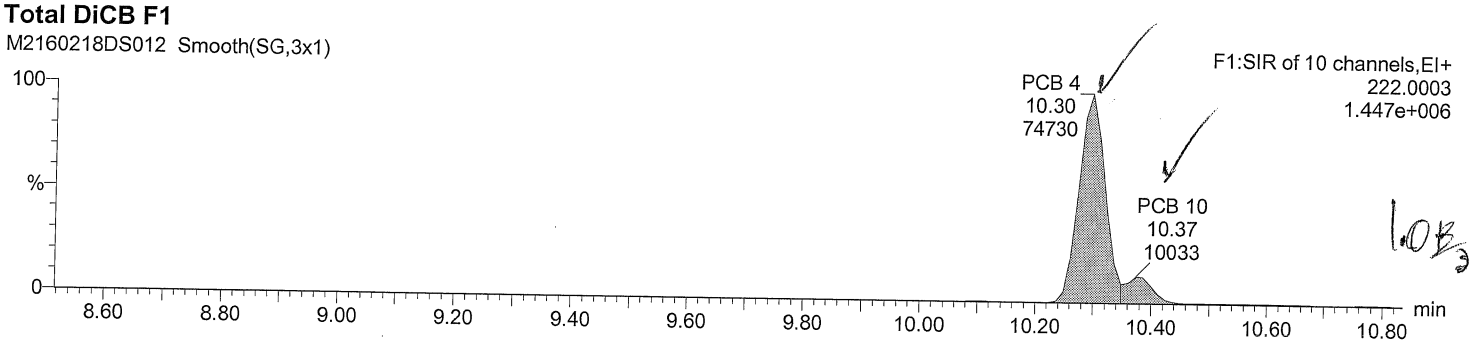


Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
Printed: February 22, 2016 09:47:16 AM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total DiCB F1
M2160218DS012 Smooth(SG,3x1)



Total DiCB F1
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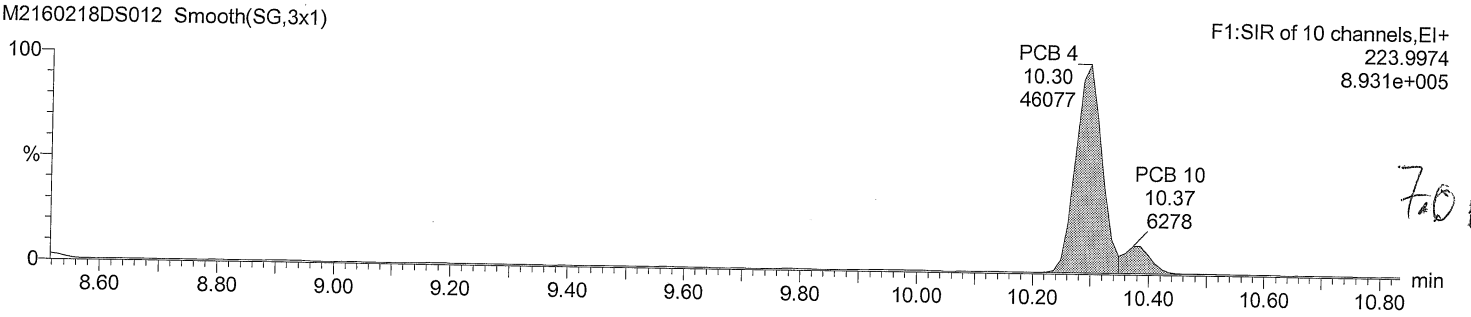
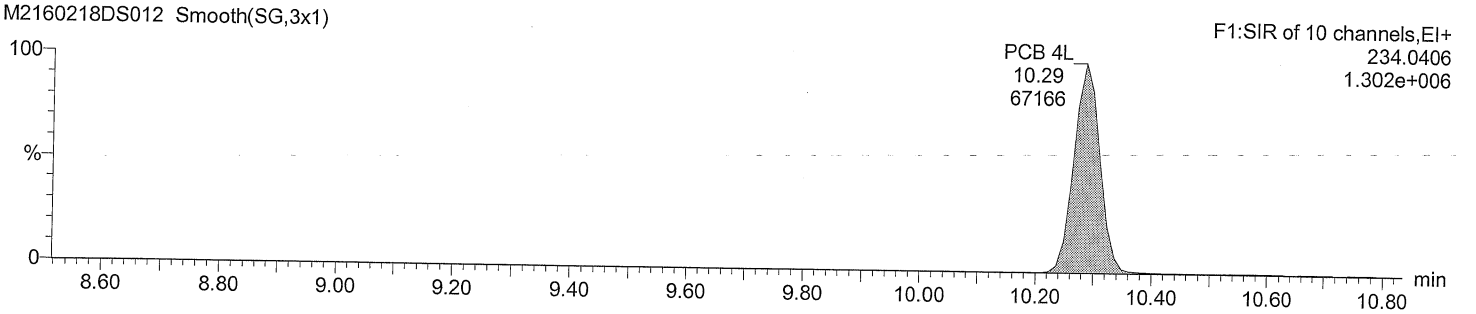
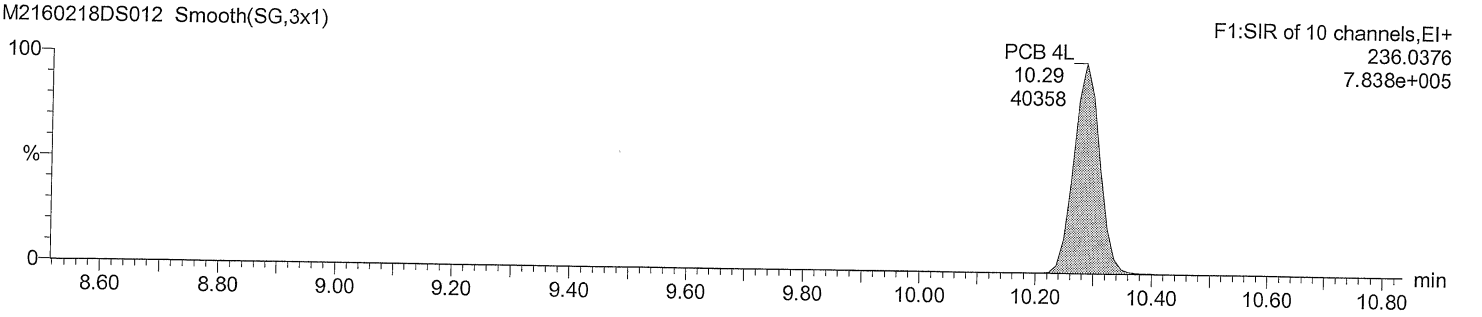


Total DiCB labeled F1
M2160218DS012 Smooth(SG,3x1)



Total DiCB labeled F1
M2160218DS012 Smooth(SG,3x1)



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Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
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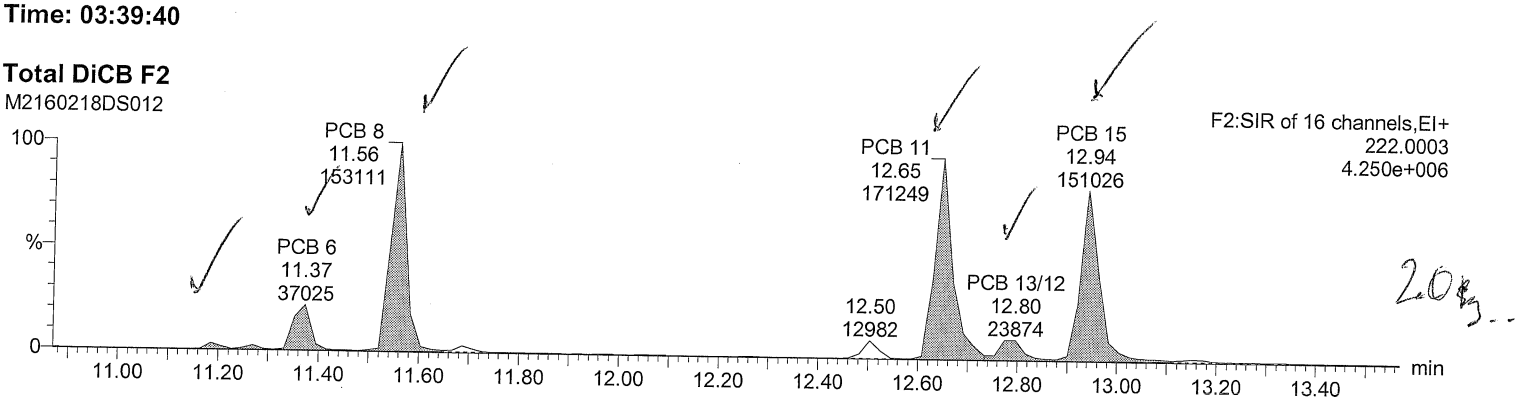
ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total DiCB F2
M2160218DS012



Total DiCB F2
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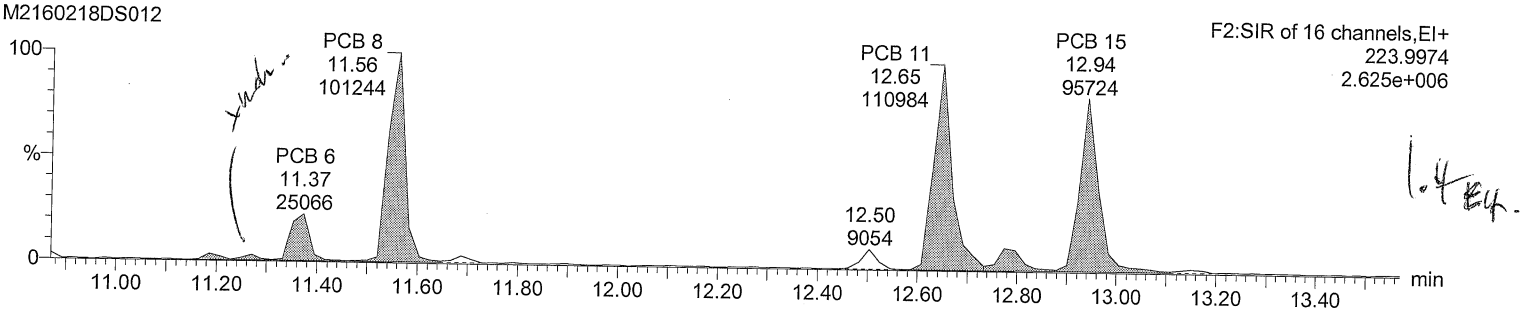
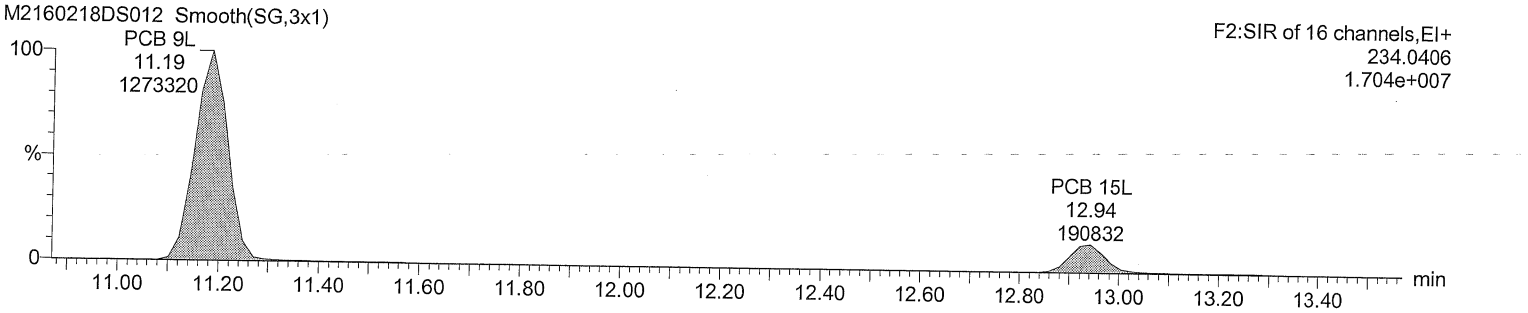
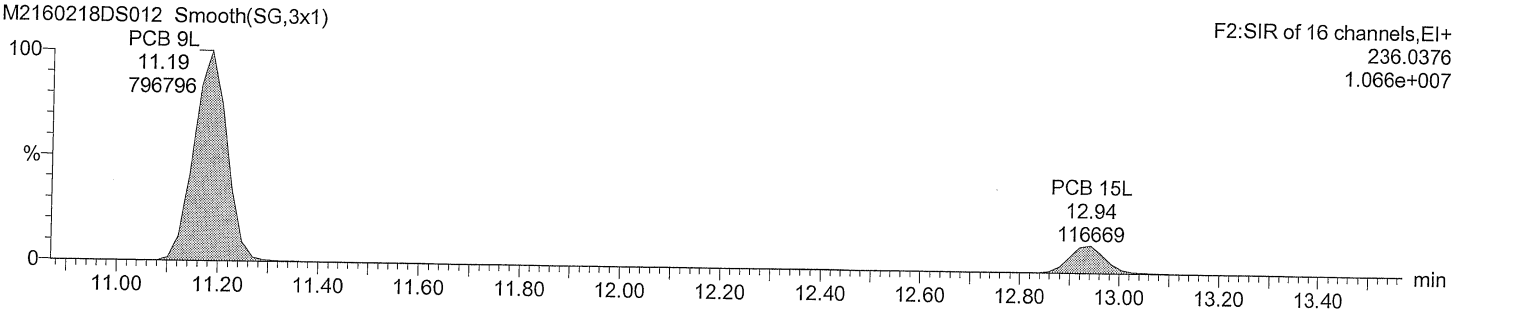


Total DiCB labeled F2
M2160218DS012 Smooth(SG,3x1)



Total DiCB labeled F2
M2160218DS012 Smooth(SG,3x1)



Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
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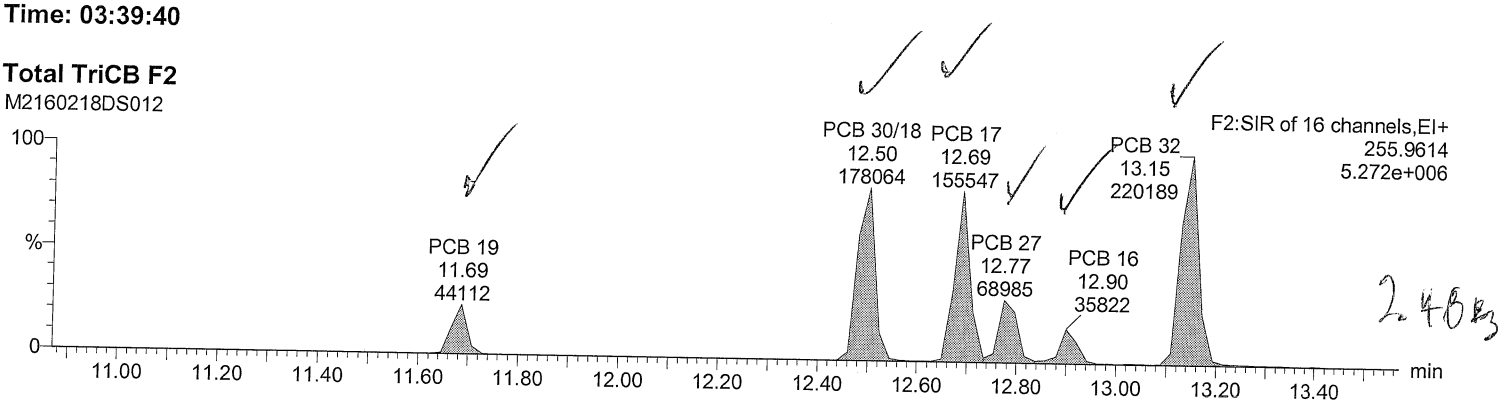
ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total TriCB F2
M2160218DS012



Total TriCB F2
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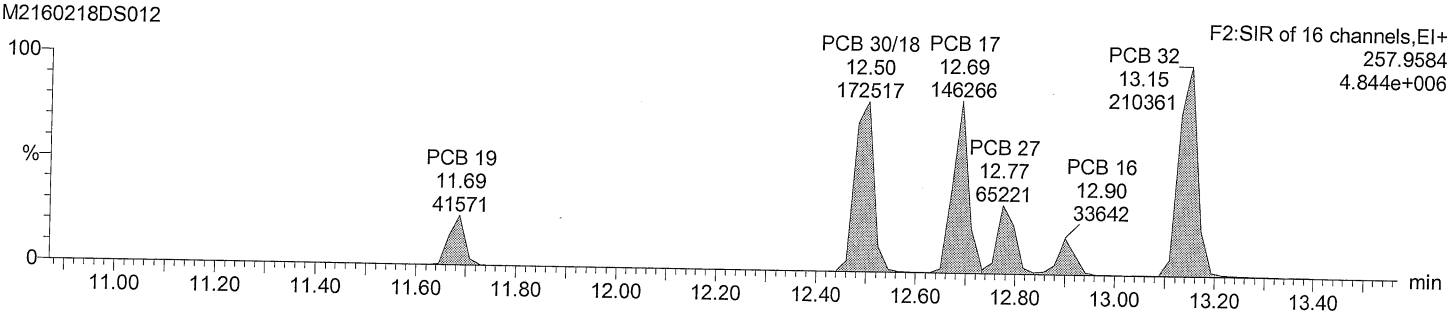

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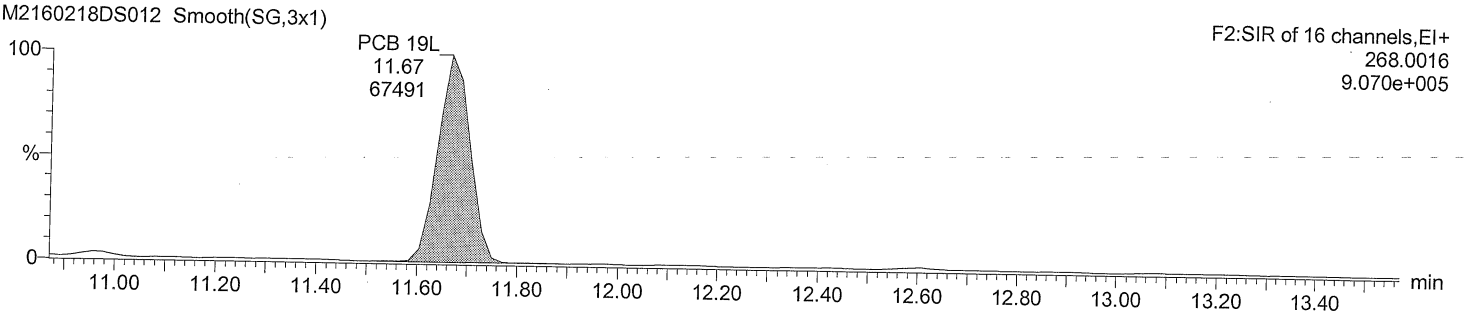
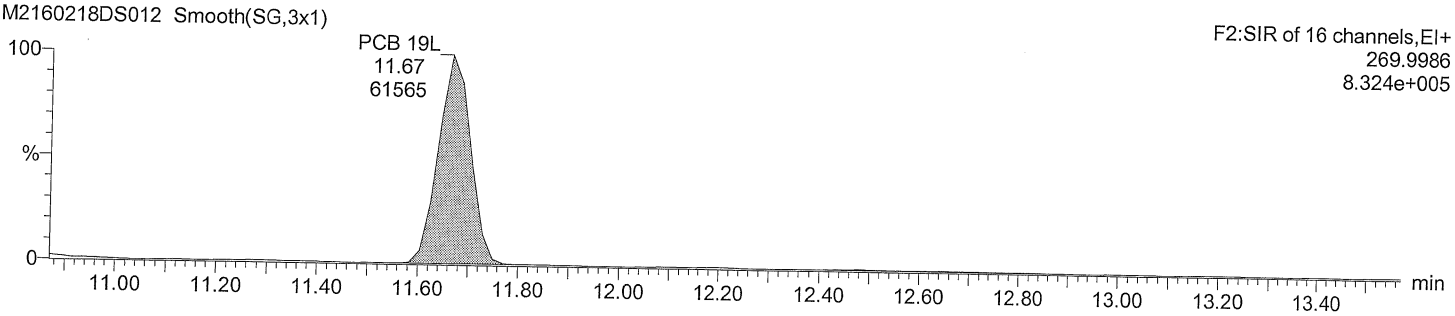
M2160218DS012 Smooth(SG,3x1)



Total TriCB labeled F2
M2160218DS012 Smooth(SG,3x1)



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Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
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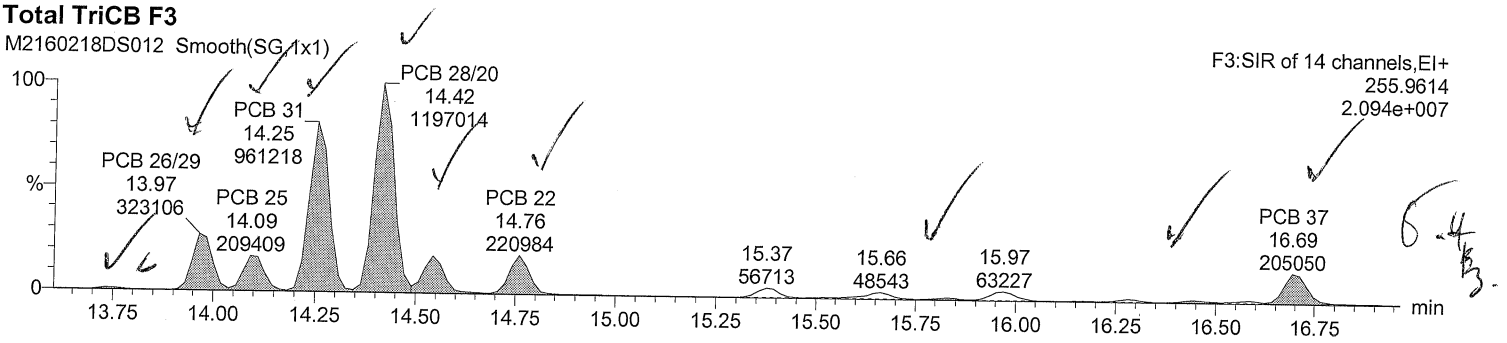
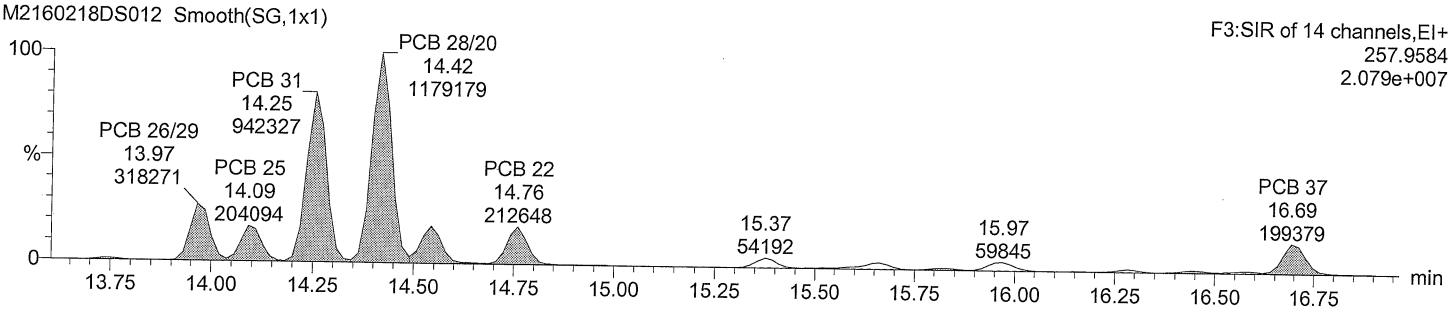
ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

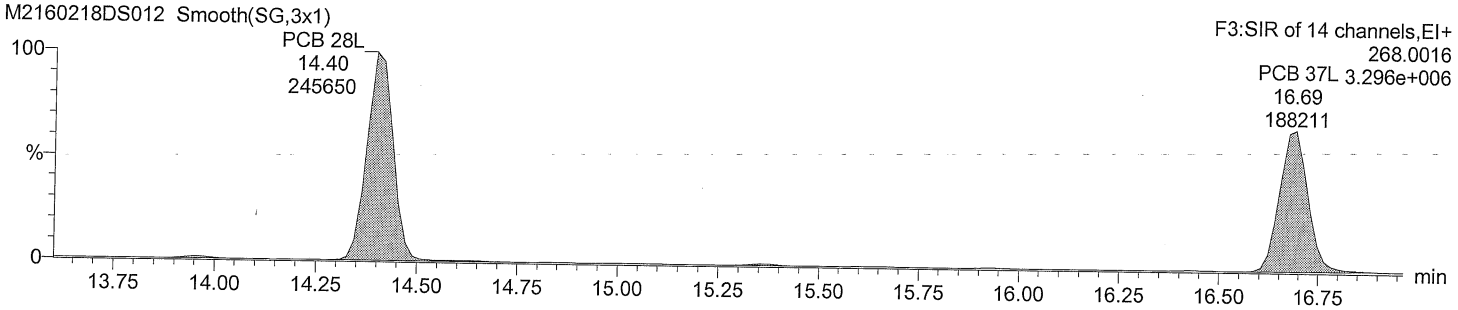
Total TriCB F3



Total TriCB F3



Total TriCB labeled F3



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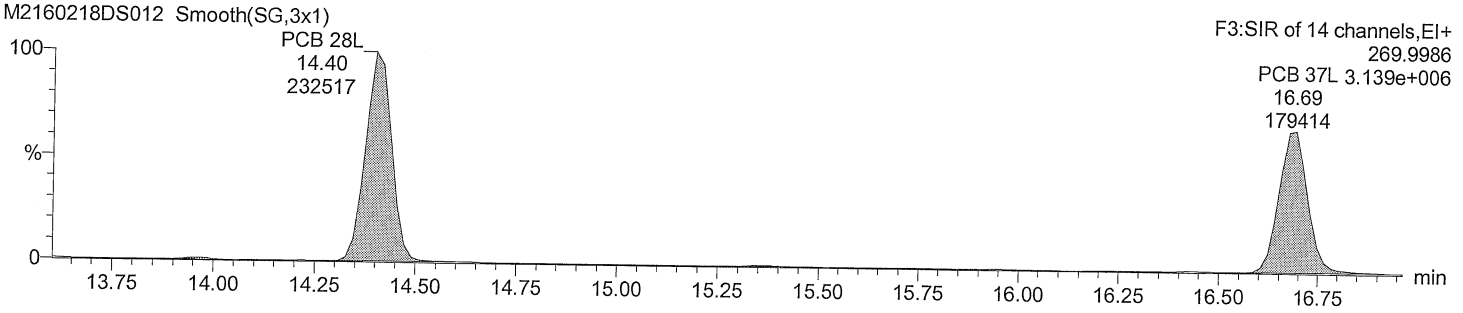

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Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
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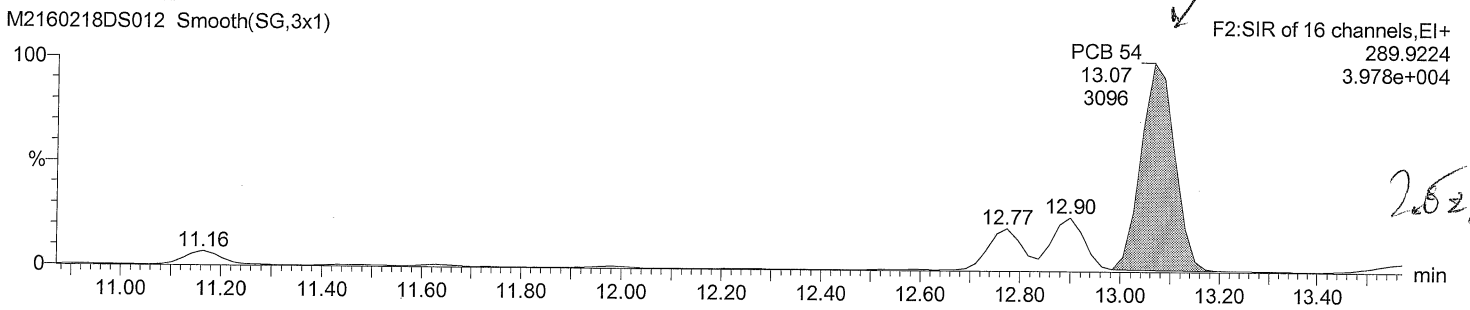
ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total TeCB F2



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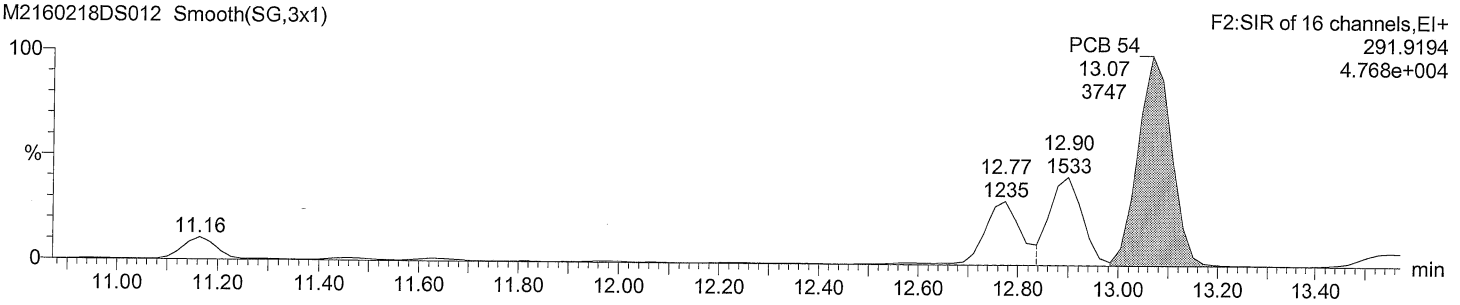

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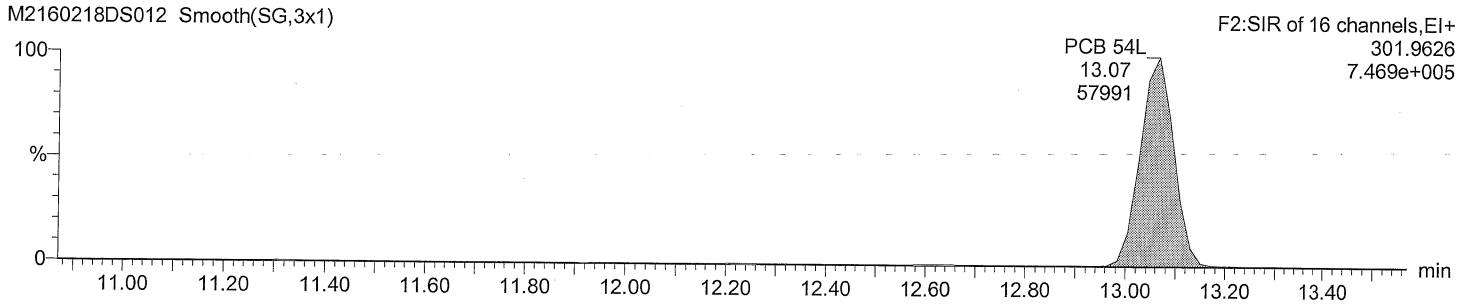

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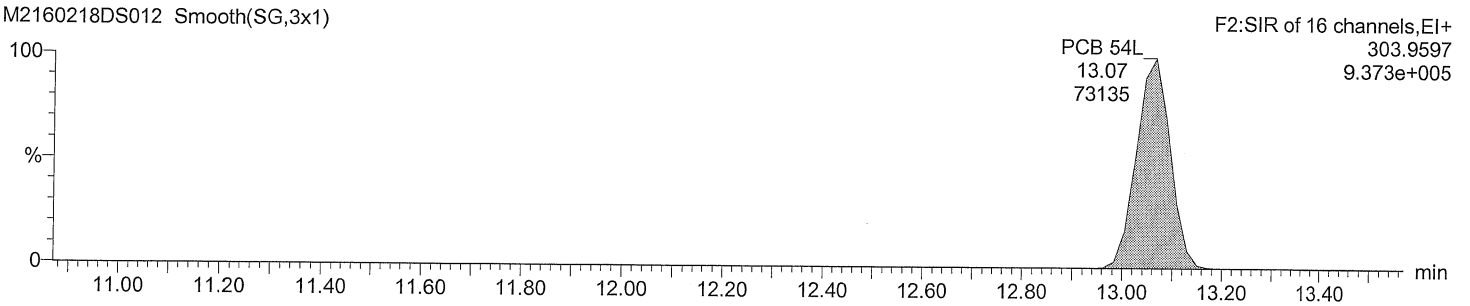


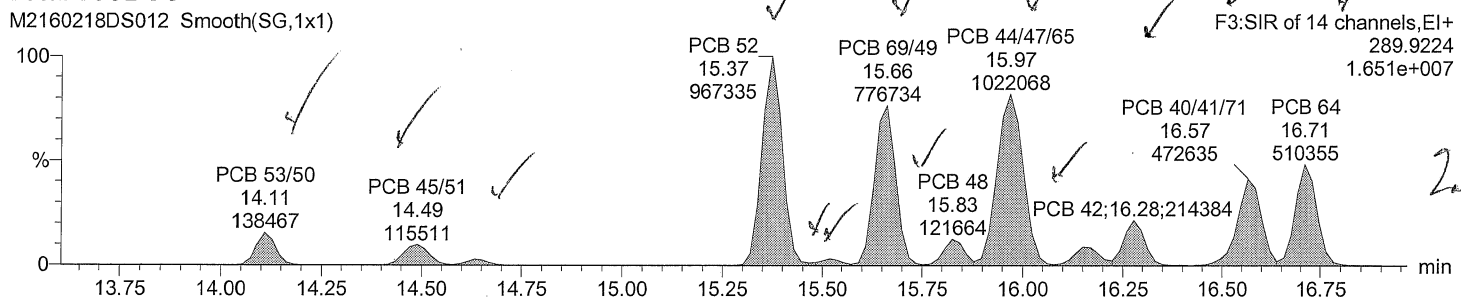
Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
Printed: February 22, 2016 09:47:16 AM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total TeCB F3



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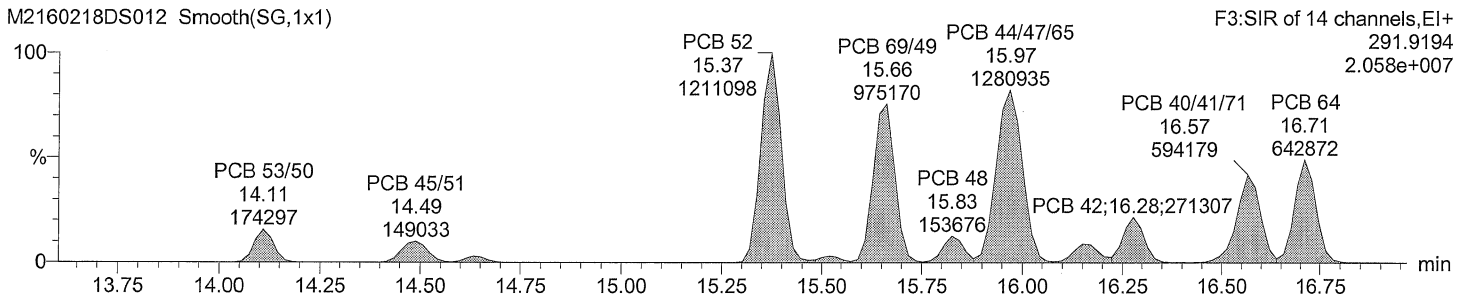

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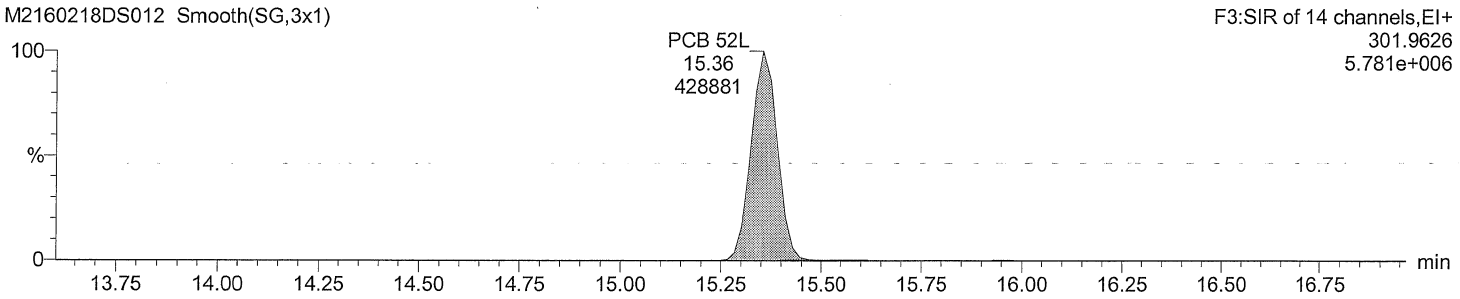

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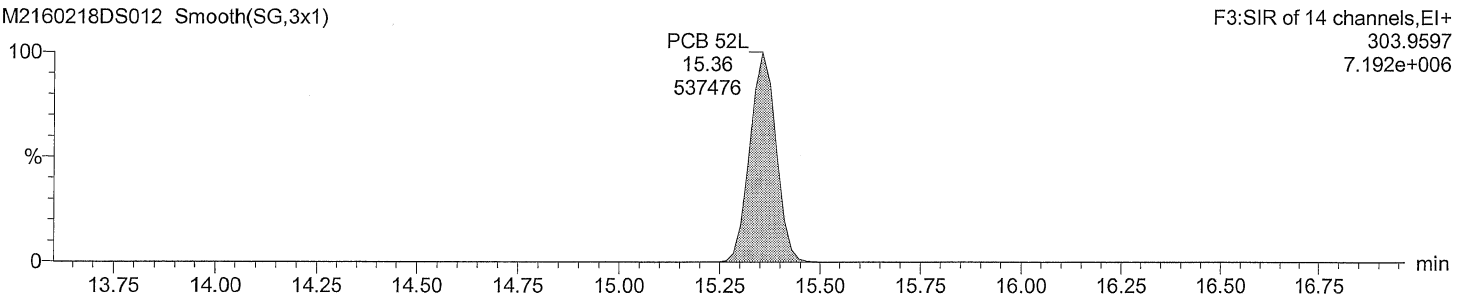


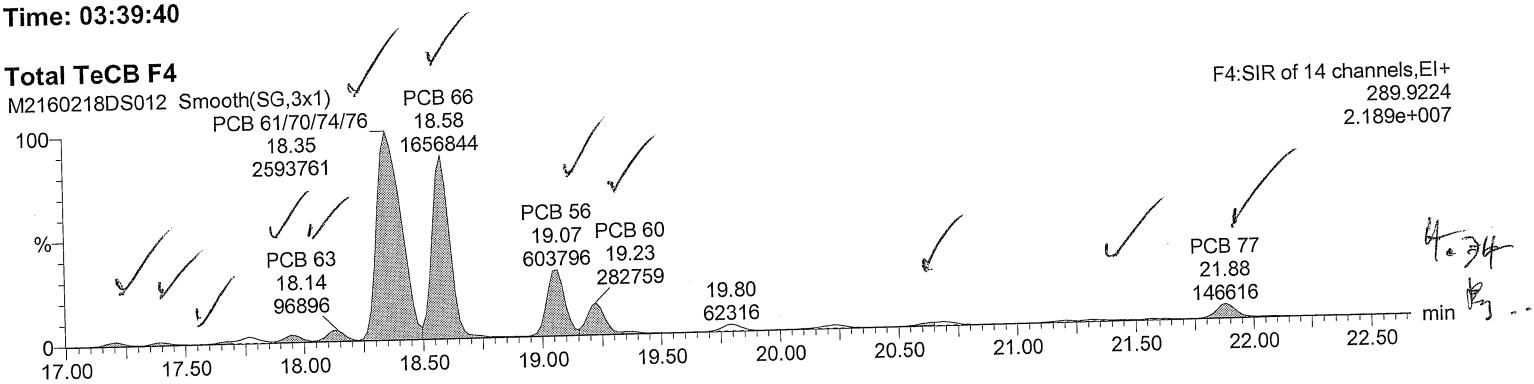
Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

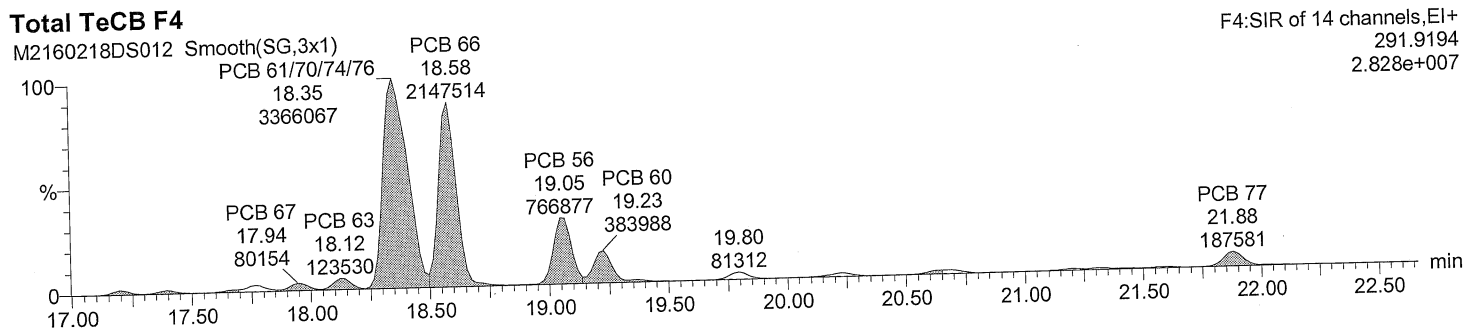
Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
Printed: February 22, 2016 09:47:16 AM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total TeCB F4



Total TeCB F4



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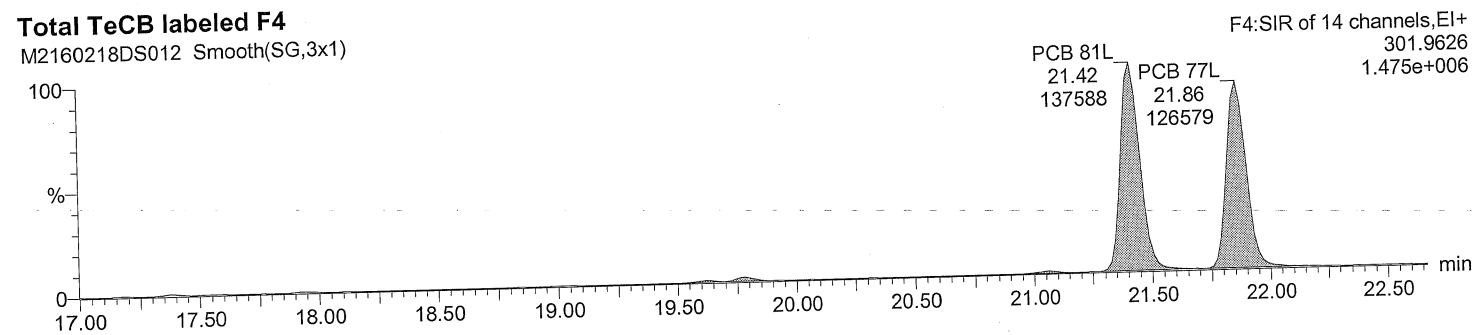

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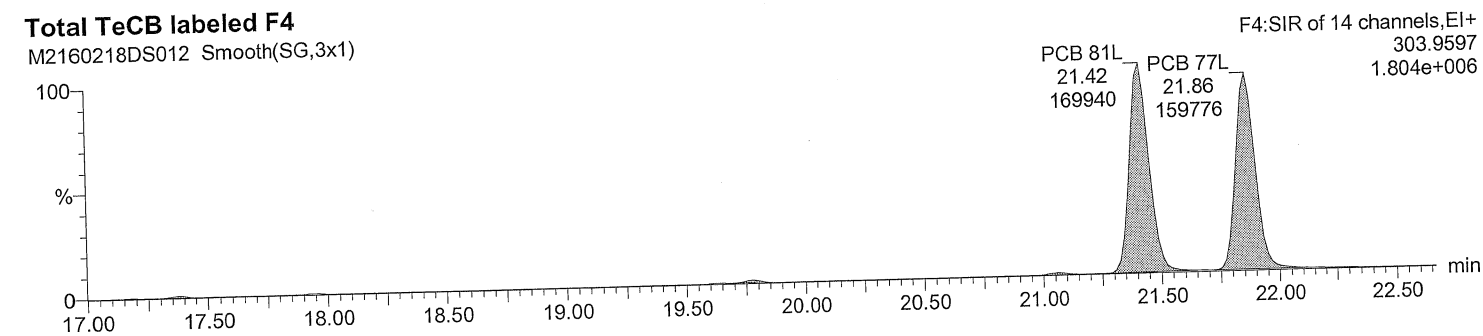


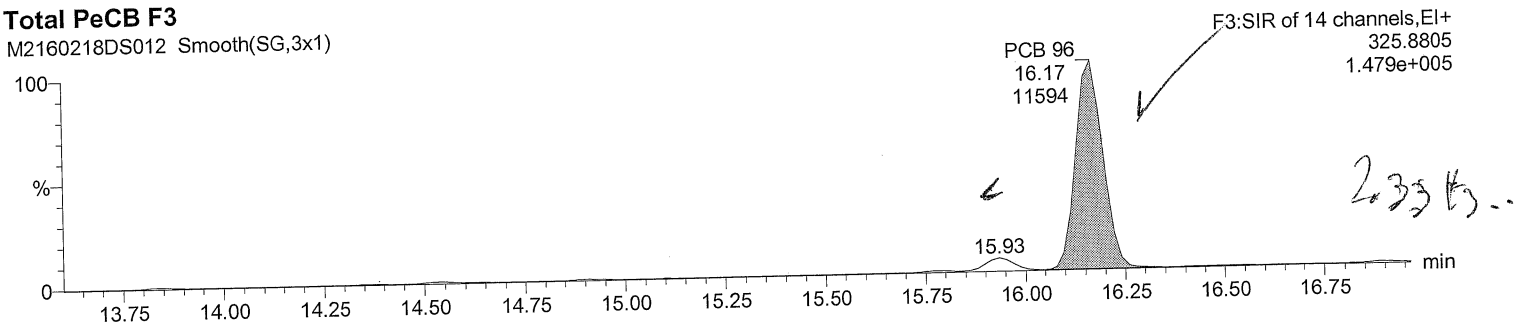
Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
Printed: February 22, 2016 09:47:16 AM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total PeCB F3
M2160218DS012 Smooth(SG,3x1)



Total PeCB F3
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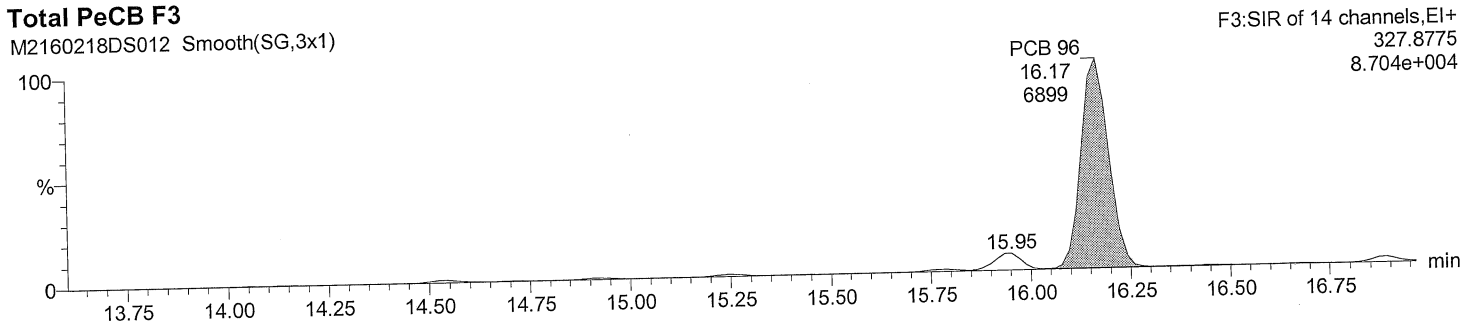

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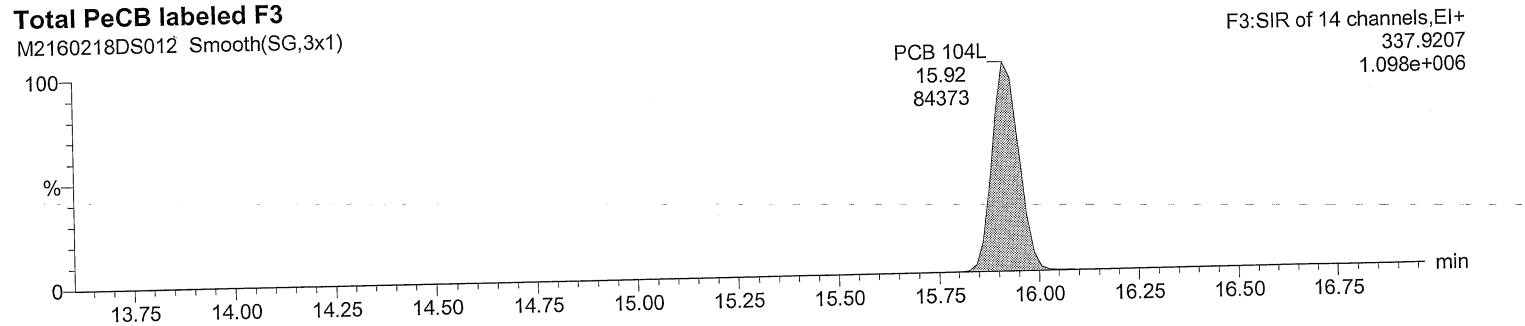

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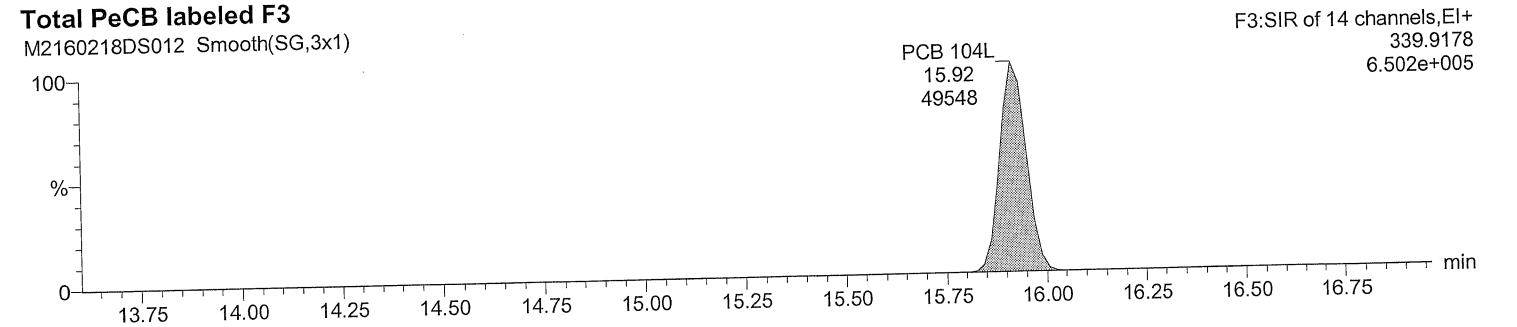

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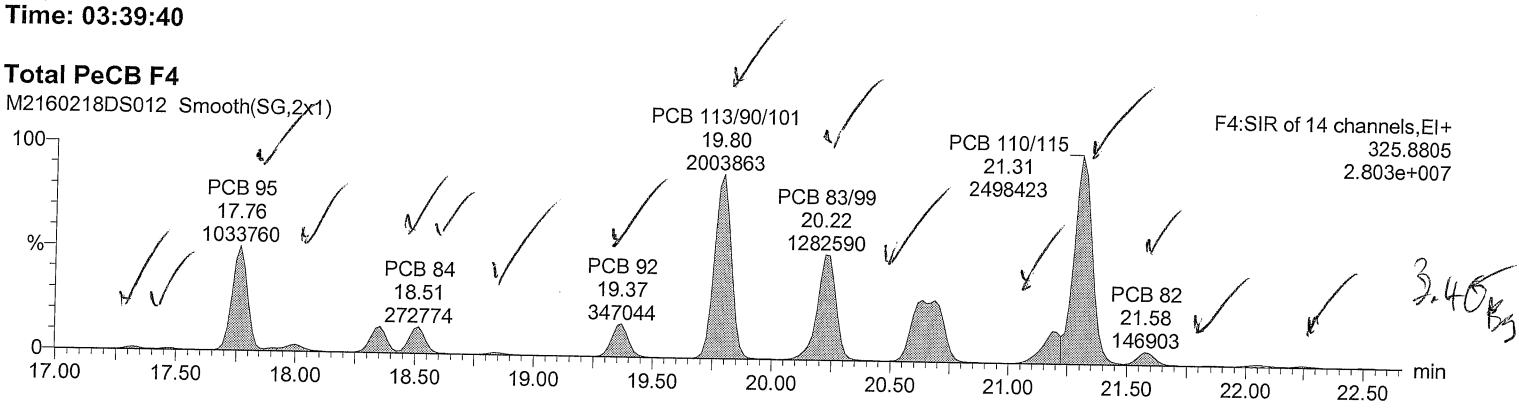
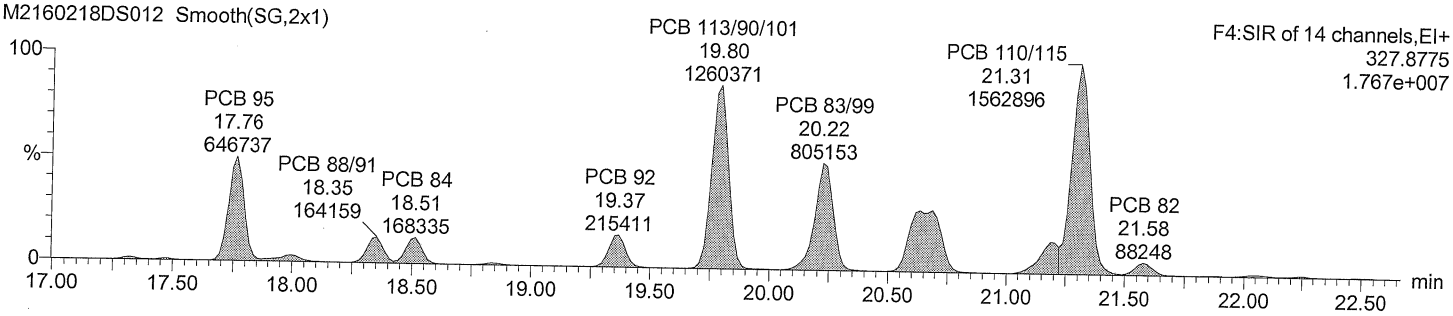
Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
Printed: February 22, 2016 09:47:16 AM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total PeCB F4
M2160218DS012 Smooth(SG,2x1)



Total PeCB F4
M2160218DS012 Smooth(SG,2x1)



Total PeCB labeled F4
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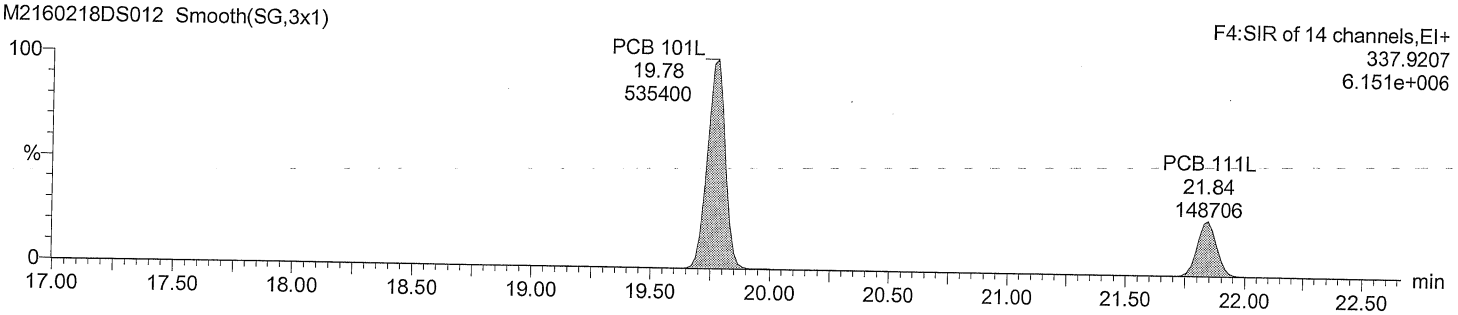

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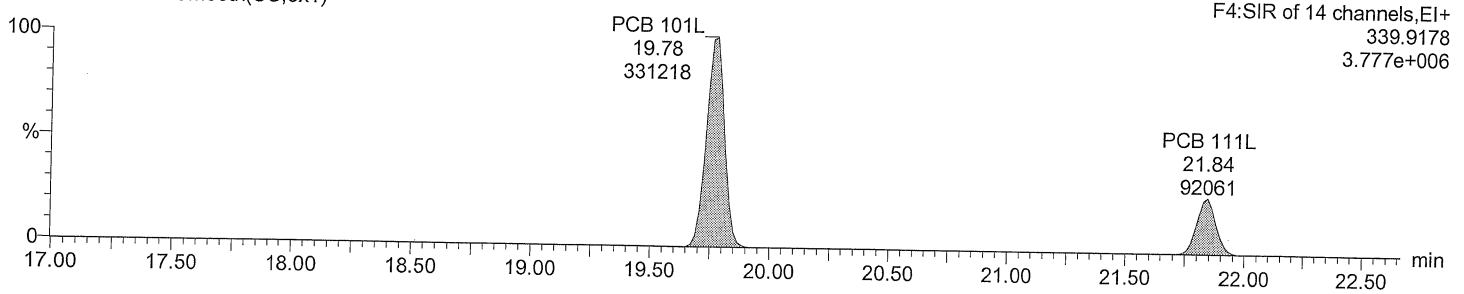

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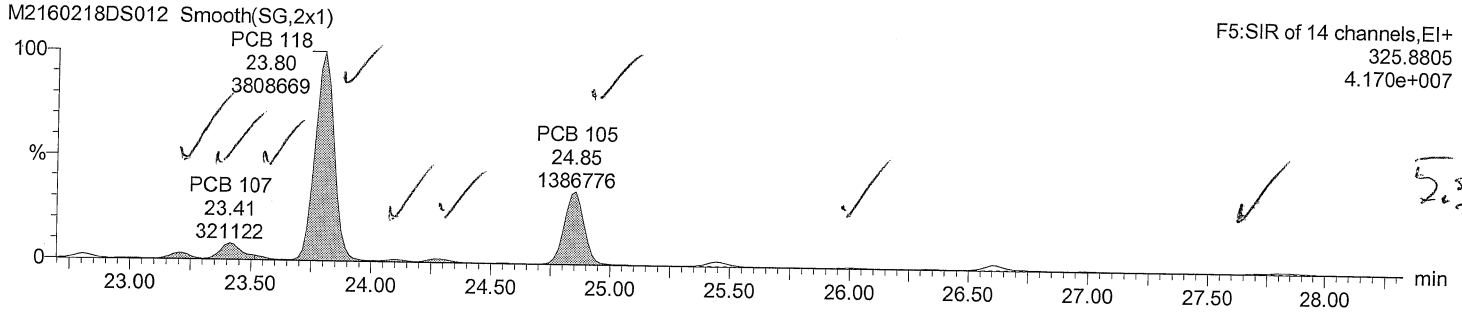
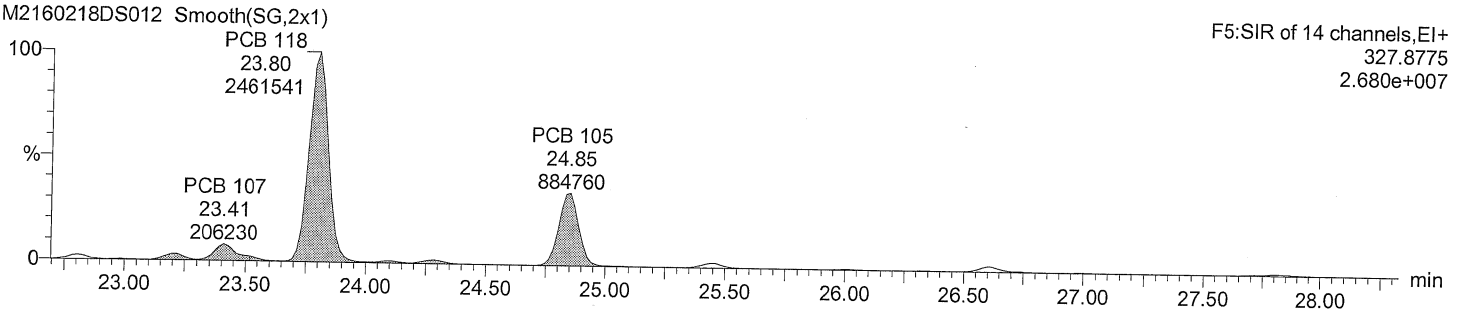
Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
Printed: February 22, 2016 09:47:16 AM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total PeCB F5



Total PeCB F5



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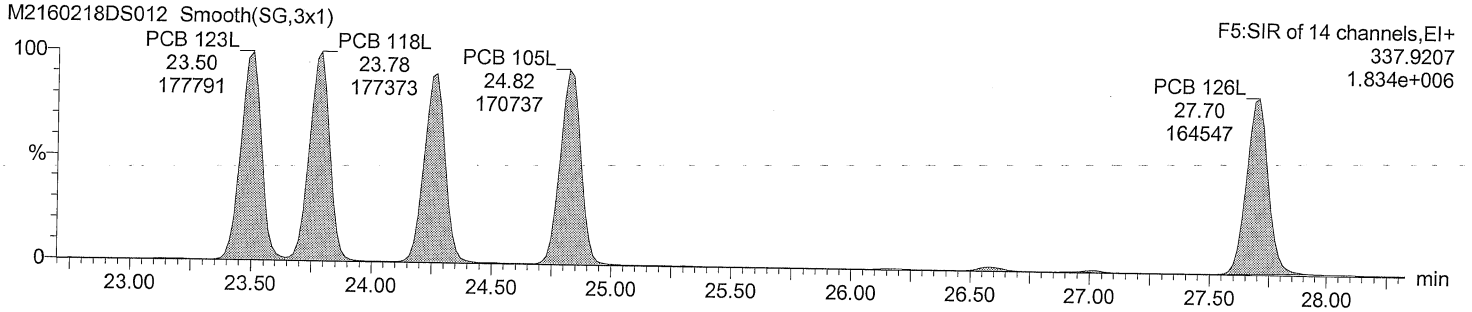

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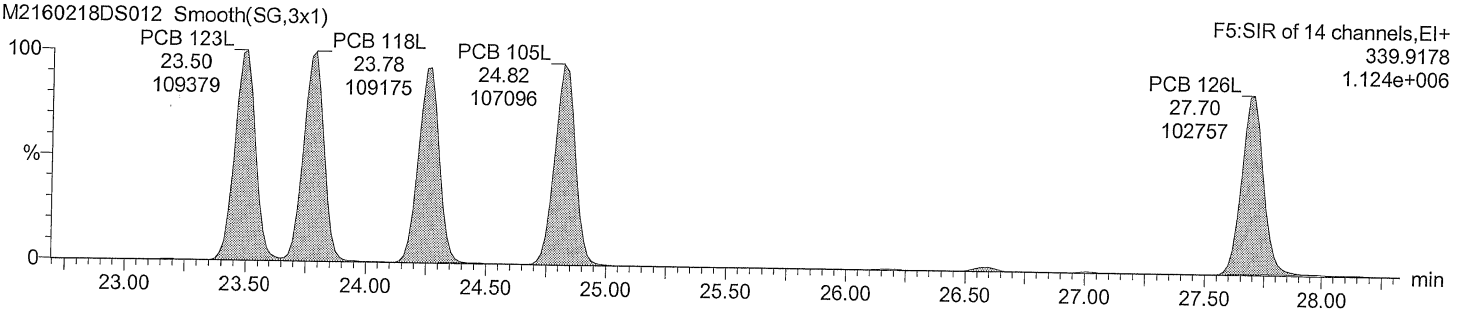
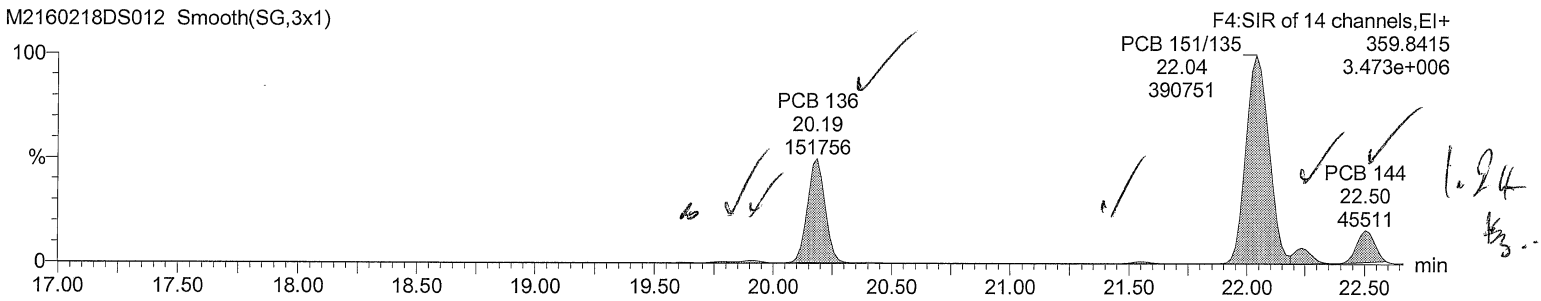


Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
Printed: February 22, 2016 09:47:16 AM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total HxCB F4



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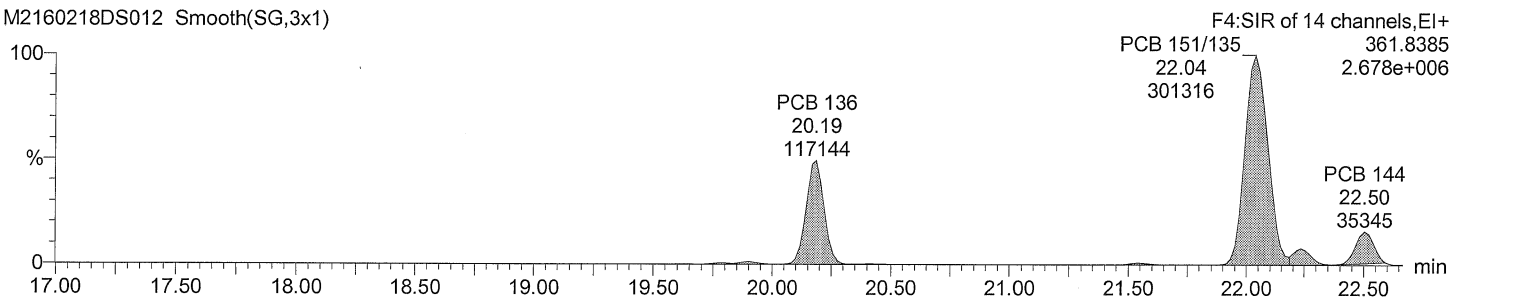

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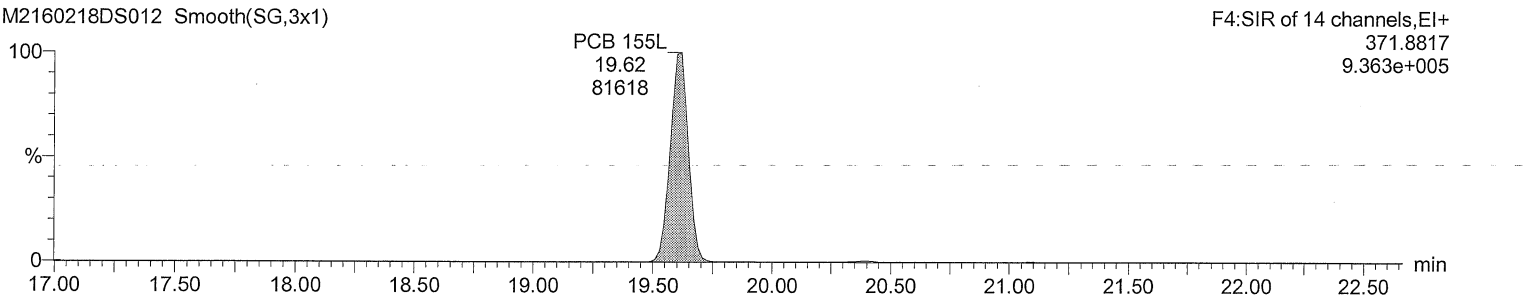

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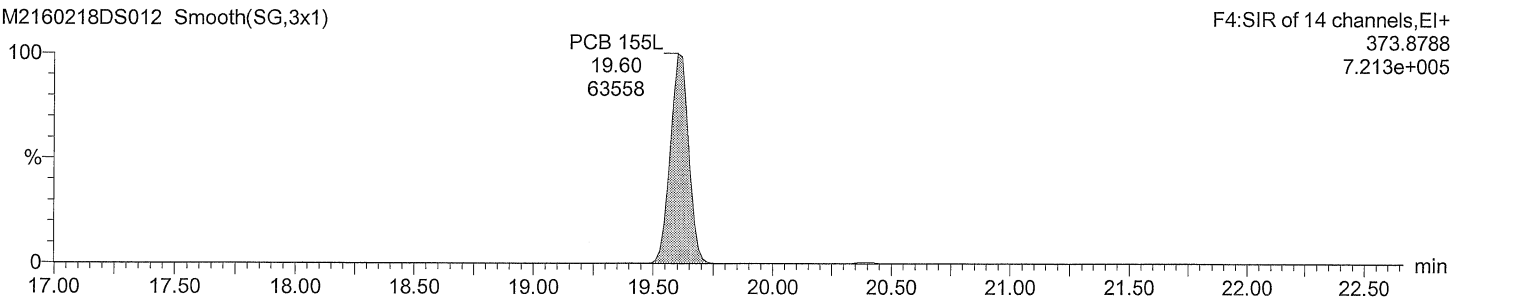

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Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total HxCB F5
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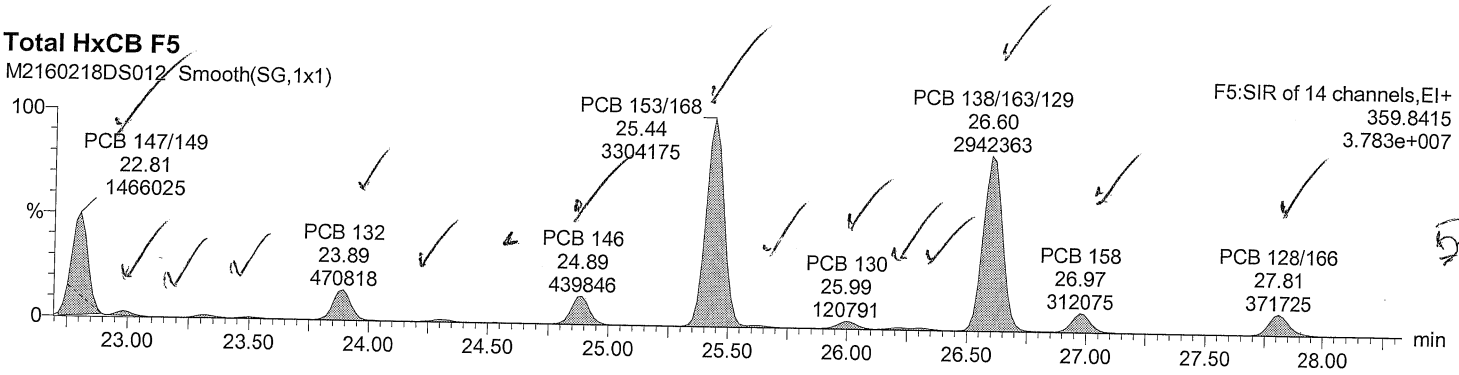

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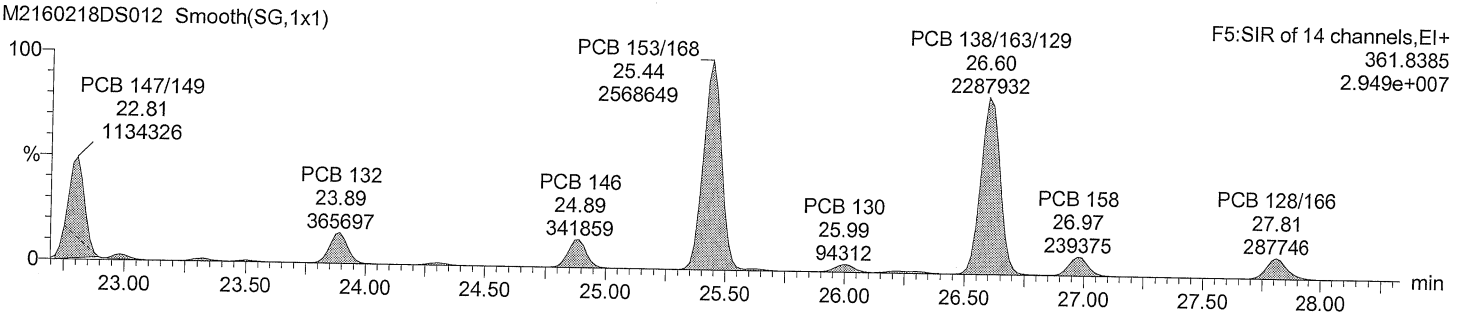

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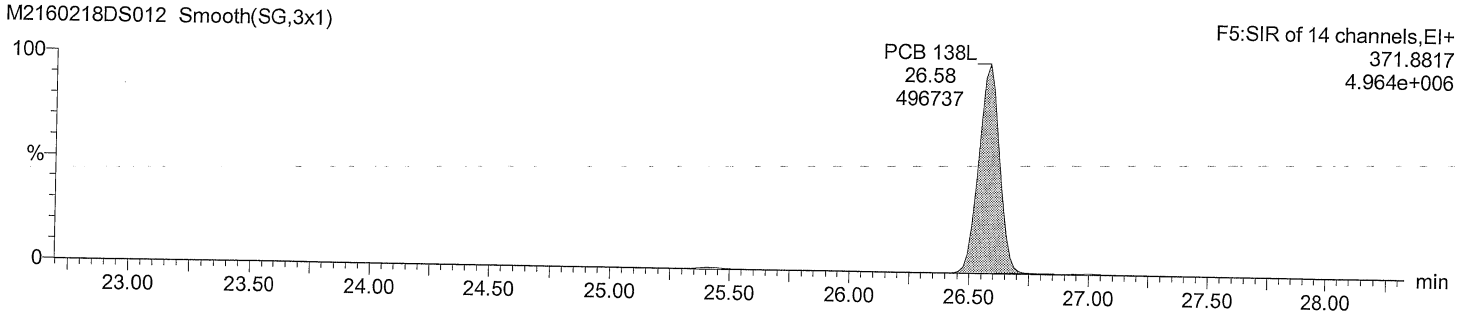

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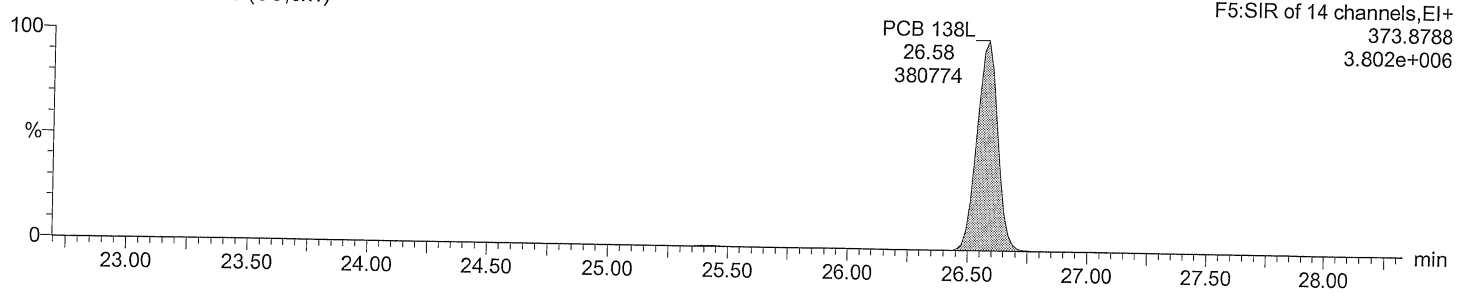

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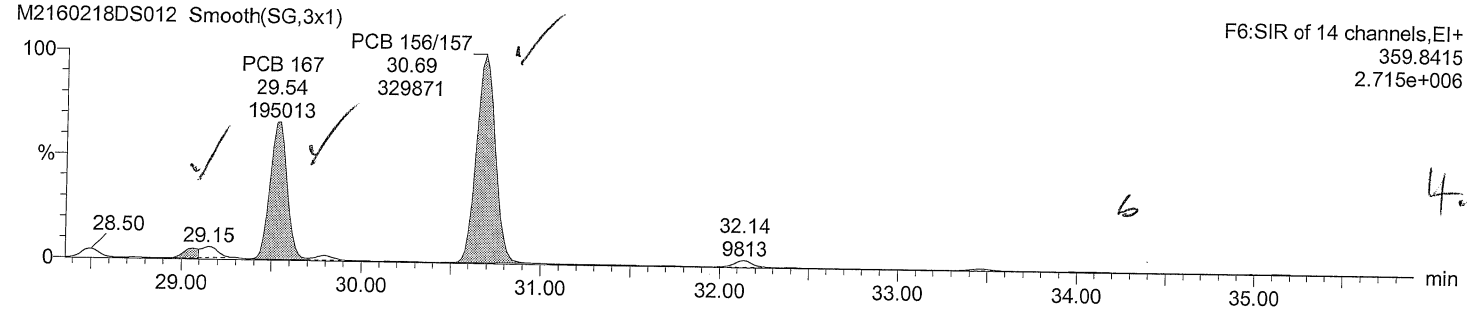
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total HxCB F6



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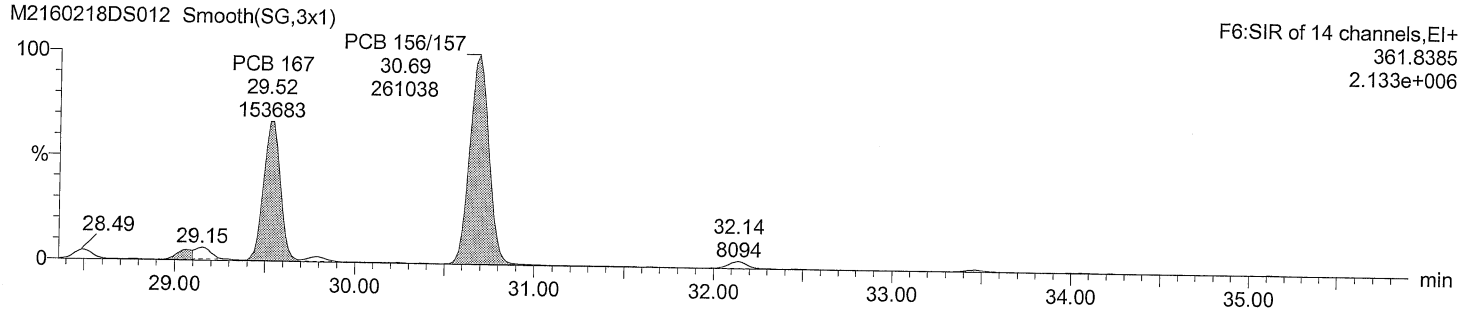

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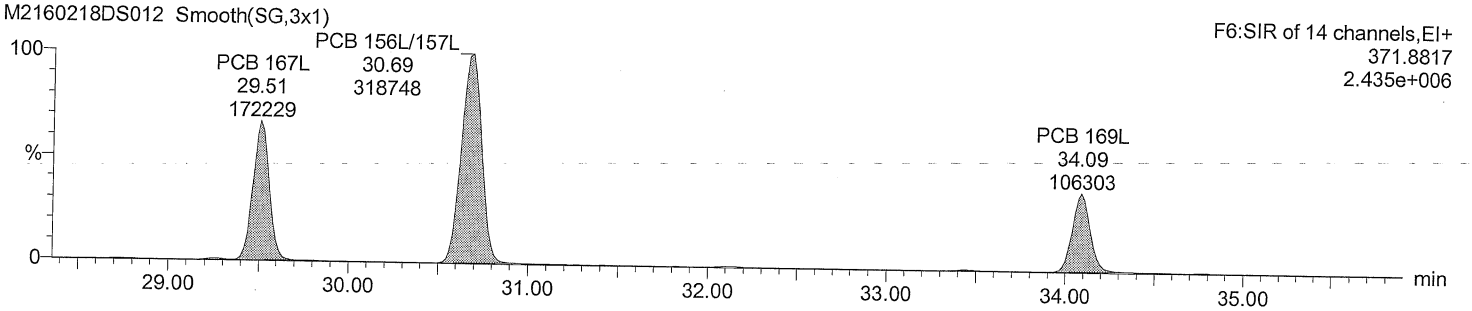

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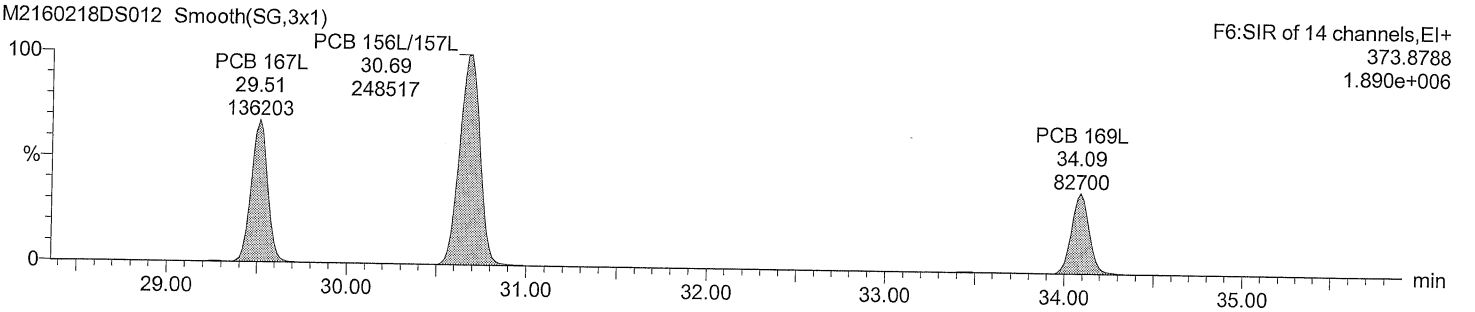

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Total HpCB F5
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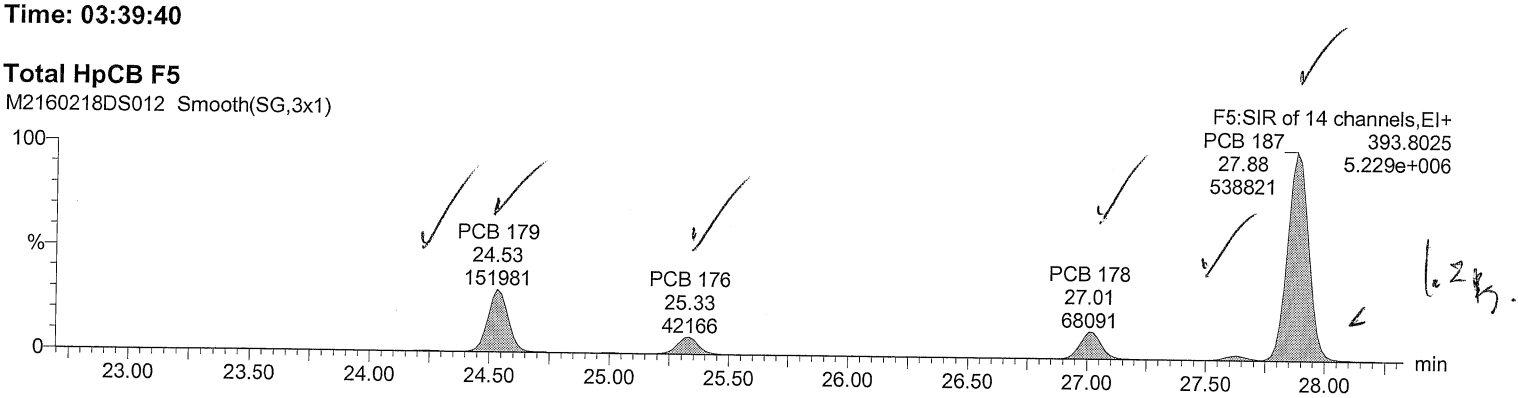

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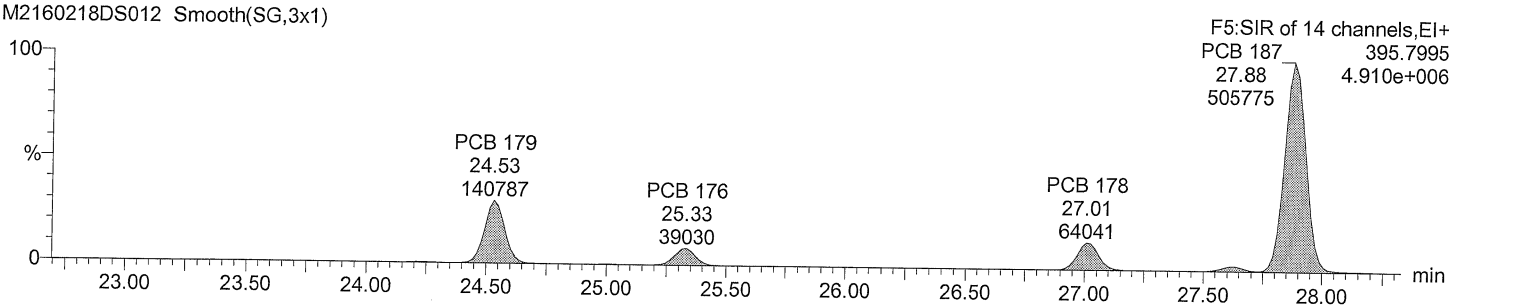

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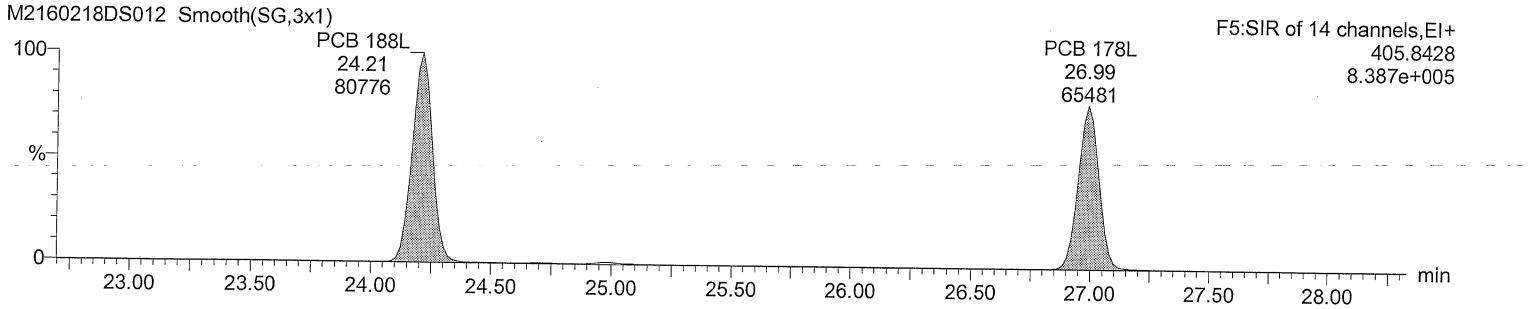

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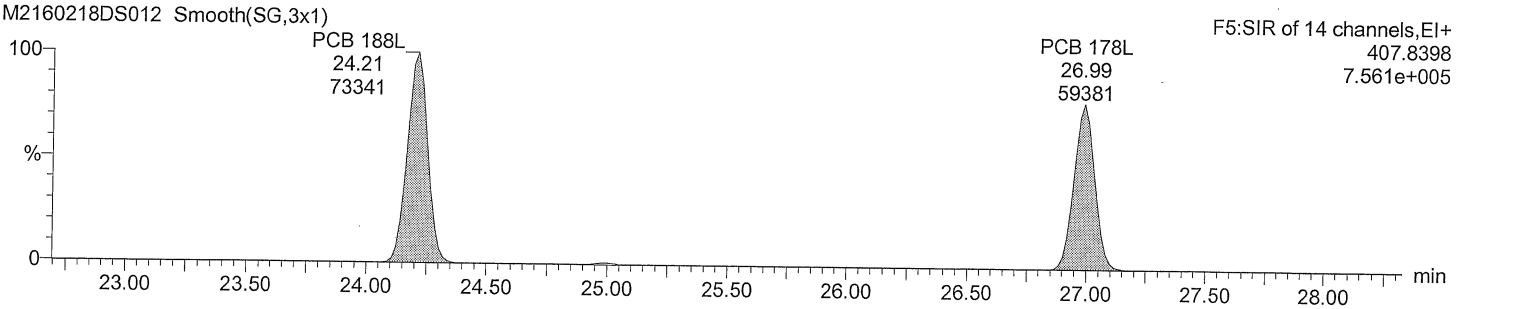

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ID: WS#4386412/4378609, Ti
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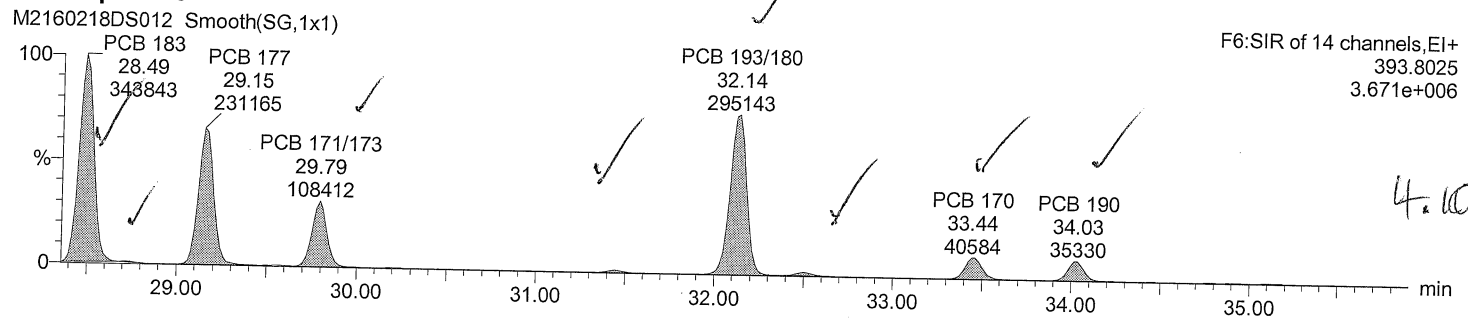
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total HpCB F6



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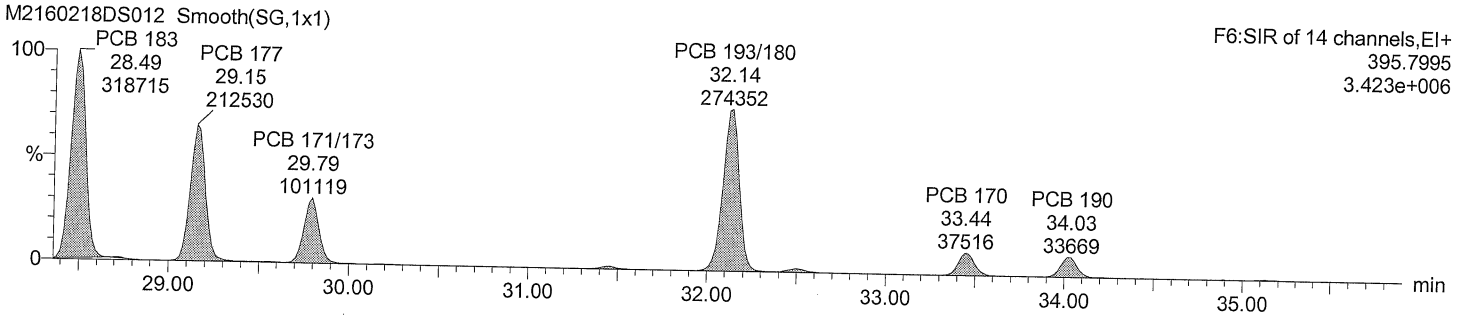

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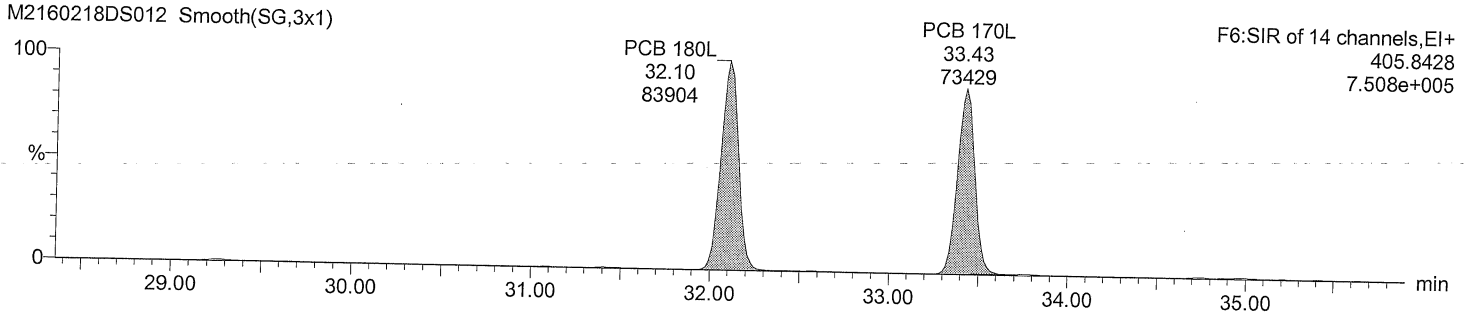

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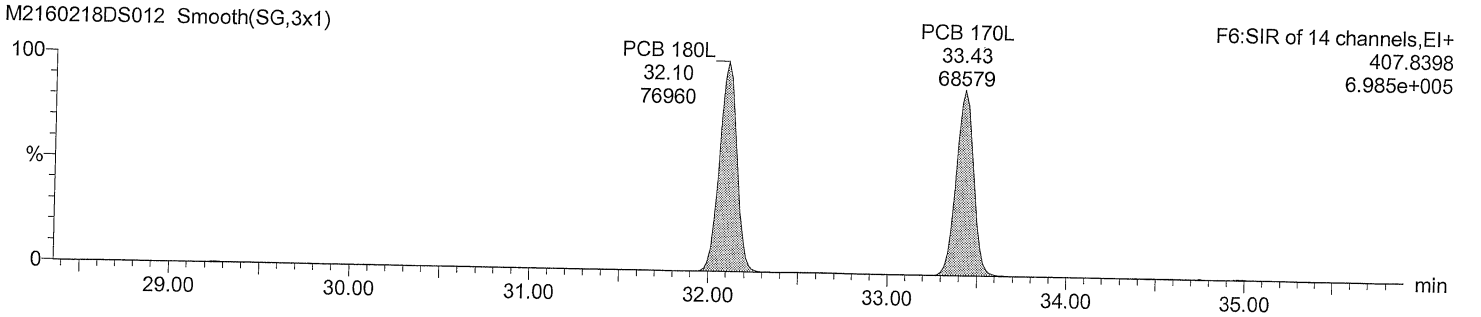

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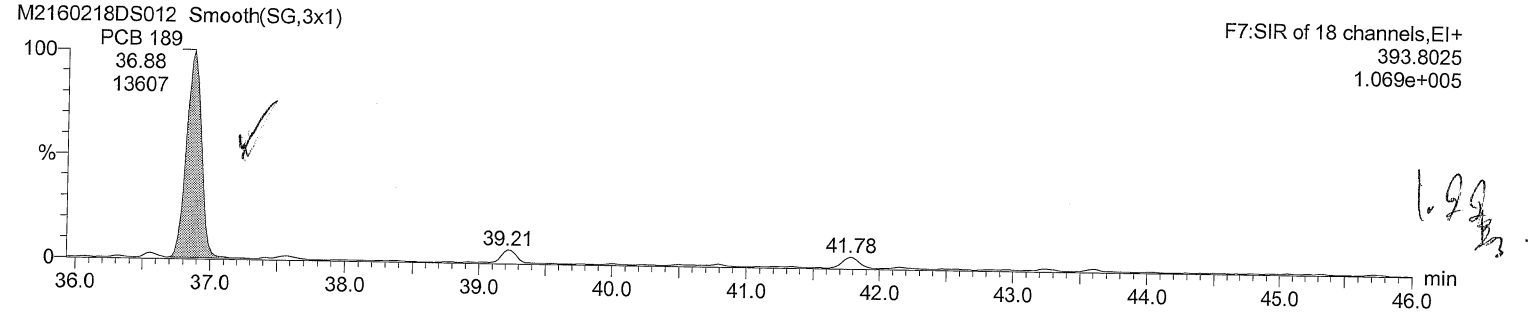
ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

Total HpCB F7



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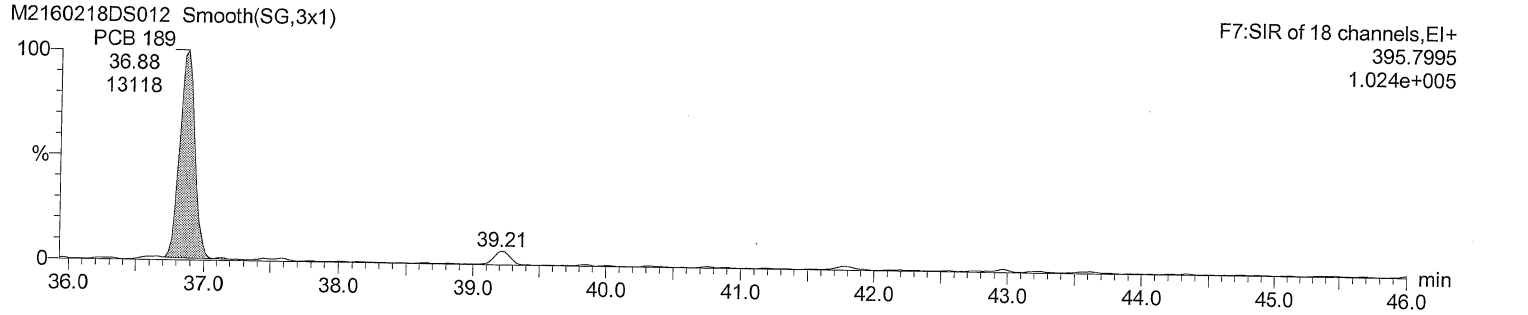

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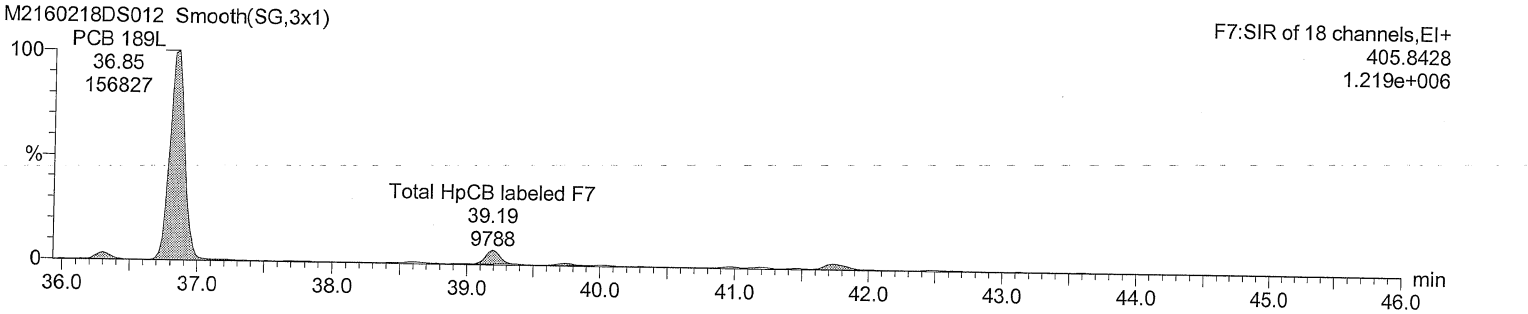

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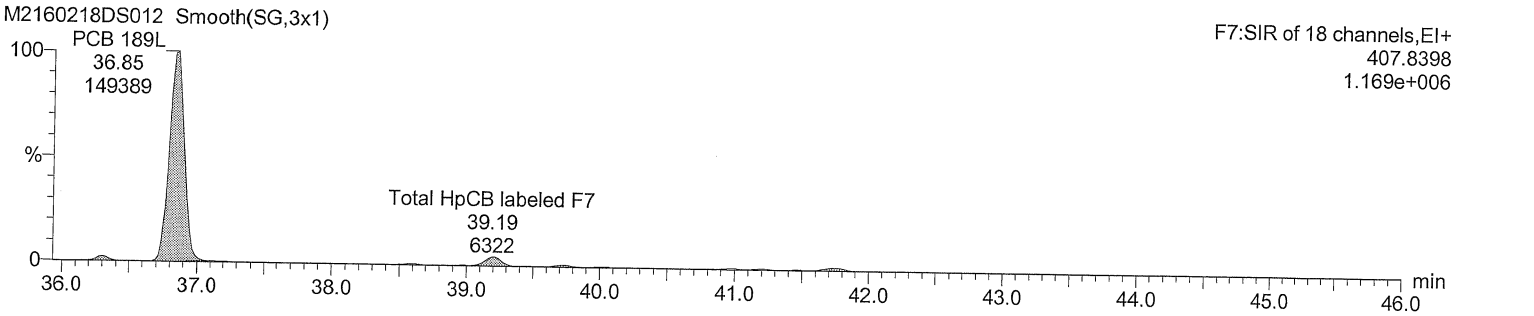

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ID: WS#4386412/4378609, Ti
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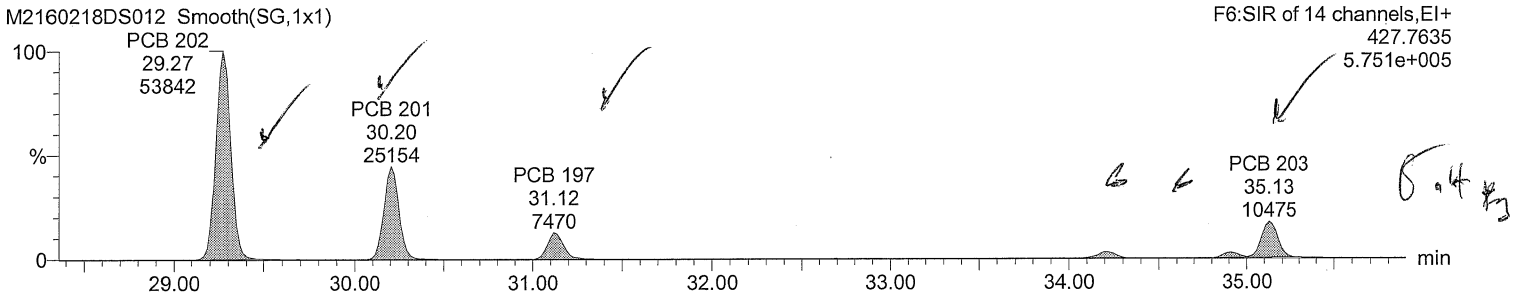
Total OcCB F6



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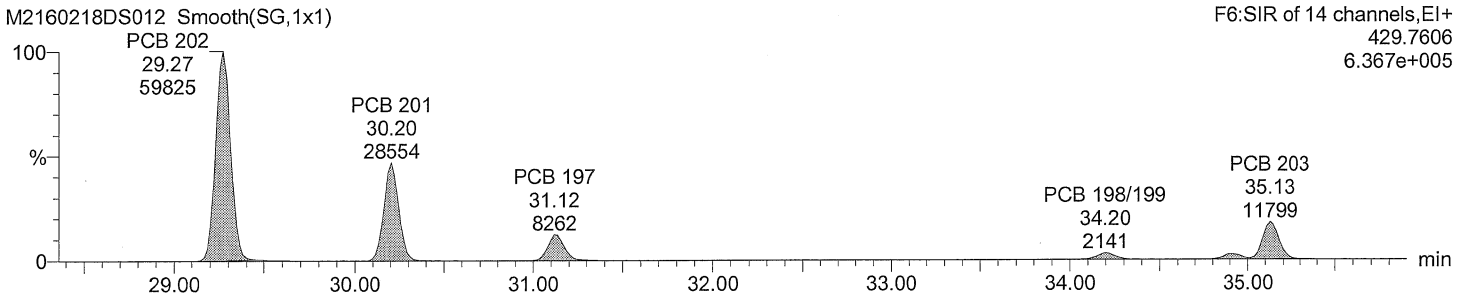

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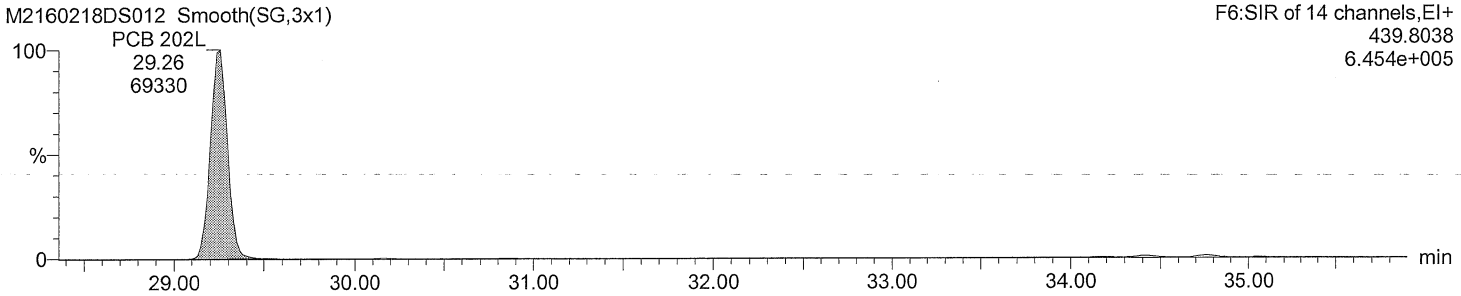

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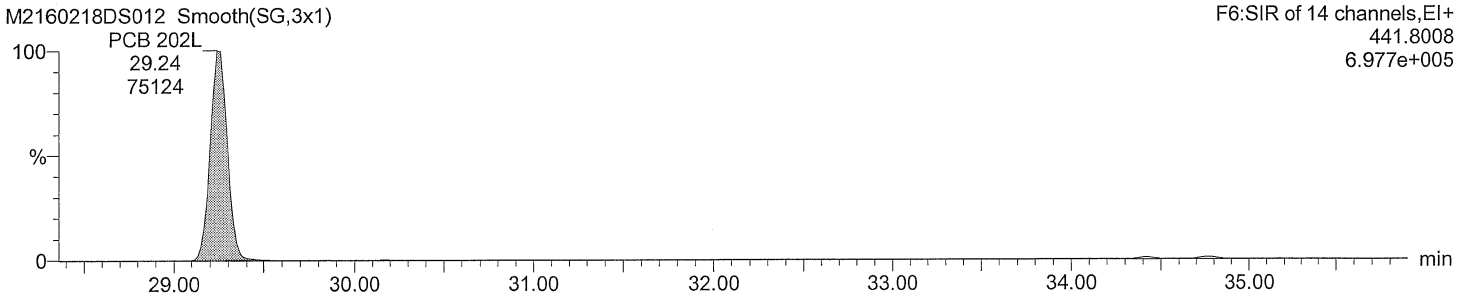

AutoSpec - Ultima 3

Acquired Date

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Vial: 12
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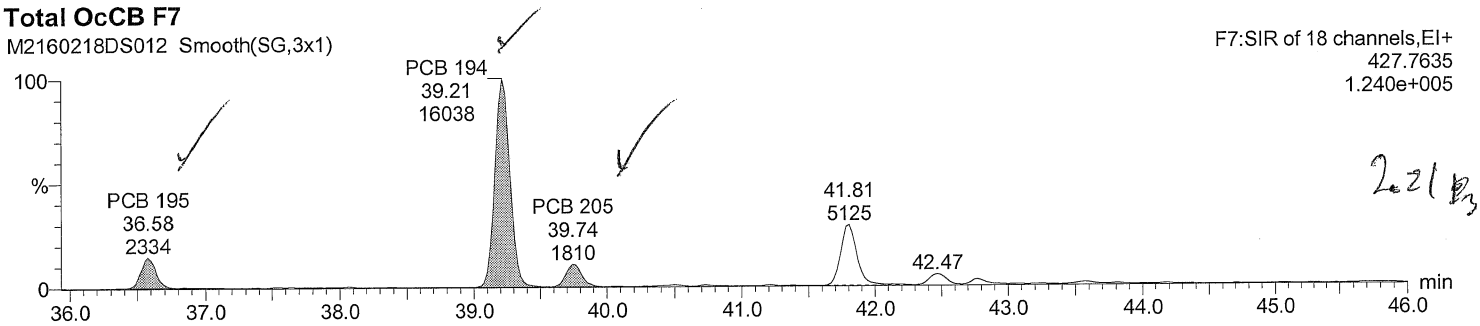
Total OcCB F7



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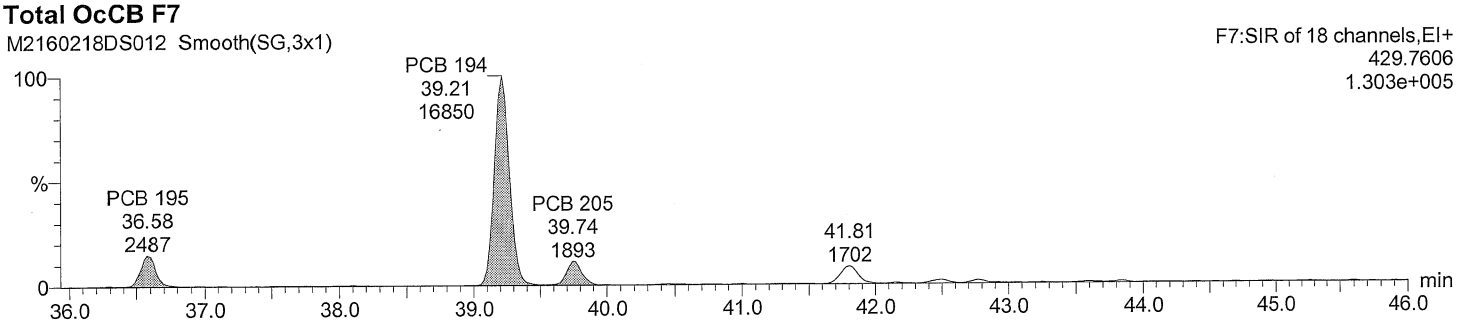

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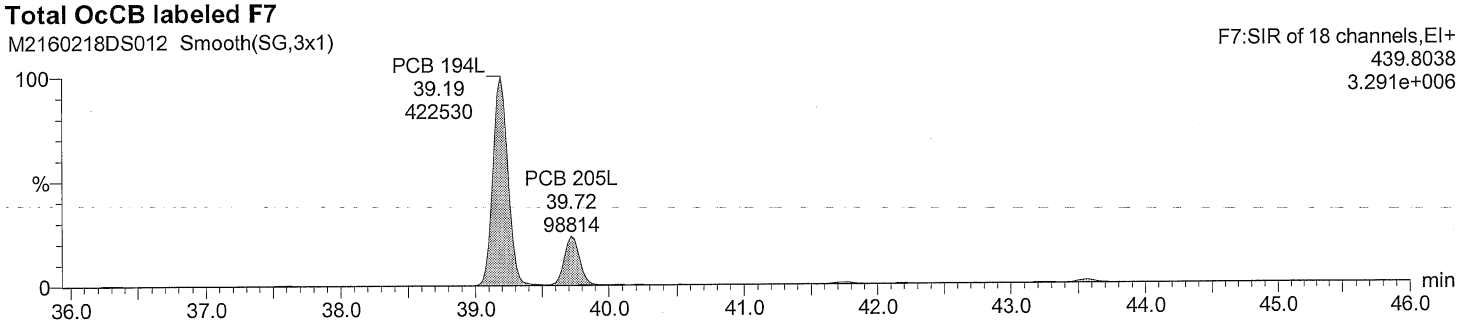

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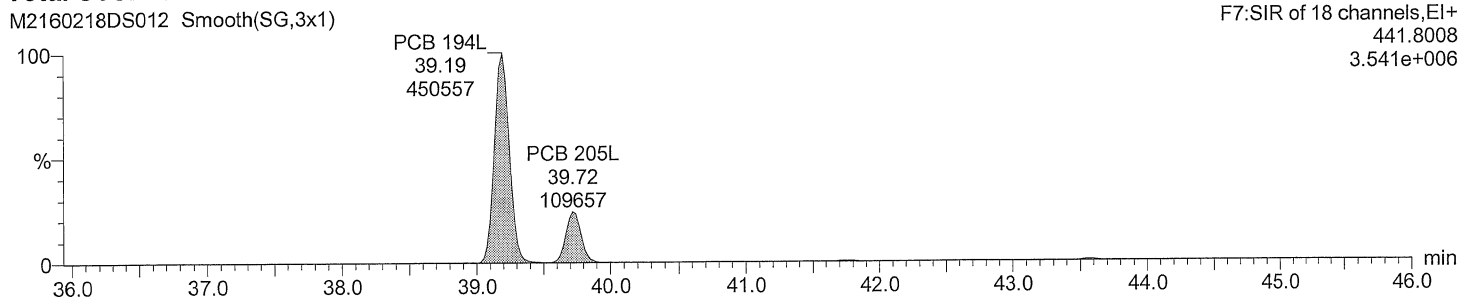

AutoSpec - Ultima 3

Acquired Date

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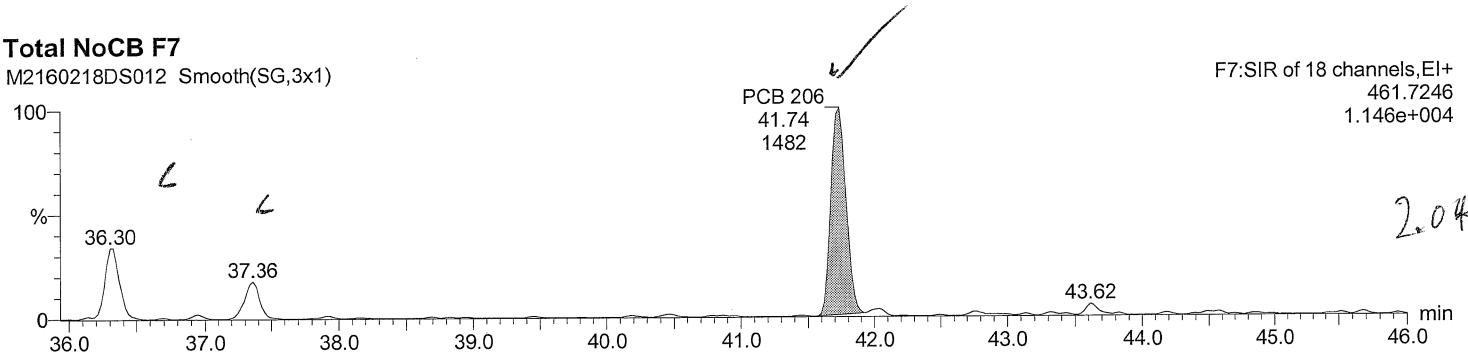

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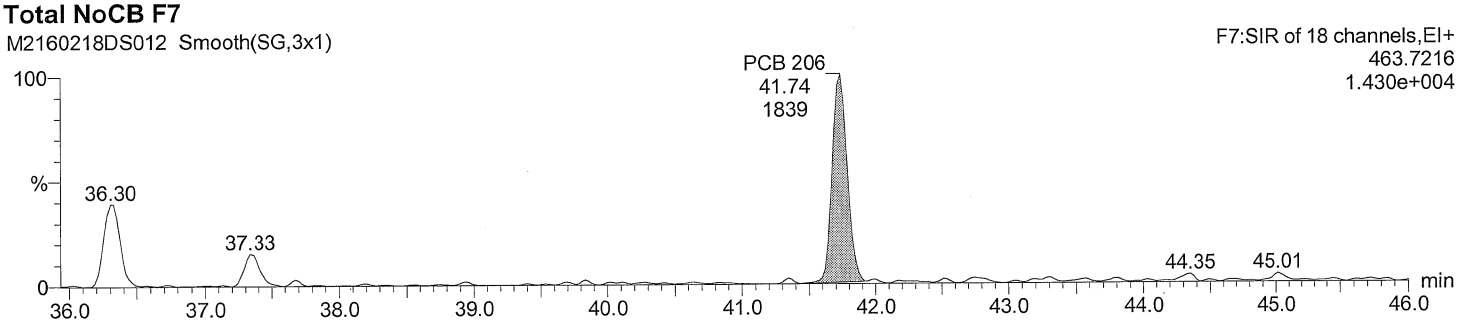

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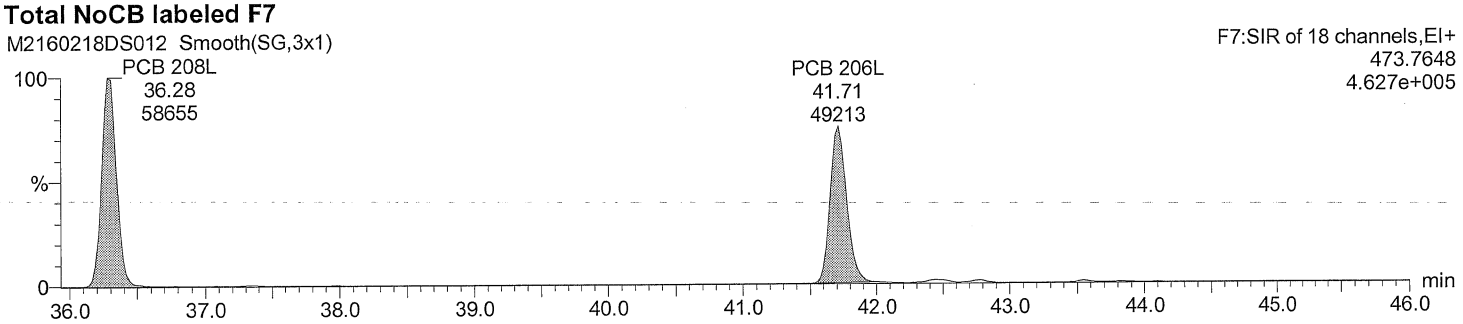

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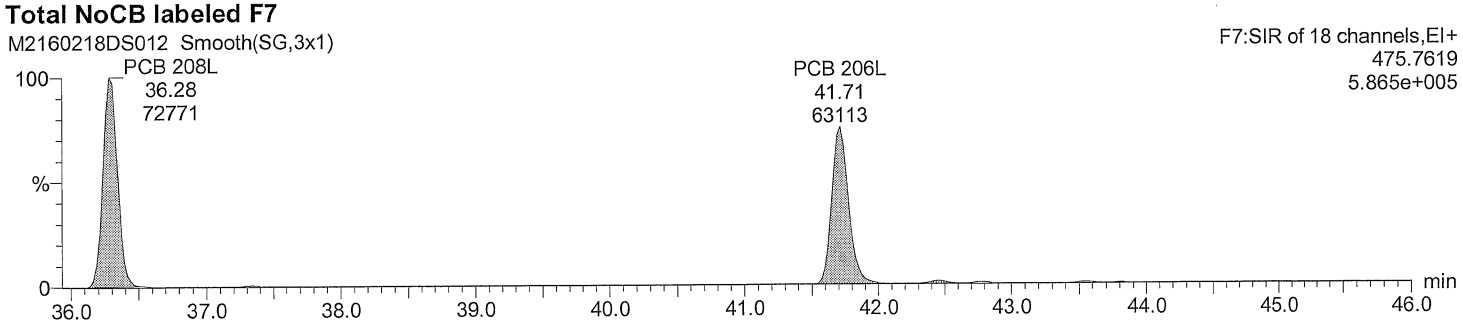

Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

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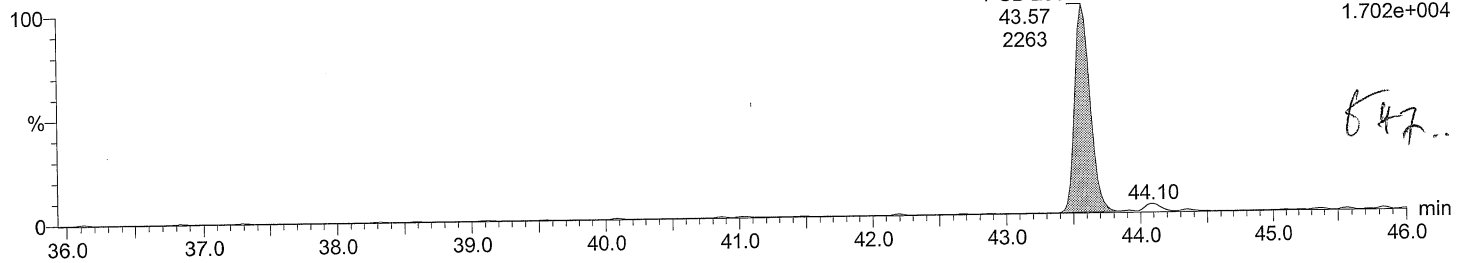
Total DeCB F7
M2160218DS012 Smooth(SG,3x1)



Total DeCB F7
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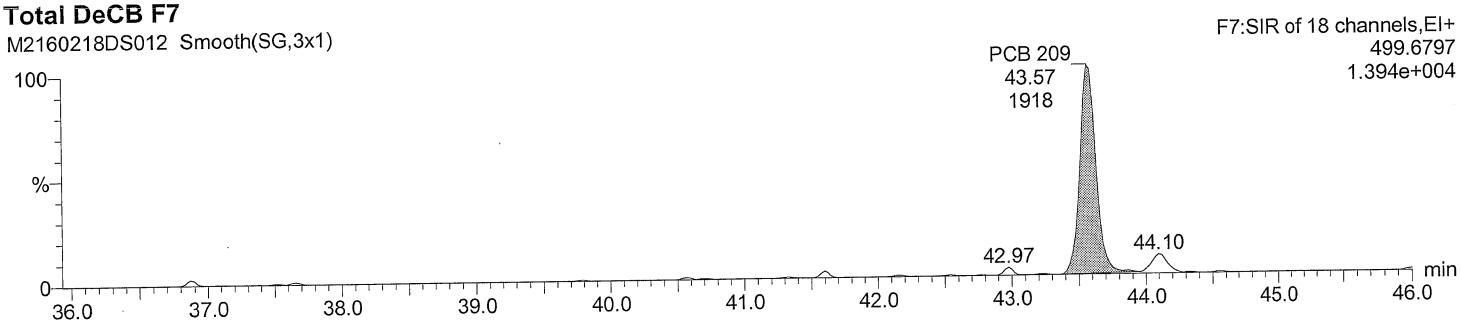

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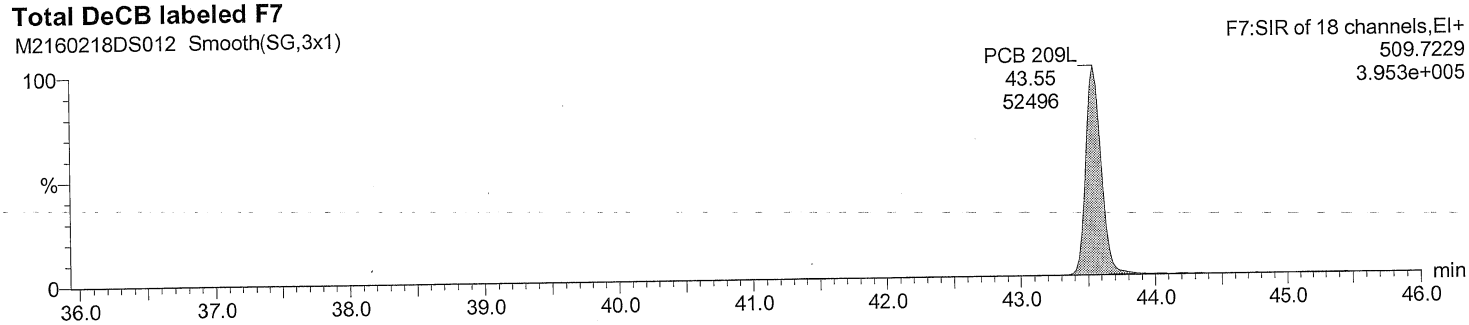

Total DeCB labeled F7
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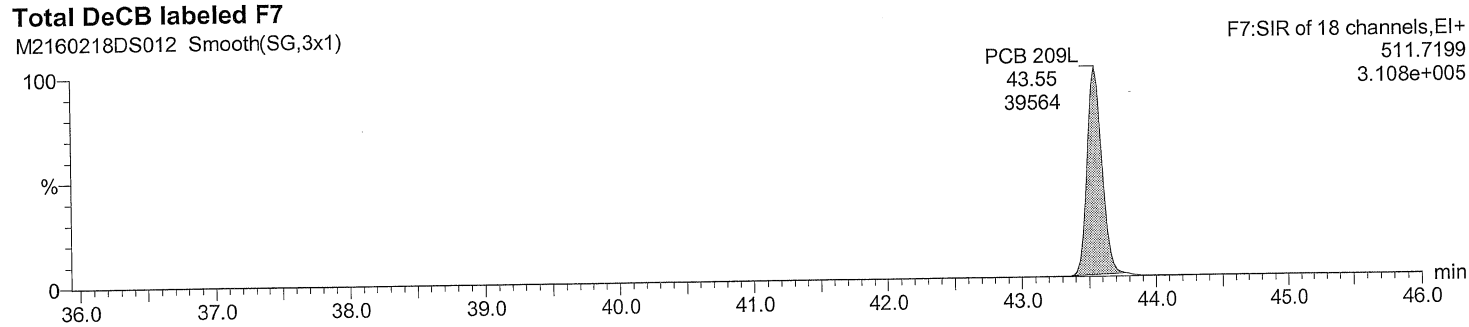

AutoSpec - Ultima 3

Acquired Date

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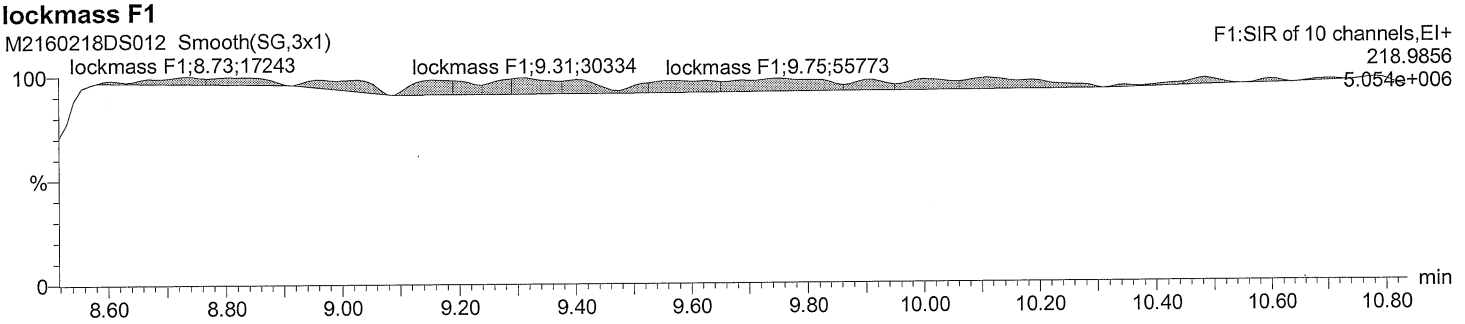
lockmass F1



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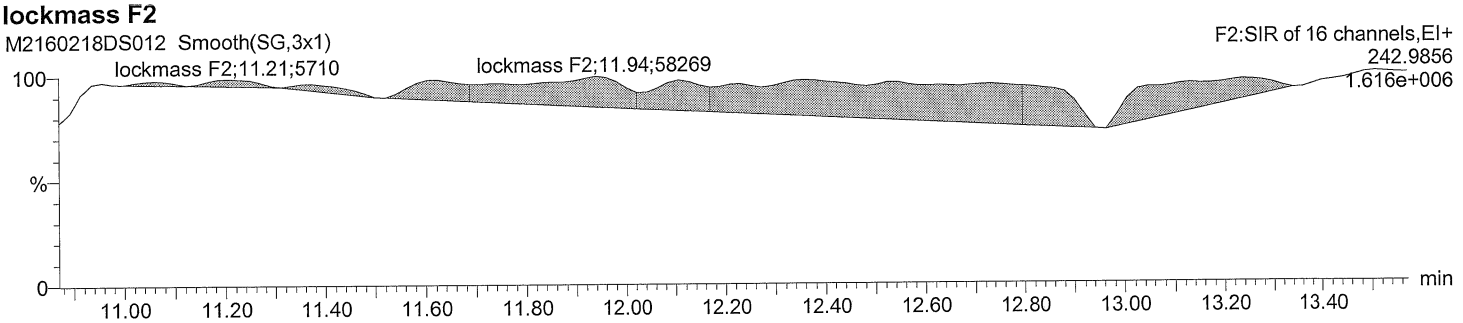

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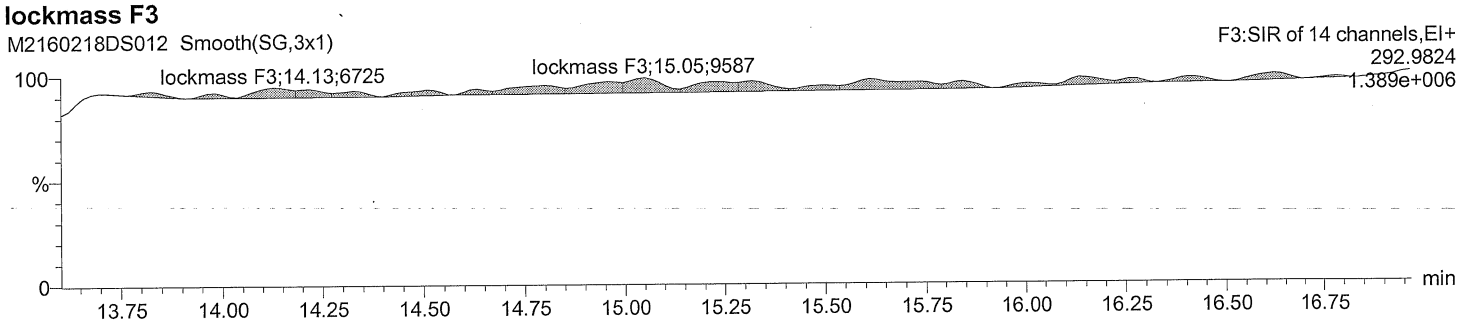
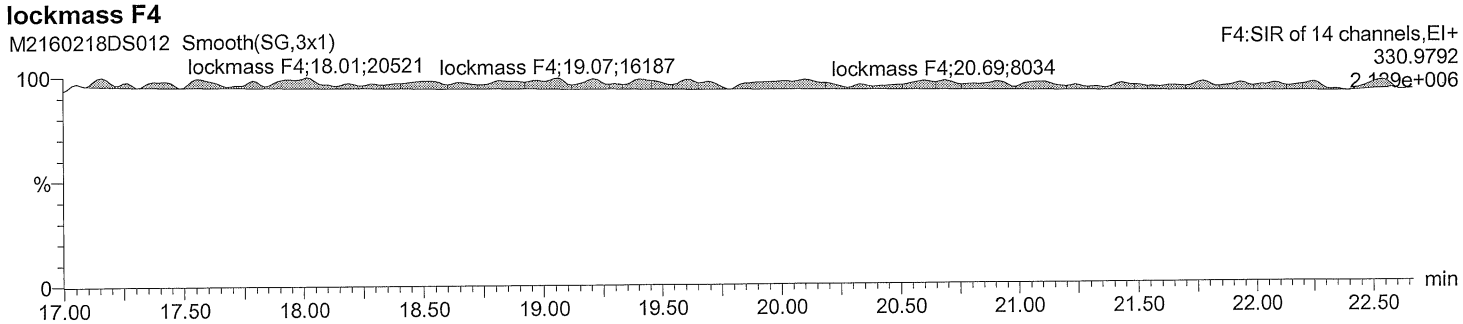


lockmass F4



AutoSpec - Ultima 3

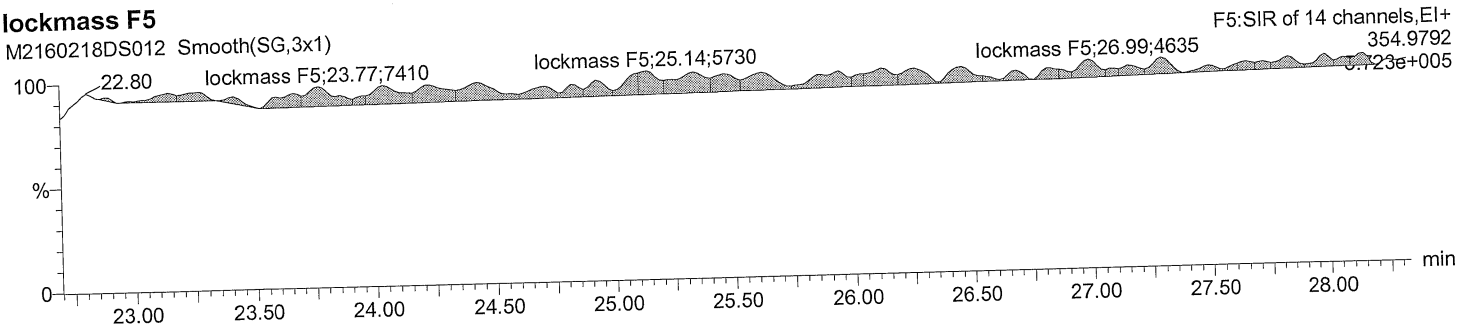
Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

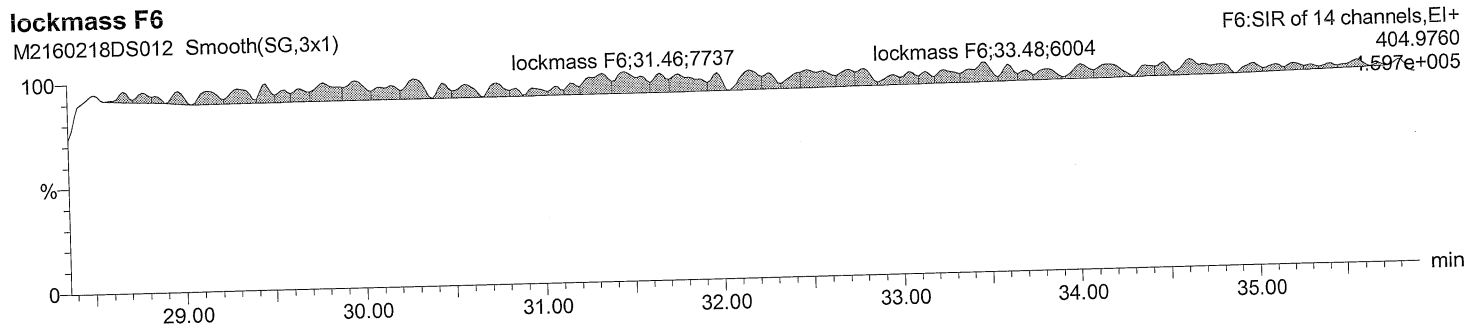
Last Altered: February 22, 2016 09:42:26 AM Eastern Standard Time
Printed: February 22, 2016 09:47:16 AM Eastern Standard Time

ID: WS#4386412/4378609, Ti
Description: REF MAT
Vial: 12
Date: 18-FEB-2016
Time: 03:39:40

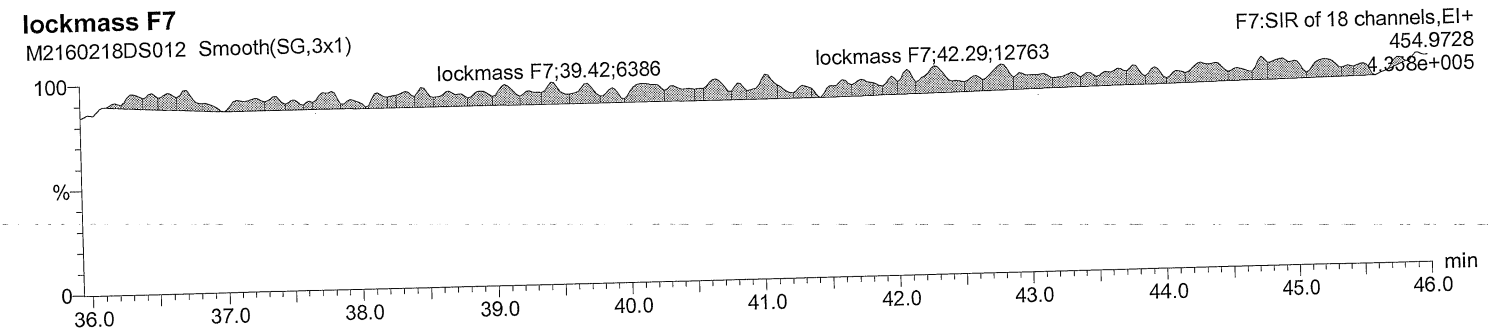
lockmass F5



lockmass F6



lockmass F7



Maxxam Analytics

Below
15.02.22
AM

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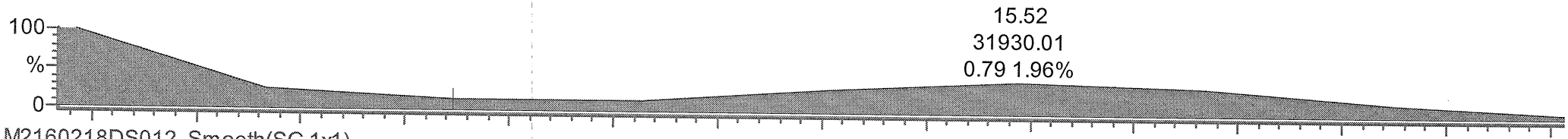
REF MAT WS#4386412/4378609, Ti



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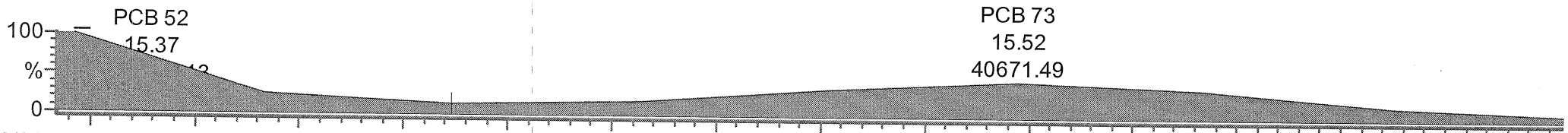

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REF MAT WS#4386412/4378609, Ti

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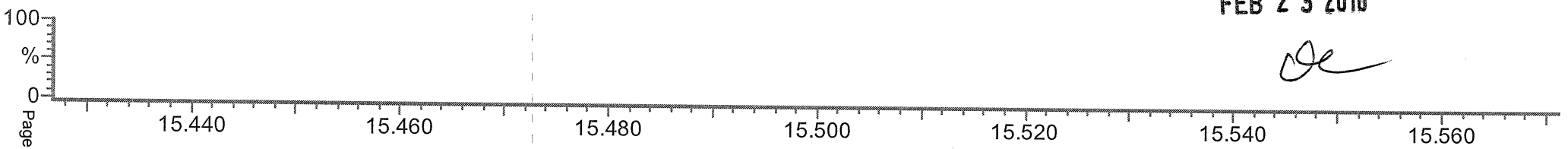
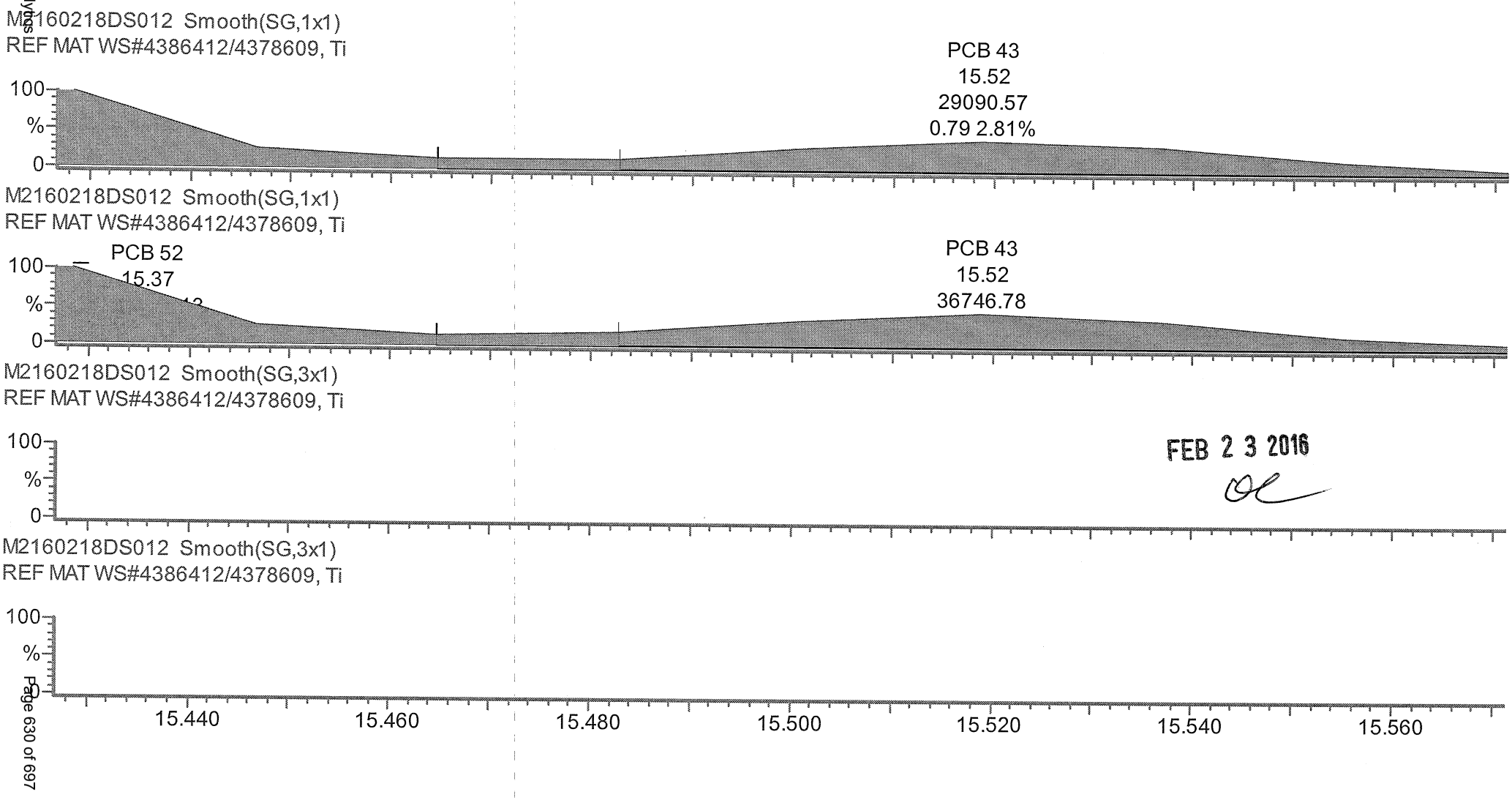
REF MAT WS#4386412/4378609, Ti

FEB 2 3 2016



M2 **16/02/22 : AH**



FEB 2 3 2016

Maxxam Analytics

Beaton
16-02-22
AA

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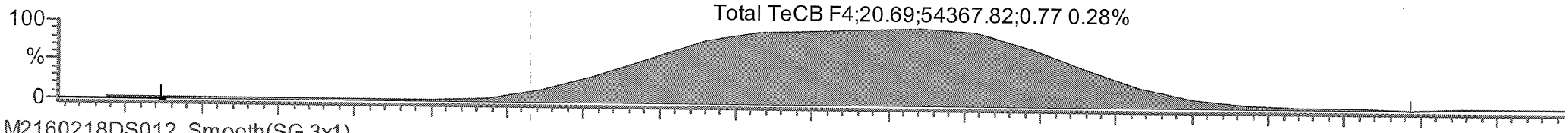
REF MAT WS#4386412/4378609, Ti



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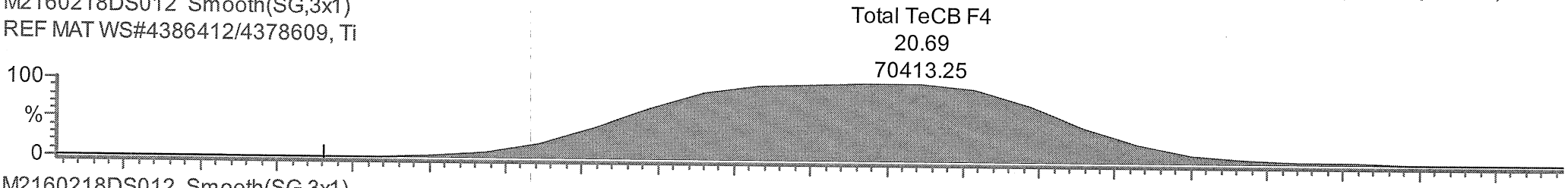
REF MAT WS#4386412/4378609, Ti



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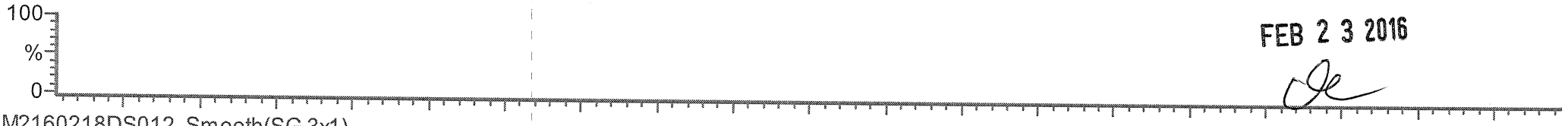

FEB 2 3 2016

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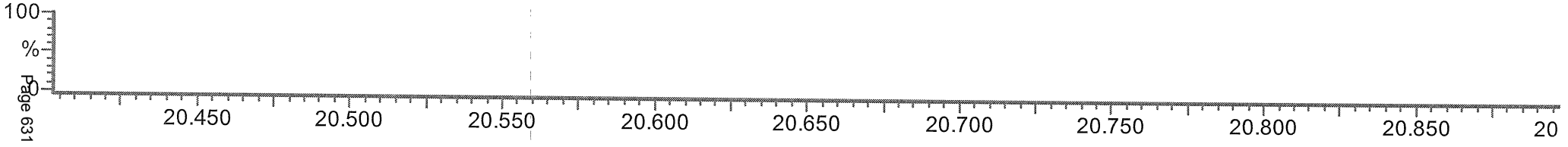
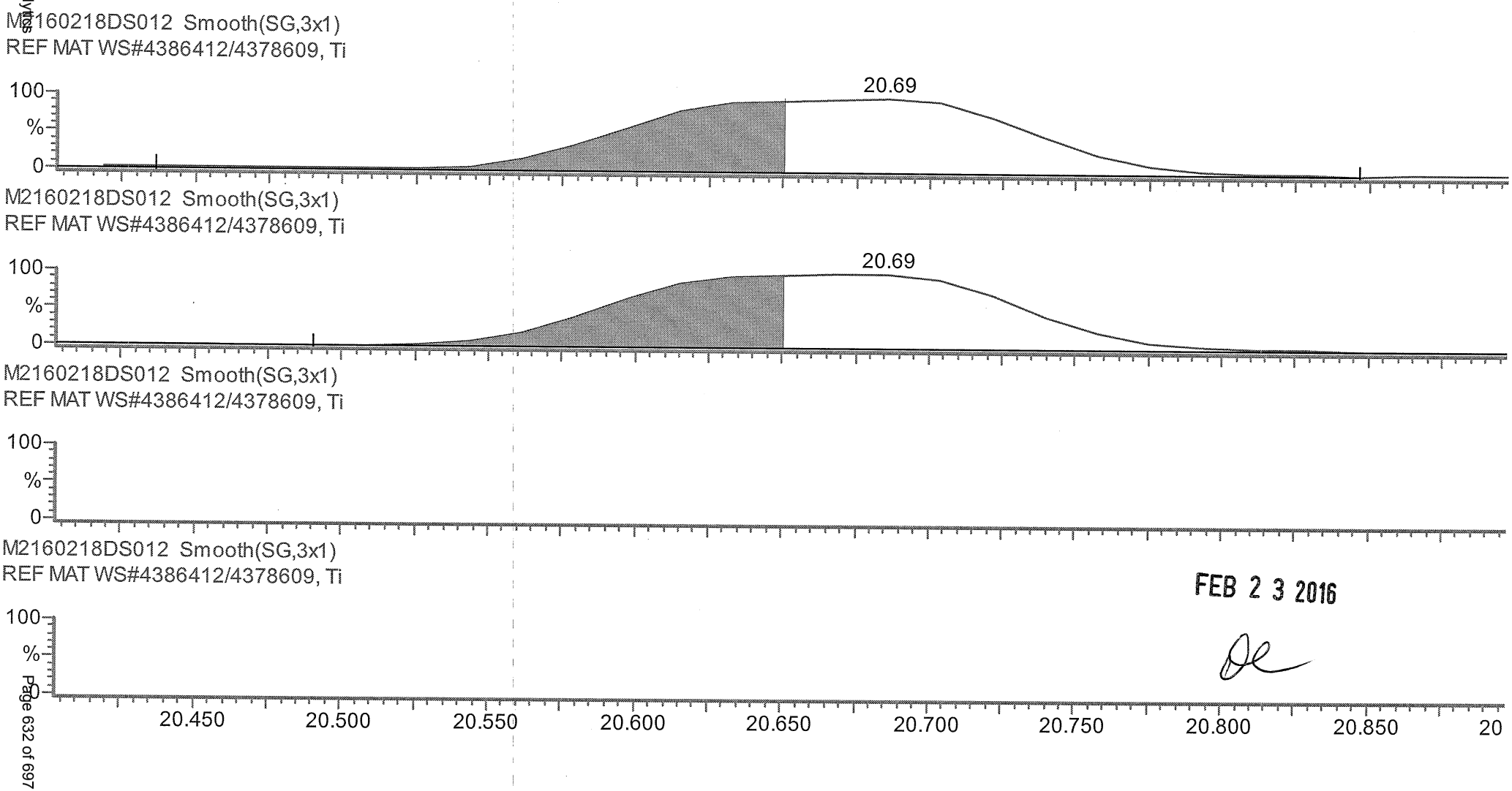
REF MAT WS#4386412/4378609, Ti



Maxxam Analytics

M3 16/02/22 : AH



FEB 2 3 2016

Before
15.02.22
A#...

Maxxam Analytics

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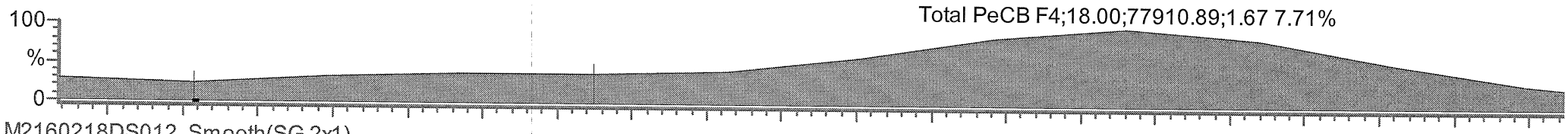
REF MAT WS#4386412/4378609, Ti



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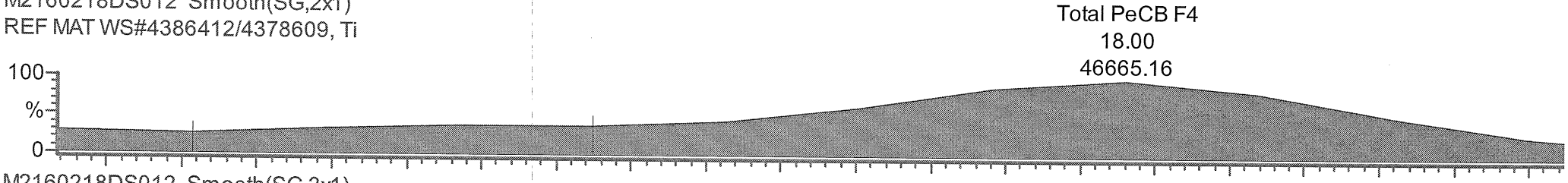
REF MAT WS#4386412/4378609, Ti



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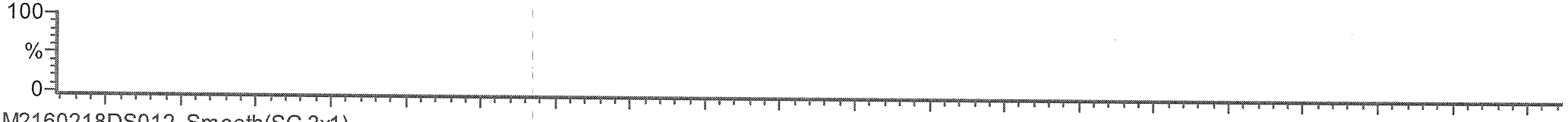

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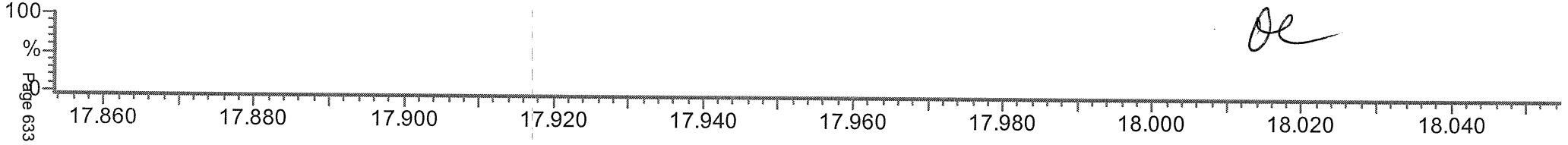
FEB 2 3 2016



Maxxam Analytics

M3 **16/02/22 : AH**

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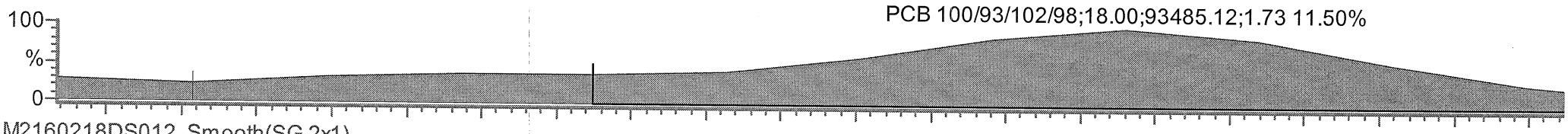

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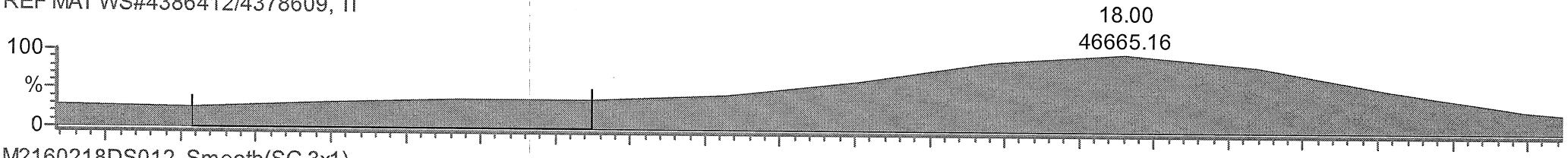

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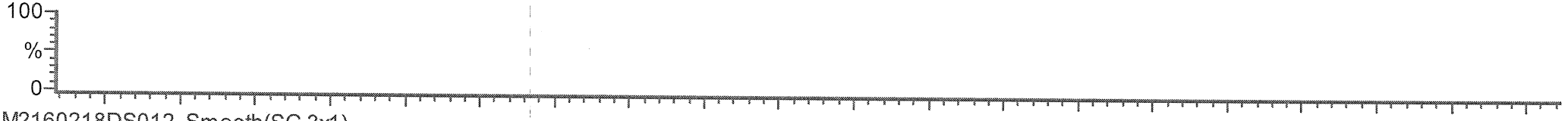

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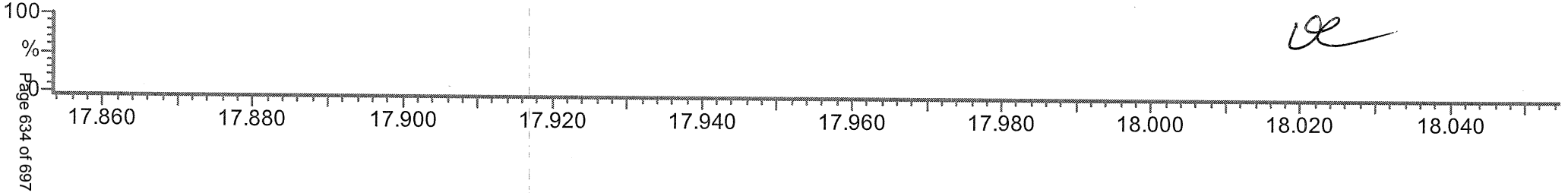
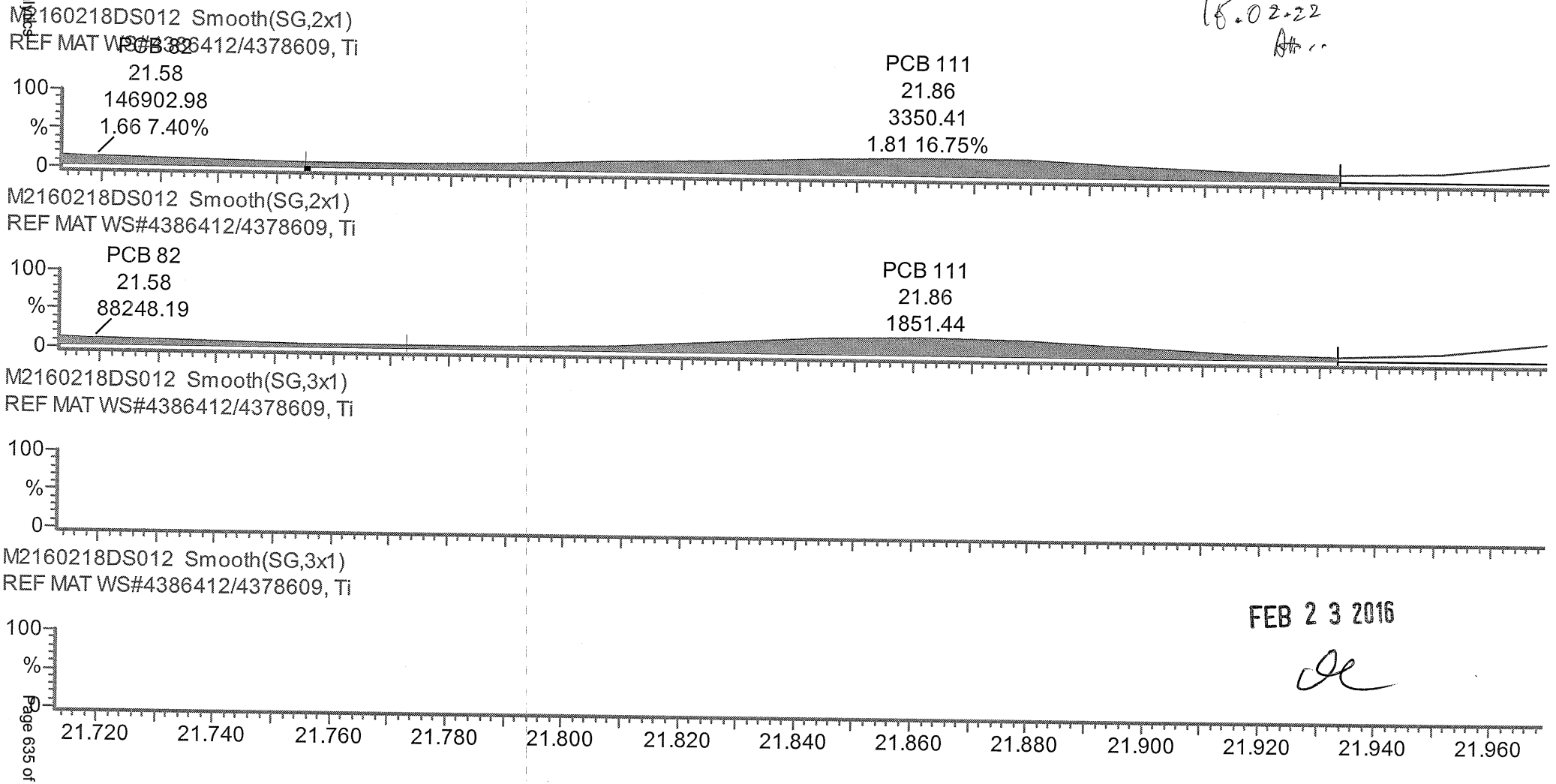
REF MAT WS#4386412/4378609, Ti

FEB 2 3 2016

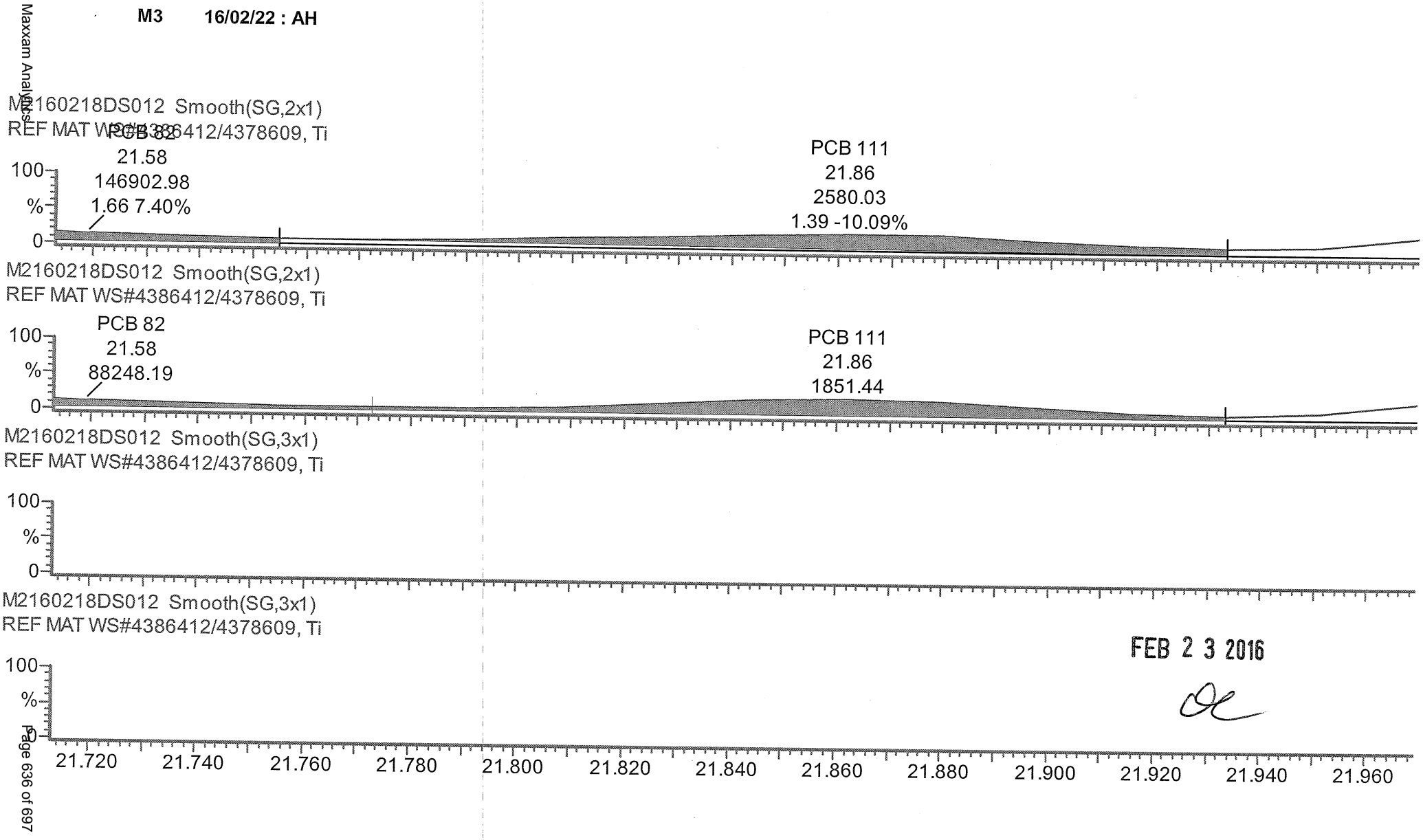


Before
15.02.22
A...



FEB 2 3 2016

M3 16/02/22 : AH



FEB 2 3 2016

Maxxam Analytics

Below
15.02.22
AA..

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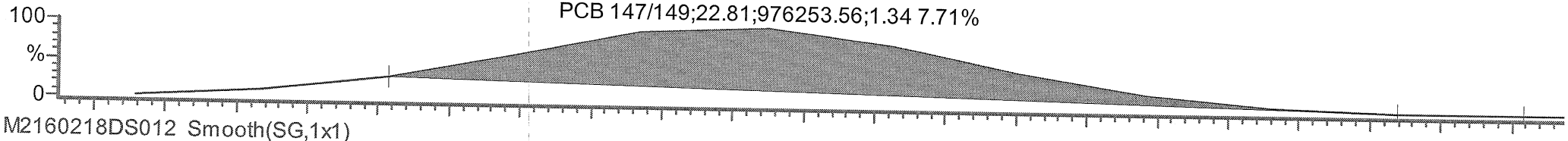

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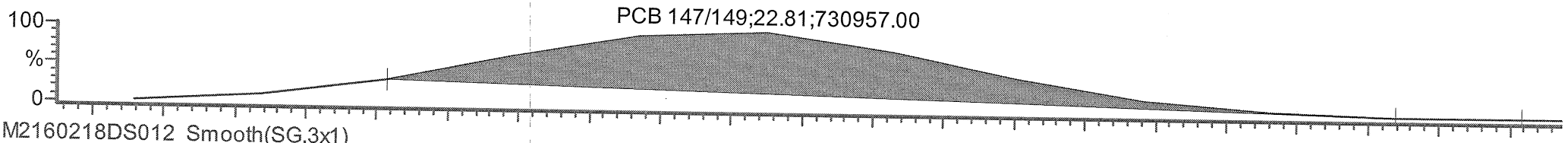

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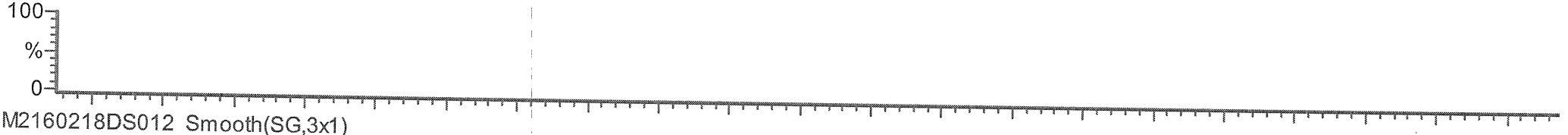

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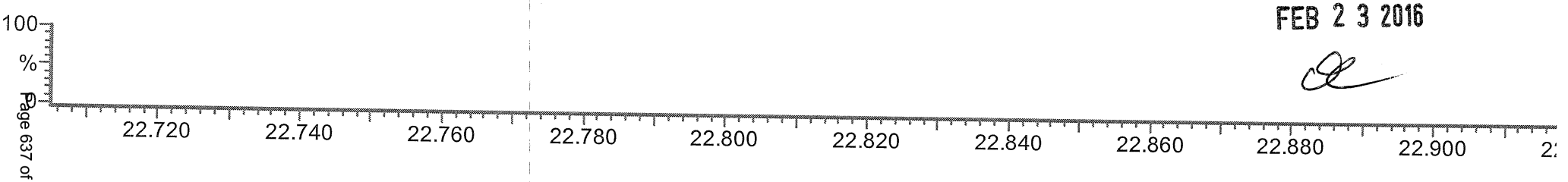

FEB 2 3 2016

M3 16/02/22 : AH

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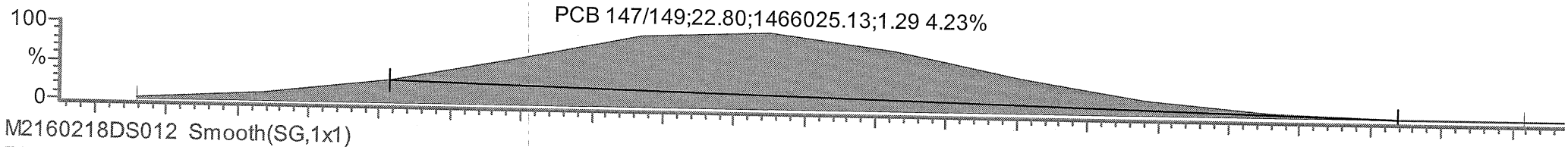

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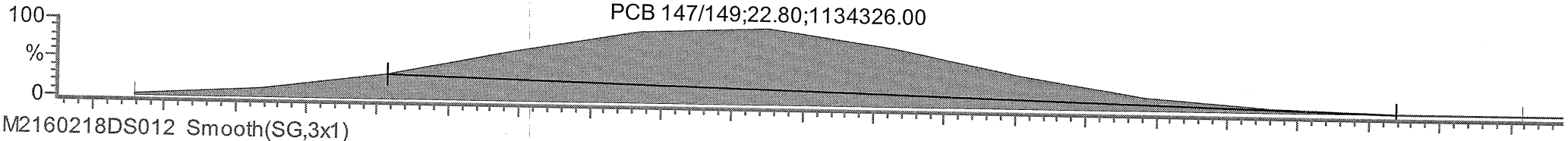

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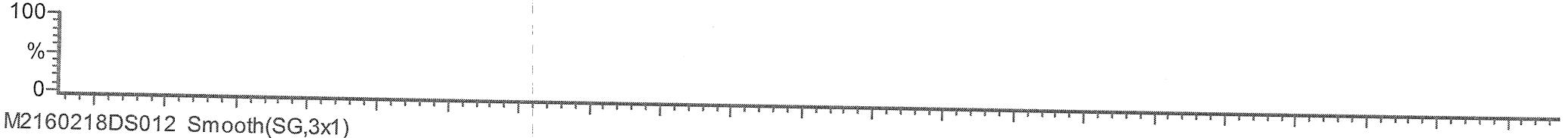

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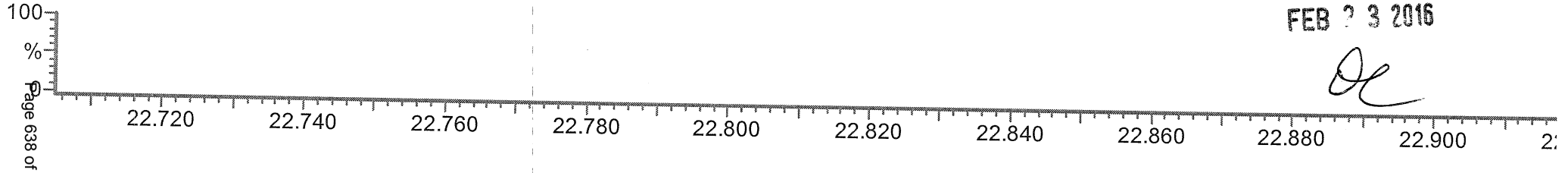
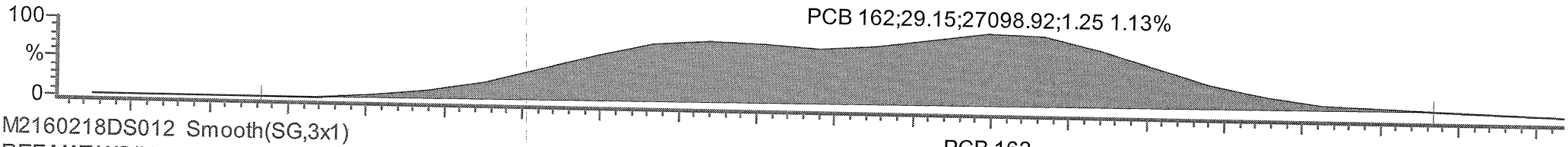


FEB 2 3 2016

Before
16.02.22
AA...

Maxxam Analytics

M2160218DS012 Smooth(SG,3x1)
REF MAT WS#4386412/4378609, Ti



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PCB 162
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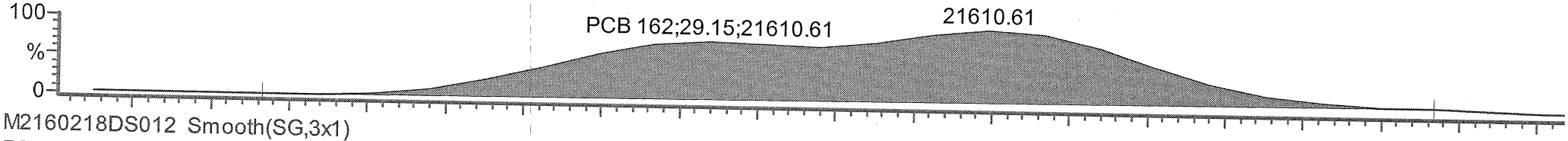
21610.61



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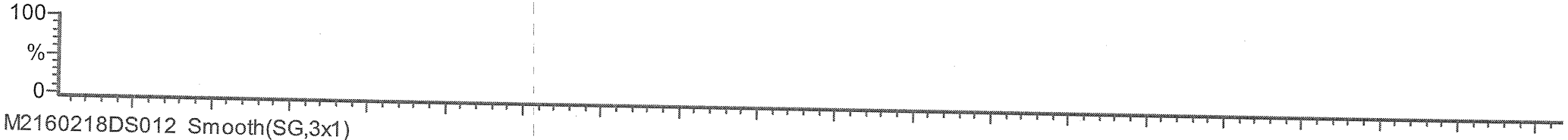

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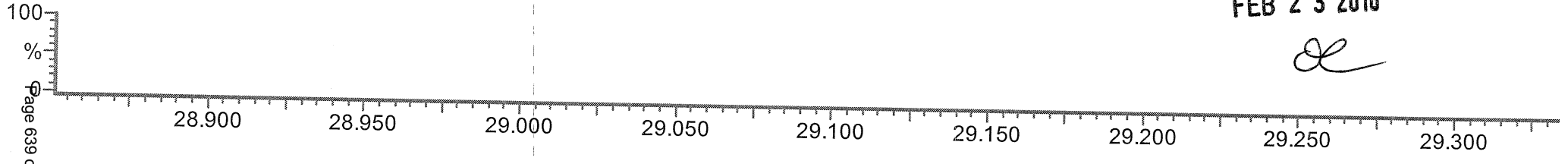
FEB 2 3 2016



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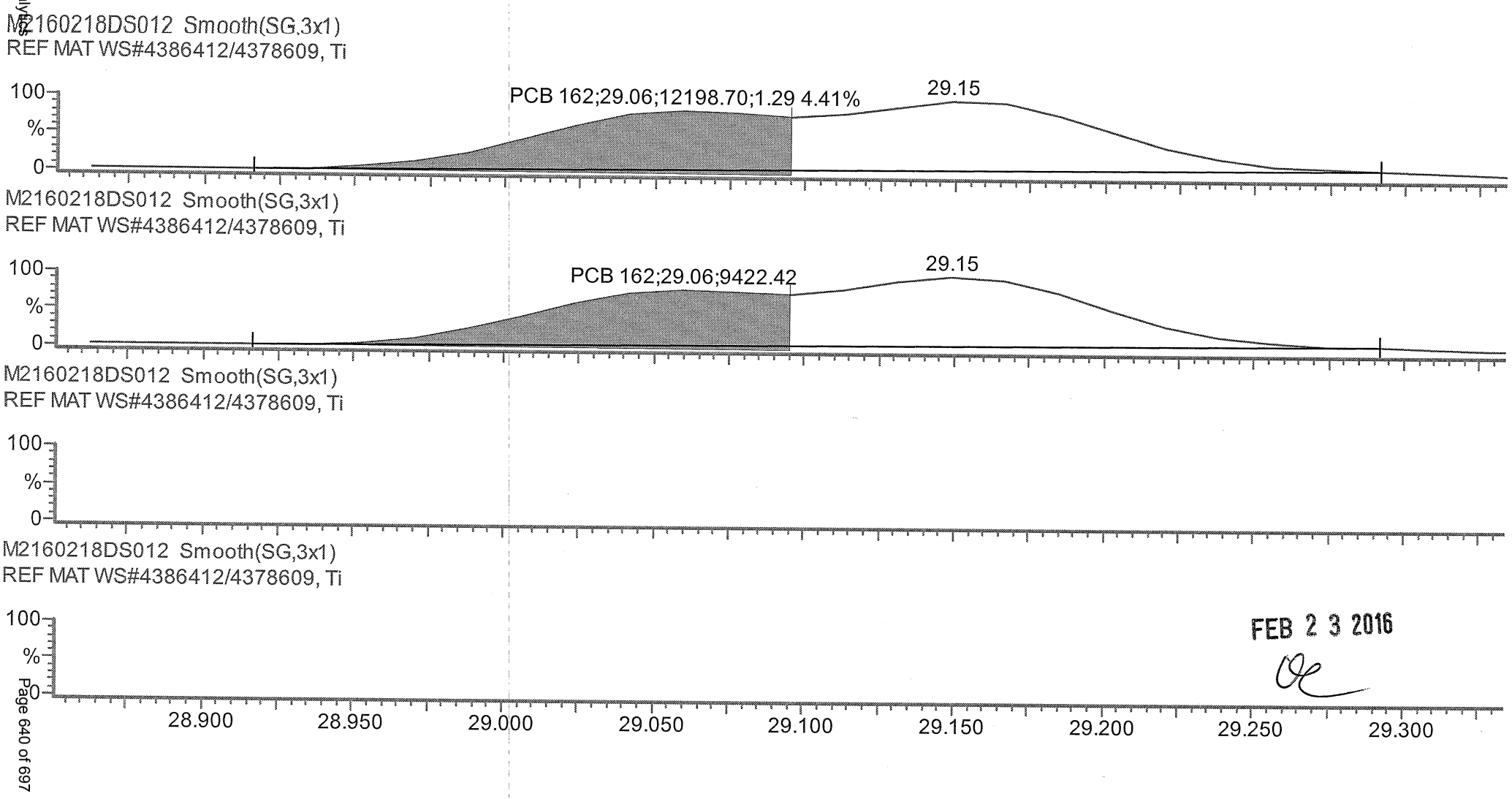


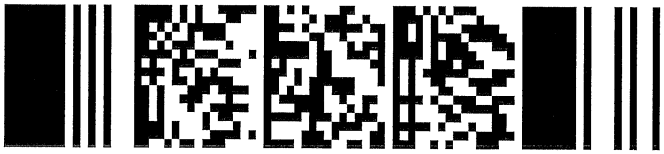
FEB 2 3 2016

M2160219 - PCB

File Name	File Text	Sample ID	Job	Wt/Vol
M2160211AS002	CS1_PCB 150417CXU	---	---	1.000000
M2160211AS003	CS2_PCB 150417CXU	---	---	1.000000
M2160211AS004	CS3_PCB 150417CXU	---	---	1.000000
M2160211AS005	CS4_PCB 150417CXU	---	---	1.000000
M2160211AS006	CS5_PCB 150417CXU	---	---	1.000000
M2160211AS007	SOLVENT	---	---	1.000000
M2160211AS008	CIL CS3 PCB PR-22535L	---	---	1.000000
M2160211AS009	209MIX_PCB 150822CXU	---	---	0.000000
---	---	---	---	0.000000
---	---	---	---	1.000000
M2160219AS001	CS3_PCB 150417CXU	---	---	1.000000
M2160219BS001	209MIX_PCB 150822CXU	---	---	1.000000
M2160219BS002	SOLVENT	---	---	1.000000
M2160219BS003	BRP512-01R	Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti	---	10.634400
M2160219BS004	BRP513-01R	Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti	---	10.133900
M2160219BS005	BRP572-01R	Anchor QEA, PG-T0-5-MUS-COC-151030, Ti	---	10.091400
M2160219BS006	BTX904-01R	Apex AMCCO-SB095-0-1, S	---	10.012900
M2160219BS007	SOLVENT	---	---	1.000000
M2160219BS008	BTZ870-01R	MAXXAM OB0623 \ 10-BH16-1 S-3, S	---	9.923900
M2160219BS009	BTZ874-01R	MAXXAM OB0629 \ 10-BH16-6 S-2, S	---	9.769200
M2160219BS010	BTZ875-01R	MAXXAM OB0630 \ 10-BH16-6 S-24, S	---	9.500500
M2160219BS011	BTZ876-01R	MAXXAM OB0632 \ TH100 S-1, S	---	10.003400
M2160219BS012	BUA896-01R	MAXXAM PCB CONENERS IN SOIL/LOT, S	---	10.005300
M2160219BS013	SOLVENT	---	---	1.000000
M2160219BS014	CS3_PCB 150417CXU	---	---	1.000000
M2160219BS017	SOLVENT	---	---	1.000000
M2160219BS018	SOLVENT	---	---	1.000000
M2160219BS019	PCB R.S. 16/02/19 test	100uL nonane + 10uL R.S. solution	---	1.000000
M2160219BS020	PCB R.S. 15/11/04	100uL nonane + 10uL R.S. solution	---	1.000000

WS# : 4386412

Page #: 1/2



Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Thursday, February 18, 2016

Assigned to : Cathy Xu

Test Code : PCBCONHR-T

Instrument Id: 220-GCHRMS2

Test Description : To determine PCB congeners in tissue - full list of congeners (must specify whether to calculate on Lipid content).

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date
	REF MAT		MHRPD										2016/02/11
	SPIKE	0	MHRPD										2016/02/11
	SPIKE	1	MHRPD										2016/02/11
	BLANK												2016/02/11
B612062	*BRP508-01R		PG-SMA2-2-MUS-*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP509-01R		PG-PJ-1-MUS-COC*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP510-01R	0	PG-WS-1-MUS-CO*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP510-01R	1	PG-WS-1-MUS-CO*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP511-01R		PG-GP-1-MUS-CO*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP512-01R		PG-SMA2-5-MUS-*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612062	*BRP513-01R		PG-SMA2-4-MUS-*						1	2017/01/03	2016/02/23 23:00		2016/02/11
B612077	*BRP572-01R		PG-T0-MUS-COC-*						1	2016/10/29	2016/02/23 23:00		2016/02/11
B618913	BTC221-01R		FISH MEAL 5-3444*						1		2016/02/26 17:00		2016/02/11
B622429	BUA897-01R		PCB CONGENERS*						1		2016/02/28 18:00		2016/02/11

Remarks: _____

Samples extracted by: Sanjaykumar Patel

Instrumentation performed by: Cathy Xu — Date: 16/02/19

Calculations performed by: Cathy Xu — Date: 16/02/23

Validated by: Cathy Xu — Date: 16/02/23

Ultra Trace - Worksheet Validation Checklist

Prep Worksheet # 4378609	Instrument Worksheet # 4386412
Testcode: PREPPCB-T1	Testcode: PCBCONHR-T

Sample Preparation

		yes	no	n/a
1	Samples extracted within hold time	✓		
2	Client sample ID verified against Lab ID	✓		
3	Job Remarks reviewed on 2nd page of worksheet & testcodes reviewed for spiking	✓		
4	Method required QC processed with samples	✓		
5	Sample, duplicate, matrix spike appear similar, initial sample as well as final extract	✓		
6	Sample weight or initial volume and extract final volume, aliquot factor clearly recorded.	✓		
7	If performed any additional dilution clearly recorded	✓		
8	Spiking solutions valid (haven't expired), ID and volume used clearly identified on worksheet	✓		
9	Spiking process witnessed and signed off	✓		
10	Sample prep deviations documented on Bench Level Deviation Form (CAM FCD-00328)			✓
11	tracking sheets completed	✓		

Prepared by: Glenn Date: 2016/02/11

Comments:

Reviewed by: Glenn 2016/02/18

Primary review by the analyst - 100 % analysis review

		yes	no	n/a
1	System performance check acceptable (if applicable)	✓		
2	Analysis set-up meets method criteria	✓		
3	Tuning and correct calibration used - criteria meets method criteria	✓		
4	SQC/Control Charts updated, analysis in statistical/method control			✓
5	Internal area counts checked (if applicable)			✓
6	LCS, SRM are within acceptance criteria			✓
7	Surrogate Recovery(s) is within acceptance criteria	✓		
8	Method Blank meets acceptance criteria			✓
9	Matrix Spike recovery(s) meets acceptance criteria			✓
10	Duplicate precision meets acceptance criteria			✓
11	QC is documented on the run logs	✓		
12	Runs checked for carryover	✓		
13	Prep log / worksheet(s) are present, signed / dated by a prep / instrument analysts	✓		
14	Initial weights, splits, impinger volumes (where applicable) are documented	✓		
15	Samples above calibration range diluted and reanalyzed			✓
16	Dilution factors (where justified) have been checked for correctness and entered			✓
17	Analytical observations/anomalies documented in LIMS	✓		
18	If corrective actions were applied they are documented, initialed & dated	✓		
19	Transferred data is approved in LIMS for correctness	✓		
20	Sample Prep section (above) reviewed and verified.	✓		
21	Data package assembled (where required)	✓		

Data Approved by: Cathy Xu Date: 16/02/24

Comments:

Secondary Supervisor/Qualified Data Review Staff

		yes	no	n/a
1	Repeats documented and referenced	✓		
2	Method and sample deviations noted, anomalies described (if applicable)	✓		
3	Data and QC validated in LIMS	✓		
4	Manual integration – before & after data with a reason included, initialed & dated	✓		
5	Random calculation checked	✓		
6	Worksheet(s) and sample prep sheets (FCDs) signed and dated	✓		
7	Data Package (if required) checked for completeness	✓		

Validation Status Checked by: Cathy Date: 16/02/23

Comments:

Note: Primary and Secondary Internal Data Review Check must be performed by a different person

WS# : 4378609

Page #: 1/2

Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Thursday, February 11, 2016

Assigned to : Sanjaykumar Patel

Test Code : PREPPCB-TI

Instrument Id:

Test Description : Preparation of tissue by 1668 for PCBs

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date	
	REF MAT		B 1974 C		T40	7.8846	100uL					T40	2016/02/11	
	SPIKE	0	BFM737		T31	10.2044						T153	2016/02/11	W108
	SPIKE	1	BFM737		T67	10.1485						T174	2016/02/11	GPT7
	BLANK		BFM737		T69	10.2715						T5	2016/02/11	GP135
B612062	BRP508-01R		PG-SMA2-2-MUS-*		T151	10.2378			1	2017/01/03	2016/02/10 18:00	T186	2016/02/11	GP9
B612062	BRP509-01R		PG-PJ-1-MUS-COC*		T161	10.1419			1	2017/01/03	2016/02/10 18:00	T36	2016/02/11	GP5
B612062	BRP510-01R	0	PG-WS-1-MUS-CO*		T162	10.0763			1	2017/01/03	2016/02/10 18:00	T187	2016/02/11	GP18
B612062	BRP510-01R	1	PG-WS-1-MUS-CO*		T153	10.1728			1	2017/01/03	2016/02/10 18:00	T171	2016/02/11	GP123
B612062	BRP511-01R		PG-GP-1-MUS-CO*		T50	10.0191			1	2017/01/03	2016/02/10 18:00	T193	2016/02/11	T154
B612062	BRP512-01R		PG-SMA2-5-MUS-*		T164	10.6344			1	2017/01/03	2016/02/10 18:00	T155	2016/02/11	GP11
B612062	BRP513-01R		PG-SMA2-4-MUS-*		T35	10.1339			1	2017/01/03	2016/02/10 18:00	B34	2016/02/11	GP16
B612077	BRP572-01R		PG-T0-MUS-COC-*		T9	10.0914			1	2016/10/29	2016/02/10 18:00	T198	2016/02/11	GP113
B618913	BTC221-01R		FISH MEAL 5-3444*		T36	10.2362		5	1		2016/02/22 17:00	T200	2016/02/11	GP127/6
B622429	BUA897-01R		PCB CONGENERS*		T150	10.3555		10X	1		2016/02/21 18:00	T191	2016/02/11	GP8C
	BLK.		Naysorb/solvent		T38							T17		GP91
	MS						↓							

Remarks: 2016 02 13 BUA897 1/5 of sample extract used for cleanup MR2

Samples extracted by: Sanjaykumar Patel

Instrumentation performed by: _____ Date: _____

Calculations performed by: _____ Date: _____

Validated by: _____ Date: _____

Job No.	Rep / Client Name / Remarks	Contact	Client Tier	National
GB612062	MDG Anchor QEA, LLC PCBCONHR-T ANCHOR QEA Project. ***Please extract SRM and Spike Dup*** 4 week TAT ANCHOR EQuis EDD. Please contact client before disposal of samples. Store any remaining mass frozen. Project #: ATS0	Anchor QEA Reporting		
GB612077	MDG Anchor QEA, LLC PCBCONHR-T Anchor QEA Project. ***Please extract SRM and Spike Dup*** 4 week TAT ANCHOR EQuis required. Please contact client prior to disposal. Store any remaining mass frozen. Project #: APR4	Anchor QEA Reporting		
FB618913	MDC Maxxam BRL PT Programs Project #: BIPEA JANUARY 2016	Salima Haniff	Tier 4 (Enviro.)	
GB622429	MDC Maxxam BRL PT Programs Please report data for DF8290-S and DF1613-S on separate final reports. Refer to the attached sample handling instructions before processing samples. Project #: LPTP16-S1	Salima Haniff	Tier 4 (Enviro.)	

2016/02/11

Surrogates/Spikes	Method Spike	Spikes	Samples

Sample	Preparation Remarks

Sample	Instrumentation Remarks

HRMS Sample Information Transfer

Analyst: Sanjay

Date: 2016/02/11

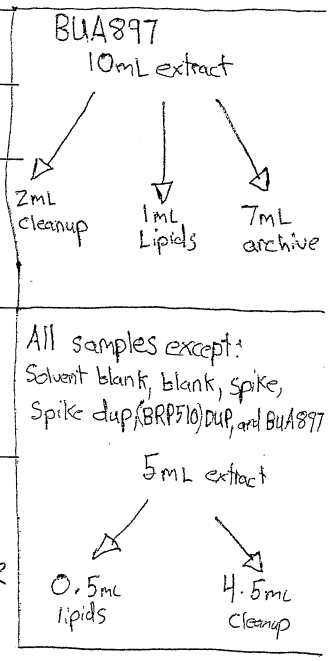
WS # 4378609

Extraction Status:

Roto-Vap Status: Done 2016/02/13 MH
Filtered/Transferred 2016/02/13 MH

Lipids done, Started on GPC - MRZ 2016 02 13
rotovaped after GPC 2016/02/14 MH

Cleanup Status:
Acid Column Done 2016/02/14 MH
- PCB column done, need to blow down. 2016/02/16 MR



Reacti-Vial: done 2016.02.18 2016/02/18

Completion Date: 2016/02/18

HR Soil/Tissue/Food Tracking Sheet

Solvent	Lot No		Date & Time
MeCl	157981	Soxhlet Burner On	2016/02/11 4:30pm
Hexane	157979	Soxhlet Burner Off	2016/02/12 9 Am
Toluene		GPC'd By	MRZ
Iso Octane	157042	GPC Date	20160213
Na_2SO_4	153169	GPC ID #	2
Acetone		FMS Used by:-	
Silica	24		

*Note: If samples are cleaned up by FMS then attach the FMS FCD.

Extracted by:-	SPT	WS#	4378609
Cleaned up by:-	MH, SPT		
		Spiking Witness by:	KN 2016/02/11
ID of Balance Used	1		
Rotovape ID	6, 2, 1, 7		

DF

Solvent/Absorbent	Lot#/Lab ID	Solvent/Absorbent	Lot#/Lab ID	Solvent/Absorbent	Lot#/Lab ID	Solvent/Absorbent	Lot#/Lab ID
44% Acid Silica		4%DCM : Hexane		50% Tolue.:Ethy.Acet		H2So4	
33%KOH Silica		Alumina		50%DCM : Hexane		KOH	
10% AgNO3		50%DCM : Cyclohex.		Carbon/Celite		Carbon	

Surrogate/Spike solutions	Syringe ID	Concentration	Prep. Date/Code	MTD SPK	Mx. Spk.	Samples
EPA Mtd 23 Internal Srd Soln		13C12-T4-H7DD/DF @ 100 pg/ul 13C12-O8CDD @ 200 pg/ul				
EPA Mtd 23 Matrix Spiking Soln		T4-H7DD/DF @ 250pg/ul O8CDD/DF @ 500pg/ul				
EPA Mtd 1613 Internal Std. Soln		13C12-T4-H7DD/DF @ 100pg/ul 13C12-O8CDD @ 200pg/ul				
EPA Mtd 1613 Matrix Spiking Soln		T4@ 40 P5-H7DD/DF @200 pg/ul O8CDD/DF @ 400 pg/ul				
EPA Mtd 1613 Alt. Spike (Clean-up)		37Cl4-2378-T4CDD @ 40pg/ul				
EPA Region IV (8290) Internal Std Soln		13C12-T4-P5@100pg/ul H6-H7@250 pg/ul 13C12O8CDD@500 pg/ul				
EPA Region IV (8290)Mat. Spiking Soln		T4-H7DD/DF @ 25 pg/ul O8CDD/DF @ 50 pg/ul				

PAHs

Solvent/ Absorbent	Lot#/Lab ID
1% Deati. Alumina	

Surrogate/Spike solutions	Syringe ID	Concentration	Prep. Date/Code	MTD SPK	Mx. Spk.	Samples
CARB 429 Internal Std Soln (PAH)		5-10 ng/ul				
CARB 429 Matrix Spiking Soln		5ng/ul				

PCBs

Solvent/ Absorbent	Lot#/Lab ID	Solvent/ Absorbent	Lot#/Lab ID	Solvent/ Absorbent	Lot#/Lab ID
44% Acid Silica	2016/02/02 07	3% Deactivated Silica	2016-02-05 #2	H2SO4	
Copper	Qqc	Nonane	3HBD8765V	HCl	
3% Deactivated Florisil	2016-02-05 #2				

Surrogate/Spike solutions	Syringe ID	Concentration	Prep. Date/Code	MTD SPK	Mx. Spk.	Samples
HR PCB Internal Std Soln	15HRMS-22 ✓	0.4ng/ul	150409CX40) 1/2 ✓	5uL	5uL	5uL
HR PCB Matrix Spiking Soln	15HRMS-23 ✓	0.1ng/uL	150414 CXU 1/2 ✓	10uL	10uL	-
HR PCB Alternate (Clean-up) Spike	14 HRMS - 13	0.4ng/uL	15 04 10 CXU 1/2	5uL	5uL	5uL

Ocs 14HRMS 27

Solvent/ Absorbent	Lot#/Lab ID	Solvent/ Absorbent	Lot#/Lab ID
Petroleum Ether		1% Deactivated Florisil	
Ethyl Acetate		20%Ethyl Acet: Petroleum Ether	

Surrogate/Spike solutions	Syringe ID	Concentration	Prep. Date/Code	MTD SPK	Mx. Spk.	Samples
HR OC Internal Std Soln		4ng/uL				
HR OC Matrix Spiking Soln		5ng/uL				

COMMENTS:-

B622429

PCB CONGENERS IN FISH TISSUE - PT

Sample Item Number **SPE068TIS-30G**

Description

The PT sample size provided is 30 g of biological fish matrix. Recommended storage condition is 4º C.

Sample Preparation

Mix Prior to use. Recommended minimum sampling size is 1 gram. Analyze The sample using the preparatory and determinative method(s) for which you are seeking accreditation. Note: Sample extracts and calibration solutions should be in the same solvent. Report on a dry weight basis.

GROUP NAME: HRMS Prep | Analyst: MR2

BATCH DATE: 2016/02/11 | Balance ID#: BAL-1

TEST CODES: LIPID-TI | Lipid WS#:

Extraction WS#	SAMPLE #	Sample Wgt. (g)	Final vol. (mL)	Vol. Used for Lipid (mL)	Wgt. Of dish (g)	Wgt of dish and dry lipid extract (g)	Lipid in extract	% Lipid
4378609	BRP508	10.2378	5	0.5	1.0032	1.0151	0.119	1.2
4378609	BRP509	10.1419	5	0.5	1.0194	1.028	0.086	0.8
4378609	BRP510	10.0763	5	0.5	1.0187	1.0296	0.109	1.1
4378609	BRP511	10.0191	5	0.5	1.0086	1.0193	0.107	1.1
4378609	BRP512	10.6344	5	0.5	1.0161	1.026	0.099	0.9
4378609	BRP513	10.1339	5	0.5	1.0041	1.0123	0.082	0.8
4378609	BRP572	10.0914	5	0.5	1.0016	1.0138	0.122	1.2
4378609	BTC221	10.2362	5	0.5	1.0024	1.0881	0.857	8.4 2X
4378609	BUA897	10.3555	10	1	1.0126	1.1944	1.818	17.6
4378609	Ref. Mat.	7.8846	5	0.5	1.005	1.0119	0.069	0.9
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
			5	0.5			0.000	#DIV/0!
							#DIV/0!	#DIV/0!
							#DIV/0!	#DIV/0!
							#DIV/0!	#DIV/0!
							#DIV/0!	#DIV/0!
							#DIV/0!	#DIV/0!
							#DIV/0!	#DIV/0!
							#DIV/0!	#DIV/0!

4.3 Sample Chromatograms

Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Maxxam Analytics

Analysis Type : PCBCONHR-T

Maxxam ID # : BRP572-01R

Analyte: PCB 105

Instr. File Name : M2160219BS005

Injection Date : 2016/02/19
Injection Time : 15:28:00

SAMPLE DATA: the following is applicable to all reported HRMS analyte calculations

			DAILY RFs Using post concal
Analyte Area (Primary + Secondary Ions) =	**21246**	=A	
Recovery Standard Area (Primary + Secondary Ions) =	**1322965**	=B	
Internal Standard Area (Primary + Secondary Ions) =	**430449**	=C	
Amount of Recovery Standard added to the Extract (pg, ng) =	11.11	=D	
Amount of Internal Std. added to the sample (pg, ng) =	2	=E	
Average RRF of Analyte =	0.977	=F	
RRF of Internal Standard =	1.822	=G	
Amount of Sample Extracted (g or L) =	10.091	=H	
SPLIT / Dilution Factor =	1	=I	
Analyte Conc. (pg/g, pg/L, Total pg) = or (ng/g, ng/L, Total ng) =	0.01001	=A*E/(C*H*F)*I	#DIV/0!
Internal Standard Recovery (%) =	99	=C*D*100/(B*E*G)	#DIV/0!

Filename M2160219BS005
Acquired 19/02/2016 15:28 Cali File M2160219_209

Sample ID BRP572-01R
Comments Anchor QEA, PG-T0-5-MUS-COC-151030, Ti
Instrument File Ultima 2
Sample Size 10.091 Dil Fac 1.00

	Name		mass	RT	Area	ratio	Tot Area	ng/g	Code	Isomers DL	S/N	Mod	rrf	Rec
1	PCB 1		188	9.00	1143	3.38	1482	-0.00074		-0.00074	*	yes	1.082	-
		MoCB	190	8.99	338	yes					*			
2	PCB 2		188	10.10	468	2.25	676	-0.00064		-0.00064	*	yes	1.248	-
		MoCB	190	10.09	208	no					*			
3	PCB 3		188	10.18	863	0.27	4036	-0.00074		-0.00074	*	Op-O	1.079	-
		MoCB	190	10.19	3173	no					*			
4	**PCB 4**		**222**	**10.30**	**3316**	**1.51**	**5507**	**0.00579**		-0.00113	0	xL	0.954	-
		DiCB	224	10.31	2191	OK					0			
5	PCB 10		222	NotFnd	*	*	*	-0.00092		-0.00092	*	no	1.177	-
		DiCB	224	10.39	*	no					*			
6	PCB 9		222	11.20	1306	2.58	1812	-0.00087		-0.00087	*	no	1.357	-
		DiCB	224	11.20	506	no					*			
7	PCB 7		222	NotFnd	*	*	*	-0.00102		-0.00102	*	no	1.155	-
		DiCB	224	11.26	*	no					*			
8	**PCB 6**		**222**	**11.36**	**4829**	**1.37**	**8355**	**0.002941**		-0.00088	17	no	1.347	-
		DiCB	224	11.37	3526	yes					19			
9	**PCB 5**		**222**	**11.55**	**23482**	**1.65**	**37699**	**0.015302**		-0.00101	74	no	1.169	-
		DiCB	224	11.51	14217	yes					75			
10	PCB 8		222	NotFnd	*	*	*	-0.0009		-0.0009	*	no	1.307	-
		DiCB	224	11.55	*	no					*			
11	PCB 14		222	NotFnd	*	*	*	-0.00087		-0.00087	*	no	1.351	-
		DiCB	224	12.26	*	no					*			
12	**PCB 11**		**222**	**12.66**	**15803**	**1.62**	**25576**	**0.009124**		-0.00089	41	no	1.33	-
		DiCB	224	12.65	9772	yes					36			
13	PCB 13/12		222	12.78	-1127.88	1.56	-1850.88	-0.00071	PCB 13/12 NDR	-0.00095	5	xL	1.241	-
		DiCB	224	12.79	-723	OK					4			
14	**PCB 15**		**222**	**12.95**	**26549**	**1.69**	**42235**	**0.015072**		-0.00136	70	yes	0.871	-
		DiCB	224	12.93	15686	yes					65			
15	**PCB 19**		**256**	**11.68**	**2632**	**0.97**	**5339**	**0.005932**		-0.00081	33	no	0.899	-
		TriCB	258	11.68	2706	yes					37			
16	**PCB 30/18**		**256**	**12.49**	**18565**	**1.02**	**36752**	**0.018785**		-0.00074	240	no	0.976	-
		TriCB	258	12.48	18187	yes					255			
17	**PCB 17**		**256**	**12.70**	**6983**	**1.09**	**13367**	**0.008433**		-0.00092	77	no	0.79	-
		TriCB	258	12.69	6384	yes					72			
18	**PCB 27**		**256**	**12.79**	**3226**	**0.99**	**6477**	**0.002743**		-0.00062	41	yes	1.177	-
		TriCB	258	12.79	3251	yes					44			
19	PCB 24		256	12.85	635	1.02	1258	-0.00076		-0.00076	*	yes	0.948	-
		TriCB	258	12.87	623	yes					*			
20	**PCB 16**		**256**	**12.91**	**7057**	**1.02**	**14009**	**0.008806**		-0.00091	88	yes	0.793	-
		TriCB	258	12.90	6952	yes					93			
21	**PCB 32**		**256**	**13.14**	**12213**	**1.02**	**24213**	**0.009041**		-0.00054	150	no	1.335	-
		TriCB	258	13.14	12000	yes					152			
22	PCB 34		256	13.76	456	1.02	902	-0.00068		-0.00068	*	yes	1.484	-
		TriCB	258	13.73	446	no					*			
23	PCB 23		256	NotFnd	*	*	*	-0.0007		-0.0007	*	no	1.446	-
		TriCB	258	13.83	*	no					*			
24	**PCB 26/29**		**256**	**13.97**	**11716**	**1.08**	**22606**	**0.006984**		-0.00063	41	no	1.614	-
		TriCB	258	13.99	10890	yes					40			
25	**PCB 25**		**256**	**14.10**	**6342**	**1.03**	**12524**	**0.003599**		-0.00058	21	no	1.735	-
		TriCB	258	14.11	6181	yes					22			
26	**PCB 31**		**256**	**14.26**	**61106**	**1.02**	**121001**	**0.032887**		-0.00055	216	no	1.835	-
		TriCB	258	14.28	59895	yes					218			
27	**PCB 28/20**		**256**	**14.43**	**145628**	**1.04**	**285782**	**0.084395**		-0.0006	505	no	1.688	-
		TriCB	258	14.45	140154	yes					500			
28	**PCB 21/33**		**256**	**14.55**	**32667**	**1**	**65213**	**0.019024**		-0.00059	105	no	1.709	-
		TriCB	258	14.55	32546	yes					109			
29	**PCB 22**		**256**	**14.77**	**33884**	**1.03**	**66861**	**0.020856**		-0.00063	110	no	1.599	-
		TriCB	258	14.78	32977	yes					112			
30	PCB 36		256	NotFnd	*	*	*	-0.00054		-0.00054	*	no	1.858	-
		TriCB	258	15.62	*	no					*			
31	PCB 39		256	15.83	657	0.83	1445	-0.00067		-0.00067	*	yes	1.519	-
		TriCB	258	15.82	788	no					*			
32	PCB 38		256	NotFnd	*	*	*	-0.00064		-0.00064	*	no	1.574	-
		TriCB	258	16.20	*	no					*			
33	**PCB 35**		**256**	**16.45**	**1249**	**1.16**	**2328**	**0.000767**		-0.00067	3	no	1.514	-
		TriCB	258	16.47	1079	yes					4			
34	**PCB 37**		**256**	**16.70**	**18151**	**1.1**	**34691**	**0.01273**		-0.00112	49	no	0.906	-
		TriCB	258	16.72	16539	yes					49			
35	PCB 54		290	13.08	182	1.18	336	-0.00063		-0.00063	*	yes	0.911	-
		TCB	292	13.08	154	no					*			
36	**PCB 53/50**		**290**	**14.12**	**6648**	**0.83**	**14668**	**0.009875**		-0.00142	29	no	0.77	-
		TCB	292	14.11	8020	yes					27			
37	**PCB 45/51**		**290**	**14.48**	**4993**	**0.8**	**11207**	**0.008002**		-0.00151	20	no	0.725	-
		TCB	292	14.49	6214	yes					19			
38	**PCB 46**		**290**	**14.64**	**2133**	**0.83**	**4714**	**0.004042**		-0.00181	9	no	0.604	-
		TCB	292	14.64	2581	yes					8			
39	**PCB 52**		**290**	**15.38**	**38769**	**0.79**	**88078**	**0.060663**		-0.00145	163	no	0.752	-
		TCB	292	15.38	49309	yes					156			
40	PCB 73		290	NotFnd	*	*	*	-0.00109		-0.00109	*	no	1.002	-
		TCB	292	15.43	*	no					*			
41	**PCB 43**		**290**	**15.53**	**1499**	**0.86**	**3245**	**0.00335**		-0.00218	6	no	0.502	-
		TCB	292	15.50	1746	yes					5			
42	**PCB 69/49**		**290**	**15.65**	**18672**	**0.81**	**41611**	**0.025009**		-0.00127	75	no	0.862	-
		TCB	292	15.63	22939	yes					72			

43 PCB 48	**290**	**15.83**	**7352**	**0.77**	**16930**	**0.012835**		-0.0016	30	no	0.683	-
	TCB 292	15.84	9578	yes					30			
44 PCB 44/47/65	**290**	**15.96**	**35376**	**0.82**	**78678**	**0.052295**		-0.0014	115	no	0.779	-
	TCB 292	15.97	43302	yes					109			
45 PCB 59/62/75	290	16.16	-4280.43	0.77	-9839.43	-0.00517	PCB 59/62/75 NDR	-0.00111	18	xL	0.983	-
	TCB 292	16.16	-5559	OK					16			
46 PCB 42	**290**	**16.29**	**7629**	**0.78**	**17410**	**0.014927**		-0.00181	31	no	0.604	-
	TCB 292	16.27	9781	yes					28			
47 PCB 40/41/71	**290**	**16.58**	**16893**	**0.83**	**37219**	**0.027976**		-0.00159	57	no	0.689	-
	TCB 292	16.56	20326	yes					51			
48 PCB 64	**290**	**16.72**	**12185**	**0.8**	**27424**	**0.015791**		-0.00122	47	no	0.9	-
	TCB 292	16.70	15239	yes					45			
49 PCB 72	290	17.20	1028	0.74	2410	-0.00108		-0.00108	*	yes	1.261	-
	TCB 292	17.20	1382	yes					*			
50 PCB 68	290	17.40	784	0.61	2064	-0.00105		-0.00105	*	yes	1.298	-
	TCB 292	17.42	1280	no					*			
51 PCB 57	290	17.70	221	0.6	593	-0.00093		-0.00093	*	yes	1.477	-
	TCB 292	17.68	371	no					*			
52 PCB 58	290	NotFnd	*	*	*	-0.00107		-0.00107	*	no	1.274	-
	TCB 292	17.85	*	no					*			
53 PCB 67	290	17.97	1121	0.79	2538	-0.00083		-0.00083	*	yes	1.647	-
	TCB 292	17.95	1417	yes					*			
54 PCB 63	**290**	**18.15**	**1405**	**0.83**	**3109**	**0.00105**		-0.00089	3	yes	1.533	-
	TCB 292	18.15	1704	yes					3			
55 PCB 61/70/74/76	**290**	**18.36**	**34267**	**0.75**	**79774**	**0.030104**		-0.001	57	yes	1.373	-
	TCB 292	18.36	45507	yes					60			
56 PCB 66	**290**	**18.59**	**16629**	**0.78**	**37914**	**0.012425**		-0.00086	37	yes	1.581	-
	TCB 292	18.60	21285	yes					37			
57 PCB 55	290	NotFnd	*	*	*	-0.00111		-0.00111	*	no	1.229	-
	TCB 292	18.73	*	no					*			
58 PCB 56	**290**	**19.07**	**2980**	**0.86**	**6464**	**0.002615**		-0.00107	7	yes	1.28	-
	TCB 292	19.07	3484	yes					6			
59 PCB 60	**290**	**19.23**	**2904**	**0.82**	**6444**	**0.002637**		-0.00108	7	yes	1.266	-
	TCB 292	19.24	3540	yes					6			
60 PCB 80	290	NotFnd	*	*	*	-0.00086		-0.00086	*	no	1.596	-
	TCB 292	19.50	*	no					*			
61 PCB 79	290	20.64	524	0.67	1301	-0.00081		-0.00081	*	yes	1.695	-
	TCB 292	20.63	777	yes					*			
62 PCB 78	290	NotFnd	*	*	*	-0.00095		-0.00095	*	no	1.435	-
	TCB 292	21.08	*	no					*			
63 PCB 81	290	NotFnd	*	*	*	-0.00133		-0.00133	*	no	1.027	-
	TCB 292	21.45	*	no					*			
64 PCB 77	**290**	**21.89**	**1817**	**0.86**	**3939**	**0.001608**		-0.00127	4	yes	1.077	-
	TCB 292	21.89	2122	yes					3			
65 PCB 104	326	NotFnd	*	*	*	-0.00054		-0.00054	*	no	1.094	-
	PeCB 328	15.94	*	no					*			
66 PCB 96	326	16.18	437	1.93	662	-0.00074		-0.00074	*	yes	0.802	-
	PeCB 328	16.15	226	no					*			
67 PCB 103	**326**	**17.33**	**961**	**1.72**	**1519**	**0.001066**		-0.00083	4	yes	0.714	-
	PeCB 328	17.31	558	yes					4			
68 PCB 94	326	17.47	343	1.76	537	-0.00114		-0.00114	*	yes	0.521	-
	PeCB 328	17.47	195	yes					*			
69 PCB 95	**326**	**17.77**	**20589**	**1.62**	**33275**	**0.025989**		-0.00093	91	yes	0.641	-
	PeCB 328	17.76	12686	yes					85			
70 PCB 100/93/102/98	**326**	**18.00**	**2153**	**1.77**	**3372**	**0.003019**		-0.00106	6	yes	0.559	-
	PeCB 328	17.91	1219	yes					6			
71 PCB 88/91	**326**	**18.36**	**1848**	**1.78**	**2886**	**0.002534**		-0.00104	8	yes	0.57	-
	PeCB 328	18.33	1039	yes					6			
72 PCB 84	**326**	**18.52**	**2658**	**1.75**	**4179**	**0.004259**		-0.00121	11	yes	0.491	-
	PeCB 328	18.49	1520	yes					10			
73 PCB 89	326	NotFnd	*	*	*	-0.0011		-0.0011	*	no	0.541	-
	PeCB 328	18.84	*	no					*			
74 PCB 121	326	NotFnd	*	*	*	-0.00081		-0.00081	*	no	0.733	-
	PeCB 328	19.08	*	no					*			
75 PCB 92	**326**	**19.36**	**6630**	**1.62**	**10726**	**0.009212**		-0.00102	27	no	0.583	-
	PeCB 328	19.35	4096	yes					26			
76 PCB 113/90/101	**326**	**19.80**	**36780**	**1.61**	**59582**	**0.043944**		-0.00088	147	no	0.679	-
	PeCB 328	19.76	22803	yes					141			
77 PCB 83/99	**326**	**20.23**	**25889**	**1.65**	**41536**	**0.04015**		-0.00115	99	no	0.518	-
	PeCB 328	20.22	15647	yes					93			
78 PCB 112	326	NotFnd	*	*	*	-0.00072		-0.00072	*	no	0.83	-
	PeCB 328	20.30	*	no					*			
79 PCB 109/119/86/97/125/	**326**	**20.62**	**11780**	**1.66**	**18887**	**0.014178**		-0.00089	30	yes	0.667	-
	PeCB 328	20.62	7106	yes					28			
80 PCB 117/116/85	**326**	**21.19**	**4967**	**1.55**	**8175**	**0.005709**		-0.00083	18	no	0.717	-
	PeCB 328	21.19	3208	yes					18			
81 PCB 110/115	**326**	**21.32**	**23062**	**1.63**	**37221**	**0.027773**		-0.00089	84	no	0.671	-
	PeCB 328	21.32	14159	yes					79			
82 PCB 82	**326**	**21.58**	**1229**	**1.76**	**1927**	**0.001878**		-0.00116	4	no	0.514	-
	PeCB 328	21.59	698	yes					4			
83 PCB 111	326	NotFnd	*	*	*	-0.00079		-0.00079	*	no	0.749	-
	PeCB 328	21.85	*	no					*			
84 PCB 120	326	22.24	457	1.54	754	-0.0007		-0.0007	*	yes	0.853	-
	PeCB 328	22.25	296	yes					*			
85 PCB 108/124	**326**	**23.21**	**1732**	**1.41**	**2963**	**0.001186**		-0.00095	3	yes	1.251	-
	PeCB 328	23.21	1231	yes					3			
86 PCB 107	**326**	**23.42**	**4710**	**1.41**	**8047**	**0.003066**		-0.0009	8	yes	1.314	-
	PeCB 328	23.40	3337	yes					9			
87 PCB 123	326	23.51	678	1.76	1063	-0.00133		-0.00133	*	yes	0.894	-
	PeCB 328	23.51	385	yes					*			
88 PCB 106	326	NotFnd	*	*	*	-0.00086		-0.00086	*	no	1.375	-
	PeCB 328	23.63	*	no					*			
89 PCB 118	**326**	**23.81**	**41418**	**1.58**	**67685**	**0.030444**		-0.00121	73	no	0.981	-
	PeCB 328	23.80	26268	yes					72			

90 PCB 122	326	NotFnd	*	*	*	-0.00097		-0.00097	*	no	1.222	-	
	PeCB 328	24.08	*	no					*				
91 PCB 114	326	NotFnd	*	*	*	-0.00118		-0.00118	*	no	1.01	-	
	PeCB 328	24.28	*	no					*				
92 PCB 105	**326**	**24.84**	**13222**	**1.65**	**21246**	**0.010017**		-0.00122	22	no	0.977	-	
	PeCB 328	24.85	8024	yes					21				
93 PCB 127	326	NotFnd	*	*	*	-0.00088		-0.00088	*	no	1.348	-	
	PeCB 328	26.20	*	no					*				
94 PCB 126	326	27.73	223	1.96	337	-0.00122		-0.00122	*	yes	0.977	-	
	PeCB 328	27.72	114	no					*				
95 PCB 155	360	NotFnd	*	*	*	-0.00069		-0.00069	*	no	0.997	-	
	HxCB 362	19.63	*	no					*				
96 PCB 152	360	NotFnd	*	*	*	-0.00101		-0.00101	*	no	0.675	-	
	HxCB 362	19.78	*	no					*				
97 PCB 150	360	NotFnd	*	*	*	-0.00107		-0.00107	*	no	0.639	-	
	HxCB 362	19.88	*	no					*				
98 PCB 136	**360**	**20.20**	**2723**	**1.31**	**4801**	**0.003953**		-0.00102	15	no	0.672	-	
	HxCB 362	20.18	2078	yes					14				
99 PCB 145	360	NotFnd	*	*	*	-0.00118		-0.00118	*	no	0.579	-	
	HxCB 362	20.41	*	no					*				
100 PCB 148	360	21.57	132	0.98	267	-0.0014		-0.0014	*	yes	0.487	-	
	HxCB 362	21.55	135	no					*				
101 PCB 151/135	**360**	**22.05**	**8165**	**1.39**	**14040**	**0.017241**		-0.00151	36	yes	0.451	-	
	HxCB 362	22.04	5875	yes					32				
102 PCB 154	**360**	**22.24**	**1010**	**1.26**	**1811**	**0.001842**		-0.00126	5	yes	0.544	-	
	HxCB 362	22.22	801	yes					5				
103 PCB 144	**360**	**22.51**	**728**	**1.16**	**1357**	**0.001556**		-0.00141	4	yes	0.483	-	
	HxCB 362	22.51	629	yes					4				
104 PCB 147/149	**360**	**22.80**	**24638**	**1.3**	**43608**	**0.037301**		-0.00128	95	yes	0.647	-	
	HxCB 362	22.80	18970	yes					91				
105 PCB 134/143	**360**	**22.99**	**1243**	**1.12**	**2350**	**0.002311**		-0.00147	5	yes	0.563	-	
	HxCB 362	23.06	1106	yes					5				
106 PCB 139/140	360	23.33	662	1.59	1080	-0.0013		-0.0013	*	yes	0.639	-	
	HxCB 362	23.31	418	no					*				
107 PCB 131	360	NotFnd	*	*	*	-0.00162		-0.00162	*	no	0.513	-	
	HxCB 362	23.49	*	no					*				
108 PCB 142	360	NotFnd	*	*	*	-0.00142		-0.00142	*	no	0.583	-	
	HxCB 362	23.65	*	no					*				
109 PCB 132	**360**	**23.88**	**2945**	**1.42**	**5026**	**0.005321**		-0.00158	11	yes	0.523	-	
	HxCB 362	23.88	2081	yes					10				
110 PCB 133	360	24.31	-871	1.24	-1573.42	-0.00135	PCB 133 NDR	-0.00133	4	xL	0.623	-	
	HxCB 362	24.31	-702.419	OK					5				
111 PCB 165	360	NotFnd	*	*	*	-0.00116		-0.00116	*	no	0.714	-	
	HxCB 362	24.68	*	no					*				
112 PCB 146	**360**	**24.88**	**8846**	**1.27**	**15825**	**0.013199**		-0.00125	32	yes	0.663	-	
	HxCB 362	24.88	6979	yes					34				
113 PCB 161	360	NotFnd	*	*	*	-0.00093		-0.00093	*	no	0.888	-	
	HxCB 362	25.03	*	no					*				
114 PCB 153/168	**360**	**25.45**	**59873**	**1.3**	**105801**	**0.073915**		-0.00105	223	no	0.792	-	
	HxCB 362	25.47	45927	yes					213				
115 PCB 141	**360**	**25.63**	**1026**	**1.17**	**1903**	**0.001695**		-0.00133	4	no	0.621	-	
	HxCB 362	25.62	877	yes					4				
116 PCB 130	**360**	**26.00**	**1619**	**1.1**	**3091**	**0.003064**		-0.00149	6	yes	0.558	-	
	HxCB 362	26.00	1473	yes					7				
117 PCB 137	360	26.22	596	1.41	1019	-0.00147		-0.00147	*	yes	0.563	-	
	HxCB 362	26.21	422	yes					*				
118 PCB 164	**360**	**26.32**	**1218**	**1.38**	**2102**	**0.001407**		-0.001	5	yes	0.826	-	
	HxCB 362	26.30	884	yes					4				
119 PCB 138/163/129	**360**	**26.61**	**38138**	**1.27**	**68238**	**0.058639**		-0.00129	141	yes	0.644	-	
	HxCB 362	26.62	30100	yes					136				
120 PCB 160	360	NotFnd	*	*	*	-0.00115		-0.00115	*	no	0.723	-	
	HxCB 362	26.80	*	no					*				
121 PCB 158	**360**	**26.98**	**3037**	**1.26**	**5440**	**0.003303**		-0.00091	11	no	0.911	-	
	HxCB 362	26.98	2402	yes					10				
122 PCB 128/166	**360**	**27.82**	**5082**	**1.39**	**8747**	**0.00691**		-0.00118	15	yes	0.7	-	
	HxCB 362	27.80	3665	yes					15				
123 PCB 159	360	NotFnd	*	*	*	-0.0006		-0.0006	*	no	1.379	-	
	HxCB 362	28.78	*	no					*				
124 PCB 162	360	NotFnd	*	*	*	-0.00066		-0.00066	*	no	1.254	-	
	HxCB 362	29.07	*	no					*				
125 PCB 167	**360**	**29.53**	**2160**	**1.23**	**3915**	**0.001776**		-0.00088	7	no	0.946	-	
	HxCB 362	29.55	1755	yes					7				
126 PCB 156/157	**360**	**30.68**	**3625**	**1.33**	**6341**	**0.002901**		-0.00082	9	no	1.017	-	
	HxCB 362	30.71	2716	yes					9				
127 PCB 169	360	NotFnd	*	*	*	-0.00087		-0.00087	*	no	0.954	-	
	HxCB 362	34.13	*	no					*				
128 PCB 188	394	NotFnd	*	*	*	-0.00135		-0.00135	*	no	1.012	-	
	HpCB 396	24.23	*	no					*				
129 PCB 179	**394**	**24.54**	**2474**	**1.12**	**4688**	**0.003436**		-0.00135	8	no	1.016	-	
	HpCB 396	24.52	2214	yes					8				
130 PCB 184	394	NotFnd	*	*	*	-0.00146		-0.00146	*	no	0.937	-	
	HpCB 396	25.00	*	no					*				
131 PCB 176	394	25.34	613	1.04	1201	-0.00138		-0.00138	*	yes	0.993	-	
	HpCB 396	25.32	588	yes					*				
132 PCB 186	394	NotFnd	*	*	*	-0.00158		-0.00158	*	no	0.865	-	
	HpCB 396	25.75	*	no					*				
133 PCB 178	**394**	**27.02**	**1569**	**1.16**	**2927**	**0.003176**		-0.002	5	yes	0.686	-	
	HpCB 396	27.01	1358	yes					5				
134 PCB 175	394	NotFnd	*	*	*	-0.00197		-0.00197	*	no	0.696	-	
	HpCB 396	27.62	*	no					*				
135 PCB 187	**394**	**27.89**	**8779**	**1.08**	**16938**	**0.018741**		-0.00203	29	no	0.673	-	
	HpCB 396	27.88	8159	yes					27				
136 PCB 182	394	NotFnd	*	*	*	-0.00203		-0.00203	*	no	0.674	-	
	HpCB 396	28.10	*	no					*				

137 PCB 183		**394**	**28.50**	**4185**	**1.08**	**8057**	**0.005202**	-0.00143	11	no	1.153	-
	HpCB	396	28.51	3872	yes				10			
138 PCB 185		394	NotFnd	*	*	*	-0.00205	-0.00205	*	no	0.805	-
	HpCB	396	28.58	*	no				*			
139 PCB 174		394	28.73	469	1.19	863	-0.00175	-0.00175	*	yes	0.947	-
	HpCB	396	28.74	395	yes				*			
140 PCB 177		**394**	**29.16**	**2999**	**1.05**	**5866**	**0.004744**	-0.0018	8	no	0.921	-
	HpCB	396	29.16	2867	yes				8			
141 PCB 181		394	NotFnd	*	*	*	-0.00187	-0.00187	*	no	0.885	-
	HpCB	396	29.57	*	no				*			
142 PCB 171/173		**394**	**29.78**	**1249**	**1**	**2501**	**0.002074**	-0.00184	3	no	0.898	-
	HpCB	396	29.80	1252	yes				3			
143 PCB 172		394	NotFnd	*	*	*	-0.00184	-0.00184	*	no	0.898	-
	HpCB	396	31.44	*	no				*			
144 PCB 192		394	NotFnd	*	*	*	-0.00159	-0.00159	*	no	1.043	-
	HpCB	396	31.76	*	no				*			
145 PCB 193/180		**394**	**32.15**	**6861**	**1.18**	**12697**	**0.009139**	-0.00117	15	yes	1.408	-
	HpCB	396	32.08	5836	yes				15			
146 PCB 191		394	NotFnd	*	*	*	-0.00133	-0.00133	*	no	1.24	-
	HpCB	396	32.50	*	no				*			
147 PCB 170		**394**	**33.45**	**1501**	**1.11**	**2849**	**0.002515**	-0.0013	3	yes	1.271	-
	HpCB	396	33.47	1348	yes				4			
148 PCB 190		394	NotFnd	*	*	*	-0.0013	-0.0013	*	no	1.277	-
	HpCB	396	34.04	*	no				*			
149 PCB 189		394	36.87	405	0.84	887	-0.00052	-0.00052	*	yes	0.944	-
	HpCB	396	36.88	482	no				*			
150 PCB 202		**428**	**29.28**	**838**	**0.98**	**1697**	**0.001817**	-0.00119	4	yes	0.988	-
	OcCB	430	29.28	859	yes				4			
151 PCB 201		428	30.21	350	0.82	776	-0.0011	-0.0011	*	yes	1.068	-
	OcCB	430	30.18	426	yes				*			
152 PCB 204		428	NotFnd	*	*	*	-0.00112	-0.00112	*	no	1.052	-
	OcCB	430	30.89	*	no				*			
153 PCB 197		428	NotFnd	*	*	*	-0.00123	-0.00123	*	no	0.951	-
	OcCB	430	31.12	*	no				*			
154 PCB 200		428	NotFnd	*	*	*	-0.00111	-0.00111	*	no	1.056	-
	OcCB	430	31.24	*	no				*			
155 PCB 198/199		428	34.22	239	0.6	634	-0.00167	-0.00167	*	yes	0.702	-
	OcCB	430	34.19	395	no				*			
156 PCB 196		428	34.94	141	0.67	352	-0.0016	-0.0016	*	yes	0.734	-
	OcCB	430	34.93	211	no				*			
157 PCB 203		428	35.14	453	0.71	1096	-0.00165	-0.00165	*	yes	0.711	-
	OcCB	430	35.12	643	no				*			
158 PCB 195		428	NotFnd	*	*	*	-0.001	-0.001	*	no	1.046	-
	OcCB	430	36.60	*	no				*			
159 PCB 194		**428**	**39.21**	**792**	**0.92**	**1654**	**0.001234**	-0.00093	3	yes	1.119	-
	OcCB	430	39.22	862	yes				3			
160 PCB 205		428	NotFnd	*	*	*	-0.00096	-0.00096	*	no	1.091	-
	OcCB	430	39.77	*	no				*			
161 PCB 208		462	NotFnd	*	*	*	-0.00084	-0.00084	*	no	1.023	-
	NoCB	464	36.33	*	no				*			
162 PCB 207		462	NotFnd	*	*	*	-0.00066	-0.00066	*	no	1.304	-
	NoCB	464	37.35	*	no				*			
163 PCB 206		462	NotFnd	*	*	*	-0.00084	-0.00084	*	no	1.027	-
	NoCB	464	41.71	*	no				*			
164 PCB 209		498	43.59	225	1.04	441	-0.00091	-0.00091	*	yes	1.04	-
	DCB	500	43.56	216	yes				*			
165 PCB 1L		**200**	**8.99**	**308872**	**3.39**	**399934**	**0.136547**	0	8968	no	0.824	69
		202	8.97	91062	yes				496			
166 PCB 3L		**200**	**10.18**	**302596**	**3.46**	**390004**	**0.128693**	0	8602	no	0.852	65
		202	10.18	87408	yes				471			
167 PCB 4L		**234**	**10.30**	**121939**	**1.61**	**197748**	**0.102499**	0	3142	no	0.543	52
		236	10.28	75809	yes				4334			
168 PCB 15L		**234**	**12.93**	**399659**	**1.68**	**637954**	**0.167016**	0	876	no	1.074	84
		236	12.91	238295	yes				1848			
169 PCB 19L		**268**	**11.68**	**102892**	**1.08**	**198487**	**0.096547**	0.001	205	no	0.578	49
		270	11.68	95595	yes				373			
170 PCB 37L		**268**	**16.70**	**310319**	**1.08**	**596441**	**0.216615**	0.001	416	no	1.987	109
		270	16.69	286122	yes				604			
171 PCB 54L		**302**	**13.06**	**103921**	**0.8**	**234099**	**0.13019**	0	871	no	1.297	66
		304	13.07	130178	yes				2445			
172 PCB 81L		**302**	**21.42**	**205060**	**0.79**	**463058**	**0.192238**	0	995	no	1.738	97
		304	21.42	257998	yes				3122			
173 PCB 77L		**302**	**21.87**	**198267**	**0.79**	**450549**	**0.193827**	0	925	no	1.677	98
		304	21.85	252282	yes				2967			
174 PCB 104L		**338**	**15.92**	**128060**	**1.6**	**207915**	**0.149718**	0	6706	no	1.156	76
		340	15.93	79855	yes				4471			
175 PCB 123L		**338**	**23.49**	**291101**	**1.66**	**466761**	**0.20065**	0	3759	no	1.936	101
		340	23.50	175659	yes				2669			
176 PCB 118L		**338**	**23.77**	**282552**	**1.7**	**448936**	**0.196032**	0	3568	no	1.906	99
		340	23.76	166385	yes				2489			
177 PCB 114L		**338**	**24.26**	**264839**	**1.65**	**424965**	**0.199482**	0	3347	no	1.773	101
		340	24.26	160126	yes				2417			
178 PCB 105L		**338**	**24.83**	**269268**	**1.67**	**430449**	**0.19656**	0	3356	no	1.822	99
		340	24.81	161181	yes				2404			
179 PCB 126L		**338**	**27.69**	**262418**	**1.61**	**425853**	**0.204201**	0	2999	no	1.735	103
		340	27.68	163434	yes				2166			
180 PCB 155L		**372**	**19.61**	**126113**	**1.28**	**224257**	**0.138829**	0	9460	no	1.404	70
		374	19.61	98144	yes				4221			
181 PCB 167L		**372**	**29.52**	**260833**	**1.3**	**461963**	**0.190244**	0	3596	no	2.11	96
		374	29.49	201130	yes				2470			
182 PCB 156L/157L		**372**	**30.68**	**478227**	**1.28**	**851872**	**0.385321**	0	5428	no	1.921	97
		374	30.69	373645	yes				3841			
183 PCB 169L		**372**	**34.10**	**180586**	**1.29**	**320714**	**0.147731**	0	2208	no	1.886	75
		374	34.07	140128	yes				1575			

184 PCB 188L	**406**	**24.20**	**105998**	**1.04**	**208028**	**0.135965**	0	4250	no	1.329	69
	408	24.21	102030	yes				4203			
185 PCB 180L	**406**	**32.11**	**101269**	**1.07**	**195619**	**0.126259**	0	3997	no	1.349	64
	408	32.09	94350	yes				2836			
186 PCB 170L	**406**	**33.44**	**91663**	**1.08**	**176651**	**0.130288**	0	3463	no	1.18	66
	408	33.42	84989	yes				2495			
187 PCB 189L	**406**	**36.85**	**247134**	**1.04**	**484237**	**0.195376**	0	3952	no	2.157	99
	408	36.83	237103	yes				5527			
188 PCB 202L	**440**	**29.25**	**89332**	**0.91**	**187404**	**0.114916**	0	4079	no	1.419	58
	442	29.27	98072	yes				3460			
189 PCB 205L	**440**	**39.73**	**137142**	**0.91**	**287725**	**0.163544**	0	1397	no	1.531	83
	442	39.73	150582	yes				2477			
190 PCB 208L	**474**	**36.29**	**78459**	**0.79**	**177388**	**0.135506**	0	2197	no	1.139	68
	476	36.28	98928	yes				2947			
191 PCB 206L	**474**	**41.71**	**58559**	**0.76**	**135228**	**0.154964**	0	1588	no	0.76	78
	476	41.73	76670	yes				2164			
192 PCB 209L	**510**	**43.56**	**72088**	**1.21**	**131791**	**0.158371**	0	6858	no	0.724	80
	512	43.53	59703	yes				2659			
193 PCB 28L	**268**	**14.41**	**434392**	**1.08**	**834885**	**0.295371**	0.001	672	no	2.039	134
PCB Cleanup Standard	270	14.43	400493	yes				999			
194 PCB 111L	**338**	**21.85**	**224307**	**1.65**	**360396**	**0.223309**	0	6955	no	1.343	102
PCB Cleanup Standard	340	21.84	136089	yes				3980			
195 PCB 178L	**406**	**27.00**	**84338**	**1.04**	**165811**	**0.196566**	0	3229	no	0.733	89
PCB Cleanup Standard	408	26.97	81473	yes				3186			
196 PCB 31L	268	NotFnd	*	*	*		0.001		no	1.934	
PCB Audit Standard	270	14.26	*	no							
197 PCB 95L	338	NotFnd	*	*	*		0		no	0.946	
PCB Audit Standard	340	17.73	*	no							
198 PCB 153L	**372**	**25.41**	**3301**	**1.18**	**6100**	**0.004326**	0	69	no	1.225	2
PCB Audit Standard	374	25.40	2799	yes				89			
199 PCB 9L	**234**	**11.18**	**2441389**	**1.66**	**3914287**	**9.22816**	-	5913	no	-	-
PCB Recovery Standard	236	11.19	1472898	yes				12501			
200 PCB 52L	**302**	**15.36**	**679579**	**0.8**	**1525962**	**6.857301**	-	8605	no	-	-
PCB Recovery Standard	304	15.36	846383	yes				19772			
201 PCB 101L	**338**	**19.77**	**816399**	**1.61**	**1322965**	**7.378356**	-	27037	no	-	-
PCB Recovery Standard	340	19.76	506566	yes				15819			
202 PCB 138L	**372**	**26.57**	**718157**	**1.31**	**1267098**	**7.838556**	-	14129	no	-	-
PCB Recovery Standard	374	26.56	548940	yes				17581			
203 PCB 194L	**440**	**39.18**	**609100**	**0.93**	**1264868**	**9.392273**	-	6118	no	-	-
PCB Recovery Standard	442	39.17	655767	yes				10736			

Chlorobiphenyls	-0.00074	0	-0.00074
Dichlorobiphenyls	0.048229	5	-0.00136
Trichlorobiphenyls	0.234982	14	-0.00112
Tetrachlorobiphenyls	0.285204	17	-0.00218
Pentachlorobiphenyls	0.224424	16	-0.00133
Hexachlorobiphenyls	0.236334	17	-0.00162
Heptachlorobiphenyls	0.049027	8	-0.00205
Octachlorobiphenyls	0.003051	2	-0.00167
Nonachlorobiphenyls	-0.00084	0	-0.00084
Decachlorobiphenyl	-0.00091	0	-0.00091
PCB (total)	1.081251		

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Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

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Vial: 5
Date: 19-FEB-2016
Time: 15:28:13
Instrument: Autospec-UltimaE

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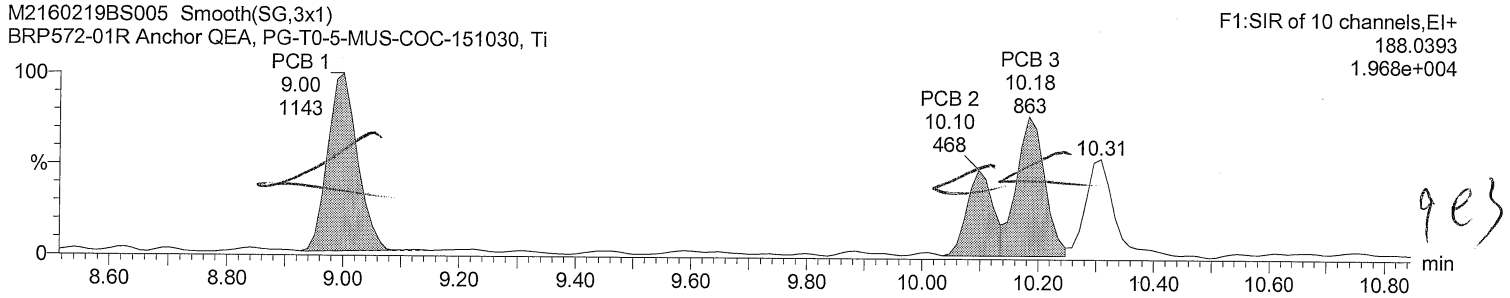

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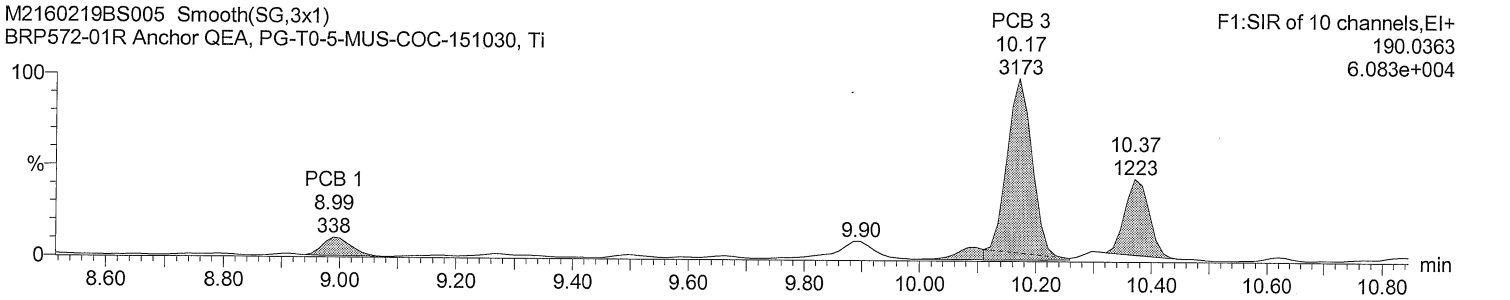

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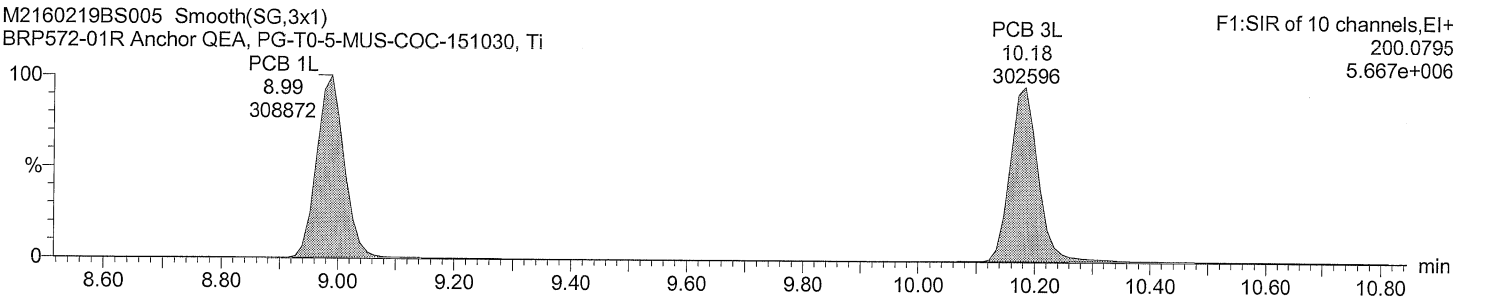

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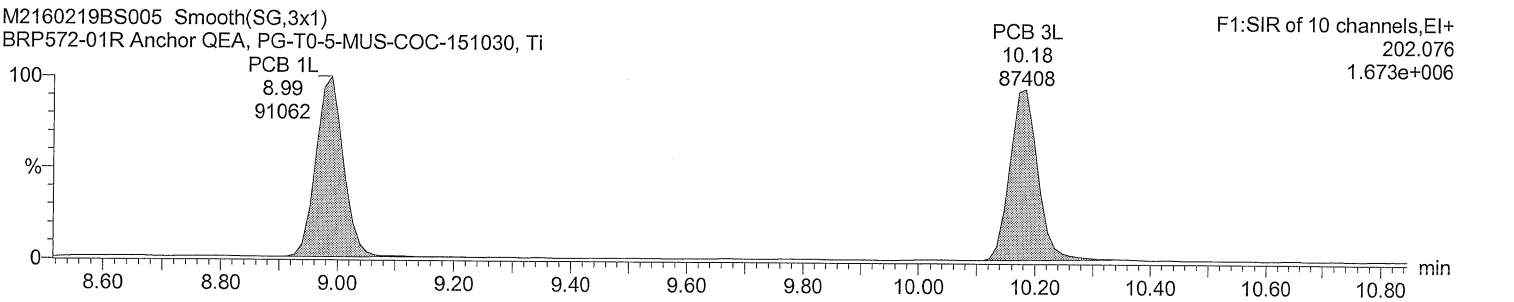

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PCB 4

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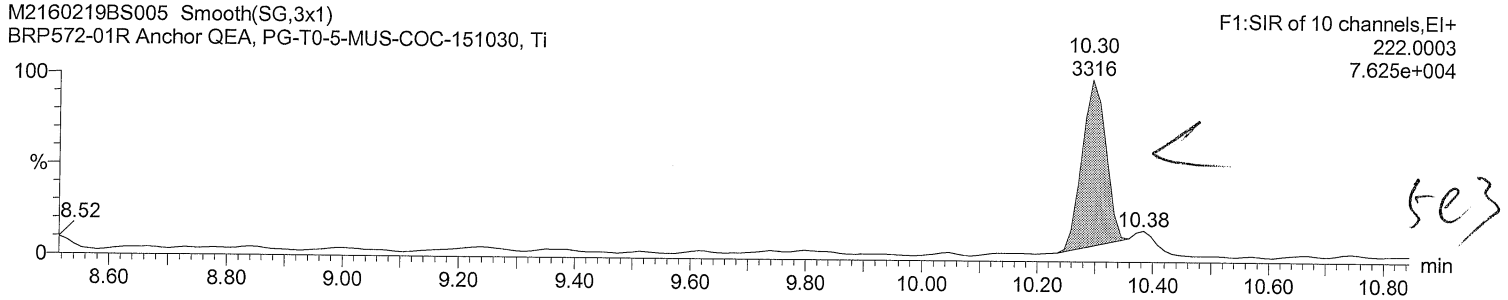
BRP572-01R Anchor QEA, PG-T0-5-MUS-COC-151030, Ti



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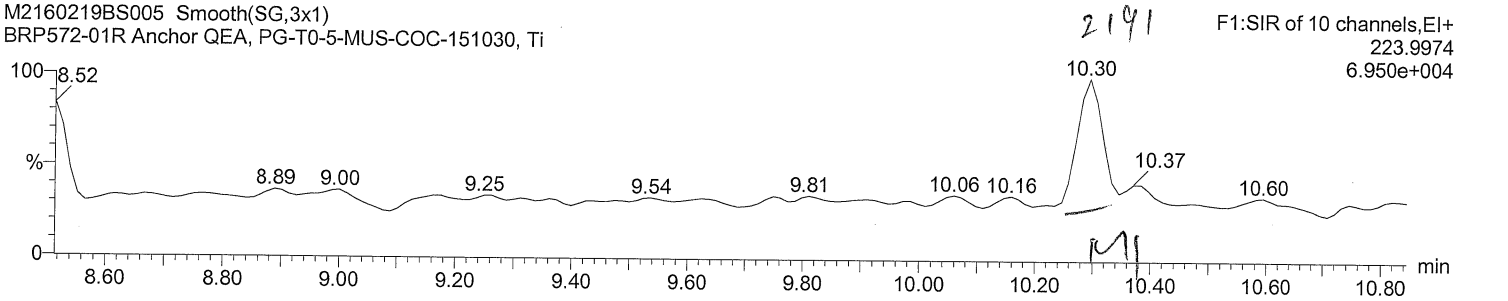

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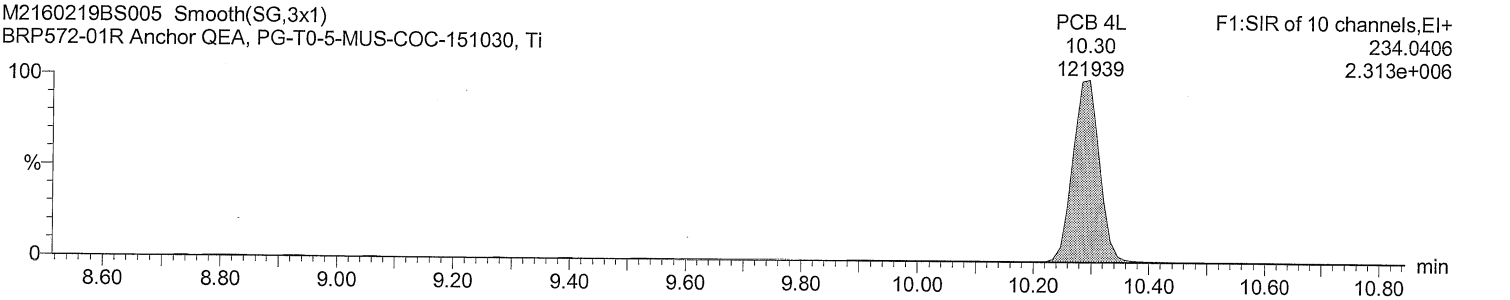

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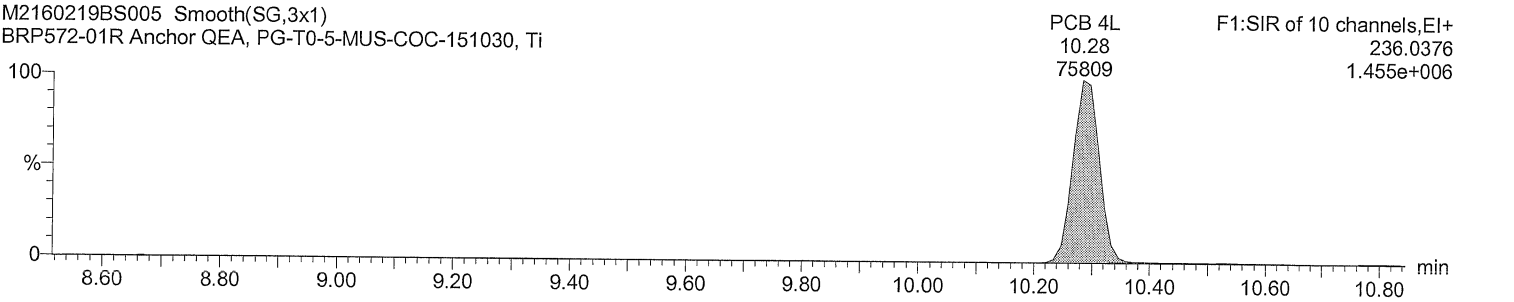

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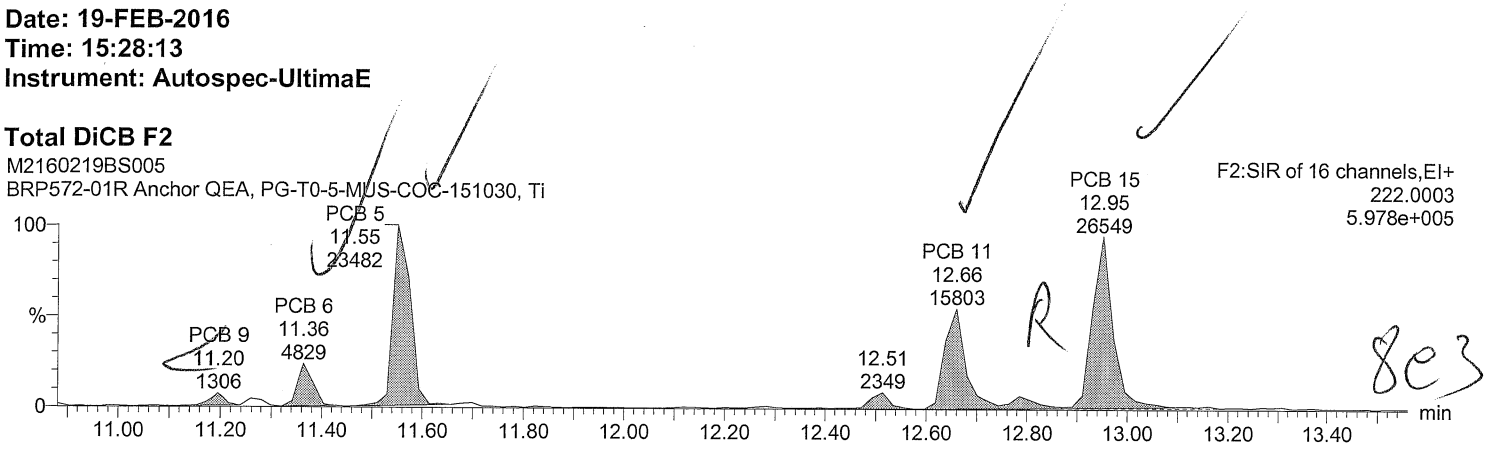

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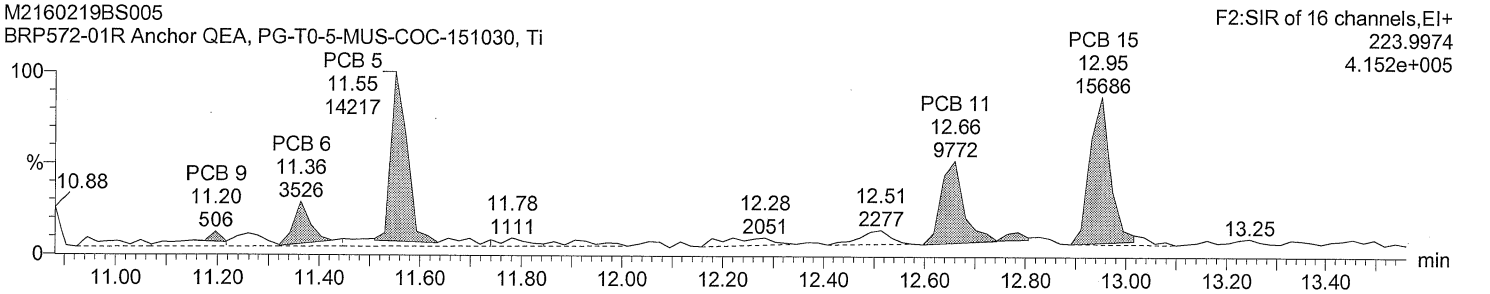

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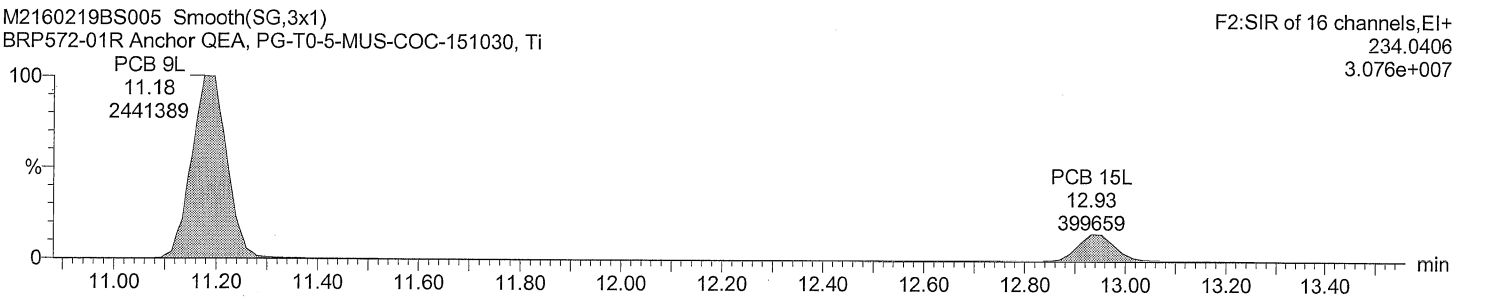

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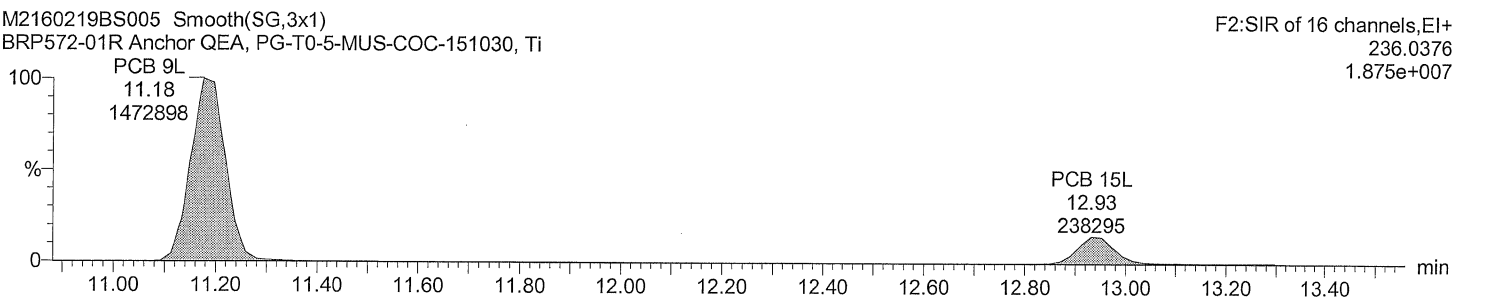

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Instrument: Autospec-UltimaE

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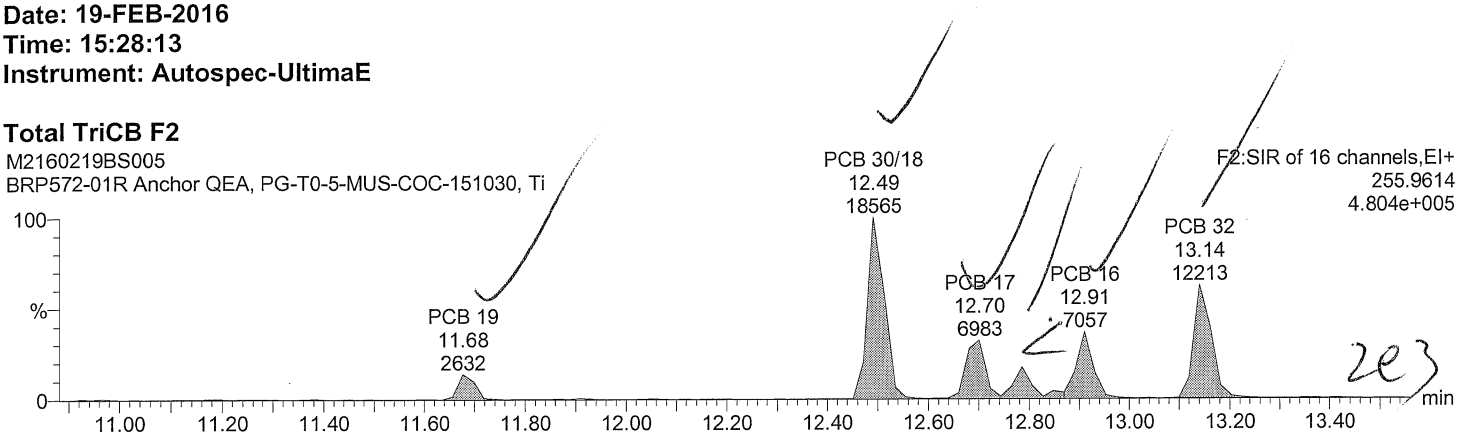

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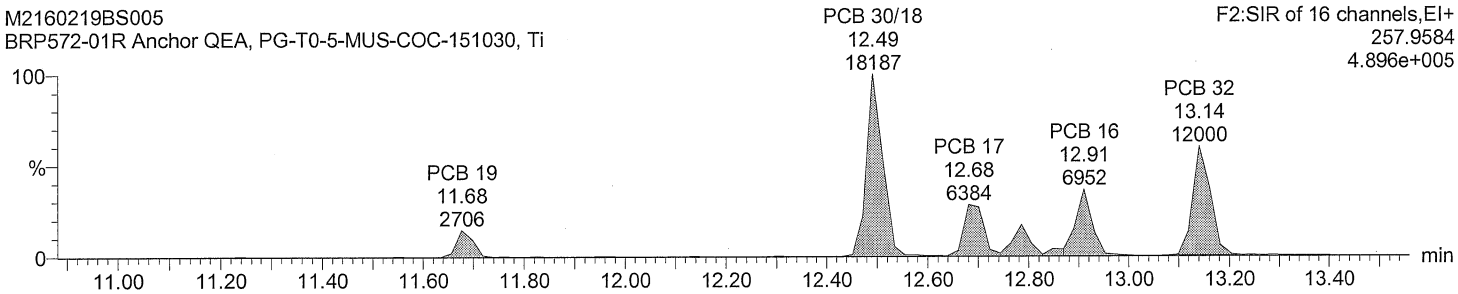

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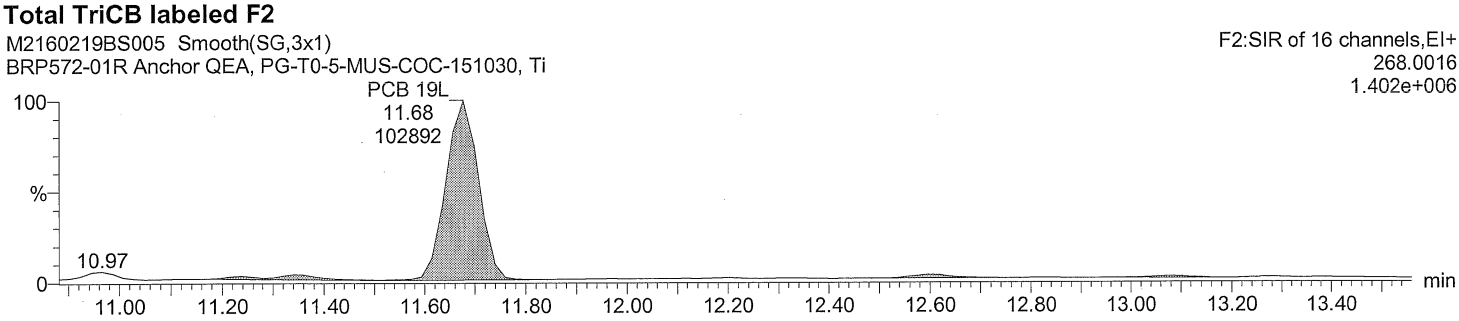

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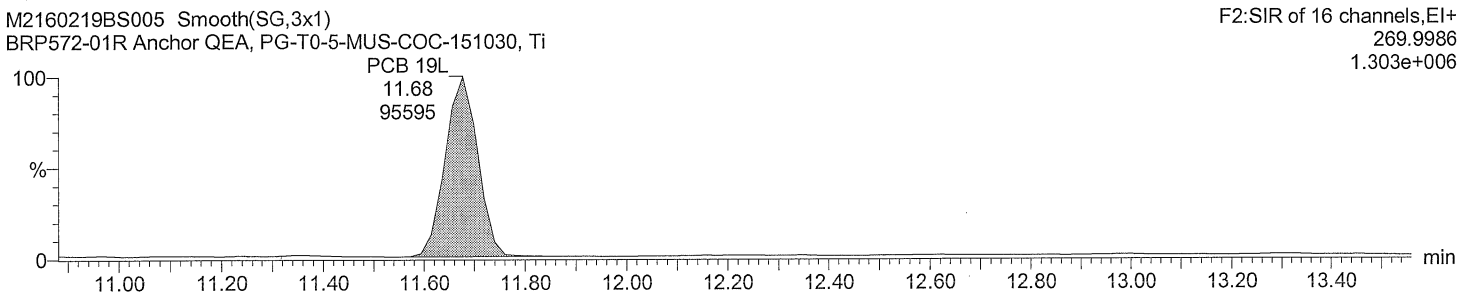

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Instrument: Autospec-UltimaE

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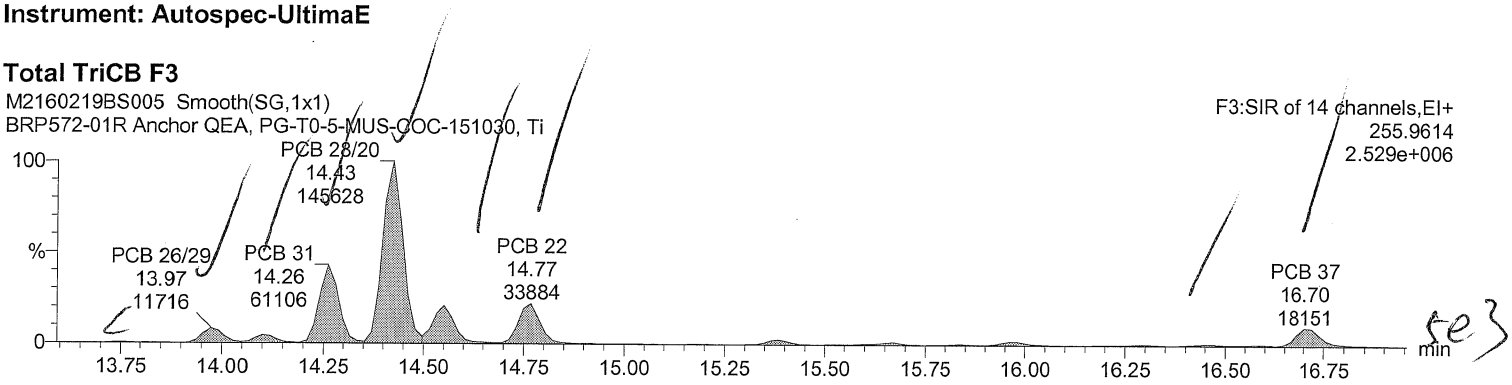

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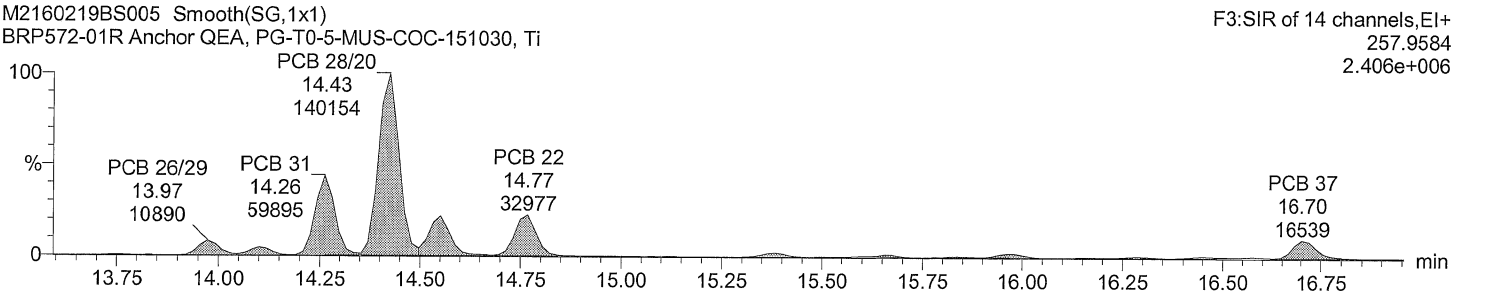

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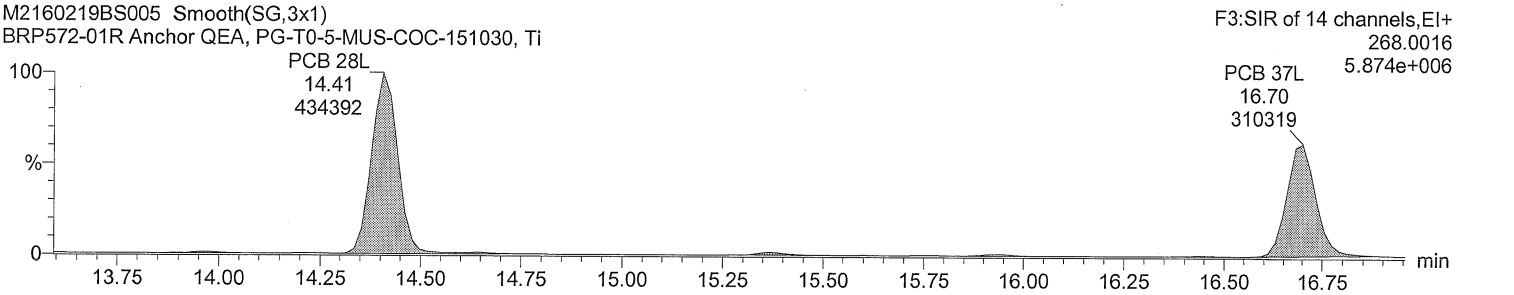

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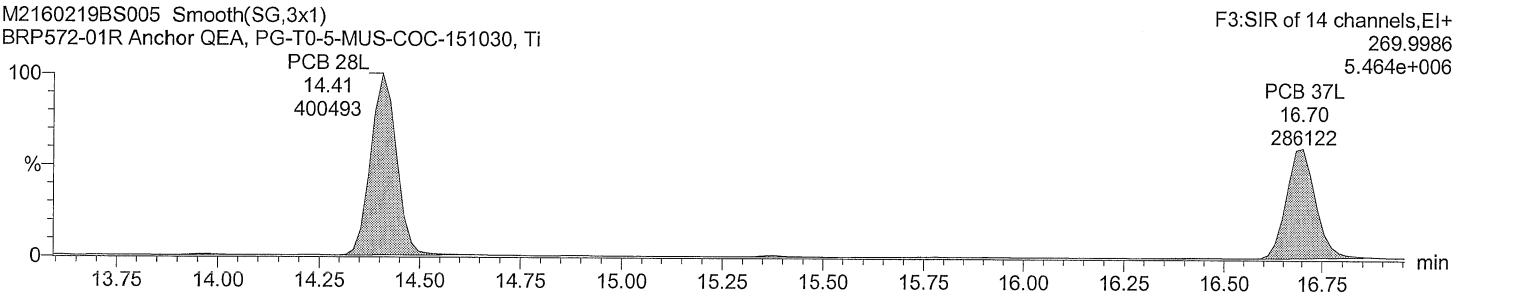

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Instrument: Autospec-UltimaE

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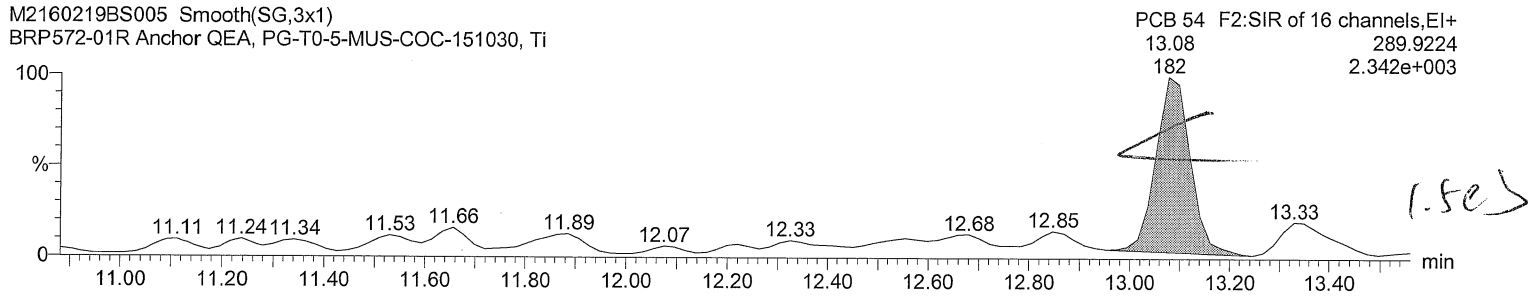

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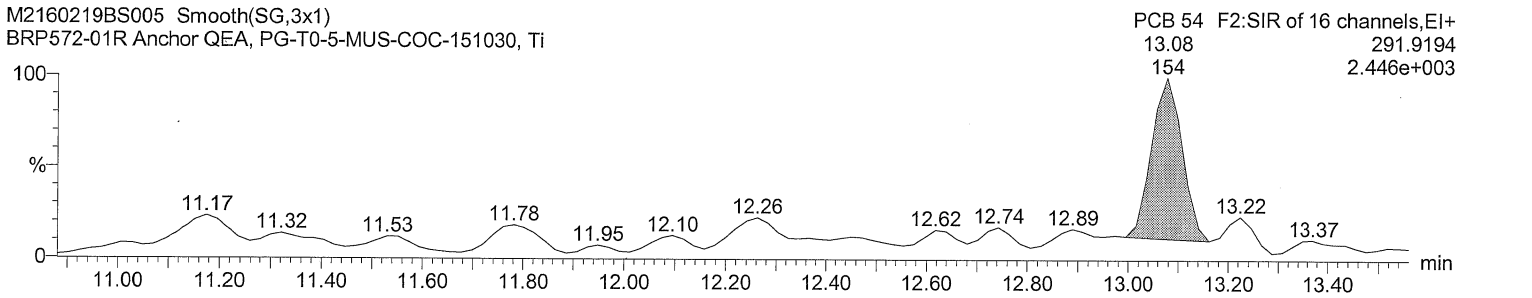

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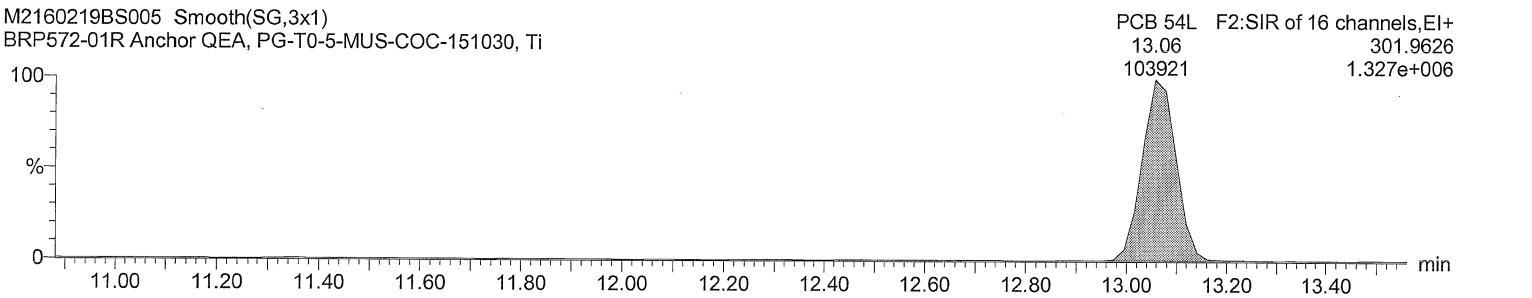

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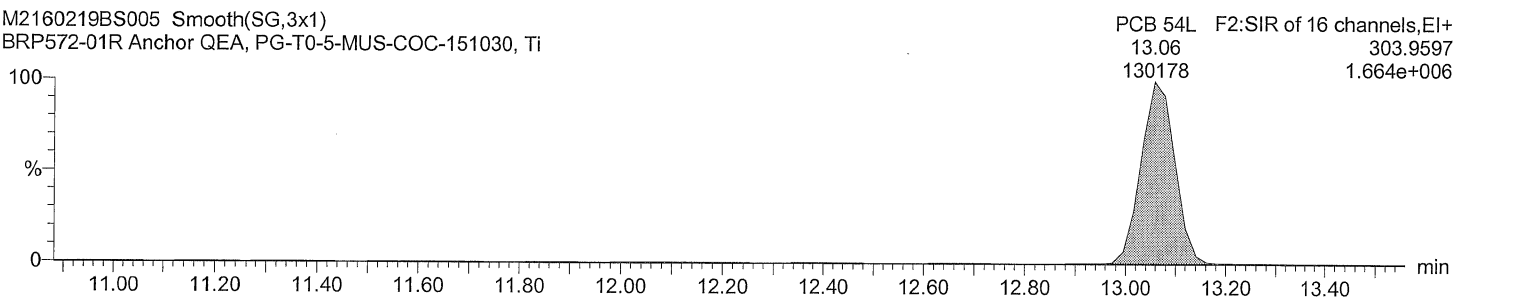

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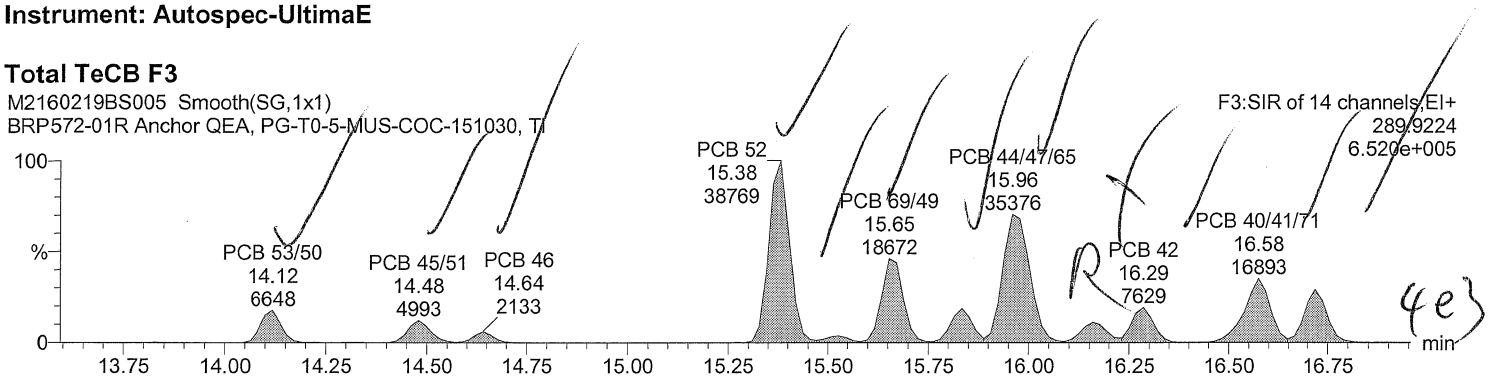

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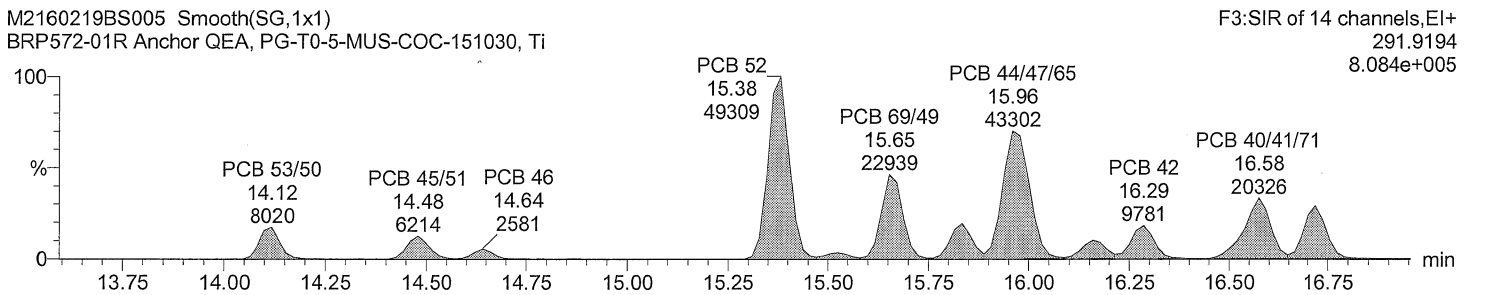

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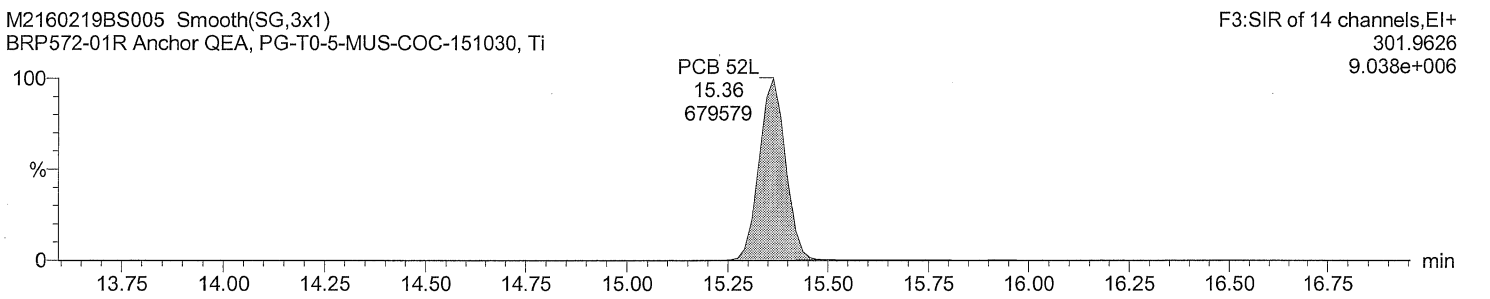

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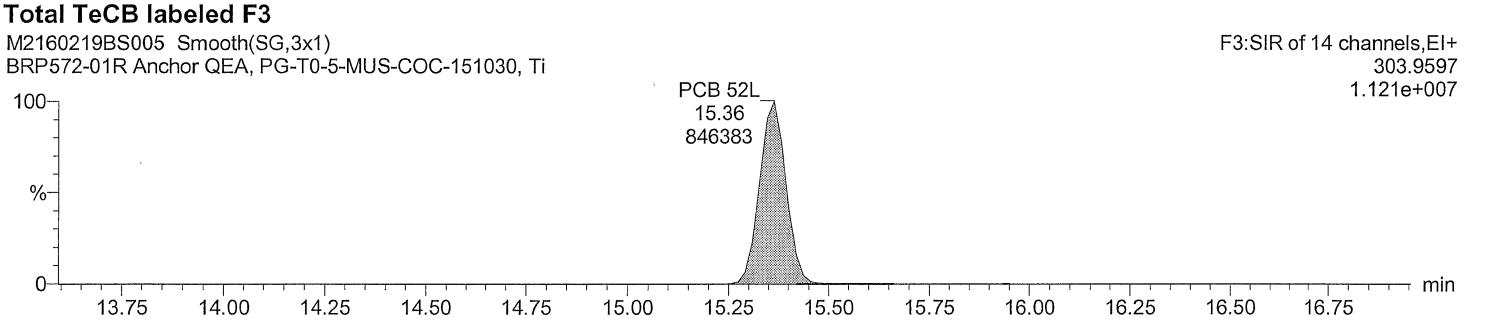

Dataset: C:\MassLynx\Default.pro\QLD\M2160219_samples_1668A.qld

Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

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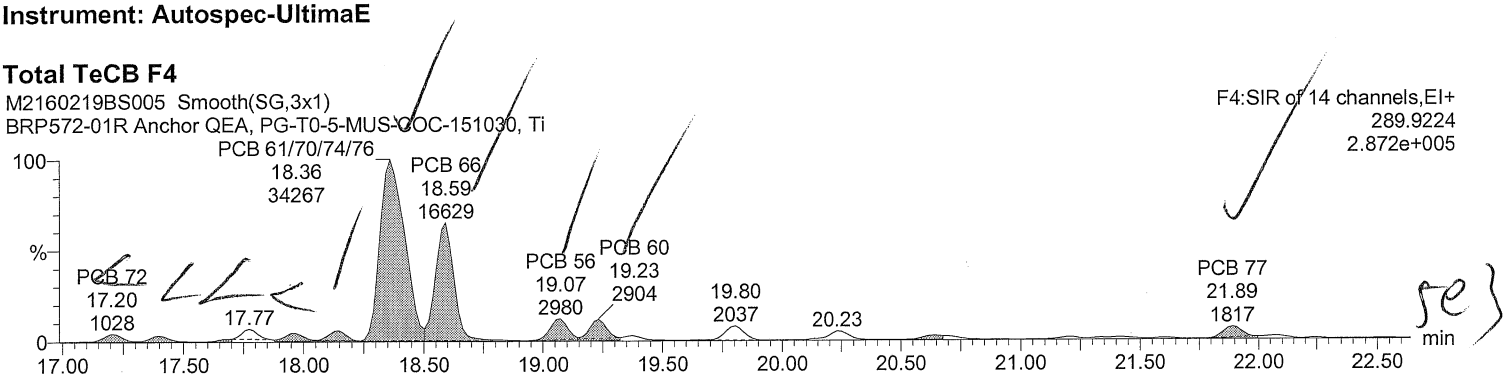
Vial: 5
Date: 19-FEB-2016
Time: 15:28:13
Instrument: Autospec-UltimaE

Total TeCB F4



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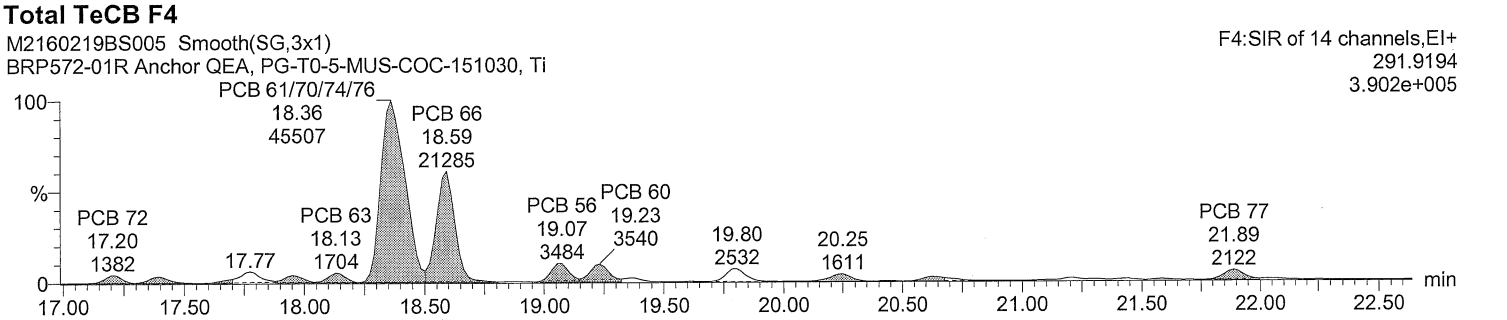

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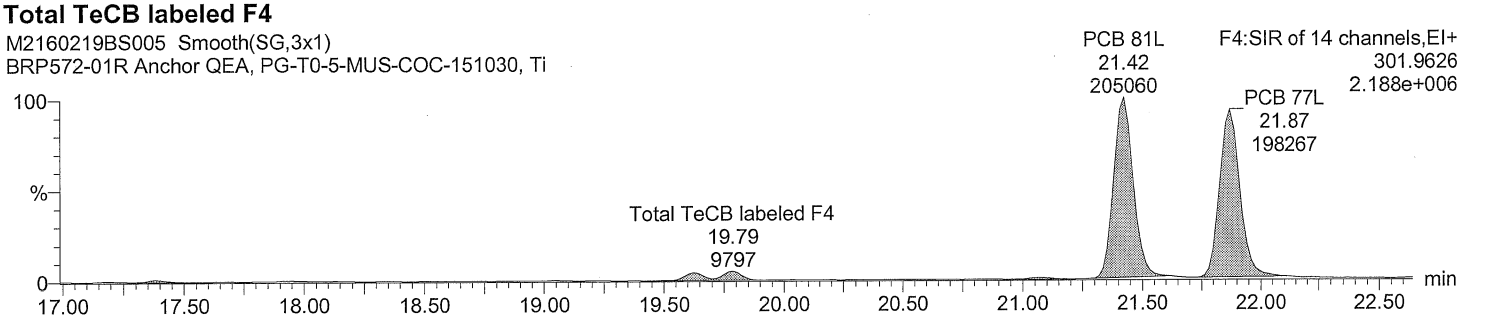

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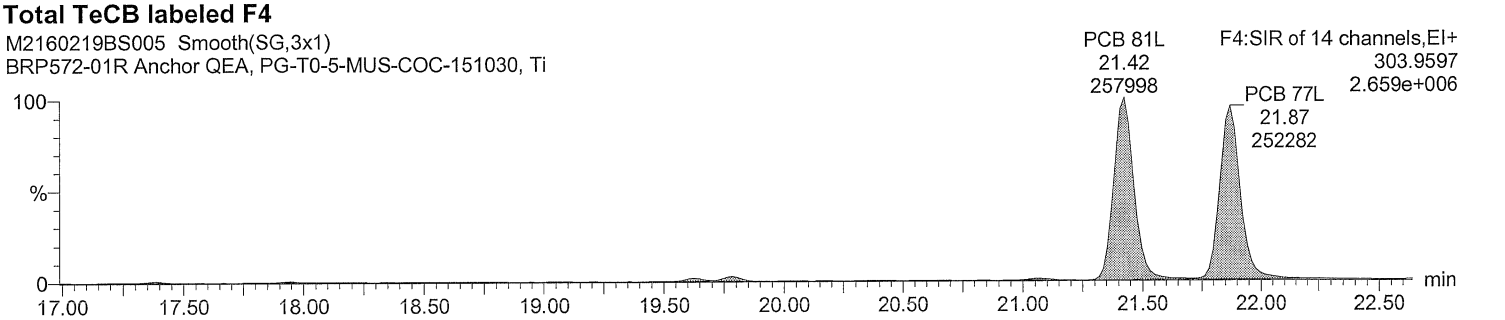

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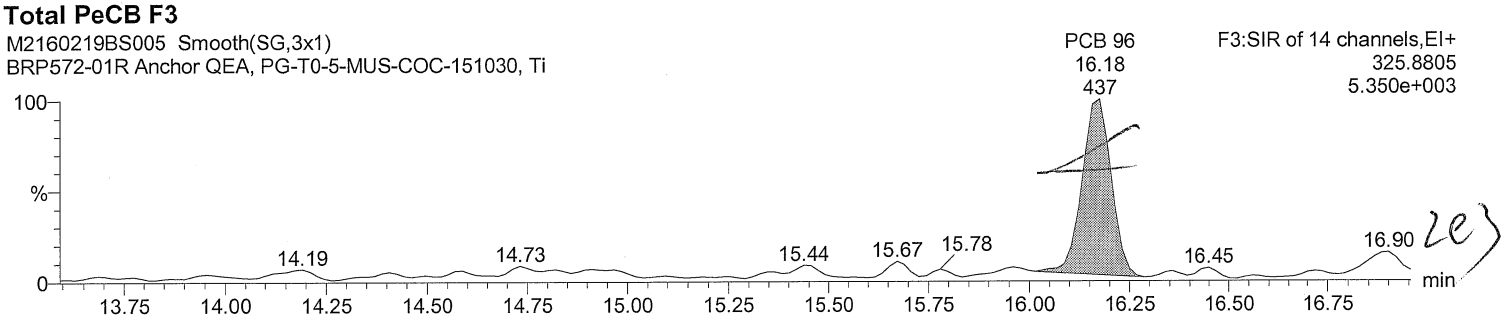

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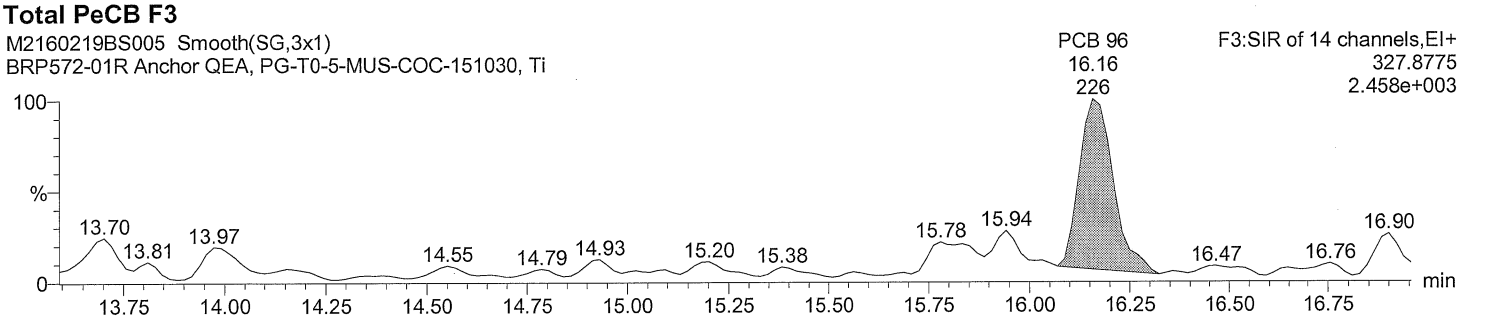

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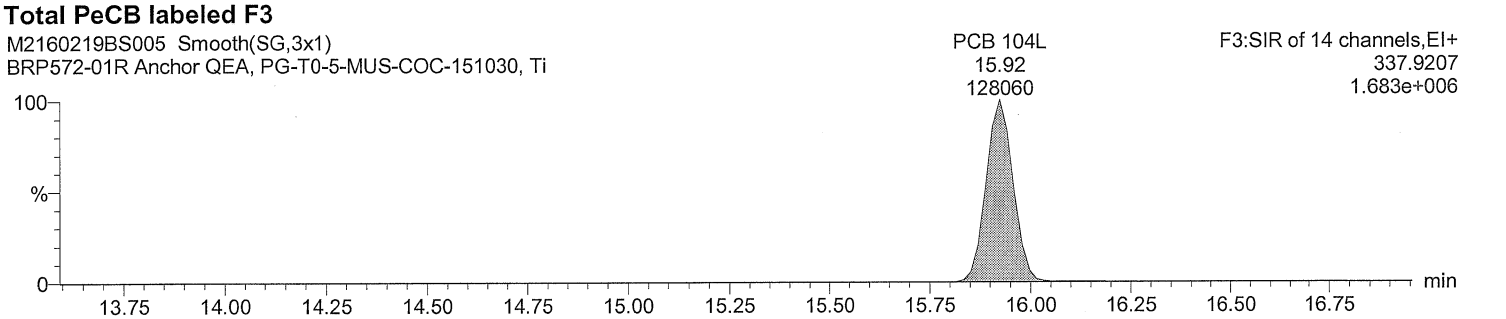

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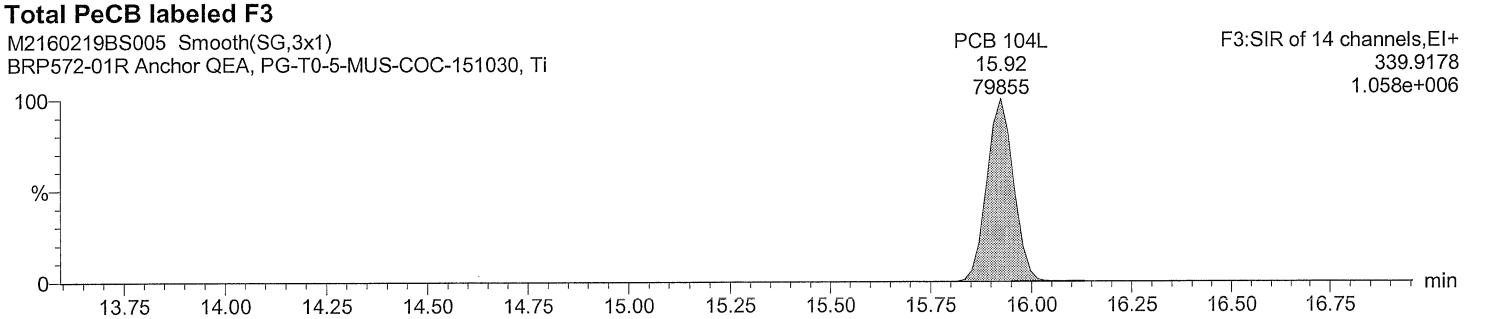

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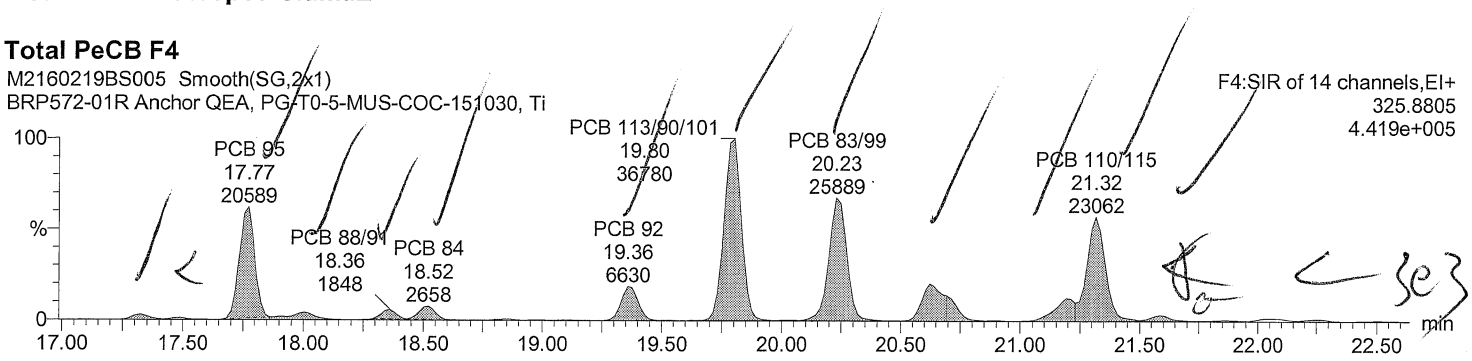

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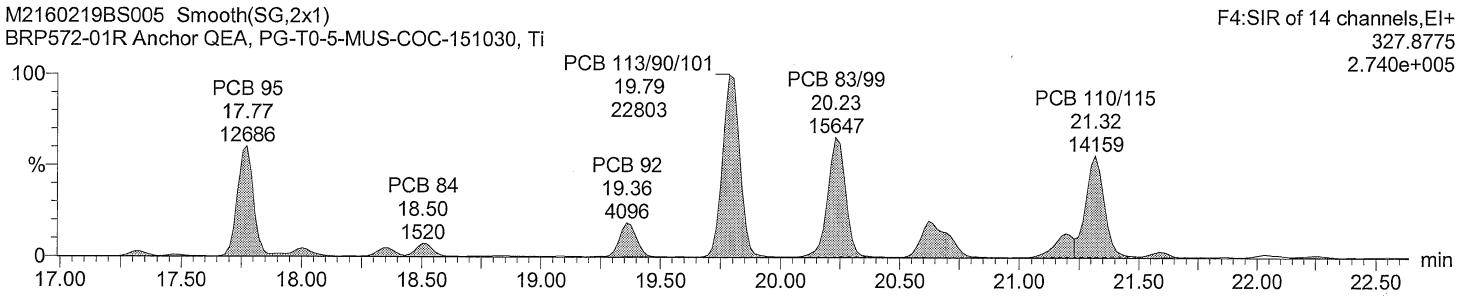

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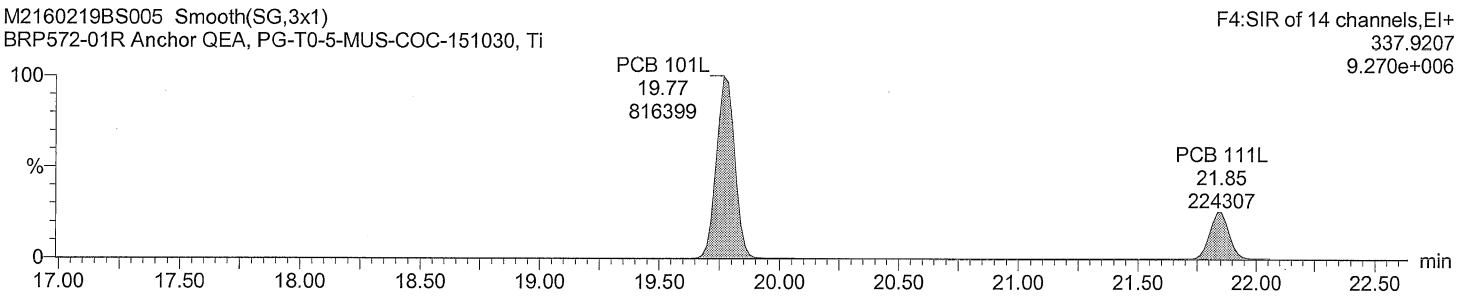

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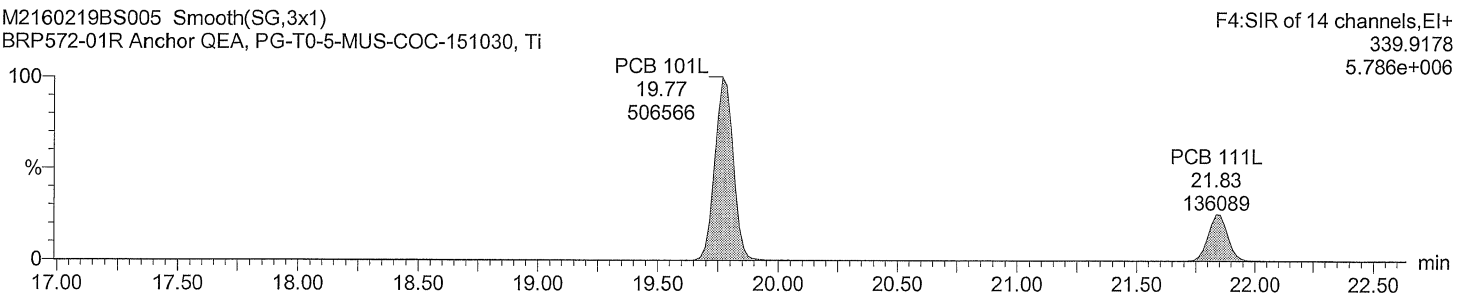

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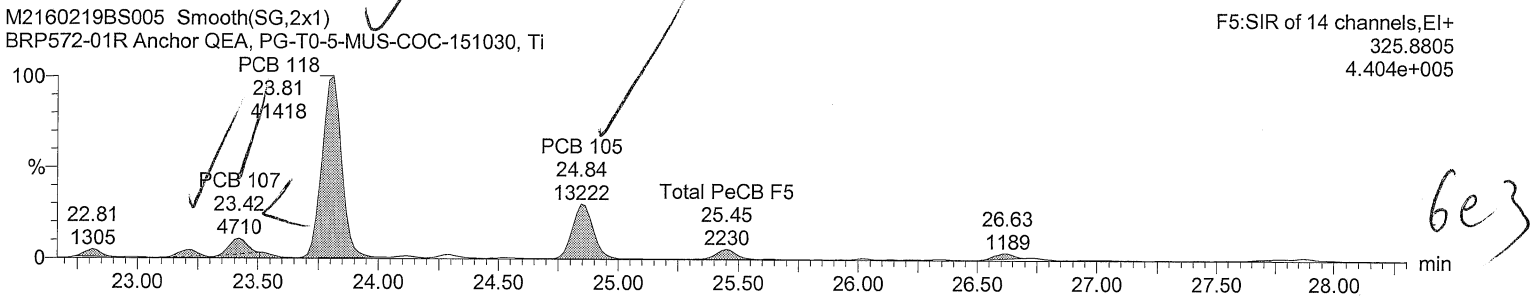

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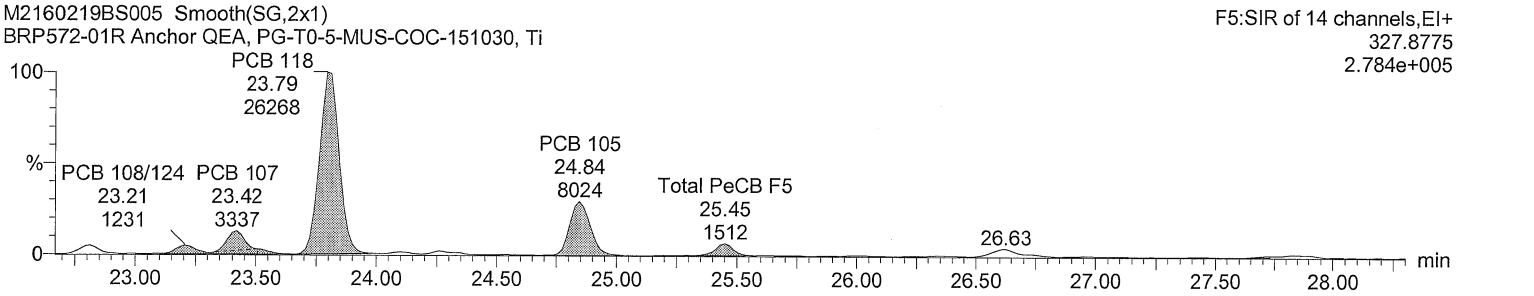

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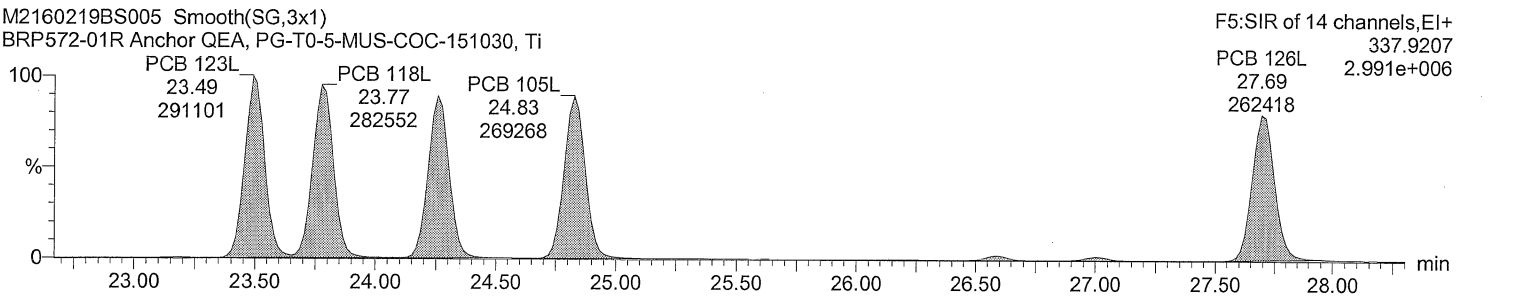

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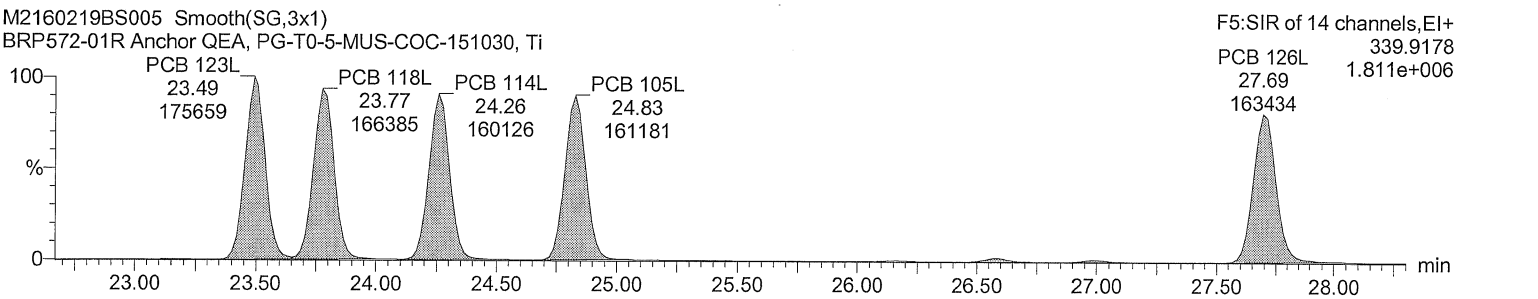

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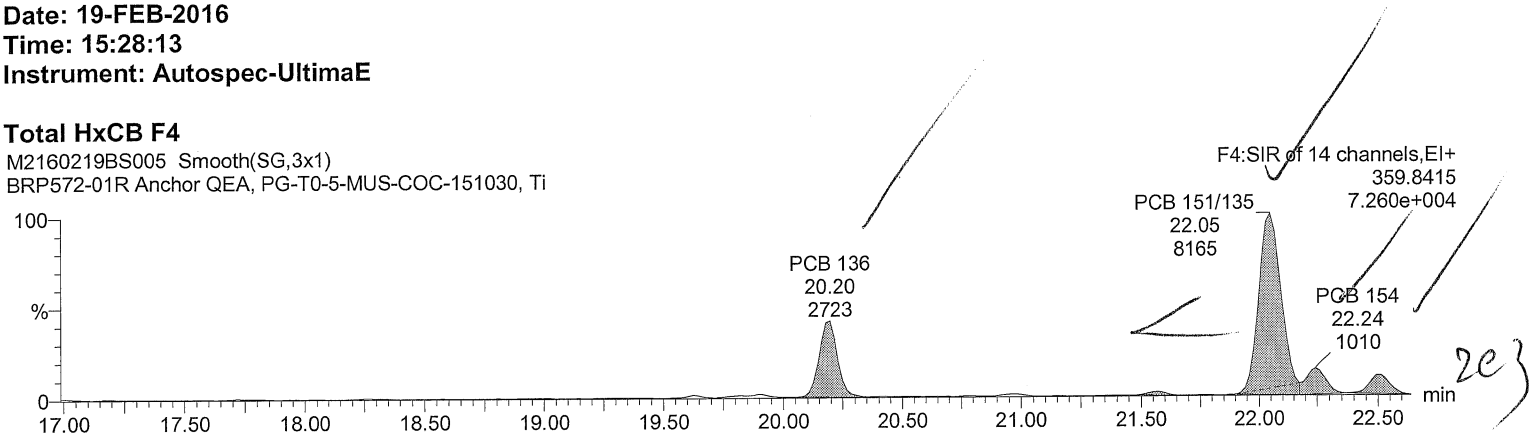

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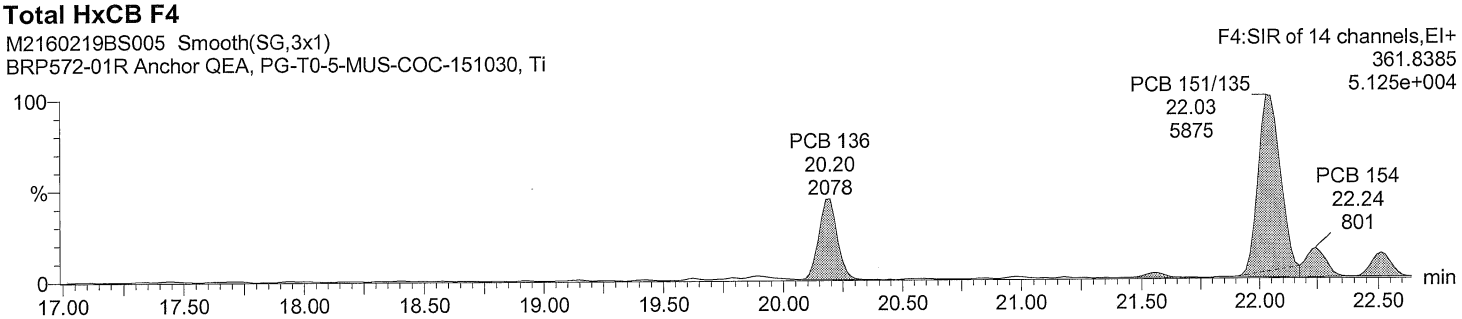

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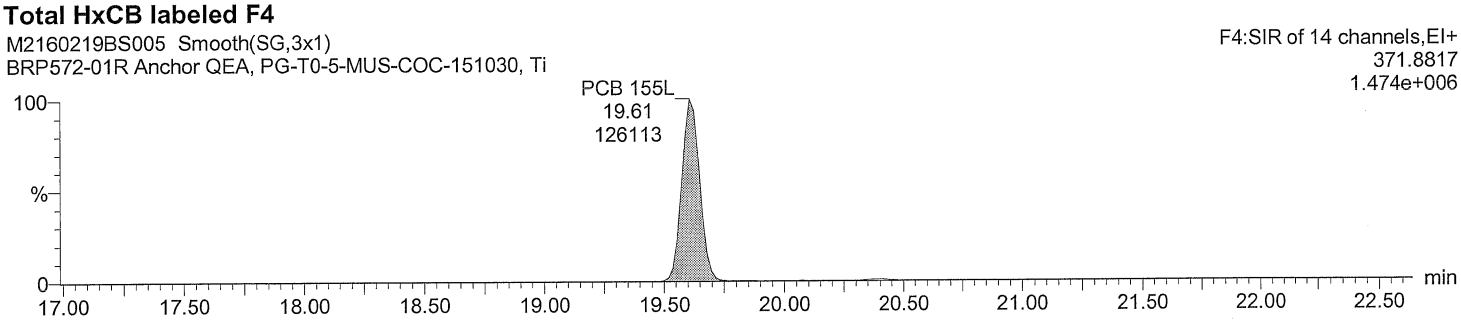

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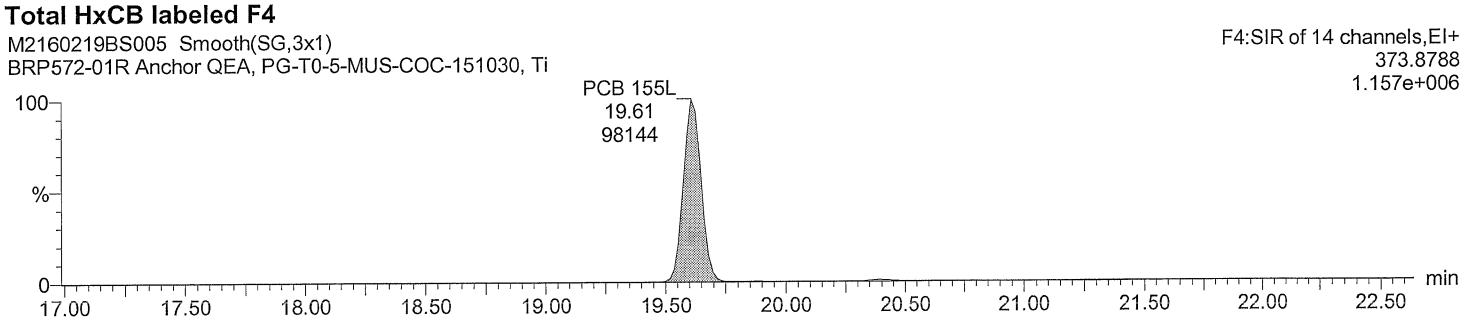

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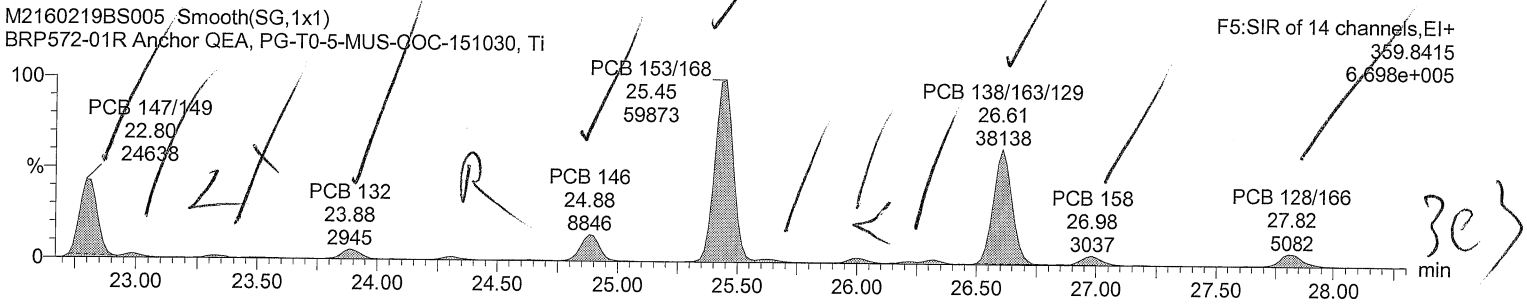

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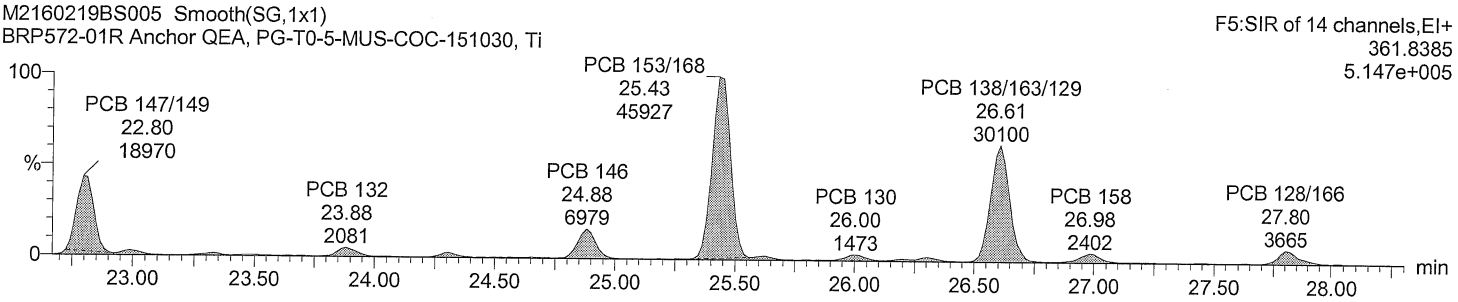

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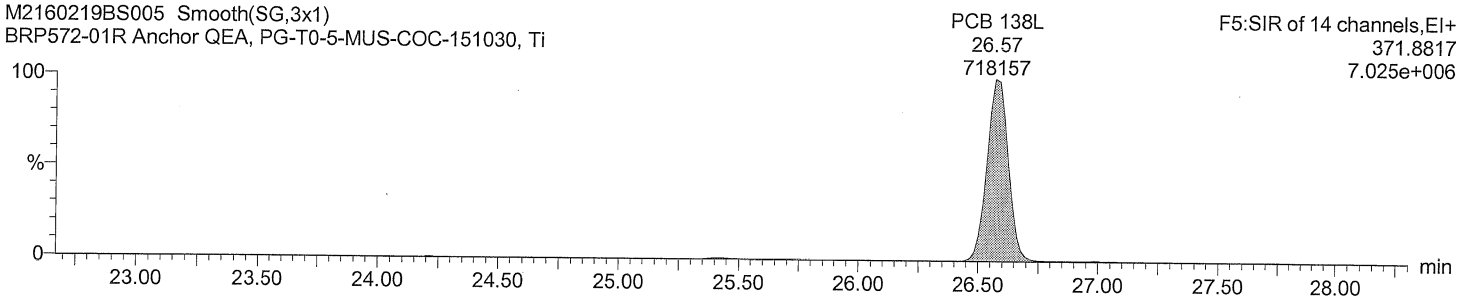

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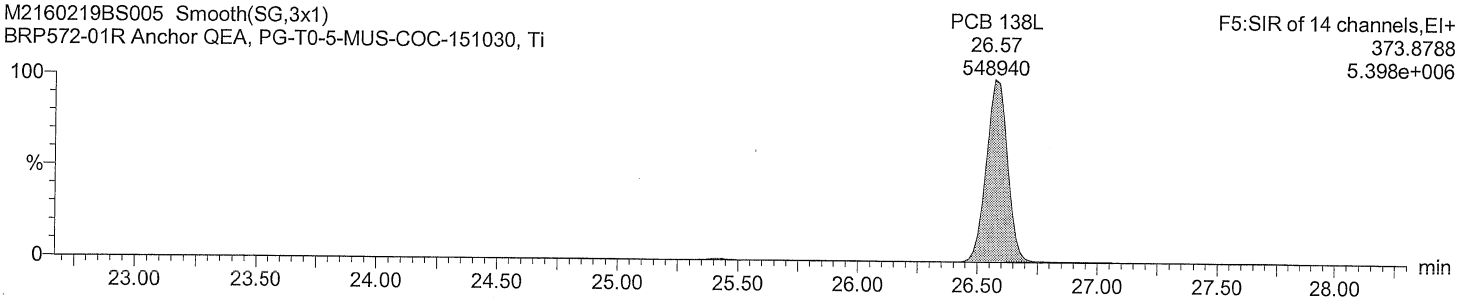

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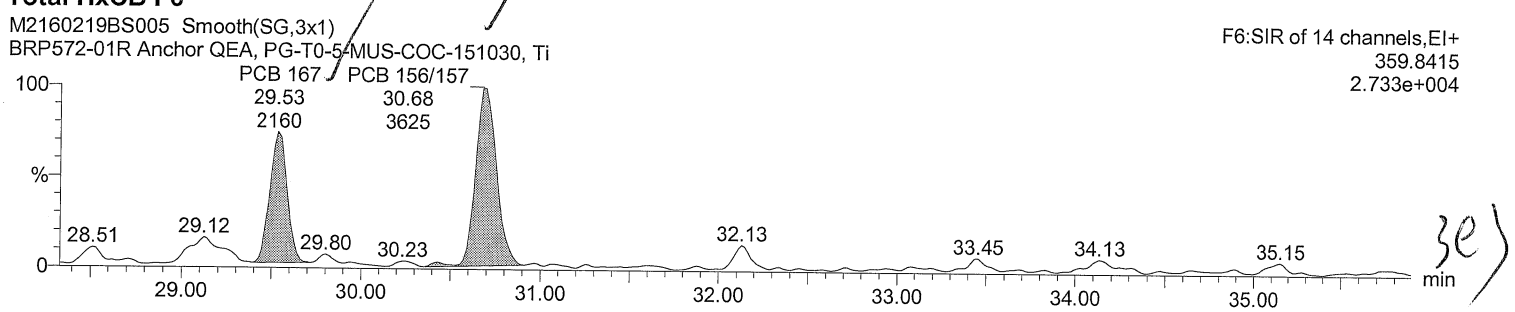

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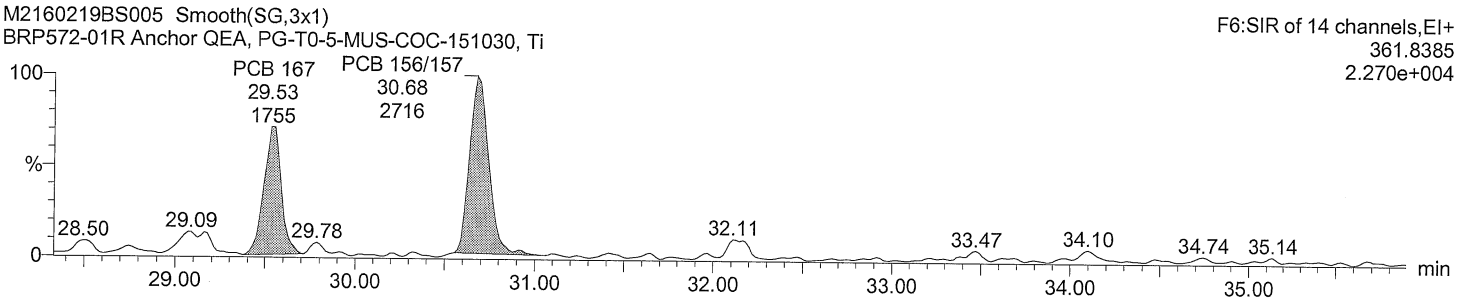

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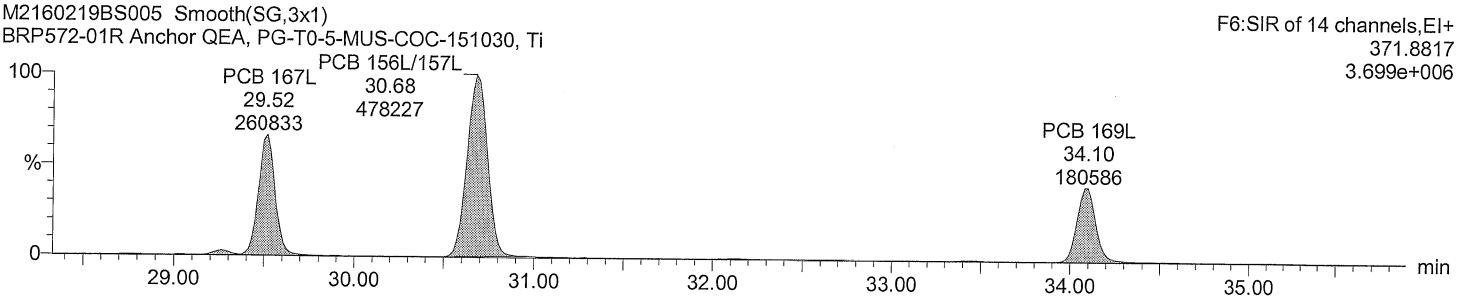

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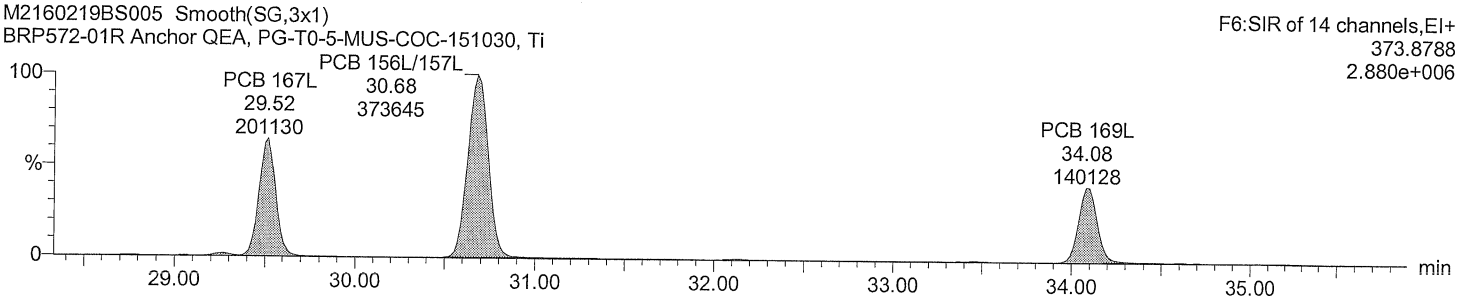

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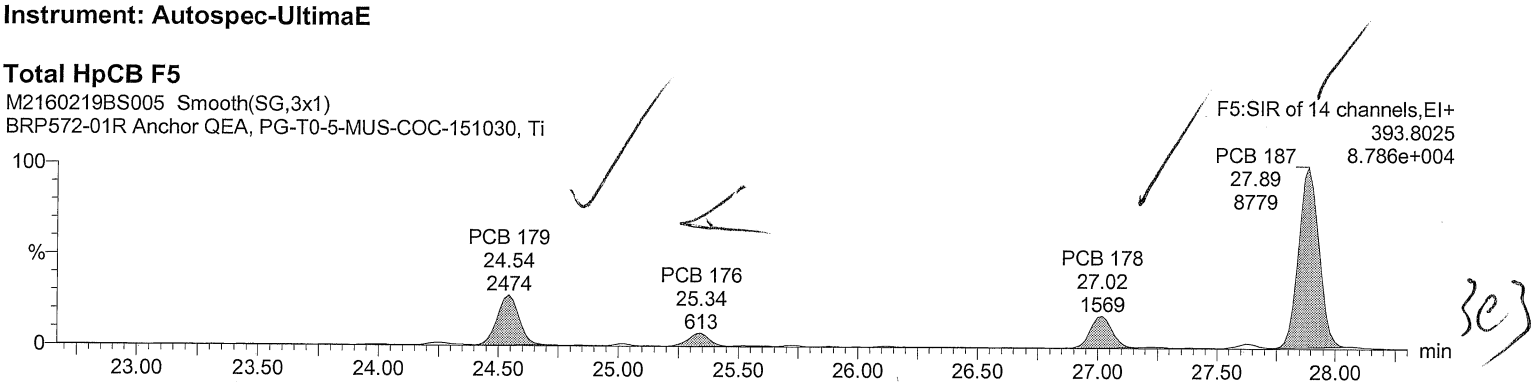

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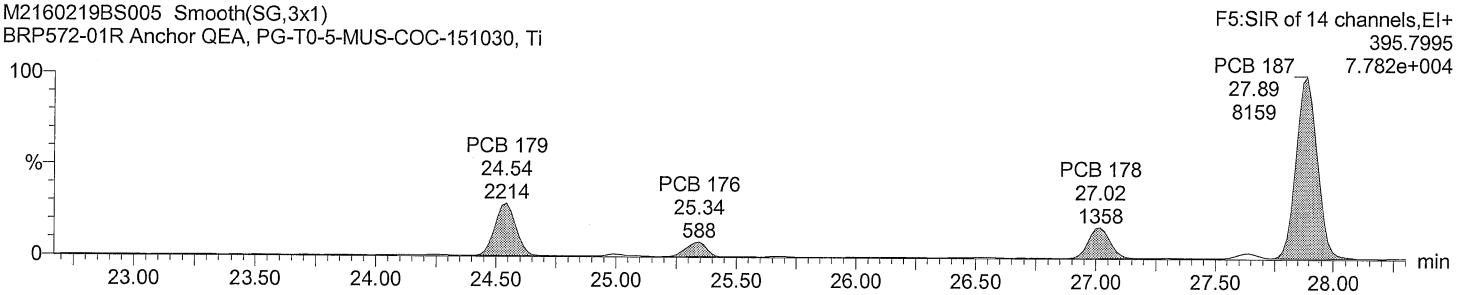

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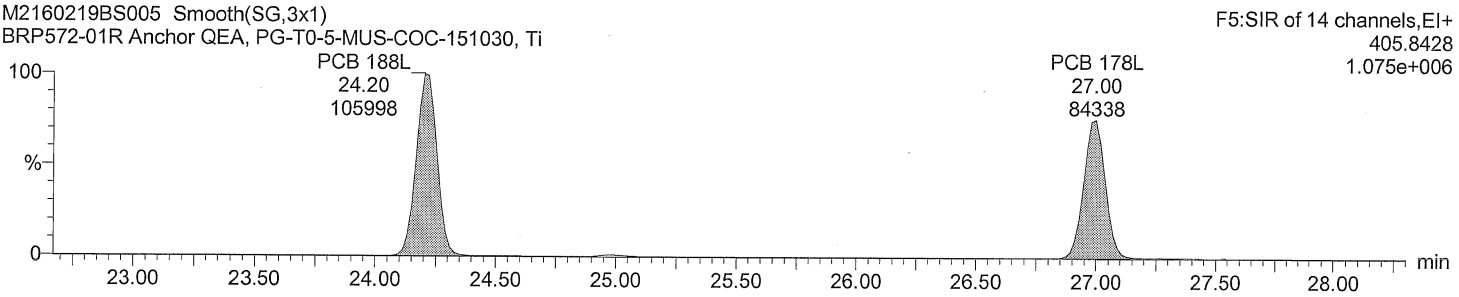

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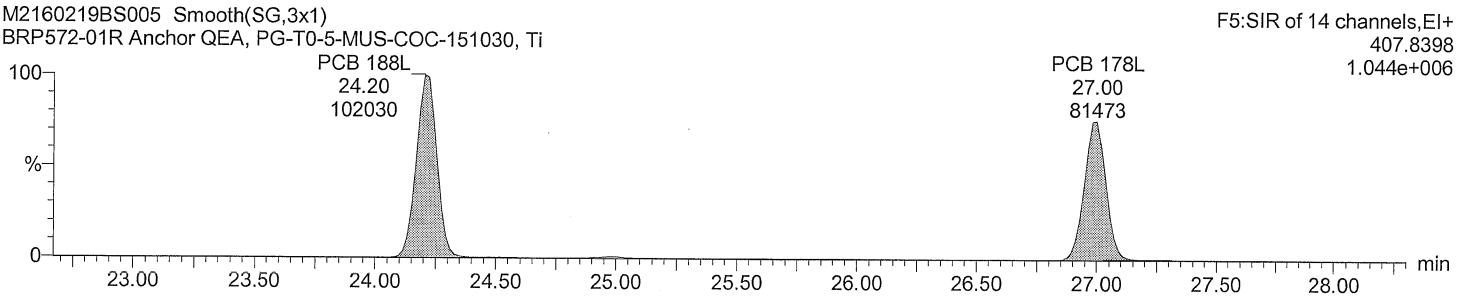

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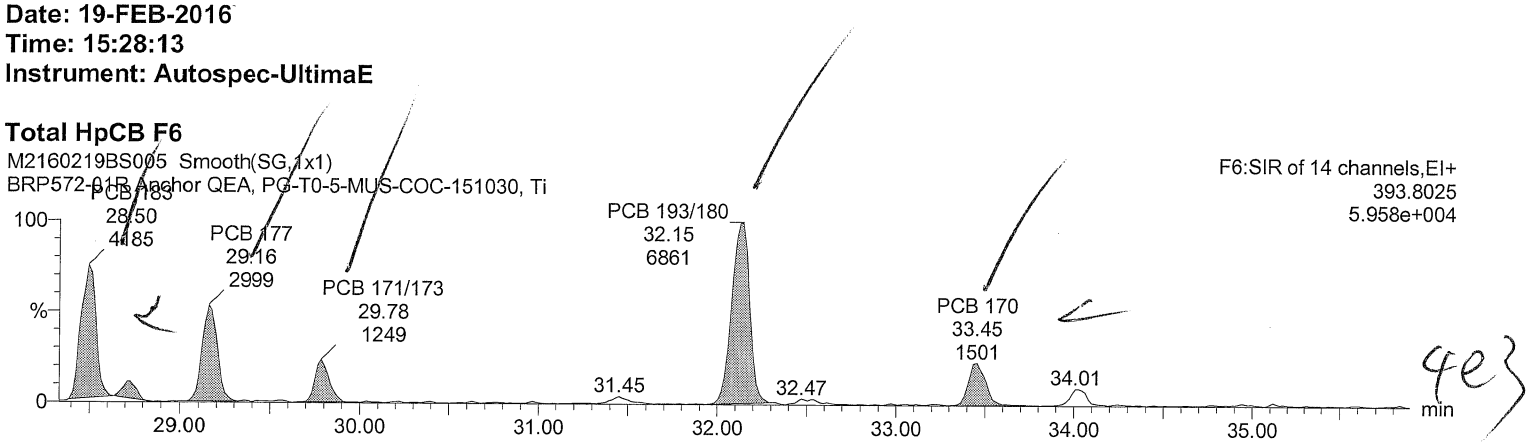

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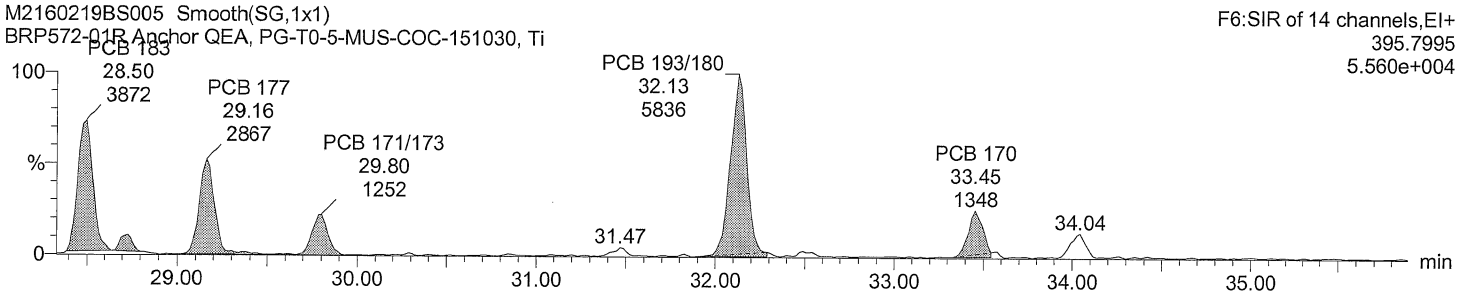

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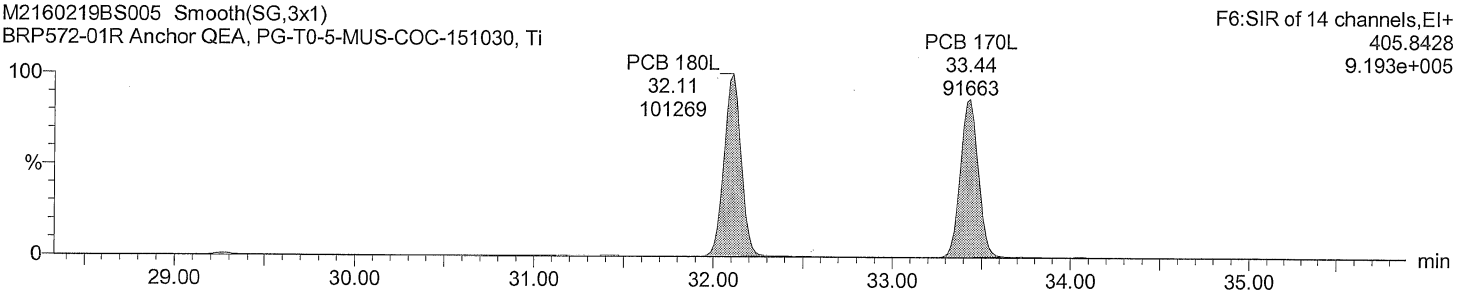

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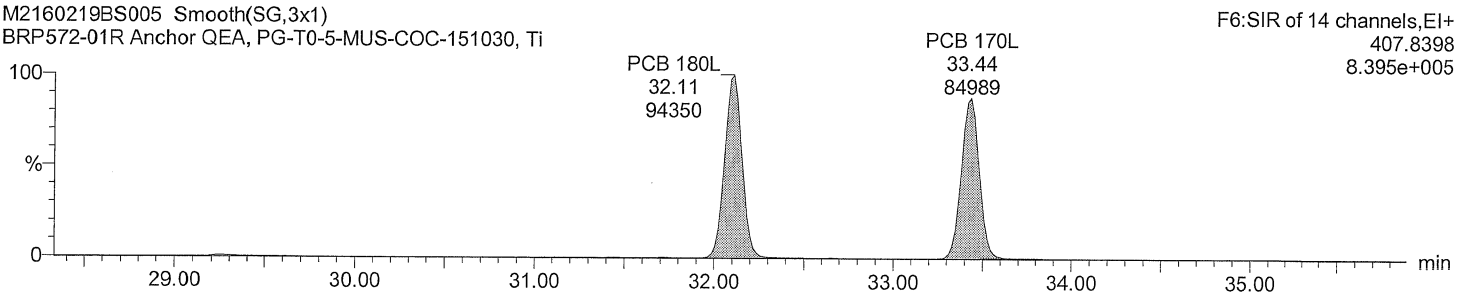

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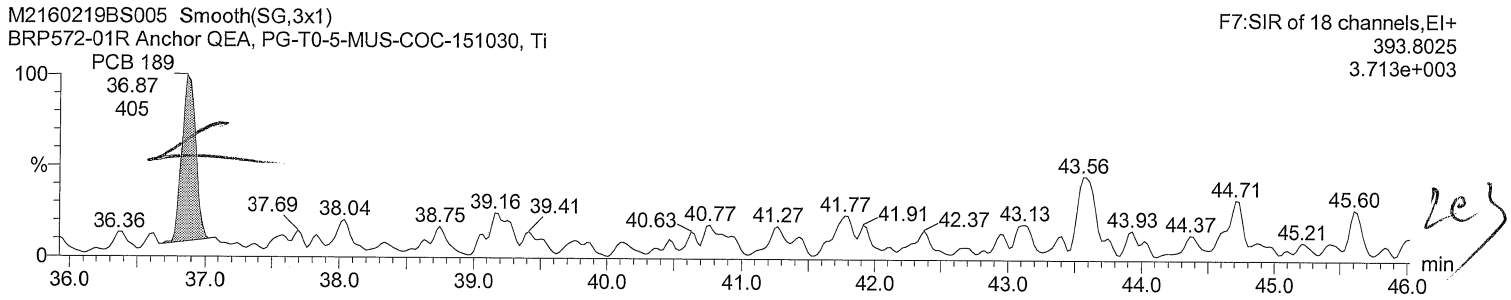

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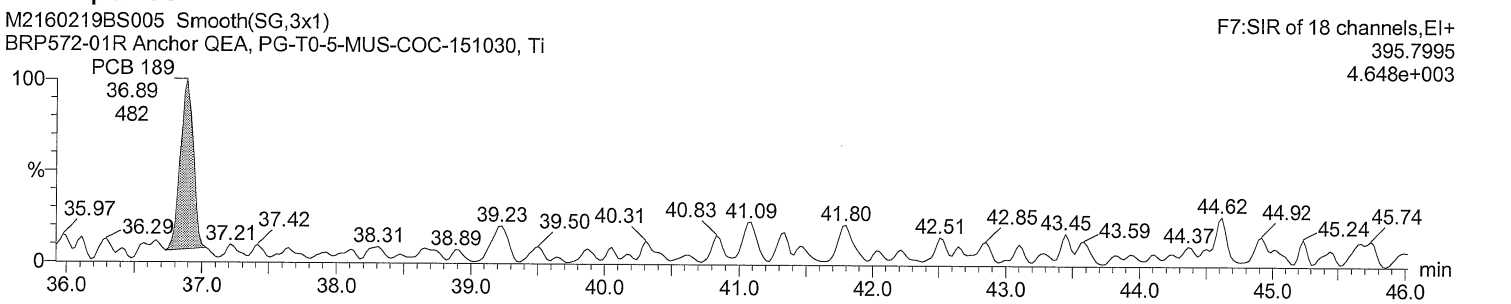

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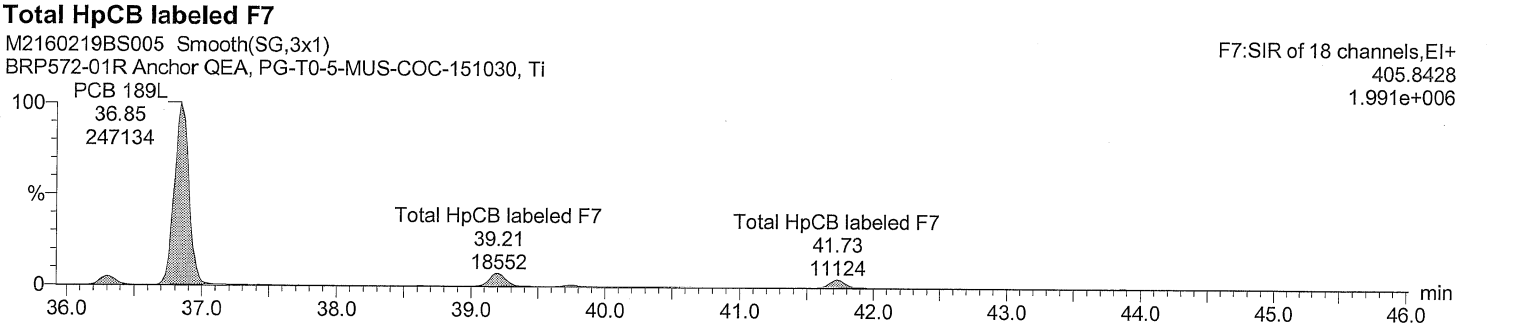

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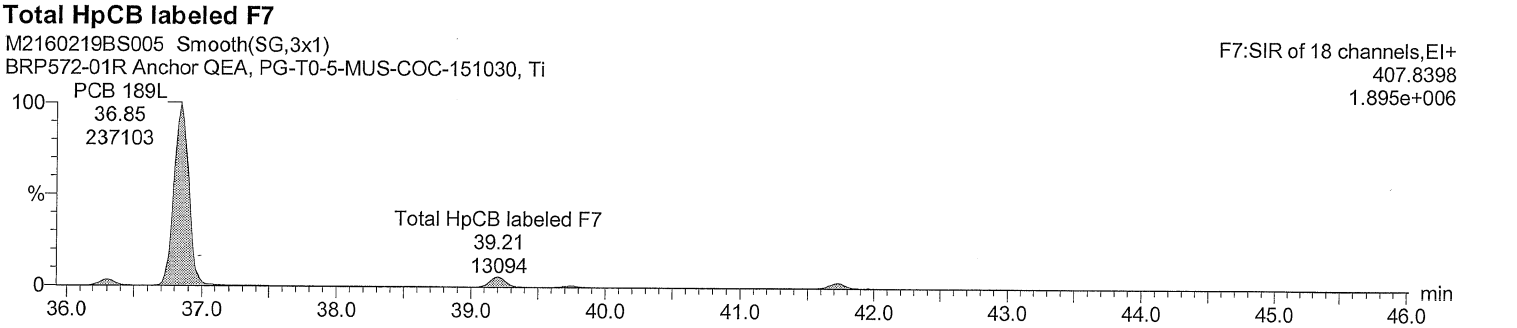

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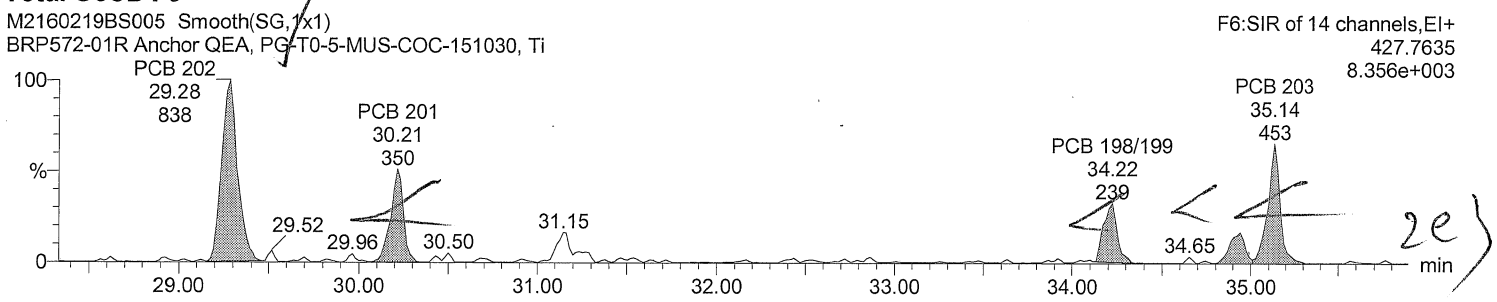

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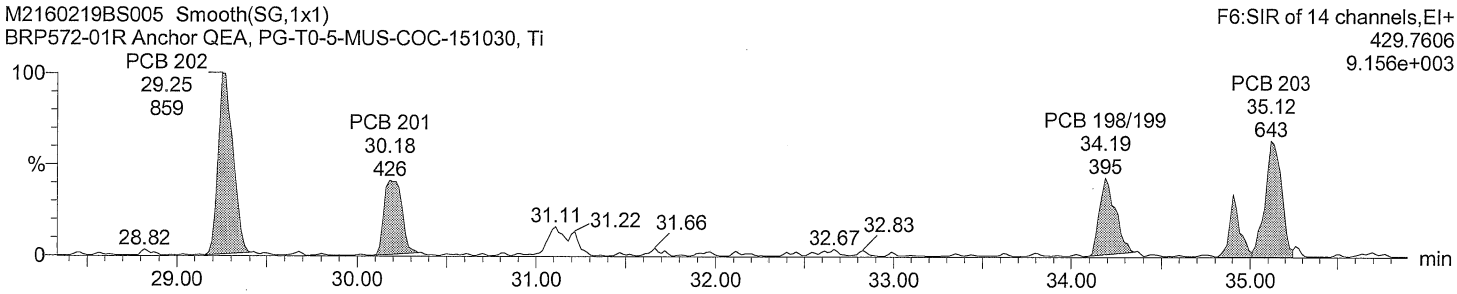

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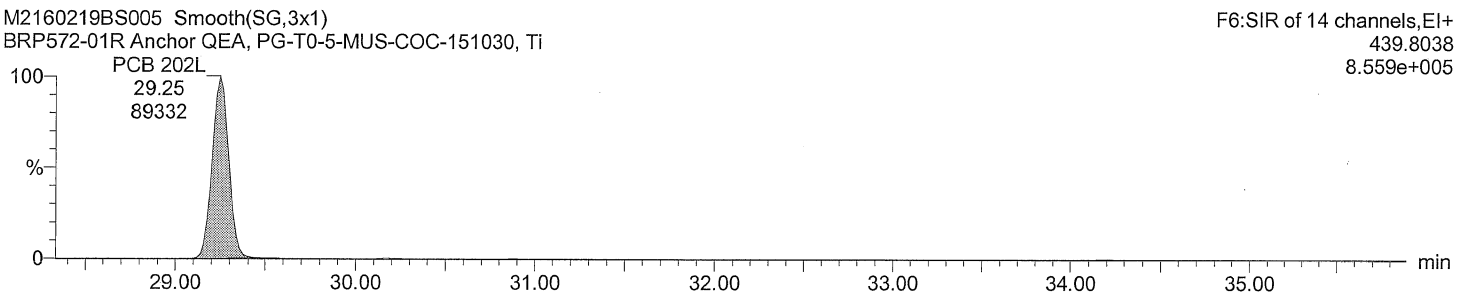

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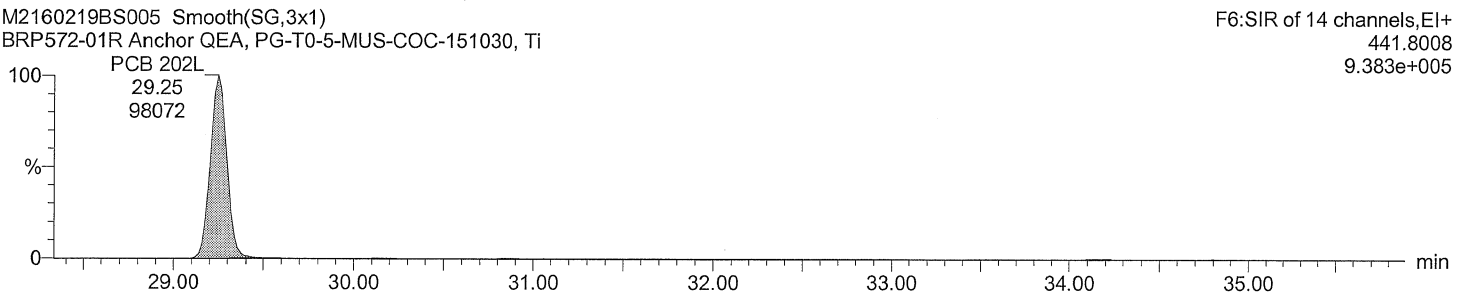

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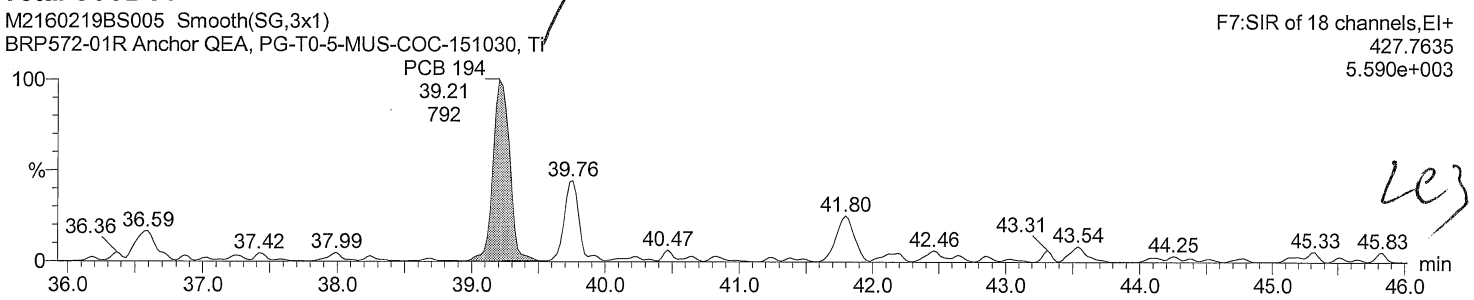

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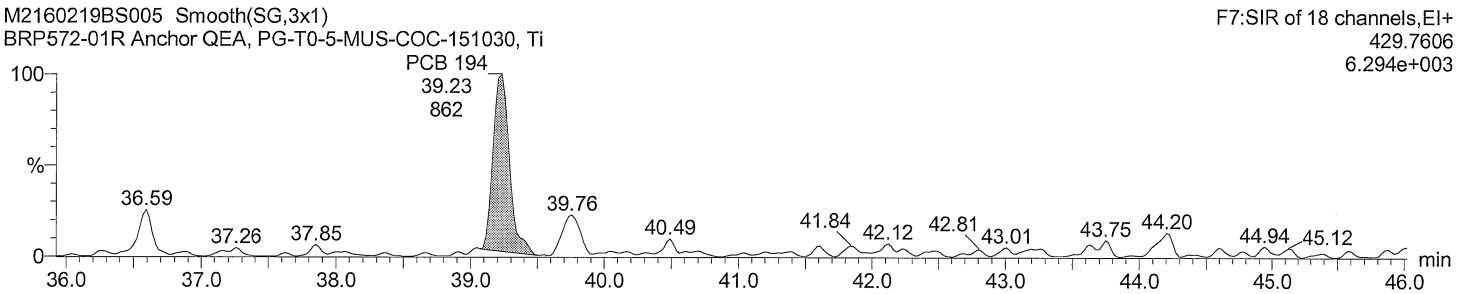

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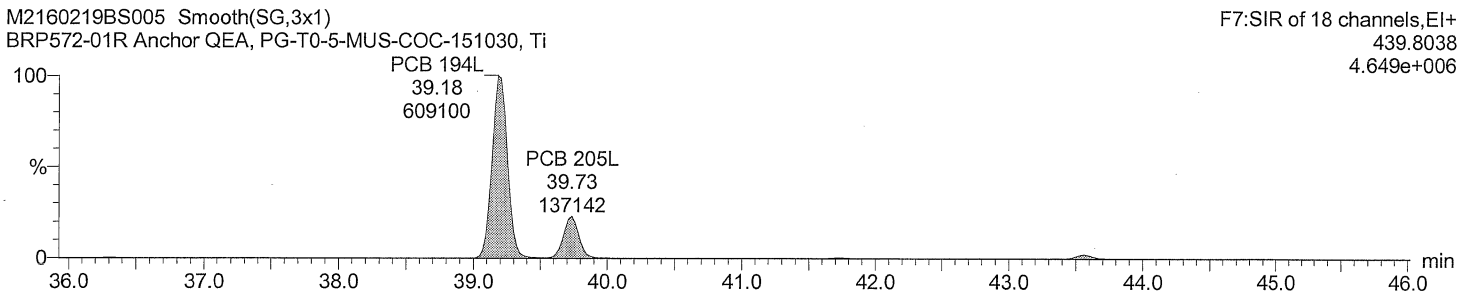

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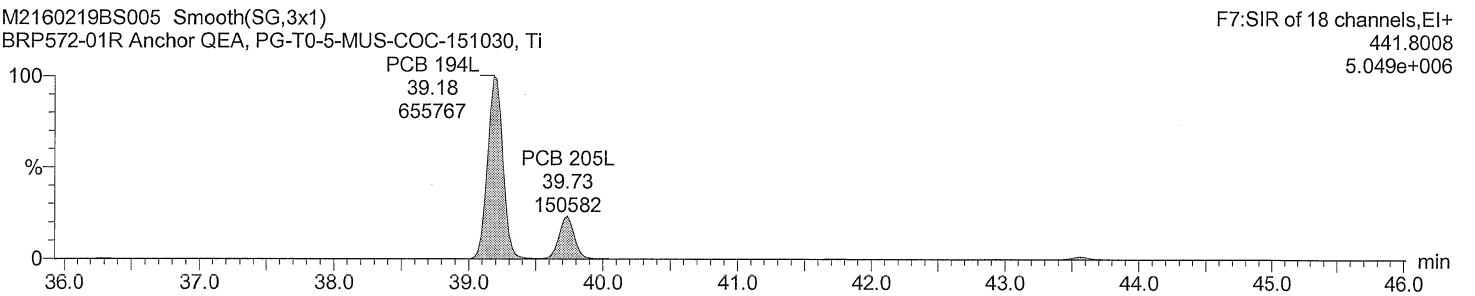

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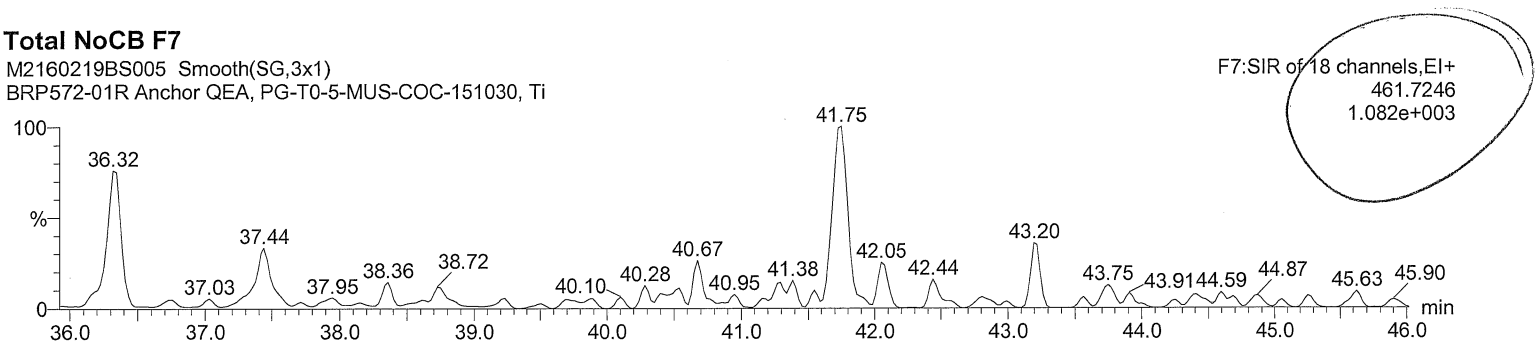
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP572-01R
Vial: 5
Date: 19-FEB-2016
Time: 15:28:13
Instrument: Autospec-UltimaE

Total NoCB F7



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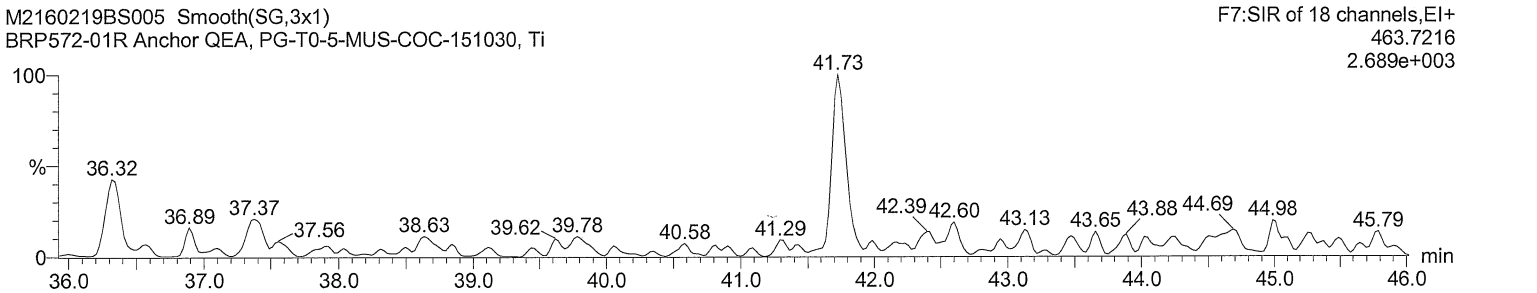

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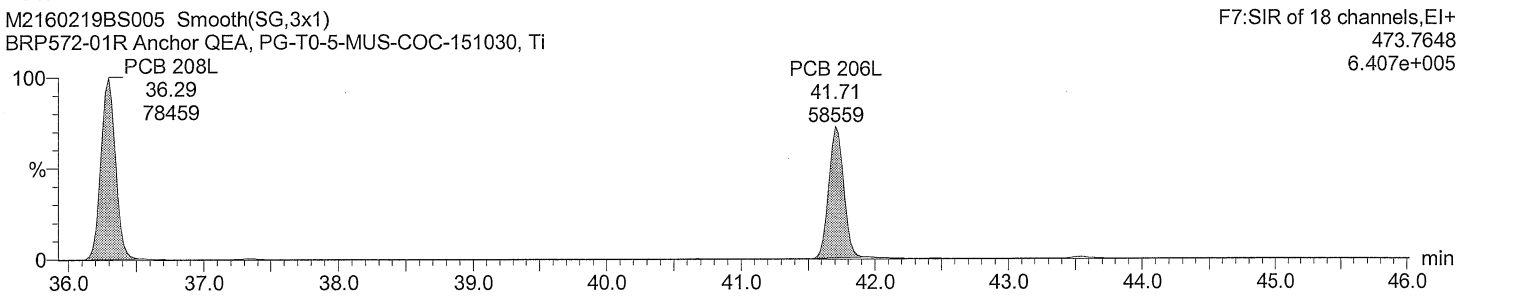

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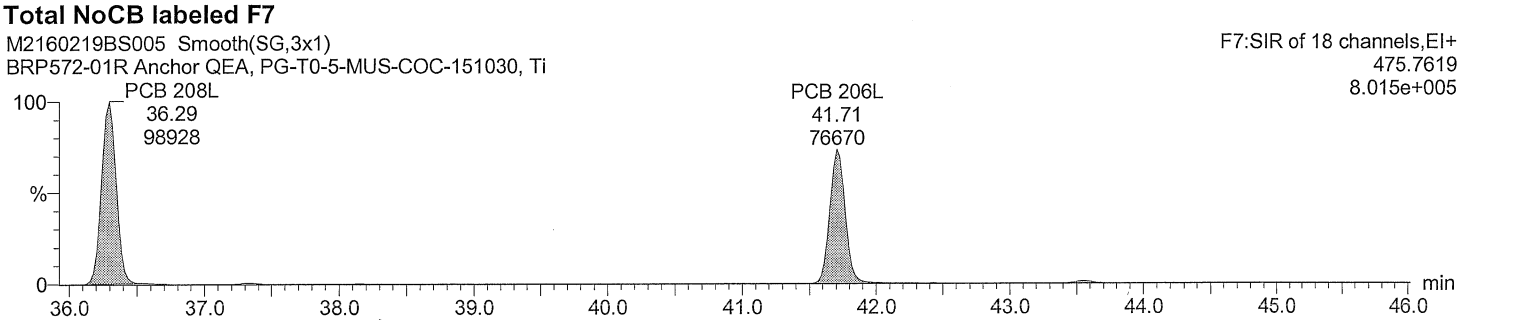

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160219_samples_1668A.qld

Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP572-01R
Vial: 5
Date: 19-FEB-2016
Time: 15:28:13
Instrument: Autospec-UltimaE

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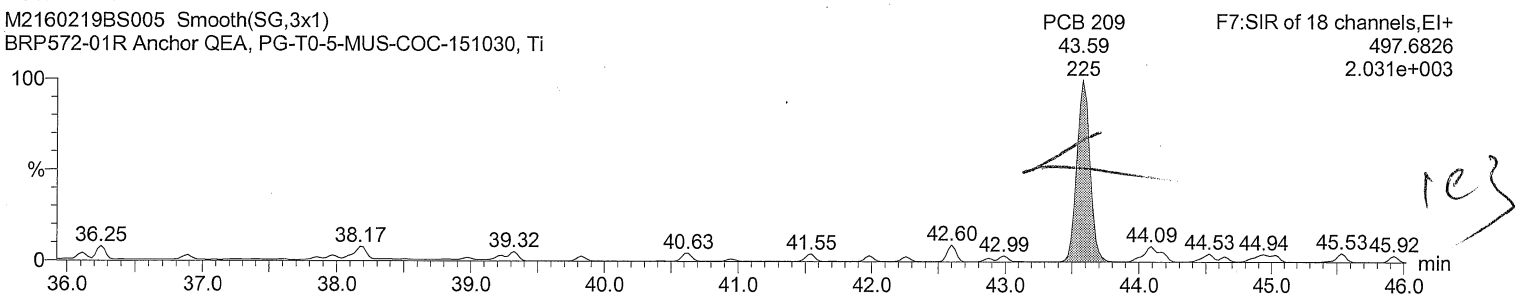

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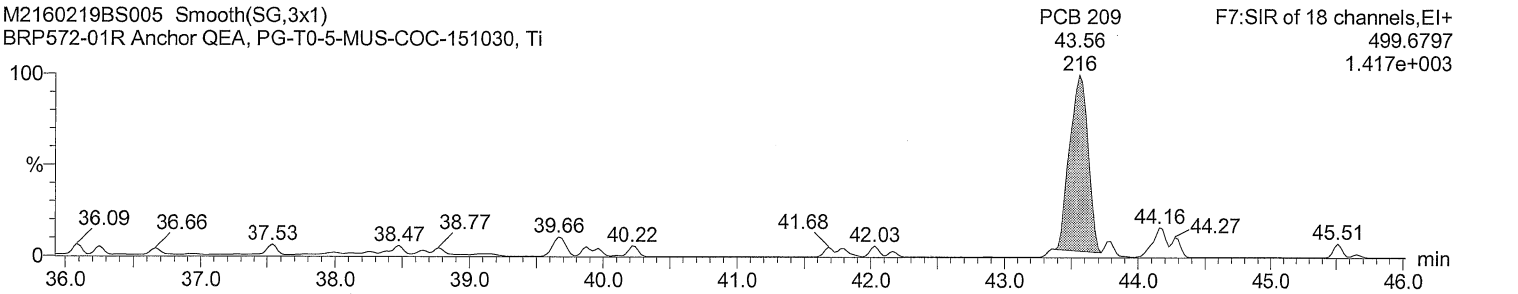

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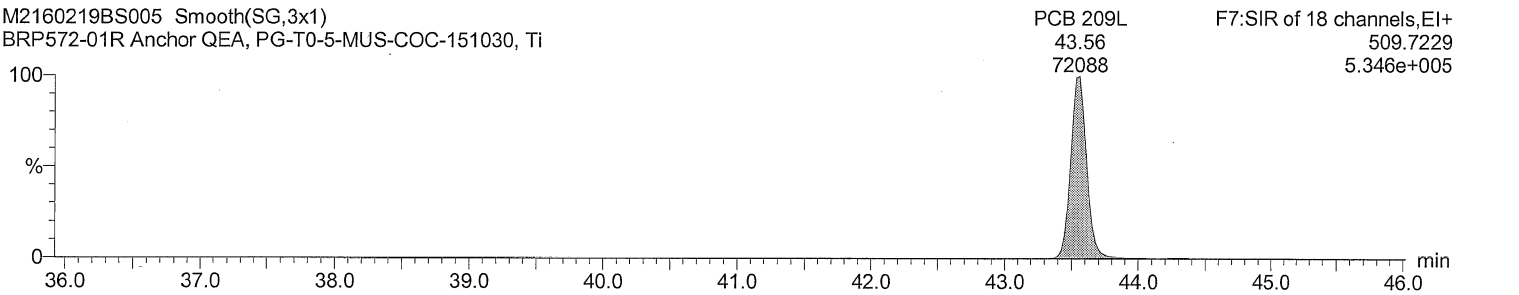

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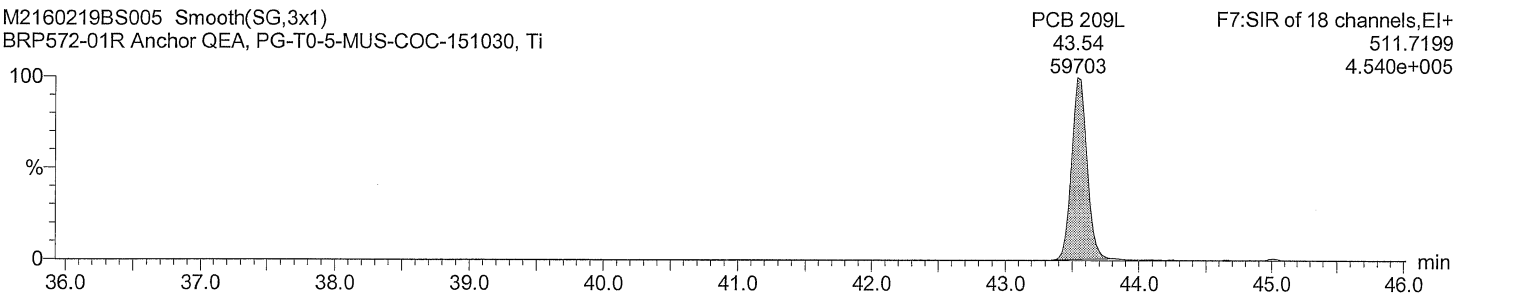

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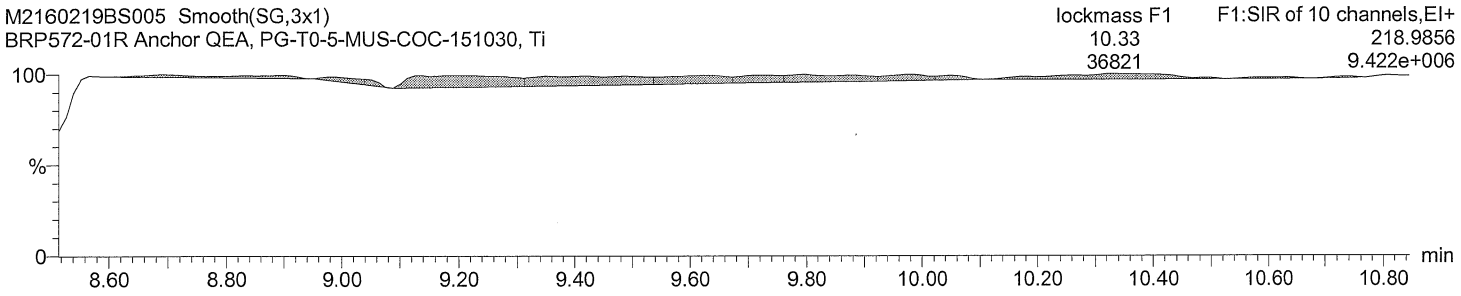
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP572-01R
Vial: 5
Date: 19-FEB-2016
Time: 15:28:13
Instrument: Autospec-UltimaE

lockmass F1



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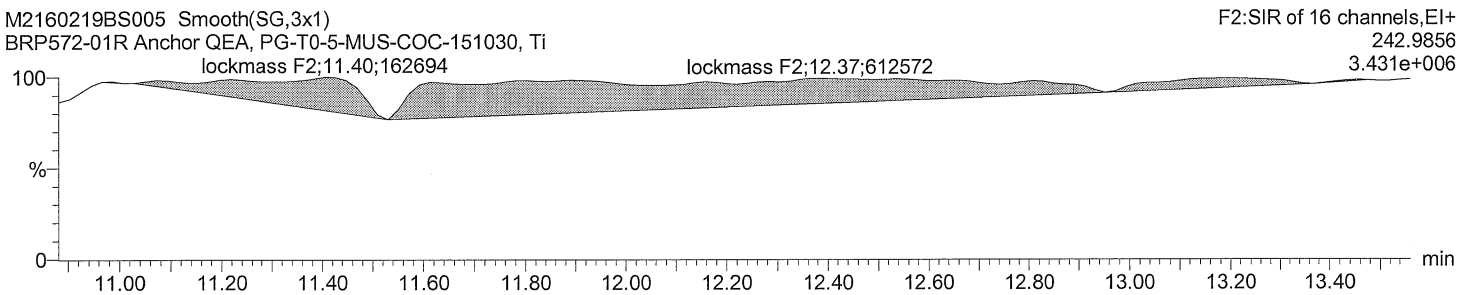

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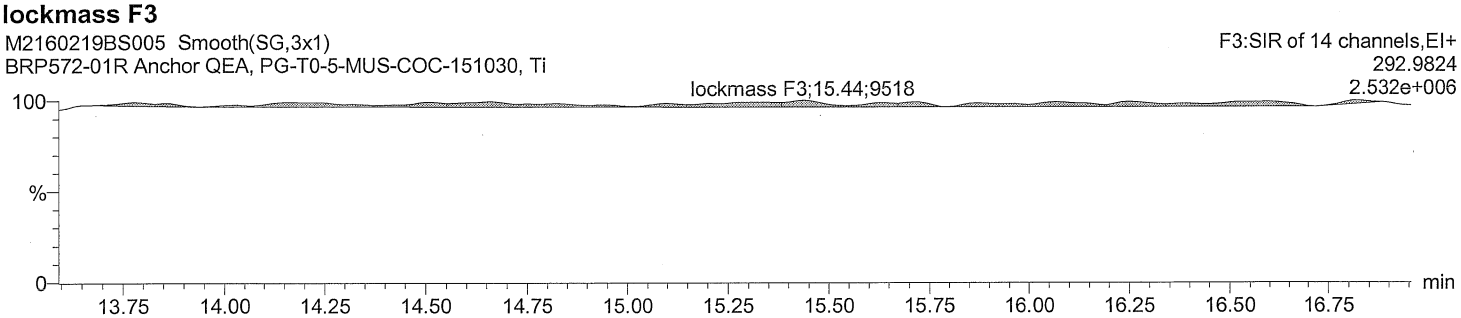

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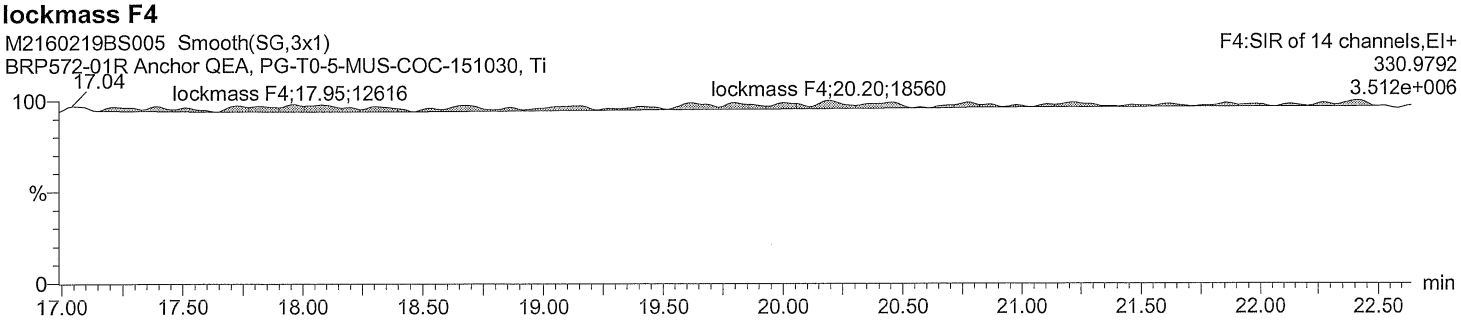
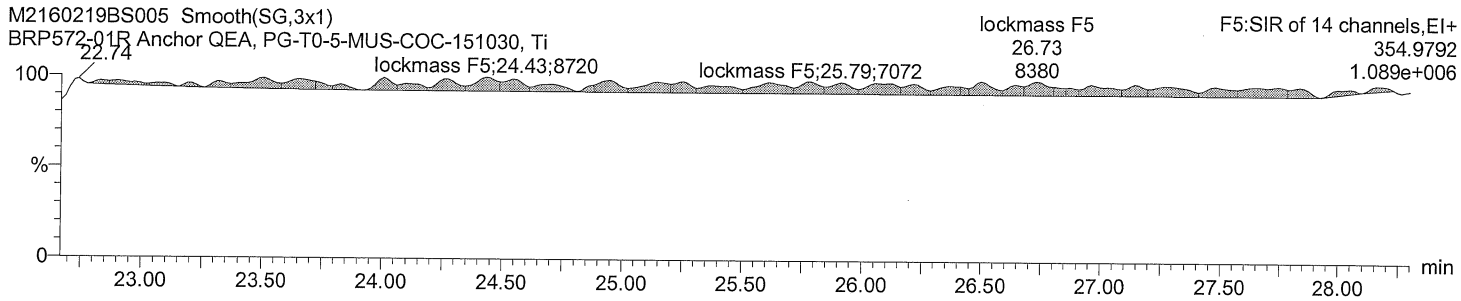


Dataset: C:\MassLynx\Default.pro\QLD\M2160219_samples_1668A.qld

Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP572-01R
Vial: 5
Date: 19-FEB-2016
Time: 15:28:13
Instrument: Autospec-UltimaE

lockmass F5



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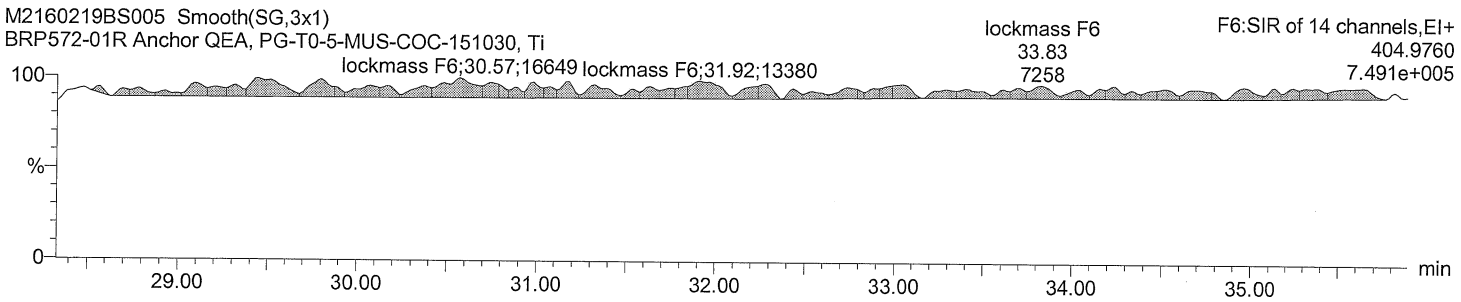
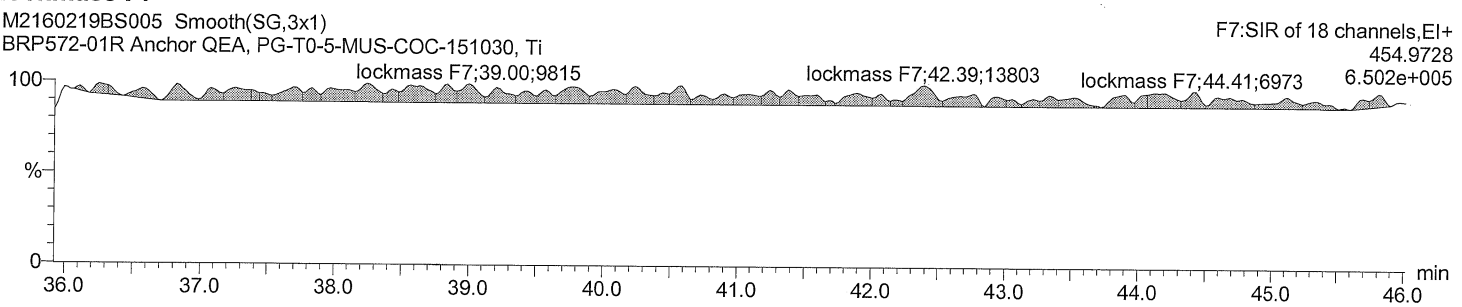
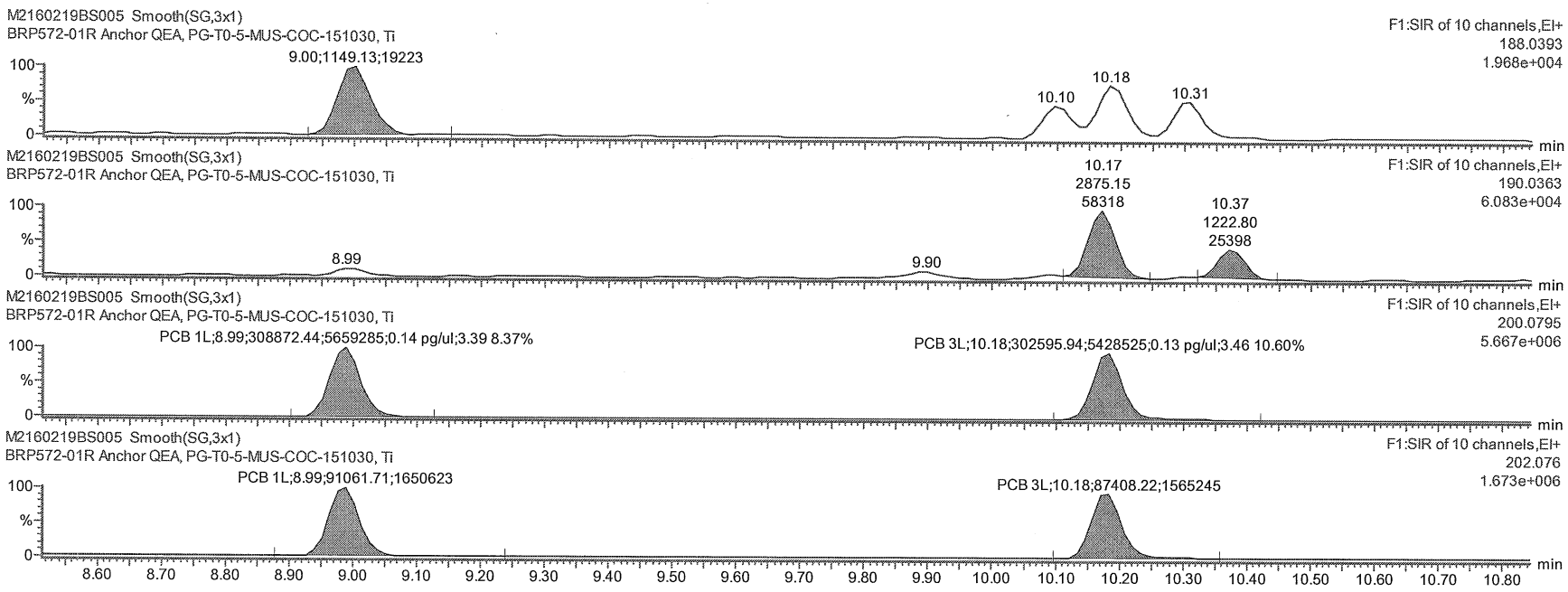


lockmass F7





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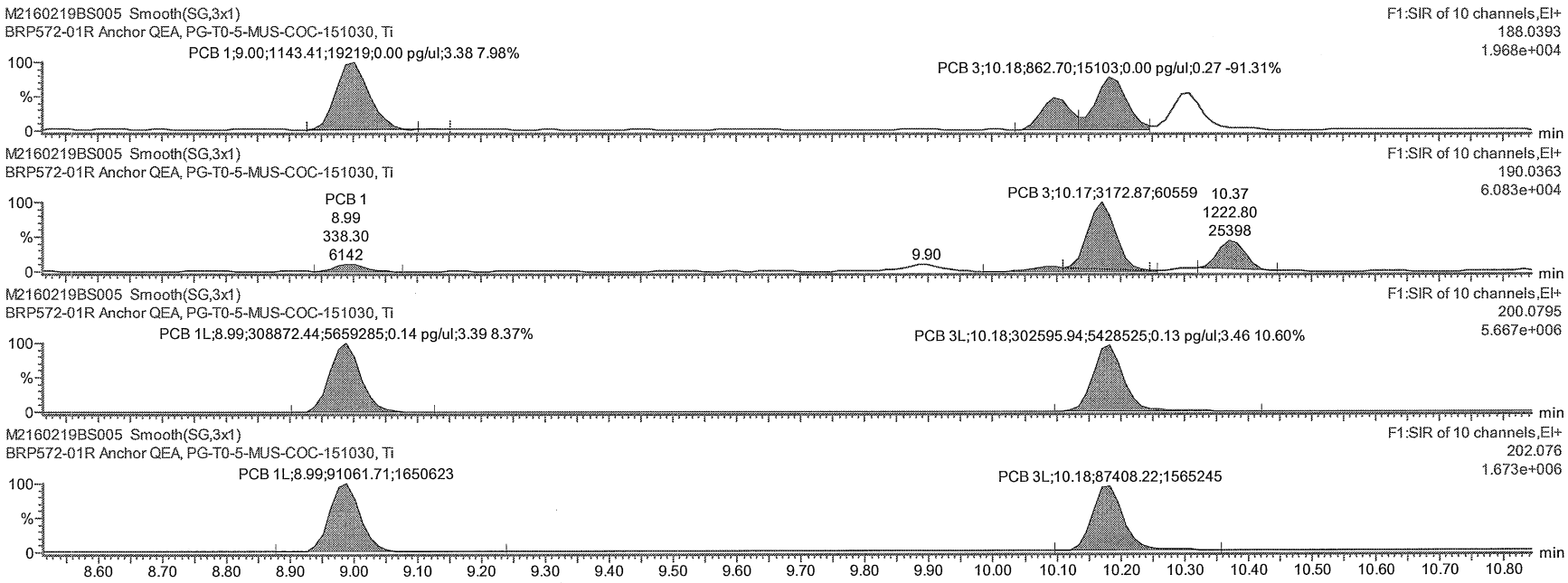
FEB 2 3 2016



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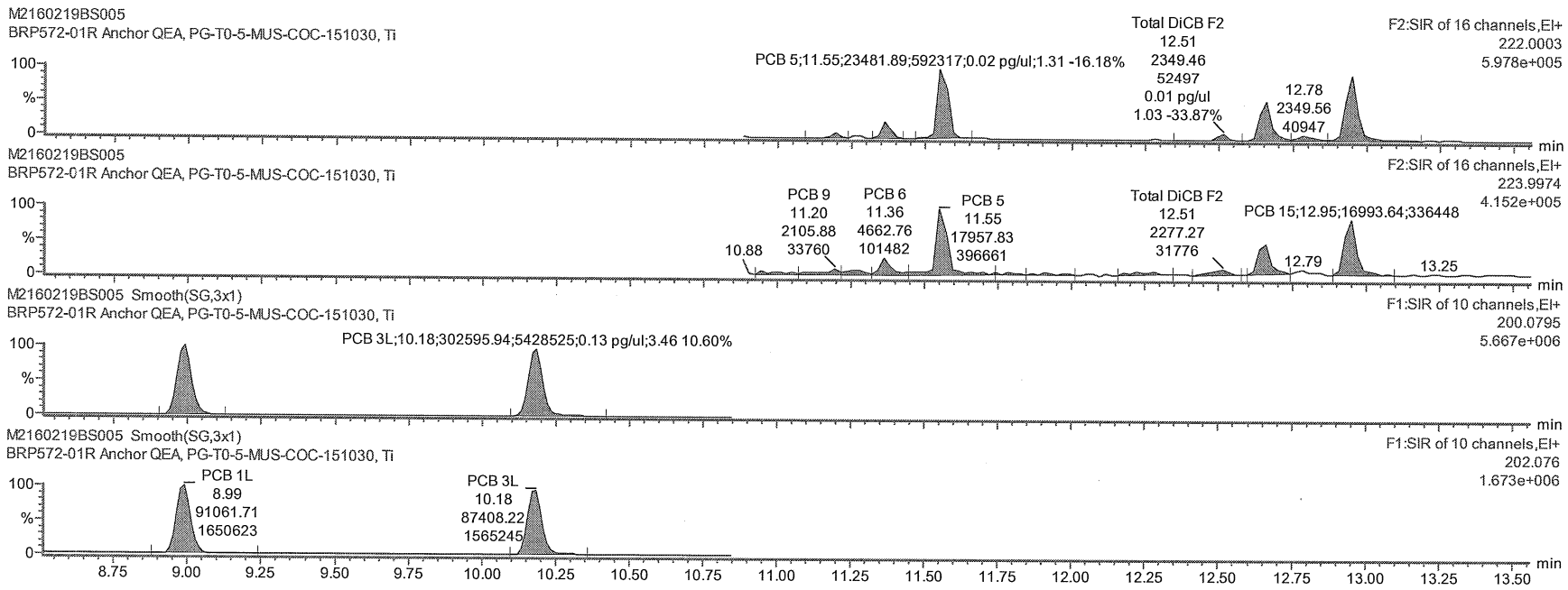

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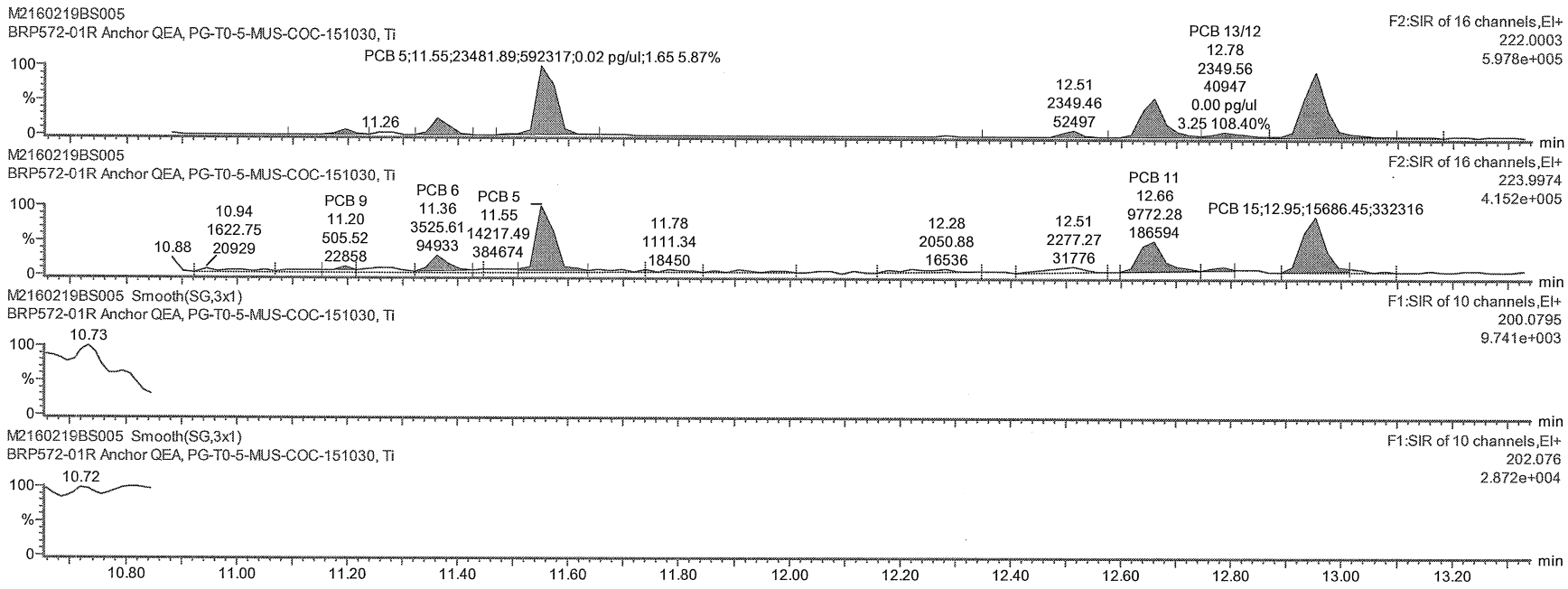

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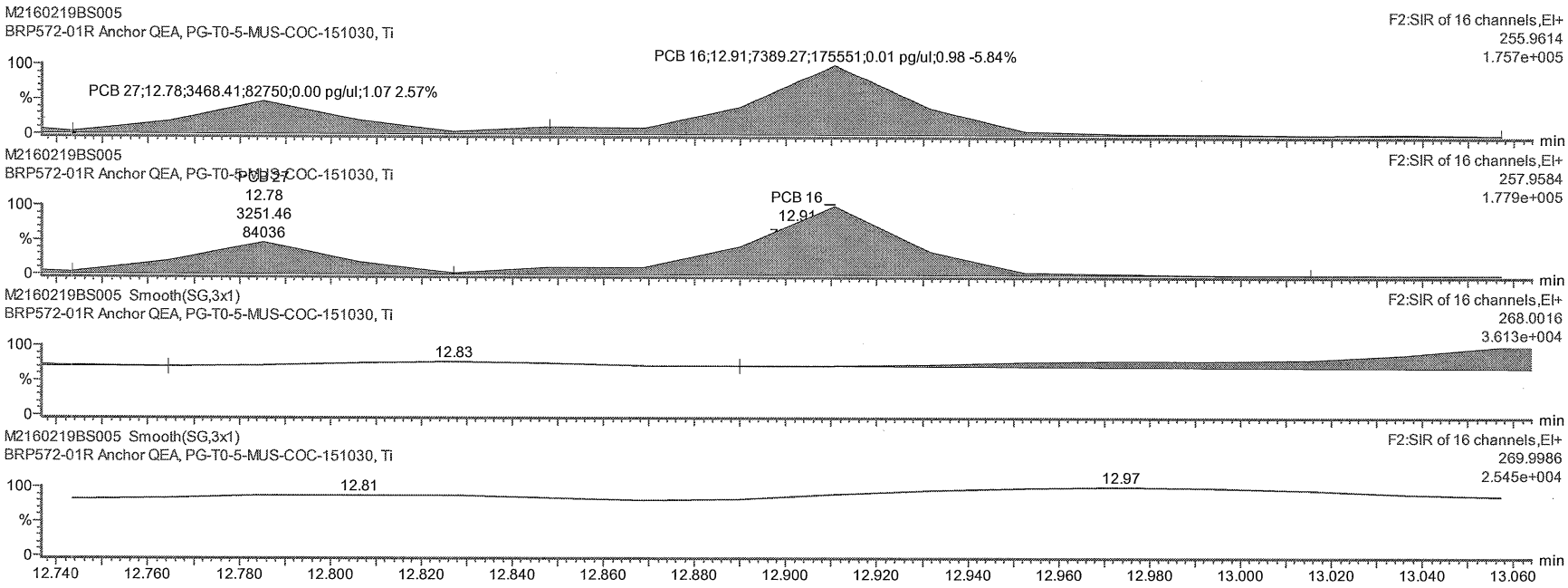

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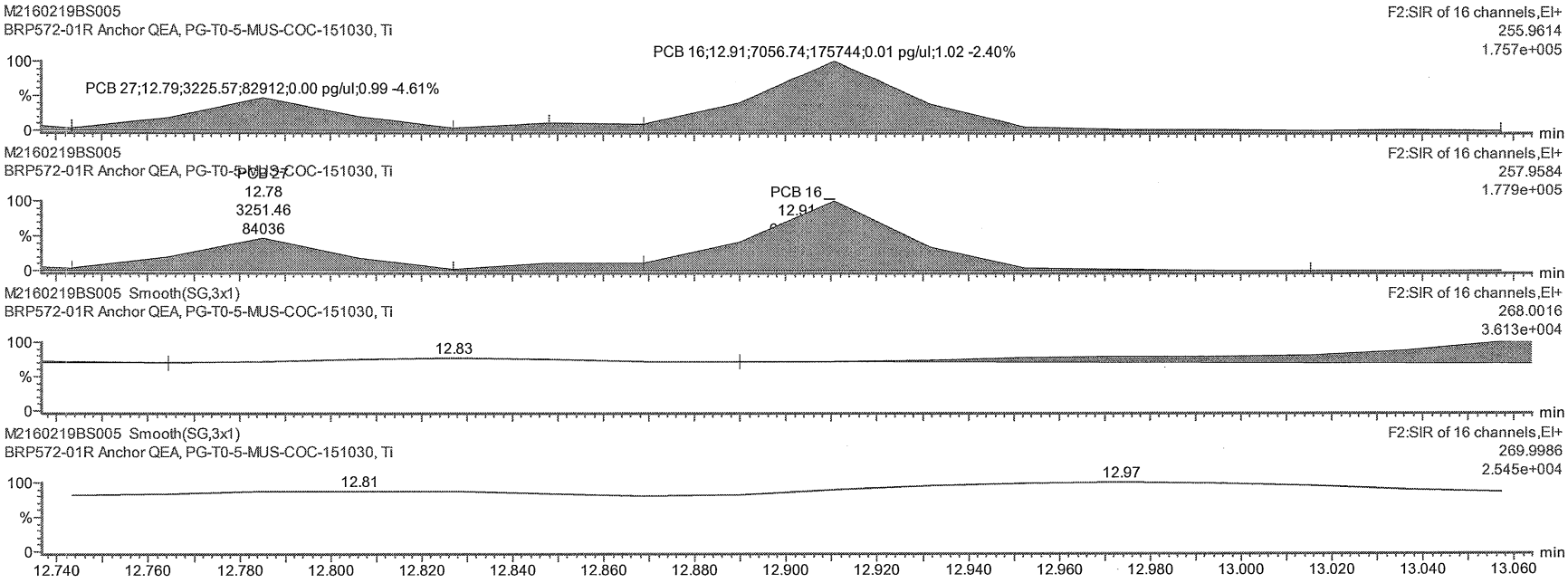

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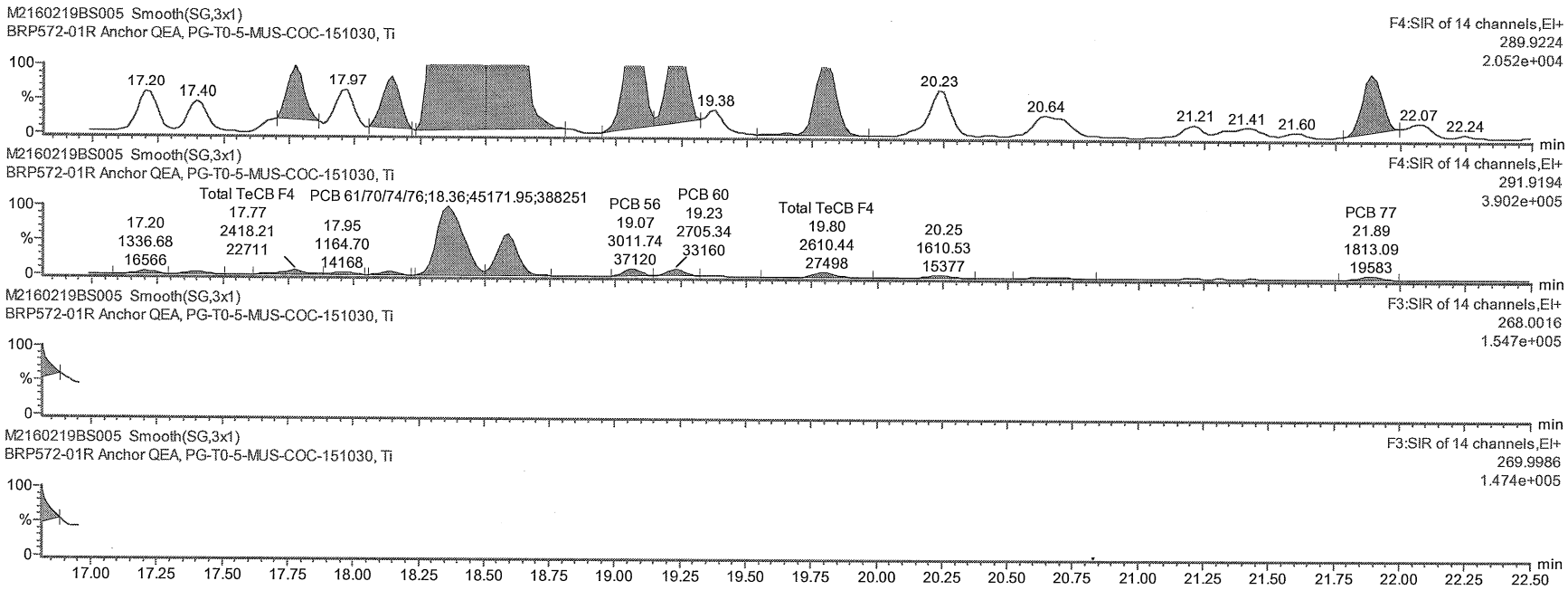

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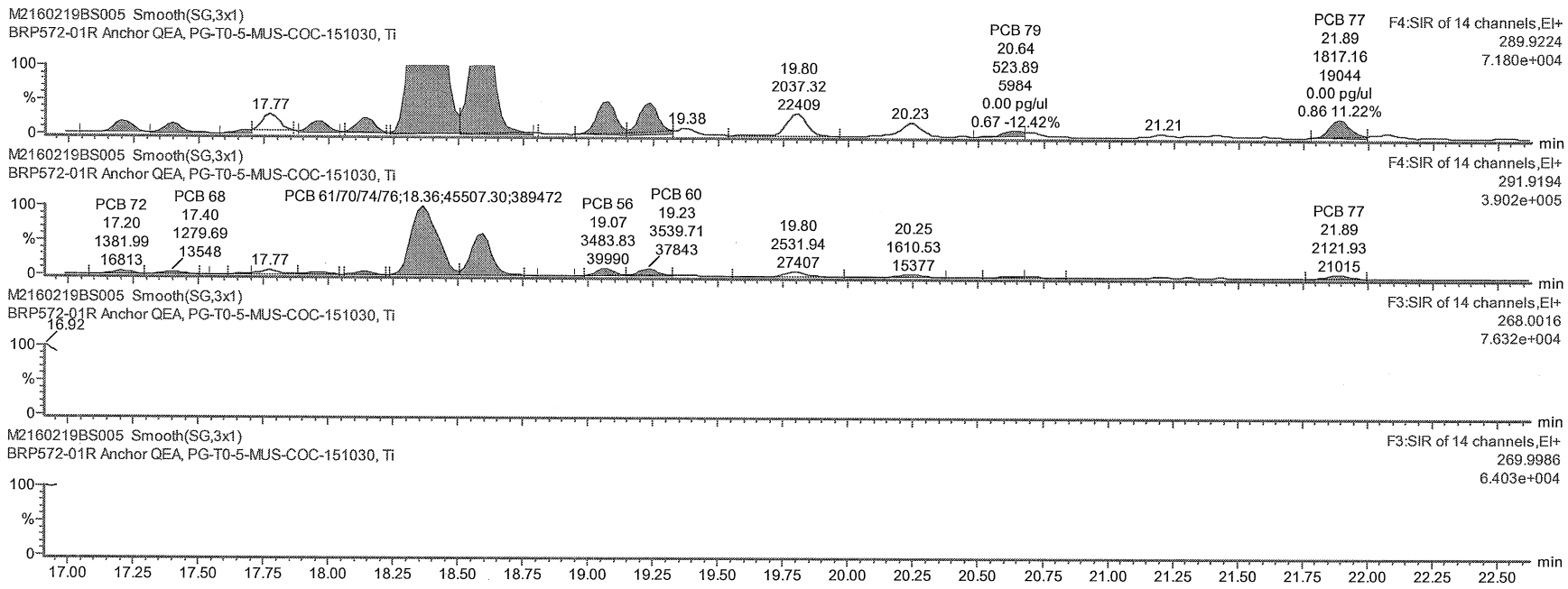

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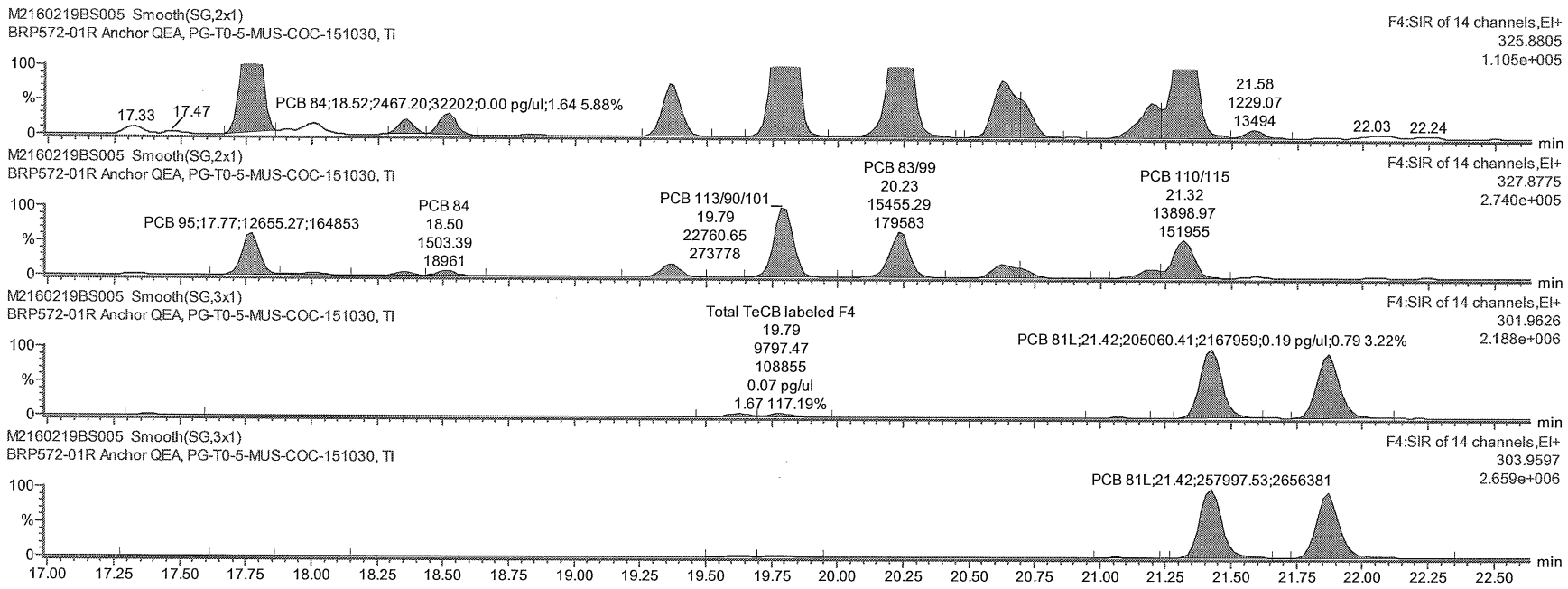

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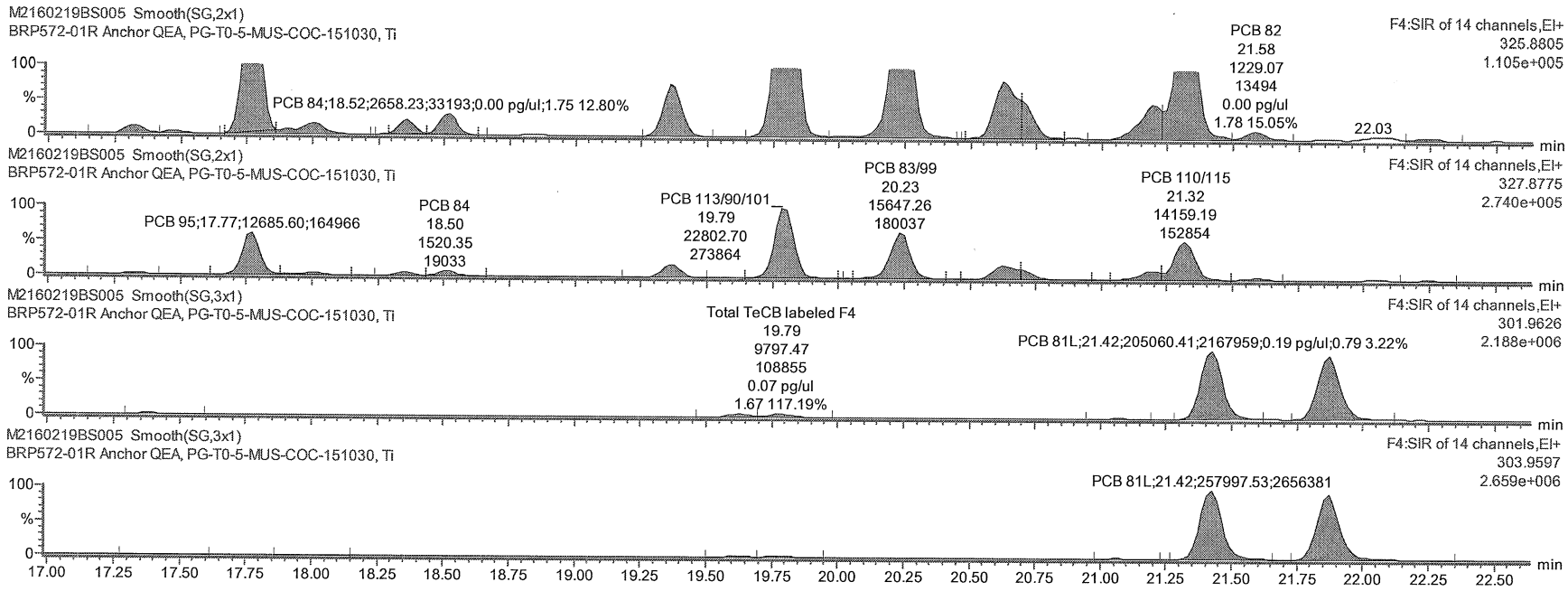

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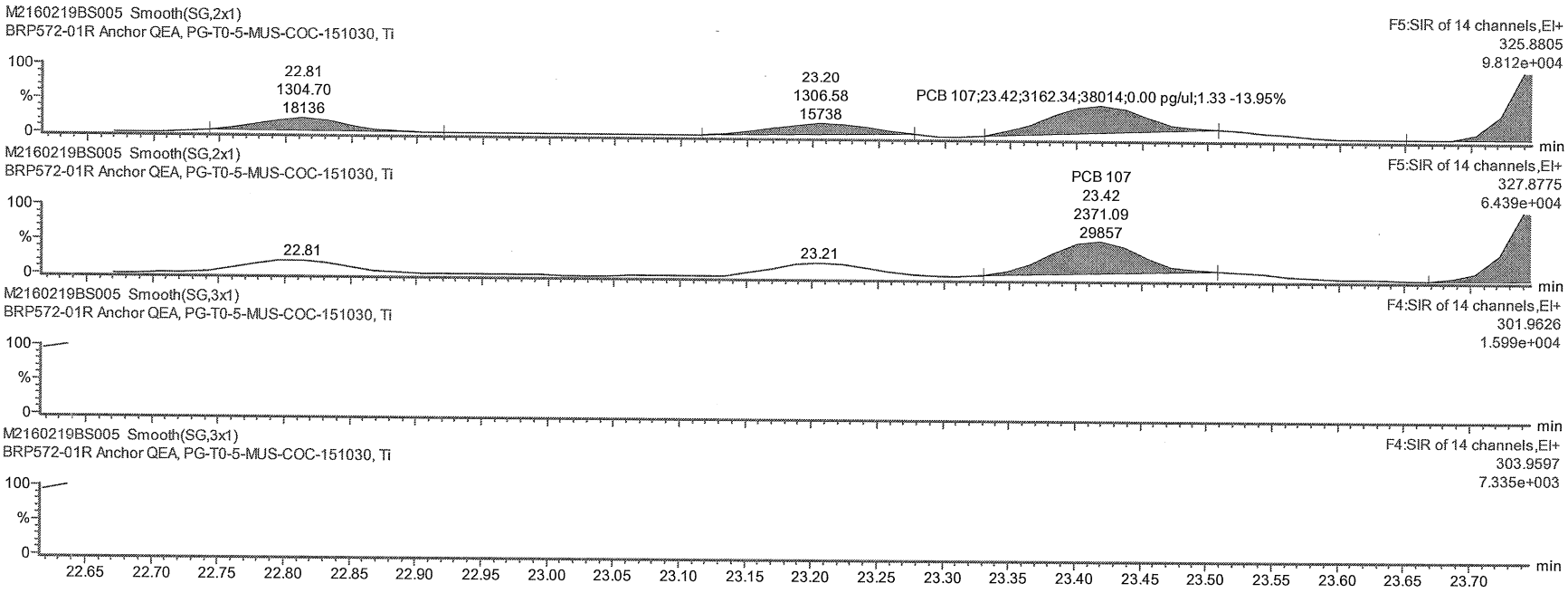

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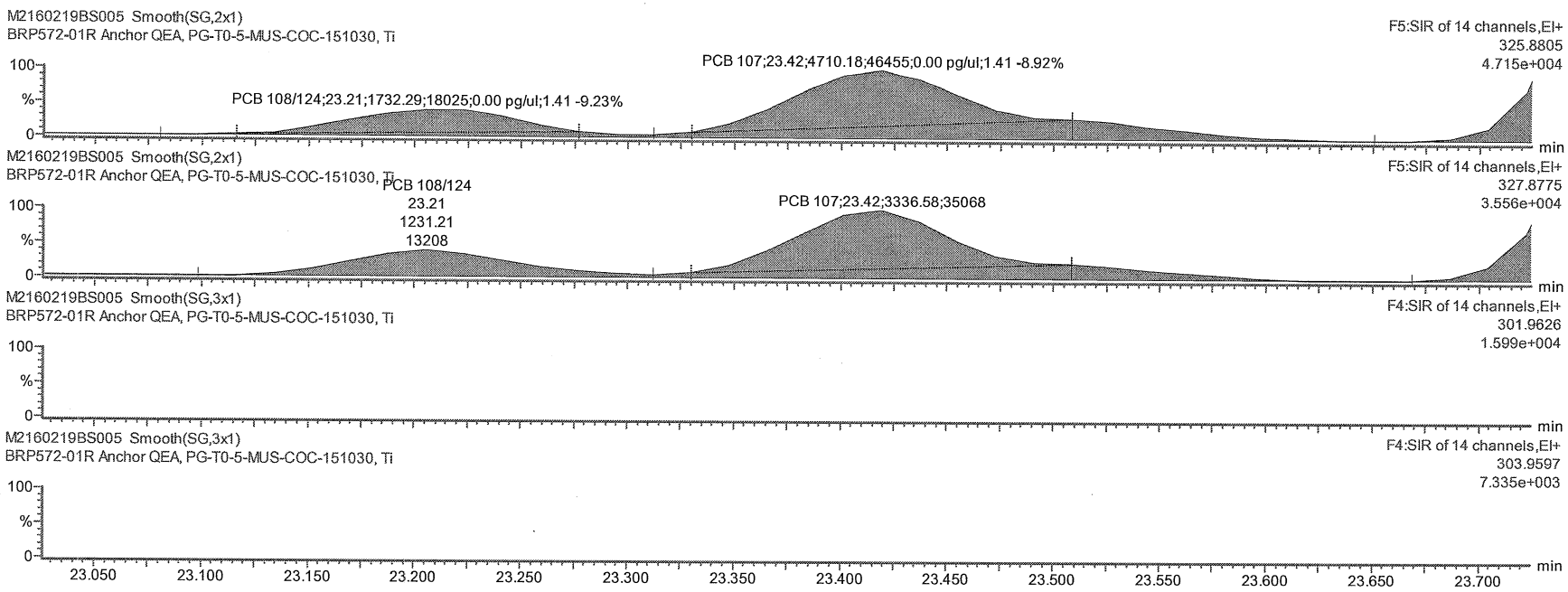

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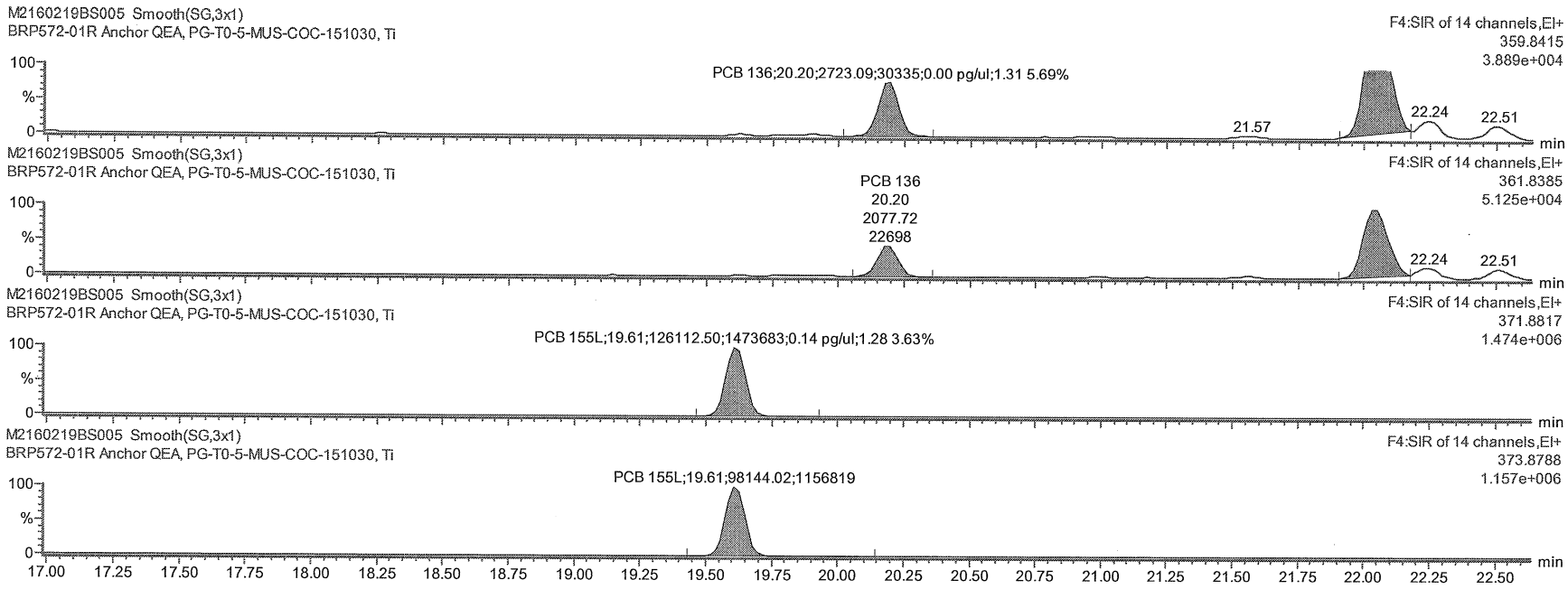

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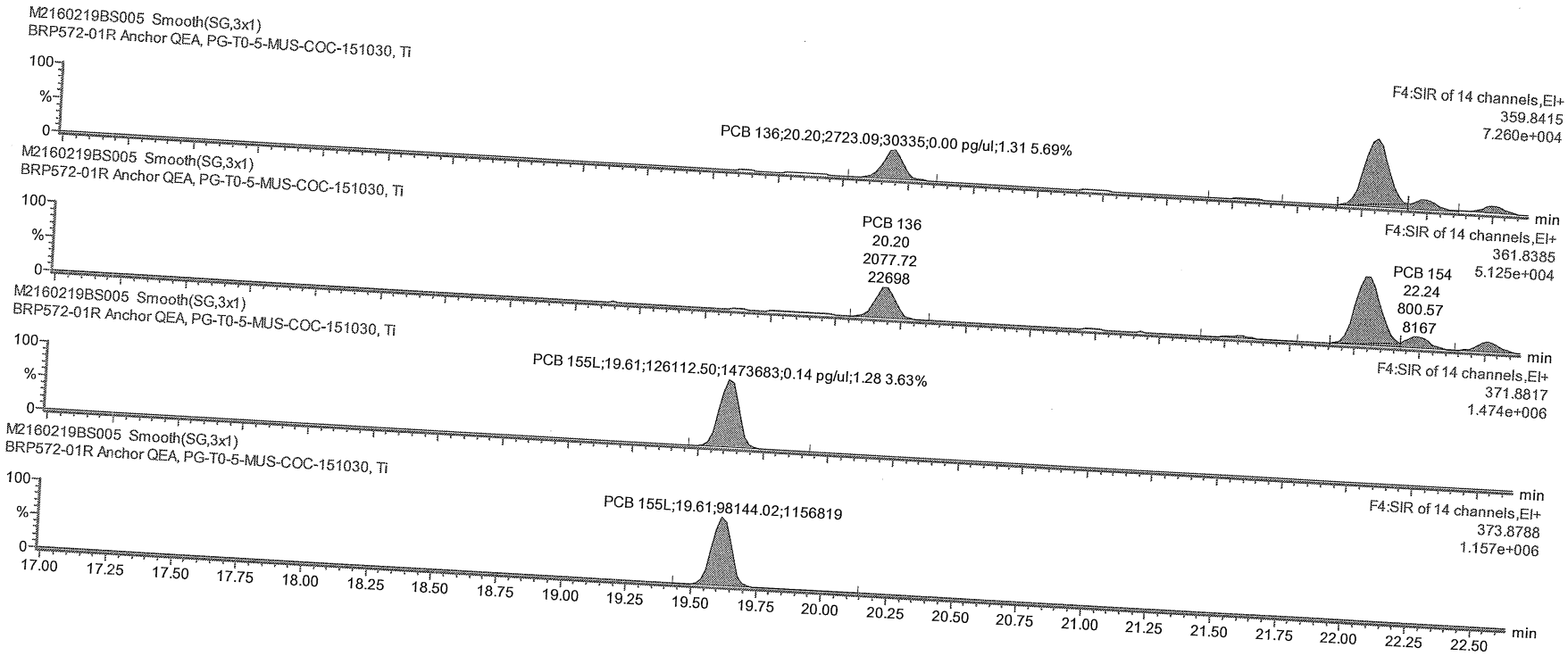

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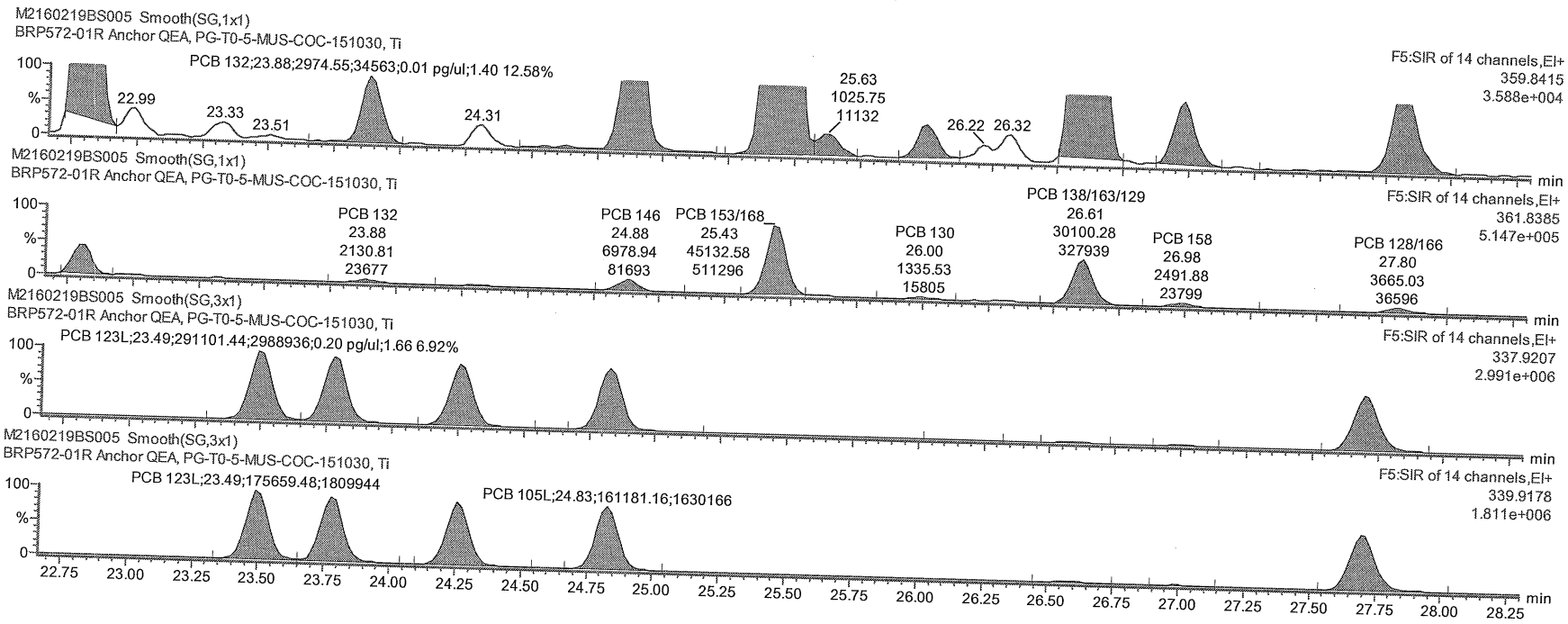

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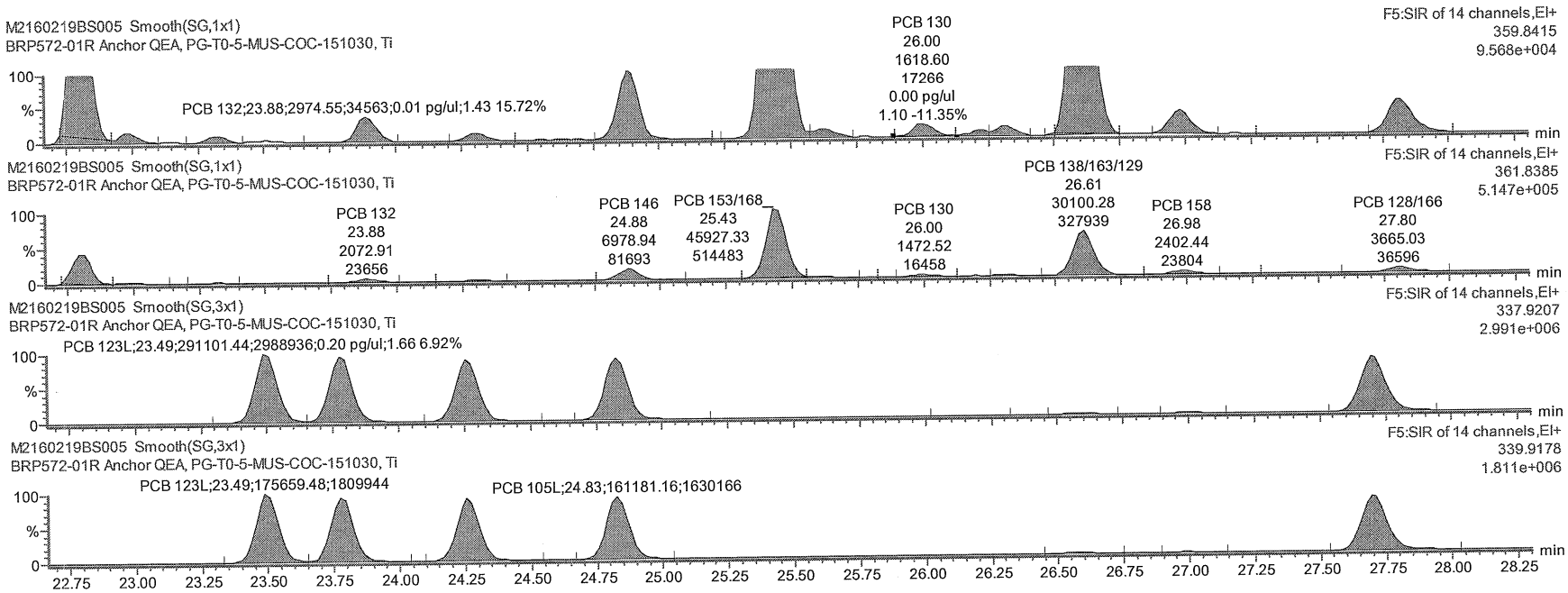

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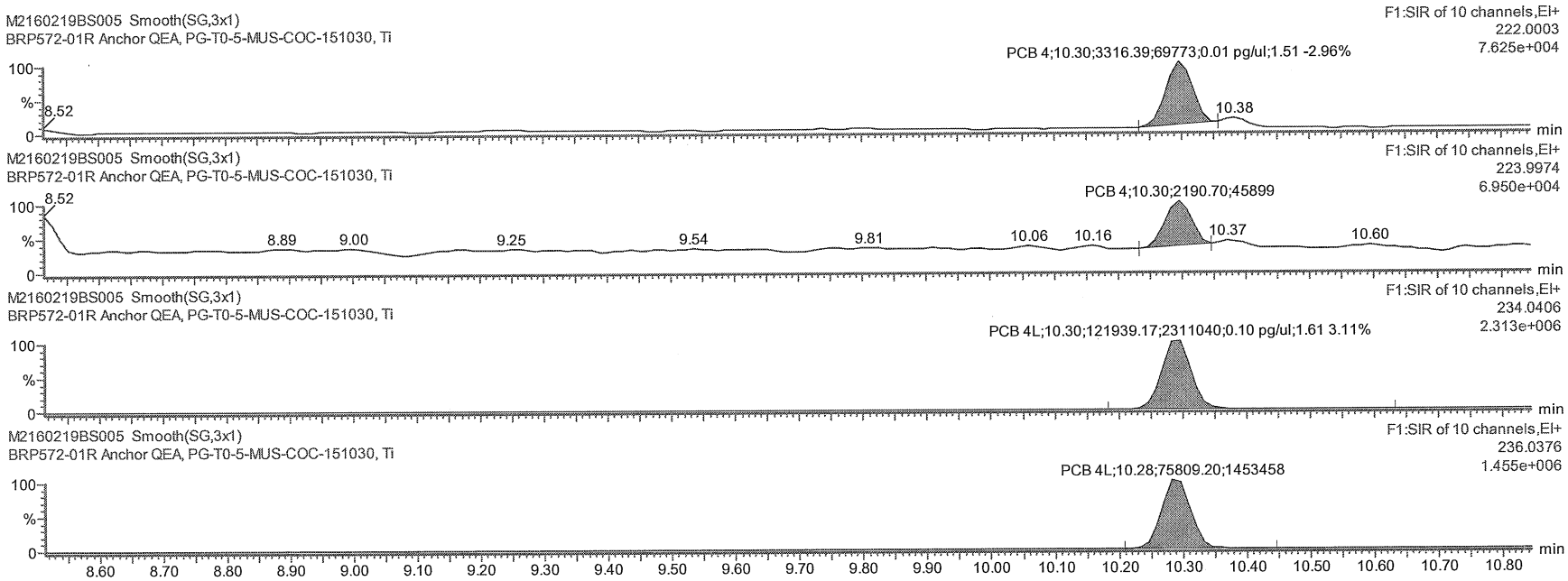

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'2016-02-23

FEB 23 2016

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Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Prepared for: Anchor QEA, LLC

Project: Port Gamble Clean-up

Analytical Data Package

Analysis: PCB Congeners by EPA 1668A

Maxxam Job #: B612062

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

I hereby certify that to the best of my knowledge all analytical data presented in this report:

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Glossary of Terms

- ***MDL*** represents the Minimum Detection Limit below which the laboratory cannot confirm the presence of the analyte to the 95% confidence level.
- ***RDL*** represents the Reportable Detection Limit and is usually set at a value equivalent to the lowest calibration standard
- ***Acceptance Criteria*** are values used by the laboratory to determine that a process is in control.
- ***Accuracy*** is the degree of agreement of a measured value with the true or expected value.
- ***Calibration Standards*** are a set of solutions containing the analytes of interest at a specified concentration.
- ***Calibration Verification Standard*** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to access whether the initial calibration is still valid
- ***Certified Reference Material*** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.
- ***Internal Standard*** a deuterated or ^{13}C-labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variablity.
- ***Isomer*** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.
- ***Method Blank*** is a laboratory control sample using reagents that are known to be free of contamination.
- ***Precision*** is the degree of agreement between the data generated from repetitive measurements under specific conditions.
- ***Quality Assurance*** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.
- ***Quality Control*** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.
- ***RSD*** is the relative standard deviation.
- ***Blank Spike*** is a laboratory control sample that has been fortified with native analytes of interest.
- ***Window Defining Mixture*** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.
- ***RPD*** or Relative Percent Difference. A measure used to compare duplicate sample analysis.
- ***EMPC/NDR –*** Peak detected does not meet ratio criteria and has resulted in a higher detection limit.

1.0 Project Narrative

Maxxam Analytics International
6740 Campobello Rd. Mississauga,
Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

PROJECT NARRATIVE

Maxxam Analytics
Maxxam Job #: B612062

Client: Anchor QEA, LLC
Client Project: ATS0

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Maxxam ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run	Initial Calibration
PCB Congeners in Tissue (1668A)						
BRP508	PG-SMA2-2-MUS-COC-160104	2016/01/04	2016/01/20	2016/02/11	2016/02/18	2016/02/11
BRP509	PG-PJ-1-MUS-COC-160104	2016/01/04	2016/01/20	2016/02/11	2016/02/18	2016/02/11
BRP510	PG-WS-1-MUS-COC-160104	2016/01/04	2016/01/20	2016/02/11	2016/02/18	2016/02/11
BRP510 Dup	PG-WS-1-MUS-COC-160104	2016/01/04	2016/01/20	2016/02/11	2016/02/18	2016/02/11
BRP511	PG-GP-1-MUS-COC-160104	2016/01/04	2016/01/20	2016/02/11	2016/02/18	2016/02/11
BRP512	PG-SMA2-5-MUS-COC-160104	2016/01/04	2016/01/20	2016/02/11	2016/02/19	2016/02/11
BRP513	PG-SMA2-4-MUS-COC-160105	2016/01/05	2016/01/20	2016/02/11	2016/02/19	2016/02/11

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: none encountered

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.

d) All analytes requiring manual intergration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

M Di Grazia

2016/03/28
Date

2.0 Summary Report

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Success Through Science®

Your Project #: ATS0
Site#: PORT GAMBLE
Site Location: PORT GAMBLE CLEAN-UP
Your C.O.C. #: NA

Attention:
Anchor QEA Reporting Group
Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA
USA 98101

Report Date: 2016/03/28
Report #: R3943088
Version: 4R

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B612062
Received: 2016/01/20, 14:25

Sample Matrix: TISSUE
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PCB Congeners in Tissue (1668A)	4	2016/02/11	2016/02/18	BRL SOP-00408, BRL SOP-00409	EPA 1668A m
PCB Congeners in Tissue (1668A)	2	2016/02/11	2016/02/19	BRL SOP-00408, BRL SOP-00409	EPA 1668A m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

U = Undetected at the limit of quantitation.
J = Estimated concentration between the EDL & RDL.
B = Blank Contamination.
Q = One or more quality control criteria failed.
E = Analyte concentration exceeds the maximum concentration level.
K = Estimated maximum possible concentration due to ion abundance ratio failure.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Melissa DiGrazia, Project Manager - ATUT
Email: MDiGrazia@maxxam.ca
Phone# (905) 817-5700

==========

Your Project #: ATS0
Site#: PORT GAMBLE
Site Location: PORT GAMBLE CLEAN-UP
Your C.O.C. #: NA

Attention:
Anchor QEA Reporting Group
Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA
USA 98101

Report Date: 2016/03/28
Report #: R3943088
Version: 4R

CERTIFICATE OF ANALYSIS – REVISED REPORT

approval of Maxxam. Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section.

Total cover pages: 2

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP508							
Sampling Date		2016/01/04 14:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-2-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng/g	0.00070 U	0.00070	0.0098	N/A	N/A	N/A	N/A	4386412
3-MonoCB-(2)	ng/g	0.00063 U	0.00063	0.0098	N/A	N/A	N/A	N/A	4386412
4-MonoCB-(3)	ng/g	0.00070 U	0.00070	0.0098	N/A	N/A	N/A	N/A	4386412
22'-DiCB-(4)	ng/g	0.0032 U	0.0032	0.0098	N/A	N/A	N/A	N/A	4386412
2,3-DiCB-(5)	ng/g	0.0039 U	0.0039	0.0098	N/A	N/A	N/A	N/A	4386412
2,3'-DiCB-(6)	ng/g	0.0029 U	0.0029	0.0098	N/A	N/A	N/A	N/A	4386412
2,4-DiCB-(7)	ng/g	0.0033 U	0.0033	0.0098	N/A	N/A	N/A	N/A	4386412
2,4'-DiCB-(8)	ng/g	0.0068 J	0.0026	0.0098	N/A	N/A	N/A	N/A	4386412
2,5-DiCB-(9)	ng/g	0.0029 U	0.0029	0.0098	N/A	N/A	N/A	N/A	4386412
2,6-DiCB-(10)	ng/g	0.0025 U	0.0025	0.0098	N/A	N/A	N/A	N/A	4386412
3,3'-DiCB-(11)	ng/g	0.0069 JB	0.0030	0.0098	N/A	N/A	N/A	N/A	4386412
DiCB-(12)+(13)	ng/g	0.0032 U	0.0032	0.020	N/A	N/A	N/A	N/A	4386412
3,5-DiCB-(14)	ng/g	0.0029 U	0.0029	0.0098	N/A	N/A	N/A	N/A	4386412
4,4'-DiCB-(15)	ng/g	0.0229	0.0044	0.0098	N/A	N/A	N/A	N/A	4386412
22'3-TriCB-(16)	ng/g	0.0165	0.0044	0.0098	N/A	N/A	N/A	N/A	4386412
22'4-TriCB-(17)	ng/g	0.0056 U (1)	0.0056	0.0098	N/A	N/A	N/A	N/A	4386412
TriCB-(18)+(30)	ng/g	0.0277	0.0027	0.020	N/A	N/A	N/A	N/A	4386412
22'6-TriCB-(19)	ng/g	0.0033 J	0.0024	0.0098	N/A	N/A	N/A	N/A	4386412
TriCB-(20) + (28)	ng/g	0.306	0.0011	0.020	N/A	N/A	N/A	N/A	4386412
TriCB-(21)+(33)	ng/g	0.0409	0.0011	0.020	N/A	N/A	N/A	N/A	4386412
234'-TriCB-(22)	ng/g	0.0361	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
235-TriCB-(23)	ng/g	0.0013 U	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
236-TriCB-(24)	ng/g	0.0026 U	0.0026	0.0098	N/A	N/A	N/A	N/A	4386412
23'4-TriCB-(25)	ng/g	0.0081 J	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
TriCB-(26)+(29)	ng/g	0.0195 J	0.0011	0.020	N/A	N/A	N/A	N/A	4386412
23'6-TriCB-(27)	ng/g	0.0052 J	0.0022	0.0098	N/A	N/A	N/A	N/A	4386412
24'5-TriCB-(31)	ng/g	0.0873	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP508							
Sampling Date		2016/01/04 14:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-2-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
24'6-TriCB-(32)	ng/g	0.0066 J	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412
23'5'-TriCB-(34)	ng/g	0.0011 U	0.0011	0.0098	N/A	N/A	N/A	N/A	4386412
33'4-TriCB-(35)	ng/g	0.00086 U	0.00086	0.0098	N/A	N/A	N/A	N/A	4386412
33'5-TriCB-(36)	ng/g	0.00087 U	0.00087	0.0098	N/A	N/A	N/A	N/A	4386412
344'-TriCB-(37)	ng/g	0.0402	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
345-TriCB-(38)	ng/g	0.00095 U	0.00095	0.0098	N/A	N/A	N/A	N/A	4386412
34'5-TriCB-(39)	ng/g	0.0018 J	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
TetraCB-(40)+(41)+(71)	ng/g	0.0956	0.0026	0.029	N/A	N/A	N/A	N/A	4386412
22'34'-TetraCB-(42)	ng/g	0.0434	0.0028	0.0098	N/A	N/A	N/A	N/A	4386412
22'35-TetraCB-(43)	ng/g	0.0158	0.0037	0.0098	N/A	N/A	N/A	N/A	4386412
TetraCB-(44)+(47)+(65)	ng/g	0.207	0.0024	0.029	N/A	N/A	N/A	N/A	4386412
TetraCB-(45)+(51)	ng/g	0.0181 J	0.0030	0.020	N/A	N/A	N/A	N/A	4386412
22'36'-TetraCB-(46)	ng/g	0.0116	0.0034	0.0098	N/A	N/A	N/A	N/A	4386412
22'45-TetraCB-(48)	ng/g	0.0633	0.0028	0.0098	N/A	N/A	N/A	N/A	4386412
TetraCB-(49)+TetraCB-(69)	ng/g	0.0713	0.0022	0.020	N/A	N/A	N/A	N/A	4386412
TetraCB-(50)+(53)	ng/g	0.0356	0.0029	0.020	N/A	N/A	N/A	N/A	4386412
22'55'-TetraCB-(52)	ng/g	0.206	0.0023	0.0098	N/A	N/A	N/A	N/A	4386412
22'66'-TetraCB-(54)	ng/g	0.0016 U	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
233'4-TetraCB-(55)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
233'4'-Tetra CB(56)	ng/g	0.0061 J	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
233'5-TetraCB-(57)	ng/g	0.0011 J	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
233'5'-TetraCB-(58)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
TetraCB-(59)+(62)+(75)	ng/g	0.0214 J	0.0019	0.029	N/A	N/A	N/A	N/A	4386412
2344'-TetraCB -(60)	ng/g	0.0058 J	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.112	0.0011	0.039	N/A	N/A	N/A	N/A	4386412
234'5-TetraCB-(63)	ng/g	0.00421 J	0.00097	0.0098	N/A	N/A	N/A	N/A	4386412
234'6-TetraCB-(64)	ng/g	0.0393	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412
23'44'-TetraCB-(66)	ng/g	0.0437	0.00098	0.0098	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP508							
Sampling Date		2016/01/04 14:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-2-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45-TetraCB-(67)	ng/g	0.00387 J	0.00091	0.0098	N/A	N/A	N/A	N/A	4386412
23'45'-TetraCB-(68)	ng/g	0.0017 U (1)	0.0017	0.0098	N/A	N/A	N/A	N/A	4386412
23'55'-TetraCB-(72)	ng/g	0.00204 J	0.00094	0.0098	N/A	N/A	N/A	N/A	4386412
23'5'6-TetraCB-(73)	ng/g	0.0023 U	0.0023	0.0098	N/A	N/A	N/A	N/A	4386412
33'44'-TetraCB-(77)	ng/g	0.0037 J	0.0011	0.0098	N/A	0.000100	0.000000370	N/A	4386412
33'45-TetraCB-(78)	ng/g	0.00095 U	0.00095	0.0098	N/A	N/A	N/A	N/A	4386412
33'45'-TetraCB(79)	ng/g	0.00084 U	0.00084	0.0098	N/A	N/A	N/A	N/A	4386412
33'55'-TetraCB-(80)	ng/g	0.0010 U	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
344'5-TetraCB-(81)	ng/g	0.0020 J	0.0012	0.0098	N/A	0.000300	0.000000600	N/A	4386412
22'33'4-PentaCB-(82)	ng/g	0.0047 J	0.0017	0.0098	N/A	N/A	N/A	N/A	4386412
PentaCB-(83)+(99)	ng/g	0.0727	0.0015	0.020	N/A	N/A	N/A	N/A	4386412
22'33'6-PentaCB-(84)	ng/g	0.0099	0.0018	0.0098	N/A	N/A	N/A	N/A	4386412
PentaCB-(85)+(116)+(117)	ng/g	0.0136 J	0.0012	0.029	N/A	N/A	N/A	N/A	4386412
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0376 J	0.0013	0.059	N/A	N/A	N/A	N/A	4386412
PentaCB-(88)+(91)	ng/g	0.0066 J	0.0015	0.020	N/A	N/A	N/A	N/A	4386412
22'346'-PentaCB-(89)	ng/g	0.0016 U	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
PentaCB-(90)+(101)+(113)	ng/g	0.144	0.0013	0.029	N/A	N/A	N/A	N/A	4386412
22'355'-PentaCB-(92)	ng/g	0.0239	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0080 J	0.0015	0.039	N/A	N/A	N/A	N/A	4386412
22'356'-PentaCB-(94)	ng/g	0.0018 U	0.0018	0.0098	N/A	N/A	N/A	N/A	4386412
22'35'6-PentaCB-(95)	ng/g	0.0866	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
22'366'-PentaCB-(96)	ng/g	0.0013 U (1)	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
22'45'6-PentaCB-(103)	ng/g	0.0025 J	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
22'466'-PentaCB-(104)	ng/g	0.00020 U	0.00020	0.0098	N/A	N/A	N/A	N/A	4386412
233'44'-PentaCB-(105)	ng/g	0.0282	0.00078	0.0098	N/A	0.0000300	0.000000846	N/A	4386412
233'45-PentaCB-(106)	ng/g	0.00062 U	0.00062	0.0098	N/A	N/A	N/A	N/A	4386412
233'4'5-PentaCB-(107)	ng/g	0.00776 J	0.00066	0.0098	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
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Anchor QEA, LLC
Client Project #: ATS0
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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP508							
Sampling Date		2016/01/04 14:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-2-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
PentaCB-(108)+(124)	ng/g	0.00242 J	0.00068	0.020	N/A	N/A	N/A	N/A	4386412
PentaCB-(110)+(115)	ng/g	0.0813	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
233'55'-PentaCB-(111)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
233'56-PentaCB-(112)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
2344'5-PentaCB-(114)	ng/g	0.00191 J	0.00075	0.0098	N/A	0.0000300	0.0000000573	N/A	4386412
23'44'5-PentaCB-(118)	ng/g	0.0905 B	0.00077	0.0098	N/A	0.0000300	0.00000272	N/A	4386412
23'455'-PentaCB-(120)	ng/g	0.0010 U	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
23'45'6-PentaCB-(121)	ng/g	0.0013 U	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
233'4'5'-PentaCB-(122)	ng/g	0.00070 U	0.00070	0.0098	N/A	N/A	N/A	N/A	4386412
23'44'5'-PentaCB-(123)	ng/g	0.00162 J	0.00085	0.0098	N/A	0.0000300	0.0000000486	N/A	4386412
33'44'5-PentaCB-(126)	ng/g	0.00252 J	0.00078	0.0098	N/A	0.100	0.000252	N/A	4386412
33'455'-PentaCB-(127)	ng/g	0.00062 U	0.00062	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(128)+(166)	ng/g	0.0304	0.0016	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(129)+(138)+(163)	ng/g	0.356	0.0017	0.029	N/A	N/A	N/A	N/A	4386412
22'33'45'-HexaCB-(130)	ng/g	0.0121	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'46-HexaCB-(131)	ng/g	0.0023 U	0.0023	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'46'-HexaCB-(132)	ng/g	0.0355	0.0022	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'55'-HexaCB-(133)	ng/g	0.0053 J	0.0019	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(134)+(143)	ng/g	0.0102 J	0.0021	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(135)+(151)	ng/g	0.0977	0.0022	0.020	N/A	N/A	N/A	N/A	4386412
22'33'66'-HexaCB-(136)	ng/g	0.0238	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'5-HexaCB-(137)	ng/g	0.0029 J	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(139)+(140)	ng/g	0.0026 J	0.0018	0.020	N/A	N/A	N/A	N/A	4386412
22'3455'-HexaCB-(141)	ng/g	0.0086 J	0.0018	0.0098	N/A	N/A	N/A	N/A	4386412
22'3456-HexaCB-(142)	ng/g	0.0020 U	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412
22'345'6-HexaCB-(144)	ng/g	0.0123	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412
22'3466'-HexaCB-(145)	ng/g	0.0017 U	0.0017	0.0098	N/A	N/A	N/A	N/A	4386412
22'34'55'-HexaCB-(146)	ng/g	0.0577	0.0017	0.0098	N/A	N/A	N/A	N/A	4386412

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP508							
Sampling Date		2016/01/04 14:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-2-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
HexaCB-(147)+(149)	ng/g	0.248	0.0019	0.020	N/A	N/A	N/A	N/A	4386412
22'34'56'-HexaCB-(148)	ng/g	0.0021 U	0.0021	0.0098	N/A	N/A	N/A	N/A	4386412
22'34'66'-HexaCB-(150)	ng/g	0.0018 U	0.0018	0.0098	N/A	N/A	N/A	N/A	4386412
22'3566'-HexaCB-(152)	ng/g	0.0014 U	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(153)+(168)	ng/g	0.402	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
22'44'56'-HexaCB-(154)	ng/g	0.0043 J	0.0018	0.0098	N/A	N/A	N/A	N/A	4386412
22'44'66'-HexaCB-(155)	ng/g	0.0011 U	0.0011	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(156)+(157)	ng/g	0.0205	0.00086	0.020	N/A	0.0000300	0.000000615	N/A	4386412
233'44'6-HexaCB-(158)	ng/g	0.0238	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
233'455'-HexaCB-(159)	ng/g	0.00074 U	0.00074	0.0098	N/A	N/A	N/A	N/A	4386412
233'456-HexaCB-(160)	ng/g	0.0015 U	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
233'45'6-HexaCB-(161)	ng/g	0.0013 U	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
233'4'55'-HexaCB-(162)	ng/g	0.00079 U	0.00079	0.0098	N/A	N/A	N/A	N/A	4386412
233'4'5'6-HexaCB-(164)	ng/g	0.0070 J	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
233'55'6-HexaCB-(165)	ng/g	0.0016 U	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
23'44'55'-HexaCB-(167)	ng/g	0.00964 J	0.00092	0.0098	N/A	0.0000300	0.000000289	N/A	4386412
33'44'55'-HexaCB-(169)	ng/g	0.00091 U	0.00091	0.0098	N/A	0.0300	0.0000273	N/A	4386412
22'33'44'5-HeptaCB-(170)	ng/g	0.0218	0.0018	0.0098	N/A	N/A	N/A	N/A	4386412
HeptaCB-(171)+(173)	ng/g	0.0227	0.0024	0.020	N/A	N/A	N/A	N/A	4386412
22'33'455'-HeptaCB-(172)	ng/g	0.0024 U	0.0024	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'456'-HeptaCB-(174)	ng/g	0.0024 U	0.0024	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'45'6-HeptaCB-(175)	ng/g	0.0032 J	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'466'-HeptaCB-(176)	ng/g	0.0090 J	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'45'6'-HeptaCB-(177)	ng/g	0.0443	0.0024	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'55'6-HeptaCB-(178)	ng/g	0.0180	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'566'-HeptaCB-(179)	ng/g	0.0291	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
HeptaCB-(180)+(193)	ng/g	0.114	0.0017	0.020	N/A	N/A	N/A	N/A	4386412
22'344'56-HeptaCB-(181)	ng/g	0.0026 U	0.0026	0.0098	N/A	N/A	N/A	N/A	4386412

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QC Batch = Quality Control Batch
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP508							
Sampling Date		2016/01/04 14:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-2-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'344'56'-HeptaCB-(182)	ng/g	0.0014 U	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'5'6-HeptaCB-(183)	ng/g	0.0520	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'66'-HeptaCB-(184)	ng/g	0.0011 U	0.0011	0.0098	N/A	N/A	N/A	N/A	4386412
22'3455'6-HeptaCB-(185)	ng/g	0.0027 U	0.0027	0.0098	N/A	N/A	N/A	N/A	4386412
22'34566'-HeptaCB-(186)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
22'34'55'6-HeptaCB-(187)	ng/g	0.123	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
22'34'566'-HeptaCB-(188)	ng/g	0.0010 U	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
233'44'55'-HeptaCB-(189)	ng/g	0.00536 J	0.00090	0.0098	N/A	0.0000300	0.000000161	N/A	4386412
233'44'56-HeptaCB-(190)	ng/g	0.0115	0.0017	0.0098	N/A	N/A	N/A	N/A	4386412
233'44'5'6-HeptaCB-(191)	ng/g	0.0019 J	0.0017	0.0098	N/A	N/A	N/A	N/A	4386412
233'455'6-HeptaCB-(192)	ng/g	0.0021 U	0.0021	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'55'-OctaCB-(194)	ng/g	0.0078 J	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'56-OctaCB-(195)	ng/g	0.0017 U	0.0017	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'56'-OctaCB-(196)	ng/g	0.0018 U	0.0018	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'66'OctaCB-(197)	ng/g	0.0018 J	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
OctaCB-(198)+(199)	ng/g	0.0018 U	0.0018	0.020	N/A	N/A	N/A	N/A	4386412
22'33'4566'-OctaCB-(200)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'45'66'-OctaCB-(201)	ng/g	0.0048 J	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'55'66'-OctaCB-(202)	ng/g	0.0101	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'55'6-OctaCB-(203)	ng/g	0.0088 J	0.0018	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'566'-OctaCB-(204)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
233'44'55'6-OctaCB-(205)	ng/g	0.0015 U	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'55'6-NonaCB-(206)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'566'-NonaCB-(207)	ng/g	0.00097 U	0.00097	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'455'66'-NonaCB-(208)	ng/g	0.0013 U	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
DecaCB-(209)	ng/g	0.0014 UQB	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
Total PCB	ng/g	4.13	N/A	N/A	N/A	N/A	N/A	N/A	4386412
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000285	N/A	N/A

N/A = Not Applicable
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP508							
Sampling Date		2016/01/04 14:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-2-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	111	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'55'6-NonaCB-(206)	%	82	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'5-HeptaCB-(170)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'455'66'-NonaCB-(208)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'66'-OctaCB-(202)	%	61	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'6-HeptaCB-(178)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'344'55'-HeptaCB-(180)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'34'566'-HeptaCB-(188)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'44'66'-HexaCB-(155)	%	63	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'466'-PentaCB-(104)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'66'-TetraCB-(54)	%	51	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'6-TriCB-(19)	%	50	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'-DiCB-(4)	%	44	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'6-OctaCB-(205)	%	86	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'-HeptaCB-(189)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'-PentaCB-(105)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'55'-PentaCB-(111)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'55'-HexaCB-(167)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2344'5-PentaCB-(114)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'5-PentaCB-(118)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2'344'5-PentaCB-(123)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2-MonoCB-(1)	%	63	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'55'-HexaCB-(169)	%	63	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'5-PentaCB-(126)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'-TetraCB-(77)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'5-TetraCB-(81)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'-TriCB-(37)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP508							
Sampling Date		2016/01/04 14:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-2-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-44'-DiCB-(15)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-4-MonoCB-(3)	%	58	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-DecaCB-(209)	%	79	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-HexaCB-(156)+(157)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP509							
Sampling Date		2016/01/04 09:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-PJ-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng/g	0.00063 U	0.00063	0.0099	N/A	N/A	N/A	N/A	4386412
3-MonoCB-(2)	ng/g	0.00057 U	0.00057	0.0099	N/A	N/A	N/A	N/A	4386412
4-MonoCB-(3)	ng/g	0.00063 U	0.00063	0.0099	N/A	N/A	N/A	N/A	4386412
22'-DiCB-(4)	ng/g	0.0025 U	0.0025	0.0099	N/A	N/A	N/A	N/A	4386412
2,3-DiCB-(5)	ng/g	0.0039 U	0.0039	0.0099	N/A	N/A	N/A	N/A	4386412
2,3'-DiCB-(6)	ng/g	0.0029 U	0.0029	0.0099	N/A	N/A	N/A	N/A	4386412
2,4-DiCB-(7)	ng/g	0.0033 U	0.0033	0.0099	N/A	N/A	N/A	N/A	4386412
2,4'-DiCB-(8)	ng/g	0.0070 J	0.0026	0.0099	N/A	N/A	N/A	N/A	4386412
2,5-DiCB-(9)	ng/g	0.0029 U	0.0029	0.0099	N/A	N/A	N/A	N/A	4386412
2,6-DiCB-(10)	ng/g	0.0019 U	0.0019	0.0099	N/A	N/A	N/A	N/A	4386412
3,3'-DiCB-(11)	ng/g	0.0070 JB	0.0030	0.0099	N/A	N/A	N/A	N/A	4386412
DiCB-(12)+(13)	ng/g	0.0031 U	0.0031	0.020	N/A	N/A	N/A	N/A	4386412
3,5-DiCB-(14)	ng/g	0.0029 U	0.0029	0.0099	N/A	N/A	N/A	N/A	4386412
4,4'-DiCB-(15)	ng/g	0.0194	0.0044	0.0099	N/A	N/A	N/A	N/A	4386412
22'3-TriCB-(16)	ng/g	0.0144	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
22'4-TriCB-(17)	ng/g	0.0076 J	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(18)+(30)	ng/g	0.0289	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
22'6-TriCB-(19)	ng/g	0.0041 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(20) + (28)	ng/g	0.230	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
TriCB-(21)+(33)	ng/g	0.0398	0.0012	0.020	N/A	N/A	N/A	N/A	4386412
234'-TriCB-(22)	ng/g	0.0396	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
235-TriCB-(23)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
236-TriCB-(24)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
23'4-TriCB-(25)	ng/g	0.0076 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(26)+(29)	ng/g	0.0169 J	0.0012	0.020	N/A	N/A	N/A	N/A	4386412
23'6-TriCB-(27)	ng/g	0.0045 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
24'5-TriCB-(31)	ng/g	0.0768	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
24'6-TriCB-(32)	ng/g	0.0070 U (1)	0.0070	0.0099	N/A	N/A	N/A	N/A	4386412

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP509							
Sampling Date		2016/01/04 09:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-PJ-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'5'-TriCB-(34)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
33'4-TriCB-(35)	ng/g	0.00094 U	0.00094	0.0099	N/A	N/A	N/A	N/A	4386412
33'5-TriCB-(36)	ng/g	0.00096 U	0.00096	0.0099	N/A	N/A	N/A	N/A	4386412
344'-TriCB-(37)	ng/g	0.0284	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
345-TriCB-(38)	ng/g	0.0010 U	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
34'5-TriCB-(39)	ng/g	0.0015 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(40)+(41)+(71)	ng/g	0.0758	0.0017	0.030	N/A	N/A	N/A	N/A	4386412
22'34'-TetraCB-(42)	ng/g	0.0360	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'35-TetraCB-(43)	ng/g	0.0115	0.0024	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(44)+(47)+(65)	ng/g	0.155	0.0016	0.030	N/A	N/A	N/A	N/A	4386412
TetraCB-(45)+(51)	ng/g	0.0160 J	0.0019	0.020	N/A	N/A	N/A	N/A	4386412
22'36'-TetraCB-(46)	ng/g	0.0102	0.0022	0.0099	N/A	N/A	N/A	N/A	4386412
22'45-TetraCB-(48)	ng/g	0.0474	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(49)+TetraCB-(69)	ng/g	0.0639	0.0014	0.020	N/A	N/A	N/A	N/A	4386412
TetraCB-(50)+(53)	ng/g	0.0257	0.0019	0.020	N/A	N/A	N/A	N/A	4386412
22'55'-TetraCB-(52)	ng/g	0.150	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
22'66'-TetraCB-(54)	ng/g	0.00089 U	0.00089	0.0099	N/A	N/A	N/A	N/A	4386412
233'4-TetraCB-(55)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'-Tetra CB(56)	ng/g	0.0058 J	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
233'5-TetraCB-(57)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
233'5'-TetraCB-(58)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(59)+(62)+(75)	ng/g	0.0155 J	0.0012	0.030	N/A	N/A	N/A	N/A	4386412
2344'-TetraCB -(60)	ng/g	0.0045 J	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0777	0.0013	0.039	N/A	N/A	N/A	N/A	4386412
234'5-TetraCB-(63)	ng/g	0.0025 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
234'6-TetraCB-(64)	ng/g	0.0355	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'-TetraCB-(66)	ng/g	0.0299	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
23'45-TetraCB-(67)	ng/g	0.0026 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP509							
Sampling Date		2016/01/04 09:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-PJ-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'-TetraCB-(68)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
23'55'-TetraCB-(72)	ng/g	0.0013 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
23'5'6-TetraCB-(73)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
33'44'-TetraCB-(77)	ng/g	0.0013 U	0.0013	0.0099	N/A	0.000100	0.000000130	N/A	4386412
33'45-TetraCB-(78)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
33'45'-TetraCB(79)	ng/g	0.00099 U	0.00099	0.0099	N/A	N/A	N/A	N/A	4386412
33'55'-TetraCB-(80)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
344'5-TetraCB-(81)	ng/g	0.0014 U	0.0014	0.0099	N/A	0.000300	0.000000420	N/A	4386412
22'33'4-PentaCB-(82)	ng/g	0.0038 J	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(83)+(99)	ng/g	0.0533	0.0014	0.020	N/A	N/A	N/A	N/A	4386412
22'33'6-PentaCB-(84)	ng/g	0.0083 J	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(85)+(116)+(117)	ng/g	0.0099 J	0.0011	0.030	N/A	N/A	N/A	N/A	4386412
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0294 J	0.0012	0.059	N/A	N/A	N/A	N/A	4386412
PentaCB-(88)+(91)	ng/g	0.0053 J	0.0014	0.020	N/A	N/A	N/A	N/A	4386412
22'346'-PentaCB-(89)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(90)+(101)+(113)	ng/g	0.0971	0.0012	0.030	N/A	N/A	N/A	N/A	4386412
22'355'-PentaCB-(92)	ng/g	0.0165	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0068 J	0.0014	0.039	N/A	N/A	N/A	N/A	4386412
22'356'-PentaCB-(94)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
22'35'6-PentaCB-(95)	ng/g	0.0610	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'366'-PentaCB-(96)	ng/g	0.0011 U (1)	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'45'6-PentaCB-(103)	ng/g	0.0017 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'466'-PentaCB-(104)	ng/g	0.00053 U	0.00053	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'-PentaCB-(105)	ng/g	0.0208	0.00095	0.0099	N/A	0.0000300	0.000000624	N/A	4386412
233'45-PentaCB-(106)	ng/g	0.00076 U	0.00076	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5-PentaCB-(107)	ng/g	0.00620 J	0.00080	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(108)+(124)	ng/g	0.00191 J	0.00082	0.020	N/A	N/A	N/A	N/A	4386412

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

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	Units	PG-PJ-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
PentaCB-(110)+(115)	ng/g	0.0612	0.0011	0.020	N/A	N/A	N/A	N/A	4386412
233'55'-PentaCB-(111)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
233'56-PentaCB-(112)	ng/g	0.0010 U	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
2344'5-PentaCB-(114)	ng/g	0.00091 U	0.00091	0.0099	N/A	0.0000300	0.0000000273	N/A	4386412
23'44'5-PentaCB-(118)	ng/g	0.0636 B	0.00094	0.0099	N/A	0.0000300	0.00000191	N/A	4386412
23'455'-PentaCB-(120)	ng/g	0.00090 U	0.00090	0.0099	N/A	N/A	N/A	N/A	4386412
23'45'6-PentaCB-(121)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5'-PentaCB-(122)	ng/g	0.00086 U	0.00086	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'5'-PentaCB-(123)	ng/g	0.0010 U	0.0010	0.0099	N/A	0.0000300	0.0000000300	N/A	4386412
33'44'5-PentaCB-(126)	ng/g	0.00095 U	0.00095	0.0099	N/A	0.100	0.0000950	N/A	4386412
33'455'-PentaCB-(127)	ng/g	0.00075 U	0.00075	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(128)+(166)	ng/g	0.0211	0.0022	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(129)+(138)+(163)	ng/g	0.221	0.0024	0.030	N/A	N/A	N/A	N/A	4386412
22'33'45'-HexaCB-(130)	ng/g	0.0086 J	0.0028	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'46-HexaCB-(131)	ng/g	0.0032 U	0.0032	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'46'-HexaCB-(132)	ng/g	0.0249	0.0031	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'-HexaCB-(133)	ng/g	0.0036 J	0.0026	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(134)+(143)	ng/g	0.0050 J	0.0029	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(135)+(151)	ng/g	0.0588	0.0021	0.020	N/A	N/A	N/A	N/A	4386412
22'33'66'-HexaCB-(136)	ng/g	0.0139	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'5-HexaCB-(137)	ng/g	0.0028 U	0.0028	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(139)+(140)	ng/g	0.0025 U	0.0025	0.020	N/A	N/A	N/A	N/A	4386412
22'3455'-HexaCB-(141)	ng/g	0.0066 J	0.0025	0.0099	N/A	N/A	N/A	N/A	4386412
22'3456-HexaCB-(142)	ng/g	0.0028 U	0.0028	0.0099	N/A	N/A	N/A	N/A	4386412
22'345'6-HexaCB-(144)	ng/g	0.0075 J	0.0019	0.0099	N/A	N/A	N/A	N/A	4386412
22'3466'-HexaCB-(145)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'55'-HexaCB-(146)	ng/g	0.0367	0.0024	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(147)+(149)	ng/g	0.147	0.0026	0.020	N/A	N/A	N/A	N/A	4386412

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP509							
Sampling Date		2016/01/04 09:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-PJ-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'34'56'-HexaCB-(148)	ng/g	0.0020 U	0.0020	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'66'-HexaCB-(150)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
22'3566'-HexaCB-(152)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(153)+(168)	ng/g	0.255	0.0020	0.0099	N/A	N/A	N/A	N/A	4386412
22'44'56'-HexaCB-(154)	ng/g	0.0033 J	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'44'66'-HexaCB-(155)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(156)+(157)	ng/g	0.0118 J	0.0011	0.020	N/A	0.0000300	0.000000354	N/A	4386412
233'44'6-HexaCB-(158)	ng/g	0.0147	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
233'455'-HexaCB-(159)	ng/g	0.00098 U	0.00098	0.0099	N/A	N/A	N/A	N/A	4386412
233'456-HexaCB-(160)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
233'45'6-HexaCB-(161)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'55'-HexaCB-(162)	ng/g	0.0010 U	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5'6-HexaCB-(164)	ng/g	0.0047 J	0.0019	0.0099	N/A	N/A	N/A	N/A	4386412
233'55'6-HexaCB-(165)	ng/g	0.0023 U	0.0023	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'55'-HexaCB-(167)	ng/g	0.0062 J	0.0012	0.0099	N/A	0.0000300	0.000000186	N/A	4386412
33'44'55'-HexaCB-(169)	ng/g	0.0012 U	0.0012	0.0099	N/A	0.0300	0.0000360	N/A	4386412
22'33'44'5-HeptaCB-(170)	ng/g	0.0142	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
HeptaCB-(171)+(173)	ng/g	0.0144 J	0.0017	0.020	N/A	N/A	N/A	N/A	4386412
22'33'455'-HeptaCB-(172)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'456'-HeptaCB-(174)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'6-HeptaCB-(175)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'466'-HeptaCB-(176)	ng/g	0.0049 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'6'-HeptaCB-(177)	ng/g	0.0283	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'6-HeptaCB-(178)	ng/g	0.0117	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'566'-HeptaCB-(179)	ng/g	0.0176	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
HeptaCB-(180)+(193)	ng/g	0.0669	0.0012	0.020	N/A	N/A	N/A	N/A	4386412
22'344'56-HeptaCB-(181)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'56'-HeptaCB-(182)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412

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Maxxam ID		BRP509							
Sampling Date		2016/01/04 09:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-PJ-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'344'5'6-HeptaCB-(183)	ng/g	0.0314	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'66'-HeptaCB-(184)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'3455'6-HeptaCB-(185)	ng/g	0.0019 U	0.0019	0.0099	N/A	N/A	N/A	N/A	4386412
22'34566'-HeptaCB-(186)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'55'6-HeptaCB-(187)	ng/g	0.0752	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'566'-HeptaCB-(188)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'55'-HeptaCB-(189)	ng/g	0.00192 J	0.00036	0.0099	N/A	0.0000300	0.0000000576	N/A	4386412
233'44'56-HeptaCB-(190)	ng/g	0.0067 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'5'6-HeptaCB-(191)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
233'455'6-HeptaCB-(192)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'55'-OctaCB-(194)	ng/g	0.0053 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'56-OctaCB-(195)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'56'-OctaCB-(196)	ng/g	0.0031 U	0.0031	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'66'OctaCB-(197)	ng/g	0.0024 U	0.0024	0.0099	N/A	N/A	N/A	N/A	4386412
OctaCB-(198)+(199)	ng/g	0.0032 U	0.0032	0.020	N/A	N/A	N/A	N/A	4386412
22'33'4566'-OctaCB-(200)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'66'-OctaCB-(201)	ng/g	0.0025 J	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'66'-OctaCB-(202)	ng/g	0.0060 U (1)	0.0060	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'55'6-OctaCB-(203)	ng/g	0.0056 J	0.0031	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'566'-OctaCB-(204)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'55'6-OctaCB-(205)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'55'6-NonaCB-(206)	ng/g	0.0027 U	0.0027	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'566'-NonaCB-(207)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'455'66'-NonaCB-(208)	ng/g	0.0027 U	0.0027	0.0099	N/A	N/A	N/A	N/A	4386412
DecaCB-(209)	ng/g	0.0021 UQB	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
Total PCB	ng/g	2.88	N/A	N/A	N/A	N/A	N/A	N/A	4386412
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000135	N/A	N/A

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	Units	PG-PJ-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	110	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'55'6-NonaCB-(206)	%	79	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'5-HeptaCB-(170)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'455'66'-NonaCB-(208)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'66'-OctaCB-(202)	%	60	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'6-HeptaCB-(178)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'344'55'-HeptaCB-(180)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'34'566'-HeptaCB-(188)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'44'66'-HexaCB-(155)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'466'-PentaCB-(104)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'66'-TetraCB-(54)	%	55	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'6-TriCB-(19)	%	51	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'-DiCB-(4)	%	49	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'6-OctaCB-(205)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'-HeptaCB-(189)	%	86	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'-PentaCB-(105)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'55'-PentaCB-(111)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'55'-HexaCB-(167)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2344'5-PentaCB-(114)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'5-PentaCB-(118)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2'344'5-PentaCB-(123)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2-MonoCB-(1)	%	75	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'55'-HexaCB-(169)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'5-PentaCB-(126)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'-TetraCB-(77)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'5-TetraCB-(81)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'-TriCB-(37)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP509							
Sampling Date		2016/01/04 09:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-PJ-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-44'-DiCB-(15)	%	77	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-4-MonoCB-(3)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-DecaCB-(209)	%	76	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-HexaCB-(156)+(157)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng/g	0.00062 U	0.00062	0.0099	N/A	N/A	N/A	N/A	4386412
3-MonoCB-(2)	ng/g	0.00056 U	0.00056	0.0099	N/A	N/A	N/A	N/A	4386412
4-MonoCB-(3)	ng/g	0.00062 U	0.00062	0.0099	N/A	N/A	N/A	N/A	4386412
22'-DiCB-(4)	ng/g	0.0026 U	0.0026	0.0099	N/A	N/A	N/A	N/A	4386412
2,3-DiCB-(5)	ng/g	0.0044 U	0.0044	0.0099	N/A	N/A	N/A	N/A	4386412
2,3'-DiCB-(6)	ng/g	0.0033 U	0.0033	0.0099	N/A	N/A	N/A	N/A	4386412
2,4-DiCB-(7)	ng/g	0.0037 U	0.0037	0.0099	N/A	N/A	N/A	N/A	4386412
2,4'-DiCB-(8)	ng/g	0.0098 J	0.0029	0.0099	N/A	N/A	N/A	N/A	4386412
2,5-DiCB-(9)	ng/g	0.0033 U	0.0033	0.0099	N/A	N/A	N/A	N/A	4386412
2,6-DiCB-(10)	ng/g	0.0020 U	0.0020	0.0099	N/A	N/A	N/A	N/A	4386412
3,3'-DiCB-(11)	ng/g	0.0099 JB	0.0033	0.0099	N/A	N/A	N/A	N/A	4386412
DiCB-(12)+(13)	ng/g	0.0035 U	0.0035	0.020	N/A	N/A	N/A	N/A	4386412
3,5-DiCB-(14)	ng/g	0.0032 U	0.0032	0.0099	N/A	N/A	N/A	N/A	4386412
4,4'-DiCB-(15)	ng/g	0.0284	0.0049	0.0099	N/A	N/A	N/A	N/A	4386412
22'3-TriCB-(16)	ng/g	0.0242	0.0039	0.0099	N/A	N/A	N/A	N/A	4386412
22'4-TriCB-(17)	ng/g	0.0099 J	0.0028	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(18)+(30)	ng/g	0.0429	0.0024	0.020	N/A	N/A	N/A	N/A	4386412
22'6-TriCB-(19)	ng/g	0.0056 J	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(20) + (28)	ng/g	0.353	0.00093	0.020	N/A	N/A	N/A	N/A	4386412
TriCB-(21)+(33)	ng/g	0.0605	0.00088	0.020	N/A	N/A	N/A	N/A	4386412
234'-TriCB-(22)	ng/g	0.0579	0.00098	0.0099	N/A	N/A	N/A	N/A	4386412
235-TriCB-(23)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
236-TriCB-(24)	ng/g	0.0023 U	0.0023	0.0099	N/A	N/A	N/A	N/A	4386412
23'4-TriCB-(25)	ng/g	0.0110	0.00083	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(26)+(29)	ng/g	0.0250	0.00090	0.020	N/A	N/A	N/A	N/A	4386412
23'6-TriCB-(27)	ng/g	0.0071 J	0.0019	0.0099	N/A	N/A	N/A	N/A	4386412
24'5-TriCB-(31)	ng/g	0.120	0.00083	0.0099	N/A	N/A	N/A	N/A	4386412
24'6-TriCB-(32)	ng/g	0.0103	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'5'-TriCB-(34)	ng/g	0.00089 U	0.00089	0.0099	N/A	N/A	N/A	N/A	4386412
33'4-TriCB-(35)	ng/g	0.0015 U (1)	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
33'5-TriCB-(36)	ng/g	0.00070 U	0.00070	0.0099	N/A	N/A	N/A	N/A	4386412
344'-TriCB-(37)	ng/g	0.0436	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
345-TriCB-(38)	ng/g	0.00077 U	0.00077	0.0099	N/A	N/A	N/A	N/A	4386412
34'5-TriCB-(39)	ng/g	0.00221 J	0.00084	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(40)+(41)+(71)	ng/g	0.117	0.0026	0.030	N/A	N/A	N/A	N/A	4386412
22'34'-TetraCB-(42)	ng/g	0.0544	0.0028	0.0099	N/A	N/A	N/A	N/A	4386412
22'35-TetraCB-(43)	ng/g	0.0160	0.0037	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(44)+(47)+(65)	ng/g	0.238	0.0024	0.030	N/A	N/A	N/A	N/A	4386412
TetraCB-(45)+(51)	ng/g	0.0247	0.0030	0.020	N/A	N/A	N/A	N/A	4386412
22'36'-TetraCB-(46)	ng/g	0.0149	0.0035	0.0099	N/A	N/A	N/A	N/A	4386412
22'45-TetraCB-(48)	ng/g	0.0727	0.0028	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(49)+TetraCB-(69)	ng/g	0.102	0.0023	0.020	N/A	N/A	N/A	N/A	4386412
TetraCB-(50)+(53)	ng/g	0.0395	0.0029	0.020	N/A	N/A	N/A	N/A	4386412
22'55'-TetraCB-(52)	ng/g	0.234	0.0023	0.0099	N/A	N/A	N/A	N/A	4386412
22'66'-TetraCB-(54)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
233'4-TetraCB-(55)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'-Tetra CB(56)	ng/g	0.0078 J	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
233'5-TetraCB-(57)	ng/g	0.0012 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
233'5'-TetraCB-(58)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(59)+(62)+(75)	ng/g	0.0248 J	0.0019	0.030	N/A	N/A	N/A	N/A	4386412
2344'-TetraCB -(60)	ng/g	0.0064 J	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.117	0.0013	0.040	N/A	N/A	N/A	N/A	4386412
234'5-TetraCB-(63)	ng/g	0.0044 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
234'6-TetraCB-(64)	ng/g	0.0573	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'-TetraCB-(66)	ng/g	0.0438	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45-TetraCB-(67)	ng/g	0.0042 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
23'45'-TetraCB-(68)	ng/g	0.0015 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
23'55'-TetraCB-(72)	ng/g	0.0019 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
23'5'6-TetraCB-(73)	ng/g	0.0024 U	0.0024	0.0099	N/A	N/A	N/A	N/A	4386412
33'44'-TetraCB-(77)	ng/g	0.0023 J	0.0013	0.0099	N/A	0.000100	0.000000230	N/A	4386412
33'45-TetraCB-(78)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
33'45'-TetraCB(79)	ng/g	0.00099 U	0.00099	0.0099	N/A	N/A	N/A	N/A	4386412
33'55'-TetraCB-(80)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
344'5-TetraCB-(81)	ng/g	0.0014 U	0.0014	0.0099	N/A	0.000300	0.000000420	N/A	4386412
22'33'4-PentaCB-(82)	ng/g	0.0052 J	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(83)+(99)	ng/g	0.0881	0.0016	0.020	N/A	N/A	N/A	N/A	4386412
22'33'6-PentaCB-(84)	ng/g	0.0117	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(85)+(116)+(117)	ng/g	0.0124 J	0.0012	0.030	N/A	N/A	N/A	N/A	4386412
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0417 J	0.0013	0.060	N/A	N/A	N/A	N/A	4386412
PentaCB-(88)+(91)	ng/g	0.0085 J	0.0016	0.020	N/A	N/A	N/A	N/A	4386412
22'346'-PentaCB-(89)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(90)+(101)+(113)	ng/g	0.147	0.0014	0.030	N/A	N/A	N/A	N/A	4386412
22'355'-PentaCB-(92)	ng/g	0.0241	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0101 J	0.0016	0.040	N/A	N/A	N/A	N/A	4386412
22'356'-PentaCB-(94)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'35'6-PentaCB-(95)	ng/g	0.0873	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'366'-PentaCB-(96)	ng/g	0.00188 J	0.00037	0.0099	N/A	N/A	N/A	N/A	4386412
22'45'6-PentaCB-(103)	ng/g	0.0024 J	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'466'-PentaCB-(104)	ng/g	0.00030 U	0.00030	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'-PentaCB-(105)	ng/g	0.0318	0.0012	0.0099	N/A	0.0000300	0.000000954	N/A	4386412
233'45-PentaCB-(106)	ng/g	0.00096 U	0.00096	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5-PentaCB-(107)	ng/g	0.0081 J	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(108)+(124)	ng/g	0.0029 J	0.0010	0.020	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
PentaCB-(110)+(115)	ng/g	0.0937	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
233'55'-PentaCB-(111)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
233'56-PentaCB-(112)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
2344'5-PentaCB-(114)	ng/g	0.0015 J	0.0012	0.0099	N/A	0.0000300	0.0000000450	N/A	4386412
23'44'5-PentaCB-(118)	ng/g	0.0953 B	0.0012	0.0099	N/A	0.0000300	0.00000286	N/A	4386412
23'455'-PentaCB-(120)	ng/g	0.0010 U	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
23'45'6-PentaCB-(121)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5'-PentaCB-(122)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'5'-PentaCB-(123)	ng/g	0.0013 U	0.0013	0.0099	N/A	0.0000300	0.0000000390	N/A	4386412
33'44'5-PentaCB-(126)	ng/g	0.0012 U	0.0012	0.0099	N/A	0.100	0.000120	N/A	4386412
33'455'-PentaCB-(127)	ng/g	0.00095 U	0.00095	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(128)+(166)	ng/g	0.0328	0.0015	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(129)+(138)+(163)	ng/g	0.368	0.0017	0.030	N/A	N/A	N/A	N/A	4386412
22'33'45'-HexaCB-(130)	ng/g	0.0145	0.0019	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'46-HexaCB-(131)	ng/g	0.0022 U	0.0022	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'46'-HexaCB-(132)	ng/g	0.0393	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'-HexaCB-(133)	ng/g	0.0061 J	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(134)+(143)	ng/g	0.0068 J	0.0020	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(135)+(151)	ng/g	0.0851	0.0033	0.020	N/A	N/A	N/A	N/A	4386412
22'33'66'-HexaCB-(136)	ng/g	0.0218	0.0022	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'5-HexaCB-(137)	ng/g	0.0031 J	0.0020	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(139)+(140)	ng/g	0.0031 J	0.0018	0.020	N/A	N/A	N/A	N/A	4386412
22'3455'-HexaCB-(141)	ng/g	0.0106	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'3456-HexaCB-(142)	ng/g	0.0019 U	0.0019	0.0099	N/A	N/A	N/A	N/A	4386412
22'345'6-HexaCB-(144)	ng/g	0.0109	0.0030	0.0099	N/A	N/A	N/A	N/A	4386412
22'3466'-HexaCB-(145)	ng/g	0.0026 U	0.0026	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'55'-HexaCB-(146)	ng/g	0.0628	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(147)+(149)	ng/g	0.235	0.0018	0.020	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'34'56'-HexaCB-(148)	ng/g	0.0031 U	0.0031	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'66'-HexaCB-(150)	ng/g	0.0026 U	0.0026	0.0099	N/A	N/A	N/A	N/A	4386412
22'3566'-HexaCB-(152)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(153)+(168)	ng/g	0.431	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'44'56'-HexaCB-(154)	ng/g	0.0049 J	0.0028	0.0099	N/A	N/A	N/A	N/A	4386412
22'44'66'-HexaCB-(155)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(156)+(157)	ng/g	0.0190 J	0.0015	0.020	N/A	0.0000300	0.000000570	N/A	4386412
233'44'6-HexaCB-(158)	ng/g	0.0230	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
233'455'-HexaCB-(159)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
233'456-HexaCB-(160)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
233'45'6-HexaCB-(161)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'55'-HexaCB-(162)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5'6-HexaCB-(164)	ng/g	0.0077 J	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
233'55'6-HexaCB-(165)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'55'-HexaCB-(167)	ng/g	0.0087 J	0.0016	0.0099	N/A	0.0000300	0.000000261	N/A	4386412
33'44'55'-HexaCB-(169)	ng/g	0.0016 U	0.0016	0.0099	N/A	0.0300	0.0000480	N/A	4386412
22'33'44'5-HeptaCB-(170)	ng/g	0.0256	0.0023	0.0099	N/A	N/A	N/A	N/A	4386412
HeptaCB-(171)+(173)	ng/g	0.0222	0.0032	0.020	N/A	N/A	N/A	N/A	4386412
22'33'455'-HeptaCB-(172)	ng/g	0.0031 U	0.0031	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'456'-HeptaCB-(174)	ng/g	0.0031 U	0.0031	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'6-HeptaCB-(175)	ng/g	0.0025 U	0.0025	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'466'-HeptaCB-(176)	ng/g	0.0080 J	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'6'-HeptaCB-(177)	ng/g	0.0418	0.0032	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'6-HeptaCB-(178)	ng/g	0.0183	0.0026	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'566'-HeptaCB-(179)	ng/g	0.0265	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
HeptaCB-(180)+(193)	ng/g	0.112	0.0022	0.020	N/A	N/A	N/A	N/A	4386412
22'344'56-HeptaCB-(181)	ng/g	0.0033 U	0.0033	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'56'-HeptaCB-(182)	ng/g	0.0025 U	0.0025	0.0099	N/A	N/A	N/A	N/A	4386412

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Anchor QEA, LLC
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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'344'5'6-HeptaCB-(183)	ng/g	0.0517	0.0026	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'66'-HeptaCB-(184)	ng/g	0.0020 U	0.0020	0.0099	N/A	N/A	N/A	N/A	4386412
22'3455'6-HeptaCB-(185)	ng/g	0.0035 U	0.0035	0.0099	N/A	N/A	N/A	N/A	4386412
22'34566'-HeptaCB-(186)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'55'6-HeptaCB-(187)	ng/g	0.121	0.0026	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'566'-HeptaCB-(188)	ng/g	0.0019 U	0.0019	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'55'-HeptaCB-(189)	ng/g	0.00247 J	0.00078	0.0099	N/A	0.0000300	0.0000000741	N/A	4386412
233'44'56-HeptaCB-(190)	ng/g	0.0099 J	0.0022	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'5'6-HeptaCB-(191)	ng/g	0.0022 U	0.0022	0.0099	N/A	N/A	N/A	N/A	4386412
233'455'6-HeptaCB-(192)	ng/g	0.0028 U	0.0028	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'55'-OctaCB-(194)	ng/g	0.0085 J	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'56-OctaCB-(195)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'56'-OctaCB-(196)	ng/g	0.0027 U	0.0027	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'66'OctaCB-(197)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
OctaCB-(198)+(199)	ng/g	0.0028 U	0.0028	0.020	N/A	N/A	N/A	N/A	4386412
22'33'4566'-OctaCB-(200)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'66'-OctaCB-(201)	ng/g	0.0043 J	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'66'-OctaCB-(202)	ng/g	0.0111	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'55'6-OctaCB-(203)	ng/g	0.0092 J	0.0027	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'566'-OctaCB-(204)	ng/g	0.0019 U	0.0019	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'55'6-OctaCB-(205)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'55'6-NonaCB-(206)	ng/g	0.0022 U	0.0022	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'566'-NonaCB-(207)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'455'66'-NonaCB-(208)	ng/g	0.0022 U	0.0022	0.0099	N/A	N/A	N/A	N/A	4386412
DecaCB-(209)	ng/g	0.0029 UQB	0.0029	0.0099	N/A	N/A	N/A	N/A	4386412
Total PCB	ng/g	4.55	N/A	N/A	N/A	N/A	N/A	N/A	4386412
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000173	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'33'44'55'6-NonaCB-(206)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'5-HeptaCB-(170)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'455'66'-NonaCB-(208)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'66'-OctaCB-(202)	%	59	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'6-HeptaCB-(178)	%	76	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'344'55'-HeptaCB-(180)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'34'566'-HeptaCB-(188)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'44'66'-HexaCB-(155)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'466'-PentaCB-(104)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'66'-TetraCB-(54)	%	55	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'6-TriCB-(19)	%	54	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'-DiCB-(4)	%	49	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'6-OctaCB-(205)	%	86	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'-HeptaCB-(189)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'-PentaCB-(105)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'55'-PentaCB-(111)	%	83	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'55'-HexaCB-(167)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2344'5-PentaCB-(114)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'5-PentaCB-(118)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2'344'5-PentaCB-(123)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2-MonoCB-(1)	%	73	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'55'-HexaCB-(169)	%	66	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'5-PentaCB-(126)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'-TetraCB-(77)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'5-TetraCB-(81)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'-TriCB-(37)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-44'-DiCB-(15)	%	78	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-4-MonoCB-(3)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				**TOXIC EQUIVALENCY**		**# of**	
	Units	**PG-WS-1-MUS-COC-160104**	**EDL**	**RDL**	**MDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
C13-DecaCB-(209)	%	78	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-HexaCB-(156)+(157)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng/g	0.00063 U	0.00063	0.0098	N/A	N/A	N/A	N/A	4386412
3-MonoCB-(2)	ng/g	0.00057 U	0.00057	0.0098	N/A	N/A	N/A	N/A	4386412
4-MonoCB-(3)	ng/g	0.00063 U	0.00063	0.0098	N/A	N/A	N/A	N/A	4386412
22'-DiCB-(4)	ng/g	0.0034 J	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412
2,3-DiCB-(5)	ng/g	0.0029 U	0.0029	0.0098	N/A	N/A	N/A	N/A	4386412
2,3'-DiCB-(6)	ng/g	0.0026 J	0.0022	0.0098	N/A	N/A	N/A	N/A	4386412
2,4-DiCB-(7)	ng/g	0.0025 U	0.0025	0.0098	N/A	N/A	N/A	N/A	4386412
2,4'-DiCB-(8)	ng/g	0.0090 J	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412
2,5-DiCB-(9)	ng/g	0.0022 U	0.0022	0.0098	N/A	N/A	N/A	N/A	4386412
2,6-DiCB-(10)	ng/g	0.0016 U	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
3,3'-DiCB-(11)	ng/g	0.0081 JB	0.0022	0.0098	N/A	N/A	N/A	N/A	4386412
DiCB-(12)+(13)	ng/g	0.0024 U	0.0024	0.020	N/A	N/A	N/A	N/A	4386412
3,5-DiCB-(14)	ng/g	0.0022 U	0.0022	0.0098	N/A	N/A	N/A	N/A	4386412
4,4'-DiCB-(15)	ng/g	0.0270	0.0033	0.0098	N/A	N/A	N/A	N/A	4386412
22'3-TriCB-(16)	ng/g	0.0241	0.0046	0.0098	N/A	N/A	N/A	N/A	4386412
22'4-TriCB-(17)	ng/g	0.0095 J	0.0034	0.0098	N/A	N/A	N/A	N/A	4386412
TriCB-(18)+(30)	ng/g	0.0429	0.0028	0.020	N/A	N/A	N/A	N/A	4386412
22'6-TriCB-(19)	ng/g	0.0053 J	0.0026	0.0098	N/A	N/A	N/A	N/A	4386412
TriCB-(20) + (28)	ng/g	0.341	0.00090	0.020	N/A	N/A	N/A	N/A	4386412
TriCB-(21)+(33)	ng/g	0.0602	0.00085	0.020	N/A	N/A	N/A	N/A	4386412
234'-TriCB-(22)	ng/g	0.0570	0.00095	0.0098	N/A	N/A	N/A	N/A	4386412
235-TriCB-(23)	ng/g	0.0010 U	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
236-TriCB-(24)	ng/g	0.0027 U	0.0027	0.0098	N/A	N/A	N/A	N/A	4386412
23'4-TriCB-(25)	ng/g	0.0107	0.00080	0.0098	N/A	N/A	N/A	N/A	4386412
TriCB-(26)+(29)	ng/g	0.0241	0.00087	0.020	N/A	N/A	N/A	N/A	4386412
23'6-TriCB-(27)	ng/g	0.0070 J	0.0023	0.0098	N/A	N/A	N/A	N/A	4386412
24'5-TriCB-(31)	ng/g	0.118	0.00080	0.0098	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
24'6-TriCB-(32)	ng/g	0.0106	0.0021	0.0098	N/A	N/A	N/A	N/A	4386412
23'5'-TriCB-(34)	ng/g	0.00086 U	0.00086	0.0098	N/A	N/A	N/A	N/A	4386412
33'4-TriCB-(35)	ng/g	0.00209 J	0.00067	0.0098	N/A	N/A	N/A	N/A	4386412
33'5-TriCB-(36)	ng/g	0.00068 U	0.00068	0.0098	N/A	N/A	N/A	N/A	4386412
344'-TriCB-(37)	ng/g	0.0428	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
345-TriCB-(38)	ng/g	0.00074 U	0.00074	0.0098	N/A	N/A	N/A	N/A	4386412
34'5-TriCB-(39)	ng/g	0.00202 J	0.00081	0.0098	N/A	N/A	N/A	N/A	4386412
TetraCB-(40)+(41)+(71)	ng/g	0.119	0.0025	0.029	N/A	N/A	N/A	N/A	4386412
22'34'-TetraCB-(42)	ng/g	0.0554	0.0027	0.0098	N/A	N/A	N/A	N/A	4386412
22'35-TetraCB-(43)	ng/g	0.0170	0.0036	0.0098	N/A	N/A	N/A	N/A	4386412
TetraCB-(44)+(47)+(65)	ng/g	0.237	0.0024	0.029	N/A	N/A	N/A	N/A	4386412
TetraCB-(45)+(51)	ng/g	0.0246	0.0029	0.020	N/A	N/A	N/A	N/A	4386412
22'36'-TetraCB-(46)	ng/g	0.0145	0.0033	0.0098	N/A	N/A	N/A	N/A	4386412
22'45-TetraCB-(48)	ng/g	0.0729	0.0027	0.0098	N/A	N/A	N/A	N/A	4386412
TetraCB-(49)+TetraCB-(69)	ng/g	0.0999	0.0022	0.020	N/A	N/A	N/A	N/A	4386412
TetraCB-(50)+(53)	ng/g	0.0401	0.0028	0.020	N/A	N/A	N/A	N/A	4386412
22'55'-TetraCB-(52)	ng/g	0.233	0.0022	0.0098	N/A	N/A	N/A	N/A	4386412
22'66'-TetraCB-(54)	ng/g	0.0014 U	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
233'4-TetraCB-(55)	ng/g	0.00093 U	0.00093	0.0098	N/A	N/A	N/A	N/A	4386412
233'4'-Tetra CB(56)	ng/g	0.00756 J	0.00093	0.0098	N/A	N/A	N/A	N/A	4386412
233'5-TetraCB-(57)	ng/g	0.00103 J	0.00076	0.0098	N/A	N/A	N/A	N/A	4386412
233'5'-TetraCB-(58)	ng/g	0.00090 U	0.00090	0.0098	N/A	N/A	N/A	N/A	4386412
TetraCB-(59)+(62)+(75)	ng/g	0.0239 J	0.0018	0.029	N/A	N/A	N/A	N/A	4386412
2344'-TetraCB -(60)	ng/g	0.00619 J	0.00094	0.0098	N/A	N/A	N/A	N/A	4386412
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.112	0.00084	0.039	N/A	N/A	N/A	N/A	4386412
234'5-TetraCB-(63)	ng/g	0.00411 J	0.00074	0.0098	N/A	N/A	N/A	N/A	4386412
234'6-TetraCB-(64)	ng/g	0.0580	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412

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	Units	PG-WS-1-MUS-COC-160104 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'44'-TetraCB-(66)	ng/g	0.0440	0.00075	0.0098	N/A	N/A	N/A	N/A	4386412
23'45-TetraCB-(67)	ng/g	0.00406 J	0.00069	0.0098	N/A	N/A	N/A	N/A	4386412
23'45'-TetraCB-(68)	ng/g	0.00171 J	0.00076	0.0098	N/A	N/A	N/A	N/A	4386412
23'55'-TetraCB-(72)	ng/g	0.00210 J	0.00071	0.0098	N/A	N/A	N/A	N/A	4386412
23'5'6-TetraCB-(73)	ng/g	0.0023 U	0.0023	0.0098	N/A	N/A	N/A	N/A	4386412
33'44'-TetraCB-(77)	ng/g	0.00214 J	0.00086	0.0098	N/A	0.000100	0.000000214	N/A	4386412
33'45-TetraCB-(78)	ng/g	0.00072 U	0.00072	0.0098	N/A	N/A	N/A	N/A	4386412
33'45'-TetraCB(79)	ng/g	0.00088 J	0.00063	0.0098	N/A	N/A	N/A	N/A	4386412
33'55'-TetraCB-(80)	ng/g	0.00076 U	0.00076	0.0098	N/A	N/A	N/A	N/A	4386412
344'5-TetraCB-(81)	ng/g	0.00090 U	0.00090	0.0098	N/A	0.000300	0.000000270	N/A	4386412
22'33'4-PentaCB-(82)	ng/g	0.00504 J	0.00081	0.0098	N/A	N/A	N/A	N/A	4386412
PentaCB-(83)+(99)	ng/g	0.0852	0.00074	0.020	N/A	N/A	N/A	N/A	4386412
22'33'6-PentaCB-(84)	ng/g	0.0119	0.00086	0.0098	N/A	N/A	N/A	N/A	4386412
PentaCB-(85)+(116)+(117)	ng/g	0.0156 J	0.00058	0.029	N/A	N/A	N/A	N/A	4386412
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0416 J	0.00063	0.059	N/A	N/A	N/A	N/A	4386412
PentaCB-(88)+(91)	ng/g	0.00835 J	0.00073	0.020	N/A	N/A	N/A	N/A	4386412
22'346'-PentaCB-(89)	ng/g	0.00079 U	0.00079	0.0098	N/A	N/A	N/A	N/A	4386412
PentaCB-(90)+(101)+(113)	ng/g	0.144	0.00065	0.029	N/A	N/A	N/A	N/A	4386412
22'355'-PentaCB-(92)	ng/g	0.0236	0.00077	0.0098	N/A	N/A	N/A	N/A	4386412
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.00917 J	0.00074	0.039	N/A	N/A	N/A	N/A	4386412
22'356'-PentaCB-(94)	ng/g	0.00085 U	0.00085	0.0098	N/A	N/A	N/A	N/A	4386412
22'35'6-PentaCB-(95)	ng/g	0.0859	0.00067	0.0098	N/A	N/A	N/A	N/A	4386412
22'366'-PentaCB-(96)	ng/g	0.0015 U (1)	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
22'45'6-PentaCB-(103)	ng/g	0.00235 J	0.00062	0.0098	N/A	N/A	N/A	N/A	4386412
22'466'-PentaCB-(104)	ng/g	0.00021 U	0.00021	0.0098	N/A	N/A	N/A	N/A	4386412
233'44'-PentaCB-(105)	ng/g	0.0306	0.0011	0.0098	N/A	0.0000300	0.000000918	N/A	4386412
233'45-PentaCB-(106)	ng/g	0.00088 U	0.00088	0.0098	N/A	N/A	N/A	N/A	4386412

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'4'5-PentaCB-(107)	ng/g	0.00720 J	0.00093	0.0098	N/A	N/A	N/A	N/A	4386412
PentaCB-(108)+(124)	ng/g	0.00284 J	0.00096	0.020	N/A	N/A	N/A	N/A	4386412
PentaCB-(110)+(115)	ng/g	0.0881	0.00061	0.020	N/A	N/A	N/A	N/A	4386412
233'55'-PentaCB-(111)	ng/g	0.00057 U	0.00057	0.0098	N/A	N/A	N/A	N/A	4386412
233'56-PentaCB-(112)	ng/g	0.00056 U	0.00056	0.0098	N/A	N/A	N/A	N/A	4386412
2344'5-PentaCB-(114)	ng/g	0.0015 J	0.0011	0.0098	N/A	0.0000300	0.0000000450	N/A	4386412
23'44'5-PentaCB-(118)	ng/g	0.0917 B	0.0011	0.0098	N/A	0.0000300	0.00000275	N/A	4386412
23'455'-PentaCB-(120)	ng/g	0.00048 U	0.00048	0.0098	N/A	N/A	N/A	N/A	4386412
23'45'6-PentaCB-(121)	ng/g	0.00060 U	0.00060	0.0098	N/A	N/A	N/A	N/A	4386412
233'4'5'-PentaCB-(122)	ng/g	0.00099 U	0.00099	0.0098	N/A	N/A	N/A	N/A	4386412
23'44'5'-PentaCB-(123)	ng/g	0.0012 U	0.0012	0.0098	N/A	0.0000300	0.0000000360	N/A	4386412
33'44'5-PentaCB-(126)	ng/g	0.0011 U	0.0011	0.0098	N/A	0.100	0.000110	N/A	4386412
33'455'-PentaCB-(127)	ng/g	0.00087 U	0.00087	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(128)+(166)	ng/g	0.0315	0.0011	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(129)+(138)+(163)	ng/g	0.361	0.0012	0.029	N/A	N/A	N/A	N/A	4386412
22'33'45'-HexaCB-(130)	ng/g	0.0130	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'46-HexaCB-(131)	ng/g	0.0016 U	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'46'-HexaCB-(132)	ng/g	0.0394	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'55'-HexaCB-(133)	ng/g	0.0058 J	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(134)+(143)	ng/g	0.0064 J	0.0014	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(135)+(151)	ng/g	0.0844	0.0029	0.020	N/A	N/A	N/A	N/A	4386412
22'33'66'-HexaCB-(136)	ng/g	0.0210	0.0020	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'5-HexaCB-(137)	ng/g	0.0039 J	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(139)+(140)	ng/g	0.0028 J	0.0012	0.020	N/A	N/A	N/A	N/A	4386412
22'3455'-HexaCB-(141)	ng/g	0.0112	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
22'3456-HexaCB-(142)	ng/g	0.0013 U	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
22'345'6-HexaCB-(144)	ng/g	0.0106	0.0027	0.0098	N/A	N/A	N/A	N/A	4386412

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Maxxam ID		BRP510							
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	Units	PG-WS-1-MUS-COC-160104 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'3466'-HexaCB-(145)	ng/g	0.0023 U	0.0023	0.0098	N/A	N/A	N/A	N/A	4386412
22'34'55'-HexaCB-(146)	ng/g	0.0619	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(147)+(149)	ng/g	0.234	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
22'34'56'-HexaCB-(148)	ng/g	0.0027 U	0.0027	0.0098	N/A	N/A	N/A	N/A	4386412
22'34'66'-HexaCB-(150)	ng/g	0.0023 U	0.0023	0.0098	N/A	N/A	N/A	N/A	4386412
22'3566'-HexaCB-(152)	ng/g	0.0019 U	0.0019	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(153)+(168)	ng/g	0.426	0.00099	0.0098	N/A	N/A	N/A	N/A	4386412
22'44'56'-HexaCB-(154)	ng/g	0.0050 J	0.0024	0.0098	N/A	N/A	N/A	N/A	4386412
22'44'66'-HexaCB-(155)	ng/g	0.0015 U	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
HexaCB-(156)+(157)	ng/g	0.0181 J	0.0014	0.020	N/A	0.0000300	0.000000543	N/A	4386412
233'44'6-HexaCB-(158)	ng/g	0.0227	0.00084	0.0098	N/A	N/A	N/A	N/A	4386412
233'455'-HexaCB-(159)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
233'456-HexaCB-(160)	ng/g	0.0010 U	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
233'45'6-HexaCB-(161)	ng/g	0.00087 U	0.00087	0.0098	N/A	N/A	N/A	N/A	4386412
233'4'55'-HexaCB-(162)	ng/g	0.0013 U	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
233'4'5'6-HexaCB-(164)	ng/g	0.00715 J	0.00092	0.0098	N/A	N/A	N/A	N/A	4386412
233'55'6-HexaCB-(165)	ng/g	0.0011 U	0.0011	0.0098	N/A	N/A	N/A	N/A	4386412
23'44'55'-HexaCB-(167)	ng/g	0.0085 J	0.0015	0.0098	N/A	0.0000300	0.000000255	N/A	4386412
33'44'55'-HexaCB-(169)	ng/g	0.0015 U	0.0015	0.0098	N/A	0.0300	0.0000450	N/A	4386412
22'33'44'5-HeptaCB-(170)	ng/g	0.0250	0.0010	0.0098	N/A	N/A	N/A	N/A	4386412
HeptaCB-(171)+(173)	ng/g	0.0221	0.0014	0.020	N/A	N/A	N/A	N/A	4386412
22'33'455'-HeptaCB-(172)	ng/g	0.0025 J	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'456'-HeptaCB-(174)	ng/g	0.0014 U	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'45'6-HeptaCB-(175)	ng/g	0.0029 J	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'466'-HeptaCB-(176)	ng/g	0.0079 J	0.0011	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'45'6'-HeptaCB-(177)	ng/g	0.0418	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'55'6-HeptaCB-(178)	ng/g	0.0182	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412

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22'33'566'-HeptaCB-(179)	ng/g	0.0257	0.0011	0.0098	N/A	N/A	N/A	N/A	4386412
HeptaCB-(180)+(193)	ng/g	0.111	0.00096	0.020	N/A	N/A	N/A	N/A	4386412
22'344'56-HeptaCB-(181)	ng/g	0.0015 U	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'56'-HeptaCB-(182)	ng/g	0.0015 U	0.0015	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'5'6-HeptaCB-(183)	ng/g	0.0514	0.0011	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'66'-HeptaCB-(184)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
22'3455'6-HeptaCB-(185)	ng/g	0.0016 U	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
22'34566'-HeptaCB-(186)	ng/g	0.0013 U	0.0013	0.0098	N/A	N/A	N/A	N/A	4386412
22'34'55'6-HeptaCB-(187)	ng/g	0.122	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
22'34'566'-HeptaCB-(188)	ng/g	0.0011 U	0.0011	0.0098	N/A	N/A	N/A	N/A	4386412
233'44'55'-HeptaCB-(189)	ng/g	0.00271 J	0.00043	0.0098	N/A	0.0000300	0.0000000813	N/A	4386412
233'44'56-HeptaCB-(190)	ng/g	0.0103	0.00098	0.0098	N/A	N/A	N/A	N/A	4386412
233'44'5'6-HeptaCB-(191)	ng/g	0.00232 J	0.00098	0.0098	N/A	N/A	N/A	N/A	4386412
233'455'6-HeptaCB-(192)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'55'-OctaCB-(194)	ng/g	0.0080 U (1)	0.0080	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'56-OctaCB-(195)	ng/g	0.0016 U	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'56'-OctaCB-(196)	ng/g	0.0028 U	0.0028	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'66'OctaCB-(197)	ng/g	0.0021 U	0.0021	0.0098	N/A	N/A	N/A	N/A	4386412
OctaCB-(198)+(199)	ng/g	0.0028 U	0.0028	0.020	N/A	N/A	N/A	N/A	4386412
22'33'4566'-OctaCB-(200)	ng/g	0.0018 U	0.0018	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'45'66'-OctaCB-(201)	ng/g	0.0042 J	0.0019	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'55'66'-OctaCB-(202)	ng/g	0.0101	0.0019	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'55'6-OctaCB-(203)	ng/g	0.0092 J	0.0028	0.0098	N/A	N/A	N/A	N/A	4386412
22'344'566'-OctaCB-(204)	ng/g	0.0019 U	0.0019	0.0098	N/A	N/A	N/A	N/A	4386412
233'44'55'6-OctaCB-(205)	ng/g	0.0014 U	0.0014	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'55'6-NonaCB-(206)	ng/g	0.0016 U	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
22'33'44'566'-NonaCB-(207)	ng/g	0.0012 U	0.0012	0.0098	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	**PG-WS-1-MUS-COC-160104 Lab-Dup**	**EDL**	**RDL**	**MDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
22'33'455'66'-NonaCB-(208)	ng/g	0.0016 U	0.0016	0.0098	N/A	N/A	N/A	N/A	4386412
DecaCB-(209)	ng/g	0.0026 UQB	0.0026	0.0098	N/A	N/A	N/A	N/A	4386412
Total PCB	ng/g	4.49	N/A	N/A	N/A	N/A	N/A	N/A	4386412
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000160	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	113	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'55'6-NonaCB-(206)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'5-HeptaCB-(170)	%	73	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'455'66'-NonaCB-(208)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'66'-OctaCB-(202)	%	62	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'6-HeptaCB-(178)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'344'55'-HeptaCB-(180)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'34'566'-HeptaCB-(188)	%	73	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'44'66'-HexaCB-(155)	%	67	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'466'-PentaCB-(104)	%	75	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'66'-TetraCB-(54)	%	57	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'6-TriCB-(19)	%	58	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'-DiCB-(4)	%	53	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'6-OctaCB-(205)	%	86	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'-HeptaCB-(189)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'-PentaCB-(105)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'55'-PentaCB-(111)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'55'-HexaCB-(167)	%	90	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2344'5-PentaCB-(114)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'5-PentaCB-(118)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2'344'5-PentaCB-(123)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2-MonoCB-(1)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP510							
Sampling Date		2016/01/04 11:45							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-WS-1-MUS-COC-160104 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-33'44'55'-HexaCB-(169)	%	64	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'5-PentaCB-(126)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'-TetraCB-(77)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'5-TetraCB-(81)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'-TriCB-(37)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-44'-DiCB-(15)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-4-MonoCB-(3)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-DecaCB-(209)	%	79	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-HexaCB-(156)+(157)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP511							
Sampling Date		2016/01/04 10:10							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-GP-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng/g	0.00073 U	0.00073	0.010	N/A	N/A	N/A	N/A	4386412
3-MonoCB-(2)	ng/g	0.00066 U	0.00066	0.010	N/A	N/A	N/A	N/A	4386412
4-MonoCB-(3)	ng/g	0.00073 U	0.00073	0.010	N/A	N/A	N/A	N/A	4386412
22'-DiCB-(4)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	4386412
2,3-DiCB-(5)	ng/g	0.0038 U	0.0038	0.010	N/A	N/A	N/A	N/A	4386412
2,3'-DiCB-(6)	ng/g	0.0029 U	0.0029	0.010	N/A	N/A	N/A	N/A	4386412
2,4-DiCB-(7)	ng/g	0.0032 U	0.0032	0.010	N/A	N/A	N/A	N/A	4386412
2,4'-DiCB-(8)	ng/g	0.0069 U (1)	0.0069	0.010	N/A	N/A	N/A	N/A	4386412
2,5-DiCB-(9)	ng/g	0.0029 U	0.0029	0.010	N/A	N/A	N/A	N/A	4386412
2,6-DiCB-(10)	ng/g	0.0018 U	0.0018	0.010	N/A	N/A	N/A	N/A	4386412
3,3'-DiCB-(11)	ng/g	0.0069 JB	0.0029	0.010	N/A	N/A	N/A	N/A	4386412
DiCB-(12)+(13)	ng/g	0.0031 U	0.0031	0.020	N/A	N/A	N/A	N/A	4386412
3,5-DiCB-(14)	ng/g	0.0028 U	0.0028	0.010	N/A	N/A	N/A	N/A	4386412
4,4'-DiCB-(15)	ng/g	0.0224	0.0043	0.010	N/A	N/A	N/A	N/A	4386412
22'3-TriCB-(16)	ng/g	0.0178	0.0029	0.010	N/A	N/A	N/A	N/A	4386412
22'4-TriCB-(17)	ng/g	0.0078 J	0.0022	0.010	N/A	N/A	N/A	N/A	4386412
TriCB-(18)+(30)	ng/g	0.0303	0.0018	0.020	N/A	N/A	N/A	N/A	4386412
22'6-TriCB-(19)	ng/g	0.0044 J	0.0016	0.010	N/A	N/A	N/A	N/A	4386412
TriCB-(20) + (28)	ng/g	0.263	0.00081	0.020	N/A	N/A	N/A	N/A	4386412
TriCB-(21)+(33)	ng/g	0.0439	0.00077	0.020	N/A	N/A	N/A	N/A	4386412
234'-TriCB-(22)	ng/g	0.0399	0.00085	0.010	N/A	N/A	N/A	N/A	4386412
235-TriCB-(23)	ng/g	0.00093 U	0.00093	0.010	N/A	N/A	N/A	N/A	4386412
236-TriCB-(24)	ng/g	0.0017 U	0.0017	0.010	N/A	N/A	N/A	N/A	4386412
23'4-TriCB-(25)	ng/g	0.00799 J	0.00072	0.010	N/A	N/A	N/A	N/A	4386412
TriCB-(26)+(29)	ng/g	0.0181 J	0.00079	0.020	N/A	N/A	N/A	N/A	4386412
23'6-TriCB-(27)	ng/g	0.0050 J	0.0015	0.010	N/A	N/A	N/A	N/A	4386412
24'5-TriCB-(31)	ng/g	0.0832	0.00072	0.010	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP511							
Sampling Date		2016/01/04 10:10							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-GP-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
24'6-TriCB-(32)	ng/g	0.0082 J	0.0013	0.010	N/A	N/A	N/A	N/A	4386412
23'5'-TriCB-(34)	ng/g	0.00078 U	0.00078	0.010	N/A	N/A	N/A	N/A	4386412
33'4-TriCB-(35)	ng/g	0.00060 U	0.00060	0.010	N/A	N/A	N/A	N/A	4386412
33'5-TriCB-(36)	ng/g	0.00061 U	0.00061	0.010	N/A	N/A	N/A	N/A	4386412
344'-TriCB-(37)	ng/g	0.0324	0.0011	0.010	N/A	N/A	N/A	N/A	4386412
345-TriCB-(38)	ng/g	0.00067 U	0.00067	0.010	N/A	N/A	N/A	N/A	4386412
34'5-TriCB-(39)	ng/g	0.00171 J	0.00073	0.010	N/A	N/A	N/A	N/A	4386412
TetraCB-(40)+(41)+(71)	ng/g	0.0831	0.0016	0.030	N/A	N/A	N/A	N/A	4386412
22'34'-TetraCB-(42)	ng/g	0.0375	0.0017	0.010	N/A	N/A	N/A	N/A	4386412
22'35-TetraCB-(43)	ng/g	0.0122	0.0022	0.010	N/A	N/A	N/A	N/A	4386412
TetraCB-(44)+(47)+(65)	ng/g	0.171	0.0014	0.030	N/A	N/A	N/A	N/A	4386412
TetraCB-(45)+(51)	ng/g	0.0174 J	0.0018	0.020	N/A	N/A	N/A	N/A	4386412
22'36'-TetraCB-(46)	ng/g	0.0116	0.0020	0.010	N/A	N/A	N/A	N/A	4386412
22'45-TetraCB-(48)	ng/g	0.0541	0.0017	0.010	N/A	N/A	N/A	N/A	4386412
TetraCB-(49)+TetraCB-(69)	ng/g	0.0667	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
TetraCB-(50)+(53)	ng/g	0.0293	0.0017	0.020	N/A	N/A	N/A	N/A	4386412
22'55'-TetraCB-(52)	ng/g	0.168	0.0014	0.010	N/A	N/A	N/A	N/A	4386412
22'66'-TetraCB-(54)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	4386412
233'4-TetraCB-(55)	ng/g	0.0017 U	0.0017	0.010	N/A	N/A	N/A	N/A	4386412
233'4'-Tetra CB(56)	ng/g	0.0055 J	0.0017	0.010	N/A	N/A	N/A	N/A	4386412
233'5-TetraCB-(57)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	4386412
233'5'-TetraCB-(58)	ng/g	0.0017 U	0.0017	0.010	N/A	N/A	N/A	N/A	4386412
TetraCB-(59)+(62)+(75)	ng/g	0.0176 J	0.0011	0.030	N/A	N/A	N/A	N/A	4386412
2344'-TetraCB -(60)	ng/g	0.0047 J	0.0018	0.010	N/A	N/A	N/A	N/A	4386412
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0886	0.0016	0.040	N/A	N/A	N/A	N/A	4386412
234'5-TetraCB-(63)	ng/g	0.0032 J	0.0014	0.010	N/A	N/A	N/A	N/A	4386412
234'6-TetraCB-(64)	ng/g	0.0370	0.0012	0.010	N/A	N/A	N/A	N/A	4386412
23'44'-TetraCB-(66)	ng/g	0.0339	0.0014	0.010	N/A	N/A	N/A	N/A	4386412

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP511							
Sampling Date		2016/01/04 10:10							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-GP-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45-TetraCB-(67)	ng/g	0.0031 J	0.0013	0.010	N/A	N/A	N/A	N/A	4386412
23'45'-TetraCB-(68)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	4386412
23'55'-TetraCB-(72)	ng/g	0.0017 J	0.0013	0.010	N/A	N/A	N/A	N/A	4386412
23'5'6-TetraCB-(73)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	4386412
33'44'-TetraCB-(77)	ng/g	0.0016 J	0.0016	0.010	N/A	0.000100	0.000000160	N/A	4386412
33'45-TetraCB-(78)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	4386412
33'45'-TetraCB(79)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	4386412
33'55'-TetraCB-(80)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	4386412
344'5-TetraCB-(81)	ng/g	0.0017 U	0.0017	0.010	N/A	0.000300	0.000000510	N/A	4386412
22'33'4-PentaCB-(82)	ng/g	0.0039 J	0.0010	0.010	N/A	N/A	N/A	N/A	4386412
PentaCB-(83)+(99)	ng/g	0.0597	0.00090	0.020	N/A	N/A	N/A	N/A	4386412
22'33'6-PentaCB-(84)	ng/g	0.0087 J	0.0011	0.010	N/A	N/A	N/A	N/A	4386412
PentaCB-(85)+(116)+(117)	ng/g	0.0115 J	0.00071	0.030	N/A	N/A	N/A	N/A	4386412
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0310 J	0.00077	0.060	N/A	N/A	N/A	N/A	4386412
PentaCB-(88)+(91)	ng/g	0.00559 J	0.00090	0.020	N/A	N/A	N/A	N/A	4386412
22'346'-PentaCB-(89)	ng/g	0.00096 U	0.00096	0.010	N/A	N/A	N/A	N/A	4386412
PentaCB-(90)+(101)+(113)	ng/g	0.105	0.00079	0.030	N/A	N/A	N/A	N/A	4386412
22'355'-PentaCB-(92)	ng/g	0.0179	0.00094	0.010	N/A	N/A	N/A	N/A	4386412
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.00776 J	0.00091	0.040	N/A	N/A	N/A	N/A	4386412
22'356'-PentaCB-(94)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	4386412
22'35'6-PentaCB-(95)	ng/g	0.0647	0.00082	0.010	N/A	N/A	N/A	N/A	4386412
22'366'-PentaCB-(96)	ng/g	0.0011 U (1)	0.0011	0.010	N/A	N/A	N/A	N/A	4386412
22'45'6-PentaCB-(103)	ng/g	0.00159 J	0.00076	0.010	N/A	N/A	N/A	N/A	4386412
22'466'-PentaCB-(104)	ng/g	0.00043 U	0.00043	0.010	N/A	N/A	N/A	N/A	4386412
233'44'-PentaCB-(105)	ng/g	0.0235	0.0011	0.010	N/A	0.0000300	0.000000705	N/A	4386412
233'45-PentaCB-(106)	ng/g	0.00088 U	0.00088	0.010	N/A	N/A	N/A	N/A	4386412
233'4'5-PentaCB-(107)	ng/g	0.00670 J	0.00093	0.010	N/A	N/A	N/A	N/A	4386412

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RDL = Reportable Detection Limit
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QC Batch = Quality Control Batch
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP511							
Sampling Date		2016/01/04 10:10							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-GP-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
PentaCB-(108)+(124)	ng/g	0.00242 J	0.00096	0.020	N/A	N/A	N/A	N/A	4386412
PentaCB-(110)+(115)	ng/g	0.0648	0.00075	0.020	N/A	N/A	N/A	N/A	4386412
233'55'-PentaCB-(111)	ng/g	0.00069 U	0.00069	0.010	N/A	N/A	N/A	N/A	4386412
233'56-PentaCB-(112)	ng/g	0.00069 U	0.00069	0.010	N/A	N/A	N/A	N/A	4386412
2344'5-PentaCB-(114)	ng/g	0.0011 U	0.0011	0.010	N/A	0.0000300	0.0000000330	N/A	4386412
23'44'5-PentaCB-(118)	ng/g	0.0700 B	0.0011	0.010	N/A	0.0000300	0.00000210	N/A	4386412
23'455'-PentaCB-(120)	ng/g	0.00059 U	0.00059	0.010	N/A	N/A	N/A	N/A	4386412
23'45'6-PentaCB-(121)	ng/g	0.00074 U	0.00074	0.010	N/A	N/A	N/A	N/A	4386412
233'4'5'-PentaCB-(122)	ng/g	0.00099 U	0.00099	0.010	N/A	N/A	N/A	N/A	4386412
23'44'5'-PentaCB-(123)	ng/g	0.0012 U	0.0012	0.010	N/A	0.0000300	0.0000000360	N/A	4386412
33'44'5-PentaCB-(126)	ng/g	0.0011 U	0.0011	0.010	N/A	0.100	0.000110	N/A	4386412
33'455'-PentaCB-(127)	ng/g	0.00087 U	0.00087	0.010	N/A	N/A	N/A	N/A	4386412
HexaCB-(128)+(166)	ng/g	0.0228	0.0025	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(129)+(138)+(163)	ng/g	0.245	0.0027	0.030	N/A	N/A	N/A	N/A	4386412
22'33'45'-HexaCB-(130)	ng/g	0.0096 J	0.0031	0.010	N/A	N/A	N/A	N/A	4386412
22'33'46-HexaCB-(131)	ng/g	0.0036 U	0.0036	0.010	N/A	N/A	N/A	N/A	4386412
22'33'46'-HexaCB-(132)	ng/g	0.0238	0.0034	0.010	N/A	N/A	N/A	N/A	4386412
22'33'55'-HexaCB-(133)	ng/g	0.0044 J	0.0029	0.010	N/A	N/A	N/A	N/A	4386412
HexaCB-(134)+(143)	ng/g	0.0051 J	0.0033	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(135)+(151)	ng/g	0.0611	0.0025	0.020	N/A	N/A	N/A	N/A	4386412
22'33'66'-HexaCB-(136)	ng/g	0.0150	0.0017	0.010	N/A	N/A	N/A	N/A	4386412
22'344'5-HexaCB-(137)	ng/g	0.0032 U	0.0032	0.010	N/A	N/A	N/A	N/A	4386412
HexaCB-(139)+(140)	ng/g	0.0028 U	0.0028	0.020	N/A	N/A	N/A	N/A	4386412
22'3455'-HexaCB-(141)	ng/g	0.0069 J	0.0028	0.010	N/A	N/A	N/A	N/A	4386412
22'3456-HexaCB-(142)	ng/g	0.0031 U	0.0031	0.010	N/A	N/A	N/A	N/A	4386412
22'345'6-HexaCB-(144)	ng/g	0.0067 J	0.0023	0.010	N/A	N/A	N/A	N/A	4386412
22'3466'-HexaCB-(145)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	4386412
22'34'55'-HexaCB-(146)	ng/g	0.0423	0.0027	0.010	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
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Anchor QEA, LLC
Client Project #: ATS0
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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP511							
Sampling Date		2016/01/04 10:10							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-GP-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
HexaCB-(147)+(149)	ng/g	0.168	0.0029	0.020	N/A	N/A	N/A	N/A	4386412
22'34'56'-HexaCB-(148)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	4386412
22'34'66'-HexaCB-(150)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	4386412
22'3566'-HexaCB-(152)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	4386412
HexaCB-(153)+(168)	ng/g	0.284	0.0022	0.010	N/A	N/A	N/A	N/A	4386412
22'44'56'-HexaCB-(154)	ng/g	0.0032 J	0.0021	0.010	N/A	N/A	N/A	N/A	4386412
22'44'66'-HexaCB-(155)	ng/g	0.0013 U	0.0013	0.010	N/A	N/A	N/A	N/A	4386412
HexaCB-(156)+(157)	ng/g	0.0121 J	0.00099	0.020	N/A	0.0000300	0.000000363	N/A	4386412
233'44'6-HexaCB-(158)	ng/g	0.0154	0.0019	0.010	N/A	N/A	N/A	N/A	4386412
233'455'-HexaCB-(159)	ng/g	0.00086 U	0.00086	0.010	N/A	N/A	N/A	N/A	4386412
233'456-HexaCB-(160)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	4386412
233'45'6-HexaCB-(161)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	4386412
233'4'55'-HexaCB-(162)	ng/g	0.00092 U	0.00092	0.010	N/A	N/A	N/A	N/A	4386412
233'4'5'6-HexaCB-(164)	ng/g	0.0052 J	0.0021	0.010	N/A	N/A	N/A	N/A	4386412
233'55'6-HexaCB-(165)	ng/g	0.0025 U	0.0025	0.010	N/A	N/A	N/A	N/A	4386412
23'44'55'-HexaCB-(167)	ng/g	0.0065 J	0.0011	0.010	N/A	0.0000300	0.000000195	N/A	4386412
33'44'55'-HexaCB-(169)	ng/g	0.0011 U	0.0011	0.010	N/A	0.0300	0.0000330	N/A	4386412
22'33'44'5-HeptaCB-(170)	ng/g	0.0147	0.0017	0.010	N/A	N/A	N/A	N/A	4386412
HeptaCB-(171)+(173)	ng/g	0.0143 J	0.0022	0.020	N/A	N/A	N/A	N/A	4386412
22'33'455'-HeptaCB-(172)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	4386412
22'33'456'-HeptaCB-(174)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	4386412
22'33'45'6-HeptaCB-(175)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	4386412
22'33'466'-HeptaCB-(176)	ng/g	0.0050 J	0.0011	0.010	N/A	N/A	N/A	N/A	4386412
22'33'45'6'-HeptaCB-(177)	ng/g	0.0279	0.0022	0.010	N/A	N/A	N/A	N/A	4386412
22'33'55'6-HeptaCB-(178)	ng/g	0.0124	0.0016	0.010	N/A	N/A	N/A	N/A	4386412
22'33'566'-HeptaCB-(179)	ng/g	0.0189	0.0011	0.010	N/A	N/A	N/A	N/A	4386412
HeptaCB-(180)+(193)	ng/g	0.0693	0.0015	0.020	N/A	N/A	N/A	N/A	4386412
22'344'56-HeptaCB-(181)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP511							
Sampling Date		2016/01/04 10:10							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-GP-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'344'56'-HeptaCB-(182)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	4386412
22'344'5'6-HeptaCB-(183)	ng/g	0.0334	0.0018	0.010	N/A	N/A	N/A	N/A	4386412
22'344'66'-HeptaCB-(184)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	4386412
22'3455'6-HeptaCB-(185)	ng/g	0.0025 U	0.0025	0.010	N/A	N/A	N/A	N/A	4386412
22'34566'-HeptaCB-(186)	ng/g	0.0013 U	0.0013	0.010	N/A	N/A	N/A	N/A	4386412
22'34'55'6-HeptaCB-(187)	ng/g	0.0799	0.0016	0.010	N/A	N/A	N/A	N/A	4386412
22'34'566'-HeptaCB-(188)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	4386412
233'44'55'-HeptaCB-(189)	ng/g	0.00184 J	0.00056	0.010	N/A	0.0000300	0.0000000552	N/A	4386412
233'44'56-HeptaCB-(190)	ng/g	0.0063 J	0.0016	0.010	N/A	N/A	N/A	N/A	4386412
233'44'5'6-HeptaCB-(191)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	4386412
233'455'6-HeptaCB-(192)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	4386412
22'33'44'55'-OctaCB-(194)	ng/g	0.0046 U (1)	0.0046	0.010	N/A	N/A	N/A	N/A	4386412
22'33'44'56-OctaCB-(195)	ng/g	0.00080 U	0.00080	0.010	N/A	N/A	N/A	N/A	4386412
22'33'44'56'-OctaCB-(196)	ng/g	0.0017 U	0.0017	0.010	N/A	N/A	N/A	N/A	4386412
22'33'44'66'OctaCB-(197)	ng/g	0.0013 U	0.0013	0.010	N/A	N/A	N/A	N/A	4386412
OctaCB-(198)+(199)	ng/g	0.0017 U	0.0017	0.020	N/A	N/A	N/A	N/A	4386412
22'33'4566'-OctaCB-(200)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	4386412
22'33'45'66'-OctaCB-(201)	ng/g	0.0032 J	0.0011	0.010	N/A	N/A	N/A	N/A	4386412
22'33'55'66'-OctaCB-(202)	ng/g	0.0073 J	0.0012	0.010	N/A	N/A	N/A	N/A	4386412
22'344'55'6-OctaCB-(203)	ng/g	0.0054 J	0.0017	0.010	N/A	N/A	N/A	N/A	4386412
22'344'566'-OctaCB-(204)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	4386412
233'44'55'6-OctaCB-(205)	ng/g	0.00074 U	0.00074	0.010	N/A	N/A	N/A	N/A	4386412
22'33'44'55'6-NonaCB-(206)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	4386412
22'33'44'566'-NonaCB-(207)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	4386412
22'33'455'66'-NonaCB-(208)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	4386412
DecaCB-(209)	ng/g	0.0025 UQB	0.0025	0.010	N/A	N/A	N/A	N/A	4386412
Total PCB	ng/g	3.16	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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Maxxam Job #: B612062
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Anchor QEA, LLC
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Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP511							
Sampling Date		2016/01/04 10:10							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-GP-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000147	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	115	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'55'6-NonaCB-(206)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'5-HeptaCB-(170)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'455'66'-NonaCB-(208)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'66'-OctaCB-(202)	%	60	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'6-HeptaCB-(178)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'344'55'-HeptaCB-(180)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'34'566'-HeptaCB-(188)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'44'66'-HexaCB-(155)	%	63	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'466'-PentaCB-(104)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'66'-TetraCB-(54)	%	54	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'6-TriCB-(19)	%	52	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'-DiCB-(4)	%	48	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'6-OctaCB-(205)	%	88	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'-HeptaCB-(189)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'-PentaCB-(105)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'55'-PentaCB-(111)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'55'-HexaCB-(167)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2344'5-PentaCB-(114)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'5-PentaCB-(118)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2'344'5-PentaCB-(123)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2-MonoCB-(1)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'55'-HexaCB-(169)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'5-PentaCB-(126)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'-TetraCB-(77)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'5-TetraCB-(81)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP511							
Sampling Date		2016/01/04 10:10							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-GP-1-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-344'-TriCB-(37)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-44'-DiCB-(15)	%	76	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-4-MonoCB-(3)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-DecaCB-(209)	%	76	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-HexaCB-(156)+(157)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP512							
Sampling Date		2016/01/04 16:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-5-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng/g	0.00050 U	0.00050	0.0094	N/A	N/A	N/A	N/A	4386412
3-MonoCB-(2)	ng/g	0.00044 U	0.00044	0.0094	N/A	N/A	N/A	N/A	4386412
4-MonoCB-(3)	ng/g	0.00063 U (1)	0.00063	0.0094	N/A	N/A	N/A	N/A	4386412
22'-DiCB-(4)	ng/g	0.0062 J	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
2,3-DiCB-(5)	ng/g	0.0012 U	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
2,3'-DiCB-(6)	ng/g	0.0040 J	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
2,4-DiCB-(7)	ng/g	0.0012 U	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
2,4'-DiCB-(8)	ng/g	0.0184	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
2,5-DiCB-(9)	ng/g	0.0012 J	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
2,6-DiCB-(10)	ng/g	0.00081 U	0.00081	0.0094	N/A	N/A	N/A	N/A	4386412
3,3'-DiCB-(11)	ng/g	0.0078 JB	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
DiCB-(12)+(13)	ng/g	0.0020 U (1)	0.0020	0.019	N/A	N/A	N/A	N/A	4386412
3,5-DiCB-(14)	ng/g	0.0010 U	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
4,4'-DiCB-(15)	ng/g	0.0438	0.0016	0.0094	N/A	N/A	N/A	N/A	4386412
22'3-TriCB-(16)	ng/g	0.0214	0.0016	0.0094	N/A	N/A	N/A	N/A	4386412
22'4-TriCB-(17)	ng/g	0.0157	0.0016	0.0094	N/A	N/A	N/A	N/A	4386412
TriCB-(18)+(30)	ng/g	0.0529	0.0013	0.019	N/A	N/A	N/A	N/A	4386412
22'6-TriCB-(19)	ng/g	0.0102	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
TriCB-(20) + (28)	ng/g	0.376	0.00059	0.019	N/A	N/A	N/A	N/A	4386412
TriCB-(21)+(33)	ng/g	0.0681	0.00059	0.019	N/A	N/A	N/A	N/A	4386412
234'-TriCB-(22)	ng/g	0.0639	0.00063	0.0094	N/A	N/A	N/A	N/A	4386412
235-TriCB-(23)	ng/g	0.00069 U	0.00069	0.0094	N/A	N/A	N/A	N/A	4386412
236-TriCB-(24)	ng/g	0.0013 J	0.0013	0.0094	N/A	N/A	N/A	N/A	4386412
23'4-TriCB-(25)	ng/g	0.0134	0.00058	0.0094	N/A	N/A	N/A	N/A	4386412
TriCB-(26)+(29)	ng/g	0.0292	0.00062	0.019	N/A	N/A	N/A	N/A	4386412
23'6-TriCB-(27)	ng/g	0.0084 J	0.0011	0.0094	N/A	N/A	N/A	N/A	4386412
24'5-TriCB-(31)	ng/g	0.134	0.00055	0.0094	N/A	N/A	N/A	N/A	4386412

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP512							
Sampling Date		2016/01/04 16:00							
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	Units	PG-SMA2-5-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
24'6-TriCB-(32)	ng/g	0.0167	0.00095	0.0094	N/A	N/A	N/A	N/A	4386412
23'5'-TriCB-(34)	ng/g	0.00099 J	0.00067	0.0094	N/A	N/A	N/A	N/A	4386412
33'4-TriCB-(35)	ng/g	0.00311 J	0.00066	0.0094	N/A	N/A	N/A	N/A	4386412
33'5-TriCB-(36)	ng/g	0.00054 U	0.00054	0.0094	N/A	N/A	N/A	N/A	4386412
344'-TriCB-(37)	ng/g	0.0663	0.0011	0.0094	N/A	N/A	N/A	N/A	4386412
345-TriCB-(38)	ng/g	0.00064 U	0.00064	0.0094	N/A	N/A	N/A	N/A	4386412
34'5-TriCB-(39)	ng/g	0.00284 J	0.00066	0.0094	N/A	N/A	N/A	N/A	4386412
TetraCB-(40)+(41)+(71)	ng/g	0.159	0.0016	0.028	N/A	N/A	N/A	N/A	4386412
22'34'-TetraCB-(42)	ng/g	0.0790	0.0018	0.0094	N/A	N/A	N/A	N/A	4386412
22'35-TetraCB-(43)	ng/g	0.0203	0.0022	0.0094	N/A	N/A	N/A	N/A	4386412
TetraCB-(44)+(47)+(65)	ng/g	0.293	0.0014	0.028	N/A	N/A	N/A	N/A	4386412
TetraCB-(45)+(51)	ng/g	0.0286	0.0015	0.019	N/A	N/A	N/A	N/A	4386412
22'36'-TetraCB-(46)	ng/g	0.0178	0.0018	0.0094	N/A	N/A	N/A	N/A	4386412
22'45-TetraCB-(48)	ng/g	0.0910	0.0016	0.0094	N/A	N/A	N/A	N/A	4386412
TetraCB-(49)+TetraCB-(69)	ng/g	0.125	0.0013	0.019	N/A	N/A	N/A	N/A	4386412
TetraCB-(50)+(53)	ng/g	0.0438	0.0014	0.019	N/A	N/A	N/A	N/A	4386412
22'55'-TetraCB-(52)	ng/g	0.320	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
22'66'-TetraCB-(54)	ng/g	0.0012 U	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
233'4-TetraCB-(55)	ng/g	0.00089 U	0.00089	0.0094	N/A	N/A	N/A	N/A	4386412
233'4'-Tetra CB(56)	ng/g	0.00741 J	0.00085	0.0094	N/A	N/A	N/A	N/A	4386412
233'5-TetraCB-(57)	ng/g	0.00095 J	0.00074	0.0094	N/A	N/A	N/A	N/A	4386412
233'5'-TetraCB-(58)	ng/g	0.00085 U	0.00085	0.0094	N/A	N/A	N/A	N/A	4386412
TetraCB-(59)+(62)+(75)	ng/g	0.0306	0.0011	0.028	N/A	N/A	N/A	N/A	4386412
2344'-TetraCB -(60)	ng/g	0.00688 J	0.00086	0.0094	N/A	N/A	N/A	N/A	4386412
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.122	0.00079	0.038	N/A	N/A	N/A	N/A	4386412
234'5-TetraCB-(63)	ng/g	0.00471 J	0.00071	0.0094	N/A	N/A	N/A	N/A	4386412
234'6-TetraCB-(64)	ng/g	0.0761	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
23'44'-TetraCB-(66)	ng/g	0.0444	0.00069	0.0094	N/A	N/A	N/A	N/A	4386412

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Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
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	Units	PG-SMA2-5-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45-TetraCB-(67)	ng/g	0.00468 J	0.00066	0.0094	N/A	N/A	N/A	N/A	4386412
23'45'-TetraCB-(68)	ng/g	0.00178 J	0.00084	0.0094	N/A	N/A	N/A	N/A	4386412
23'55'-TetraCB-(72)	ng/g	0.00266 J	0.00086	0.0094	N/A	N/A	N/A	N/A	4386412
23'5'6-TetraCB-(73)	ng/g	0.0011 U	0.0011	0.0094	N/A	N/A	N/A	N/A	4386412
33'44'-TetraCB-(77)	ng/g	0.0028 J	0.0010	0.0094	N/A	0.000100	0.000000280	N/A	4386412
33'45-TetraCB-(78)	ng/g	0.00076 U	0.00076	0.0094	N/A	N/A	N/A	N/A	4386412
33'45'-TetraCB(79)	ng/g	0.00082 J	0.00064	0.0094	N/A	N/A	N/A	N/A	4386412
33'55'-TetraCB-(80)	ng/g	0.00068 U	0.00068	0.0094	N/A	N/A	N/A	N/A	4386412
344'5-TetraCB-(81)	ng/g	0.0011 U	0.0011	0.0094	N/A	0.000300	0.000000330	N/A	4386412
22'33'4-PentaCB-(82)	ng/g	0.0053 J	0.0015	0.0094	N/A	N/A	N/A	N/A	4386412
PentaCB-(83)+(99)	ng/g	0.0837	0.0015	0.019	N/A	N/A	N/A	N/A	4386412
22'33'6-PentaCB-(84)	ng/g	0.0129	0.0016	0.0094	N/A	N/A	N/A	N/A	4386412
PentaCB-(85)+(116)+(117)	ng/g	0.0130 J	0.0011	0.028	N/A	N/A	N/A	N/A	4386412
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0451 J	0.0012	0.056	N/A	N/A	N/A	N/A	4386412
PentaCB-(88)+(91)	ng/g	0.0110 J	0.0013	0.019	N/A	N/A	N/A	N/A	4386412
22'346'-PentaCB-(89)	ng/g	0.0014 U	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
PentaCB-(90)+(101)+(113)	ng/g	0.165	0.0011	0.028	N/A	N/A	N/A	N/A	4386412
22'355'-PentaCB-(92)	ng/g	0.0245	0.0013	0.0094	N/A	N/A	N/A	N/A	4386412
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0125 J	0.0014	0.038	N/A	N/A	N/A	N/A	4386412
22'356'-PentaCB-(94)	ng/g	0.0018 J	0.0015	0.0094	N/A	N/A	N/A	N/A	4386412
22'35'6-PentaCB-(95)	ng/g	0.115	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
22'366'-PentaCB-(96)	ng/g	0.0024 J	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
22'45'6-PentaCB-(103)	ng/g	0.0031 J	0.0011	0.0094	N/A	N/A	N/A	N/A	4386412
22'466'-PentaCB-(104)	ng/g	0.0010 U	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
233'44'-PentaCB-(105)	ng/g	0.0341	0.00098	0.0094	N/A	0.0000300	0.00000102	N/A	4386412
233'45-PentaCB-(106)	ng/g	0.00070 U	0.00070	0.0094	N/A	N/A	N/A	N/A	4386412
233'4'5-PentaCB-(107)	ng/g	0.00761 J	0.00073	0.0094	N/A	N/A	N/A	N/A	4386412
PentaCB-(108)+(124)	ng/g	0.00319 J	0.00077	0.019	N/A	N/A	N/A	N/A	4386412

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	Units	PG-SMA2-5-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
PentaCB-(110)+(115)	ng/g	0.107	0.0011	0.019	N/A	N/A	N/A	N/A	4386412
233'55'-PentaCB-(111)	ng/g	0.0010 U	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
233'56-PentaCB-(112)	ng/g	0.00093 U	0.00093	0.0094	N/A	N/A	N/A	N/A	4386412
2344'5-PentaCB-(114)	ng/g	0.00200 J	0.00095	0.0094	N/A	0.0000300	0.0000000600	N/A	4386412
23'44'5-PentaCB-(118)	ng/g	0.108 B	0.00098	0.0094	N/A	0.0000300	0.00000324	N/A	4386412
23'455'-PentaCB-(120)	ng/g	0.00090 U	0.00090	0.0094	N/A	N/A	N/A	N/A	4386412
23'45'6-PentaCB-(121)	ng/g	0.0010 U	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
233'4'5'-PentaCB-(122)	ng/g	0.00079 U	0.00079	0.0094	N/A	N/A	N/A	N/A	4386412
23'44'5'-PentaCB-(123)	ng/g	0.0011 U	0.0011	0.0094	N/A	0.0000300	0.0000000330	N/A	4386412
33'44'5-PentaCB-(126)	ng/g	0.00098 U	0.00098	0.0094	N/A	0.100	0.0000980	N/A	4386412
33'455'-PentaCB-(127)	ng/g	0.00071 U	0.00071	0.0094	N/A	N/A	N/A	N/A	4386412
HexaCB-(128)+(166)	ng/g	0.0335	0.0012	0.019	N/A	N/A	N/A	N/A	4386412
HexaCB-(129)+(138)+(163)	ng/g	0.423	0.0013	0.028	N/A	N/A	N/A	N/A	4386412
22'33'45'-HexaCB-(130)	ng/g	0.0135	0.0015	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'46-HexaCB-(131)	ng/g	0.0021 J	0.0016	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'46'-HexaCB-(132)	ng/g	0.0525	0.0016	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'55'-HexaCB-(133)	ng/g	0.0052 J	0.0013	0.0094	N/A	N/A	N/A	N/A	4386412
HexaCB-(134)+(143)	ng/g	0.0137 J	0.0015	0.019	N/A	N/A	N/A	N/A	4386412
HexaCB-(135)+(151)	ng/g	0.138	0.0015	0.019	N/A	N/A	N/A	N/A	4386412
22'33'66'-HexaCB-(136)	ng/g	0.0349	0.00098	0.0094	N/A	N/A	N/A	N/A	4386412
22'344'5-HexaCB-(137)	ng/g	0.0030 J	0.0015	0.0094	N/A	N/A	N/A	N/A	4386412
HexaCB-(139)+(140)	ng/g	0.0029 J	0.0013	0.019	N/A	N/A	N/A	N/A	4386412
22'3455'-HexaCB-(141)	ng/g	0.0148	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
22'3456-HexaCB-(142)	ng/g	0.0014 U	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
22'345'6-HexaCB-(144)	ng/g	0.0193	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
22'3466'-HexaCB-(145)	ng/g	0.0011 U	0.0011	0.0094	N/A	N/A	N/A	N/A	4386412
22'34'55'-HexaCB-(146)	ng/g	0.0608	0.0013	0.0094	N/A	N/A	N/A	N/A	4386412
HexaCB-(147)+(149)	ng/g	0.321	0.0013	0.019	N/A	N/A	N/A	N/A	4386412

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	Units	PG-SMA2-5-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'34'56'-HexaCB-(148)	ng/g	0.0014 U	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
22'34'66'-HexaCB-(150)	ng/g	0.0010 U	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
22'3566'-HexaCB-(152)	ng/g	0.00098 U	0.00098	0.0094	N/A	N/A	N/A	N/A	4386412
HexaCB-(153)+(168)	ng/g	0.468	0.0011	0.0094	N/A	N/A	N/A	N/A	4386412
22'44'56'-HexaCB-(154)	ng/g	0.0060 J	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
22'44'66'-HexaCB-(155)	ng/g	0.00066 U	0.00066	0.0094	N/A	N/A	N/A	N/A	4386412
HexaCB-(156)+(157)	ng/g	0.0242	0.0014	0.019	N/A	0.0000300	0.000000726	N/A	4386412
233'44'6-HexaCB-(158)	ng/g	0.0295	0.00092	0.0094	N/A	N/A	N/A	N/A	4386412
233'455'-HexaCB-(159)	ng/g	0.0010 U	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
233'456-HexaCB-(160)	ng/g	0.0012 U	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
233'45'6-HexaCB-(161)	ng/g	0.00094 U	0.00094	0.0094	N/A	N/A	N/A	N/A	4386412
233'4'55'-HexaCB-(162)	ng/g	0.0044 J	0.0011	0.0094	N/A	N/A	N/A	N/A	4386412
233'4'5'6-HexaCB-(164)	ng/g	0.0100	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
233'55'6-HexaCB-(165)	ng/g	0.0012 U	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
23'44'55'-HexaCB-(167)	ng/g	0.0117	0.0015	0.0094	N/A	0.0000300	0.000000351	N/A	4386412
33'44'55'-HexaCB-(169)	ng/g	0.0015 U	0.0015	0.0094	N/A	0.0300	0.0000450	N/A	4386412
22'33'44'5-HeptaCB-(170)	ng/g	0.0329	0.00099	0.0094	N/A	N/A	N/A	N/A	4386412
HeptaCB-(171)+(173)	ng/g	0.0279	0.0014	0.019	N/A	N/A	N/A	N/A	4386412
22'33'455'-HeptaCB-(172)	ng/g	0.0014 U	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'456'-HeptaCB-(174)	ng/g	0.0013 U	0.0013	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'45'6-HeptaCB-(175)	ng/g	0.00429 J	0.00093	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'466'-HeptaCB-(176)	ng/g	0.0117	0.00065	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'45'6'-HeptaCB-(177)	ng/g	0.0516	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'55'6-HeptaCB-(178)	ng/g	0.0205	0.00094	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'566'-HeptaCB-(179)	ng/g	0.0393	0.00064	0.0094	N/A	N/A	N/A	N/A	4386412
HeptaCB-(180)+(193)	ng/g	0.152	0.00089	0.019	N/A	N/A	N/A	N/A	4386412
22'344'56-HeptaCB-(181)	ng/g	0.0014 U	0.0014	0.0094	N/A	N/A	N/A	N/A	4386412
22'344'56'-HeptaCB-(182)	ng/g	0.00096 U	0.00096	0.0094	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP512							
Sampling Date		2016/01/04 16:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-5-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'344'5'6-HeptaCB-(183)	ng/g	0.0583	0.0011	0.0094	N/A	N/A	N/A	N/A	4386412
22'344'66'-HeptaCB-(184)	ng/g	0.00069 U	0.00069	0.0094	N/A	N/A	N/A	N/A	4386412
22'3455'6-HeptaCB-(185)	ng/g	0.0016 U	0.0016	0.0094	N/A	N/A	N/A	N/A	4386412
22'34566'-HeptaCB-(186)	ng/g	0.00075 U	0.00075	0.0094	N/A	N/A	N/A	N/A	4386412
22'34'55'6-HeptaCB-(187)	ng/g	0.153	0.00096	0.0094	N/A	N/A	N/A	N/A	4386412
22'34'566'-HeptaCB-(188)	ng/g	0.00064 U	0.00064	0.0094	N/A	N/A	N/A	N/A	4386412
233'44'55'-HeptaCB-(189)	ng/g	0.00390 J	0.00056	0.0094	N/A	0.0000300	0.000000117	N/A	4386412
233'44'56-HeptaCB-(190)	ng/g	0.0141	0.00098	0.0094	N/A	N/A	N/A	N/A	4386412
233'44'5'6-HeptaCB-(191)	ng/g	0.0033 J	0.0010	0.0094	N/A	N/A	N/A	N/A	4386412
233'455'6-HeptaCB-(192)	ng/g	0.0012 U	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'44'55'-OctaCB-(194)	ng/g	0.0109	0.00074	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'44'56-OctaCB-(195)	ng/g	0.00196 J	0.00080	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'44'56'-OctaCB-(196)	ng/g	0.0015 J	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'44'66'OctaCB-(197)	ng/g	0.00230 J	0.00090	0.0094	N/A	N/A	N/A	N/A	4386412
OctaCB-(198)+(199)	ng/g	0.0013 U (1)	0.0013	0.019	N/A	N/A	N/A	N/A	4386412
22'33'4566'-OctaCB-(200)	ng/g	0.00081 U	0.00081	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'45'66'-OctaCB-(201)	ng/g	0.00498 J	0.00080	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'55'66'-OctaCB-(202)	ng/g	0.0100	0.00087	0.0094	N/A	N/A	N/A	N/A	4386412
22'344'55'6-OctaCB-(203)	ng/g	0.0118	0.0012	0.0094	N/A	N/A	N/A	N/A	4386412
22'344'566'-OctaCB-(204)	ng/g	0.00081 U	0.00081	0.0094	N/A	N/A	N/A	N/A	4386412
233'44'55'6-OctaCB-(205)	ng/g	0.00158 J	0.00076	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'44'55'6-NonaCB-(206)	ng/g	0.00080 U	0.00080	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'44'566'-NonaCB-(207)	ng/g	0.00063 U	0.00063	0.0094	N/A	N/A	N/A	N/A	4386412
22'33'455'66'-NonaCB-(208)	ng/g	0.00080 U	0.00080	0.0094	N/A	N/A	N/A	N/A	4386412
DecaCB-(209)	ng/g	0.00097 UKQB	0.00097	0.0094	N/A	N/A	N/A	N/A	4386412
Total PCB	ng/g	5.51	N/A	N/A	N/A	N/A	N/A	N/A	4386412
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000149	N/A	N/A

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Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP512							
Sampling Date		2016/01/04 16:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-5-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	125	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'55'6-NonaCB-(206)	%	82	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'5-HeptaCB-(170)	%	73	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'455'66'-NonaCB-(208)	%	74	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'66'-OctaCB-(202)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'6-HeptaCB-(178)	%	90	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'344'55'-HeptaCB-(180)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'34'566'-HeptaCB-(188)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'44'66'-HexaCB-(155)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'466'-PentaCB-(104)	%	78	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'66'-TetraCB-(54)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'6-TriCB-(19)	%	49	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'-DiCB-(4)	%	53	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'6-OctaCB-(205)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'-HeptaCB-(189)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'-PentaCB-(105)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'55'-PentaCB-(111)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'55'-HexaCB-(167)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2344'5-PentaCB-(114)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'5-PentaCB-(118)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2'344'5-PentaCB-(123)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2-MonoCB-(1)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'55'-HexaCB-(169)	%	64	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'5-PentaCB-(126)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'-TetraCB-(77)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'5-TetraCB-(81)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'-TriCB-(37)	%	108	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP512							
Sampling Date		2016/01/04 16:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-5-MUS-COC-160104	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-44'-DiCB-(15)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-4-MonoCB-(3)	%	67	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-DecaCB-(209)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-HexaCB-(156)+(157)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP513							
Sampling Date		2016/01/05 09:40							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-4-MUS-COC-160105	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng/g	0.00066 U	0.00066	0.0099	N/A	N/A	N/A	N/A	4386412
3-MonoCB-(2)	ng/g	0.00057 U	0.00057	0.0099	N/A	N/A	N/A	N/A	4386412
4-MonoCB-(3)	ng/g	0.00066 U	0.00066	0.0099	N/A	N/A	N/A	N/A	4386412
22'-DiCB-(4)	ng/g	0.0037 J	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
2,3-DiCB-(5)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
2,3'-DiCB-(6)	ng/g	0.00237 J	0.00093	0.0099	N/A	N/A	N/A	N/A	4386412
2,4-DiCB-(7)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
2,4'-DiCB-(8)	ng/g	0.00960 J	0.00096	0.0099	N/A	N/A	N/A	N/A	4386412
2,5-DiCB-(9)	ng/g	0.00092 U	0.00092	0.0099	N/A	N/A	N/A	N/A	4386412
2,6-DiCB-(10)	ng/g	0.00083 U	0.00083	0.0099	N/A	N/A	N/A	N/A	4386412
3,3'-DiCB-(11)	ng/g	0.00785 JB	0.00094	0.0099	N/A	N/A	N/A	N/A	4386412
DiCB-(12)+(13)	ng/g	0.0015 U (1)	0.0015	0.020	N/A	N/A	N/A	N/A	4386412
3,5-DiCB-(14)	ng/g	0.00093 U	0.00093	0.0099	N/A	N/A	N/A	N/A	4386412
4,4'-DiCB-(15)	ng/g	0.0296	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'3-TriCB-(16)	ng/g	0.0141	0.00085	0.0099	N/A	N/A	N/A	N/A	4386412
22'4-TriCB-(17)	ng/g	0.00759 J	0.00085	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(18)+(30)	ng/g	0.0328	0.00069	0.020	N/A	N/A	N/A	N/A	4386412
22'6-TriCB-(19)	ng/g	0.00535 J	0.00075	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(20) + (28)	ng/g	0.276	0.00067	0.020	N/A	N/A	N/A	N/A	4386412
TriCB-(21)+(33)	ng/g	0.0476	0.00066	0.020	N/A	N/A	N/A	N/A	4386412
234'-TriCB-(22)	ng/g	0.0454	0.00071	0.0099	N/A	N/A	N/A	N/A	4386412
235-TriCB-(23)	ng/g	0.00078 U	0.00078	0.0099	N/A	N/A	N/A	N/A	4386412
236-TriCB-(24)	ng/g	0.00071 U	0.00071	0.0099	N/A	N/A	N/A	N/A	4386412
23'4-TriCB-(25)	ng/g	0.00944 J	0.00065	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(26)+(29)	ng/g	0.0201	0.00070	0.020	N/A	N/A	N/A	N/A	4386412
23'6-TriCB-(27)	ng/g	0.00557 J	0.00057	0.0099	N/A	N/A	N/A	N/A	4386412
24'5-TriCB-(31)	ng/g	0.0918	0.00061	0.0099	N/A	N/A	N/A	N/A	4386412

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Maxxam Job #: B612062
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Anchor QEA, LLC
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Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP513							
Sampling Date		2016/01/05 09:40							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-4-MUS-COC-160105	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
24'6-TriCB-(32)	ng/g	0.00859 J	0.00050	0.0099	N/A	N/A	N/A	N/A	4386412
23'5'-TriCB-(34)	ng/g	0.00076 U	0.00076	0.0099	N/A	N/A	N/A	N/A	4386412
33'4-TriCB-(35)	ng/g	0.00220 J	0.00075	0.0099	N/A	N/A	N/A	N/A	4386412
33'5-TriCB-(36)	ng/g	0.00061 U	0.00061	0.0099	N/A	N/A	N/A	N/A	4386412
344'-TriCB-(37)	ng/g	0.0505	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
345-TriCB-(38)	ng/g	0.00072 U	0.00072	0.0099	N/A	N/A	N/A	N/A	4386412
34'5-TriCB-(39)	ng/g	0.00234 J	0.00074	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(40)+(41)+(71)	ng/g	0.110	0.0011	0.030	N/A	N/A	N/A	N/A	4386412
22'34'-TetraCB-(42)	ng/g	0.0569	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'35-TetraCB-(43)	ng/g	0.0150	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(44)+(47)+(65)	ng/g	0.216	0.00099	0.030	N/A	N/A	N/A	N/A	4386412
TetraCB-(45)+(51)	ng/g	0.0196 J	0.0011	0.020	N/A	N/A	N/A	N/A	4386412
22'36'-TetraCB-(46)	ng/g	0.0122	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'45-TetraCB-(48)	ng/g	0.0645	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(49)+TetraCB-(69)	ng/g	0.0928	0.00089	0.020	N/A	N/A	N/A	N/A	4386412
TetraCB-(50)+(53)	ng/g	0.0301	0.0010	0.020	N/A	N/A	N/A	N/A	4386412
22'55'-TetraCB-(52)	ng/g	0.235	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
22'66'-TetraCB-(54)	ng/g	0.00060 U	0.00060	0.0099	N/A	N/A	N/A	N/A	4386412
233'4-TetraCB-(55)	ng/g	0.00083 U	0.00083	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'-Tetra CB(56)	ng/g	0.00526 J	0.00080	0.0099	N/A	N/A	N/A	N/A	4386412
233'5-TetraCB-(57)	ng/g	0.00076 J	0.00069	0.0099	N/A	N/A	N/A	N/A	4386412
233'5'-TetraCB-(58)	ng/g	0.00081 U	0.00081	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(59)+(62)+(75)	ng/g	0.0223 J	0.00078	0.030	N/A	N/A	N/A	N/A	4386412
2344'-TetraCB -(60)	ng/g	0.00503 J	0.00081	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0912	0.00075	0.039	N/A	N/A	N/A	N/A	4386412
234'5-TetraCB-(63)	ng/g	0.00342 J	0.00067	0.0099	N/A	N/A	N/A	N/A	4386412
234'6-TetraCB-(64)	ng/g	0.0566	0.00086	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'-TetraCB-(66)	ng/g	0.0334	0.00065	0.0099	N/A	N/A	N/A	N/A	4386412

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Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP513							
Sampling Date		2016/01/05 09:40							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-4-MUS-COC-160105	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45-TetraCB-(67)	ng/g	0.00373 J	0.00062	0.0099	N/A	N/A	N/A	N/A	4386412
23'45'-TetraCB-(68)	ng/g	0.00158 J	0.00079	0.0099	N/A	N/A	N/A	N/A	4386412
23'55'-TetraCB-(72)	ng/g	0.00209 J	0.00081	0.0099	N/A	N/A	N/A	N/A	4386412
23'5'6-TetraCB-(73)	ng/g	0.00077 U	0.00077	0.0099	N/A	N/A	N/A	N/A	4386412
33'44'-TetraCB-(77)	ng/g	0.00205 J	0.00095	0.0099	N/A	0.000100	0.000000205	N/A	4386412
33'45-TetraCB-(78)	ng/g	0.00072 U	0.00072	0.0099	N/A	N/A	N/A	N/A	4386412
33'45'-TetraCB(79)	ng/g	0.00061 U	0.00061	0.0099	N/A	N/A	N/A	N/A	4386412
33'55'-TetraCB-(80)	ng/g	0.00064 U	0.00064	0.0099	N/A	N/A	N/A	N/A	4386412
344'5-TetraCB-(81)	ng/g	0.0010 U	0.0010	0.0099	N/A	0.000300	0.000000300	N/A	4386412
22'33'4-PentaCB-(82)	ng/g	0.0040 J	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(83)+(99)	ng/g	0.0641	0.0014	0.020	N/A	N/A	N/A	N/A	4386412
22'33'6-PentaCB-(84)	ng/g	0.0098 J	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(85)+(116)+(117)	ng/g	0.0099 J	0.0010	0.030	N/A	N/A	N/A	N/A	4386412
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0328 J	0.0011	0.059	N/A	N/A	N/A	N/A	4386412
PentaCB-(88)+(91)	ng/g	0.0070 J	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
22'346'-PentaCB-(89)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(90)+(101)+(113)	ng/g	0.119	0.0011	0.030	N/A	N/A	N/A	N/A	4386412
22'355'-PentaCB-(92)	ng/g	0.0182	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0088 J	0.0013	0.039	N/A	N/A	N/A	N/A	4386412
22'356'-PentaCB-(94)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'35'6-PentaCB-(95)	ng/g	0.0811	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'366'-PentaCB-(96)	ng/g	0.00166 J	0.00084	0.0099	N/A	N/A	N/A	N/A	4386412
22'45'6-PentaCB-(103)	ng/g	0.0020 J	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
22'466'-PentaCB-(104)	ng/g	0.00061 U	0.00061	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'-PentaCB-(105)	ng/g	0.0244	0.0015	0.0099	N/A	0.0000300	0.000000732	N/A	4386412
233'45-PentaCB-(106)	ng/g	0.0010 U	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5-PentaCB-(107)	ng/g	0.0057 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(108)+(124)	ng/g	0.0025 J	0.0012	0.020	N/A	N/A	N/A	N/A	4386412

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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

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	Units	PG-SMA2-4-MUS-COC-160105	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
PentaCB-(110)+(115)	ng/g	0.0780	0.0011	0.020	N/A	N/A	N/A	N/A	4386412
233'55'-PentaCB-(111)	ng/g	0.00096 U	0.00096	0.0099	N/A	N/A	N/A	N/A	4386412
233'56-PentaCB-(112)	ng/g	0.00087 U	0.00087	0.0099	N/A	N/A	N/A	N/A	4386412
2344'5-PentaCB-(114)	ng/g	0.0014 U	0.0014	0.0099	N/A	0.0000300	0.0000000420	N/A	4386412
23'44'5-PentaCB-(118)	ng/g	0.0787 B	0.0015	0.0099	N/A	0.0000300	0.00000236	N/A	4386412
23'455'-PentaCB-(120)	ng/g	0.00085 U	0.00085	0.0099	N/A	N/A	N/A	N/A	4386412
23'45'6-PentaCB-(121)	ng/g	0.00098 U	0.00098	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5'-PentaCB-(122)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'5'-PentaCB-(123)	ng/g	0.0016 U	0.0016	0.0099	N/A	0.0000300	0.0000000480	N/A	4386412
33'44'5-PentaCB-(126)	ng/g	0.0015 U	0.0015	0.0099	N/A	0.100	0.000150	N/A	4386412
33'455'-PentaCB-(127)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(128)+(166)	ng/g	0.0250	0.0011	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(129)+(138)+(163)	ng/g	0.306	0.0012	0.030	N/A	N/A	N/A	N/A	4386412
22'33'45'-HexaCB-(130)	ng/g	0.0110	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'46-HexaCB-(131)	ng/g	0.0020 J	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'46'-HexaCB-(132)	ng/g	0.0379	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'-HexaCB-(133)	ng/g	0.0039 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(134)+(143)	ng/g	0.0097 J	0.0014	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(135)+(151)	ng/g	0.0958	0.0014	0.020	N/A	N/A	N/A	N/A	4386412
22'33'66'-HexaCB-(136)	ng/g	0.0234	0.00093	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'5-HexaCB-(137)	ng/g	0.0129	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(139)+(140)	ng/g	0.0023 J	0.0012	0.020	N/A	N/A	N/A	N/A	4386412
22'3455'-HexaCB-(141)	ng/g	0.0103	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'3456-HexaCB-(142)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'345'6-HexaCB-(144)	ng/g	0.0127	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'3466'-HexaCB-(145)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'55'-HexaCB-(146)	ng/g	0.0444	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(147)+(149)	ng/g	0.222	0.0012	0.020	N/A	N/A	N/A	N/A	4386412

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	Units	PG-SMA2-4-MUS-COC-160105	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'34'56'-HexaCB-(148)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'66'-HexaCB-(150)	ng/g	0.00098 U	0.00098	0.0099	N/A	N/A	N/A	N/A	4386412
22'3566'-HexaCB-(152)	ng/g	0.00093 U	0.00093	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(153)+(168)	ng/g	0.330	0.00098	0.0099	N/A	N/A	N/A	N/A	4386412
22'44'56'-HexaCB-(154)	ng/g	0.0041 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'44'66'-HexaCB-(155)	ng/g	0.00063 U	0.00063	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(156)+(157)	ng/g	0.0177 J	0.00076	0.020	N/A	0.0000300	0.000000531	N/A	4386412
233'44'6-HexaCB-(158)	ng/g	0.0206	0.00085	0.0099	N/A	N/A	N/A	N/A	4386412
233'455'-HexaCB-(159)	ng/g	0.00056 U	0.00056	0.0099	N/A	N/A	N/A	N/A	4386412
233'456-HexaCB-(160)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
233'45'6-HexaCB-(161)	ng/g	0.00087 U	0.00087	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'55'-HexaCB-(162)	ng/g	0.00062 U	0.00062	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5'6-HexaCB-(164)	ng/g	0.00094 U	0.00094	0.0099	N/A	N/A	N/A	N/A	4386412
233'55'6-HexaCB-(165)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'55'-HexaCB-(167)	ng/g	0.00867 J	0.00082	0.0099	N/A	0.0000300	0.000000260	N/A	4386412
33'44'55'-HexaCB-(169)	ng/g	0.00081 U	0.00081	0.0099	N/A	0.0300	0.0000243	N/A	4386412
22'33'44'5-HeptaCB-(170)	ng/g	0.0233	0.00090	0.0099	N/A	N/A	N/A	N/A	4386412
HeptaCB-(171)+(173)	ng/g	0.0193 J	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
22'33'455'-HeptaCB-(172)	ng/g	0.0020 J	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'456'-HeptaCB-(174)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'6-HeptaCB-(175)	ng/g	0.0028 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'466'-HeptaCB-(176)	ng/g	0.00797 J	0.00082	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'6'-HeptaCB-(177)	ng/g	0.0362	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'6-HeptaCB-(178)	ng/g	0.0143	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'566'-HeptaCB-(179)	ng/g	0.0266	0.00080	0.0099	N/A	N/A	N/A	N/A	4386412
HeptaCB-(180)+(193)	ng/g	0.106	0.00081	0.020	N/A	N/A	N/A	N/A	4386412
22'344'56-HeptaCB-(181)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'56'-HeptaCB-(182)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412

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Maxxam ID		BRP513							
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COC Number		NA				TOXIC EQUIVALENCY		# of	
	Units	PG-SMA2-4-MUS-COC-160105	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'344'5'6-HeptaCB-(183)	ng/g	0.0442	0.00099	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'66'-HeptaCB-(184)	ng/g	0.00087 U	0.00087	0.0099	N/A	N/A	N/A	N/A	4386412
22'3455'6-HeptaCB-(185)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'34566'-HeptaCB-(186)	ng/g	0.00095 U	0.00095	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'55'6-HeptaCB-(187)	ng/g	0.108	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'566'-HeptaCB-(188)	ng/g	0.00081 U	0.00081	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'55'-HeptaCB-(189)	ng/g	0.00263 J	0.00075	0.0099	N/A	0.0000300	0.0000000789	N/A	4386412
233'44'56-HeptaCB-(190)	ng/g	0.00999	0.00089	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'5'6-HeptaCB-(191)	ng/g	0.00223 J	0.00092	0.0099	N/A	N/A	N/A	N/A	4386412
233'455'6-HeptaCB-(192)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'55'-OctaCB-(194)	ng/g	0.00780 J	0.00086	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'56-OctaCB-(195)	ng/g	0.00093 U	0.00093	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'56'-OctaCB-(196)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'66'OctaCB-(197)	ng/g	0.00143 J	0.00086	0.0099	N/A	N/A	N/A	N/A	4386412
OctaCB-(198)+(199)	ng/g	0.0012 U	0.0012	0.020	N/A	N/A	N/A	N/A	4386412
22'33'4566'-OctaCB-(200)	ng/g	0.00077 U	0.00077	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'66'-OctaCB-(201)	ng/g	0.00367 J	0.00076	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'66'-OctaCB-(202)	ng/g	0.00785 J	0.00083	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'55'6-OctaCB-(203)	ng/g	0.0079 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'566'-OctaCB-(204)	ng/g	0.00078 U	0.00078	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'55'6-OctaCB-(205)	ng/g	0.00105 J	0.00089	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'55'6-NonaCB-(206)	ng/g	0.00084 U	0.00084	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'566'-NonaCB-(207)	ng/g	0.00066 U	0.00066	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'455'66'-NonaCB-(208)	ng/g	0.00084 U	0.00084	0.0099	N/A	N/A	N/A	N/A	4386412
DecaCB-(209)	ng/g	0.00081 UQB	0.00081	0.0099	N/A	N/A	N/A	N/A	4386412
Total PCB	ng/g	3.94	N/A	N/A	N/A	N/A	N/A	N/A	4386412
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000179	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	126 Q	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B612062
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	Units	PG-SMA2-4-MUS-COC-160105	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'33'44'55'6-NonaCB-(206)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'5-HeptaCB-(170)	%	67	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'455'66'-NonaCB-(208)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'66'-OctaCB-(202)	%	60	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'6-HeptaCB-(178)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'344'55'-HeptaCB-(180)	%	67	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'34'566'-HeptaCB-(188)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'44'66'-HexaCB-(155)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'466'-PentaCB-(104)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'66'-TetraCB-(54)	%	64	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'6-TriCB-(19)	%	50	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'-DiCB-(4)	%	54	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'6-OctaCB-(205)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'-HeptaCB-(189)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'-PentaCB-(105)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'55'-PentaCB-(111)	%	104	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'55'-HexaCB-(167)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2344'5-PentaCB-(114)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'5-PentaCB-(118)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2'344'5-PentaCB-(123)	%	105	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2-MonoCB-(1)	%	73	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'55'-HexaCB-(169)	%	69	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'5-PentaCB-(126)	%	106	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'-TetraCB-(77)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'5-TetraCB-(81)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'-TriCB-(37)	%	109	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-44'-DiCB-(15)	%	83	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-4-MonoCB-(3)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	4386412

N/A = Not Applicable
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
Client Project #: ATS0
Site Location: PORT GAMBLE CLEAN-UP

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP513							
Sampling Date		2016/01/05 09:40							
COC Number		NA				**TOXIC EQUIVALENCY**		**# of**	
	Units	**PG-SMA2-4-MUS-COC-160105**	**EDL**	**RDL**	**MDL**	**TEF (2005 WHO)**	**TEQ(DL)**	**Isomers**	**QC Batch**
C13-DecaCB-(209)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-HexaCB-(156)+(157)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	4386412

N/A = Not Applicable
RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Test Summary

Maxxam ID BRP508 **Collected** 2016/01/04
Sample ID PG-SMA2-2-MUS-COC-160104 **Shipped**
Matrix TISSUE **Received** 2016/01/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	4386412	2016/02/11	2016/02/18	Cathy Xu

Maxxam ID BRP509 **Collected** 2016/01/04
Sample ID PG-PJ-1-MUS-COC-160104 **Shipped**
Matrix TISSUE **Received** 2016/01/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	4386412	2016/02/11	2016/02/18	Cathy Xu

Maxxam ID BRP510 **Collected** 2016/01/04
Sample ID PG-WS-1-MUS-COC-160104 **Shipped**
Matrix TISSUE **Received** 2016/01/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	4386412	2016/02/11	2016/02/18	Cathy Xu

Maxxam ID BRP510 Dup **Collected** 2016/01/04
Sample ID PG-WS-1-MUS-COC-160104 **Shipped**
Matrix TISSUE **Received** 2016/01/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	4386412	2016/02/11	2016/02/18	Cathy Xu

Maxxam ID BRP511 **Collected** 2016/01/04
Sample ID PG-GP-1-MUS-COC-160104 **Shipped**
Matrix TISSUE **Received** 2016/01/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	4386412	2016/02/11	2016/02/18	Cathy Xu

Maxxam ID BRP512 **Collected** 2016/01/04
Sample ID PG-SMA2-5-MUS-COC-160104 **Shipped**
Matrix TISSUE **Received** 2016/01/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	4386412	2016/02/11	2016/02/19	Cathy Xu

Maxxam ID BRP513 **Collected** 2016/01/05
Sample ID PG-SMA2-4-MUS-COC-160105 **Shipped**
Matrix TISSUE **Received** 2016/01/20

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	4386412	2016/02/11	2016/02/19	Cathy Xu

Maxxam Job #: B612062
Report Date: 2016/03/28

Anchor QEA, LLC
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Site Location: PORT GAMBLE CLEAN-UP

GENERAL COMMENTS

Report revised to reflect correction to Internal Standard recoveries for sample BRP510 DUP, WS# 4386412. No impact to data.
Report revised to reflect change to BRP513 sample ID.

Results relate only to the items tested.

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Quality Assurance Report

Maxxam Job Number: GB612062

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
4386412	CXU	QC Standard	C13-2,44'-TriCB-(28)	2016/02/18		121	%	40 - 125
			C13-22'33'44'55'6-NonaCB-(206)	2016/02/18		94	%	30 - 140
			C13-22'33'44'5-HeptaCB-(170)	2016/02/18		77	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2016/02/18		73	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2016/02/18		65	%	30 - 140
			C13-22'33'55'6-HeptaCB-(178)	2016/02/18		97	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2016/02/18		76	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2016/02/18		73	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2016/02/18		65	%	30 - 140
			C13-22'466'-PentaCB-(104)	2016/02/18		74	%	30 - 140
			C13-22'66'-TetraCB-(54)	2016/02/18		58	%	30 - 140
			C13-22'6-TriCB-(19)	2016/02/18		60	%	30 - 140
			C13-22'-DiCB-(4)	2016/02/18		53	%	30 - 140
			C13-233'44'55'6-OctaCB-(205)	2016/02/18		87	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2016/02/18		90	%	30 - 140
			C13-233'44'-PentaCB-(105)	2016/02/18		98	%	30 - 140
			C13-233'55'-PentaCB-(111)	2016/02/18		104	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2016/02/18		93	%	30 - 140
			C13-2344'5-PentaCB-(114)	2016/02/18		97	%	30 - 140
			C13-23'44'5-PentaCB-(118)	2016/02/18		96	%	30 - 140
			C13-2'344'5-PentaCB-(123)	2016/02/18		95	%	30 - 140
			C13-2-MonoCB-(1)	2016/02/18		74	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2016/02/18		63	%	30 - 140
			C13-33'44'5-PentaCB-(126)	2016/02/18		99	%	30 - 140
			C13-33'44'-TetraCB-(77)	2016/02/18		98	%	30 - 140
			C13-344'5-TetraCB-(81)	2016/02/18		102	%	30 - 140
			C13-344'-TriCB-(37)	2016/02/18		106	%	30 - 140
			C13-44'-DiCB-(15)	2016/02/18		77	%	30 - 140
			C13-4-MonoCB-(3)	2016/02/18		73	%	15 - 140
			C13-DecaCB-(209)	2016/02/18		81	%	30 - 140
			C13-HexaCB-(156)+(157)	2016/02/18		93	%	30 - 140
			2-MonoCB-(1)	2016/02/18		0.043	%	N/A
			4-MonoCB-(3)	2016/02/18		0.0049	%	N/A
			22'-DiCB-(4)	2016/02/18		0.30	%	N/A
			4,4'-DiCB-(15)	2016/02/18		0.23	%	N/A
			22'6-TriCB-(19)	2016/02/18		0.19	%	N/A
			235-TriCB-(23)	2016/02/18		0	%	N/A
			23'5'-TriCB-(34)	2016/02/18		0.014	%	N/A
			344'-TriCB-(37)	2016/02/18		0.31	%	N/A
			22'66'-TetraCB-(54)	2016/02/18		0.015	%	N/A
			33'44'-TetraCB-(77)	2016/02/18		0.27	%	N/A
			344'5-TetraCB-(81)	2016/02/18		0.0084	%	N/A
			22'466'-PentaCB-(104)	2016/02/18		0	%	N/A
			233'44'-PentaCB-(105)	2016/02/18		2.1	%	N/A
			2344'5-PentaCB-(114)	2016/02/18		0.099	%	N/A
			23'44'5-PentaCB-(118)	2016/02/18		5.7	%	N/A
			23'44'5'-PentaCB-(123)	2016/02/18		0.057	%	N/A
			33'44'5-PentaCB-(126)	2016/02/18		0.012	%	N/A
			22'44'66'-HexaCB-(155)	2016/02/18		0	%	N/A
			HexaCB-(156)+(157)	2016/02/18		0.52	%	N/A
			23'44'55'-HexaCB-(167)	2016/02/18		0.30	%	N/A
			33'44'55'-HexaCB-(169)	2016/02/18		0	%	N/A
			22'33'44'5-HeptaCB-(170)	2016/02/18		0.11	%	N/A
			HeptaCB-(180)+(193)	2016/02/18		0.65	%	N/A
			22'344'56'-HeptaCB-(182)	2016/02/18		0	%	N/A

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Quality Assurance Report (Continued)

Maxxam Job Number: GB612062

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
4386412	CXU	QC Standard	22'34'55'6-HeptaCB-(187)	2016/02/18		1.9	%	N/A
			22'34'566'-HeptaCB-(188)	2016/02/18		0.0036	%	N/A
			233'44'55'-HeptaCB-(189)	2016/02/18		0.023	%	N/A
			22'33'55'66'-OctaCB-(202)	2016/02/18		0.20	%	N/A
			233'44'55'6-OctaCB-(205)	2016/02/18		0.0041	%	N/A
			22'33'44'55'6-NonaCB-(206)	2016/02/18		0.0073	%	N/A
			22'33'455'66'-NonaCB-(208)	2016/02/18		0	%	N/A
			DecaCB-(209)	2016/02/18		0.011	%	N/A
		Spiked Blank	C13-2,44'-TriCB-(28)	2016/02/18		113	%	40 - 125
		Spiked Blank DUP	C13-2,44'-TriCB-(28)	2016/02/18		110	%	40 - 125
		Spiked Blank	C13-22'33'44'55'6-NonaCB-(206)	2016/02/18		98	%	30 - 140
		Spiked Blank DUP	C13-22'33'44'55'6-NonaCB-(206)	2016/02/18		86	%	30 - 140
		Spiked Blank	C13-22'33'44'5-HeptaCB-(170)	2016/02/18		89	%	30 - 140
		Spiked Blank DUP	C13-22'33'44'5-HeptaCB-(170)	2016/02/18		75	%	30 - 140
		Spiked Blank	C13-22'33'455'66'-NonaCB-(208)	2016/02/18		87	%	30 - 140
		Spiked Blank DUP	C13-22'33'455'66'-NonaCB-(208)	2016/02/18		78	%	30 - 140
		Spiked Blank	C13-22'33'55'66'-OctaCB-(202)	2016/02/18		77	%	30 - 140
		Spiked Blank DUP	C13-22'33'55'66'-OctaCB-(202)	2016/02/18		65	%	30 - 140
		Spiked Blank	C13-22'33'55'6-HeptaCB-(178)	2016/02/18		99	%	40 - 125
		Spiked Blank DUP	C13-22'33'55'6-HeptaCB-(178)	2016/02/18		95	%	40 - 125
		Spiked Blank	C13-22'344'55'-HeptaCB-(180)	2016/02/18		86	%	30 - 140
		Spiked Blank DUP	C13-22'344'55'-HeptaCB-(180)	2016/02/18		74	%	30 - 140
		Spiked Blank	C13-22'34'566'-HeptaCB-(188)	2016/02/18		76	%	30 - 140
		Spiked Blank DUP	C13-22'34'566'-HeptaCB-(188)	2016/02/18		75	%	30 - 140
		Spiked Blank	C13-22'44'66'-HexaCB-(155)	2016/02/18		69	%	30 - 140
		Spiked Blank DUP	C13-22'44'66'-HexaCB-(155)	2016/02/18		69	%	30 - 140
		Spiked Blank	C13-22'466'-PentaCB-(104)	2016/02/18		76	%	30 - 140
		Spiked Blank DUP	C13-22'466'-PentaCB-(104)	2016/02/18		75	%	30 - 140
		Spiked Blank	C13-22'66'-TetraCB-(54)	2016/02/18		63	%	30 - 140
		Spiked Blank DUP	C13-22'66'-TetraCB-(54)	2016/02/18		59	%	30 - 140
		Spiked Blank	C13-22'6-TriCB-(19)	2016/02/18		57	%	30 - 140
		Spiked Blank DUP	C13-22'6-TriCB-(19)	2016/02/18		55	%	30 - 140
		Spiked Blank	C13-22'-DiCB-(4)	2016/02/18		52	%	30 - 140
		Spiked Blank DUP	C13-22'-DiCB-(4)	2016/02/18		51	%	30 - 140
		Spiked Blank	C13-233'44'55'6-OctaCB-(205)	2016/02/18		89	%	30 - 140
		Spiked Blank DUP	C13-233'44'55'6-OctaCB-(205)	2016/02/18		88	%	30 - 140
		Spiked Blank	C13-233'44'55'-HeptaCB-(189)	2016/02/18		100	%	30 - 140
		Spiked Blank DUP	C13-233'44'55'-HeptaCB-(189)	2016/02/18		90	%	30 - 140
		Spiked Blank	C13-233'44'-PentaCB-(105)	2016/02/18		91	%	30 - 140
		Spiked Blank DUP	C13-233'44'-PentaCB-(105)	2016/02/18		94	%	30 - 140
		Spiked Blank	C13-233'55'-PentaCB-(111)	2016/02/18		101	%	40 - 125
		Spiked Blank DUP	C13-233'55'-PentaCB-(111)	2016/02/18		98	%	40 - 125
		Spiked Blank	C13-23'44'55'-HexaCB-(167)	2016/02/18		88	%	30 - 140
		Spiked Blank DUP	C13-23'44'55'-HexaCB-(167)	2016/02/18		88	%	30 - 140
		Spiked Blank	C13-2344'5-PentaCB-(114)	2016/02/18		90	%	30 - 140
		Spiked Blank DUP	C13-2344'5-PentaCB-(114)	2016/02/18		92	%	30 - 140
		Spiked Blank	C13-23'44'5-PentaCB-(118)	2016/02/18		90	%	30 - 140
		Spiked Blank DUP	C13-23'44'5-PentaCB-(118)	2016/02/18		93	%	30 - 140
		Spiked Blank	C13-2'344'5-PentaCB-(123)	2016/02/18		90	%	30 - 140
		Spiked Blank DUP	C13-2'344'5-PentaCB-(123)	2016/02/18		92	%	30 - 140
		Spiked Blank	C13-2-MonoCB-(1)	2016/02/18		70	%	15 - 140
		Spiked Blank DUP	C13-2-MonoCB-(1)	2016/02/18		71	%	15 - 140
		Spiked Blank	C13-33'44'55'-HexaCB-(169)	2016/02/18		59	%	30 - 140
		Spiked Blank DUP	C13-33'44'55'-HexaCB-(169)	2016/02/18		66	%	30 - 140
		Spiked Blank	C13-33'44'5-PentaCB-(126)	2016/02/18		91	%	30 - 140

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Quality Assurance Report (Continued)

Maxxam Job Number: GB612062

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
4386412	CXU	Spiked Blank DUP	C13-33'44'5-PentaCB-(126)	2016/02/18		96	%	30 - 140
		Spiked Blank	C13-33'44'-TetraCB-(77)	2016/02/18		91	%	30 - 140
		Spiked Blank DUP	C13-33'44'-TetraCB-(77)	2016/02/18		96	%	30 - 140
		Spiked Blank	C13-344'5-TetraCB-(81)	2016/02/18		93	%	30 - 140
		Spiked Blank DUP	C13-344'5-TetraCB-(81)	2016/02/18		96	%	30 - 140
		Spiked Blank	C13-344'-TriCB-(37)	2016/02/18		96	%	30 - 140
		Spiked Blank DUP	C13-344'-TriCB-(37)	2016/02/18		98	%	30 - 140
		Spiked Blank	C13-44'-DiCB-(15)	2016/02/18		80	%	30 - 140
		Spiked Blank DUP	C13-44'-DiCB-(15)	2016/02/18		79	%	30 - 140
		Spiked Blank	C13-4-MonoCB-(3)	2016/02/18		66	%	15 - 140
		Spiked Blank DUP	C13-4-MonoCB-(3)	2016/02/18		67	%	15 - 140
		Spiked Blank	C13-DecaCB-(209)	2016/02/18		102	%	30 - 140
		Spiked Blank DUP	C13-DecaCB-(209)	2016/02/18		89	%	30 - 140
		Spiked Blank	C13-HexaCB-(156)+(157)	2016/02/18		89	%	30 - 140
		Spiked Blank DUP	C13-HexaCB-(156)+(157)	2016/02/18		93	%	30 - 140
		Spiked Blank	2-MonoCB-(1)	2016/02/18		102	%	50 - 150
		Spiked Blank DUP	2-MonoCB-(1)	2016/02/18		103	%	50 - 150
		RPD	2-MonoCB-(1)	2016/02/18	0.98		%	30
		Spiked Blank	4-MonoCB-(3)	2016/02/18		101	%	50 - 150
		Spiked Blank DUP	4-MonoCB-(3)	2016/02/18		105	%	50 - 150
		RPD	4-MonoCB-(3)	2016/02/18	3.9		%	30
		Spiked Blank	22'-DiCB-(4)	2016/02/18		112	%	50 - 150
		Spiked Blank DUP	22'-DiCB-(4)	2016/02/18		111	%	50 - 150
		RPD	22'-DiCB-(4)	2016/02/18	0.90		%	30
		Spiked Blank	4,4'-DiCB-(15)	2016/02/18		107	%	50 - 150
		Spiked Blank DUP	4,4'-DiCB-(15)	2016/02/18		107	%	50 - 150
		RPD	4,4'-DiCB-(15)	2016/02/18	0		%	30
		Spiked Blank	22'6-TriCB-(19)	2016/02/18		105	%	50 - 150
		Spiked Blank DUP	22'6-TriCB-(19)	2016/02/18		109	%	50 - 150
		RPD	22'6-TriCB-(19)	2016/02/18	3.7		%	30
		Spiked Blank	235-TriCB-(23)	2016/02/18		128	%	50 - 150
		Spiked Blank DUP	235-TriCB-(23)	2016/02/18		119	%	50 - 150
		RPD	235-TriCB-(23)	2016/02/18	7.3		%	30
		Spiked Blank	23'5'-TriCB-(34)	2016/02/18		93	%	50 - 150
		Spiked Blank DUP	23'5'-TriCB-(34)	2016/02/18		103	%	50 - 150
		RPD	23'5'-TriCB-(34)	2016/02/18	10		%	30
		Spiked Blank	344'-TriCB-(37)	2016/02/18		99	%	50 - 150
		Spiked Blank DUP	344'-TriCB-(37)	2016/02/18		103	%	50 - 150
		RPD	344'-TriCB-(37)	2016/02/18	4.0		%	30
		Spiked Blank	22'66'-TetraCB-(54)	2016/02/18		100	%	50 - 150
		Spiked Blank DUP	22'66'-TetraCB-(54)	2016/02/18		105	%	50 - 150
		RPD	22'66'-TetraCB-(54)	2016/02/18	4.9		%	30
		Spiked Blank	33'44'-TetraCB-(77)	2016/02/18		99	%	50 - 150
		Spiked Blank DUP	33'44'-TetraCB-(77)	2016/02/18		98	%	50 - 150
		RPD	33'44'-TetraCB-(77)	2016/02/18	1.0		%	30
		Spiked Blank	344'5-TetraCB-(81)	2016/02/18		101	%	50 - 150
		Spiked Blank DUP	344'5-TetraCB-(81)	2016/02/18		102	%	50 - 150
		RPD	344'5-TetraCB-(81)	2016/02/18	0.99		%	30
		Spiked Blank	22'466'-PentaCB-(104)	2016/02/18		103	%	50 - 150
		Spiked Blank DUP	22'466'-PentaCB-(104)	2016/02/18		101	%	50 - 150
		RPD	22'466'-PentaCB-(104)	2016/02/18	2.0		%	30
		Spiked Blank	233'44'-PentaCB-(105)	2016/02/18		101	%	50 - 150
		Spiked Blank DUP	233'44'-PentaCB-(105)	2016/02/18		101	%	50 - 150
		RPD	233'44'-PentaCB-(105)	2016/02/18	0		%	30
		Spiked Blank	2344'5-PentaCB-(114)	2016/02/18		98	%	50 - 150

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4386412	CXU	Spiked Blank DUP	2344'5-PentaCB-(114)	2016/02/18		100	%	50 - 150
		RPD	2344'5-PentaCB-(114)	2016/02/18	2.0		%	30
		Spiked Blank	23'44'5-PentaCB-(118)	2016/02/18		107	%	50 - 150
		Spiked Blank DUP	23'44'5-PentaCB-(118)	2016/02/18		107	%	50 - 150
		RPD	23'44'5-PentaCB-(118)	2016/02/18	0		%	30
		Spiked Blank	23'44'5'-PentaCB-(123)	2016/02/18		100	%	50 - 150
		Spiked Blank DUP	23'44'5'-PentaCB-(123)	2016/02/18		100	%	50 - 150
		RPD	23'44'5'-PentaCB-(123)	2016/02/18	0		%	30
		Spiked Blank	33'44'5-PentaCB-(126)	2016/02/18		99	%	50 - 150
		Spiked Blank DUP	33'44'5-PentaCB-(126)	2016/02/18		98	%	50 - 150
		RPD	33'44'5-PentaCB-(126)	2016/02/18	1.0		%	30
		Spiked Blank	22'44'66'-HexaCB-(155)	2016/02/18		104	%	50 - 150
		Spiked Blank DUP	22'44'66'-HexaCB-(155)	2016/02/18		105	%	50 - 150
		RPD	22'44'66'-HexaCB-(155)	2016/02/18	0.96		%	30
		Spiked Blank	HexaCB-(156)+(157)	2016/02/18		101	%	50 - 150
		Spiked Blank DUP	HexaCB-(156)+(157)	2016/02/18		101	%	50 - 150
		RPD	HexaCB-(156)+(157)	2016/02/18	0		%	30
		Spiked Blank	23'44'55'-HexaCB-(167)	2016/02/18		99	%	50 - 150
		Spiked Blank DUP	23'44'55'-HexaCB-(167)	2016/02/18		101	%	50 - 150
		RPD	23'44'55'-HexaCB-(167)	2016/02/18	2.0		%	30
		Spiked Blank	33'44'55'-HexaCB-(169)	2016/02/18		103	%	50 - 150
		Spiked Blank DUP	33'44'55'-HexaCB-(169)	2016/02/18		100	%	50 - 150
		RPD	33'44'55'-HexaCB-(169)	2016/02/18	3.0		%	30
		Spiked Blank	22'33'44'5-HeptaCB-(170)	2016/02/18		98	%	50 - 150
		Spiked Blank DUP	22'33'44'5-HeptaCB-(170)	2016/02/18		104	%	50 - 150
		RPD	22'33'44'5-HeptaCB-(170)	2016/02/18	5.9		%	30
		Spiked Blank	HeptaCB-(180)+(193)	2016/02/18		86	%	50 - 150
		Spiked Blank DUP	HeptaCB-(180)+(193)	2016/02/18		85	%	50 - 150
		RPD	HeptaCB-(180)+(193)	2016/02/18	1.2		%	30
		Spiked Blank	22'344'56'-HeptaCB-(182)	2016/02/18		88	%	50 - 150
		Spiked Blank DUP	22'344'56'-HeptaCB-(182)	2016/02/18		86	%	50 - 150
		RPD	22'344'56'-HeptaCB-(182)	2016/02/18	2.3		%	30
		Spiked Blank	22'34'55'6-HeptaCB-(187)	2016/02/18		95	%	50 - 150
		Spiked Blank DUP	22'34'55'6-HeptaCB-(187)	2016/02/18		93	%	50 - 150
		RPD	22'34'55'6-HeptaCB-(187)	2016/02/18	2.1		%	30
		Spiked Blank	22'34'566'-HeptaCB-(188)	2016/02/18		99	%	50 - 150
		Spiked Blank DUP	22'34'566'-HeptaCB-(188)	2016/02/18		103	%	50 - 150
		RPD	22'34'566'-HeptaCB-(188)	2016/02/18	4.0		%	30
		Spiked Blank	233'44'55'-HeptaCB-(189)	2016/02/18		94	%	50 - 150
		Spiked Blank DUP	233'44'55'-HeptaCB-(189)	2016/02/18		96	%	50 - 150
		RPD	233'44'55'-HeptaCB-(189)	2016/02/18	2.1		%	30
		Spiked Blank	22'33'55'66'-OctaCB-(202)	2016/02/18		101	%	50 - 150
		Spiked Blank DUP	22'33'55'66'-OctaCB-(202)	2016/02/18		102	%	50 - 150
		RPD	22'33'55'66'-OctaCB-(202)	2016/02/18	0.99		%	30
		Spiked Blank	233'44'55'6-OctaCB-(205)	2016/02/18		97	%	50 - 150
		Spiked Blank DUP	233'44'55'6-OctaCB-(205)	2016/02/18		96	%	50 - 150
		RPD	233'44'55'6-OctaCB-(205)	2016/02/18	1.0		%	30
		Spiked Blank	22'33'44'55'6-NonaCB-(206)	2016/02/18		96	%	50 - 150
		Spiked Blank DUP	22'33'44'55'6-NonaCB-(206)	2016/02/18		100	%	50 - 150
		RPD	22'33'44'55'6-NonaCB-(206)	2016/02/18	4.1		%	30
		Spiked Blank	22'33'455'66'-NonaCB-(208)	2016/02/18		102	%	50 - 150
		Spiked Blank DUP	22'33'455'66'-NonaCB-(208)	2016/02/18		98	%	50 - 150
		RPD	22'33'455'66'-NonaCB-(208)	2016/02/18	4.0		%	30
		Spiked Blank	DecaCB-(209)	2016/02/18		154 Q	%	50 - 150
		Spiked Blank DUP	DecaCB-(209)	2016/02/18		153 Q	%	50 - 150

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4386412	CXU	RPD	DecaCB-(209)	2016/02/18	0.65		%	30
		Method Blank	C13-2,44'-TriCB-(28)	2016/02/18		110	%	40 - 125
			C13-22'33'44'55'6-NonaCB-(206)	2016/02/18		85	%	30 - 140
			C13-22'33'44'5-HeptaCB-(170)	2016/02/18		76	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2016/02/18		76	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2016/02/18		66	%	30 - 140
			C13-22'33'55'6-HeptaCB-(178)	2016/02/18		91	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2016/02/18		75	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2016/02/18		75	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2016/02/18		67	%	30 - 140
			C13-22'466'-PentaCB-(104)	2016/02/18		74	%	30 - 140
			C13-22'66'-TetraCB-(54)	2016/02/18		55	%	30 - 140
			C13-22'6-TriCB-(19)	2016/02/18		52	%	30 - 140
			C13-22'-DiCB-(4)	2016/02/18		45	%	30 - 140
			C13-233'44'55'6-OctaCB-(205)	2016/02/18		88	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2016/02/18		93	%	30 - 140
			C13-233'44'-PentaCB-(105)	2016/02/18		97	%	30 - 140
			C13-233'55'-PentaCB-(111)	2016/02/18		97	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2016/02/18		89	%	30 - 140
			C13-2344'5-PentaCB-(114)	2016/02/18		95	%	30 - 140
			C13-23'44'5-PentaCB-(118)	2016/02/18		96	%	30 - 140
			C13-2'344'5-PentaCB-(123)	2016/02/18		96	%	30 - 140
			C13-2-MonoCB-(1)	2016/02/18		62	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2016/02/18		68	%	30 - 140
			C13-33'44'5-PentaCB-(126)	2016/02/18		96	%	30 - 140
			C13-33'44'-TetraCB-(77)	2016/02/18		97	%	30 - 140
			C13-344'5-TetraCB-(81)	2016/02/18		97	%	30 - 140
			C13-344'-TriCB-(37)	2016/02/18		99	%	30 - 140
			C13-44'-DiCB-(15)	2016/02/18		77	%	30 - 140
			C13-4-MonoCB-(3)	2016/02/18		57	%	15 - 140
			C13-DecaCB-(209)	2016/02/18		89	%	30 - 140
			C13-HexaCB-(156)+(157)	2016/02/18		93	%	30 - 140
			2-MonoCB-(1)	2016/02/18	0.00061 U, EDL=0.00061		ng/g	
			3-MonoCB-(2)	2016/02/18	0.00055 U, EDL=0.00055		ng/g	
			4-MonoCB-(3)	2016/02/18	0.00061 U, EDL=0.00061		ng/g	
			22'-DiCB-(4)	2016/02/18	0.0021 U, EDL=0.0021		ng/g	
			2,3-DiCB-(5)	2016/02/18	0.0027 U, EDL=0.0027		ng/g	
			2,3'-DiCB-(6)	2016/02/18	0.0020 U, EDL=0.0020		ng/g	
			2,4-DiCB-(7)	2016/02/18	0.0023 U, EDL=0.0023		ng/g	
			2,4'-DiCB-(8)	2016/02/18	0.0023 U, EDL=0.0023 (1)		ng/g	
			2,5-DiCB-(9)	2016/02/18	0.0020 U, EDL=0.0020		ng/g	
			2,6-DiCB-(10)	2016/02/18	0.0016 U, EDL=0.0016		ng/g	
			3,3'-DiCB-(11)	2016/02/18	0.0092 JB, EDL=0.0021		ng/g	
			DiCB-(12)+(13)	2016/02/18	0.0022 U, EDL=0.0022		ng/g	
			3,5-DiCB-(14)	2016/02/18	0.0020 U, EDL=0.0020		ng/g	
			4,4'-DiCB-(15)	2016/02/18	0.0030 U, EDL=0.0030		ng/g	
			22'3-TriCB-(16)	2016/02/18	0.0039 U, EDL=0.0039		ng/g	
			22'4-TriCB-(17)	2016/02/18	0.0029 U, EDL=0.0029		ng/g	
			TriCB-(18)+(30)	2016/02/18	0.0024 U, EDL=0.0024		ng/g	
			22'6-TriCB-(19)	2016/02/18	0.0022 U, EDL=0.0022		ng/g	
			TriCB-(20) + (28)	2016/02/18	0.00436 J, EDL=0.00052		ng/g	
			TriCB-(21)+(33)	2016/02/18	0.00231 J, EDL=0.00050		ng/g	
			234'-TriCB-(22)	2016/02/18	0.00161 J, EDL=0.00055		ng/g	
			235-TriCB-(23)	2016/02/18	0.00060 U, EDL=0.00060		ng/g	
			236-TriCB-(24)	2016/02/18	0.0023 U, EDL=0.0023		ng/g	

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4386412	CXU	Method Blank	23'4-TriCB-(25)	2016/02/18	0.00047 U,	EDL=0.00047	ng/g	
			TriCB-(26)+(29)	2016/02/18	0.00069 J,	EDL=0.00051	ng/g	
			23'6-TriCB-(27)	2016/02/18	0.0020 U,	EDL=0.0020	ng/g	
			24'5-TriCB-(31)	2016/02/18	0.00340 J,	EDL=0.00047	ng/g	
			24'6-TriCB-(32)	2016/02/18	0.0018 U,	EDL=0.0018	ng/g	
			23'5'-TriCB-(34)	2016/02/18	0.00050 U,	EDL=0.00050	ng/g	
			33'4-TriCB-(35)	2016/02/18	0.00039 U,	EDL=0.00039	ng/g	
			33'5-TriCB-(36)	2016/02/18	0.00040 U,	EDL=0.00040	ng/g	
			344'-TriCB-(37)	2016/02/18	0.00143 J,	EDL=0.00069	ng/g	
			345-TriCB-(38)	2016/02/18	0.00043 U,	EDL=0.00043	ng/g	
			34'5-TriCB-(39)	2016/02/18	0.00047 U,	EDL=0.00047	ng/g	
			TetraCB-(40)+(41)+(71)	2016/02/18	0.0018 U,	EDL=0.0018	ng/g	
			22'34'-TetraCB-(42)	2016/02/18	0.0019 U,	EDL=0.0019	ng/g	
			22'35-TetraCB-(43)	2016/02/18	0.0025 U,	EDL=0.0025	ng/g	
			TetraCB-(44)+(47)+(65)	2016/02/18	0.0039 U,	EDL=0.0039 (1)	ng/g	
			TetraCB-(45)+(51)	2016/02/18	0.0020 U,	EDL=0.0020	ng/g	
			22'36'-TetraCB-(46)	2016/02/18	0.0023 U,	EDL=0.0023	ng/g	
			22'45-TetraCB-(48)	2016/02/18	0.0019 U,	EDL=0.0019	ng/g	
			TetraCB-(49)+TetraCB-(69)	2016/02/18	0.0016 J,	EDL=0.0015	ng/g	
			TetraCB-(50)+(53)	2016/02/18	0.0020 U,	EDL=0.0020	ng/g	
			22'55'-TetraCB-(52)	2016/02/18	0.0020 J,	EDL=0.0016	ng/g	
			22'66'-TetraCB-(54)	2016/02/18	0.00016 U,	EDL=0.00016	ng/g	
			233'4-TetraCB-(55)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	
			233'4'-Tetra CB(56)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	
			233'5-TetraCB-(57)	2016/02/18	0.00090 U,	EDL=0.00090	ng/g	
			233'5'-TetraCB-(58)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	
			TetraCB-(59)+(62)+(75)	2016/02/18	0.0013 U,	EDL=0.0013	ng/g	
			2344'-TetraCB -(60)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	
			TetraCB-(61)+(70)+(74)+(76)	2016/02/18	0.00519 J,	EDL=0.00099	ng/g	
			234'5-TetraCB-(63)	2016/02/18	0.00088 U,	EDL=0.00088	ng/g	
			234'6-TetraCB-(64)	2016/02/18	0.0014 U,	EDL=0.0014	ng/g	
			23'44'-TetraCB-(66)	2016/02/18	0.00281 J,	EDL=0.00089	ng/g	
			23'45-TetraCB-(67)	2016/02/18	0.00082 U,	EDL=0.00082	ng/g	
			23'45'-TetraCB-(68)	2016/02/18	0.00090 U,	EDL=0.00090	ng/g	
			23'55'-TetraCB-(72)	2016/02/18	0.00084 U,	EDL=0.00084	ng/g	
			23'5'6-TetraCB-(73)	2016/02/18	0.0016 U,	EDL=0.0016	ng/g	
			33'44'-TetraCB-(77)	2016/02/18	0.0010 U,	EDL=0.0010	ng/g	
			33'45-TetraCB-(78)	2016/02/18	0.00085 U,	EDL=0.00085	ng/g	
			33'45'-TetraCB(79)	2016/02/18	0.00075 U,	EDL=0.00075	ng/g	
			33'55'-TetraCB-(80)	2016/02/18	0.00090 U,	EDL=0.00090	ng/g	
			344'5-TetraCB-(81)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	
			22'33'4-PentaCB-(82)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	
			PentaCB-(83)+(99)	2016/02/18	0.0048 J,	EDL=0.0010	ng/g	
			22'33'6-PentaCB-(84)	2016/02/18	0.0012 U,	EDL=0.0012	ng/g	
			PentaCB-(85)+(116)+(117)	2016/02/18	0.00113 J,	EDL=0.00079	ng/g	
			PentaCB-(86)(87)(97)(109)(119)(125)	2016/02/18	0.00196 J,	EDL=0.00087	ng/g	
			PentaCB-(88)+(91)	2016/02/18	0.0010 U,	EDL=0.0010	ng/g	
			22'346'-PentaCB-(89)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	
			PentaCB-(90)+(101)+(113)	2016/02/18	0.00586 J,	EDL=0.00089	ng/g	
			22'355'-PentaCB-(92)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	
			PentaCB-(93)+(98)+(100)+(102)	2016/02/18	0.0010 U,	EDL=0.0010	ng/g	
			22'356'-PentaCB-(94)	2016/02/18	0.0012 U,	EDL=0.0012	ng/g	
			22'35'6-PentaCB-(95)	2016/02/18	0.00092 U,	EDL=0.00092	ng/g	
			22'366'-PentaCB-(96)	2016/02/18	0.00018 U,	EDL=0.00018	ng/g	
			22'45'6-PentaCB-(103)	2016/02/18	0.00085 U,	EDL=0.00085	ng/g	

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4386412	CXU	Method Blank	22'466'-PentaCB-(104)	2016/02/18	0.00015 U,	EDL=0.00015	ng/g	
			233'44'-PentaCB-(105)	2016/02/18	0.00227 J,	EDL=0.00062	ng/g	
			233'45-PentaCB-(106)	2016/02/18	0.00050 U,	EDL=0.00050	ng/g	
			233'4'5-PentaCB-(107)	2016/02/18	0.00098 J,	EDL=0.00053	ng/g	
			PentaCB-(108)+(124)	2016/02/18	0.00054 U,	EDL=0.00054	ng/g	
			PentaCB-(110)+(115)	2016/02/18	0.00336 J,	EDL=0.00084	ng/g	
			233'55'-PentaCB-(111)	2016/02/18	0.00078 U,	EDL=0.00078	ng/g	
			233'56-PentaCB-(112)	2016/02/18	0.00077 U,	EDL=0.00077	ng/g	
			2344'5-PentaCB-(114)	2016/02/18	0.00060 U,	EDL=0.00060	ng/g	
			23'44'5-PentaCB-(118)	2016/02/18	0.00707 JB,	EDL=0.00062	ng/g	
			23'455'-PentaCB-(120)	2016/02/18	0.00066 U,	EDL=0.00066	ng/g	
			23'45'6-PentaCB-(121)	2016/02/18	0.00083 U,	EDL=0.00083	ng/g	
			233'4'5'-PentaCB-(122)	2016/02/18	0.00056 U,	EDL=0.00056	ng/g	
			23'44'5'-PentaCB-(123)	2016/02/18	0.00068 U,	EDL=0.00068	ng/g	
			33'44'5-PentaCB-(126)	2016/02/18	0.00062 U,	EDL=0.00062	ng/g	
			33'455'-PentaCB-(127)	2016/02/18	0.00049 U,	EDL=0.00049	ng/g	
			HexaCB-(128)+(166)	2016/02/18	0.00099 U,	EDL=0.00099	ng/g	
			HexaCB-(129)+(138)+(163)	2016/02/18	0.0113 J,	EDL=0.0011	ng/g	
			22'33'45'-HexaCB-(130)	2016/02/18	0.0012 U,	EDL=0.0012	ng/g	
			22'33'46-HexaCB-(131)	2016/02/18	0.0014 U,	EDL=0.0014	ng/g	
			22'33'46'-HexaCB-(132)	2016/02/18	0.0014 U,	EDL=0.0014	ng/g	
			22'33'55'-HexaCB-(133)	2016/02/18	0.0012 U,	EDL=0.0012	ng/g	
			HexaCB-(134)+(143)	2016/02/18	0.0013 U,	EDL=0.0013	ng/g	
			HexaCB-(135)+(151)	2016/02/18	0.0027 U,	EDL=0.0027	ng/g	
			22'33'66'-HexaCB-(136)	2016/02/18	0.0019 U,	EDL=0.0019	ng/g	
			22'344'5-HexaCB-(137)	2016/02/18	0.0013 U,	EDL=0.0013	ng/g	
			HexaCB-(139)+(140)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	
			22'3455'-HexaCB-(141)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	
			22'3456-HexaCB-(142)	2016/02/18	0.0012 U,	EDL=0.0012	ng/g	
			22'345'6-HexaCB-(144)	2016/02/18	0.0025 U,	EDL=0.0025	ng/g	
			22'3466'-HexaCB-(145)	2016/02/18	0.0021 U,	EDL=0.0021	ng/g	
			22'34'55'-HexaCB-(146)	2016/02/18	0.0031 J,	EDL=0.0011	ng/g	
			HexaCB-(147)+(149)	2016/02/18	0.0026 J,	EDL=0.0012	ng/g	
			22'34'56'-HexaCB-(148)	2016/02/18	0.0026 U,	EDL=0.0026	ng/g	
			22'34'66'-HexaCB-(150)	2016/02/18	0.0022 U,	EDL=0.0022	ng/g	
			22'3566'-HexaCB-(152)	2016/02/18	0.0017 U,	EDL=0.0017	ng/g	
			HexaCB-(153)+(168)	2016/02/18	0.010 U,	EDL=0.010 (1)	ng/g	
			22'44'56'-HexaCB-(154)	2016/02/18	0.0023 U,	EDL=0.0023	ng/g	
			22'44'66'-HexaCB-(155)	2016/02/18	0.0014 U,	EDL=0.0014	ng/g	
			HexaCB-(156)+(157)	2016/02/18	0.00125 J,	EDL=0.00048	ng/g	
			233'44'6-HexaCB-(158)	2016/02/18	0.00077 U,	EDL=0.00077	ng/g	
			233'455'-HexaCB-(159)	2016/02/18	0.00041 U,	EDL=0.00041	ng/g	
			233'456-HexaCB-(160)	2016/02/18	0.00094 U,	EDL=0.00094	ng/g	
			233'45'6-HexaCB-(161)	2016/02/18	0.00079 U,	EDL=0.00079	ng/g	
			233'4'55'-HexaCB-(162)	2016/02/18	0.00044 U,	EDL=0.00044	ng/g	
			233'4'5'6-HexaCB-(164)	2016/02/18	0.00084 U,	EDL=0.00084	ng/g	
			233'55'6-HexaCB-(165)	2016/02/18	0.0010 U,	EDL=0.0010	ng/g	
			23'44'55'-HexaCB-(167)	2016/02/18	0.00056 U,	EDL=0.00056 (1)	ng/g	
			33'44'55'-HexaCB-(169)	2016/02/18	0.00051 U,	EDL=0.00051	ng/g	
			22'33'44'5-HeptaCB-(170)	2016/02/18	0.00096 U,	EDL=0.00096	ng/g	
			HeptaCB-(171)+(173)	2016/02/18	0.0013 U,	EDL=0.0013	ng/g	
			22'33'455'-HeptaCB-(172)	2016/02/18	0.0013 U,	EDL=0.0013	ng/g	
			22'33'456'-HeptaCB-(174)	2016/02/18	0.0013 U,	EDL=0.0013	ng/g	
			22'33'45'6-HeptaCB-(175)	2016/02/18	0.0015 U,	EDL=0.0015	ng/g	
			22'33'466'-HeptaCB-(176)	2016/02/18	0.0011 U,	EDL=0.0011	ng/g	

Anchor QEA, LLC
Attention: Anchor QEA Reporting Group
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Quality Assurance Report (Continued)

Maxxam Job Number: GB612062

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
4386412	CXU	Method Blank	22'33'45'6'-HeptaCB-(177)	2016/02/18	0.0013 U, EDL=0.0013		ng/g	
			22'33'55'6-HeptaCB-(178)	2016/02/18	0.0016 U, EDL=0.0016		ng/g	
			22'33'566'-HeptaCB-(179)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			HeptaCB-(180)+(193)	2016/02/18	0.00365 J, EDL=0.00088		ng/g	
			22'344'56-HeptaCB-(181)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'344'56'-HeptaCB-(182)	2016/02/18	0.0015 U, EDL=0.0015		ng/g	
			22'344'5'6-HeptaCB-(183)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			22'344'66'-HeptaCB-(184)	2016/02/18	0.0012 U, EDL=0.0012		ng/g	
			22'3455'6-HeptaCB-(185)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'34566'-HeptaCB-(186)	2016/02/18	0.0012 U, EDL=0.0012		ng/g	
			22'34'55'6-HeptaCB-(187)	2016/02/18	0.0041 J, EDL=0.0016		ng/g	
			22'34'566'-HeptaCB-(188)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			233'44'55'-HeptaCB-(189)	2016/02/18	0.00048 U, EDL=0.00048		ng/g	
			233'44'56-HeptaCB-(190)	2016/02/18	0.00091 U, EDL=0.00091		ng/g	
			233'44'5'6-HeptaCB-(191)	2016/02/18	0.00090 U, EDL=0.00090		ng/g	
			233'455'6-HeptaCB-(192)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			22'33'44'55'-OctaCB-(194)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'33'44'56-OctaCB-(195)	2016/02/18	0.0015 U, EDL=0.0015		ng/g	
			22'33'44'56'-OctaCB-(196)	2016/02/18	0.0024 U, EDL=0.0024		ng/g	
			22'33'44'66'OctaCB-(197)	2016/02/18	0.0019 U, EDL=0.0019		ng/g	
			OctaCB-(198)+(199)	2016/02/18	0.0025 U, EDL=0.0025		ng/g	
			22'33'4566'-OctaCB-(200)	2016/02/18	0.0016 U, EDL=0.0016		ng/g	
			22'33'45'66'-OctaCB-(201)	2016/02/18	0.0017 U, EDL=0.0017		ng/g	
			22'33'55'66'-OctaCB-(202)	2016/02/18	0.0017 U, EDL=0.0017		ng/g	
			22'344'55'6-OctaCB-(203)	2016/02/18	0.0025 U, EDL=0.0025		ng/g	
			22'344'566'-OctaCB-(204)	2016/02/18	0.0017 U, EDL=0.0017		ng/g	
			233'44'55'6-OctaCB-(205)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'33'44'55'6-NonaCB-(206)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'33'44'566'-NonaCB-(207)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			22'33'455'66'-NonaCB-(208)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			DecaCB-(209)	2016/02/18	0.0581 B, EDL=0.00038		ng/g	
			Total PCB	2016/02/18	0.146		ng/g	
		RPD - Sample/Sample Dup	2-MonoCB-(1)	2016/02/18	NC		%	30
			3-MonoCB-(2)	2016/02/18	NC		%	30
			4-MonoCB-(3)	2016/02/18	NC		%	30
			22'-DiCB-(4)	2016/02/18	NC		%	30
			2,3-DiCB-(5)	2016/02/18	NC		%	30
			2,3'-DiCB-(6)	2016/02/18	NC		%	30
			2,4-DiCB-(7)	2016/02/18	NC		%	30
			2,4'-DiCB-(8)	2016/02/18	NC		%	30
			2,5-DiCB-(9)	2016/02/18	NC		%	30
			2,6-DiCB-(10)	2016/02/18	NC		%	30
			3,3'-DiCB-(11)	2016/02/18	NC		%	30
			DiCB-(12)+(13)	2016/02/18	NC		%	30
			3,5-DiCB-(14)	2016/02/18	NC		%	30
			4,4'-DiCB-(15)	2016/02/18	NC		%	30
			22'3-TriCB-(16)	2016/02/18	NC		%	30
			22'4-TriCB-(17)	2016/02/18	NC		%	30
			TriCB-(18)+(30)	2016/02/18	NC		%	30
			22'6-TriCB-(19)	2016/02/18	NC		%	30
			TriCB-(20) + (28)	2016/02/18	3.7		%	30
			TriCB-(21)+(33)	2016/02/18	NC		%	30
			234'-TriCB-(22)	2016/02/18	1.5		%	30

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Anchor QEA, LLC
Attention: Anchor QEA Reporting Group
Client Project #: ATS0
P.O. #:
Site Location: PORT GAMBLE CLEAN-UP

Quality Assurance Report (Continued)

Maxxam Job Number: GB612062

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
4386412	CXU	RPD - Sample/Sample Dup	235-TriCB-(23)	2016/02/18	NC		%	30
			236-TriCB-(24)	2016/02/18	NC		%	30
			23'4-TriCB-(25)	2016/02/18	NC		%	30
			TriCB-(26)+(29)	2016/02/18	NC		%	30
			23'6-TriCB-(27)	2016/02/18	NC		%	30
			24'5-TriCB-(31)	2016/02/18	1.5		%	30
			24'6-TriCB-(32)	2016/02/18	NC		%	30
			23'5'-TriCB-(34)	2016/02/18	NC		%	30
			33'4-TriCB-(35)	2016/02/18	NC		%	30
			33'5-TriCB-(36)	2016/02/18	NC		%	30
			344'-TriCB-(37)	2016/02/18	NC		%	30
			345-TriCB-(38)	2016/02/18	NC		%	30
			34'5-TriCB-(39)	2016/02/18	NC		%	30
			TetraCB-(40)+(41)+(71)	2016/02/18	NC		%	30
			22'34'-TetraCB-(42)	2016/02/18	1.8		%	30
			22'35-TetraCB-(43)	2016/02/18	NC		%	30
			TetraCB-(44)+(47)+(65)	2016/02/18	0.67		%	30
			TetraCB-(45)+(51)	2016/02/18	NC		%	30
			22'36'-TetraCB-(46)	2016/02/18	NC		%	30
			22'45-TetraCB-(48)	2016/02/18	0.33		%	30
			TetraCB-(49)+TetraCB-(69)	2016/02/18	2.4		%	30
			TetraCB-(50)+(53)	2016/02/18	NC		%	30
			22'55'-TetraCB-(52)	2016/02/18	0.40		%	30
			22'66'-TetraCB-(54)	2016/02/18	NC		%	30
			233'4-TetraCB-(55)	2016/02/18	NC		%	30
			233'4'-Tetra CB(56)	2016/02/18	NC		%	30
			233'5-TetraCB-(57)	2016/02/18	NC		%	30
			233'5'-TetraCB-(58)	2016/02/18	NC		%	30
			TetraCB-(59)+(62)+(75)	2016/02/18	NC		%	30
			2344'-TetraCB -(60)	2016/02/18	NC		%	30
			TetraCB-(61)+(70)+(74)+(76)	2016/02/18	NC		%	30
			234'5-TetraCB-(63)	2016/02/18	NC		%	30
			234'6-TetraCB-(64)	2016/02/18	1.3		%	30
			23'44'-TetraCB-(66)	2016/02/18	NC		%	30
			23'45-TetraCB-(67)	2016/02/18	NC		%	30
			23'45'-TetraCB-(68)	2016/02/18	NC		%	30
			23'55'-TetraCB-(72)	2016/02/18	NC		%	30
			23'5'6-TetraCB-(73)	2016/02/18	NC		%	30
			33'44'-TetraCB-(77)	2016/02/18	NC		%	30
			33'45-TetraCB-(78)	2016/02/18	NC		%	30
			33'45'-TetraCB(79)	2016/02/18	NC		%	30
			33'55'-TetraCB-(80)	2016/02/18	NC		%	30
			344'5-TetraCB-(81)	2016/02/18	NC		%	30
			22'33'4-PentaCB-(82)	2016/02/18	NC		%	30
			PentaCB-(83)+(99)	2016/02/18	NC		%	30
			22'33'6-PentaCB-(84)	2016/02/18	NC		%	30
			PentaCB-(85)+(116)+(117)	2016/02/18	NC		%	30
			PentaCB-(86)(87)(97)(109)(119)(125)	2016/02/18	NC		%	30
			PentaCB-(88)+(91)	2016/02/18	NC		%	30
			22'346'-PentaCB-(89)	2016/02/18	NC		%	30
			PentaCB-(90)+(101)+(113)	2016/02/18	NC		%	30
			22'355'-PentaCB-(92)	2016/02/18	NC		%	30
			PentaCB-(93)+(98)+(100)+(102)	2016/02/18	NC		%	30

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Attention: Anchor QEA Reporting Group
Client Project #: ATS0
P.O. #:
Site Location: PORT GAMBLE CLEAN-UP

Quality Assurance Report (Continued)

Maxxam Job Number: GB612062

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
4386412	CXU	RPD - Sample/Sample Dup	22'356'-PentaCB-(94)	2016/02/18	NC		%	30
			22'35'6-PentaCB-(95)	2016/02/18	1.6		%	30
			22'366'-PentaCB-(96)	2016/02/18	NC (1)		%	30
			22'45'6-PentaCB-(103)	2016/02/18	NC		%	30
			22'466'-PentaCB-(104)	2016/02/18	NC		%	30
			233'44'-PentaCB-(105)	2016/02/18	NC		%	30
			233'45-PentaCB-(106)	2016/02/18	NC		%	30
			233'4'5-PentaCB-(107)	2016/02/18	NC		%	30
			PentaCB-(108)+(124)	2016/02/18	NC		%	30
			PentaCB-(110)+(115)	2016/02/18	NC		%	30
			233'55'-PentaCB-(111)	2016/02/18	NC		%	30
			233'56-PentaCB-(112)	2016/02/18	NC		%	30
			2344'5-PentaCB-(114)	2016/02/18	NC		%	30
			23'44'5-PentaCB-(118)	2016/02/18	3.9		%	30
			23'455'-PentaCB-(120)	2016/02/18	NC		%	30
			23'45'6-PentaCB-(121)	2016/02/18	NC		%	30
			233'4'5'-PentaCB-(122)	2016/02/18	NC		%	30
			23'44'5'-PentaCB-(123)	2016/02/18	NC		%	30
			33'44'5-PentaCB-(126)	2016/02/18	NC		%	30
			33'455'-PentaCB-(127)	2016/02/18	NC		%	30
			HexaCB-(128)+(166)	2016/02/18	NC		%	30
			HexaCB-(129)+(138)+(163)	2016/02/18	1.9		%	30
			22'33'45'-HexaCB-(130)	2016/02/18	NC		%	30
			22'33'46-HexaCB-(131)	2016/02/18	NC		%	30
			22'33'46'-HexaCB-(132)	2016/02/18	NC		%	30
			22'33'55'-HexaCB-(133)	2016/02/18	NC		%	30
			HexaCB-(134)+(143)	2016/02/18	NC		%	30
			HexaCB-(135)+(151)	2016/02/18	NC		%	30
			22'33'66'-HexaCB-(136)	2016/02/18	NC		%	30
			22'344'5-HexaCB-(137)	2016/02/18	NC		%	30
			HexaCB-(139)+(140)	2016/02/18	NC		%	30
			22'3455'-HexaCB-(141)	2016/02/18	NC		%	30
			22'3456-HexaCB-(142)	2016/02/18	NC		%	30
			22'345'6-HexaCB-(144)	2016/02/18	NC		%	30
			22'3466'-HexaCB-(145)	2016/02/18	NC		%	30
			22'34'55'-HexaCB-(146)	2016/02/18	1.5		%	30
			HexaCB-(147)+(149)	2016/02/18	0.77		%	30
			22'34'56'-HexaCB-(148)	2016/02/18	NC		%	30
			22'34'66'-HexaCB-(150)	2016/02/18	NC		%	30
			22'3566'-HexaCB-(152)	2016/02/18	NC		%	30
			HexaCB-(153)+(168)	2016/02/18	1.2		%	30
			22'44'56'-HexaCB-(154)	2016/02/18	NC		%	30
			22'44'66'-HexaCB-(155)	2016/02/18	NC		%	30
			HexaCB-(156)+(157)	2016/02/18	NC		%	30
			233'44'6-HexaCB-(158)	2016/02/18	NC		%	30
			233'455'-HexaCB-(159)	2016/02/18	NC		%	30
			233'456-HexaCB-(160)	2016/02/18	NC		%	30
			233'45'6-HexaCB-(161)	2016/02/18	NC		%	30
			233'4'55'-HexaCB-(162)	2016/02/18	NC		%	30
			233'4'5'6-HexaCB-(164)	2016/02/18	NC		%	30
			233'55'6-HexaCB-(165)	2016/02/18	NC		%	30
			23'44'55'-HexaCB-(167)	2016/02/18	NC		%	30
			33'44'55'-HexaCB-(169)	2016/02/18	NC		%	30

Anchor QEA, LLC
Attention: Anchor QEA Reporting Group
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Site Location: PORT GAMBLE CLEAN-UP

Quality Assurance Report (Continued)

Maxxam Job Number: GB612062

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
4386412	CXU	RPD - Sample/Sample Dup	22'33'44'5-HeptaCB-(170)	2016/02/18	NC		%	30
			HeptaCB-(171)+(173)	2016/02/18	NC		%	30
			22'33'455'-HeptaCB-(172)	2016/02/18	NC		%	30
			22'33'456'-HeptaCB-(174)	2016/02/18	NC		%	30
			22'33'45'6-HeptaCB-(175)	2016/02/18	NC		%	30
			22'33'466'-HeptaCB-(176)	2016/02/18	NC		%	30
			22'33'45'6'-HeptaCB-(177)	2016/02/18	NC		%	30
			22'33'55'6-HeptaCB-(178)	2016/02/18	NC		%	30
			22'33'566'-HeptaCB-(179)	2016/02/18	NC		%	30
			HeptaCB-(180)+(193)	2016/02/18	0.85		%	30
			22'344'56-HeptaCB-(181)	2016/02/18	NC		%	30
			22'344'56'-HeptaCB-(182)	2016/02/18	NC		%	30
			22'344'5'6-HeptaCB-(183)	2016/02/18	0.69		%	30
			22'344'66'-HeptaCB-(184)	2016/02/18	NC		%	30
			22'3455'6-HeptaCB-(185)	2016/02/18	NC		%	30
			22'34566'-HeptaCB-(186)	2016/02/18	NC		%	30
			22'34'55'6-HeptaCB-(187)	2016/02/18	0.85		%	30
			22'34'566'-HeptaCB-(188)	2016/02/18	NC		%	30
			233'44'55'-HeptaCB-(189)	2016/02/18	NC		%	30
			233'44'56-HeptaCB-(190)	2016/02/18	NC		%	30
			233'44'5'6-HeptaCB-(191)	2016/02/18	NC		%	30
			233'455'6-HeptaCB-(192)	2016/02/18	NC		%	30
			22'33'44'55'-OctaCB-(194)	2016/02/18	NC (1)		%	30
			22'33'44'56-OctaCB-(195)	2016/02/18	NC		%	30
			22'33'44'56'-OctaCB-(196)	2016/02/18	NC		%	30
			22'33'44'66'OctaCB-(197)	2016/02/18	NC		%	30
			OctaCB-(198)+(199)	2016/02/18	NC		%	30
			22'33'4566'-OctaCB-(200)	2016/02/18	NC		%	30
			22'33'45'66'-OctaCB-(201)	2016/02/18	NC		%	30
			22'33'55'66'-OctaCB-(202)	2016/02/18	NC		%	30
			22'344'55'6-OctaCB-(203)	2016/02/18	NC		%	30
			22'344'566'-OctaCB-(204)	2016/02/18	NC		%	30
			233'44'55'6-OctaCB-(205)	2016/02/18	NC		%	30
			22'33'44'55'6-NonaCB-(206)	2016/02/18	NC		%	30
			22'33'44'566'-NonaCB-(207)	2016/02/18	NC		%	30
			22'33'455'66'-NonaCB-(208)	2016/02/18	NC		%	30
			DecaCB-(209)	2016/02/18	NC		%	30
			Total PCB	2016/02/18	1.4		%	N/A

N/A = Not Applicable
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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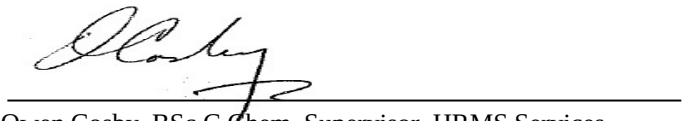
Validation Signature Page

Maxxam Job #: B612062

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Owen Cosby, BSc.C.Chem, Supervisor, HRMS Services

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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3.0 Sample Custody

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1-800-668-0639
www.maxxamanalytics.com

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 01/13/16

AIR ANALYTICAL RESOURCES INCORPORATED

ARI Project: ATS0

Laboratory: MAXXAM c/o Fedex Depot
Lab Contact: MELISSA DI GRAZIA
Lab Address: 299 CAYUGA RD.
CHEEKTOWAGA, NY 14225
Phone: 905-817-5784
Fax:

ARI Client: Anchor QEA, LLC
Project ID: Port Gamble Clean-Up
ARI PM: Cheronne Oreiro
Phone: 206-695-6214
Fax: 206-695-6201
Email: subdata@arilabs.com

Analytical Protocol: In-house
Special Instructions:

Requested Turn Around:
Email Results (Y/N):

Limits of Liability. *Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or sucessors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.*

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
16-135-ATS0A	PG-SMA2-2-MUS-COC-16010	01/04/16 14:00	Tissue	1	PCB CONBENERS
Special Instructions: None					
16-136-ATS0B	PG-PJ-1-MUS-COC-160104	01/04/16 09:00	Tissue	1	PCB CONGENERS
Special Instructions: None					
16-137-ATS0C	PG-WS-1-MUS-COC-160104	01/04/16 11:45	Tissue	1	PCB CONGENERS
Special Instructions: None					
16-138-ATS0D	PG-GP-1-MUS-COC-160104	01/04/16 10:10	Tissue	1	PCB CONGENERS
Special Instructions: None					
16-139-ATS0E	PG-SMA2-5-MUS-COC-16010	01/04/16 16:00	Tissue	1	PCB CONGENERS
Special Instructions: None					
16-140-ATS0F	PG-SMA2-4-MUS-COC-16010	01/05/16 09:40	Tissue	1	PCB CONGENERS
Special Instructions: None					

20-Jan-16 14:25
Hongmei Zhao (Grace)
B612062
RGN FZ-46

- hold for pick-up @ Fedex
- send all data to Anchor QEA

Carrier Fed-Ex		Airbill 0201 7754 2031 9029	Date 1/14/2016
Relinquished by	Company ARI	Date 1/14/16	Time 1248
Received by MARK HEALY	Company	Date 2016/01/20	Time 14:25

Subcontractor Custody Form - **ATS0** 5.3/5.2/5.4
Page 1 of 1

Method 1668, Revision A: Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Tissue and Air by HRGC/HRMS

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

4.0 Initial Calibration Data

Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
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M2160211A - PCB

File Name	File Text	Sample ID	Job	Wt/Vol
~~M2160211AS001~~	~~CS1_PCB 150417CXU~~	---		
M2160211AS002	CS1_PCB 150417CXU	---	---	1.000000
M2160211AS003	CS2_PCB 150417CXU	---	---	1.000000
M2160211AS004	CS3_PCB 150417CXU	---	---	1.000000
M2160211AS005	CS4_PCB 150417CXU	---	---	1.000000
M2160211AS006	CS5_PCB 150417CXU	---	---	1.000000
M2160211AS007	SOLVENT	---	---	1.000000
M2160211AS008	CIL CS3 PCB PR-22535L	---	---	1.000000
M2160211AS009	209MIX_PCB 150822CXU	---	---	1.000000
M2160211AS010	SOLVENT	---	---	1.000000
M2160211AS011	BUH942-01R	MAXXAM XAD GLASS PROOF	---	1.000000
M2160211AS012	BUH943-01R	MAXXAM XAD RESIN PROOF	---	1.000000
M2160211AS013	CS3_PCB 150417CXU	---	---	1.000000

6 pts. Calibration

EPA 1668 Initial Calibration

INSTRUMENT: Ultima 2

CALIBRATION DATE: 2016/02/11

	M2160211AS002 CS1	M2160211AS003 CS2	M2160211AS004 CS3	M2160211AS005 CS4	M2160211AS006 CS5			
	Relative Response Factors					Mean RRF	RRF SD	%RSD
Natives								
PCB 1	1.018	1.032	1.117	1.113	1.129	1.081845	0.053	4.9%
PCB 3	1.004	1.040	1.131	1.103	1.115	1.078646	0.054	5.0%
PCB 4	0.882	0.885	0.996	1.021	0.985	0.953944	0.066	6.9%
PCB 15	0.827	0.825	0.896	0.889	0.915	0.870529	0.042	4.8%
PCB 19	0.793	0.823	0.942	0.984	0.951	0.898659	0.085	9.5%
PCB 37	0.874	0.856	0.936	0.939	0.923	0.905510	0.038	4.2%
PCB 54	0.820	0.863	0.956	0.970	0.944	0.910564	0.066	7.2%
PCB 81	0.999	0.965	1.058	1.071	1.042	1.026963	0.044	4.3%
PCB 77	1.119	1.003	1.094	1.100	1.071	1.077246	0.045	4.2%
PCB 104	1.029	1.018	1.145	1.164	1.115	1.094350	0.067	6.1%
PCB 123	0.876	0.831	0.911	0.928	0.927	0.894465	0.041	4.6%
PCB 118	0.930	0.936	1.007	1.015	1.019	0.981486	0.044	4.5%
PCB 114	0.996	0.954	1.025	1.042	1.034	1.010266	0.036	3.6%
PCB 105	0.946	0.915	0.995	1.011	1.014	0.976519	0.044	4.5%
PCB 126	0.975	0.931	0.979	0.992	1.005	0.976612	0.028	2.9%
PCB 155	0.950	0.902	1.026	1.067	1.038	0.996585	0.068	6.8%
PCB 167	0.928	0.886	0.963	0.972	0.981	0.945863	0.039	4.2%
PCB 156/157	0.999	0.954	1.042	1.053	1.037	1.017075	0.041	4.0%
PCB 169	0.959	0.906	0.952	0.980	0.975	0.954435	0.029	3.1%
PCB 188	0.958	0.925	1.034	1.071	1.072	1.011922	0.067	6.6%
PCB 180	1.101	1.036	1.159	1.194	1.205	1.138864	0.070	6.2%
PCB 170	1.291	1.176	1.262	1.306	1.320	1.270956	0.057	4.5%
PCB 189	0.982	0.886	0.937	0.963	0.951	0.943745	0.036	3.9%
PCB 202	0.913	0.895	1.011	1.059	1.060	0.987571	0.079	8.0%
PCB 205	1.177	1.015	1.063	1.097	1.101	1.090566	0.059	5.4%
PCB 208	1.025	0.925	1.018	1.077	1.072	1.023460	0.061	6.0%
PCB 206	1.075	0.940	0.995	1.053	1.070	1.026603	0.058	5.7%
PCB 209	1.136	0.959	0.996	1.053	1.056	1.039866	0.067	6.4%
Internal Standard								
PCB 1L	0.840	0.846	0.813	0.770	0.849	0.823788	0.033	4.0%
PCB 3L	0.840	0.849	0.808	0.844	0.920	0.852361	0.041	4.8%
PCB 4L	0.558	0.557	0.534	0.512	0.551	0.542629	0.019	3.6%
PCB 15L	1.029	1.051	1.090	1.012	1.190	1.074338	0.071	6.6%
PCB 19L	0.591	0.602	0.578	0.554	0.566	0.578235	0.019	3.3%
PCB 37L	1.924	1.939	1.944	2.057	2.068	1.986544	0.070	3.5%
PCB 54L	1.356	1.322	1.314	1.174	1.320	1.297306	0.071	5.5%
PCB 81L	1.665	1.666	1.721	1.796	1.842	1.737865	0.079	4.5%
PCB 77L	1.587	1.612	1.638	1.746	1.803	1.677054	0.093	5.5%
PCB 104L	1.163	1.156	1.110	1.124	1.225	1.155653	0.045	3.9%
PCB 123L	1.887	1.930	1.905	2.000	1.957	1.935836	0.045	2.3%
PCB 118L	1.849	1.862	1.837	1.972	2.008	1.905777	0.078	4.1%
PCB 114L	1.678	1.727	1.716	1.835	1.908	1.772818	0.095	5.4%
PCB 105L	1.734	1.775	1.745	1.893	1.964	1.822389	0.101	5.6%
PCB 126L	1.635	1.666	1.649	1.792	1.935	1.735467	0.128	7.4%
PCB 155L	1.440	1.364	1.361	1.336	1.516	1.403516	0.074	5.3%
PCB 167L	2.083	1.993	2.034	2.132	2.307	2.109839	0.122	5.8%
PCB 156L/157L	1.859	1.803	1.846	1.919	2.177	1.920899	0.149	7.8%
PCB 169L	1.817	1.764	1.800	1.909	2.141	1.886246	0.152	8.1%
PCB 188L	1.329	1.302	1.300	1.302	1.414	1.329380	0.049	3.7%
PCB 180L	1.325	1.315	1.317	1.354	1.431	1.348551	0.049	3.6%
PCB 170L	1.140	1.124	1.166	1.189	1.283	1.180125	0.062	5.3%
PCB 189L	2.165	2.062	2.107	2.150	2.302	2.157271	0.090	4.2%
PCB 202L	1.429	1.390	1.400	1.411	1.467	1.419435	0.030	2.1%
PCB 205L	1.493	1.469	1.491	1.514	1.689	1.531299	0.090	5.9%
PCB 208L	1.124	1.101	1.130	1.137	1.205	1.139420	0.039	3.4%
PCB 206L	0.735	0.720	0.740	0.755	0.848	0.759545	0.051	6.7%
PCB 209L	0.703	0.690	0.695	0.709	0.824	0.724318	0.056	7.8%
Cleanup Standard								
PCB 28L	1.704	2.268	2.002	2.251	1.971	2.039286	0.232	11.4%
PCB 111L	1.103	1.408	1.378	1.404	1.422	1.343035	0.135	10.1%
PCB 178L	0.629	0.767	0.766	0.741	0.761	0.732920	0.059	8.0%
Field Spike								
PCB 31L	1.905	1.943	1.831	2.167	1.826	1.934331	0.139	7.2%
PCB 95L	0.971	0.961	0.936	0.926	0.938	0.946176	0.019	2.0%
PCB 153L	1.269	1.220	1.211	1.209	1.217	1.226125	0.025	2.0%

16.02.16

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:07:11 AM Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\EPA 1668 5PT-20160211A.mdb 16 Feb 2016 08:03:01
Calibration: 16 Feb 2016 08:03:15

ID:
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE
Description: CS1_PCB 150417CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
1 PCB 1	8.99	1.001	11317	3442	3.29	YES	bb	0.941	-5.9	94	29	1.018
2 PCB 3	10.19	1.001	11134	3432	3.24	YES	bd	0.931	-6.9	93	30	1.004
3 PCB 4	10.30	1.001	5083	3413	1.49	YES	bb	0.924	-7.6	92	31	0.882
4 PCB 15	12.93	1.000	9020	5686	1.59	YES	bb	0.950	-5.0	95	32	0.827
5 PCB 19	11.68	1.002	4176	3908	1.07	YES	bb	0.882	-11.8	88	33	0.793
6 PCB 37	16.70	1.001	7699	7512	1.02	YES	bb	0.965	-3.5	96	34	0.874
7 PCB 54	13.06	1.000	4395	5660	0.78	YES	bb	0.900	-10.0	90	35	0.820
8 PCB 81	21.42	1.001	6238	8814	0.71	YES	bb	0.973	-2.7	97	36	0.999
9 PCB 77	21.87	1.001	7020	9043	0.78	YES	bb	1.039	3.9	104	37	1.119
10 PCB 104	15.92	1.001	5960	3619	1.65	YES	bb	0.940	-6.0	94	38	1.029
11 PCB 123	23.51	1.001	8241	4993	1.65	YES	bd	0.979	-2.1	98	39	0.876
12 PCB 118	23.79	1.001	8416	5358	1.57	YES	db	0.948	-5.2	95	40	0.930
13 PCB 114	24.27	1.001	7980	5399	1.48	YES	bb	0.986	-1.4	99	41	0.996
14 PCB 105	24.84	1.001	8075	5073	1.59	YES	bb	0.969	-3.1	97	42	0.946
15 PCB 126	27.71	1.001	7817	4955	1.58	YES	bd	0.999	-0.1	100	43	0.975
16 PCB 155	19.63	1.001	5466	4233	1.29	YES	bb	0.954	-4.6	95	44	0.951
17 PCB 167	29.53	1.001	7639	6052	1.26	YES	bb	0.981	-1.9	98	45	0.928
18 PCB 156/157	30.70	1.001	14646	11687	1.25	YES	bb	1.965	-1.7	98	46	0.999
19 PCB 169	34.10	1.000	6841	5504	1.24	YES	bb	1.005	0.5	100	47	0.959
20 PCB 188	24.22	1.001	4620	4403	1.05	YES	bb	0.947	-5.3	95	48	0.958
21 PCB 193/180	32.13	1.001	4388	4025	1.09	YES	bb	0.967	-3.3	97	49	1.101
22 PCB 170	33.45	1.001	4362	4120	1.06	YES	bb	1.016	1.6	102	50	1.291
23 PCB 189	36.87	1.001	6391	5864	1.09	YES	bb	1.040	4.0	104	51	0.982
24 PCB 202	29.28	1.001	3489	4035	0.87	YES	bb	0.925	-7.5	92	52	0.913
25 PCB 205	39.73	1.001	4831	5300	0.91	YES	bb	1.079	7.9	108	53	1.177
26 PCB 208	36.32	1.001	2980	3660	0.81	YES	bb	1.001	0.1	100	54	1.025
27 PCB 206	41.73	1.000	2083	2474	0.84	YES	bb	1.047	4.7	105	55	1.075
28 PCB 209	43.56	1.000	2505	2100	1.19	YES	bb	1.092	9.2	109	56	1.136
29 PCB 1L	8.98	0.803	1106028	344244	3.21	YES	bb	101.949	1.9	102	63	0.840
30 PCB 3L	10.17	0.910	1103414	346832	3.18	YES	bb	98.529	-1.5	99	63	0.840
31 PCB 4L	10.28	0.920	589325	374089	1.58	YES	bb	102.816	2.8	103	63	0.558
32 PCB 15L	12.93	1.157	1096431	680884	1.61	YES	bb	95.801	-4.2	96	63	1.029
33 PCB 19L	11.66	1.043	521602	498307	1.05	YES	bb	102.142	2.1	102	63	0.591
34 PCB 37L	16.68	1.087	897243	843618	1.06	YES	bb	96.872	-3.1	97	64	1.924
35 PCB 54L	13.06	0.851	537500	689435	0.78	YES	bb	104.547	4.5	105	64	1.356
36 PCB 81L	21.41	1.395	664854	841531	0.79	YES	bb	95.819	-4.2	96	64	1.665
37 PCB 77L	21.85	1.424	632476	802942	0.79	YES	bb	94.616	-5.4	95	64	1.587
38 PCB 104L	15.91	0.805	575093	356026	1.62	YES	bb	100.597	0.6	101	65	1.163
39 PCB 123L	23.49	1.188	928800	582428	1.60	YES	bd	97.470	-2.5	97	65	1.887
40 PCB 118L	23.77	1.203	911984	568998	1.60	YES	db	97.025	-3.0	97	65	1.849
41 PCB 114L	24.26	1.227	827425	516235	1.60	YES	bb	94.631	-5.4	95	65	1.678
42 PCB 105L	24.83	1.256	855998	533121	1.61	YES	bb	95.171	-4.8	95	65	1.734
43 PCB 126L	27.69	1.401	804201	505514	1.59	YES	bb	94.225	-5.8	94	65	1.635
44 PCB 155L	19.61	0.738	572385	448050	1.28	YES	bb	102.621	2.6	103	66	1.440

Acquired Date

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Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
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ID:
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE
Description: CS1_PCB 150417CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
45 PCB 167L	29.50	1.110	828858	647216	1.28	YES	db	98.748	-1.3	99	66	2.083
46 PCB 156L/157L	30.68	1.155	1473726	1160997	1.27	YES	bb	193.597	-3.2	97	66	1.859
47 PCB 169L	34.08	1.283	720610	566651	1.27	YES	bb	96.324	-3.7	96	66	1.817
48 PCB 188L	24.20	0.911	485383	456375	1.06	YES	bb	99.990	-0.0	100	66	1.329
49 PCB 180L	32.09	0.819	396855	367038	1.08	YES	bb	98.247	-1.8	98	67	1.325
50 PCB 170L	33.42	0.853	341641	315434	1.08	YES	bb	96.570	-3.4	97	67	1.140
51 PCB 189L	36.84	0.940	644370	603772	1.07	YES	bb	100.349	0.3	100	67	2.165
52 PCB 202L	29.25	0.746	392059	431651	0.91	YES	bb	100.650	0.7	101	67	1.429
53 PCB 205L	39.71	1.013	414605	446323	0.93	YES	bb	97.513	-2.5	98	67	1.493
54 PCB 208L	36.29	0.926	285279	362821	0.79	YES	bb	98.654	-1.3	99	67	1.124
55 PCB 206L	41.70	1.064	185976	237790	0.78	YES	bb	96.767	-3.2	97	67	0.735
56 PCB 209L	43.54	1.111	220615	184915	1.19	YES	bb	97.107	-2.9	97	67	0.703
57 PCB 28L	14.41	0.939	790383	751516	1.05	YES	db	83.582	-16.4	84	64	1.704
58 PCB 111L	21.83	1.105	547534	335518	1.63	YES	bb	82.093	-17.9	82	65	1.103
59 PCB 178L	26.98	1.015	229836	215920	1.06	YES	bb	85.844	-14.2	86	66	0.629
60 PCB 31L	14.24	0.928	880367	842961	1.04	YES	bd	98.485	-1.5	98	64	1.905
61 PCB 95L	17.74	0.897	477429	299905	1.59	YES	bb	102.575	2.6	103	65	0.971
62 PCB 153L	25.41	0.956	509722	389436	1.31	YES	bb	103.591	3.6	104	66	1.269
63 PCB 9L	11.18	0.000	1064981	661857	1.61	YES	bb	92.069	-7.9	92	0	17268...
64 PCB 52L	15.35	0.000	398989	505634	0.79	YES	bb	91.787	-8.2	92	0	9046....
65 PCB 101L	19.77	0.000	496481	304444	1.63	YES	bb	90.173	-9.8	90	0	8009....
66 PCB 138L	26.57	0.000	401854	306634	1.31	YES	bb	87.765	-12.2	88	0	7084....
67 PCB 194L	39.18	0.000	276425	300136	0.92	YES	bb	88.279	-11.7	88	0	5765....
68 Total MoCB F1								1.872			29	
69 Total MoCB labeled ...								200.478			63	
70 Total DiCB F1								0.924			31	
71 Total DiCB labeled F1								102.816			63	
72 Total DiCB F2								0.950			32	
73 Total DiCB labeled F2								187.871			63	
74 Total TriCB F2								0.882			33	
75 Total TriCB labeled F2								102.142			63	
76 Total TriCB F3								0.965			34	
77 Total TriCB labeled F3								278.938			64	
78 Total TeCB F2								0.900			35	
79 Total TeCB labeled F2								104.547			64	
80 Total TeCB F3											35	
81 Total TeCB labeled F3								91.787			64	
82 Total TeCB F4								2.012			36	
83 Total TeCB labeled F4								190.435			64	
84 Total PeCB F3								0.940			38	
85 Total PeCB labeled F3								100.597			65	
86 Total PeCB F4											39	
87 Total PeCB labeled F4								274.842			65	
88 Total PeCB F5								4.880			39	
89 Total PeCB labeled F5								478.523			65	
90 Total HxCB F4								0.954			44	
91 Total HxCB labeled F4								102.621			66	
92 Total HxCB F5											45	

Acquired Date

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ID:
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE
Description: CS1_PCB 150417CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
93 Total HxCB labeled F5								191.356			66	
94 Total HxCB F6								3.951			45	
95 Total HxCB labeled F6								388.669			66	
96 Total HpCB F5								0.947			48	
97 Total HpCB labeled ...								185.834			67	
98 Total HpCB F6								1.983			49	
99 Total HpCB labeled ...								194.817			67	
100 Total HpCB F7								1.040			51	
101 Total HpCB labeled ...								100.349			67	
102 Total OcCB F6								0.925			52	
103 Total OcCB labeled ...								100.650			67	
104 Total OcCB F7								1.079			53	
105 Total OcCB labeled ...								185.792			67	
106 Total NoCB F7								2.049			54	
107 Total NoCB labeled ...								195.420			67	
108 Total DeCB F7								1.092			56	
109 Total DeCB labeled ...								97.107			67	
110 lockmass F1											0	
111 lockmass F2											0	
112 lockmass F3											0	
113 lockmass F4											0	
114 lockmass F5											0	
115 lockmass F6											0	
116 lockmass F7											0	

Acquired Date

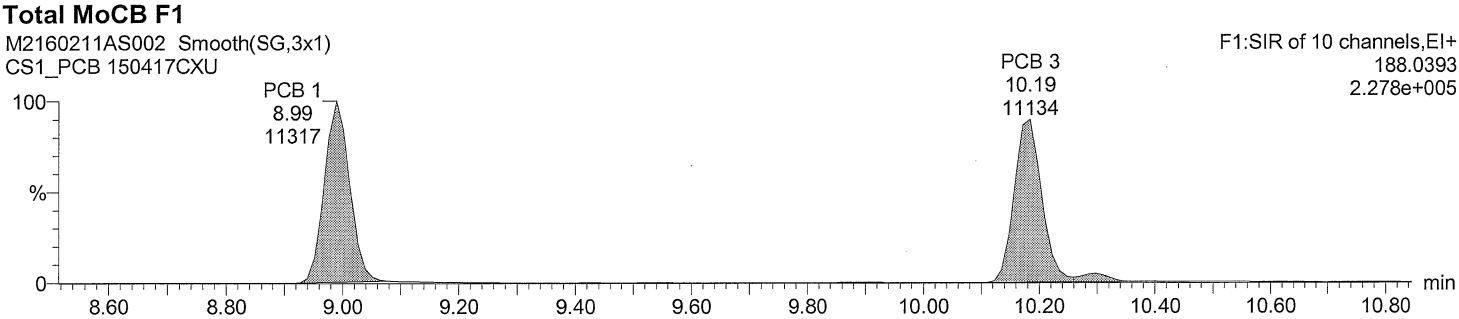
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

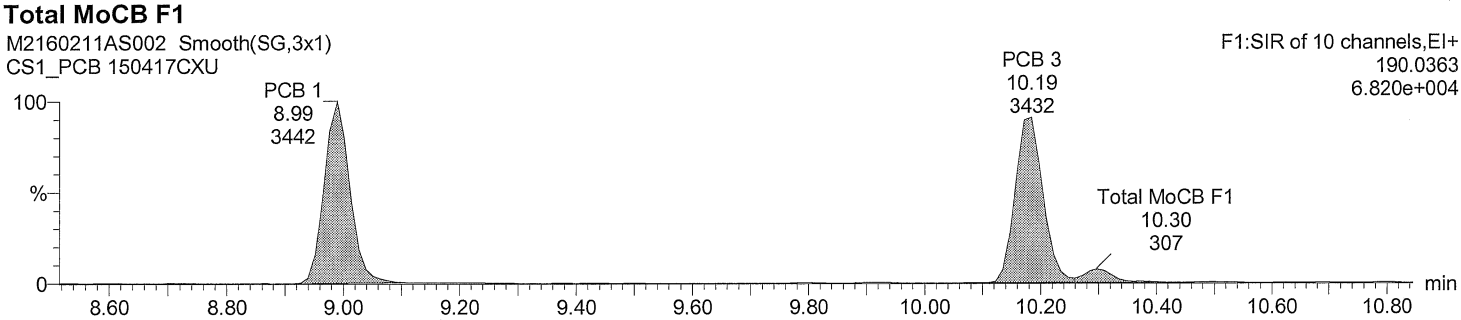
Method: C:\MassLynx\Default.pro\Methdb\EPA 1668 5PT-20160211A.mdb 16 Feb 2016 08:03:01
Calibration: 16 Feb 2016 08:03:15

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total MoCB F1



Total MoCB F1



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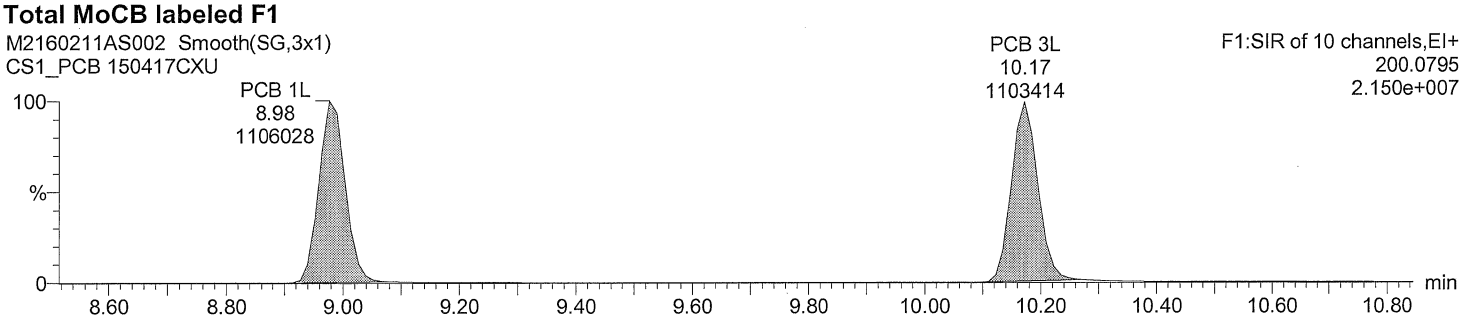
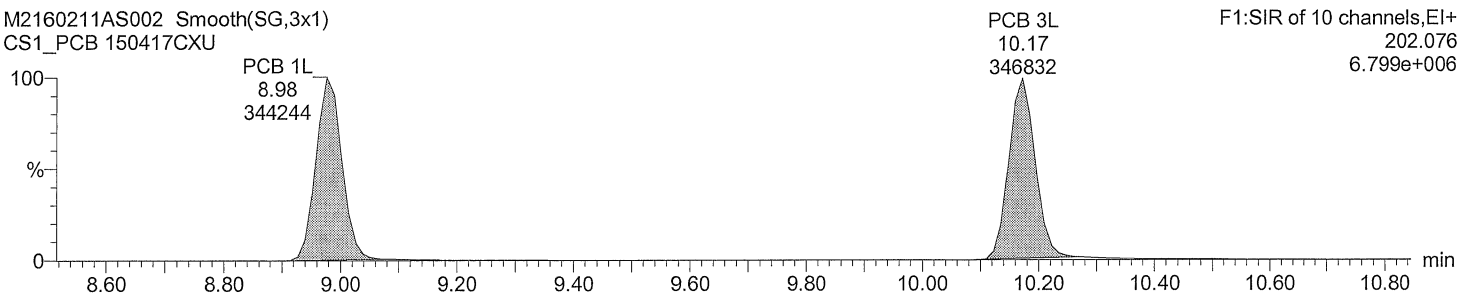


Total MoCB labeled F1



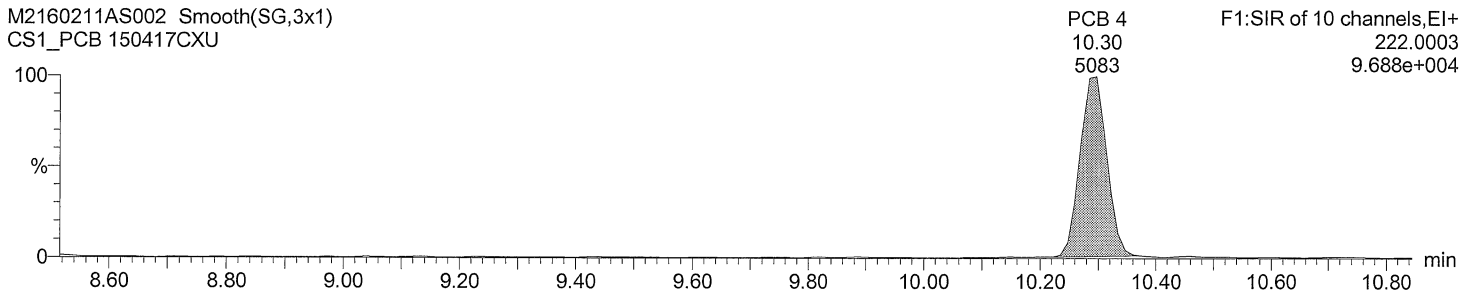
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total DiCB F1



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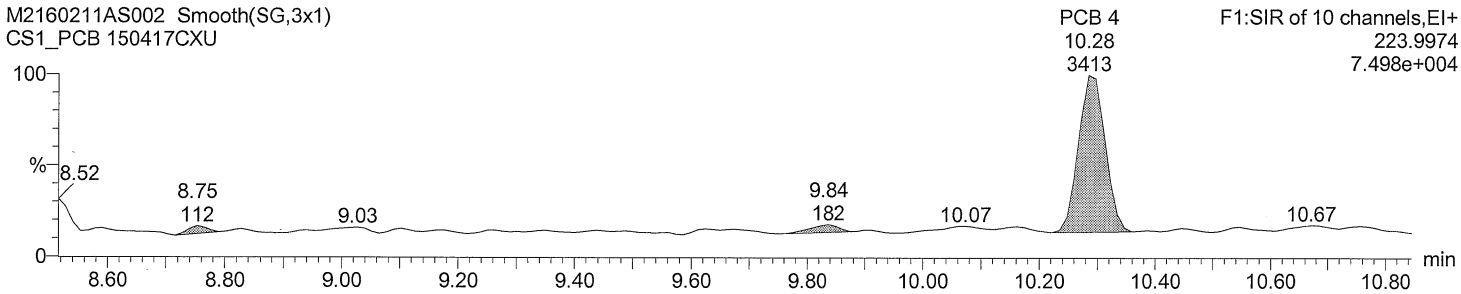

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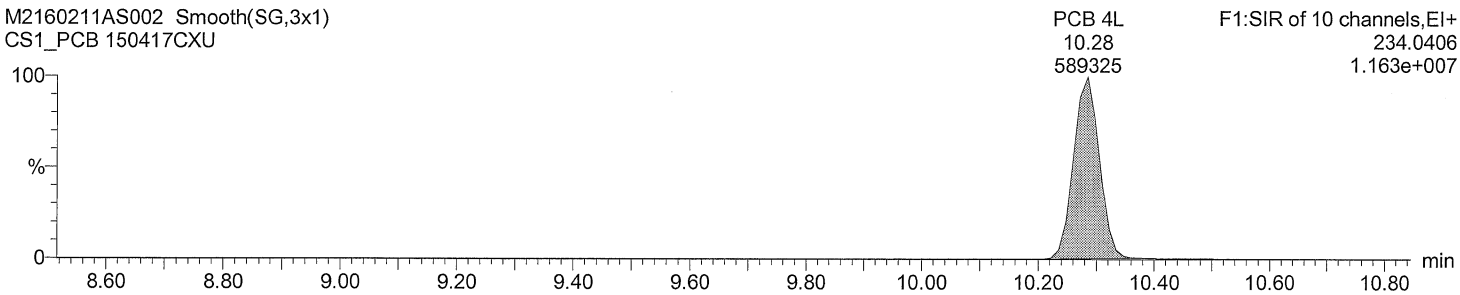

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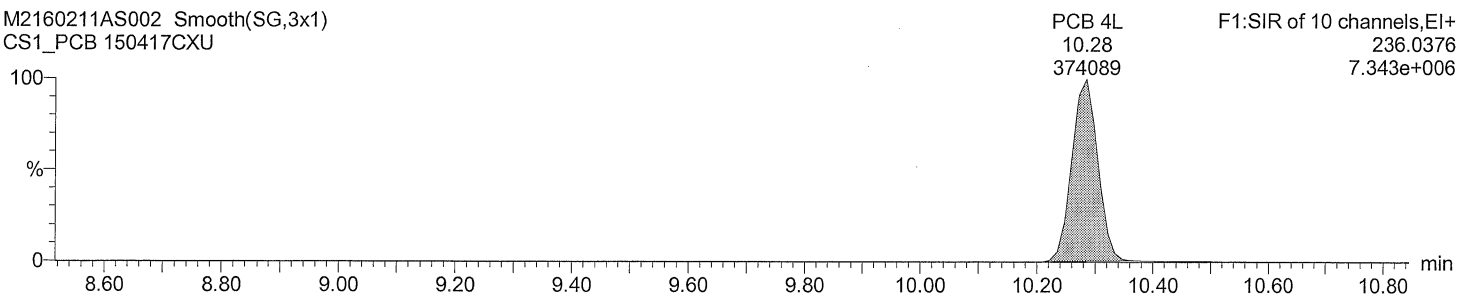


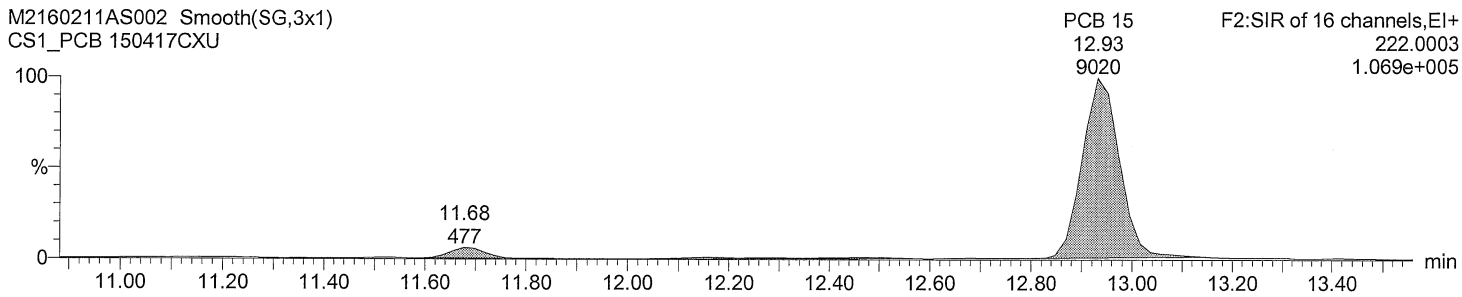
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

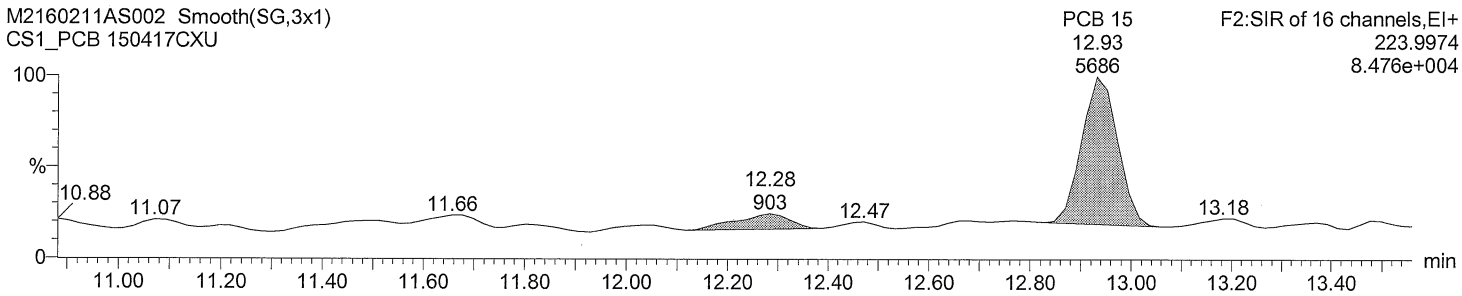
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total DiCB F2



Total DiCB F2



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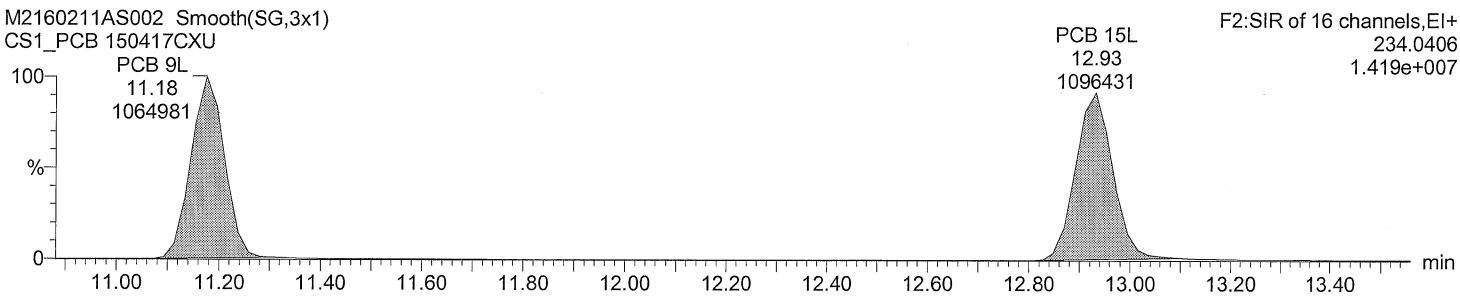

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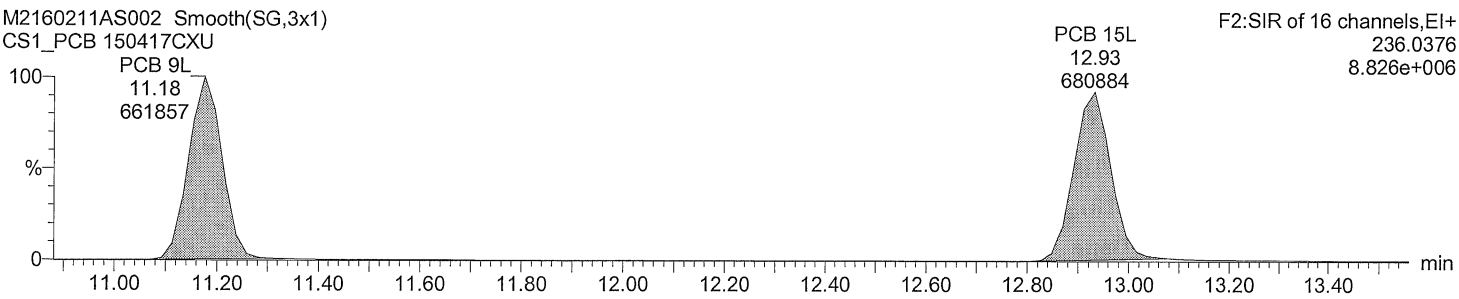


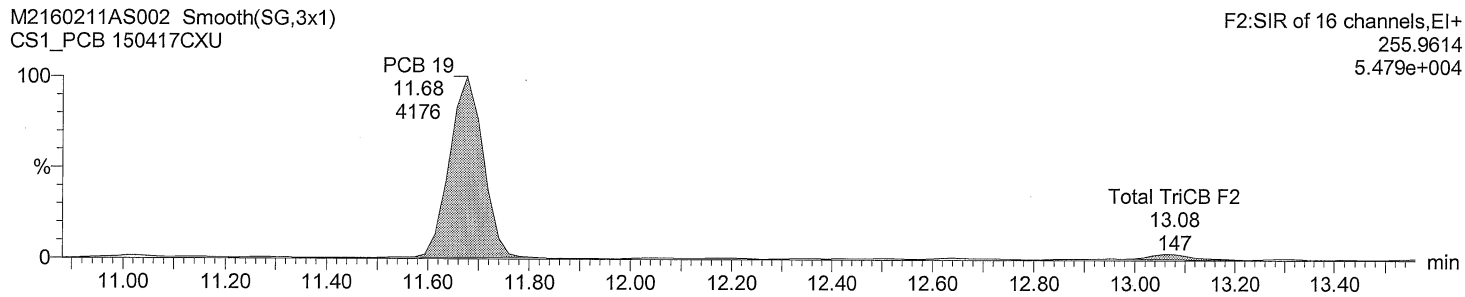
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total TriCB F2



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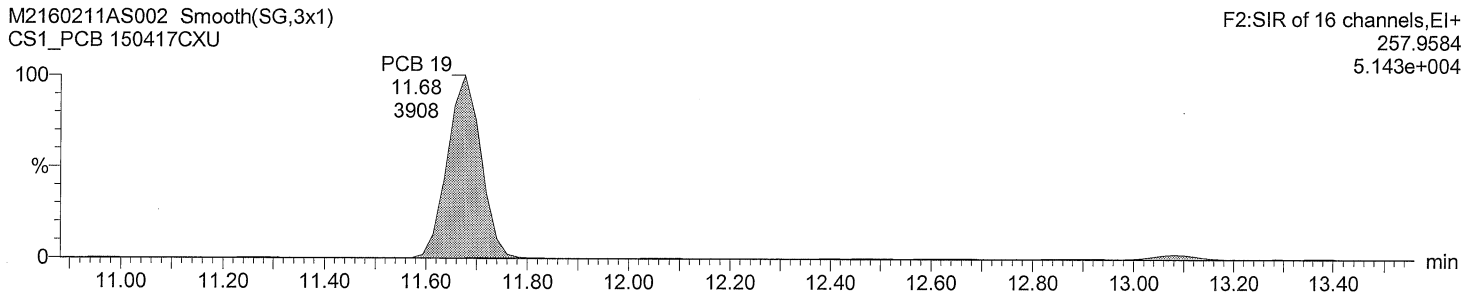

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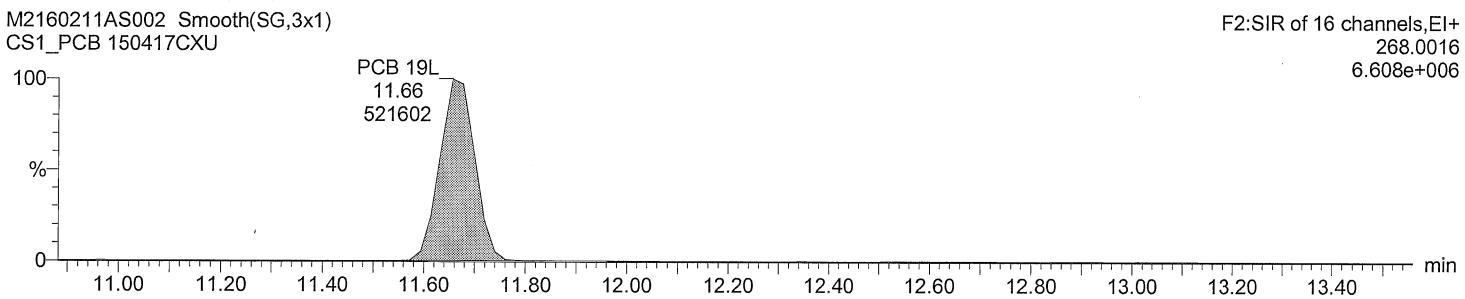

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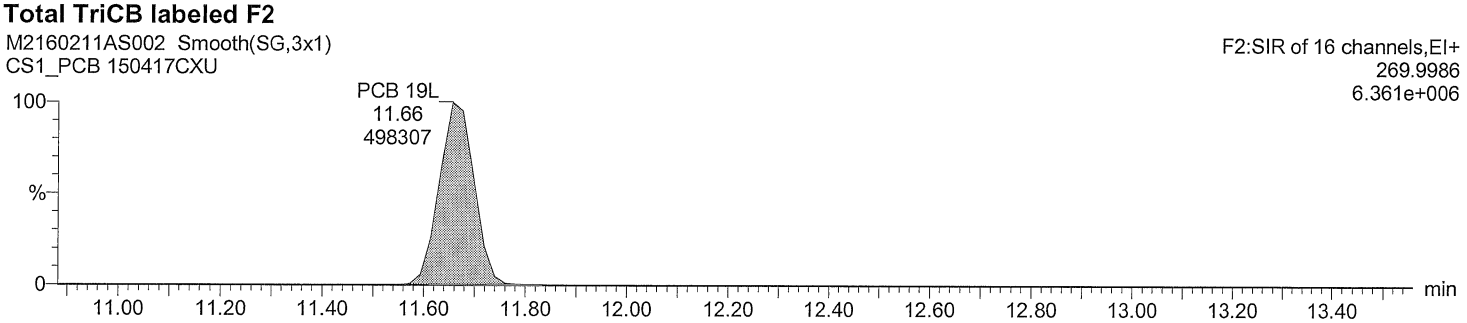


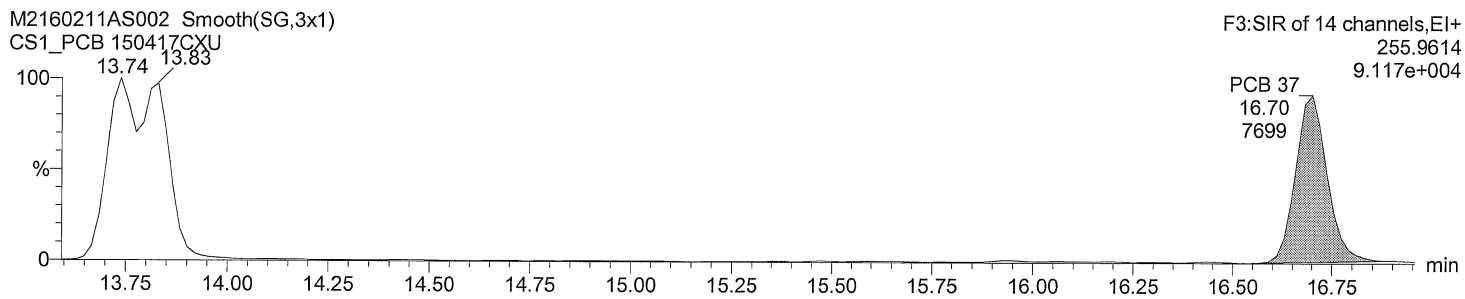
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total TriCB F3



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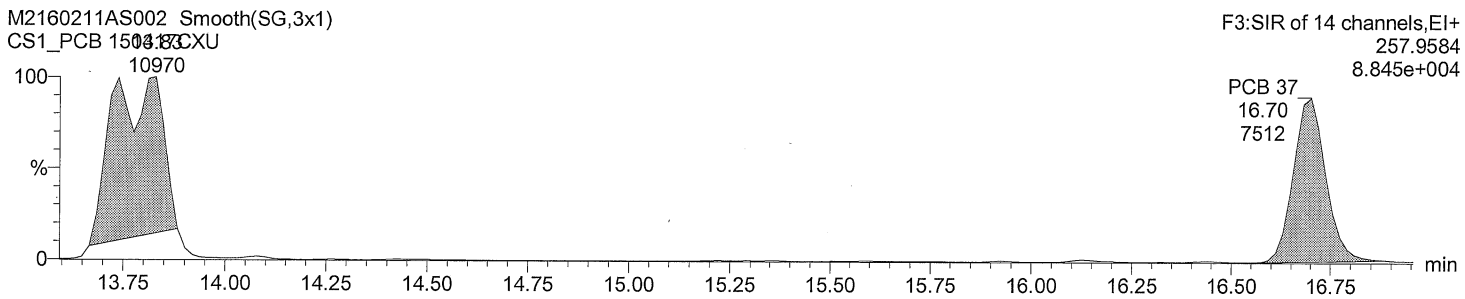

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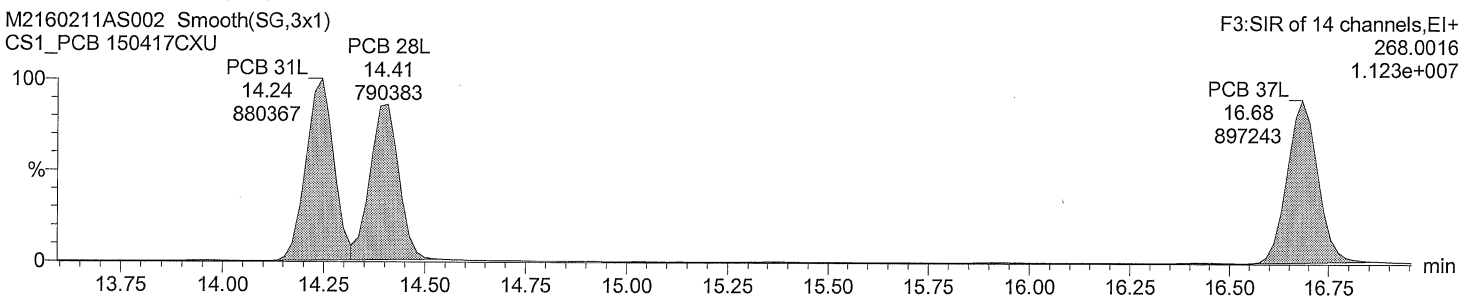

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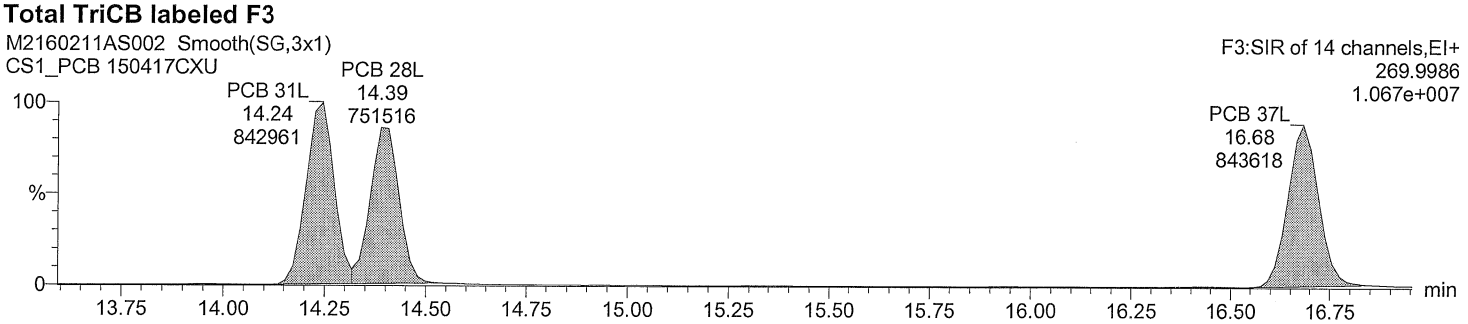

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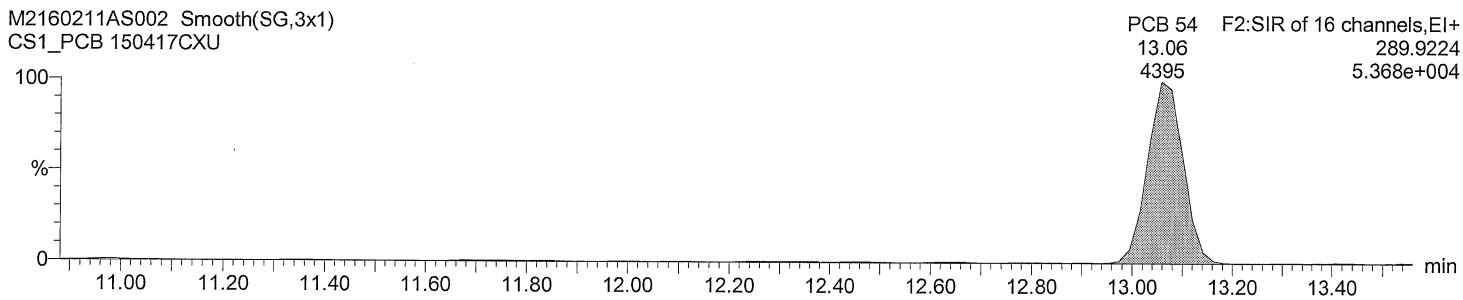
Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total TeCB F2



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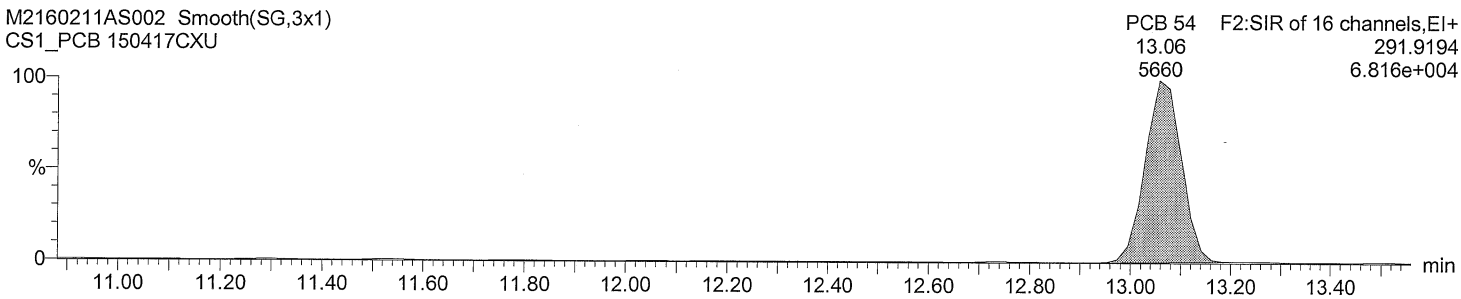

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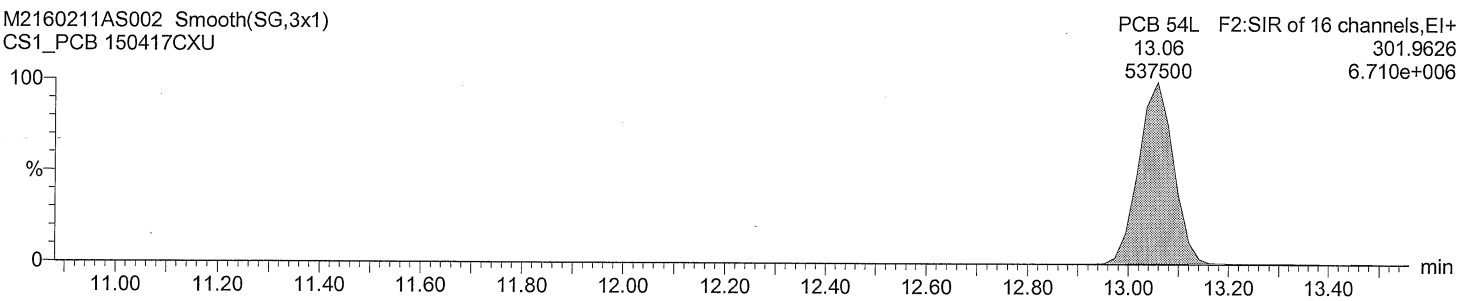

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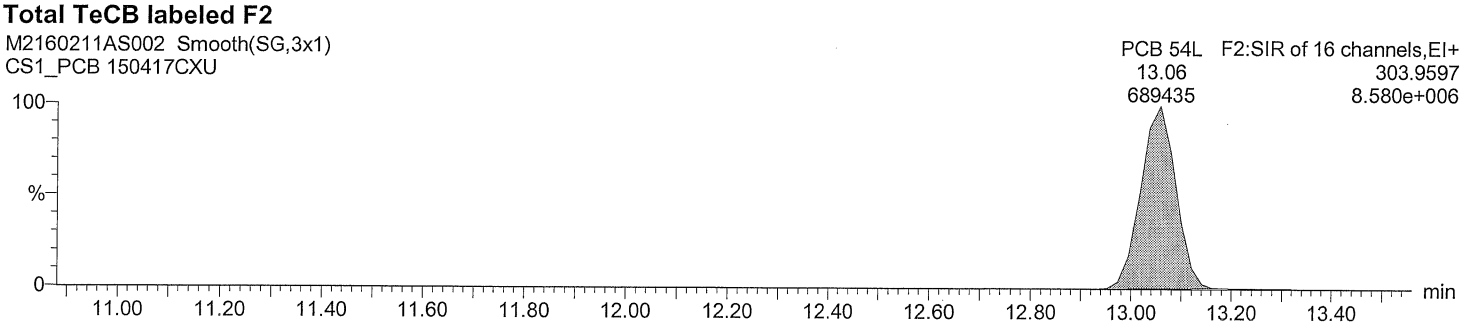

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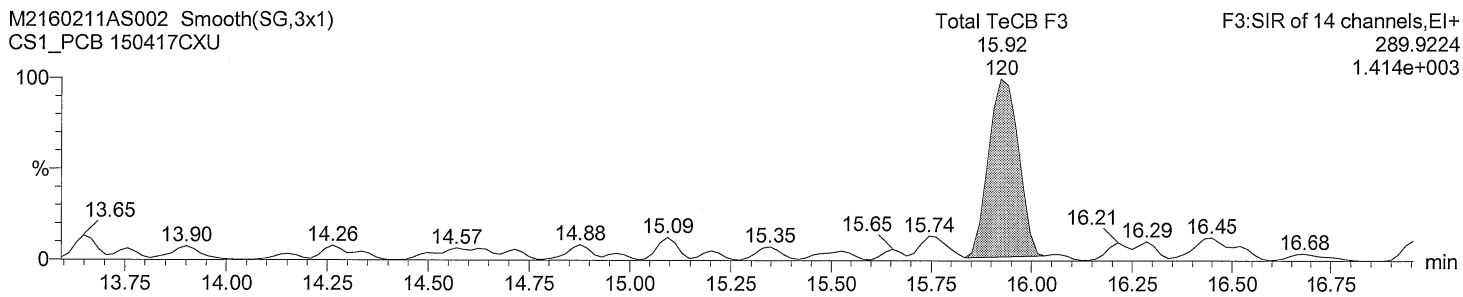
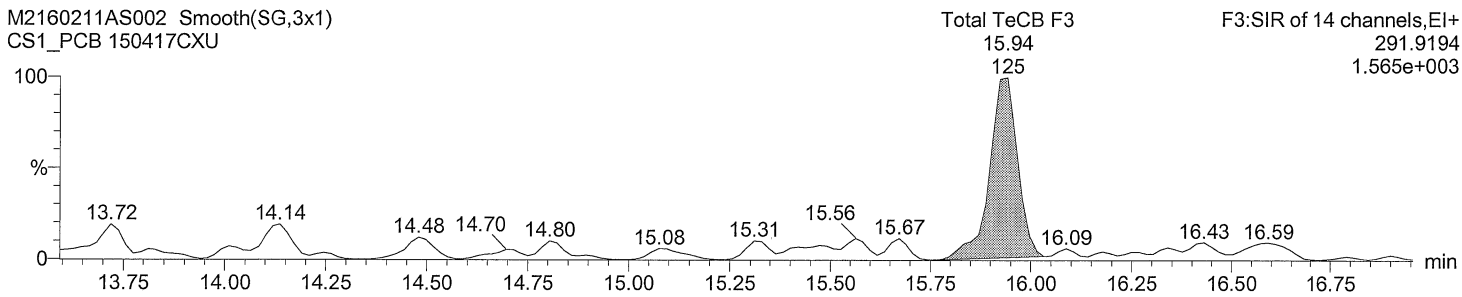
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total TeCB F3



Total TeCB F3



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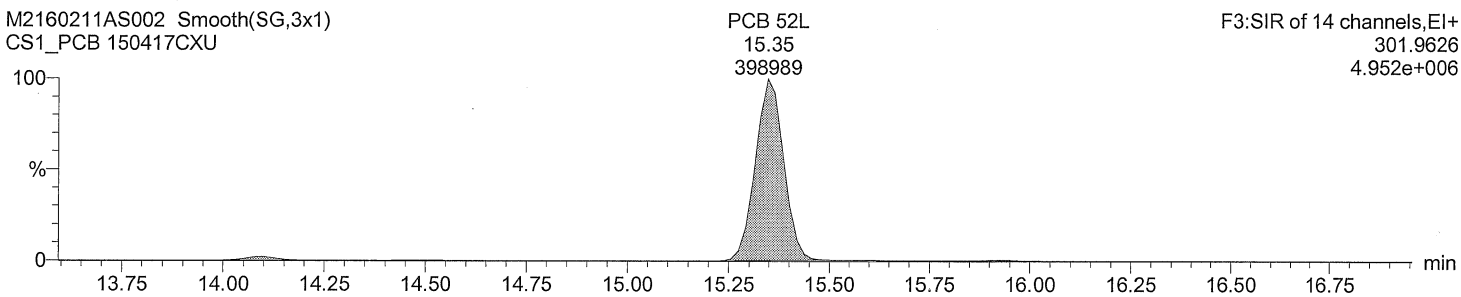

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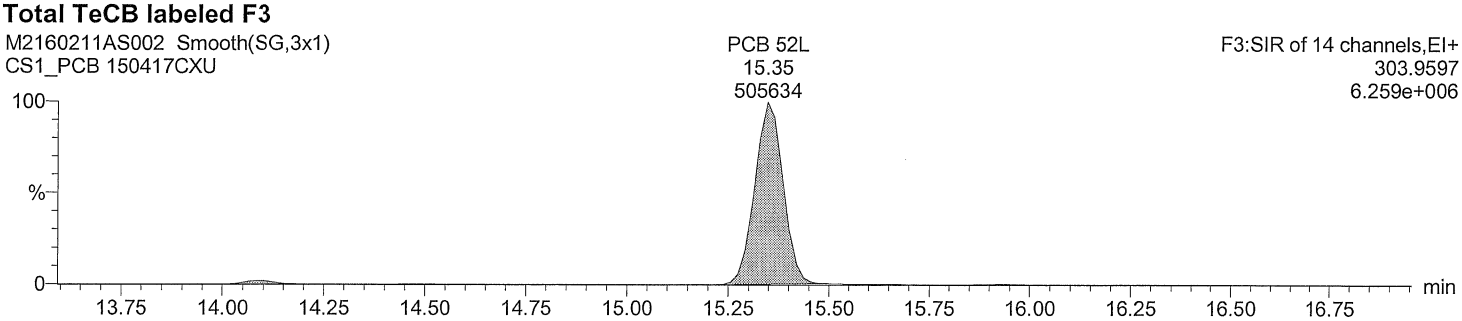

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

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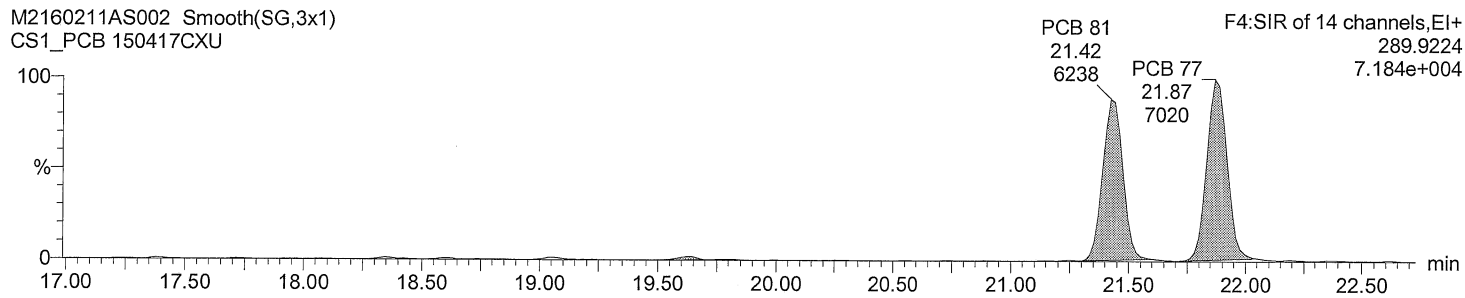
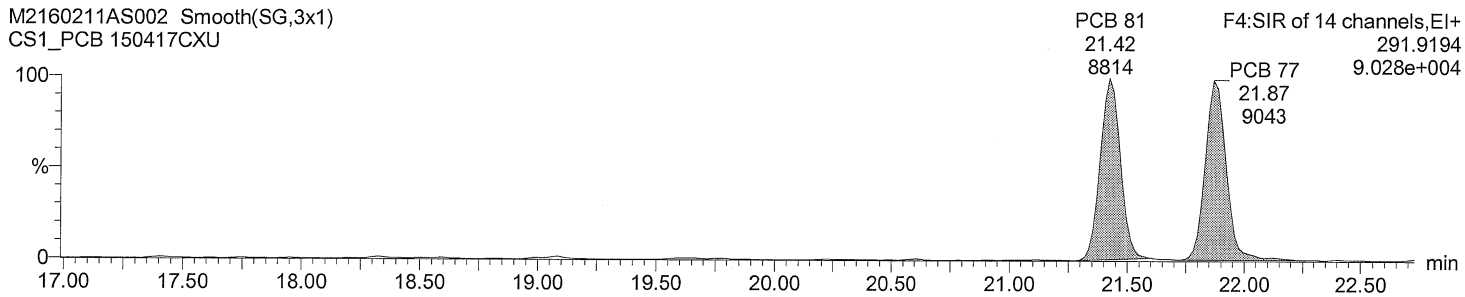
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total TeCB F4



Total TeCB F4



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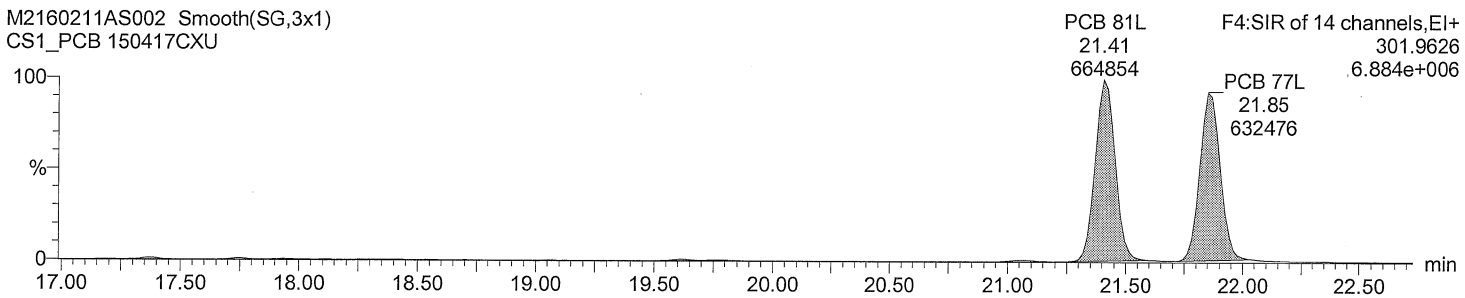

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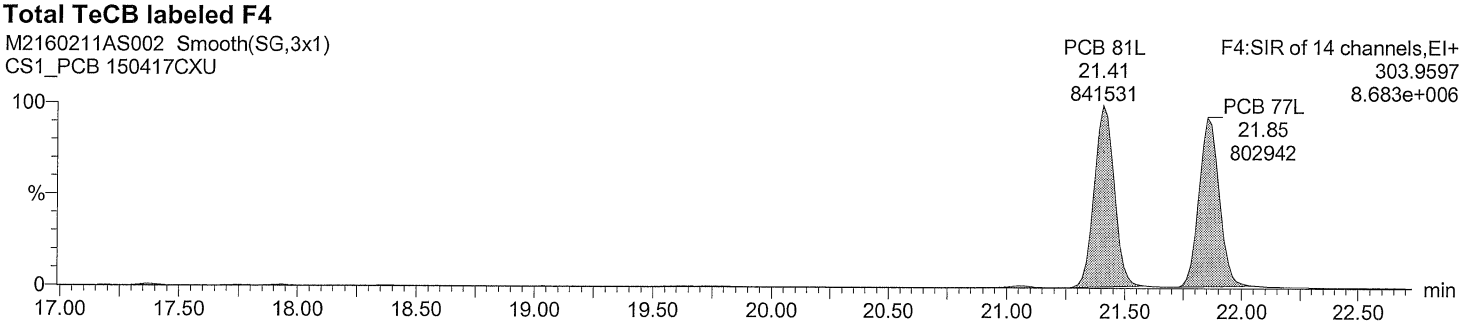
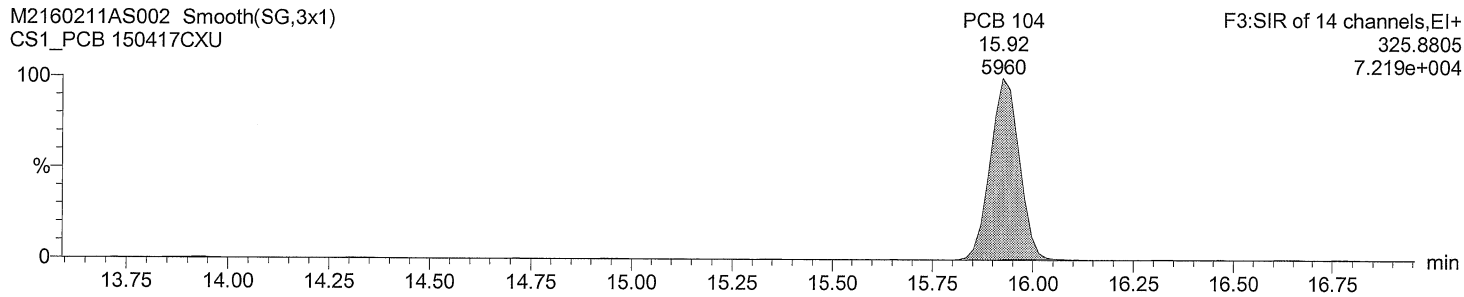


Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total PeCB F3



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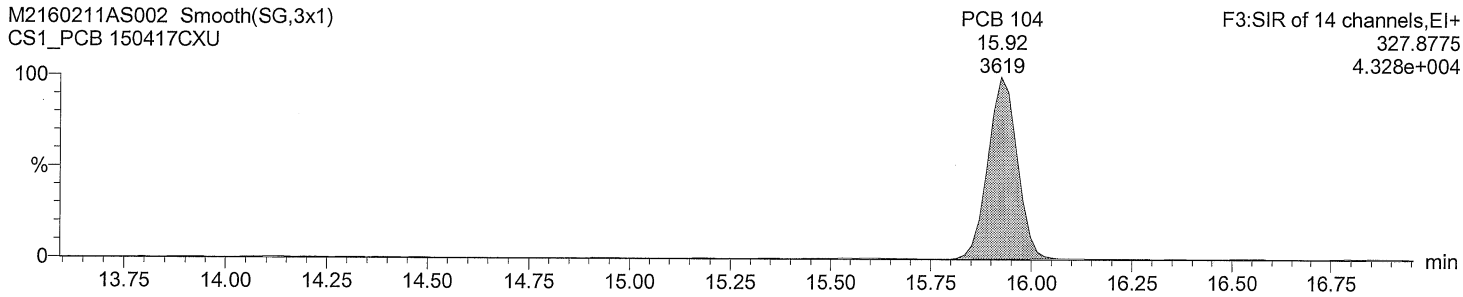

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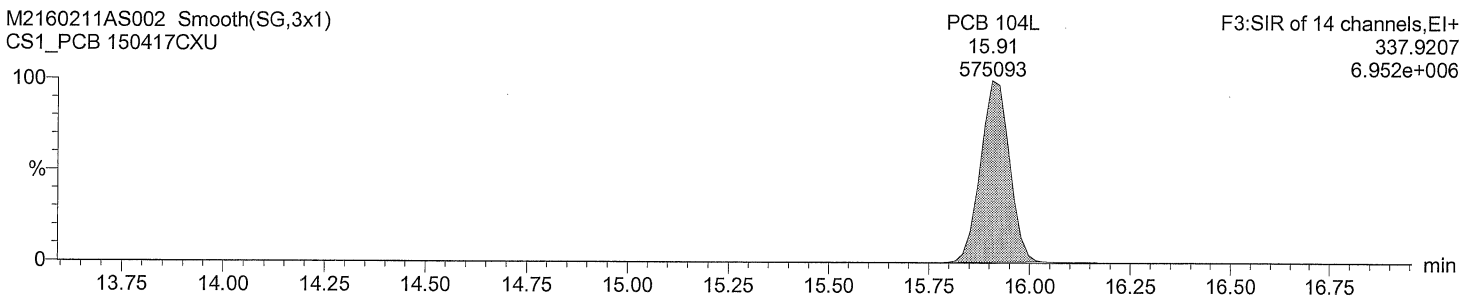

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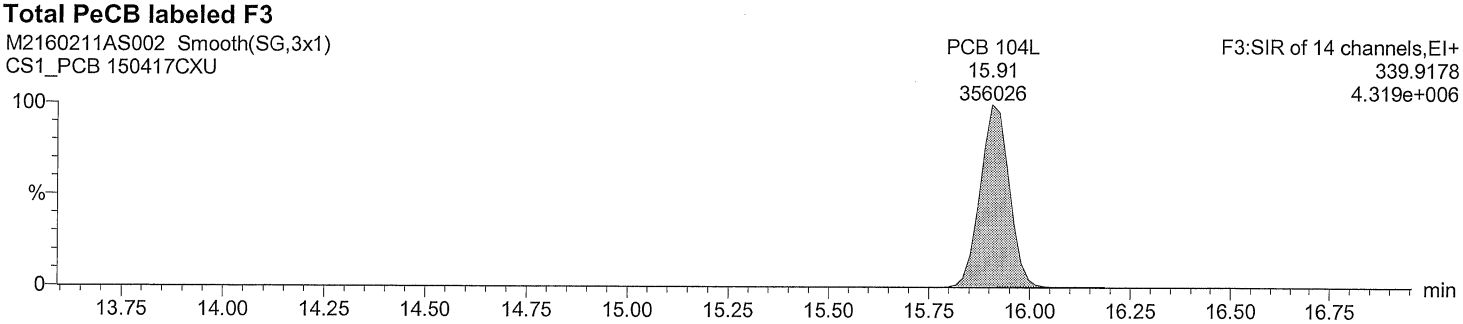


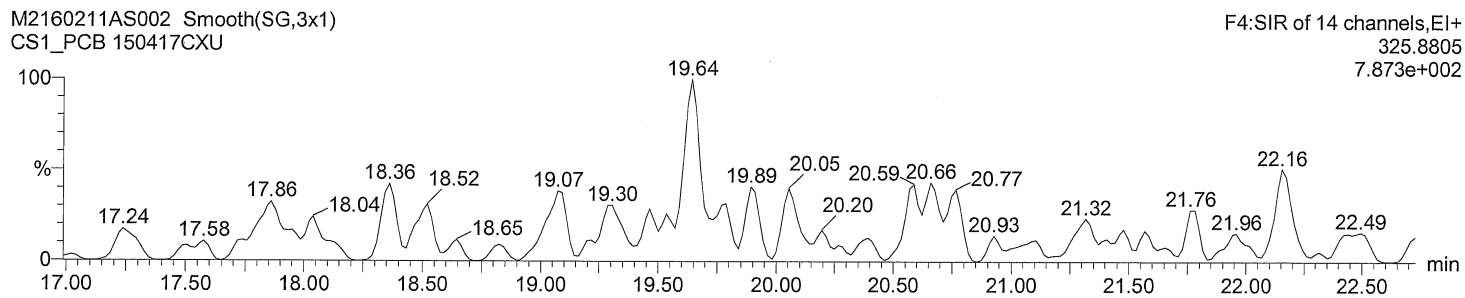
Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

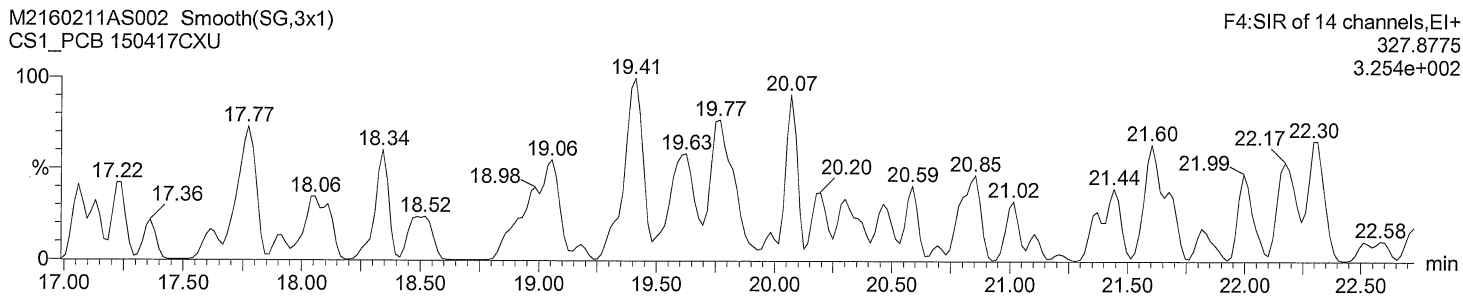
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total PeCB F4



Total PeCB F4



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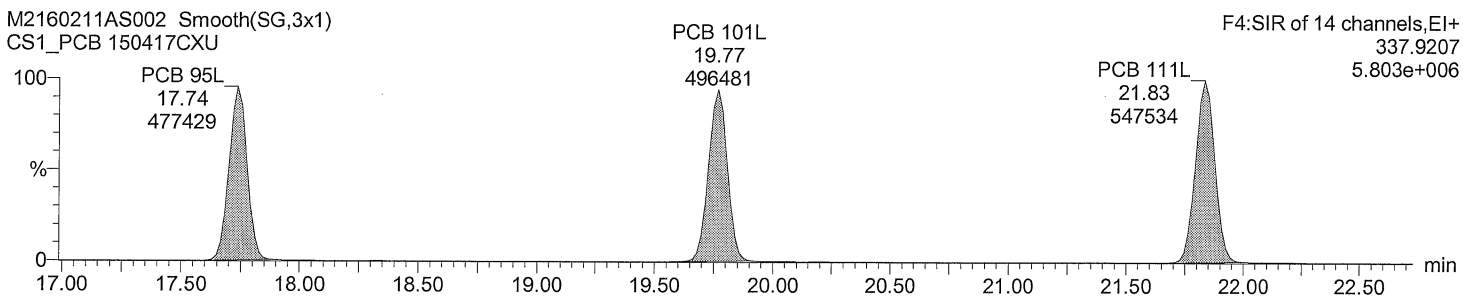

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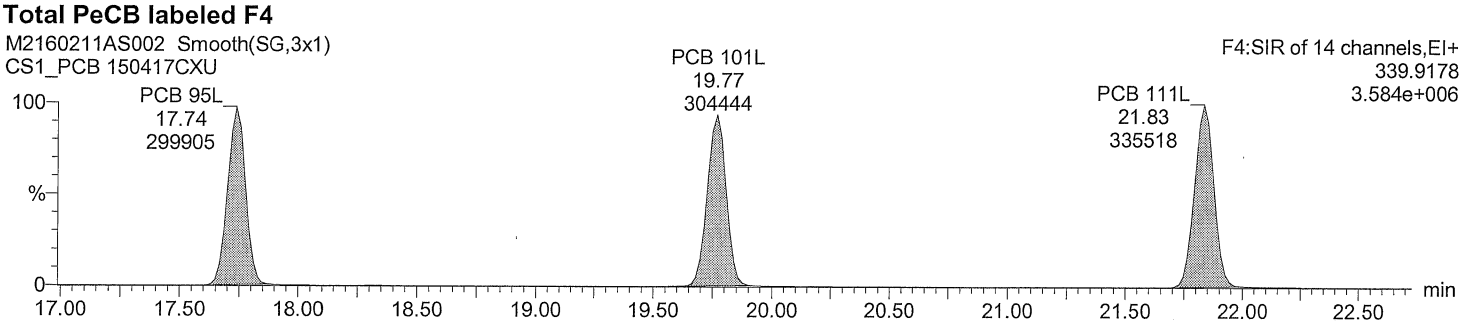

Acquired Date

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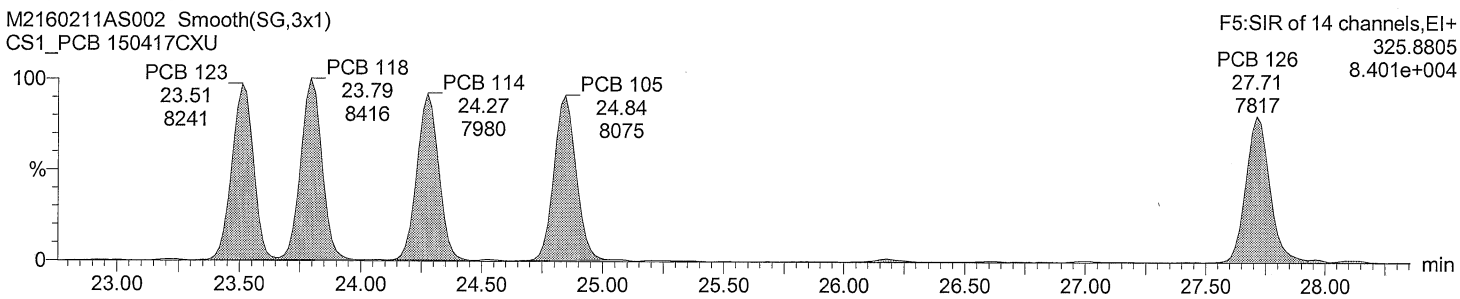
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total PeCB F5



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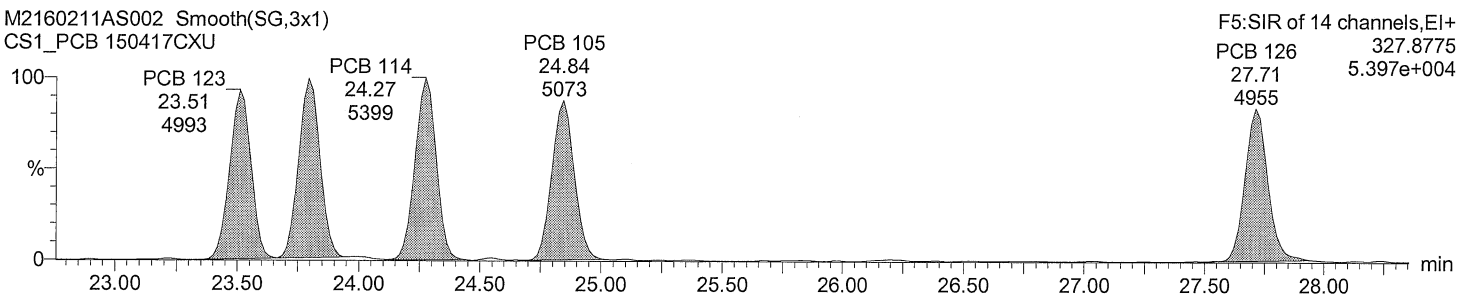

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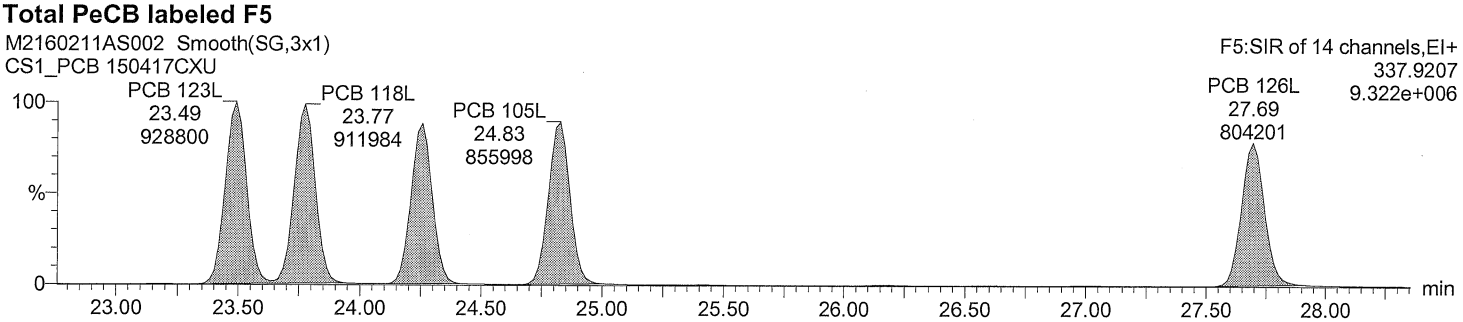

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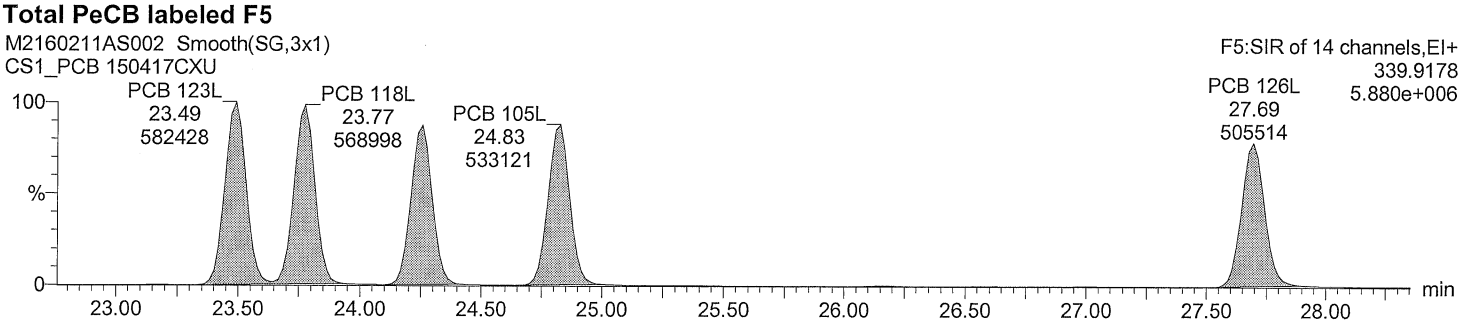
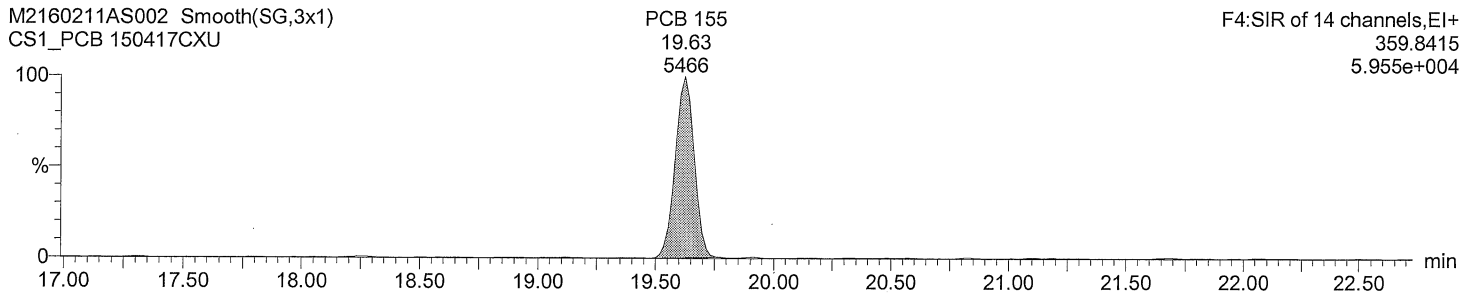


Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

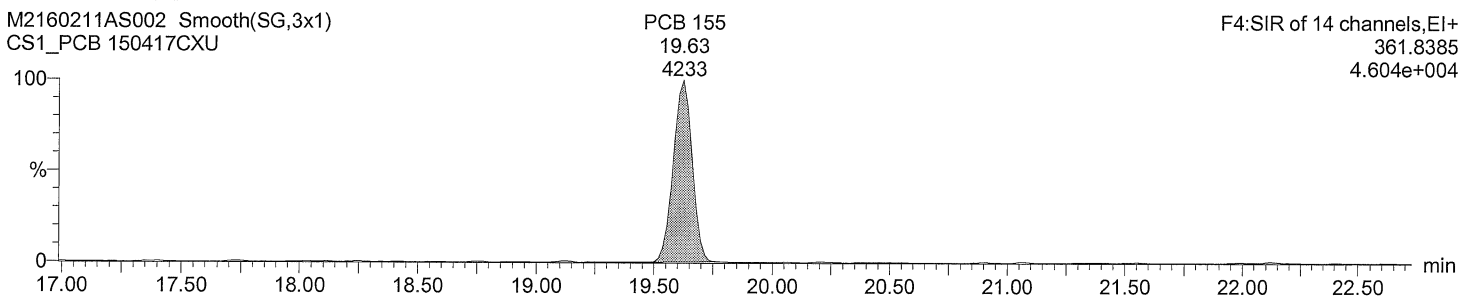
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

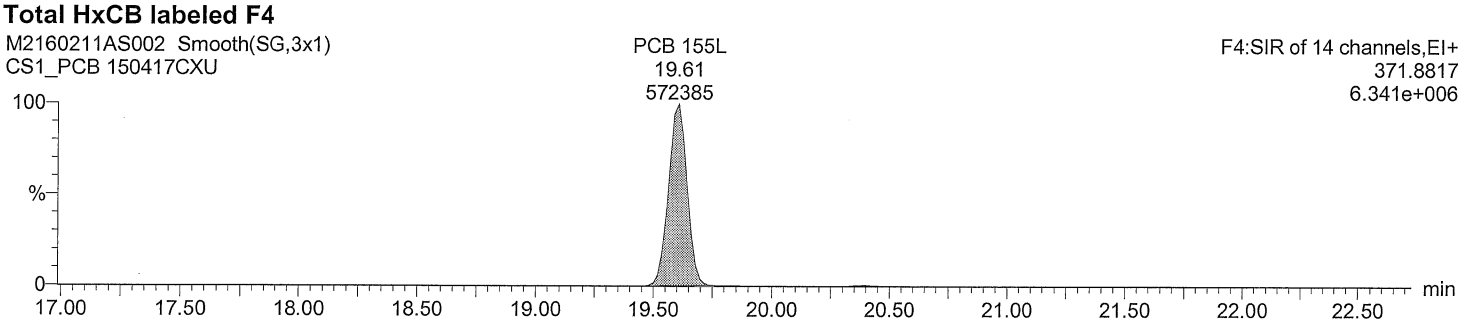
Total HxCB F4



Total HxCB F4



Total HxCB labeled F4



Total HxCB labeled F4