

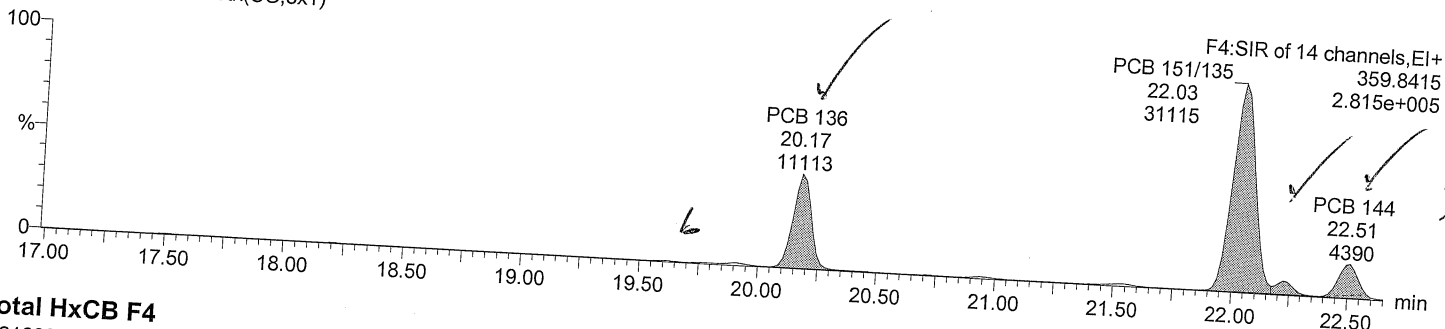
Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 10:27:04 AM Eastern Standard Time
Printed: February 20, 2016 10:30:25 AM Eastern Standard Time

ID: Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti
Description: BRP508-01R
Vial: 7
Date: 18-FEB-2016
Time: 23:28:36

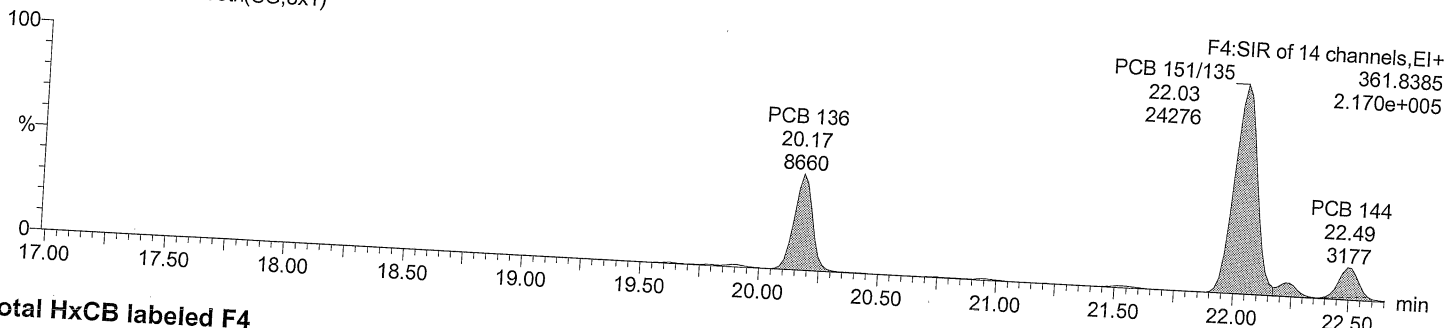
Total HxCB F4

M2160218DS007 Smooth(SG,3x1)



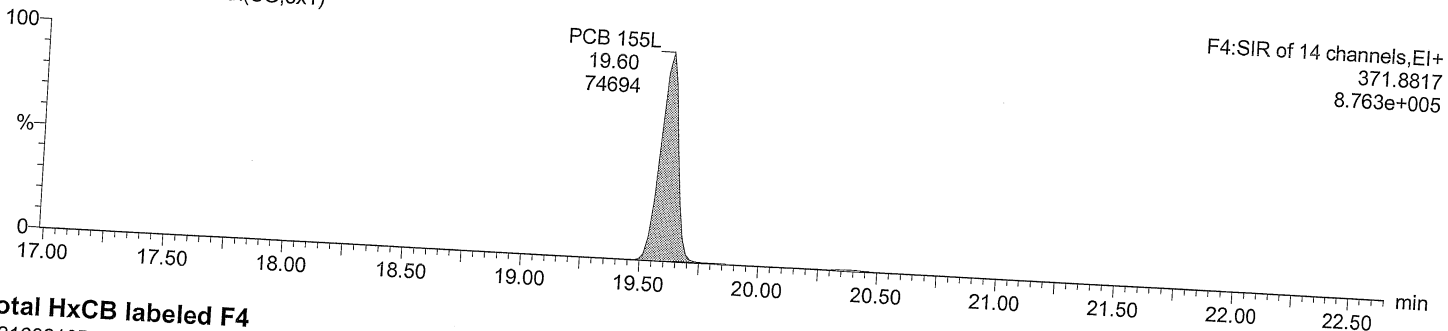
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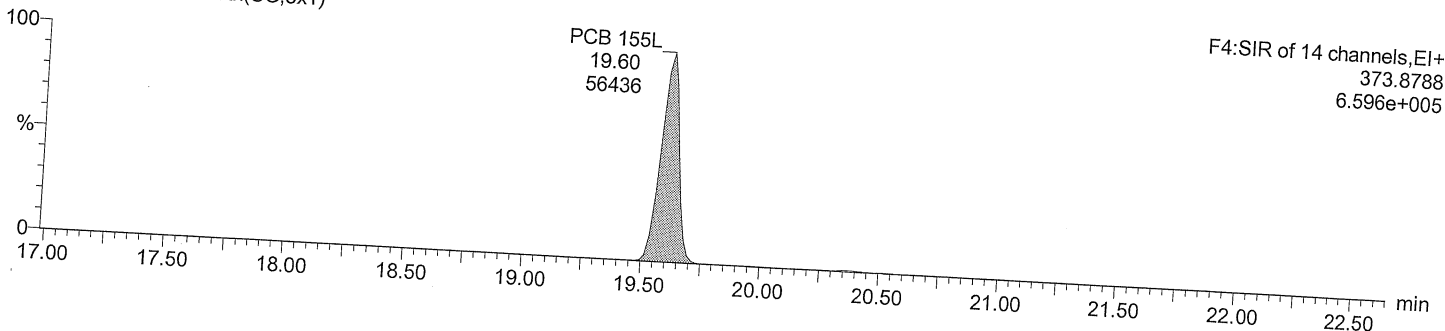
Total HxCB labeled F4

M2160218DS007 Smooth(SG,3x1)



Total HxCB labeled F4

M2160218DS007 Smooth(SG,3x1)



Acquired Date

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

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ID: Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

Description: BRP508-01R

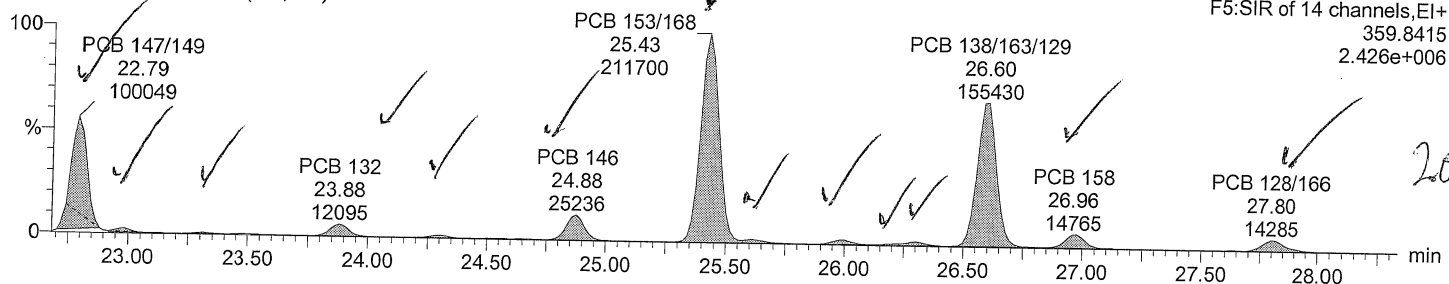
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Date: 18-FEB-2016

Time: 23:28:36

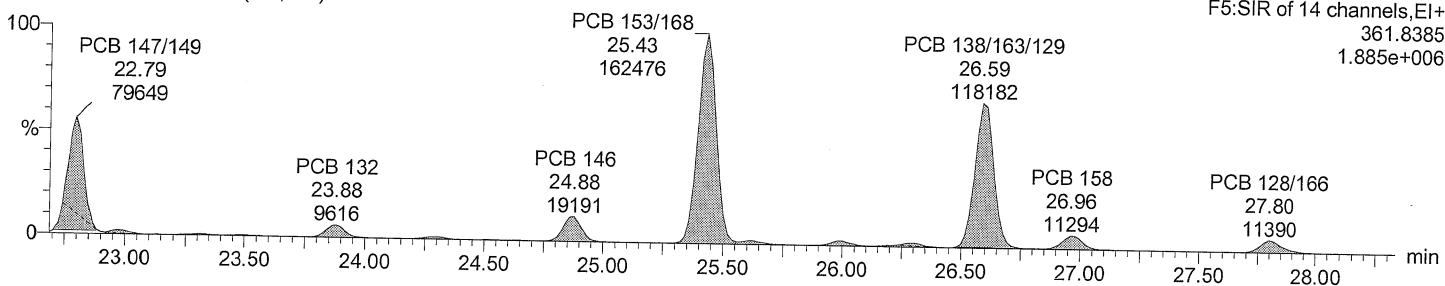
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M2160218DS007 Smooth(SG,1x1)



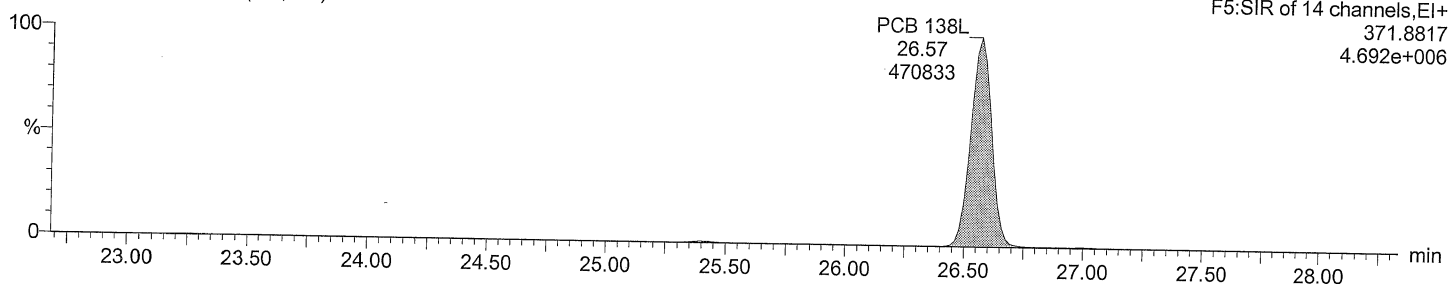
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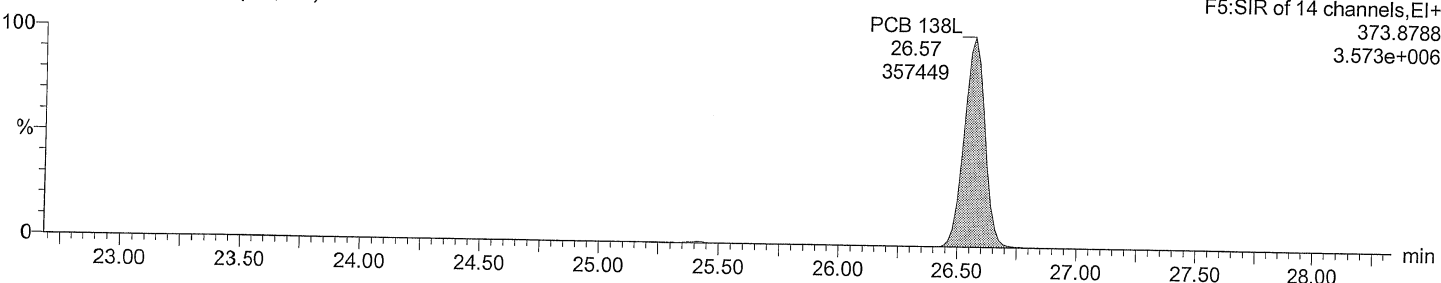
Total HxCB labeled F5

M2160218DS007 Smooth(SG,3x1)



Total HxCB labeled F5

M2160218DS007 Smooth(SG,3x1)



Acquired Date

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

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ID: Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

Description: BRP508-01R

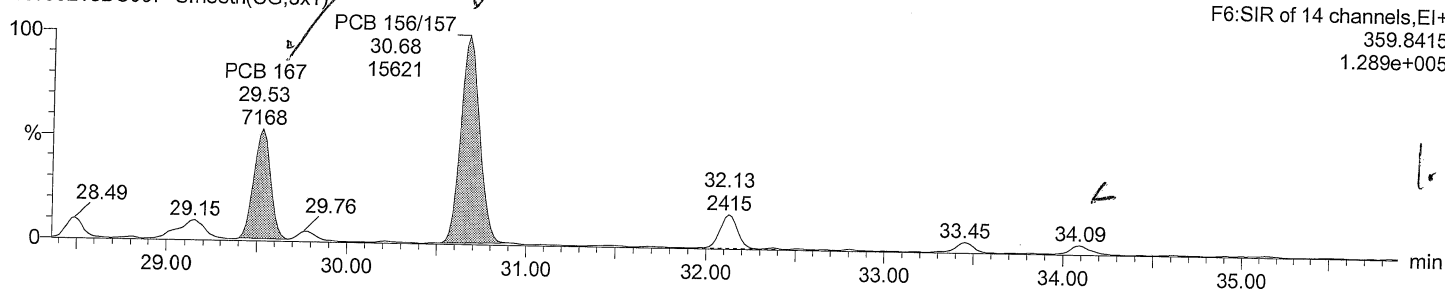
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Date: 18-FEB-2016

Time: 23:28:36

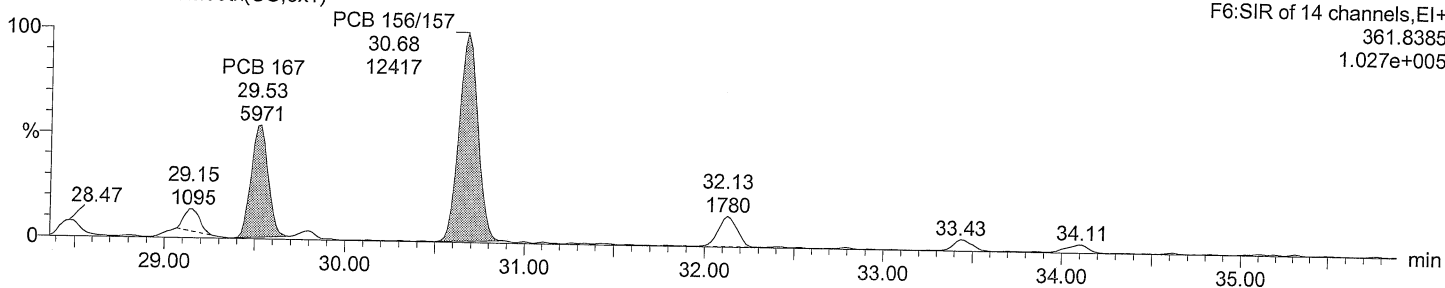
Total HxCB F6

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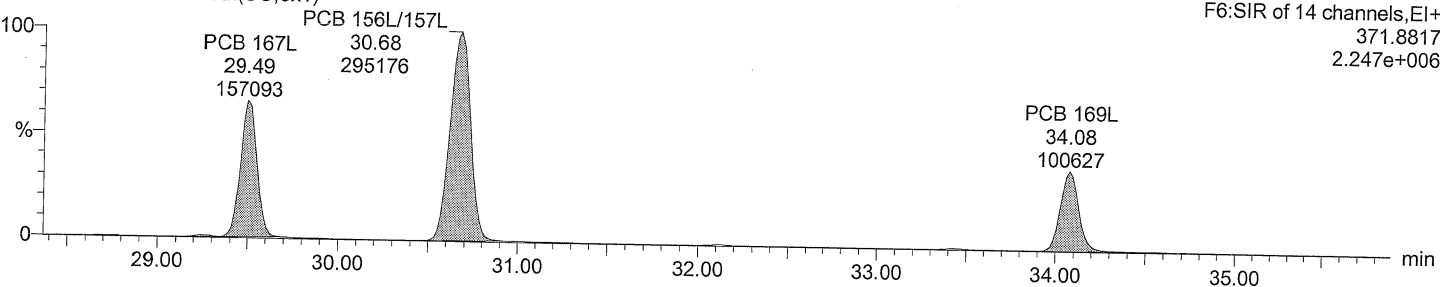
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M2160218DS007 Smooth(SG,3x1)



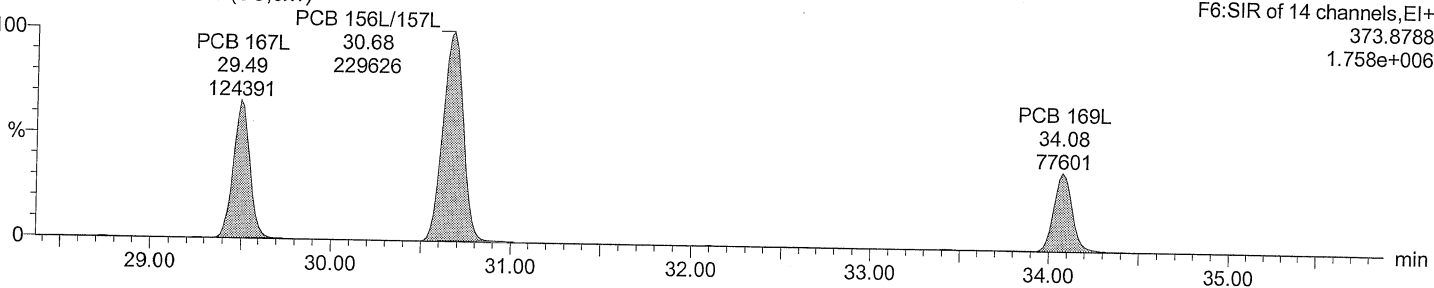
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M2160218DS007 Smooth(SG,3x1)



Total HxCB labeled F6

M2160218DS007 Smooth(SG,3x1)



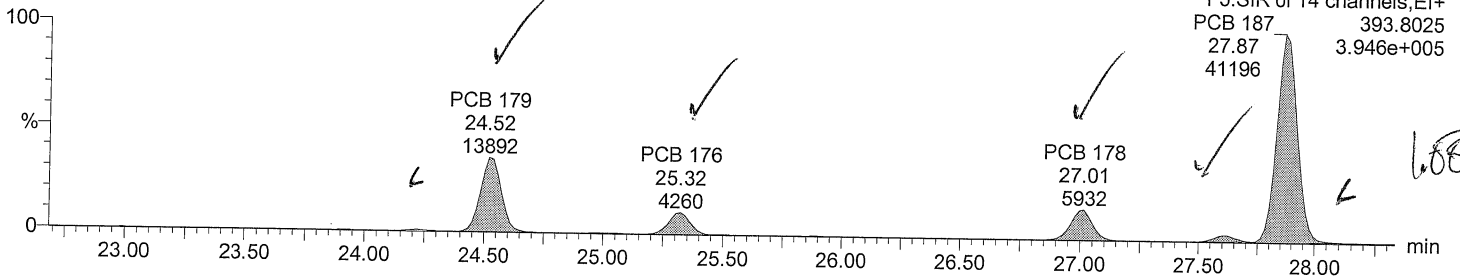
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Last Altered: February 20, 2016 10:27:04 AM Eastern Standard Time
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ID: Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti
Description: BRP508-01R
Vial: 7
Date: 18-FEB-2016
Time: 23:28:36

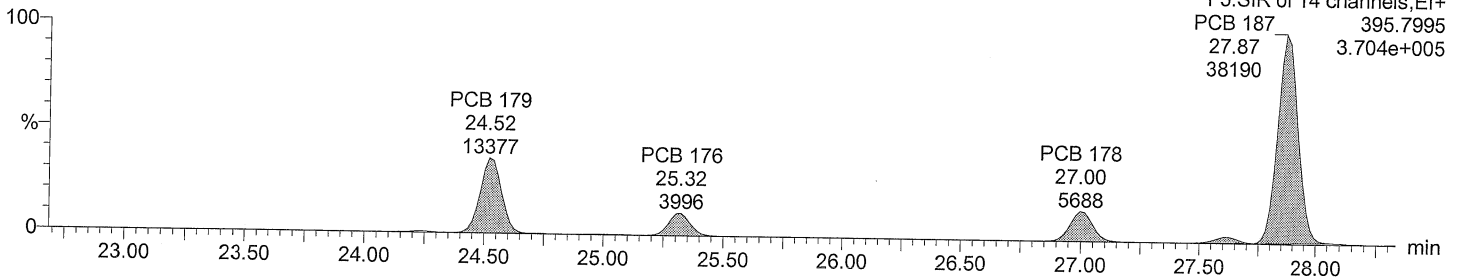
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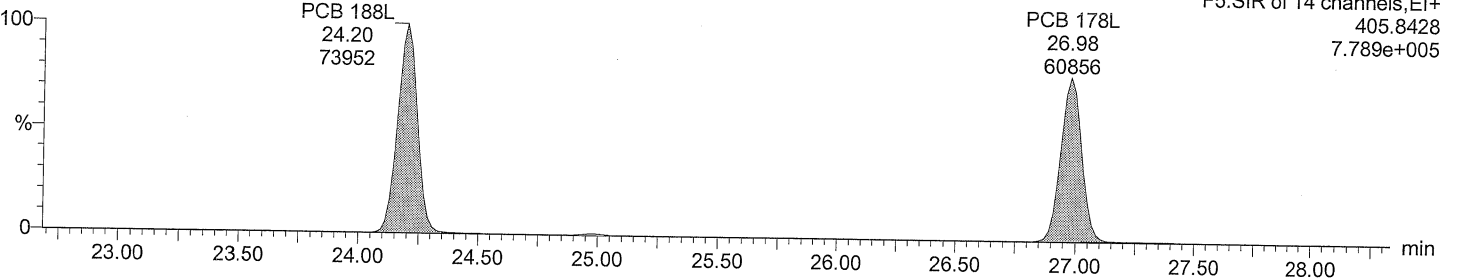
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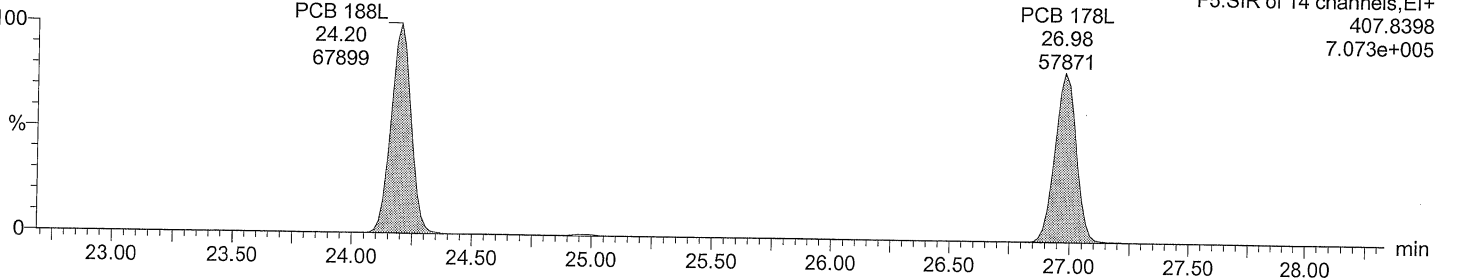
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M2160218DS007 Smooth(SG,3x1)



Total HpCB labeled F5

M2160218DS007 Smooth(SG,3x1)



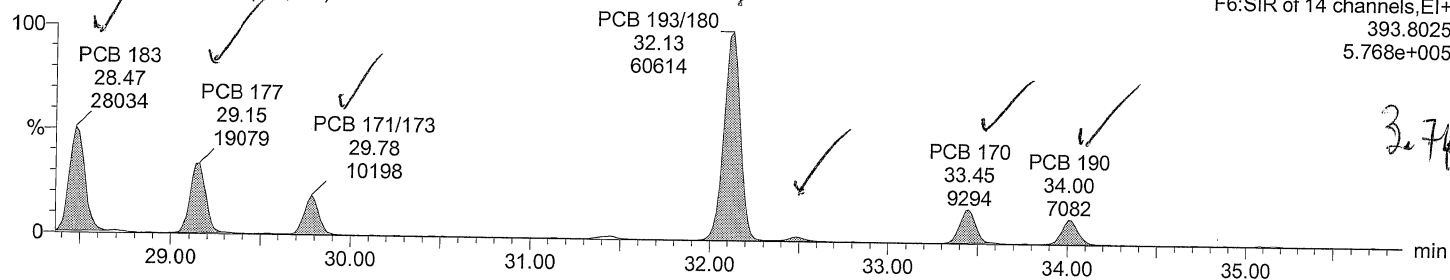
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Description: BRP508-01R
Vial: 7
Date: 18-FEB-2016
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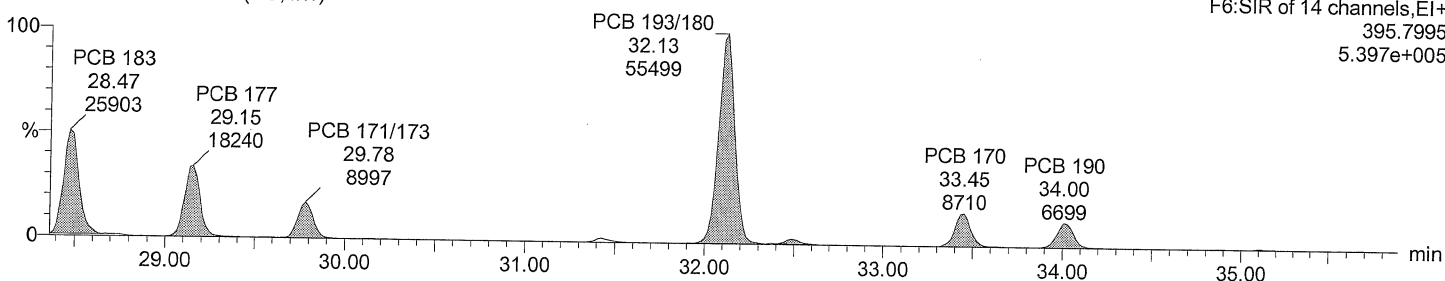
Total HpCB F6

M2160218DS007 Smooth(SG,1x1)



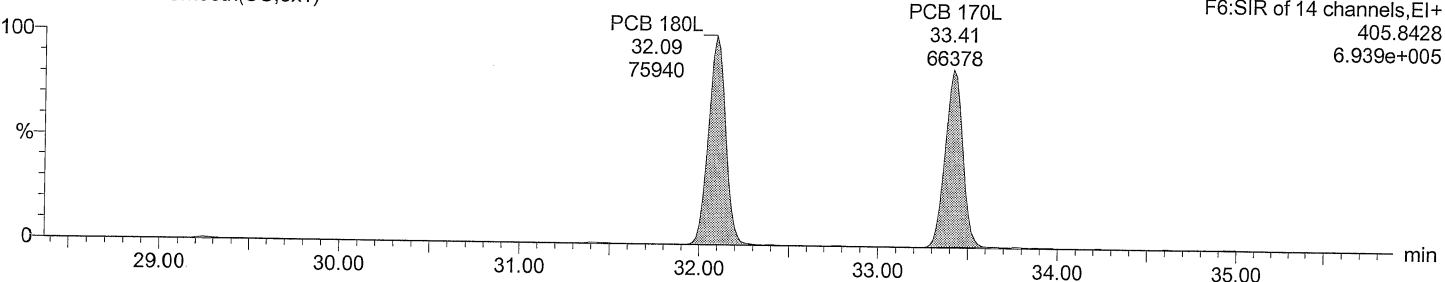
Total HpCB F6

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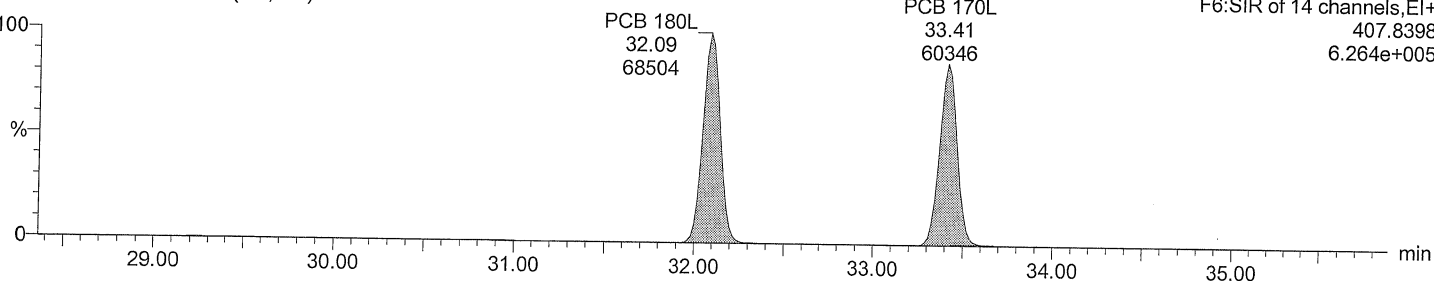
Total HpCB labeled F6

M2160218DS007 Smooth(SG,3x1)



Total HpCB labeled F6

M2160218DS007 Smooth(SG,3x1)



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Description: BRP508-01R

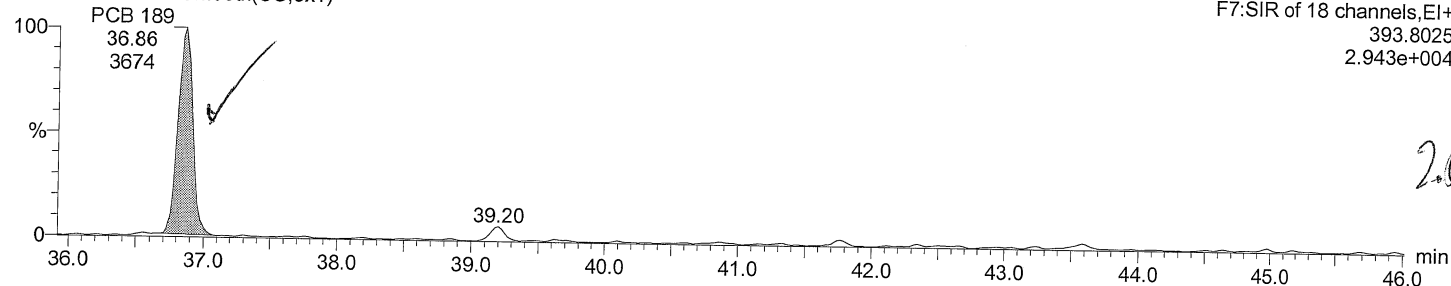
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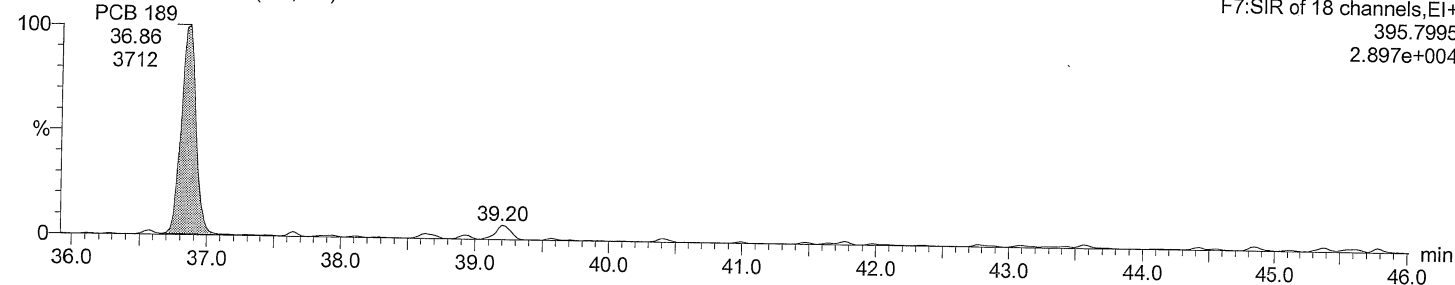
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M2160218DS007 Smooth(SG,3x1)



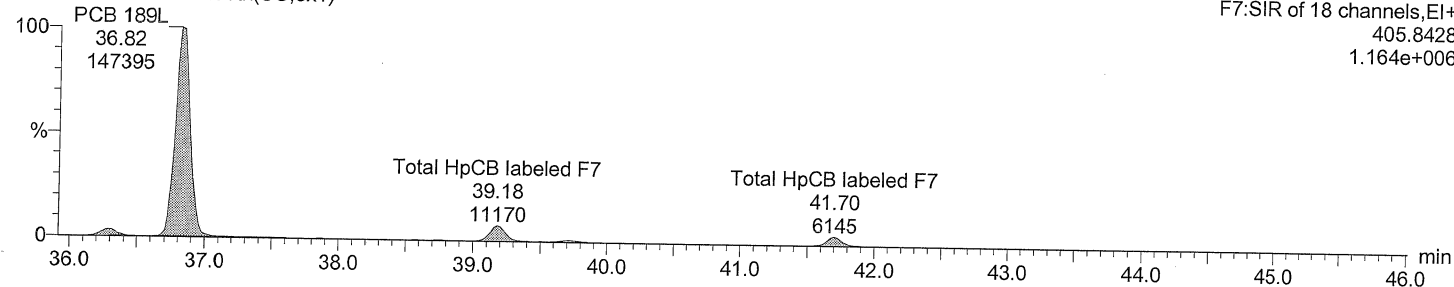
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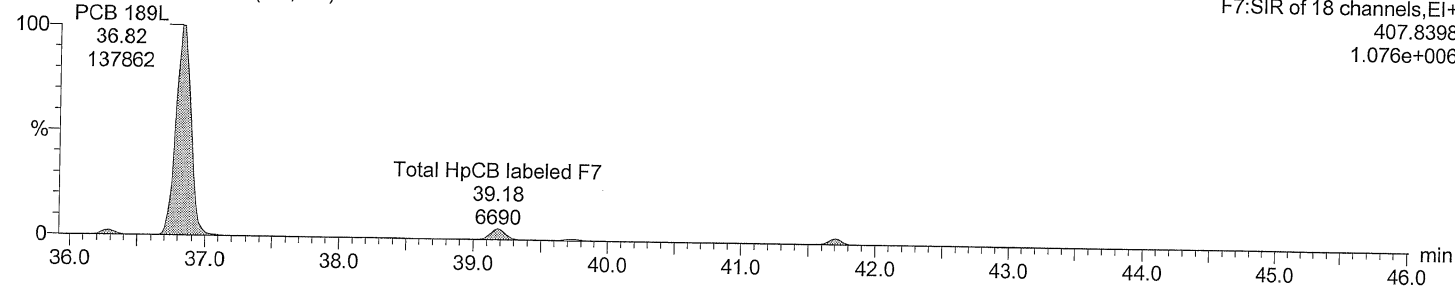
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M2160218DS007 Smooth(SG,3x1)



Total HpCB labeled F7

M2160218DS007 Smooth(SG,3x1)



Acquired Date

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Description: BRP508-01R

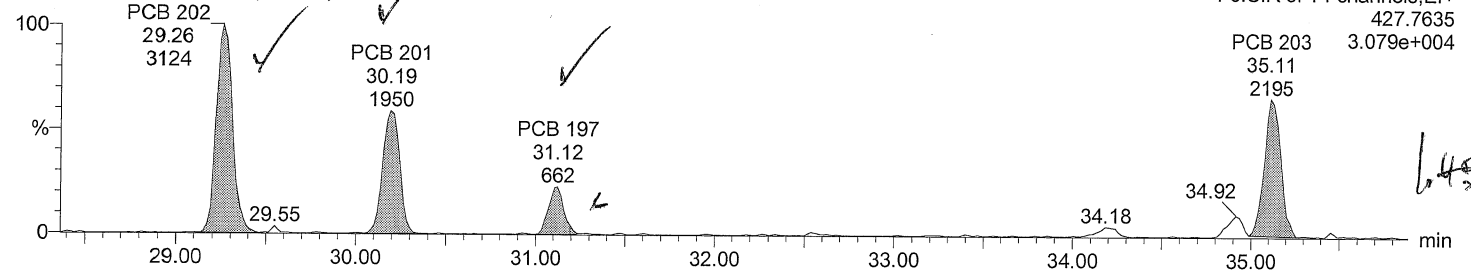
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Time: 23:28:36

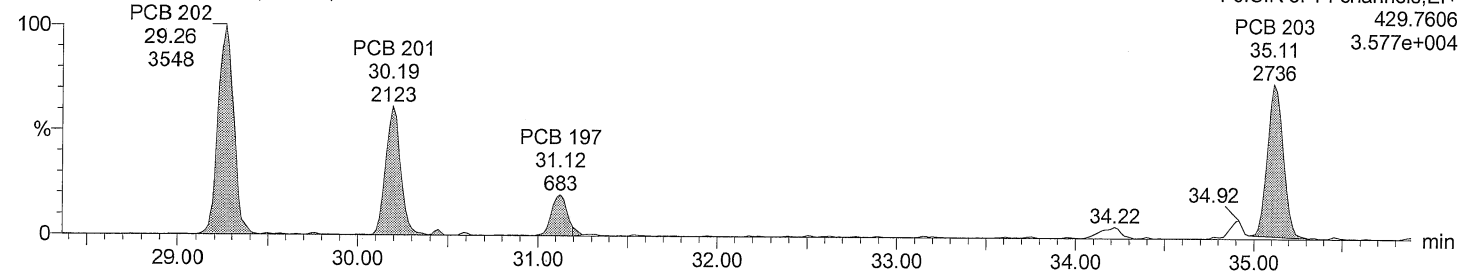
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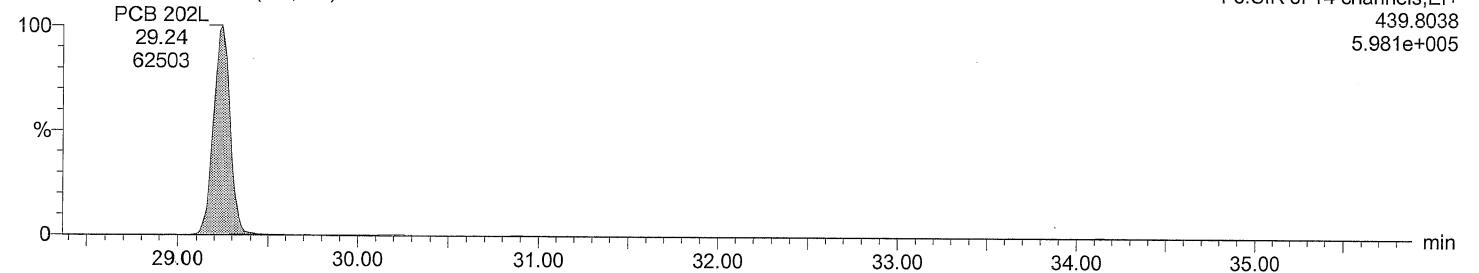
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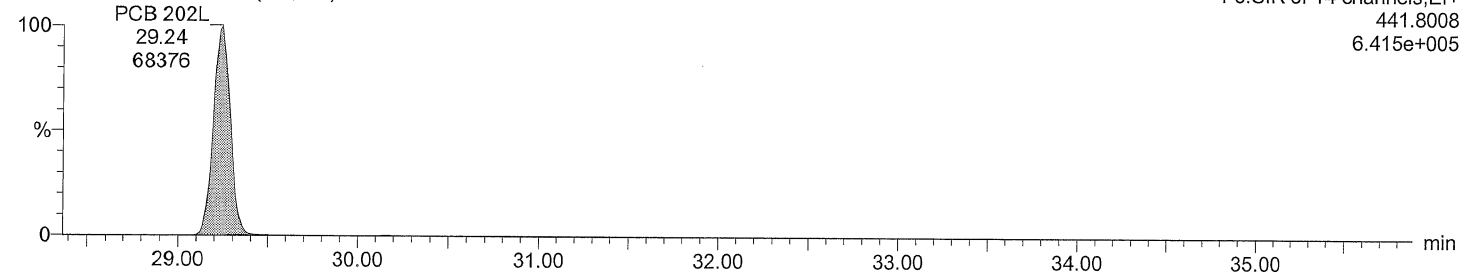
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M2160218DS007 Smooth(SG,3x1)



Total OcCB labeled F6

M2160218DS007 Smooth(SG,3x1)



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Description: BRP508-01R

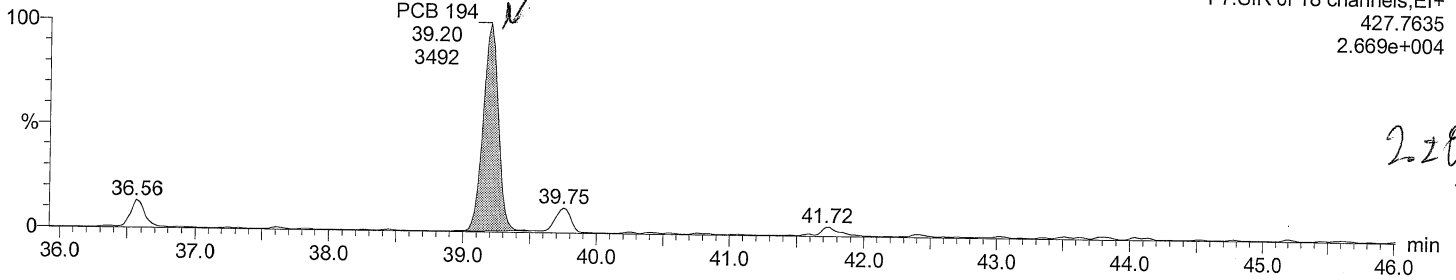
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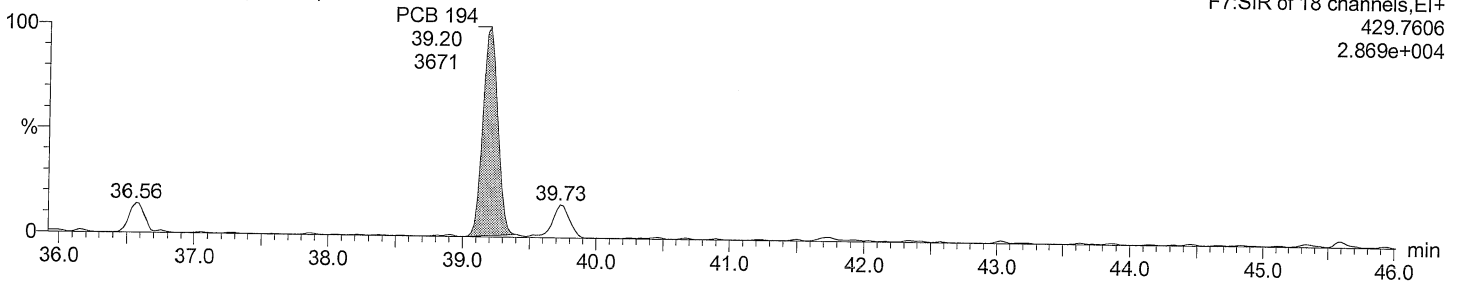
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M2160218DS007 Smooth(SG,3x1)



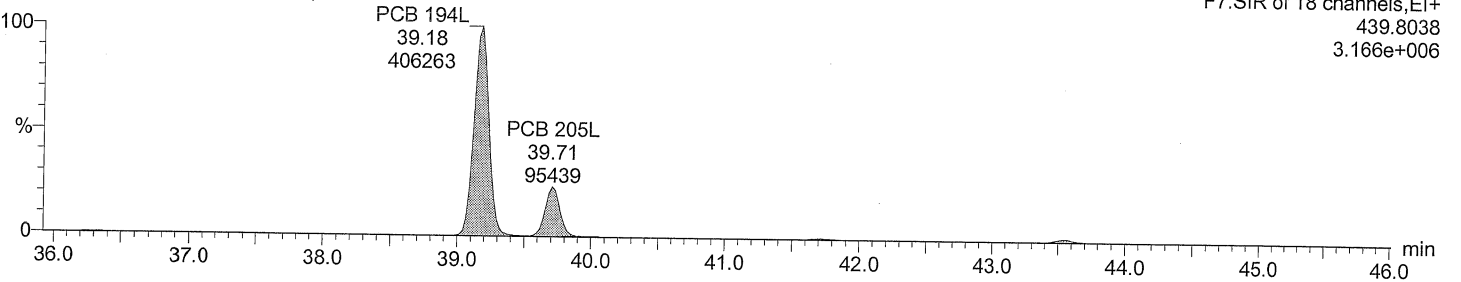
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M2160218DS007 Smooth(SG,3x1)



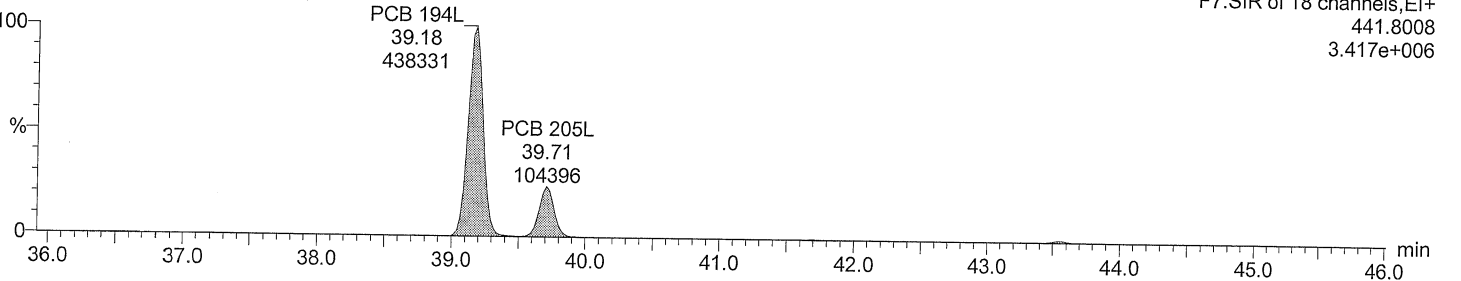
Total OcCB labeled F7

M2160218DS007 Smooth(SG,3x1)



Total OcCB labeled F7

M2160218DS007 Smooth(SG,3x1)



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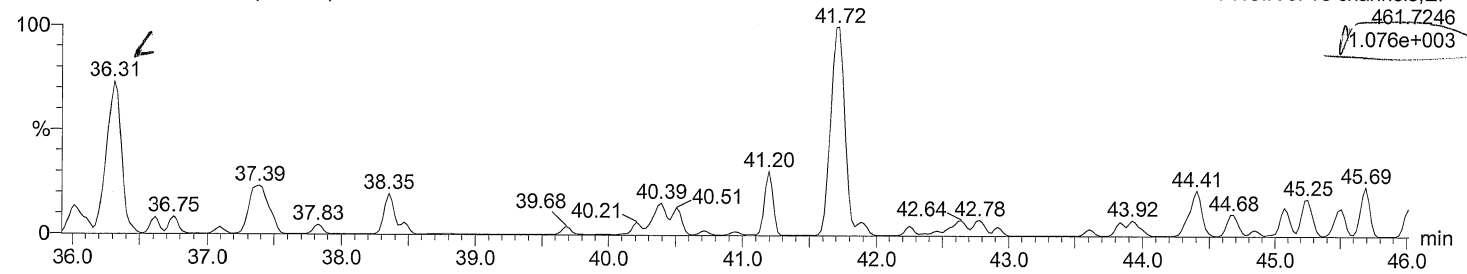
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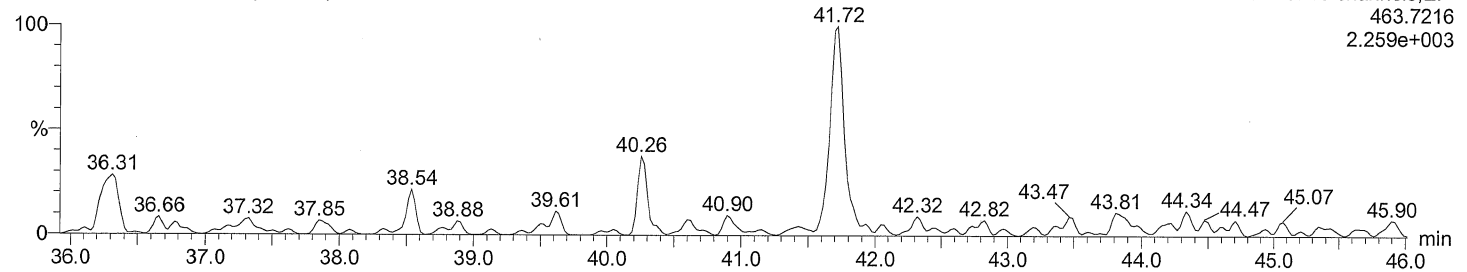
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M2160218DS007 Smooth(SG,3x1)



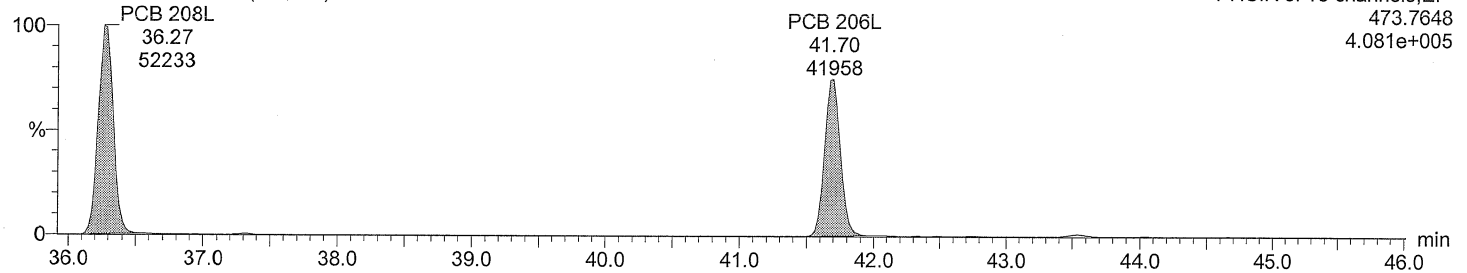
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M2160218DS007 Smooth(SG,3x1)



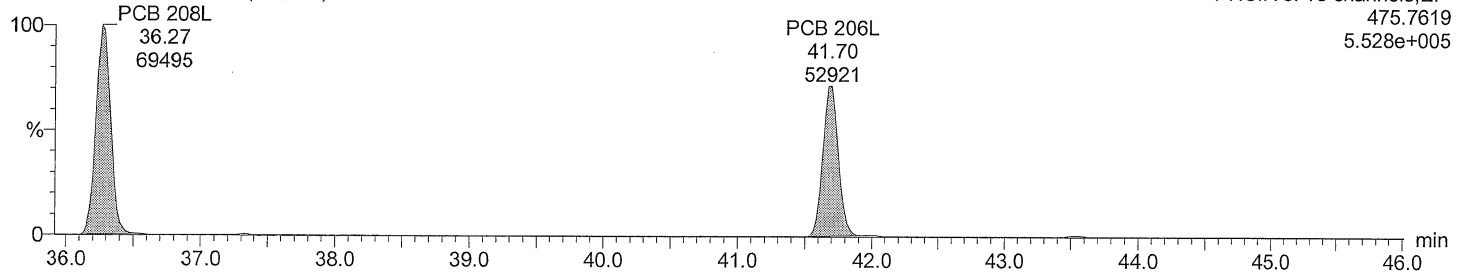
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M2160218DS007 Smooth(SG,3x1)



Total NoCB labeled F7

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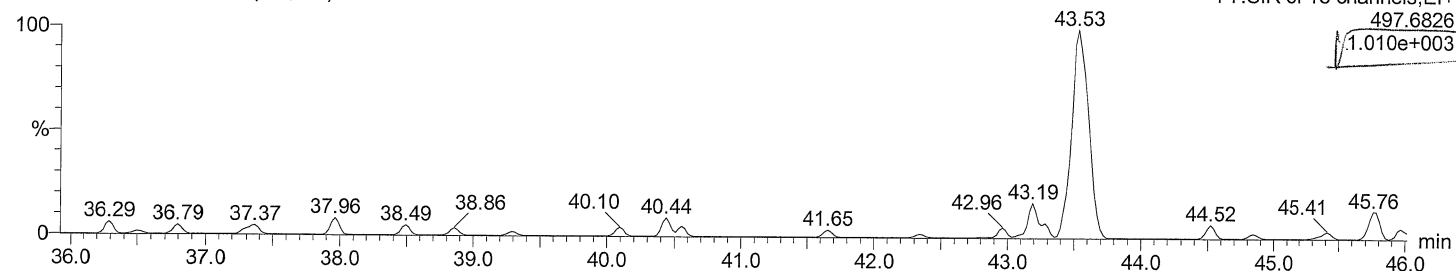
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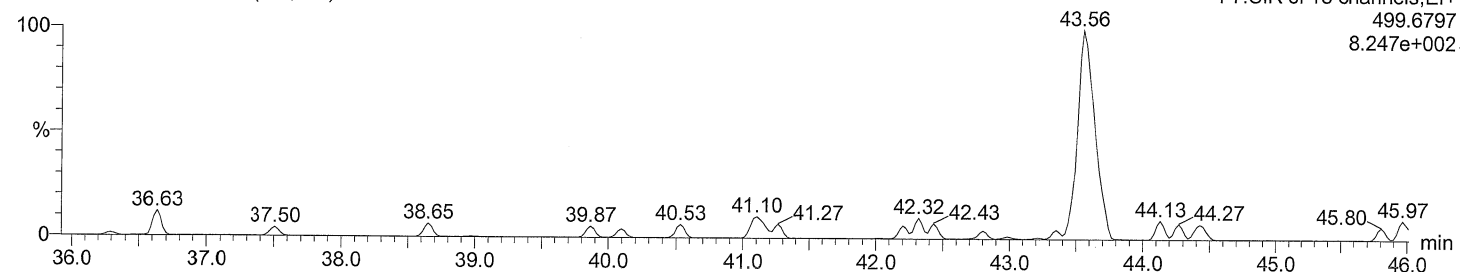
Total DeCB F7

M2160218DS007 Smooth(SG,3x1)



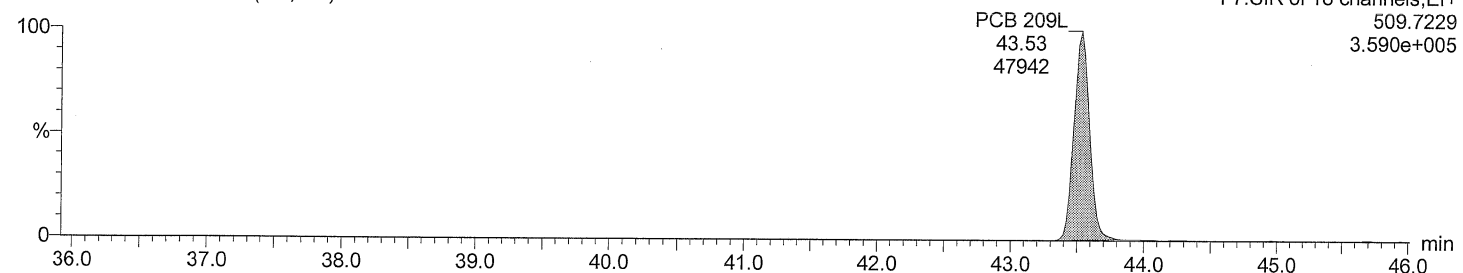
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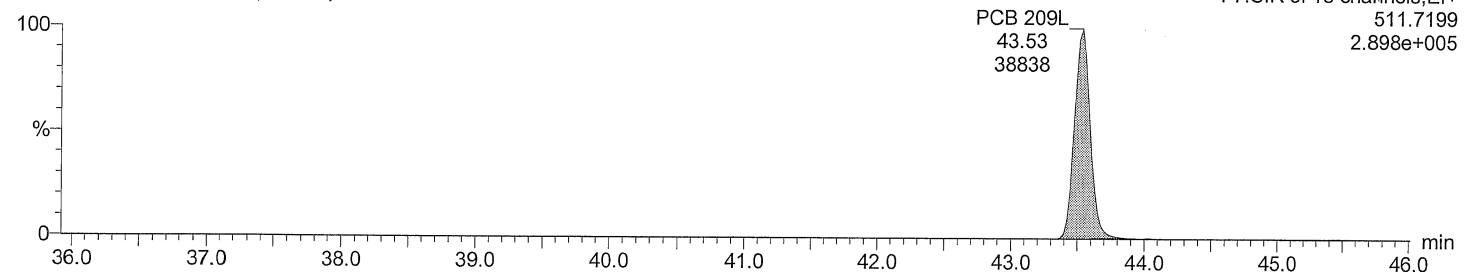
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M2160218DS007 Smooth(SG,3x1)



Total DeCB labeled F7

M2160218DS007 Smooth(SG,3x1)



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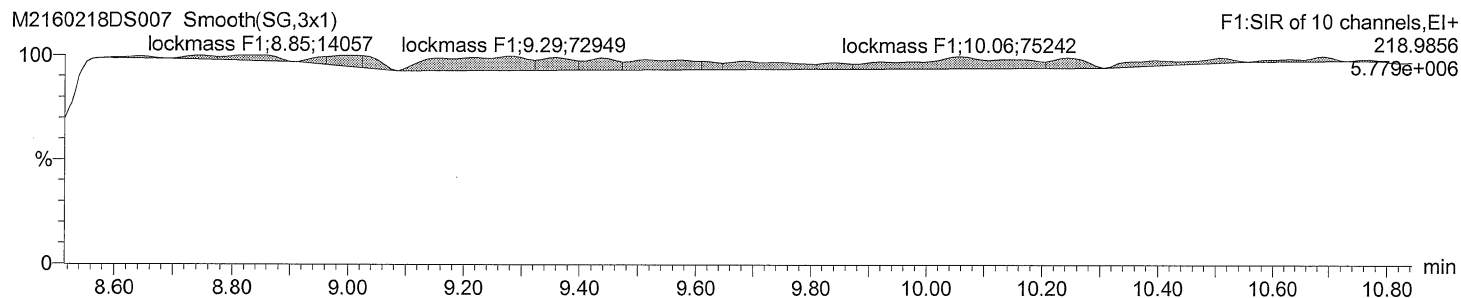
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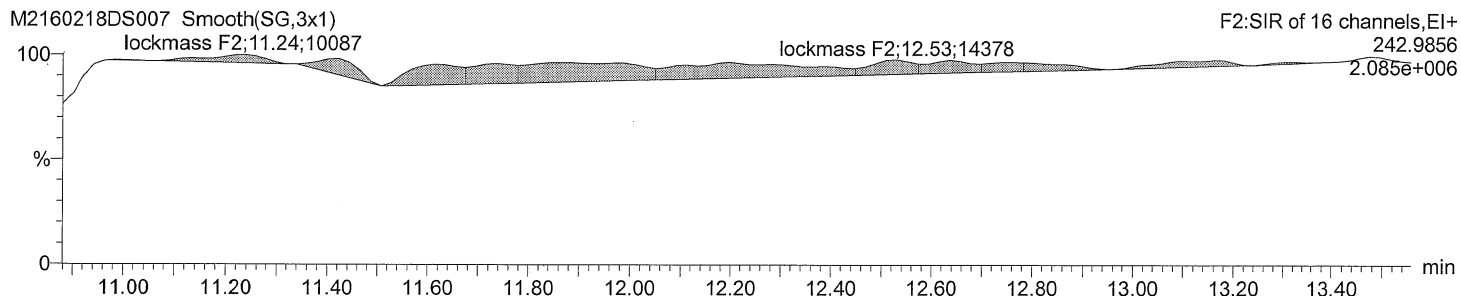
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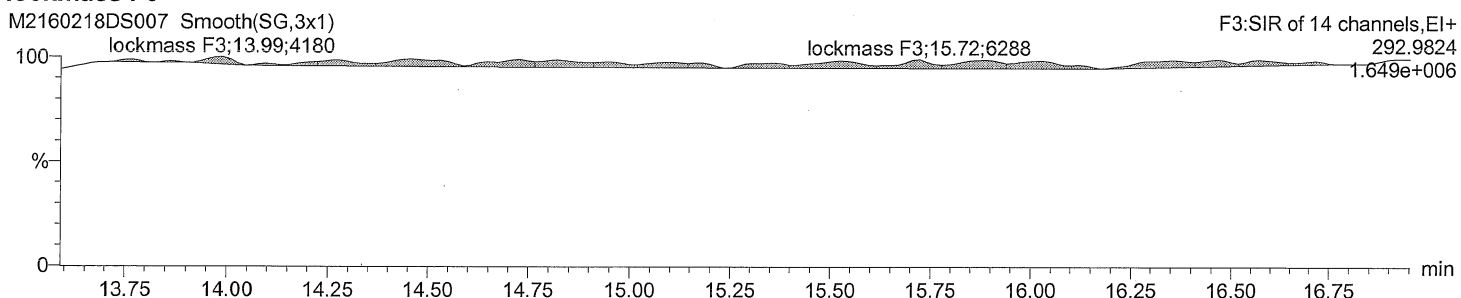
lockmass F1



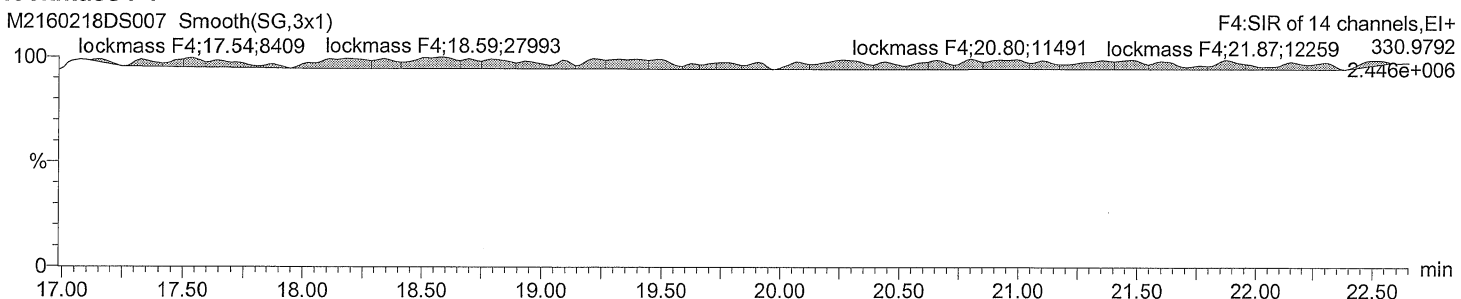
lockmass F2



lockmass F3



lockmass F4



Acquired Date

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

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Description: BRP508-01R

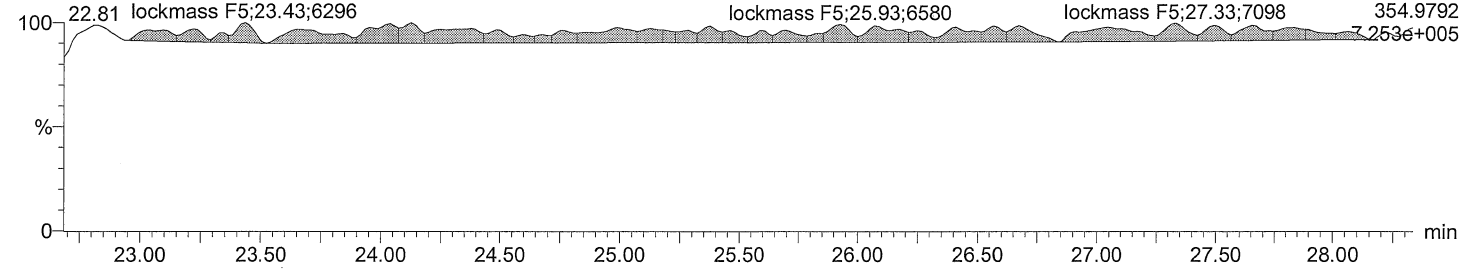
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Date: 18-FEB-2016

Time: 23:28:36

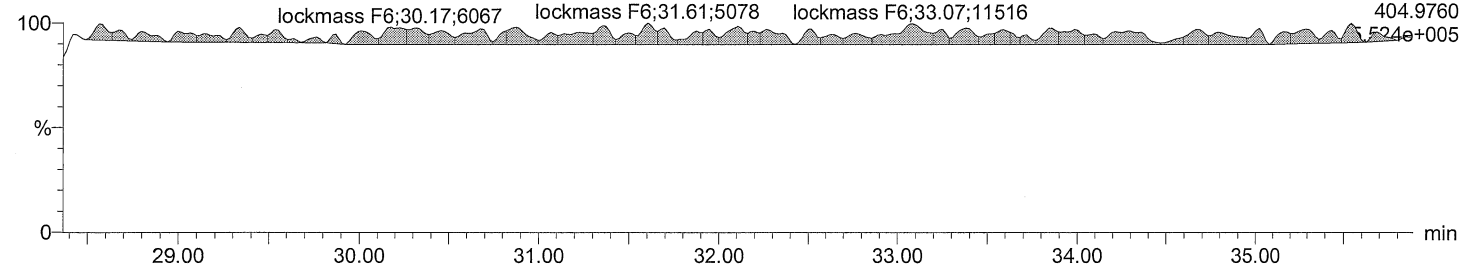
lockmass F5

M2160218DS007 Smooth(SG,3x1)



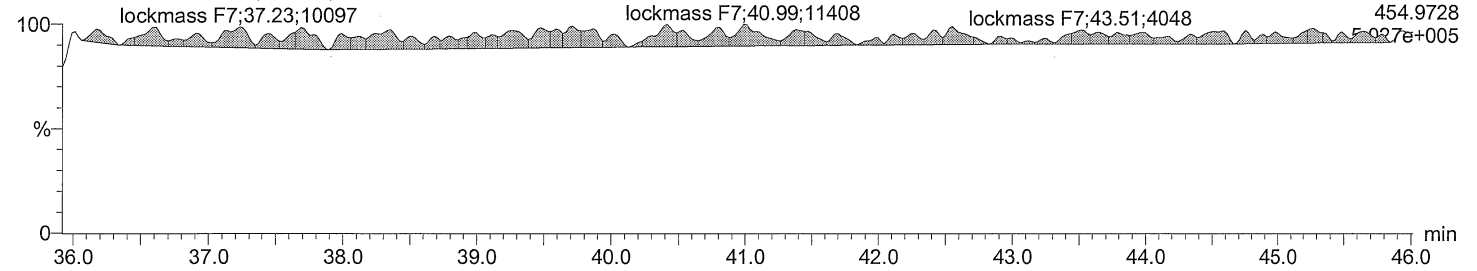
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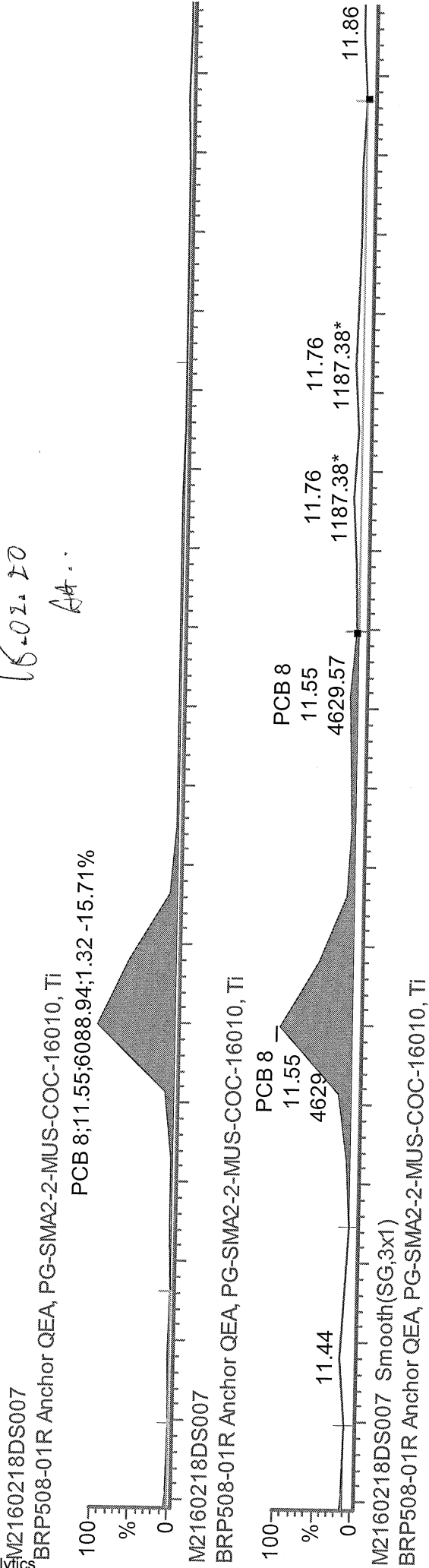


lockmass F7

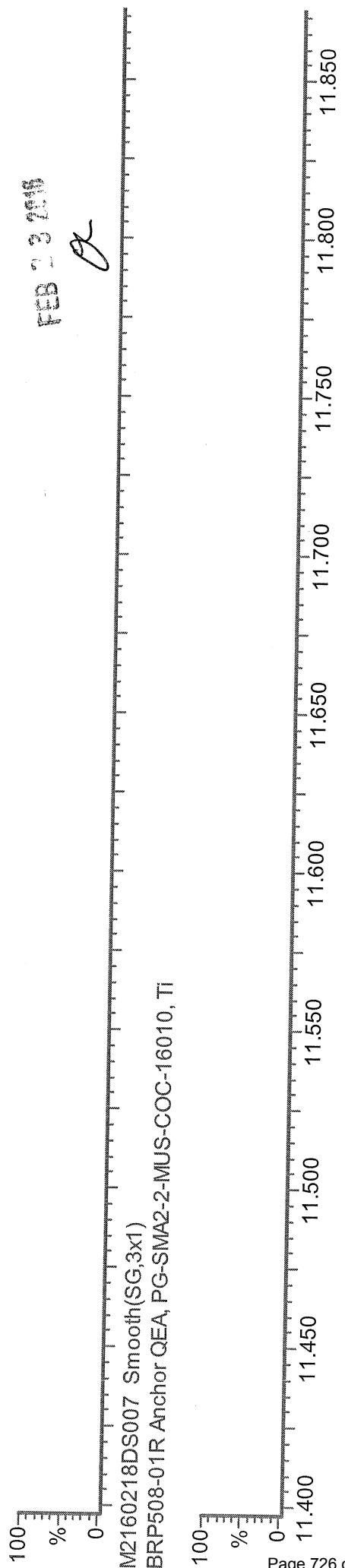
M2160218DS007 Smooth(SG,3x1)



Before
18.02.20
AA..



FEB 23 2018
R



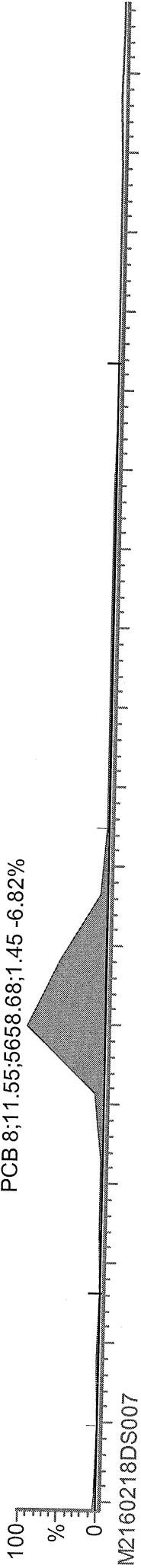
M3 16/02/20 : AH

Maxxam Analytics

M2160218DS007

BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

PCB 8;11.55;5658.68;1.45 -6.82%



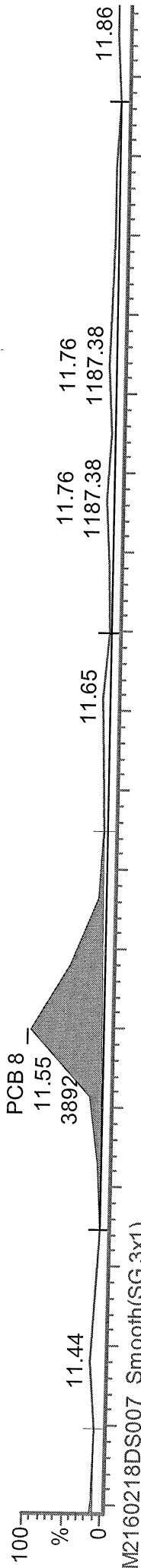
M2160218DS007

BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

PCB 8

11.55

3892



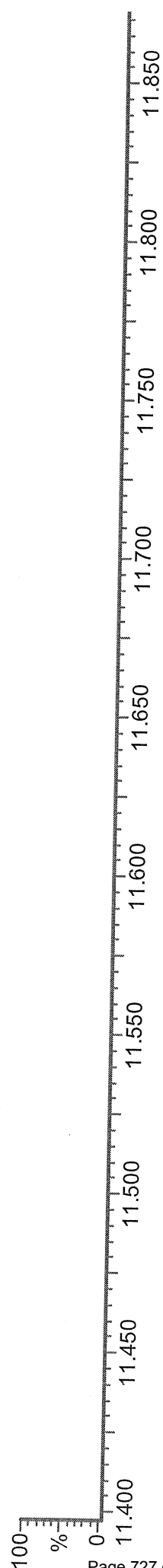
M2160218DS007 Smooth(SG,3x1)

BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

FEB 23 2016

M2160218DS007 Smooth(SG,3x1)

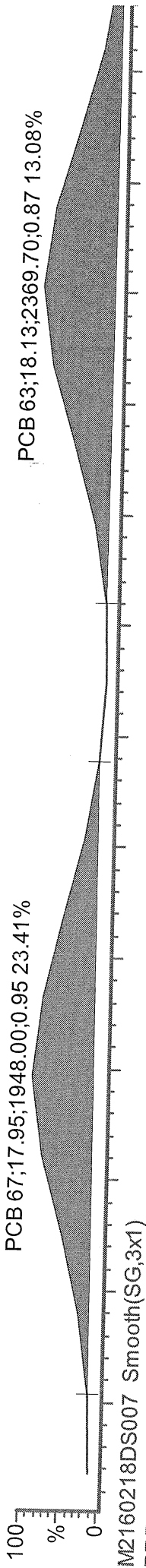
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



Before
6.02.20
Att.

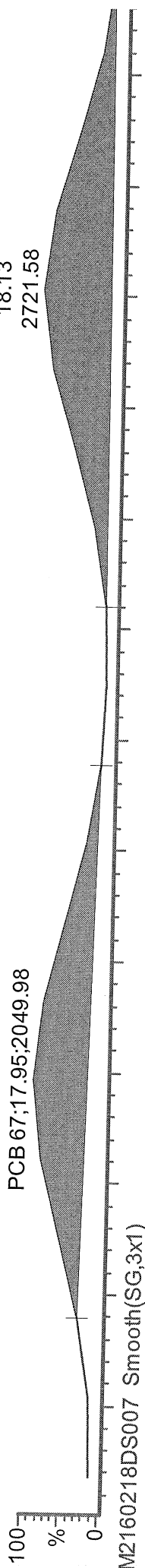
M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI

PCB 67;17.95;1948.00;0.95 23.41%



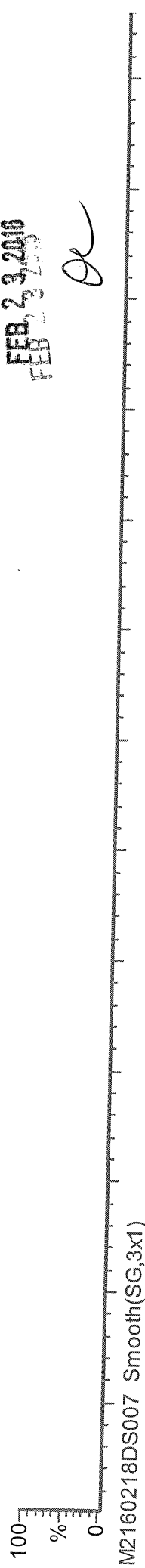
M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI

PCB 67;17.95;2049.98



PCB 63
18.13
2721.58

M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI



FEB 23 2016
FEB 23 2016
[Signature]

M3 16/02/20 : AH

Maxxam Analytics

M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

100 %
0
PCB 67;17.95;2516.90;0.77 0.13%

PCB 63;18.13;2589.83;0.79 3.23%

M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

100 %
0
PCB 67;17.95;3264.49

PCB 63
18.13
3258.15

M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

100 %
0

FEB 23 2016

M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

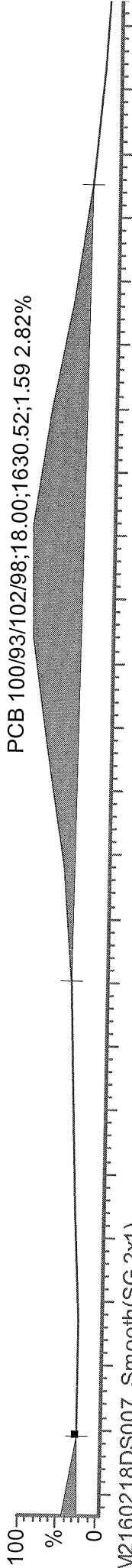
100 %
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17.875 17.900 17.925 17.950 17.975 18.000 18.025 18.050 18.075 18.100 18.125 18.150 18.175

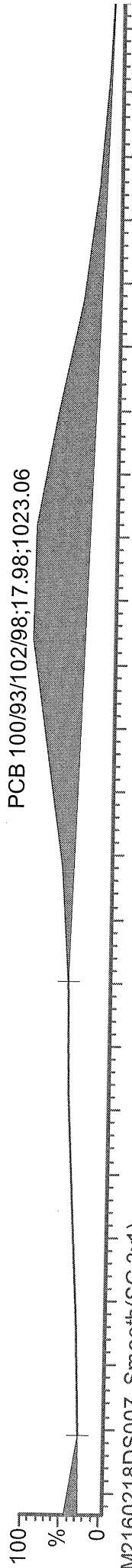
Before

*16.02.20
AA..*

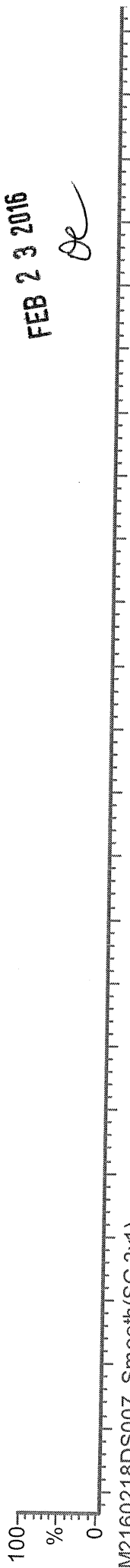
M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

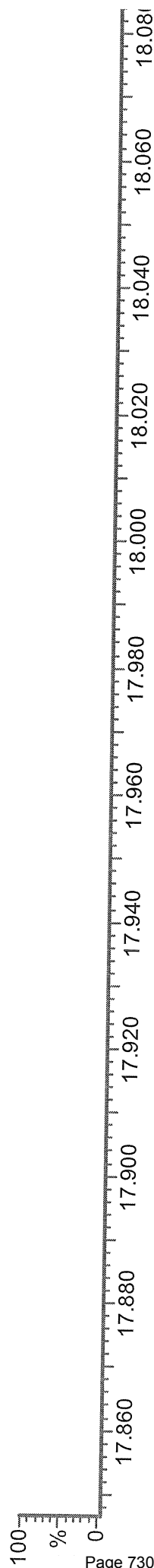


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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



FEB 23 2016

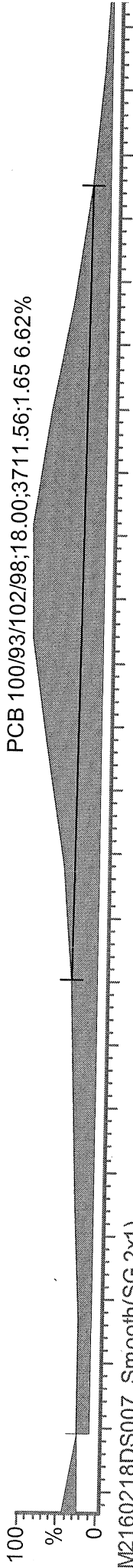
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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



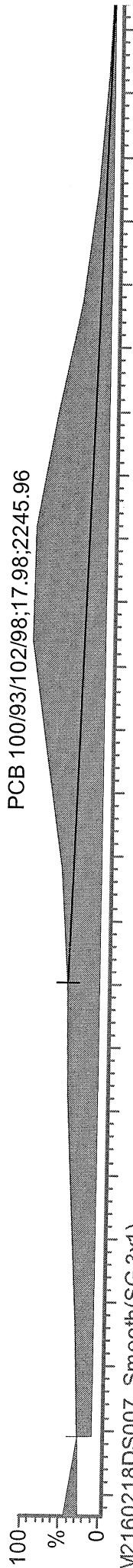
M3 16/02/20 : AH

Maxxam Analytical

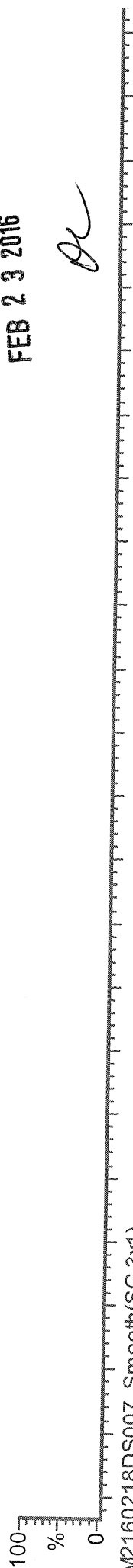
M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

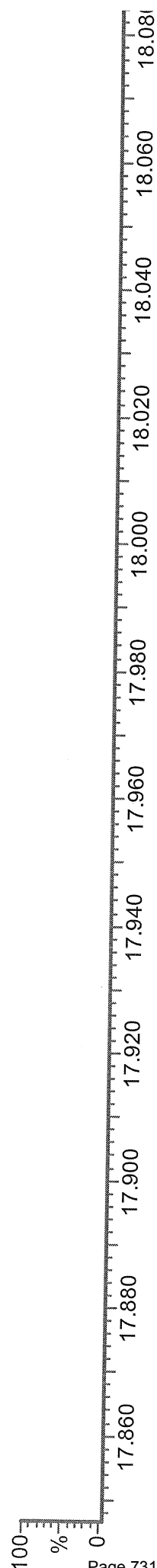


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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



FEB 23 2016

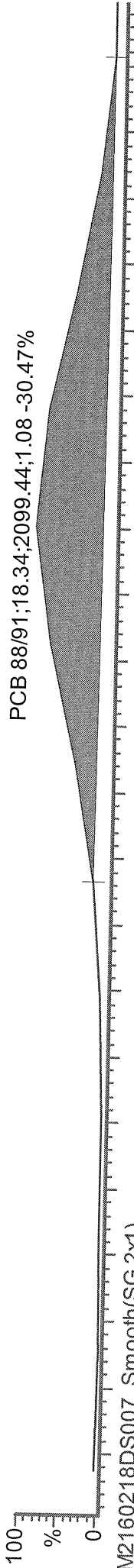
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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



Before

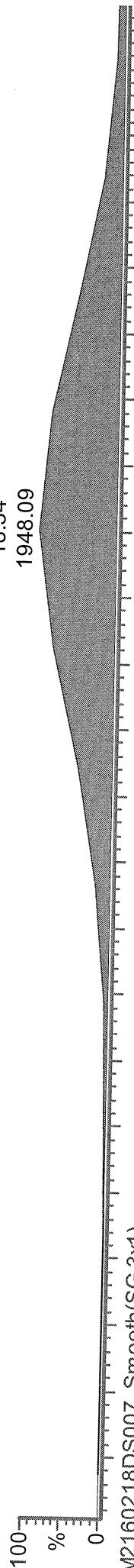
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M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

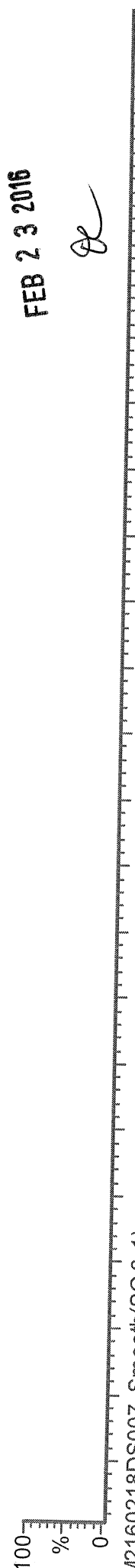


M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

PCB 88/91
18.34
1948.09

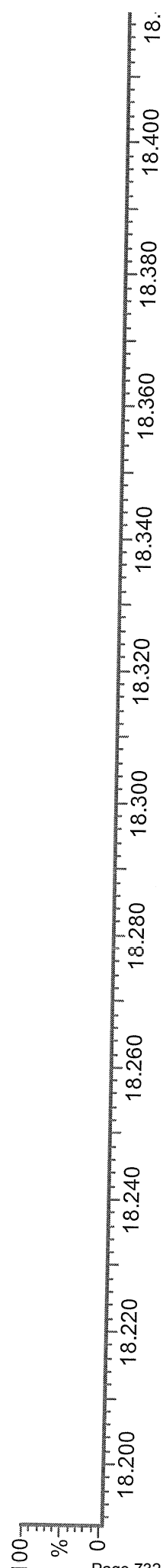


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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



FEB 23 2016

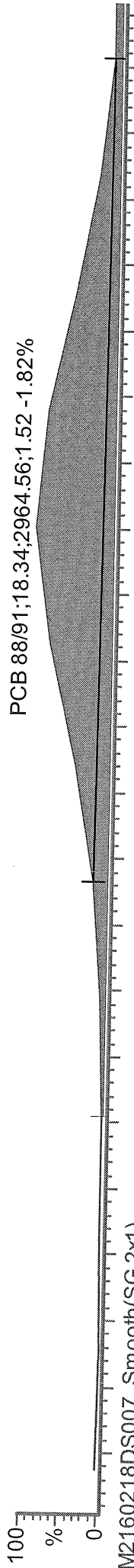
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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



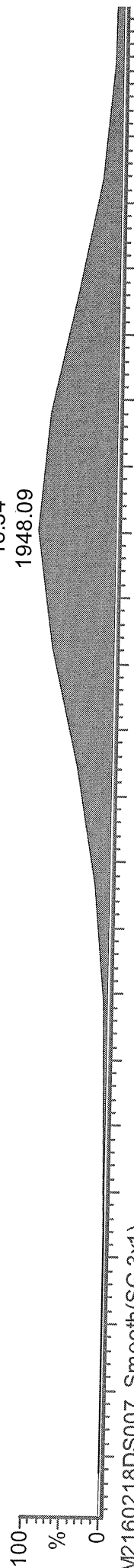
M3 16/02/20 : AH

Maxxam Analytical

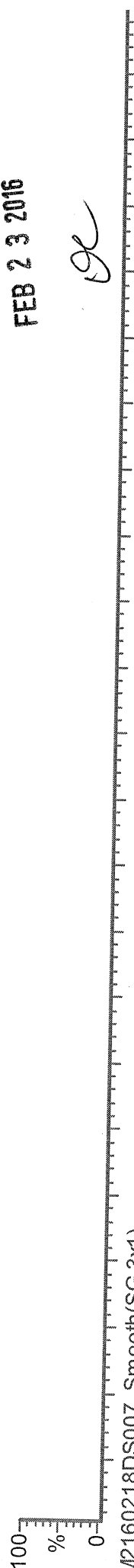
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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

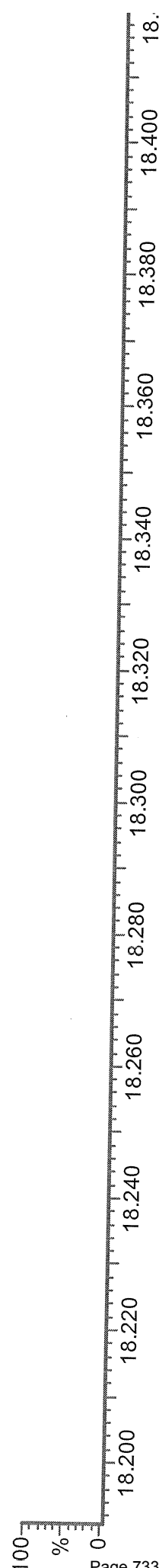


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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



FEB 23 2016

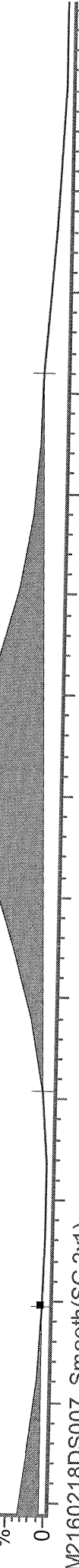
M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



Before
18.02.20
AA-

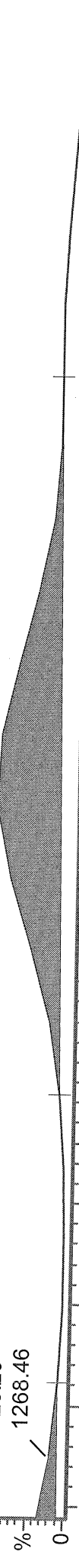
M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

100%
0%
PCB 107;23.40;4535.34;1.65 6.59%



M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

100%
0%
PCB 108/124
23.20
1268.46
PCB 107;23.40;2745.19



M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

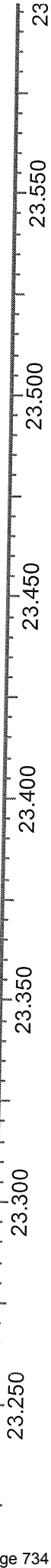
100%
0%

FEB 23 2016

OR

M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

100%
0%

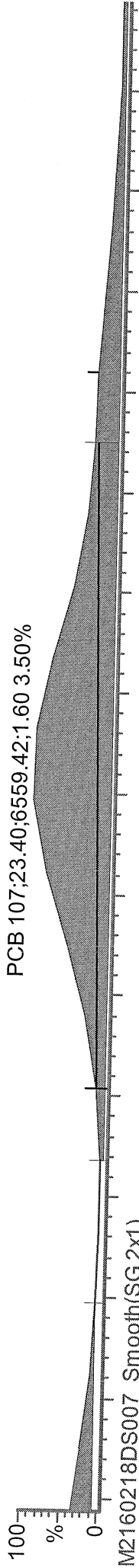


M3 16/02/20 : AH

Maxxam Analyt

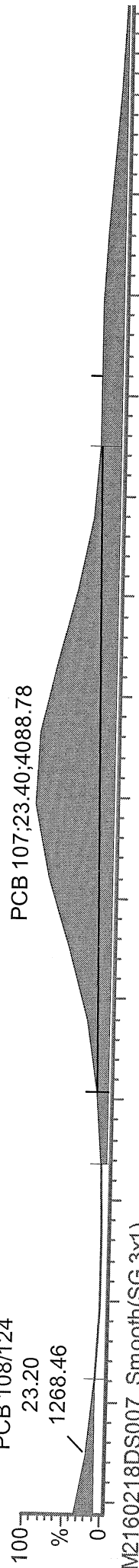
M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

PCB 107;23.40;6559.42;1.60 3.50%

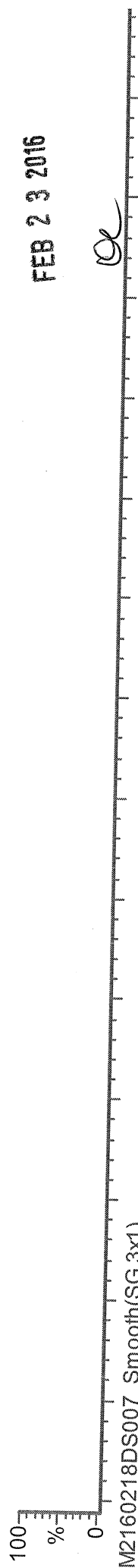


M2160218DS007 Smooth(SG,2x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

PCB 108/124
23.20
1268.46



M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



FEB 23 2016

Q

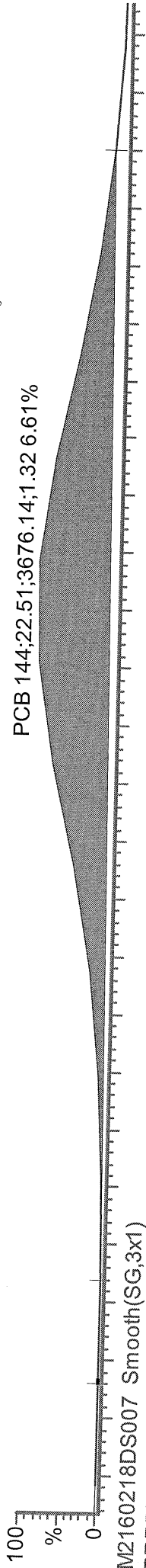
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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti



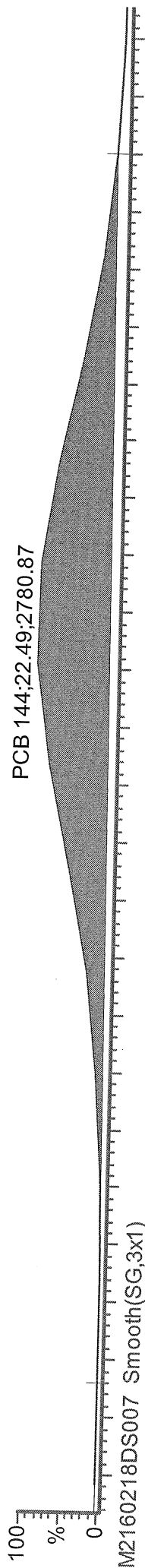
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*16.02.20
AM..*

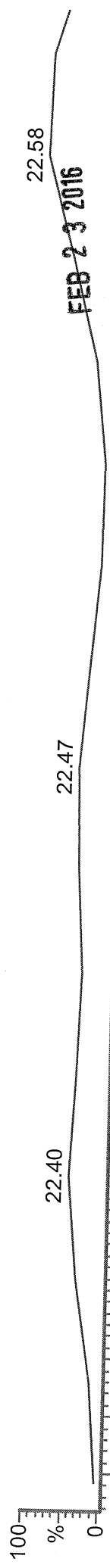
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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI



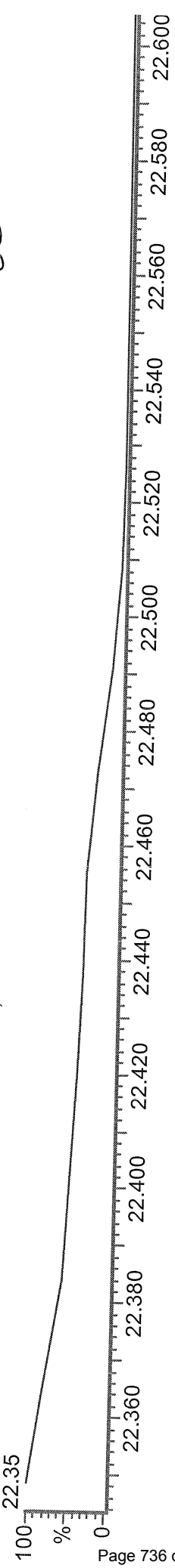
M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI



M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI

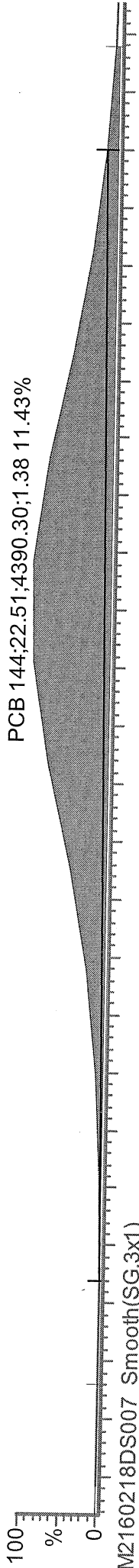


M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI

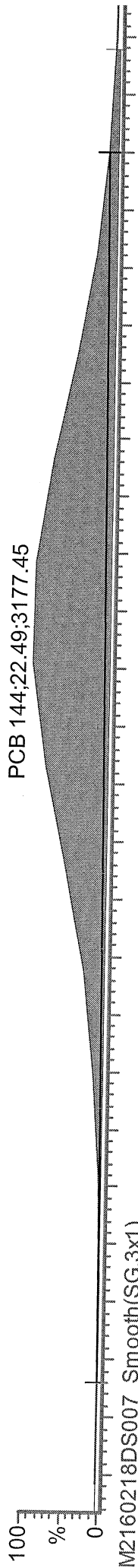


M3 16/02/20 : AH

M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

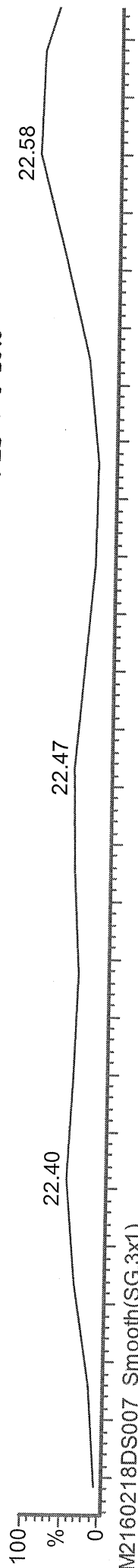


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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

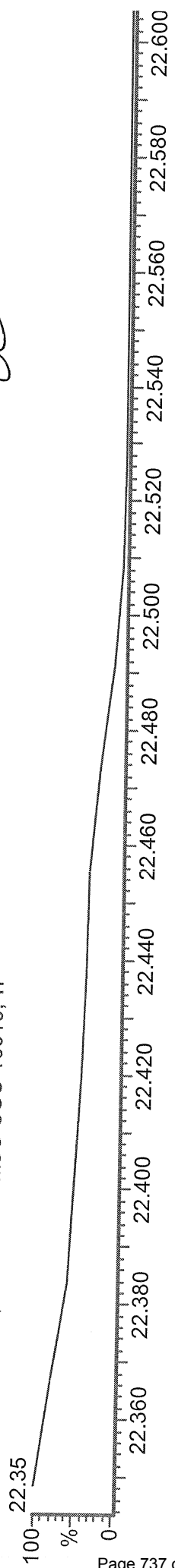


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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

FEB 23 2016

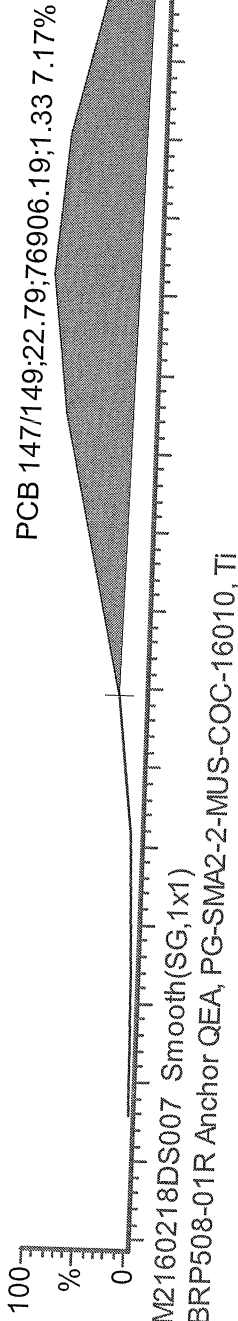


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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, Ti

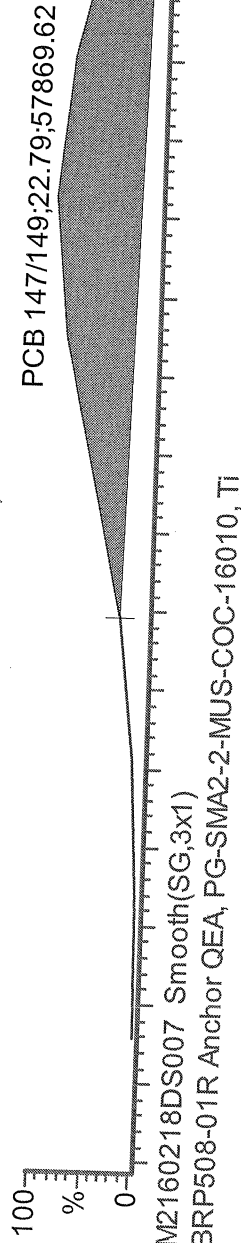


Below
16.02.20
A.H.-

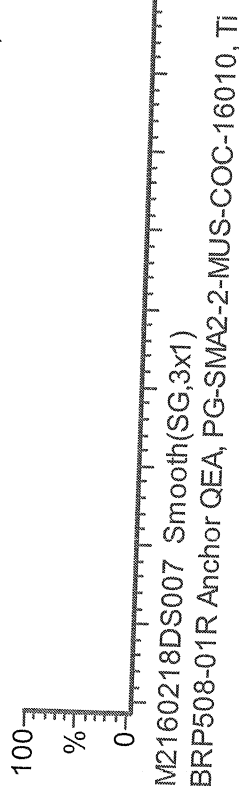
M2160218DS007 Smooth(SG,1x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI



M2160218DS007 Smooth(SG,1x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI



M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI

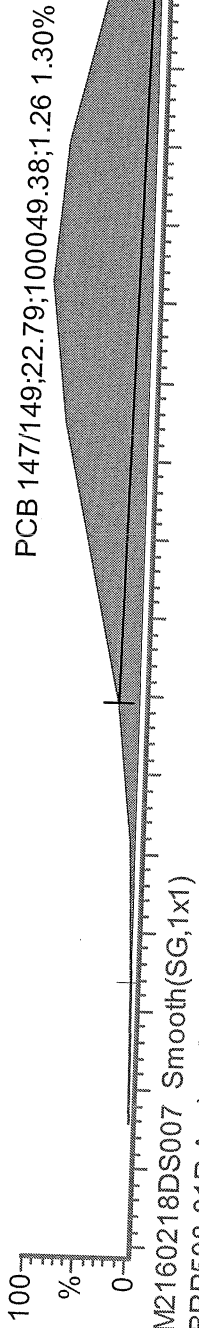


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BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI

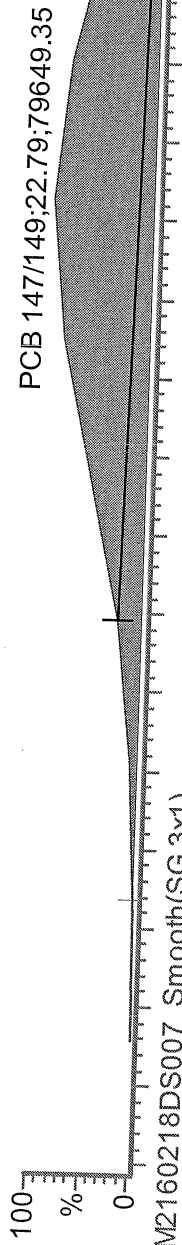
FEB 23 2016
De

M3 16/02/20 : AH

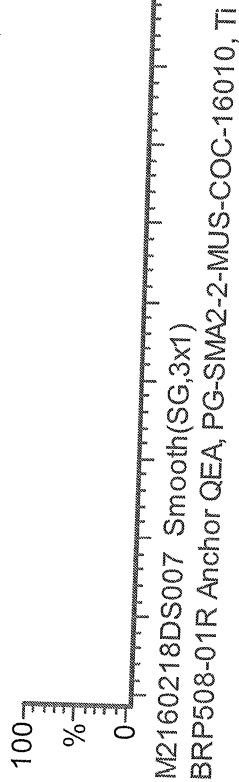
M2160218DS007 Smooth(SG,1x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI



M2160218DS007 Smooth(SG,1x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI



M2160218DS007 Smooth(SG,3x1)
BRP508-01R Anchor QEA, PG-SMA2-2-MUS-COC-16010, TI



FEB 23 2016

Sample ID BRP509-01R
 Comments
 Instrument File Ultima 3
 Sample Size 10.142

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	*	*	*	-0.00063							
	MoCB 190	8.98	*	no					-0.00063	*	no	1.082	-
2 PCB 2	188	NotFnd	*	*	*	-0.00057							
	MoCB 190	10.10	*	no					-0.00057	*	no	1.2	-
3 PCB 3	188	NotFnd	*	*	*	-0.00063							
	MoCB 190	10.19	*	no					-0.00063	*	no	1.079	-
4 PCB 4	222	NotFnd	*	*	*	-0.00248							
	DICB 224	10.29	*	no					-0.00248	*	no	0.954	-
5 PCB 10	222	NotFnd	*	*	*	-0.00192							
	DICB 224	10.36	*	no					-0.00192	*	no	1.229	-
6 PCB 9	222	NotFnd	*	*	*	-0.00291							
	DICB 224	11.18	*	no					-0.00291	*	no	1.311	-
7 PCB 7	222	NotFnd	*	*	*	-0.00327							
	DICB 224	11.26	*	no					-0.00327	*	no	1.165	-
8 PCB 6	222	NotFnd	*	*	*	-0.00289							
	DICB 224	11.34	*	no					-0.00289	*	no	1.319	-
9 PCB 5	222	NotFnd	*	*	*	-0.00387							
	DiCB 224	11.50	*	no					-0.00387	*	no	0.983	-
10 PCB 8	222	11.55	6360	1.63	10254	0.007019							
	DICB 224	11.55	3894	yes					-0.00262	62	no	1.456	-
11 PCB 14	222	NotFnd	*	*	*	-0.00286							
	DICB 224	12.26	*	no					-0.00286	*	no	1.332	-
12 PCB 11	222	12.64	5181	1.35	9029	0.007005							
	DICB 224	12.66	3848	yes					-0.00296	34	no	1.285	-
13 PCB 13/12	222	NotFnd	*	*	*	-0.00315							
	DICB 224	12.81	*	no					-0.00315	*	no	1.21	-
14 PCB 15	222	12.95	15467	1.52	25627	0.019415							
	DICB 224	12.96	10160	yes					-0.00437	112	no	0.871	-
15 PCB 19	256	11.68	1056	1.09	2024	0.004135							
	TriCB 258	11.70	968	yes					-0.00118	20	yes	0.899	-
16 PCB 30/18	256	12.49	13603	1.08	26200	0.028935							
	TriCB 258	12.48	12597	yes					-0.0013	244	no	0.813	-
17 PCB 17	256	12.68	2824	0.96	5773	0.007593							
	TriCB 258	12.69	2949	yes					-0.00155	42	no	0.683	-
18 PCB 27	256	12.78	2469	0.97	5010	0.004491							
	TriCB 258	12.78	2541	yes					-0.00106	41	yes	1.002	-
19 PCB 24	256	12.87	280	0.74	657	-0.00124							
	TriCB 258	12.87	377	no					-0.00124	*	yes	0.855	-
20 PCB 16	256	12.91	4177	1.08	8047	0.014439							
	TriCB 258	12.90	3870	yes					-0.00211	69	yes	0.501	-
21 PCB 32	256	13.14	-4304.56	1.04	-8443.56	-0.00698	PCB 32 NDR						
	TriCB 258	13.13	-4139	OK					-0.00097	75	xL	1.093	-
22 PCB 34	256	NotFnd	*	*	*	-0.00122							
	TriCB 258	13.74	*	no					-0.00122	*	no	1.235	-
23 PCB 23	256	NotFnd	*	*	*	-0.00145							
	TriCB 258	13.82	*	no					-0.00145	*	no	1.033	-
24 PCB 26/29	256	13.97	11730	1.04	23029	0.01694							
	TriCB 258	13.99	11298	yes					-0.00123	50	no	1.221	-
25 PCB 25	256	14.10	5454	0.95	11216	0.007552							
	TriCB 258	14.10	5763	yes					-0.00113	23	no	1.334	-
26 PCB 31	256	14.26	57835	1.03	114185	0.076819							
	TriCB 258	14.26	56349	yes					-0.00113	246	no	1.335	-
27 PCB 28/20	256	14.42	154634	1.03	305164	0.230263							
	TriCB 258	14.43	150530	yes					-0.00126	630	no	1.191	-
28 PCB 21/33	256	14.55	28482	1.05	55609	0.039798							
	TriCB 258	14.53	27127	yes					-0.0012	108	no	1.255	-
29 PCB 22	256	14.77	24766	1	49617	0.03955							
	TriCB 258	14.76	24852	yes					-0.00133	93	no	1.127	-
30 PCB 36	256	NotFnd	*	*	*	-0.00096							
	TriCB 258	15.60	*	no					-0.00096	*	no	1.57	-
31 PCB 39	256	15.83	1086	1.02	2148	0.001462							
	TriCB 258	15.83	1062	yes					-0.00114	4	no	1.32	-
32 PCB 38	256	NotFnd	*	*	*	-0.00104							
	TriCB 258	16.18	*	no					-0.00104	*	no	1.438	-
33 PCB 35	256	NotFnd	*	*	*	-0.00094							
	TriCB 258	16.45	*	no					-0.00094	*	no	1.597	-
34 PCB 37	256	16.70	21632	1	43198	0.028367							
	TriCB 258	16.70	21566	yes					-0.00166	77	no	0.906	-
35 PCB 54	290	NotFnd	*	*	*	-0.00089							
	TCB 292	13.08	*	no					-0.00089	*	no	0.911	-
36 PCB 53/50	290	14.12	8382	0.79	18944	0.025703							
	TCB 292	14.11	10562	yes					-0.00186	57	no	0.654	-
37 PCB 45/51	290	14.48	5062	0.79	11439	0.016046							
	TCB 292	14.49	6377	yes					-0.00192	32	yes	0.633	-
38 PCB 46	290	14.64	2731	0.75	6347	0.010177							
	TCB 292	14.64	3616	yes					-0.00219	19	yes	0.554	-
39 PCB 52	290	15.36	62919	0.81	141103	0.150186							
	TCB 292	15.38	78184	yes					-0.00146	397	no	0.834	-
40 PCB 73	290	NotFnd	*	*	*	-0.00149							
	TCB 292	15.46	*	no					-0.00149	*	no	0.813	-
41 PCB 43	290	15.52	2810	0.72	6707	0.011529							
	TCB 292	15.52	3897	yes					-0.00235	18	no	0.516	-
42 PCB 69/49	290	15.65	27034	0.79	61247	0.063877							
	TCB 292	15.64	34213	yes					-0.00143	179	no	0.851	-

90 PCB 122	326	NotFnd	*	*	*	-0.00086	-0.00086	*	no	1.079	-
	PeCB 328	24.08	*	no				*			
91 PCB 114	326	NotFnd	*	*	*	-0.00091	-0.00091	*	no	1.01	-
	PeCB 328	24.28	*	no				*			
92 PCB 105	326	24.84	15765	1.46	26542	0.020834	-0.00095	58	no	0.977	-
	PeCB 328	24.85	10777	yes				60			
93 PCB 127	326	NotFnd	*	*	*	-0.00075	-0.00075	*	no	1.23	-
	PeCB 328	26.20	*	no				*			
94 PCB 126	326	NotFnd	*	*	*	-0.00095	-0.00095	*	no	0.977	-
	PeCB 328	27.72	*	no				*			
95 PCB 155	360	NotFnd	*	*	*	-0.00109	-0.00109	*	no	0.997	-
	HxCB 362	19.63	*	no				*			
96 PCB 152	360	NotFnd	*	*	*	-0.00133	-0.00133	*	no	0.813	-
	HxCB 362	19.78	*	no				*			
97 PCB 150	360	NotFnd	*	*	*	-0.00167	-0.00167	*	no	0.65	-
	HxCB 362	19.88	*	no				*			
98 PCB 136	360	20.18	6387	1.25	11486	0.013885	-0.00142	38	no	0.761	-
	HxCB 362	20.17	5100	yes				37			
99 PCB 145	360	NotFnd	*	*	*	-0.00164	-0.00164	*	no	0.662	-
	HxCB 362	20.41	*	no				*			
100 PCB 148	360	NotFnd	*	*	*	-0.00196	-0.00196	*	no	0.551	-
	HxCB 362	21.55	*	no				*			
101 PCB 151/135	360	22.03	19295	1.39	33165	0.058784	-0.00209	89	no	0.519	-
	HxCB 362	22.04	13870	yes				80			
102 PCB 154	360	22.22	1279	1.34	2232	0.003323	-0.00175	7	no	0.618	-
	HxCB 362	22.21	953	yes				7			
103 PCB 144	360	22.51	2560	1.27	4568	0.007476	-0.00193	14	yes	0.562	-
	HxCB 362	22.51	2009	yes				14			
104 PCB 147/149	360	22.79	59982	1.31	105726	0.146885	-0.0026	209	yes	0.662	-
	HxCB 362	22.80	45743	yes				191			
105 PCB 134/143	360	22.97	1768	1.27	3158	0.004959	-0.00294	6	no	0.586	-
	HxCB 362	23.06	1390	yes				6			
106 PCB 139/140	360	NotFnd	*	*	*	-0.00253	-0.00253	*	no	0.68	-
	HxCB 362	23.31	*	no				*			
107 PCB 131	360	NotFnd	*	*	*	-0.00321	-0.00321	*	no	0.537	-
	HxCB 362	23.49	*	no				*			
108 PCB 142	360	NotFnd	*	*	*	-0.00275	-0.00275	*	no	0.626	-
	HxCB 362	23.65	*	no				*			
109 PCB 132	360	23.88	8647	1.33	15145	0.024869	-0.00307	27	no	0.561	-
	HxCB 362	23.88	6498	yes				25			
110 PCB 133	360	24.31	1494	1.4	2562	0.003589	-0.00262	4	no	0.657	-
	HxCB 362	24.31	1067	yes				4			
111 PCB 165	360	NotFnd	*	*	*	-0.00225	-0.00225	*	no	0.765	-
	HxCB 362	24.66	*	no				*			
112 PCB 146	360	24.88	15436	1.22	28084	0.03667	-0.00244	46	no	0.705	-
	HxCB 362	24.86	12648	yes				47			
113 PCB 161	360	NotFnd	*	*	*	-0.00178	-0.00178	*	no	0.97	-
	HxCB 362	25.01	*	no				*			
114 PCB 153/168	360	25.43	134025	1.31	236031	0.25492	-0.00202	406	no	0.852	-
	HxCB 362	25.45	102005	yes				384			
115 PCB 141	360	25.61	2678	1.23	4860	0.006565	-0.00253	7	no	0.681	-
	HxCB 362	25.60	2182	yes				7			
116 PCB 130	360	26.00	3338	1.37	5778	0.00862	-0.00279	10	no	0.617	-
	HxCB 362	25.99	2440	yes				10			
117 PCB 137	360	26.21	796	1.26	1427	-0.00284	-0.00284	*	yes	0.607	-
	HxCB 362	26.19	631	no				*			
118 PCB 164	360	26.30	2498	1.18	4618	0.004655	-0.00189	7	yes	0.913	-
	HxCB 362	26.28	2120	yes				7			
119 PCB 138/163/129	360	26.59	96062	1.31	169524	0.221445	-0.00244	269	no	0.705	-
	HxCB 362	26.60	73462	yes				258			
120 PCB 160	360	NotFnd	*	*	*	-0.0021	-0.0021	*	no	0.822	-
	HxCB 362	26.78	*	no				*			
121 PCB 158	360	26.96	8881	1.23	16084	0.014738	-0.00172	25	no	1.004	-
	HxCB 362	26.96	7203	yes				26			
122 PCB 128/166	360	27.80	9771	1.23	17717	0.021071	-0.00223	25	no	0.774	-
	HxCB 362	27.78	7947	yes				24			
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	4568	1.28	8145	0.006207	-0.00122	17	no	0.946	-
	HxCB 362	29.52	3577	yes				17			
126 PCB 156/157	360	30.68	8904	1.27	15920	0.011806	-0.00114	29	no	1.017	-
	HxCB 362	30.71	7016	yes				29			
127 PCB 169	360	NotFnd	*	*	*	-0.00121	-0.00121	*	no	0.954	-
	HxCB 362	34.11	*	no				*			
128 PCB 188	394	NotFnd	*	*	*	-0.00122	-0.00122	*	no	1.012	-
	HpCB 396	24.22	*	no				*			
129 PCB 179	394	24.52	8347	1.06	16218	0.017567	-0.00118	44	no	1.047	-
	HpCB 396	24.51	7871	yes				44			
130 PCB 184	394	NotFnd	*	*	*	-0.00129	-0.00129	*	no	0.961	-
	HpCB 396	25.00	*	no				*			
131 PCB 176	394	25.32	2247	1.03	4420	0.004881	-0.00121	12	no	1.027	-
	HpCB 396	25.31	2173	yes				12			
132 PCB 186	394	NotFnd	*	*	*	-0.00138	-0.00138	*	no	0.899	-
	HpCB 396	25.75	*	no				*			
133 PCB 178	394	27.01	3920	1.11	7447	0.011698	-0.00172	20	no	0.722	-
	HpCB 396	27.01	3527	yes				19			
134 PCB 175	394	NotFnd	*	*	*	-0.00165	-0.00165	*	no	0.753	-
	HpCB 396	27.61	*	no				*			
135 PCB 187	394	27.87	24715	1.06	47937	0.07519	-0.00171	124	no	0.723	-
	HpCB 396	27.88	23222	yes				121			
136 PCB 182	394	NotFnd	*	*	*	-0.00166	-0.00166	*	no	0.747	-
	HpCB 396	28.10	*	no				*			

184 PCB 188L	406	24.20	73749	1.1	140960	0.142805	0	4759	no	1.329	72
	408	24.20	67211	yes				3270			
185 PCB 180L	406	32.09	74304	1.06	144119	0.138807	0	2091	no	1.349	70
	408	32.09	69815	yes				2549			
186 PCB 170L	406	33.41	66749	1.1	127312	0.14012	0	1832	no	1.18	71
	408	33.42	60563	yes				2129			
187 PCB 189L	406	36.84	144919	1.05	282847	0.170297	0	3711	no	2.157	86
	408	36.83	137929	yes				2162			
188 PCB 202L	440	29.25	61828	0.93	128510	0.117593	0	2414	no	1.419	60
	442	29.27	66682	yes				3489			
189 PCB 205L	440	39.71	97851	0.94	202365	0.171647	0	2462	no	1.531	87
	442	39.73	104514	yes				1340			
190 PCB 208L	474	36.27	53494	0.78	122391	0.139517	0	1955	no	1.139	71
	476	36.28	68898	yes				2243			
191 PCB 206L	474	41.70	41747	0.84	91611	0.156658	0	1429	no	0.76	79
	476	41.73	49864	yes				1597			
192 PCB 209L	510	43.54	45751	1.2	83835	0.150334	0	2969	no	0.724	76
	512	43.53	38084	yes				4664			
193 PCB 28L	268	14.40	205258	1.02	405689	0.240568	0.001	654	no	2.039	110
PCB Cleanup Standard	270	14.43	200431	yes				1185			
194 PCB 111L	338	21.83	129937	1.63	209671	0.213428	0	7751	no	1.343	98
PCB Cleanup Standard	340	21.84	79734	yes				2015			
195 PCB 178L	406	26.98	54404	1.05	106250	0.19524	0	3278	no	0.733	89
PCB Cleanup Standard	408	26.97	51846	yes				2308			
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	2518	1.3	4452	0.004894	0	79	no	1.225	2
PCB Audit Standard	374	25.40	1935	yes				91			
199 PCB 9L	234	11.17	1242877	1.63	2006868	10.15679	-	14080	no	-	-
PCB Recovery Standard	236	11.19	763991	yes				28874			
200 PCB 52L	302	15.36	404683	0.81	905884	7.086131	-	6029	no	-	-
PCB Recovery Standard	304	15.36	501201	yes				7912			
201 PCB 101L	338	19.77	497075	1.63	801300	7.203416	-	31478	no	-	-
PCB Recovery Standard	340	19.76	304225	yes				8131			
202 PCB 138L	372	26.57	462859	1.32	813391	7.460174	-	17049	no	-	-
PCB Recovery Standard	374	26.56	350532	yes				16892			
203 PCB 194L	440	39.18	407546	0.94	843404	7.702536	-	10409	no	-	-
PCB Recovery Standard	442	39.17	435858	yes				5621			
Chlorobiphenyls						-0.00063	0	-0.00063			
Dichlorobiphenyls						0.033439	3	-0.00437			
Trichlorobiphenyls						0.500344	13	-0.00211			
Tetrachlorobiphenyls						0.766873	19	-0.00235			
Pentachlorobiphenyls						0.446811	16	-0.00161			
Hexachlorobiphenyls						0.850467	18	-0.00321			
Heptachlorobiphenyls						0.27317	11	-0.00193			
Octachlorobiphenyls						0.013379	3	-0.00316			
Nonachlorobiphenyls						-0.0027	0	-0.0027			
Decachlorobiphenyl						-0.00206	0	-0.00206			
PCB (total)						2.884483					

Acquired Date

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Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

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

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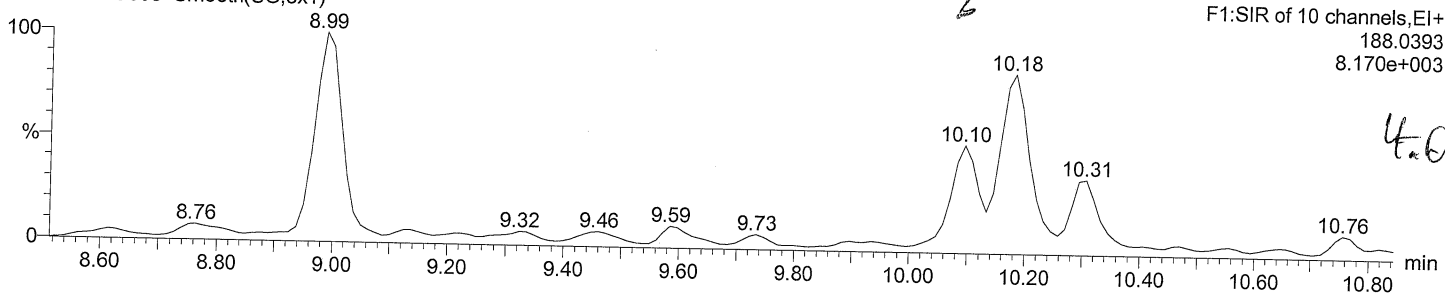
Vial: 8

Date: 18-FEB-2016

Time: 00:18:49

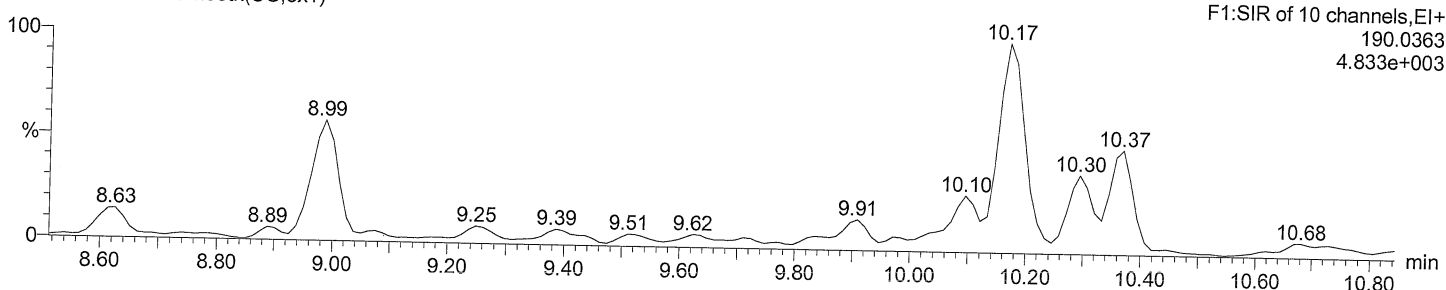
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M2160218DS008 Smooth(SG,3x1)



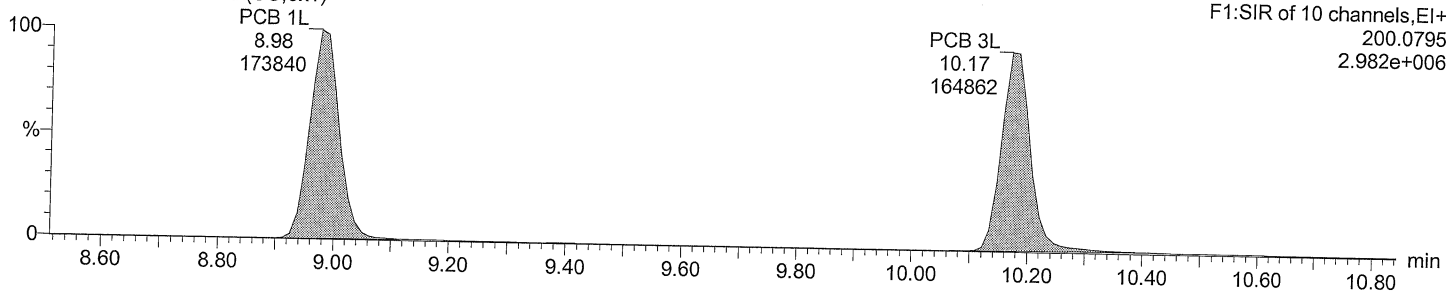
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M2160218DS008 Smooth(SG,3x1)



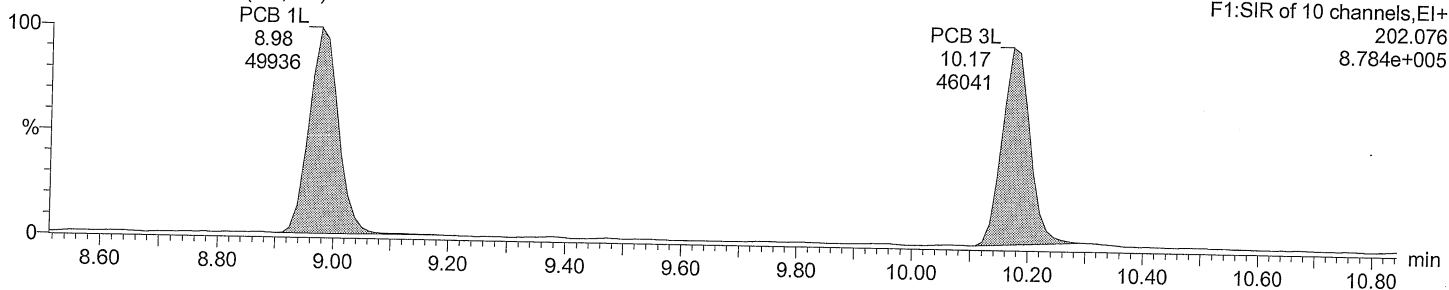
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M2160218DS008 Smooth(SG,3x1)



Total MoCB labeled F1

M2160218DS008 Smooth(SG,3x1)



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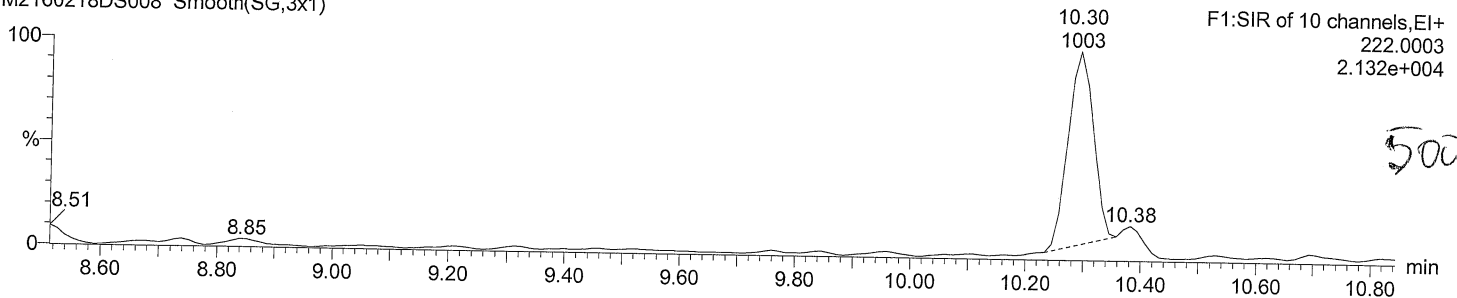
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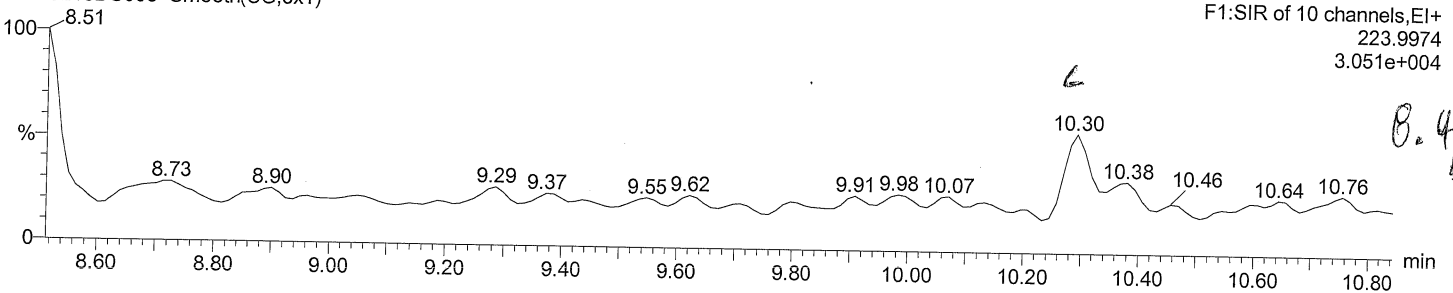
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M2160218DS008 Smooth(SG,3x1)



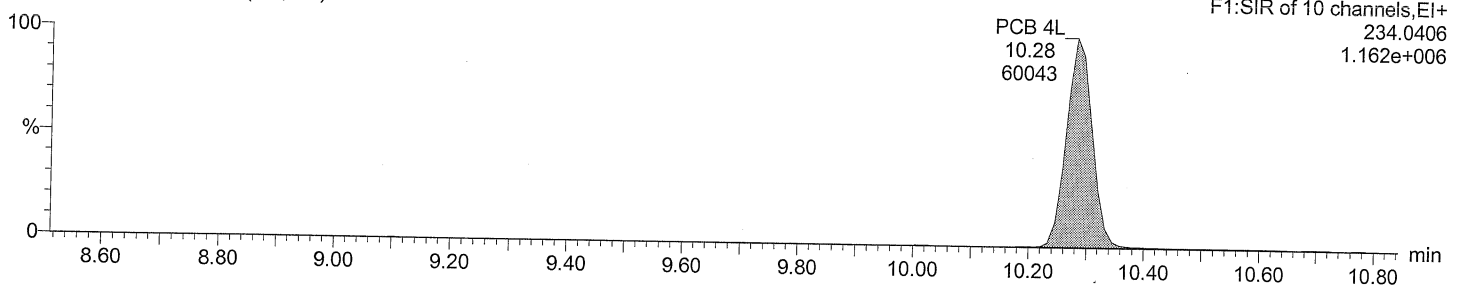
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M2160218DS008 Smooth(SG,3x1)



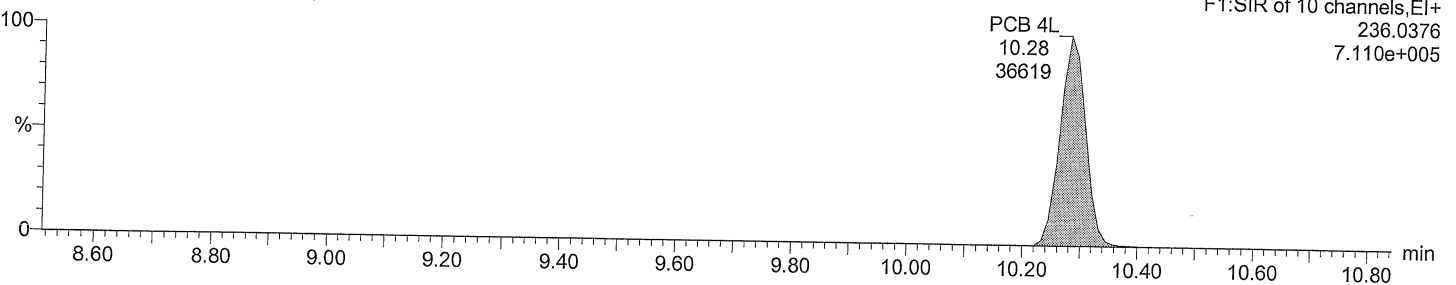
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M2160218DS008 Smooth(SG,3x1)



Total DiCB labeled F1

M2160218DS008 Smooth(SG,3x1)



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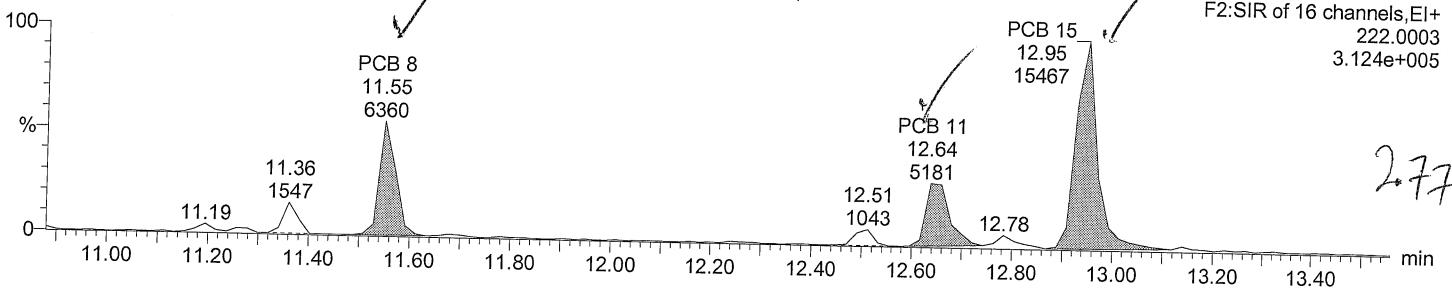
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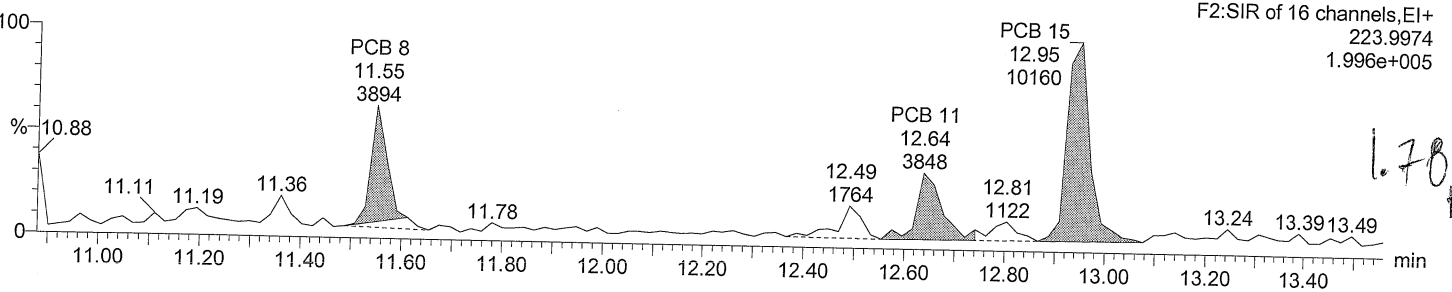
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M2160218DS008



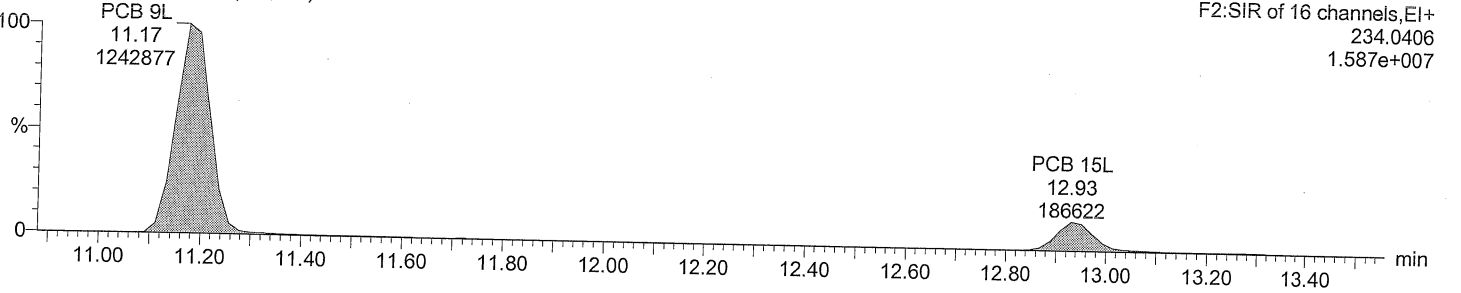
Total DiCB F2

M2160218DS008



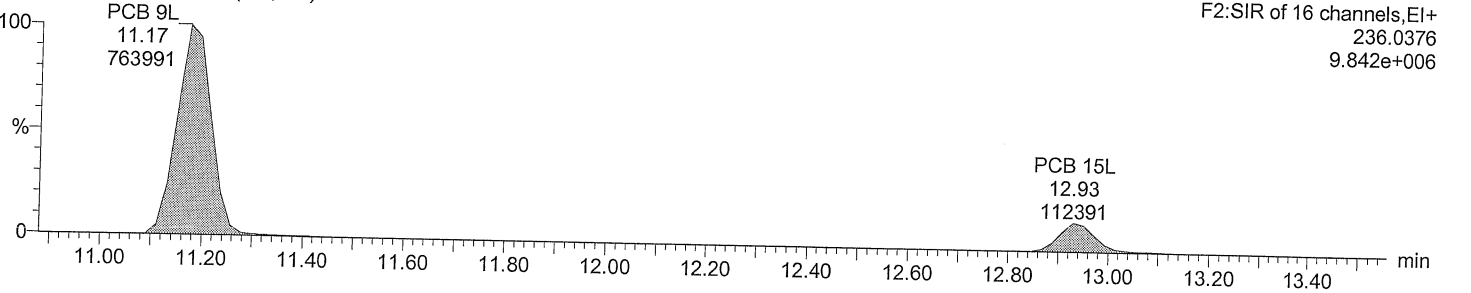
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M2160218DS008 Smooth(SG,3x1)



Total DiCB labeled F2

M2160218DS008 Smooth(SG,3x1)

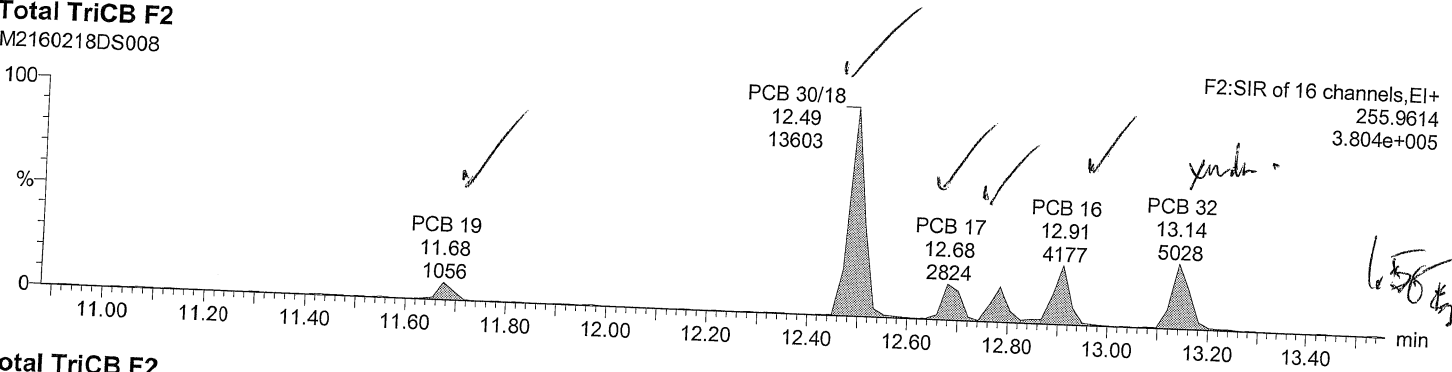


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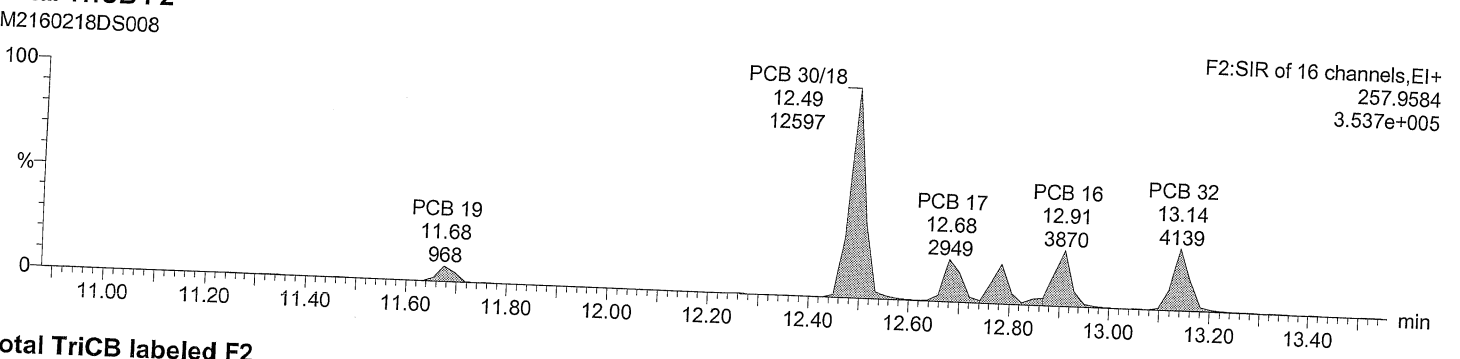
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ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti
Description: BRP509-01R
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Date: 18-FEB-2016
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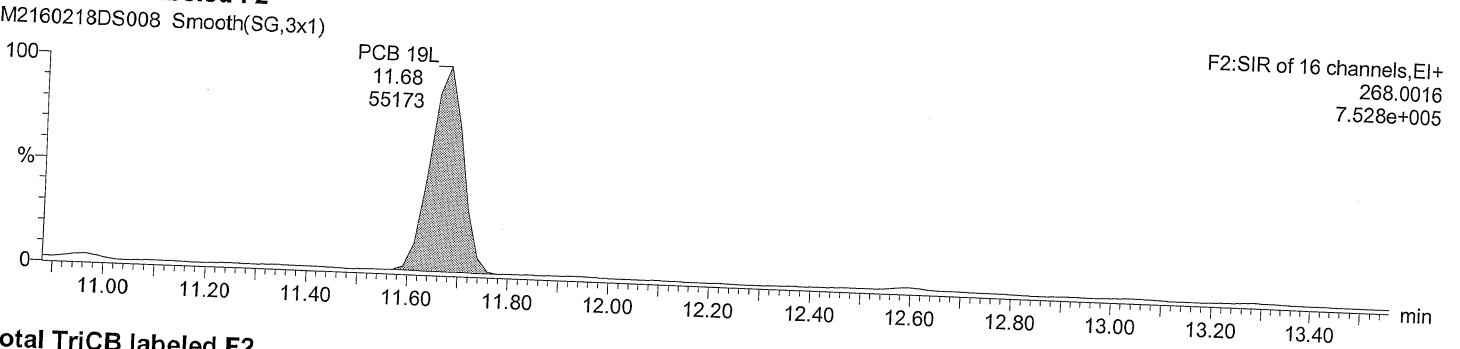
Total TriCB F2
M2160218DS008



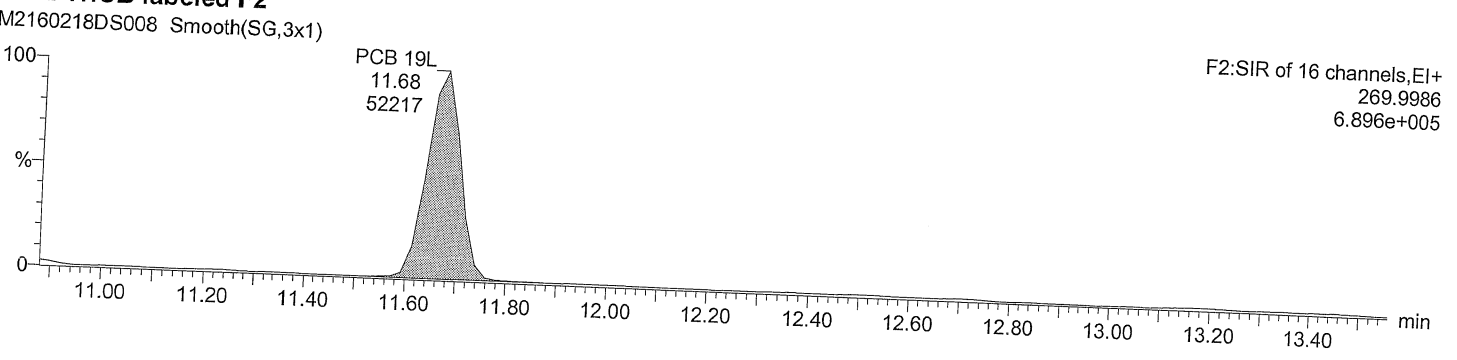
Total TriCB F2
M2160218DS008



Total TriCB labeled F2
M2160218DS008 Smooth(SG,3x1)



Total TriCB labeled F2
M2160218DS008 Smooth(SG,3x1)



Acquired Date

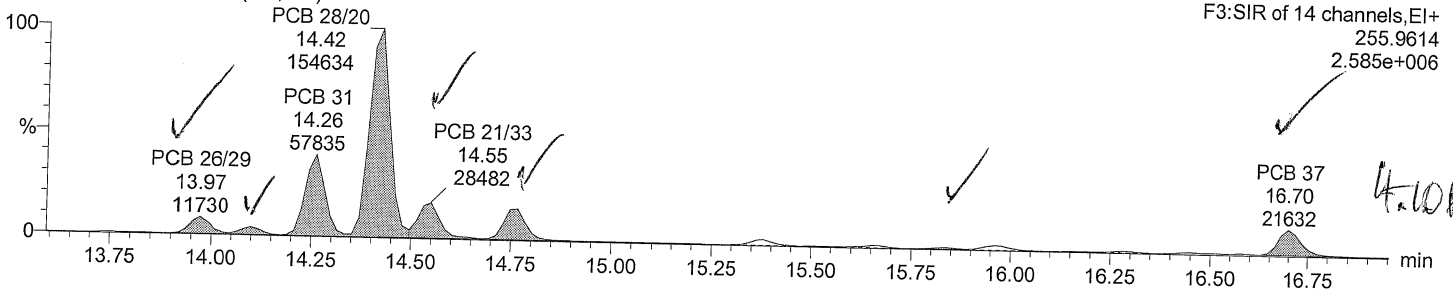
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Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

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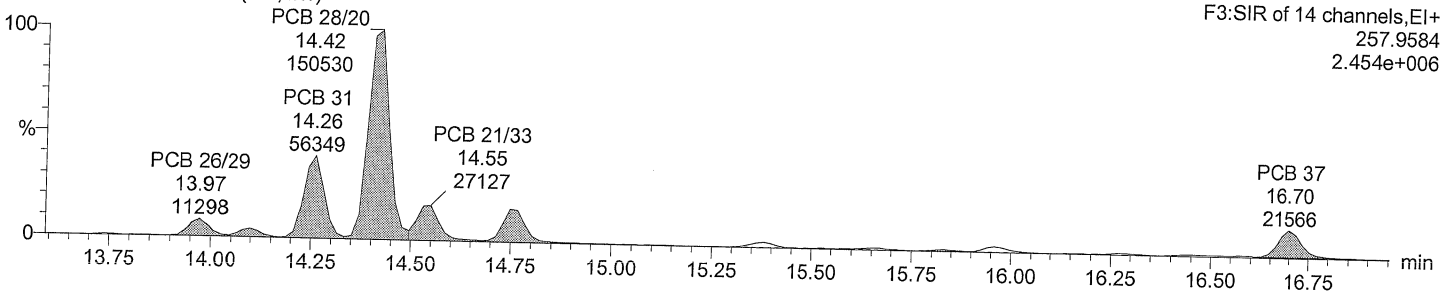
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M2160218DS008 Smooth(SG,1x1)



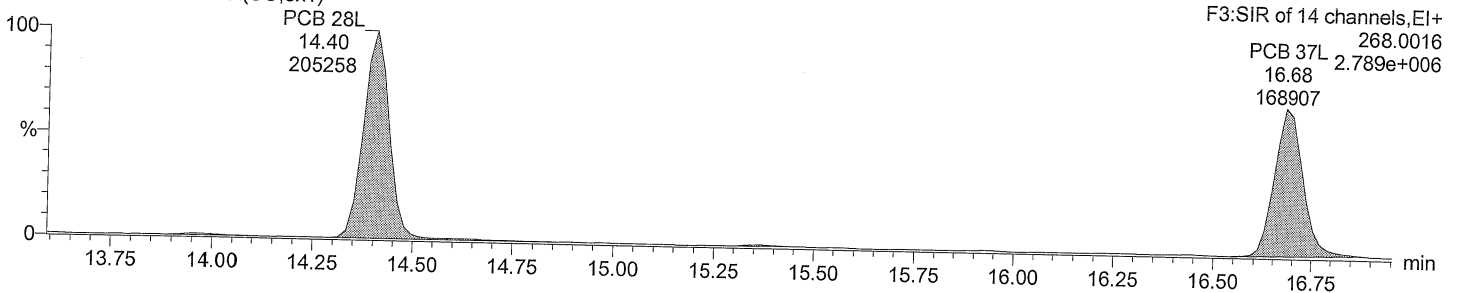
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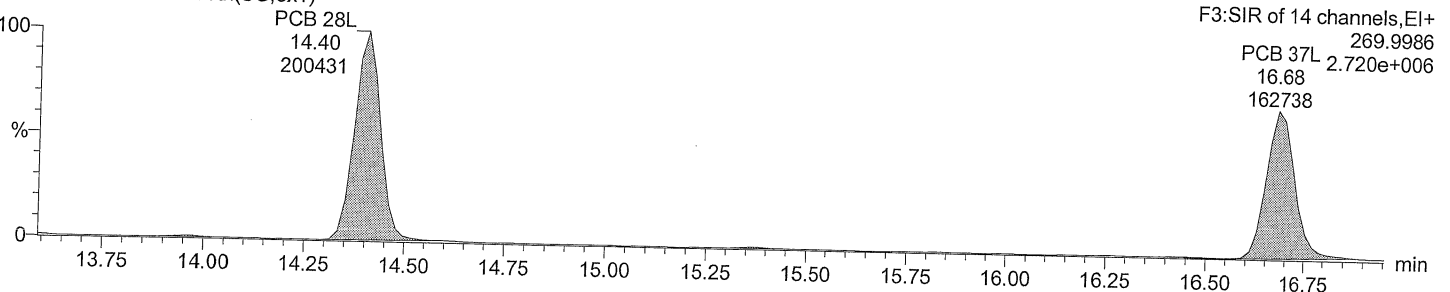
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Total TriCB labeled F3

M2160218DS008 Smooth(SG,3x1)



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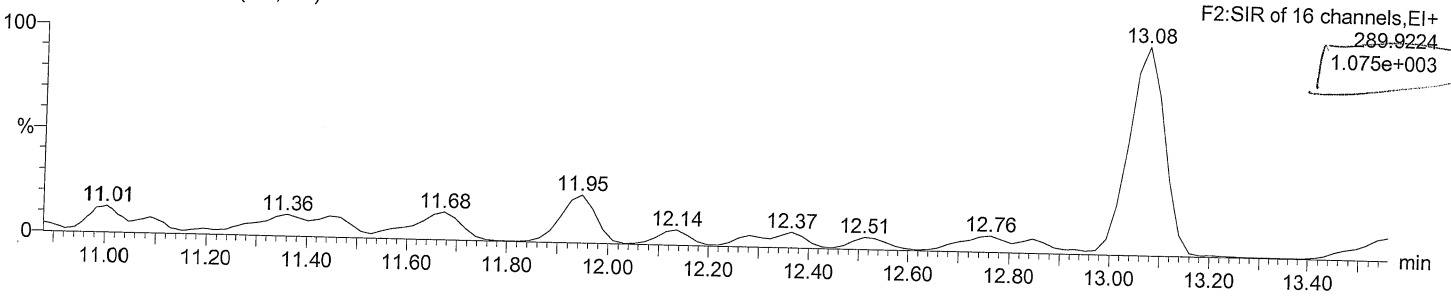
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Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

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Vial: 8
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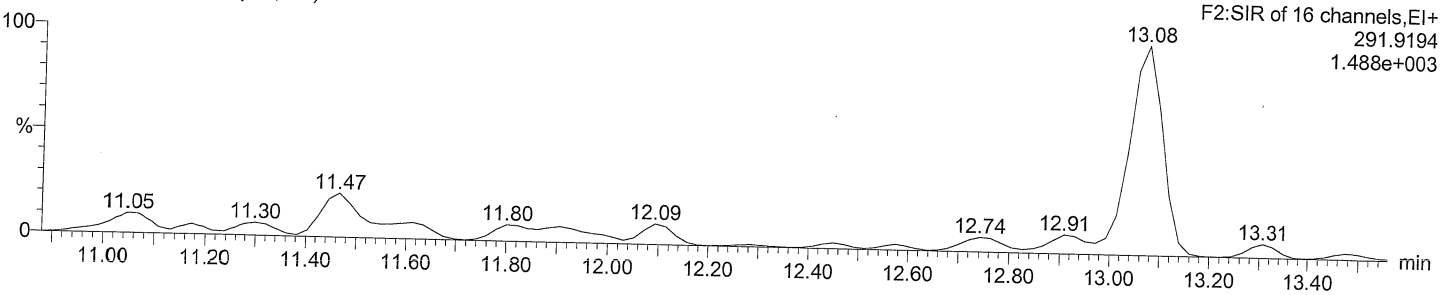
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M2160218DS008 Smooth(SG,3x1)



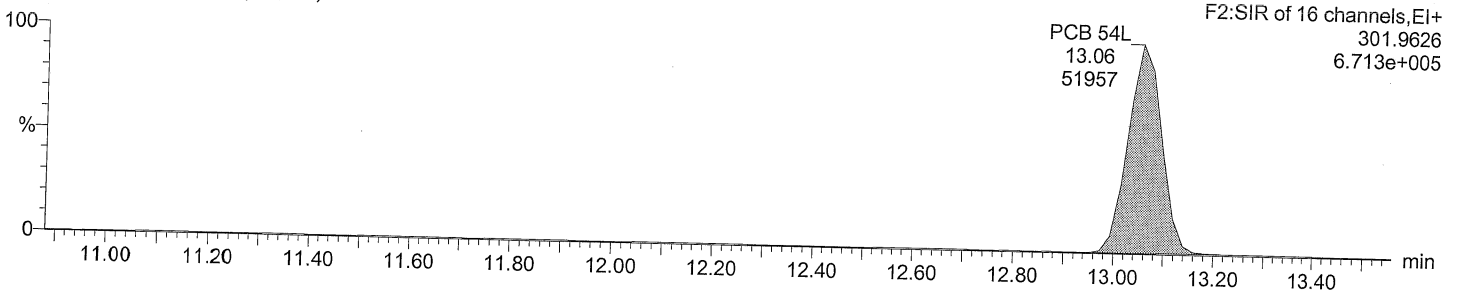
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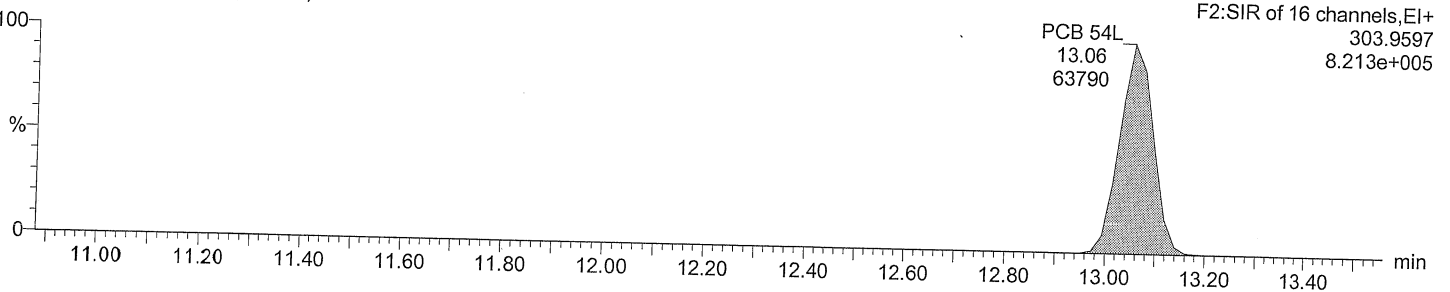
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M2160218DS008 Smooth(SG,3x1)



Total TeCB labeled F2

M2160218DS008 Smooth(SG,3x1)



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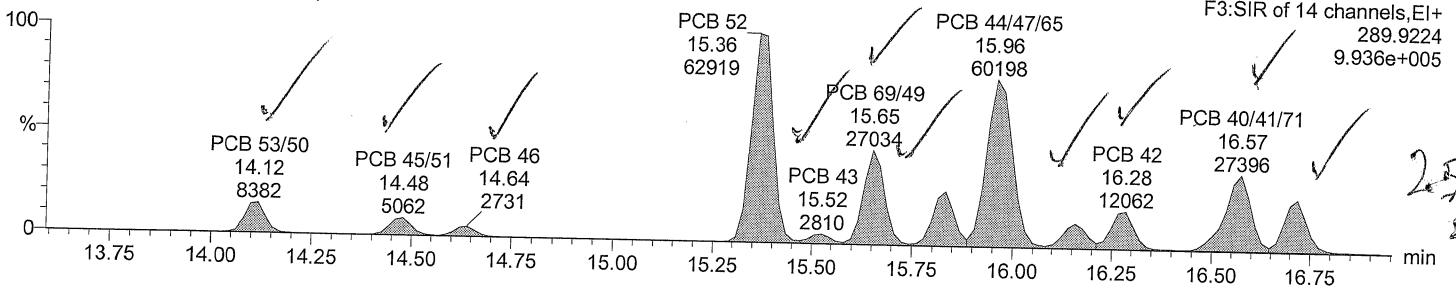
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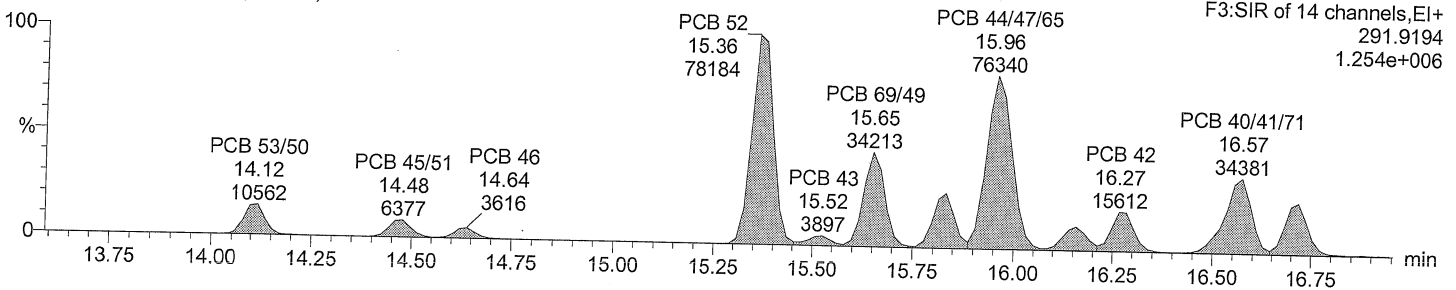
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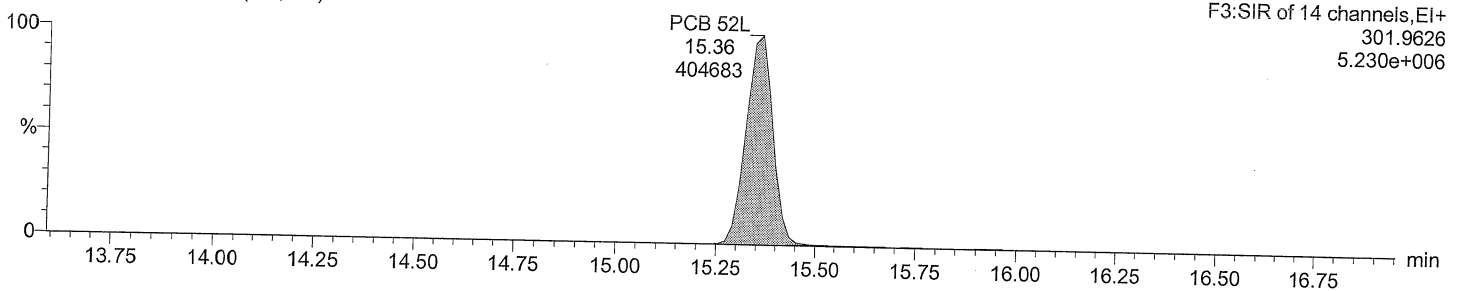
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M2160218DS008 Smooth(SG,1x1)



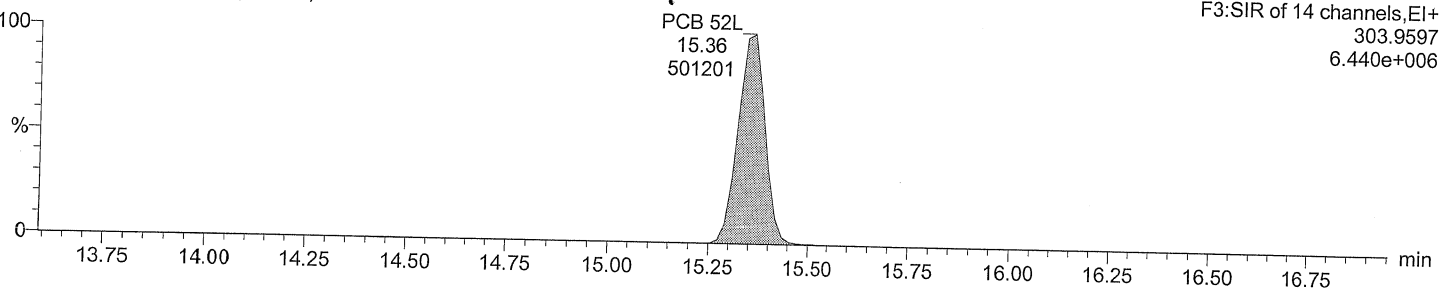
Total TeCB labeled F3

M2160218DS008 Smooth(SG,3x1)



Total TeCB labeled F3

M2160218DS008 Smooth(SG,3x1)

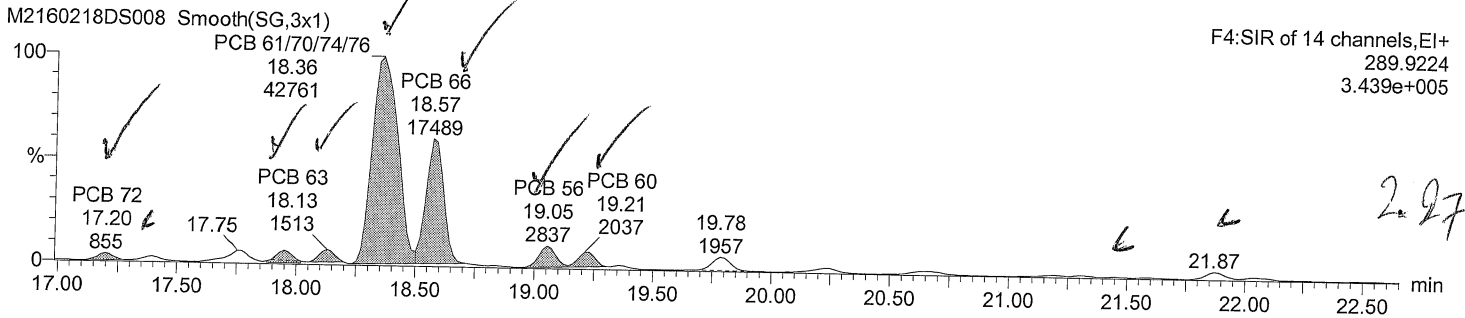


Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

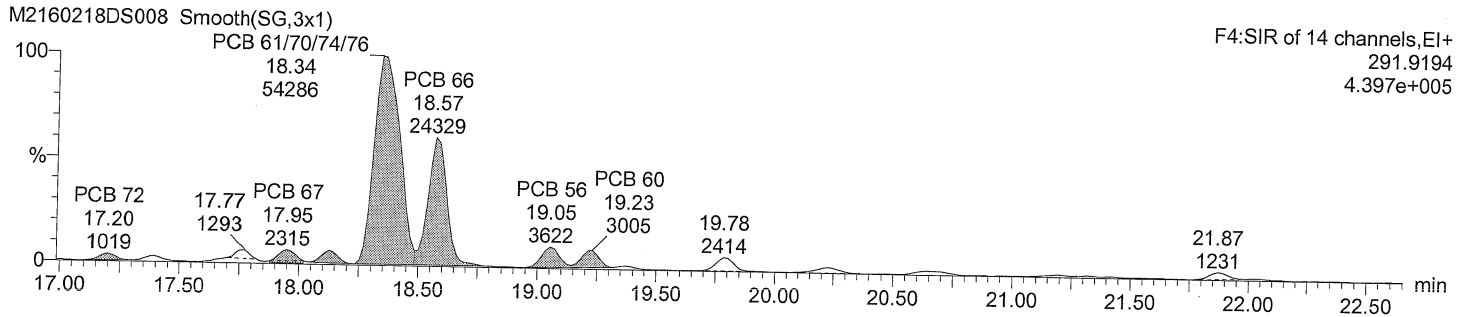
Last Altered: February 20, 2016 11:26:26 AM Eastern Standard Time
Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti
Description: BRP509-01R
Vial: 8
Date: 18-FEB-2016
Time: 00:18:49

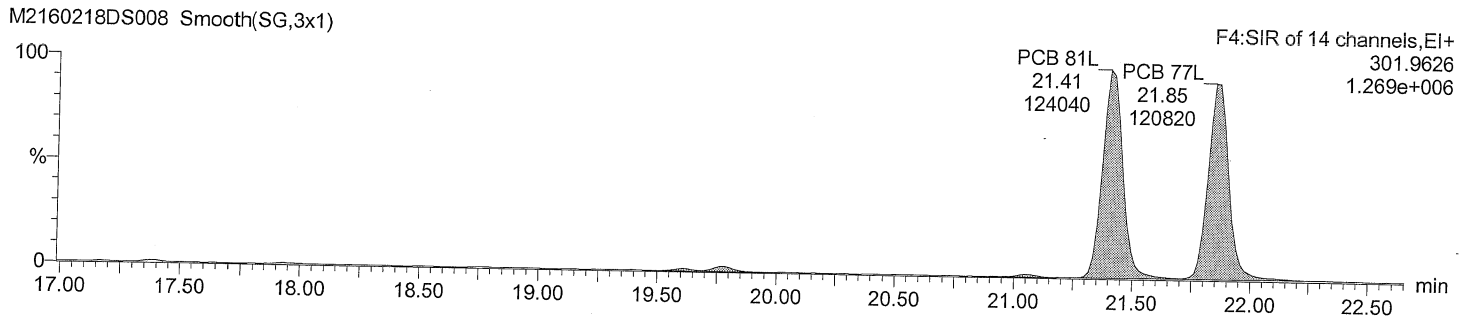
Total TeCB F4



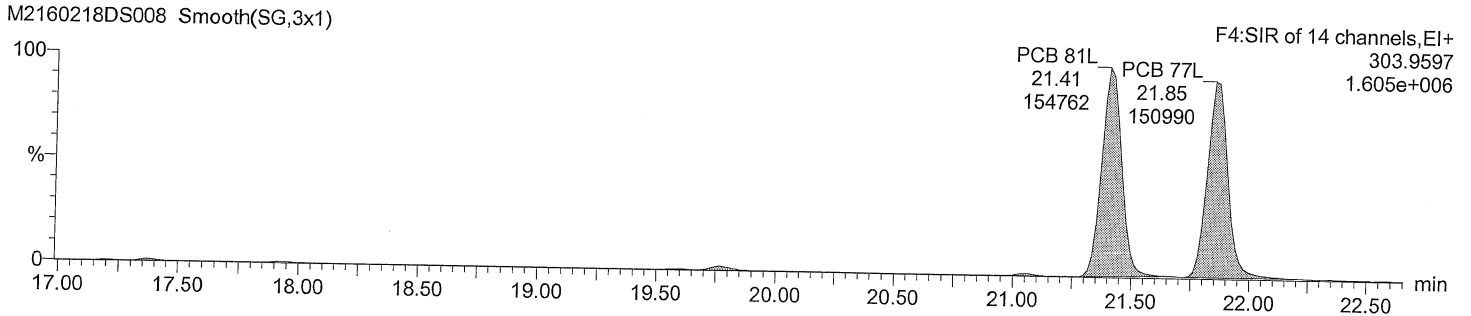
Total TeCB F4



Total TeCB labeled F4



Total TeCB labeled F4



Acquired Date

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

Last Altered: February 20, 2016 11:26:26 AM Eastern Standard Time
Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

Description: BRP509-01R

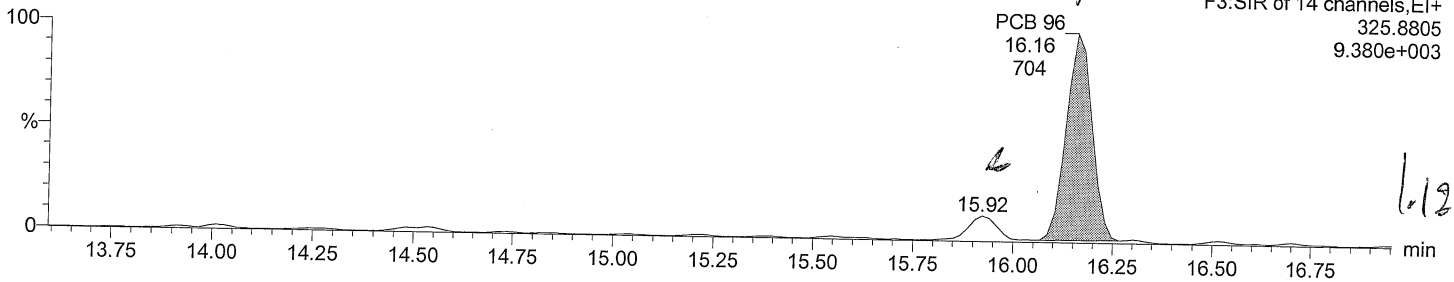
Vial: 8

Date: 18-FEB-2016

Time: 00:18:49

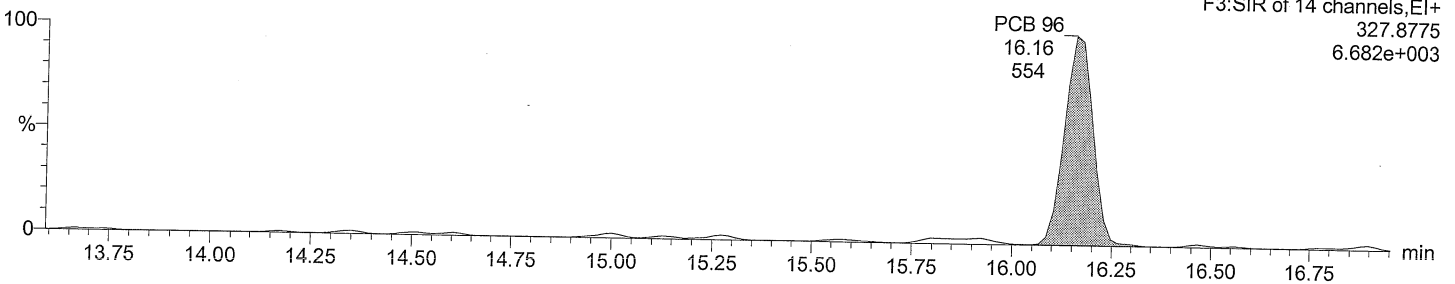
Total PeCB F3

M2160218DS008 Smooth(SG,3x1)



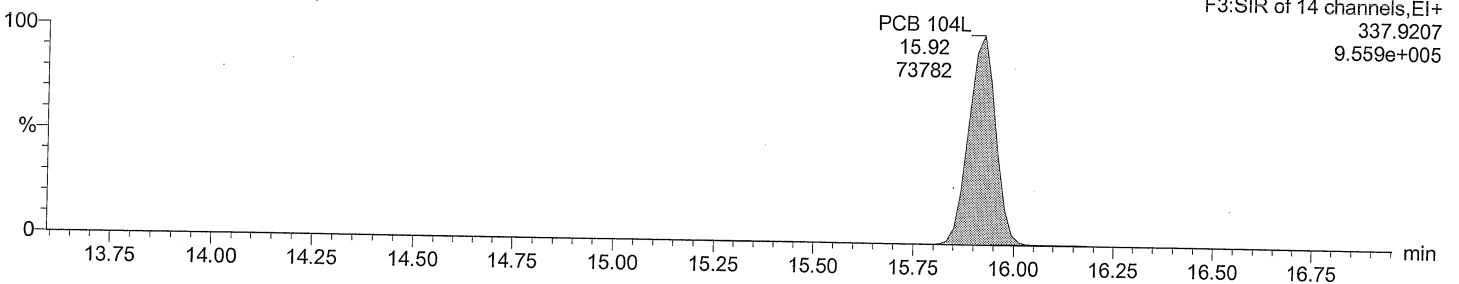
Total PeCB F3

M2160218DS008 Smooth(SG,3x1)



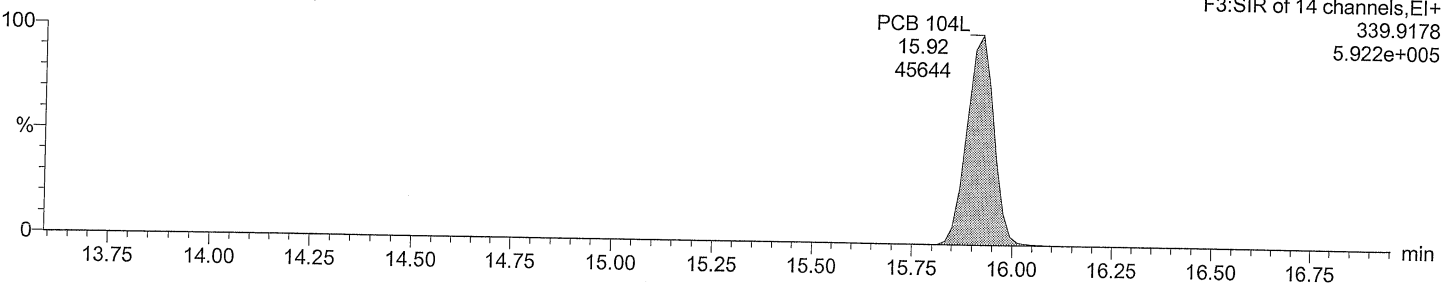
Total PeCB labeled F3

M2160218DS008 Smooth(SG,3x1)



Total PeCB labeled F3

M2160218DS008 Smooth(SG,3x1)



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 11:26:26 AM Eastern Standard Time
Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

Description: BRP509-01R

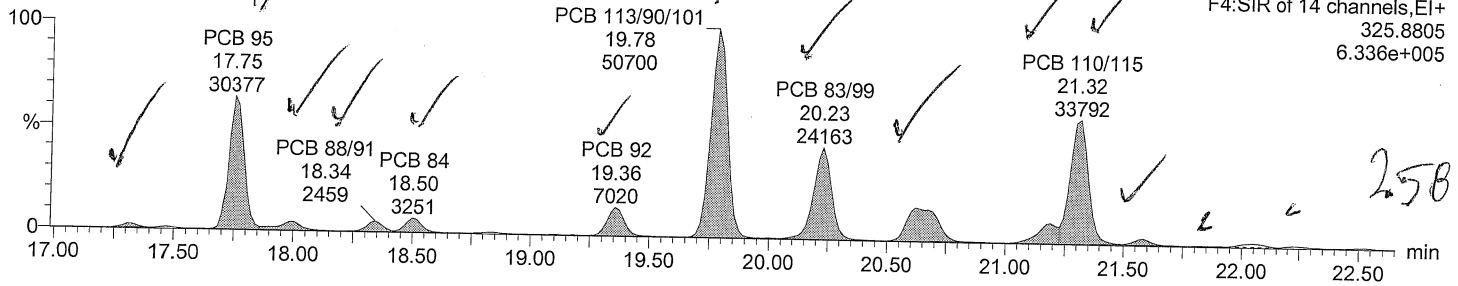
Vial: 8

Date: 18-FEB-2016

Time: 00:18:49

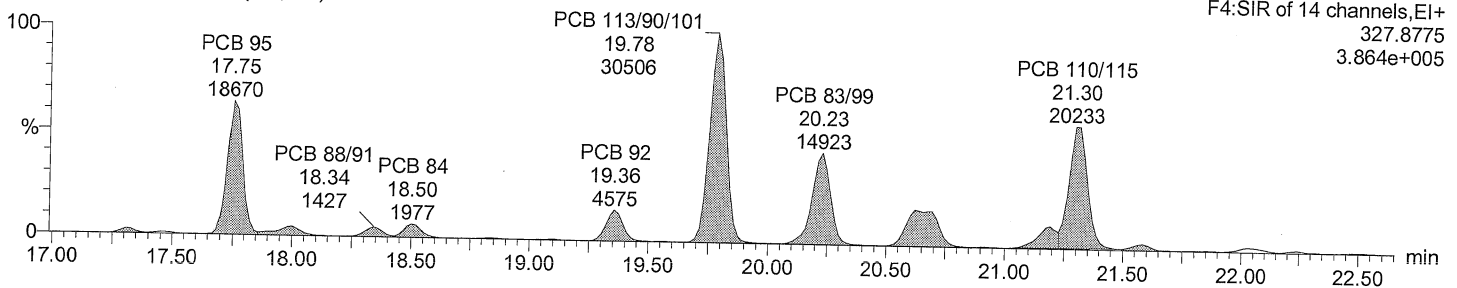
Total PeCB F4

M2160218DS008 Smooth(SG,2x1)



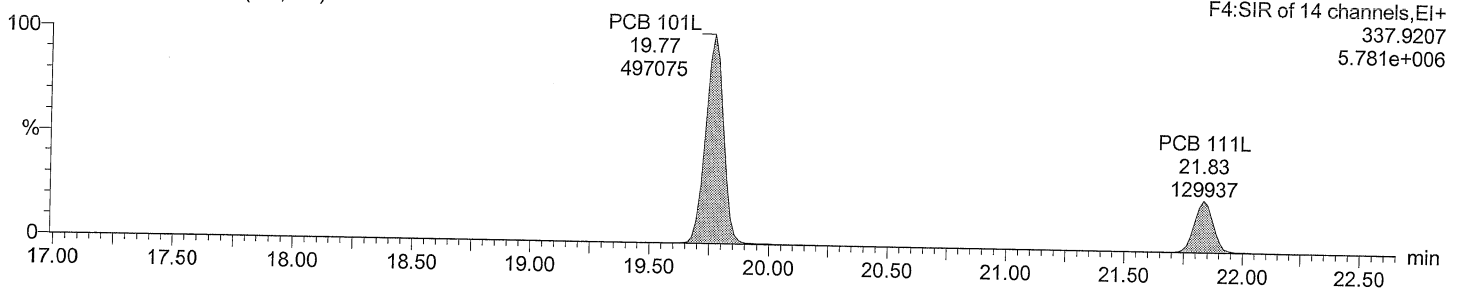
Total PeCB F4

M2160218DS008 Smooth(SG,2x1)



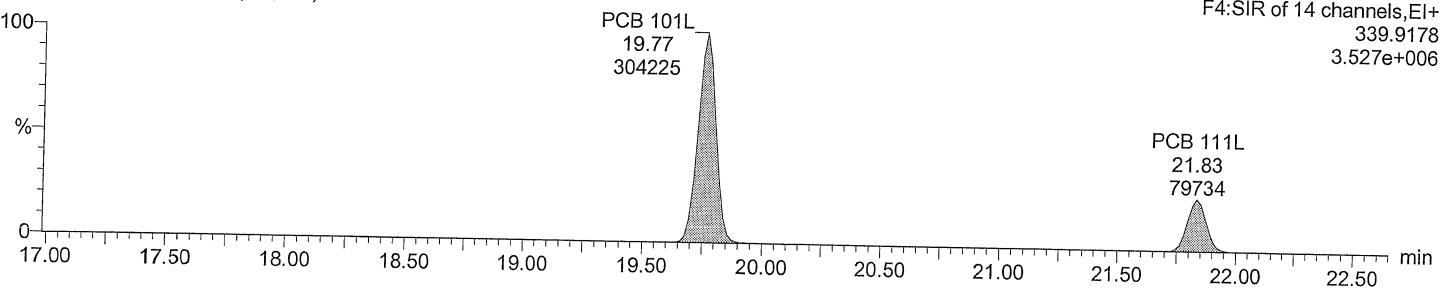
Total PeCB labeled F4

M2160218DS008 Smooth(SG,3x1)



Total PeCB labeled F4

M2160218DS008 Smooth(SG,3x1)



Acquired Date

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

Last Altered: February 20, 2016 11:26:26 AM Eastern Standard Time

Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

Description: BRP509-01R

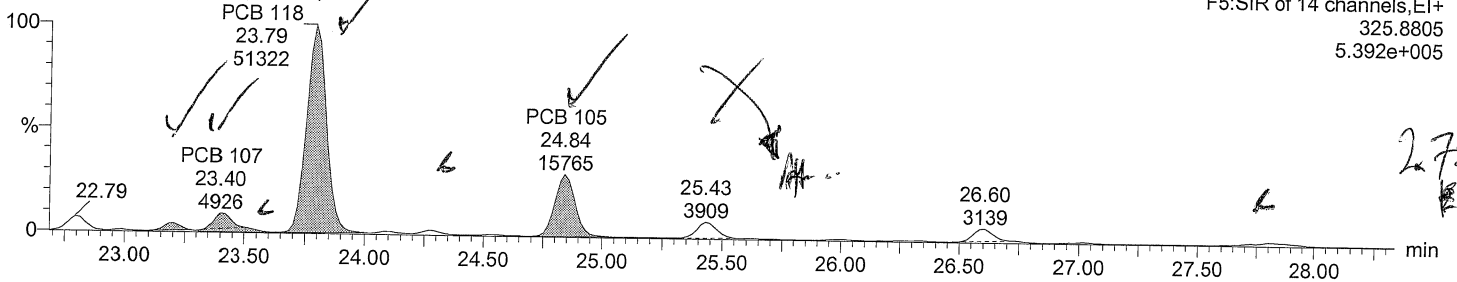
Vial: 8

Date: 18-FEB-2016

Time: 00:18:49

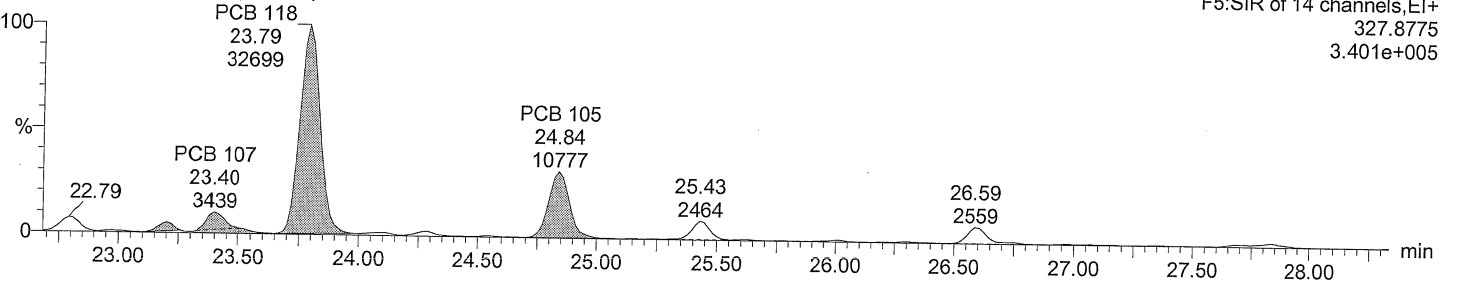
Total PeCB F5

M2160218DS008 Smooth(SG,2x1)



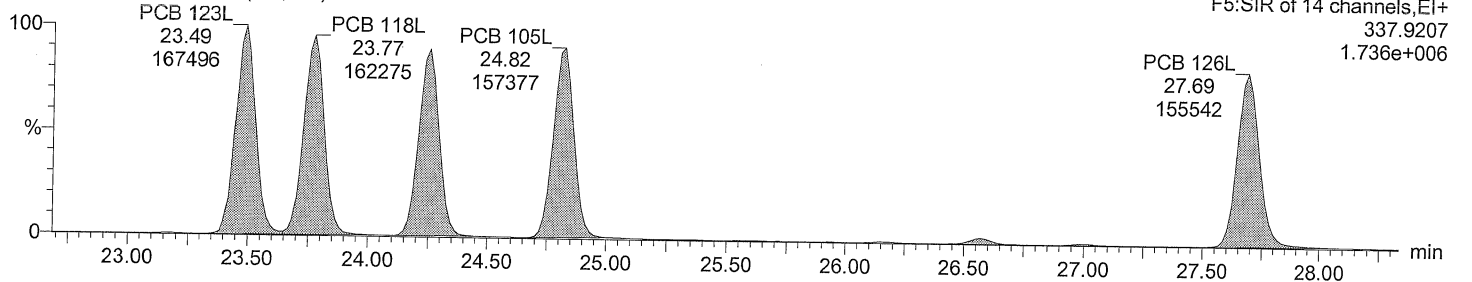
Total PeCB F5

M2160218DS008 Smooth(SG,2x1)



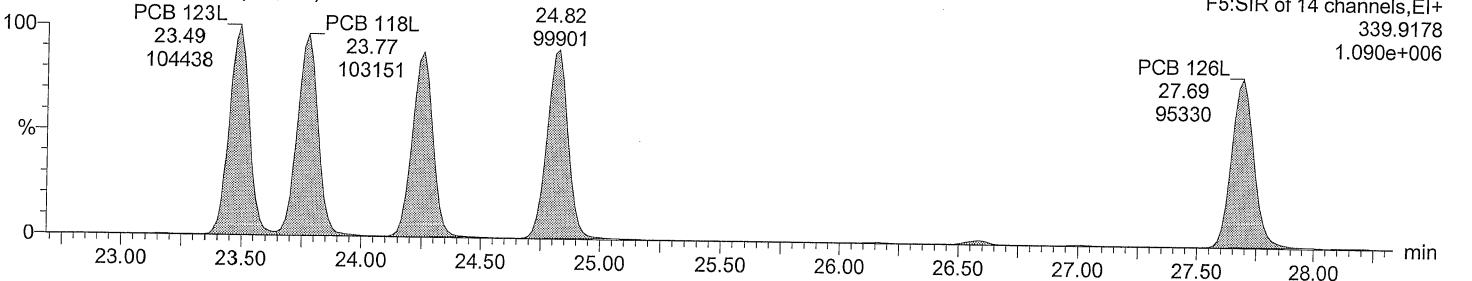
Total PeCB labeled F5

M2160218DS008 Smooth(SG,3x1)



Total PeCB labeled F5

M2160218DS008 Smooth(SG,3x1)



Acquired Date

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

Last Altered: February 20, 2016 11:26:26 AM Eastern Standard Time

Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

Description: BRP509-01R

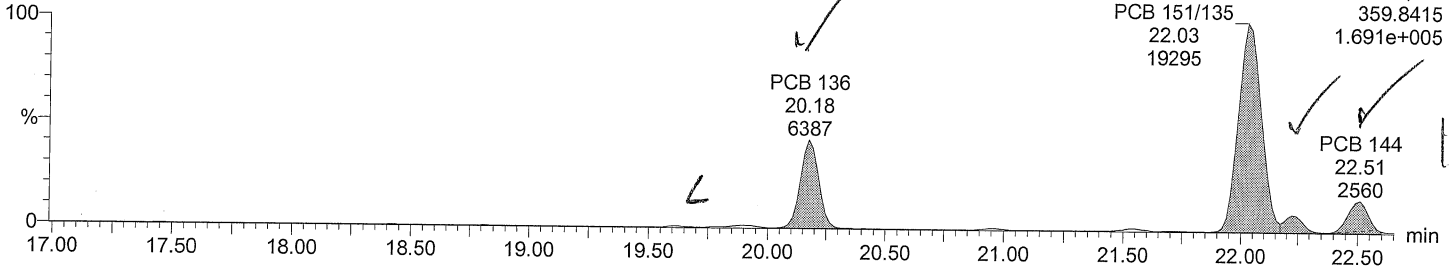
Vial: 8

Date: 18-FEB-2016

Time: 00:18:49

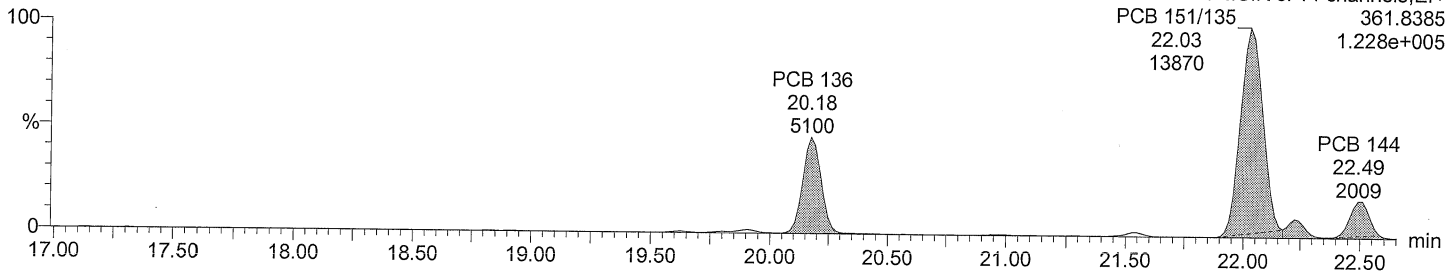
Total HxCB F4

M2160218DS008 Smooth(SG,3x1)



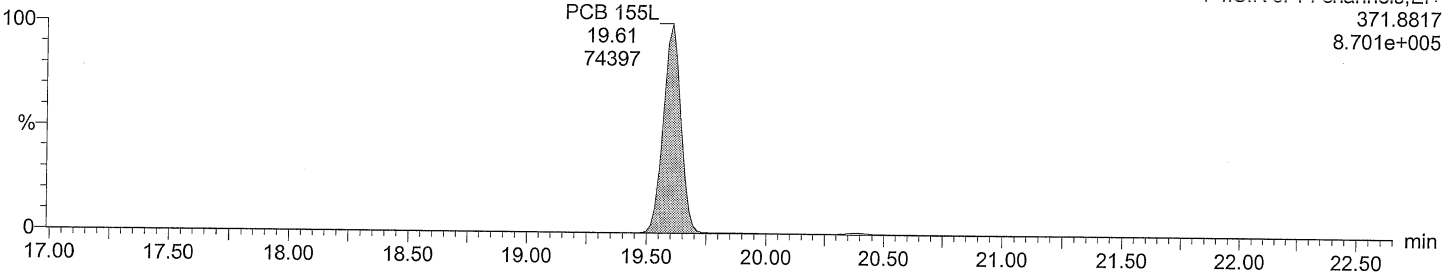
Total HxCB F4

M2160218DS008 Smooth(SG,3x1)



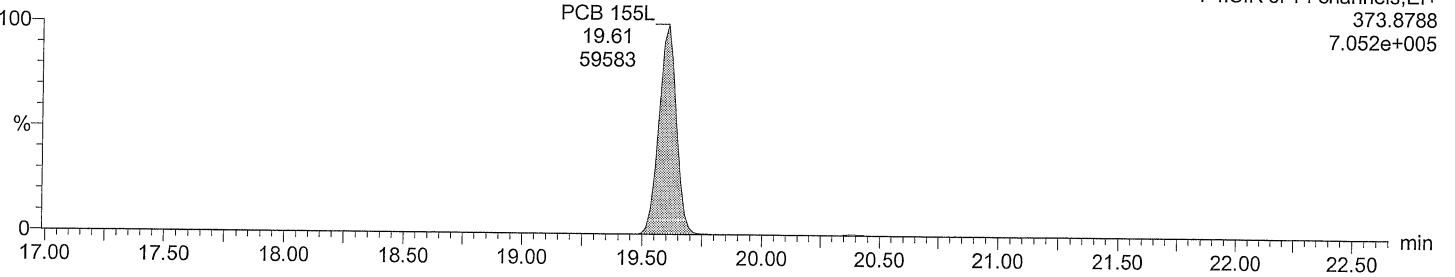
Total HxCB labeled F4

M2160218DS008 Smooth(SG,3x1)



Total HxCB labeled F4

M2160218DS008 Smooth(SG,3x1)



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 11:26:26 AM Eastern Standard Time

Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

Description: BRP509-01R

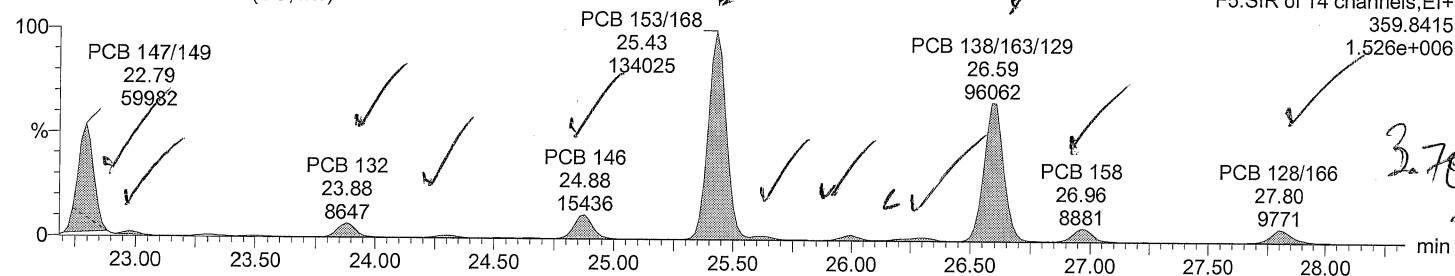
Vial: 8

Date: 18-FEB-2016

Time: 00:18:49

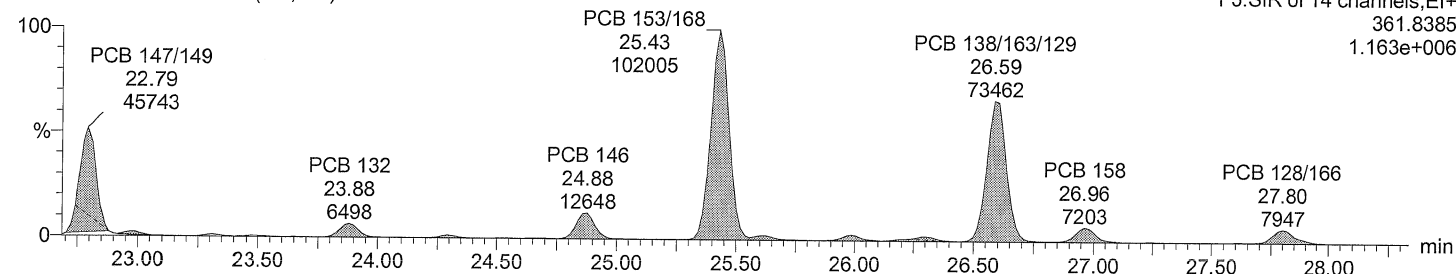
Total HxCB F5

M2160218DS008 Smooth(SG,1x1)



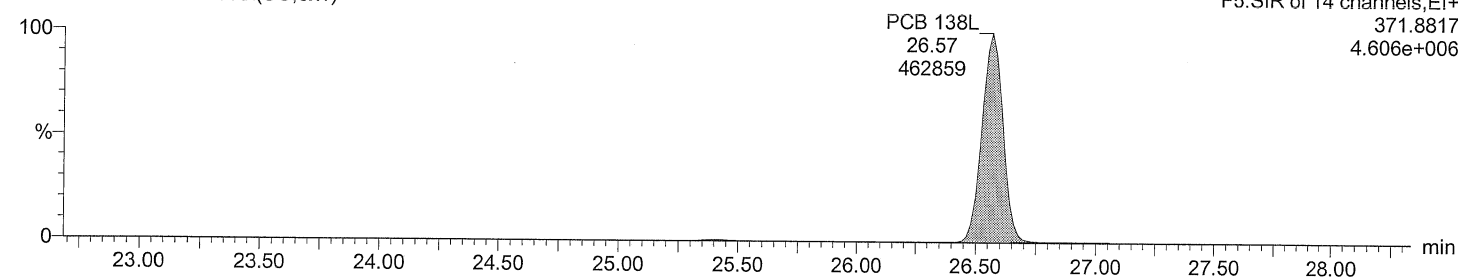
Total HxCB F5

M2160218DS008 Smooth(SG,1x1)



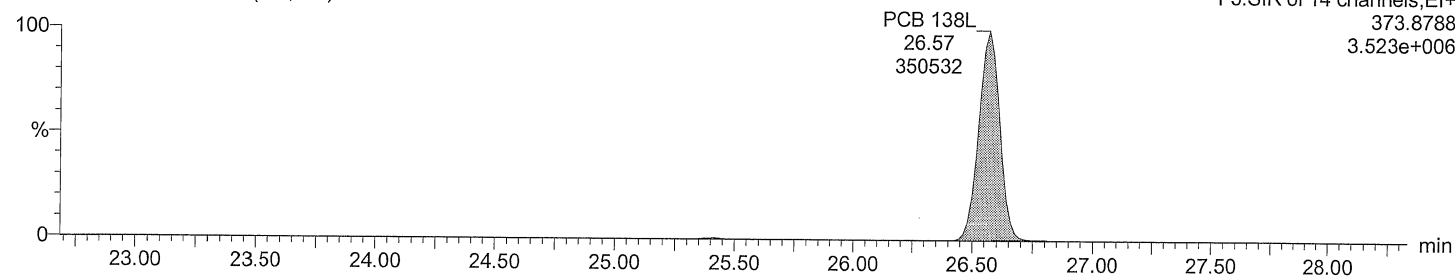
Total HxCB labeled F5

M2160218DS008 Smooth(SG,3x1)



Total HxCB labeled F5

M2160218DS008 Smooth(SG,3x1)



Acquired Date

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

Last Altered: February 20, 2016 11:26:26 AM Eastern Standard Time

Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

Description: BRP509-01R

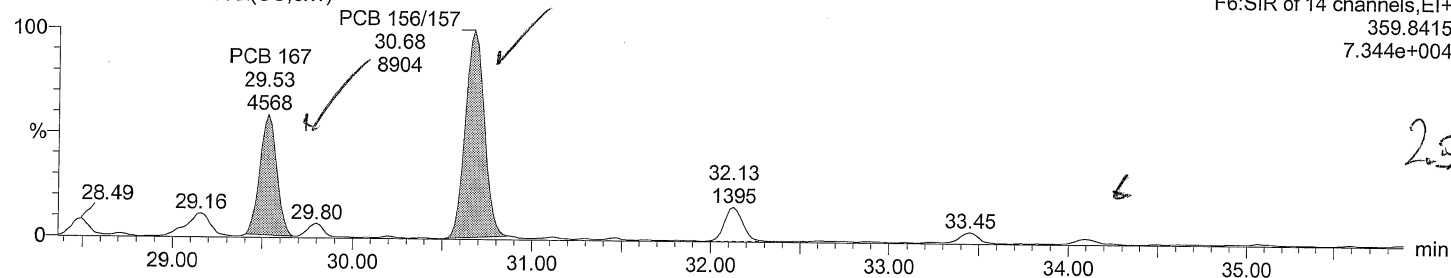
Vial: 8

Date: 18-FEB-2016

Time: 00:18:49

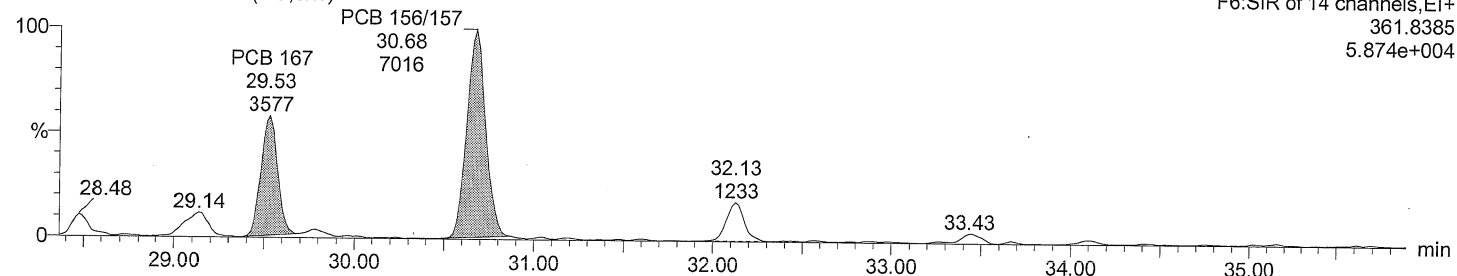
Total HxCB F6

M2160218DS008 Smooth(SG,3x1)



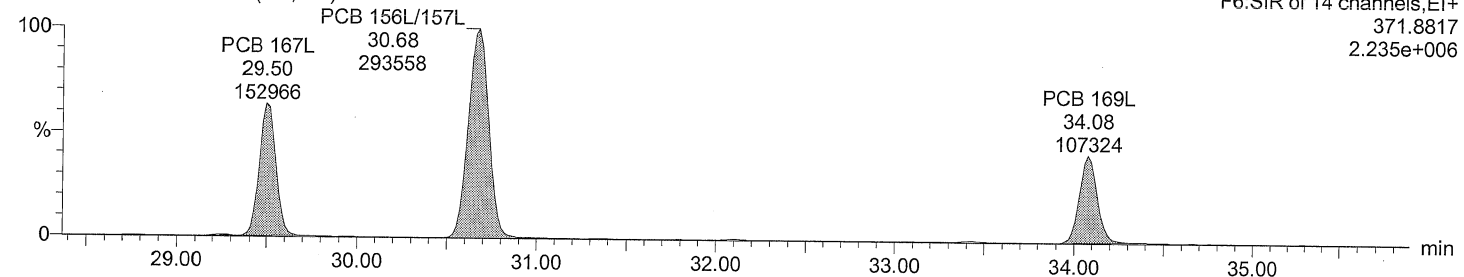
Total HxCB F6

M2160218DS008 Smooth(SG,3x1)



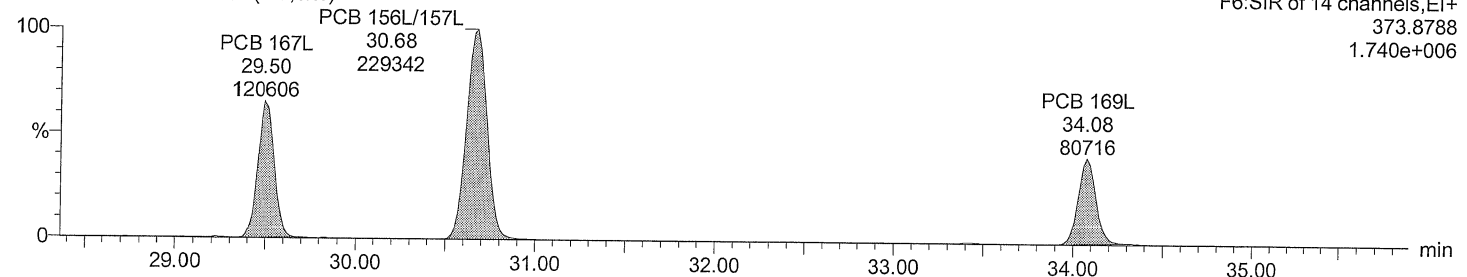
Total HxCB labeled F6

M2160218DS008 Smooth(SG,3x1)



Total HxCB labeled F6

M2160218DS008 Smooth(SG,3x1)



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 11:26:26 AM Eastern Standard Time

Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

Description: BRP509-01R

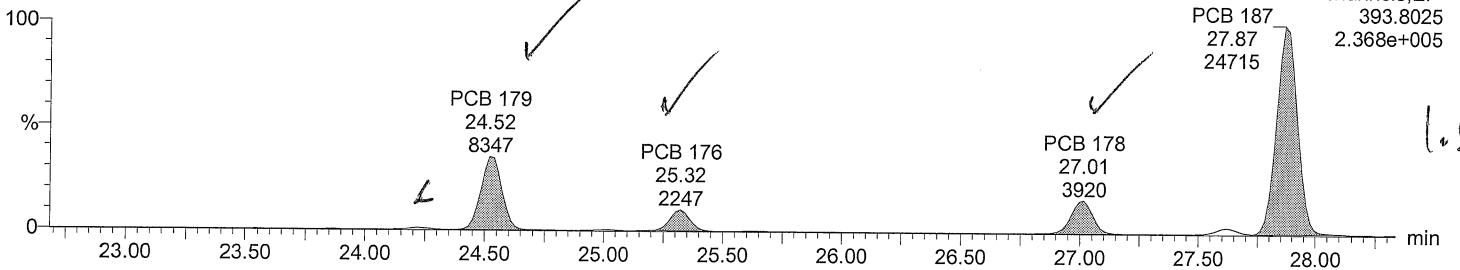
Vial: 8

Date: 18-FEB-2016

Time: 00:18:49

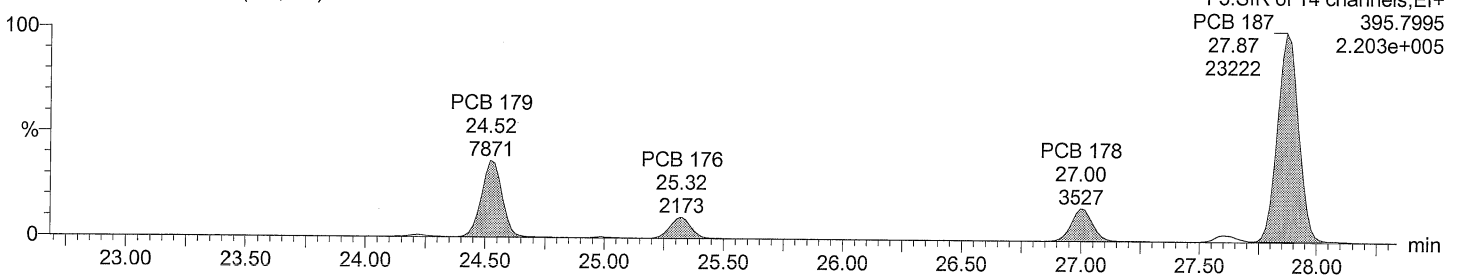
Total HpCB F5

M2160218DS008 Smooth(SG,3x1)



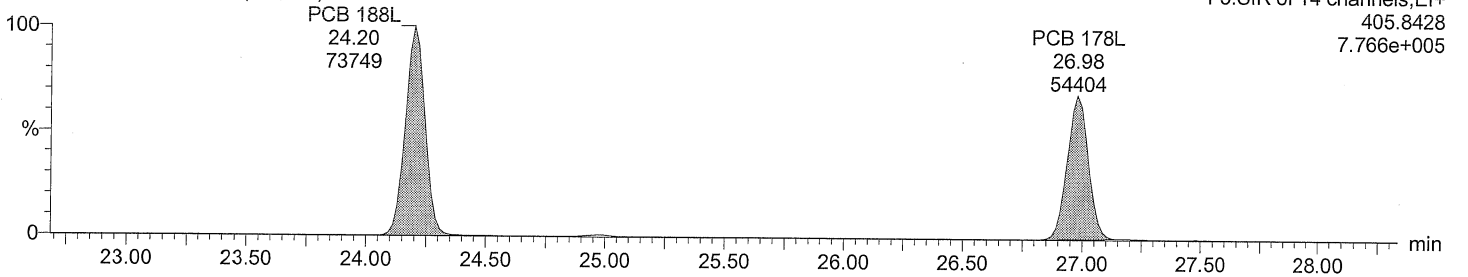
Total HpCB F5

M2160218DS008 Smooth(SG,3x1)



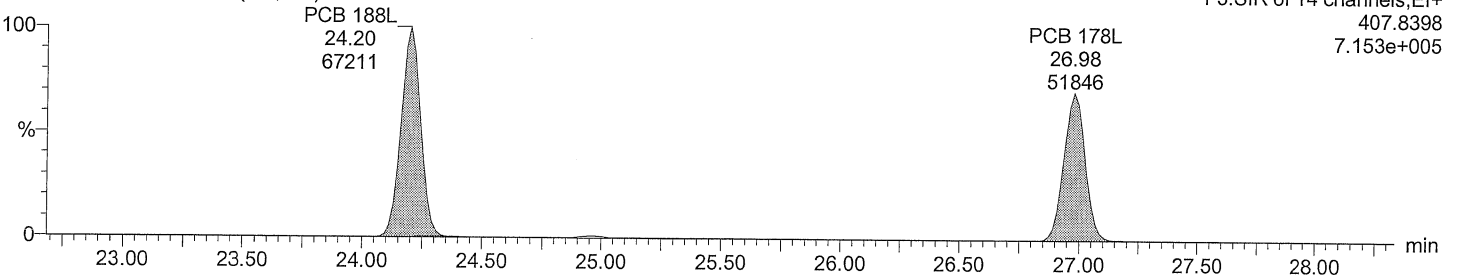
Total HpCB labeled F5

M2160218DS008 Smooth(SG,3x1)



Total HpCB labeled F5

M2160218DS008 Smooth(SG,3x1)



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset:

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

Last Altered:

February 20, 2016 11:26:26 AM Eastern Standard Time

Printed:

February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

Description: BRP509-01R

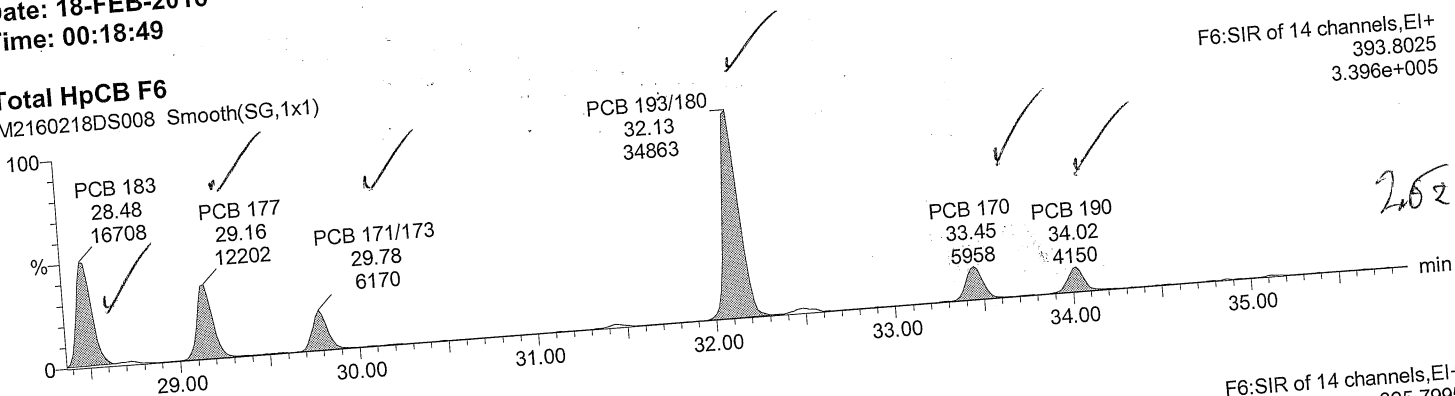
Vial: 8

Date: 18-FEB-2016

Time: 00:18:49

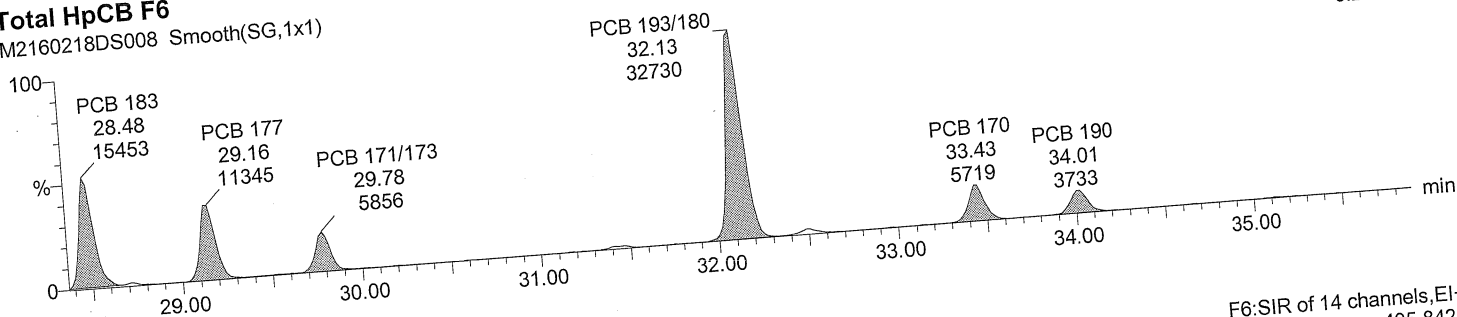
Total HpCB F6

M2160218DS008 Smooth(SG,1x1)



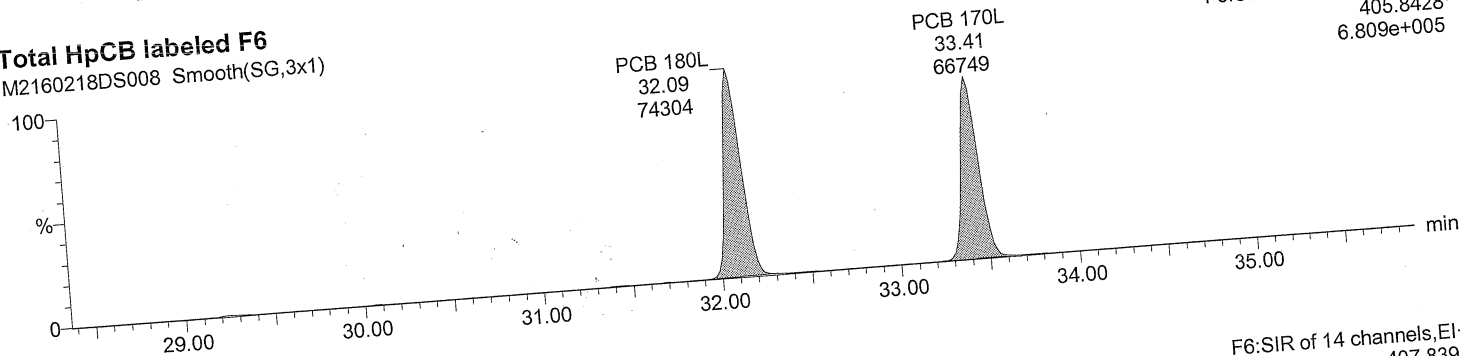
Total HpCB F6

M2160218DS008 Smooth(SG,1x1)



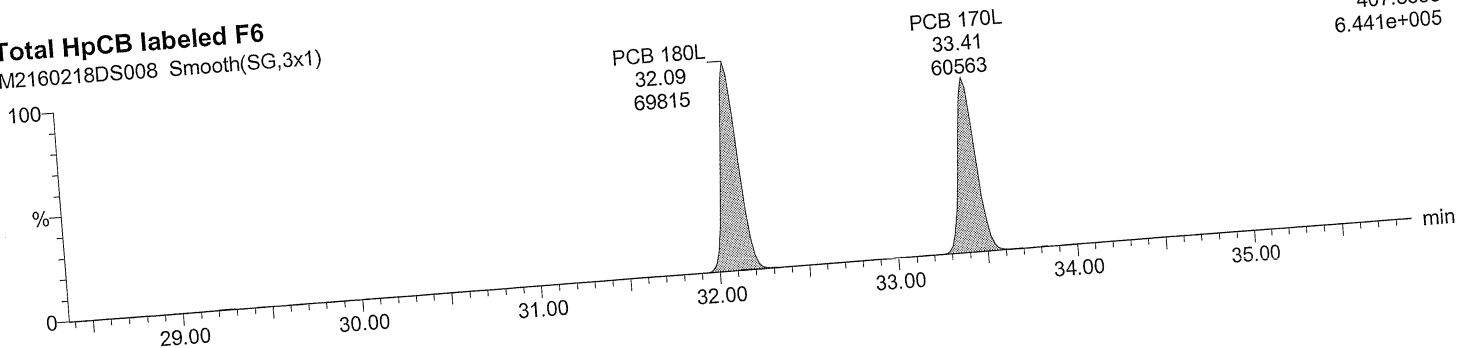
Total HpCB labeled F6

M2160218DS008 Smooth(SG,3x1)



Total HpCB labeled F6

M2160218DS008 Smooth(SG,3x1)



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date:

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

Last Altered: February 20, 2016 11:26:26 AM Eastern Standard Time

Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

Description: BRP509-01R

Vial: 8

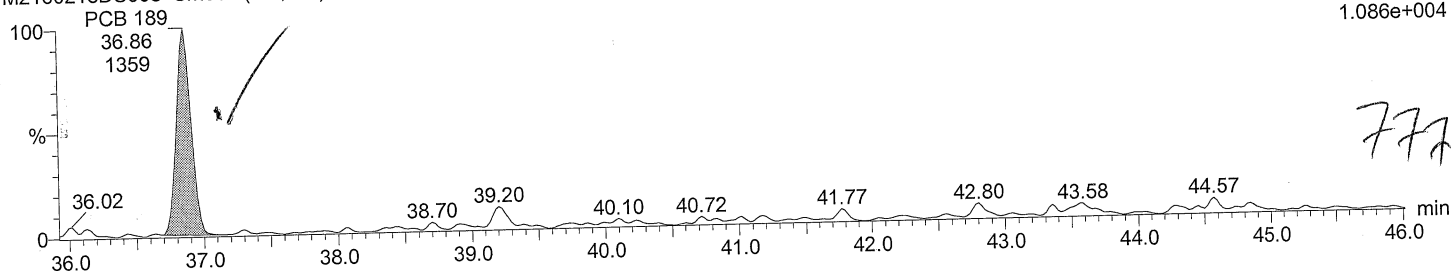
Date: 18-FEB-2016

Time: 00:18:49

Total HpCB F7

M2160218DS008 Smooth(SG,3x1)

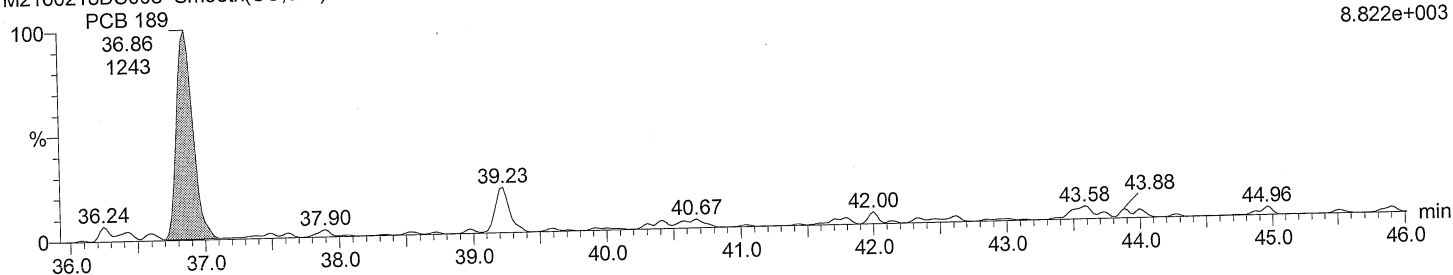
F7:SIR of 18 channels,EI+
393.8025
1.086e+004



Total HpCB F7

M2160218DS008 Smooth(SG,3x1)

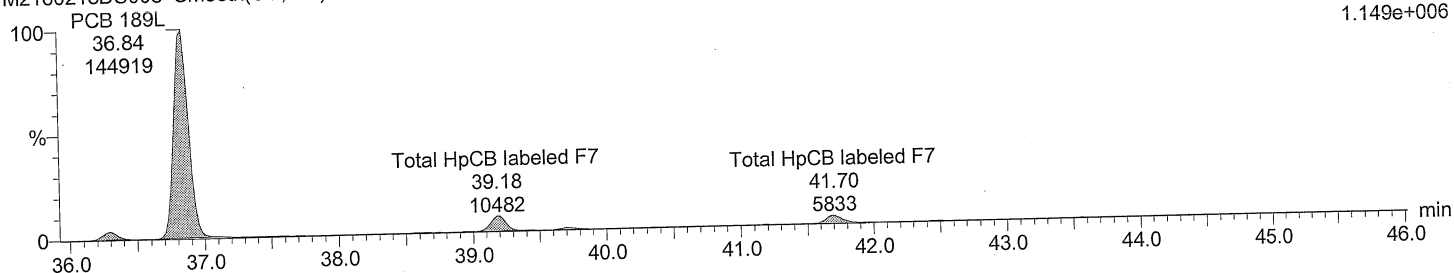
F7:SIR of 18 channels,EI+
395.7995
8.822e+003



Total HpCB labeled F7

M2160218DS008 Smooth(SG,3x1)

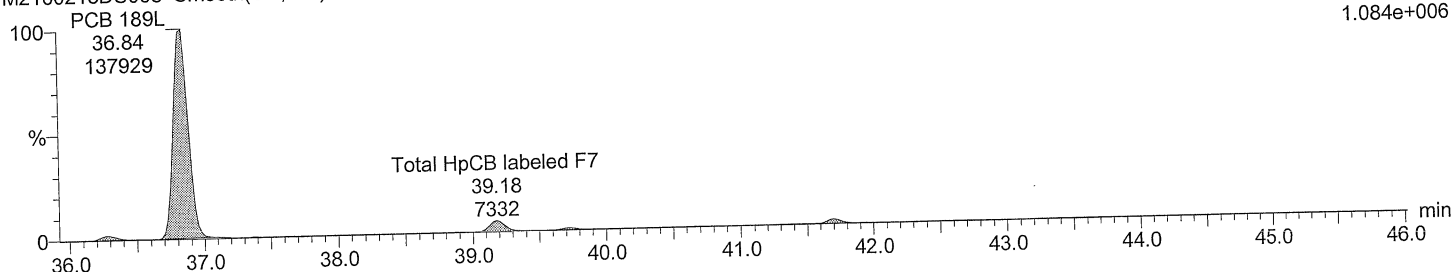
F7:SIR of 18 channels,EI+
405.8428
1.149e+006



Total HpCB labeled F7

M2160218DS008 Smooth(SG,3x1)

F7:SIR of 18 channels,EI+
407.8398
1.084e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 11:26:26 AM Eastern Standard Time

Printed: February 20, 2016 11:29:33 AM Eastern Standard Time

ID: Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

Description: BRP509-01R

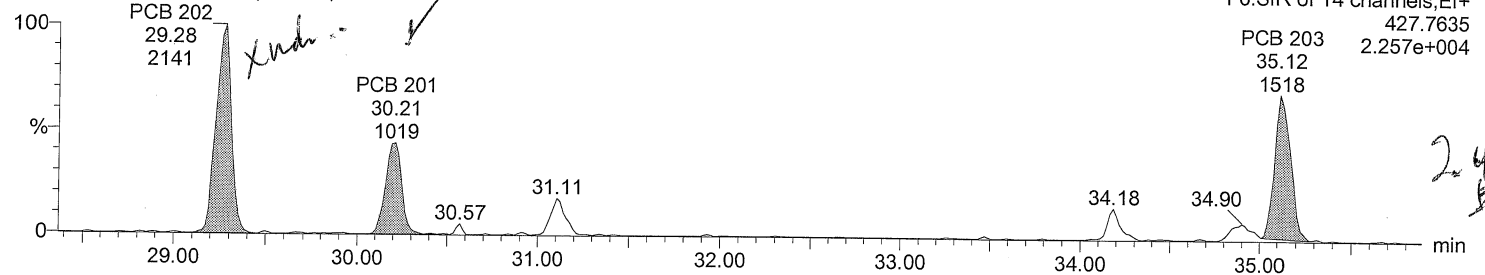
Vial: 8

Date: 18-FEB-2016

Time: 00:18:49

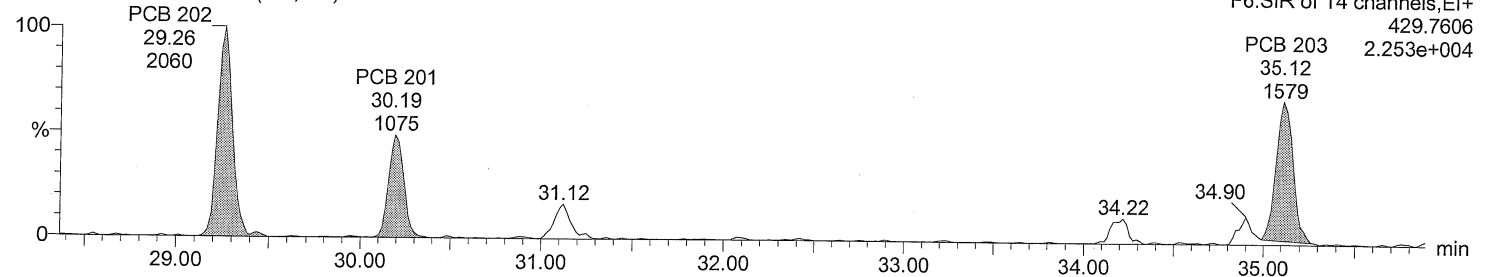
Total OcCB F6

M2160218DS008 Smooth(SG,1x1)



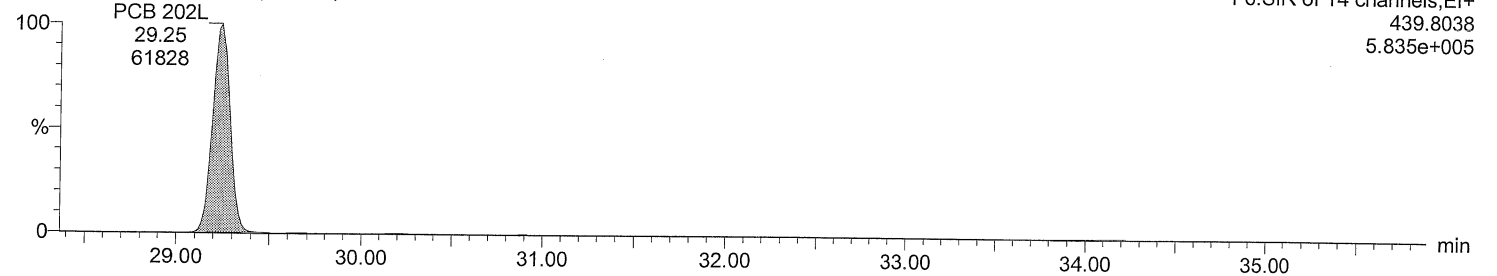
Total OcCB F6

M2160218DS008 Smooth(SG,1x1)



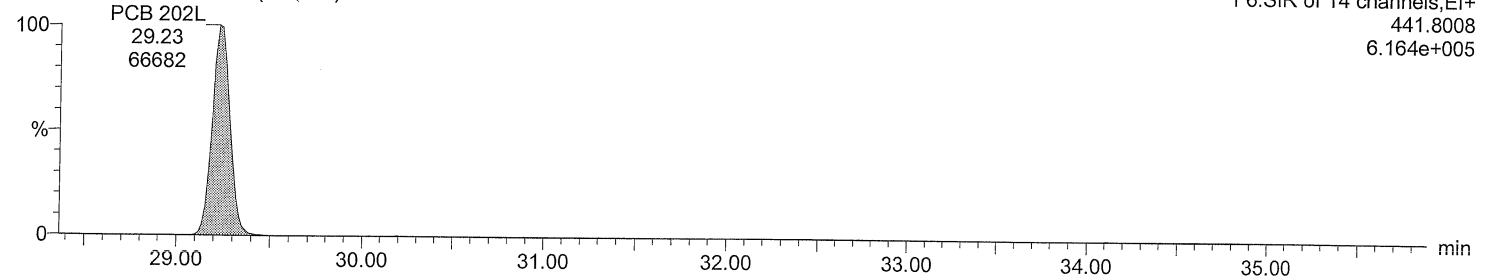
Total OcCB labeled F6

M2160218DS008 Smooth(SG,3x1)



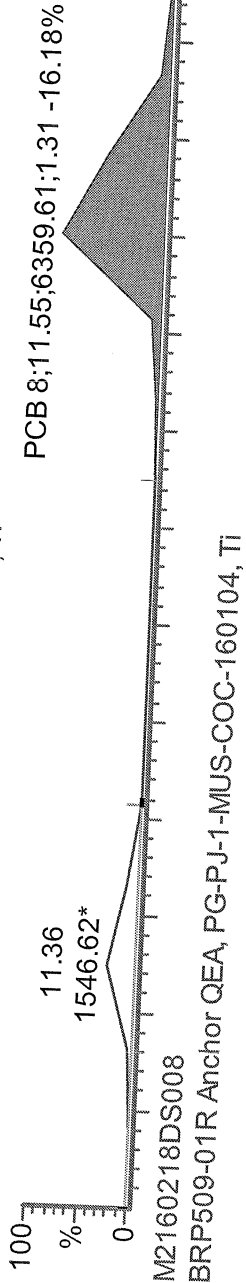
Total OcCB labeled F6

M2160218DS008 Smooth(SG,3x1)



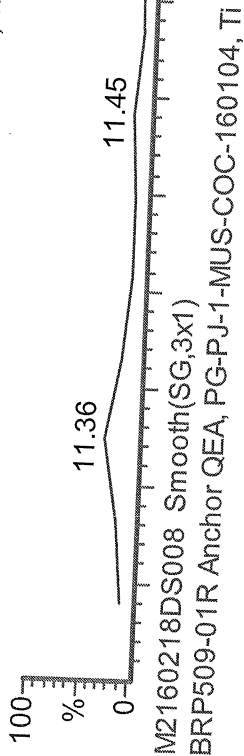
Before
15.02.20
AH

M2160218DS008
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



PCB 8;11.55;6359.61;1.31 -16.18%

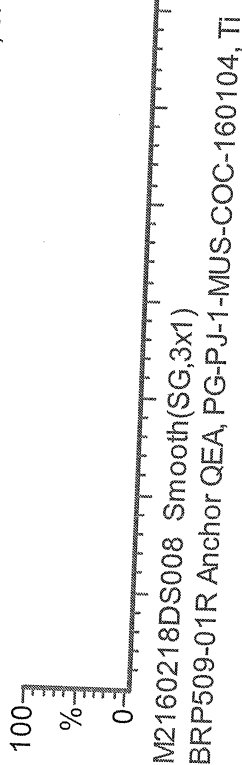
M2160218DS008
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



PCB 8
11.55
4863

M2160218DS008 Smooth(SG,3x1)

BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

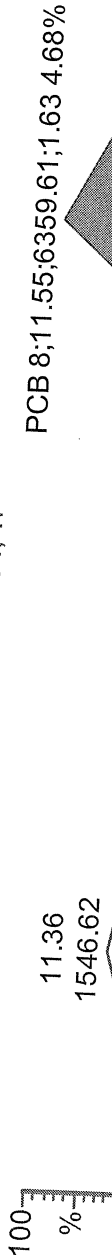


FEB 23 2016

M3 16/02/20 : AH

Maxxam Analytics

M2160218DS008
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



PCB 8;11.55;6359.61;1.63 4.68%

M2160218DS008
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



PCB 8
11.55
3894

M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



11.68

11.78

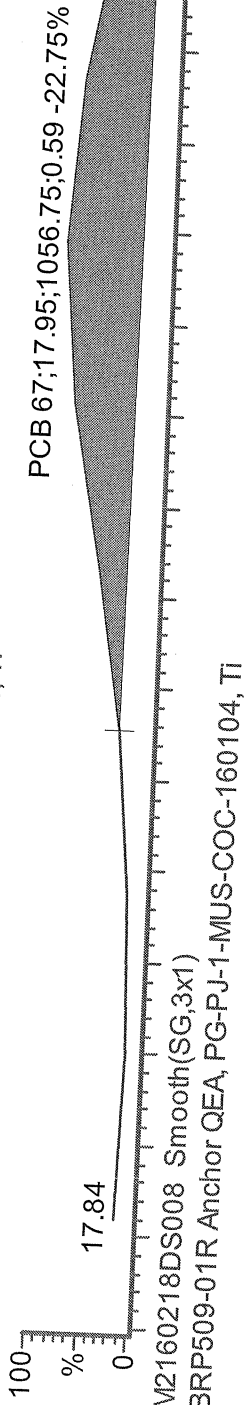
FEB 23 2016

M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



Before
6-02-20
At-

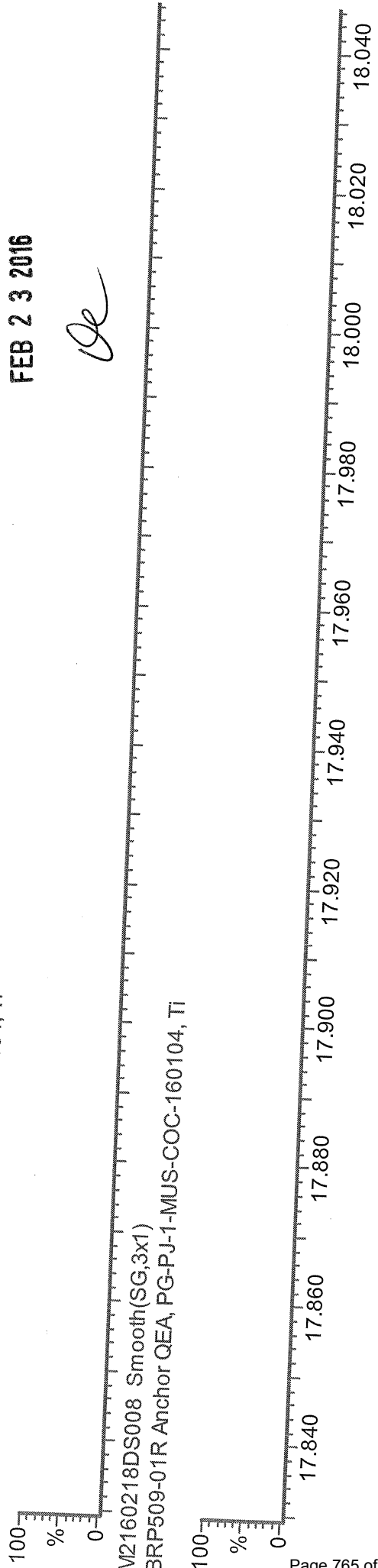
M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



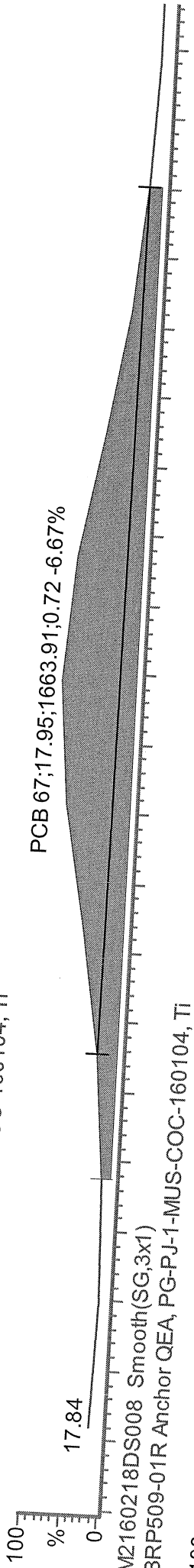
FEB 23 2016

De

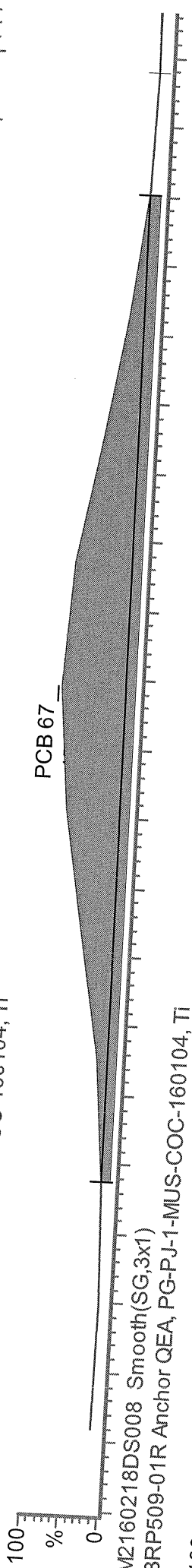
M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

M3 16/02/20 : AH

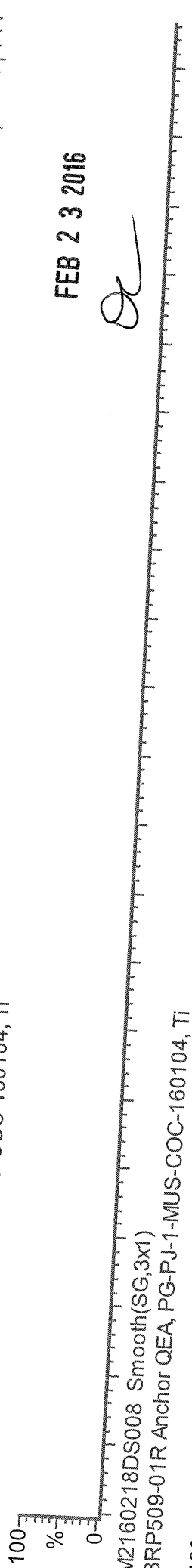
M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



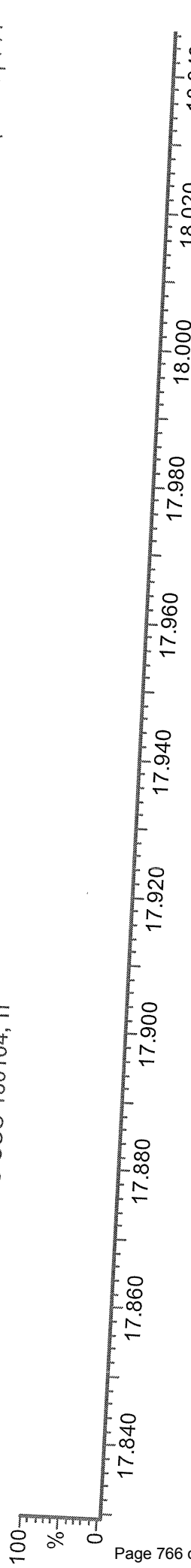
M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



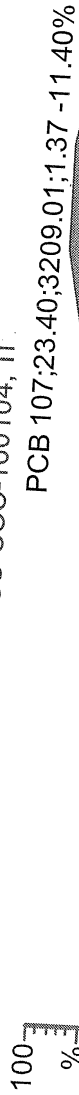
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FEB 23 2016

Before
16.02.20
AA --

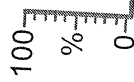
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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



M2160218DS008 Smooth(SG,2x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

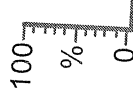


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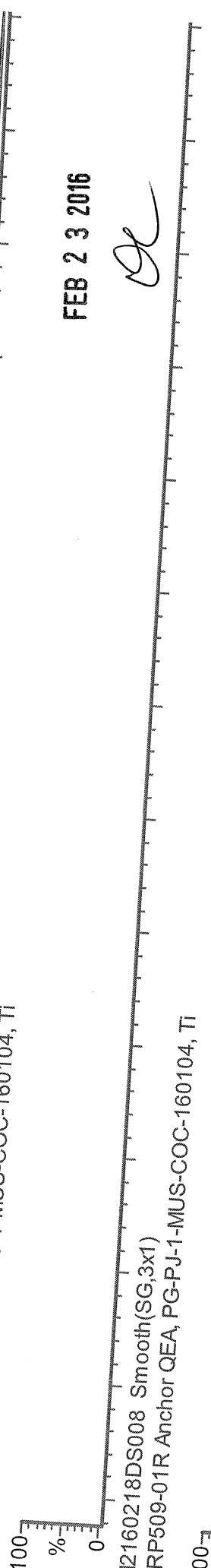
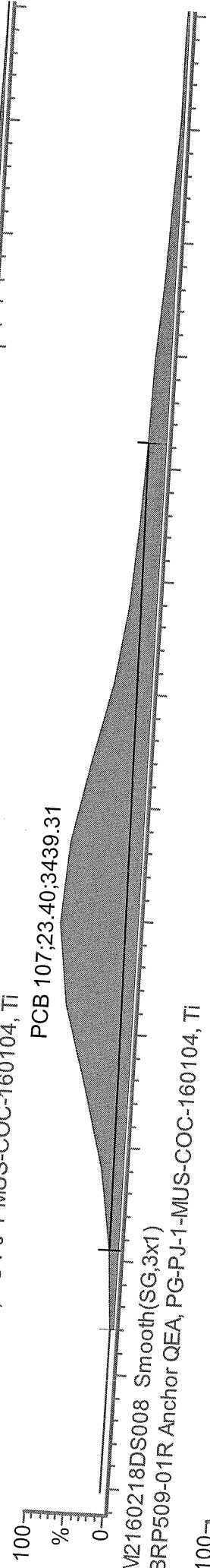
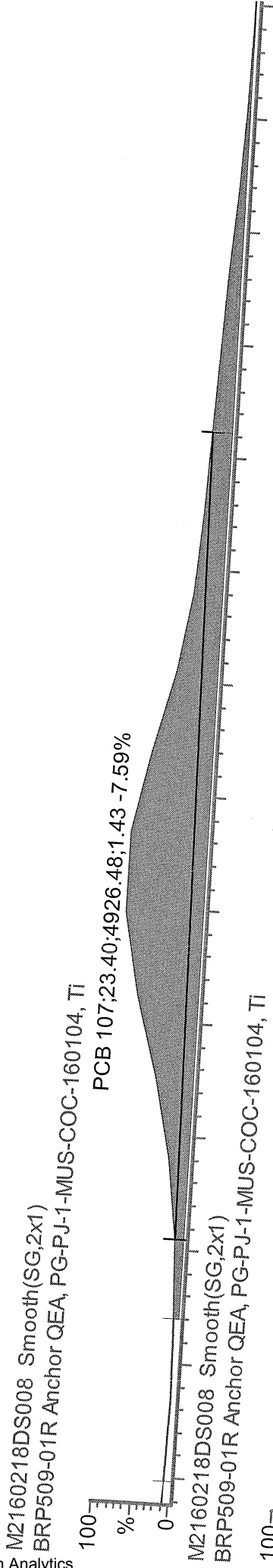
FEB 23 2016

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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



M3 16/02/20 : AH

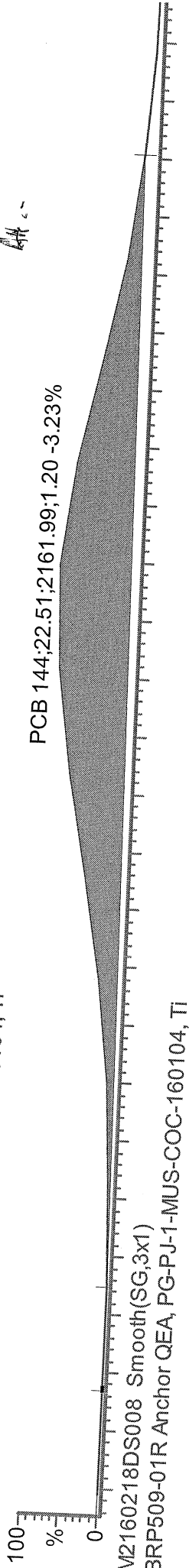
Maxxam Analytics



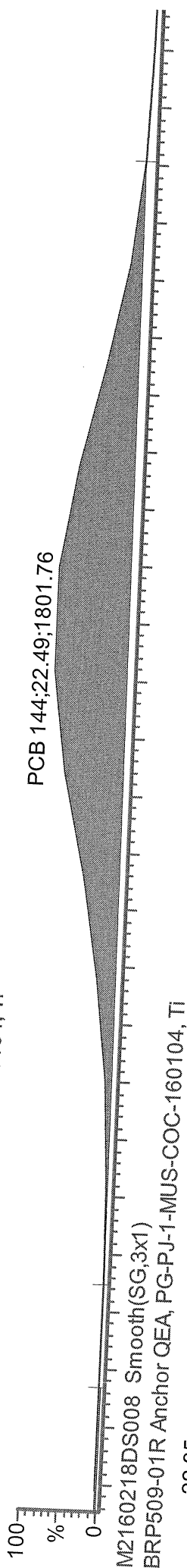
FEB 23 2016

Before
6.02.20
AH

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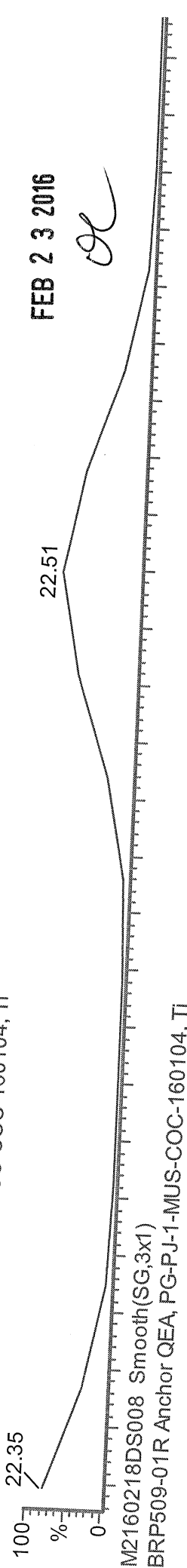


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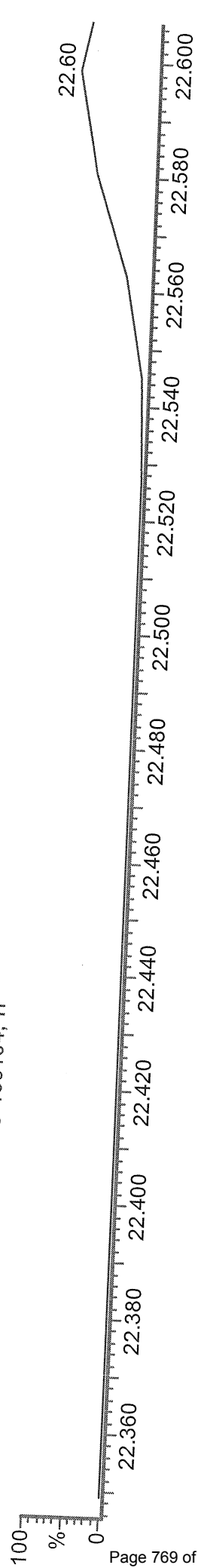


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FEB 23 2016
JC



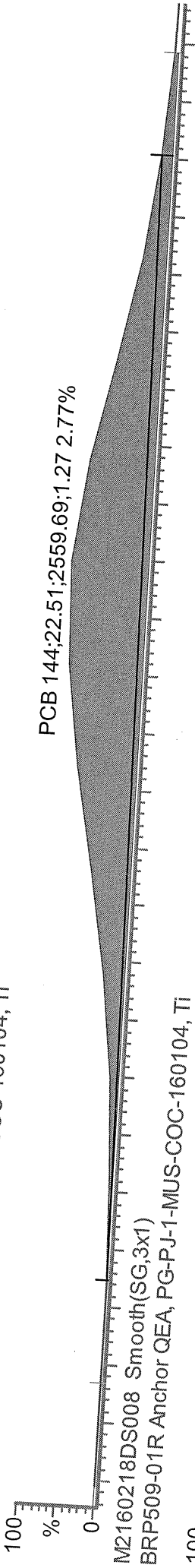
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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, TI



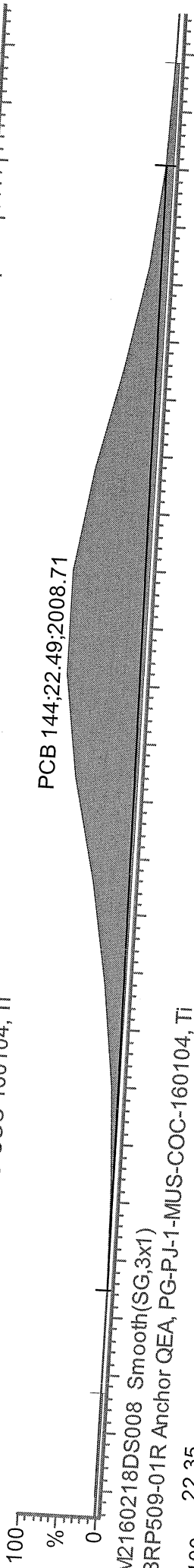
M3 16/02/20 : AH

Maxxam Analytics

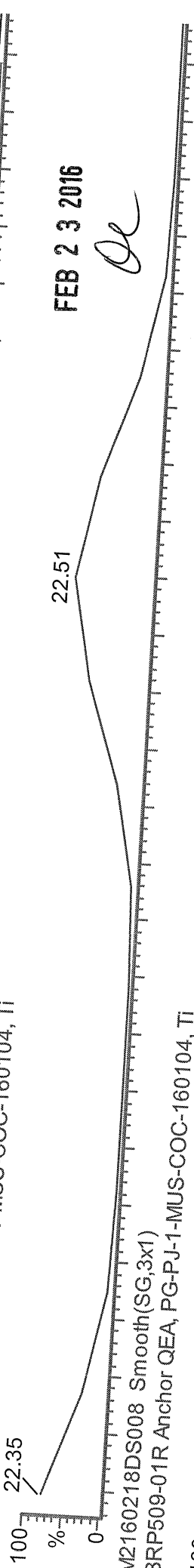
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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, TI



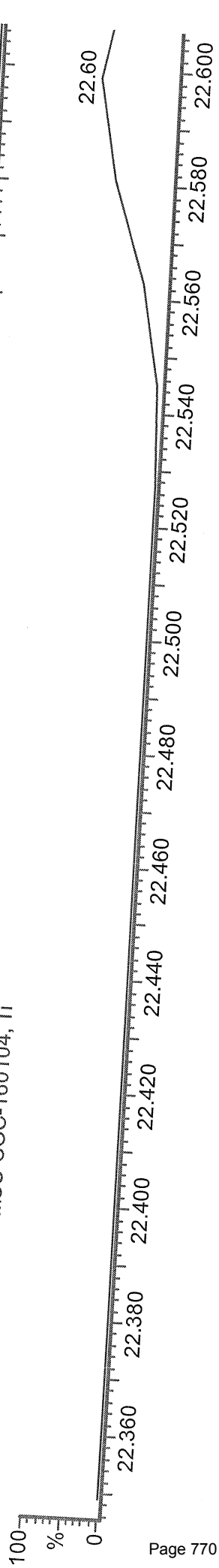
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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, TI



M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, TI

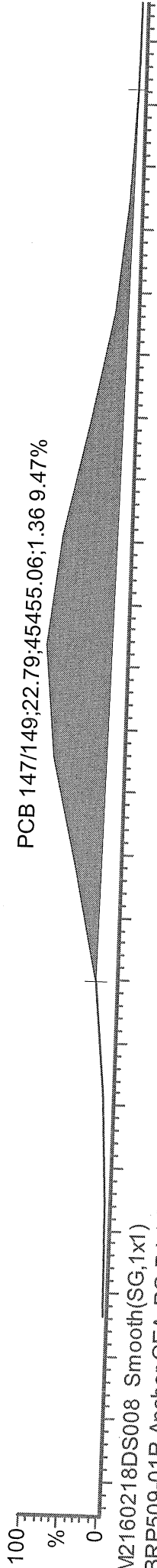


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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, TI

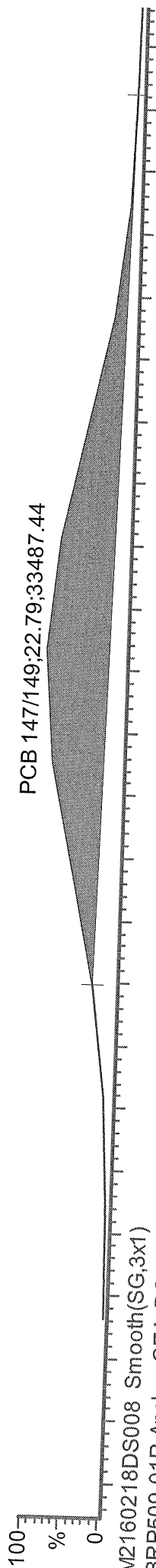


Before
6.02.20
A#

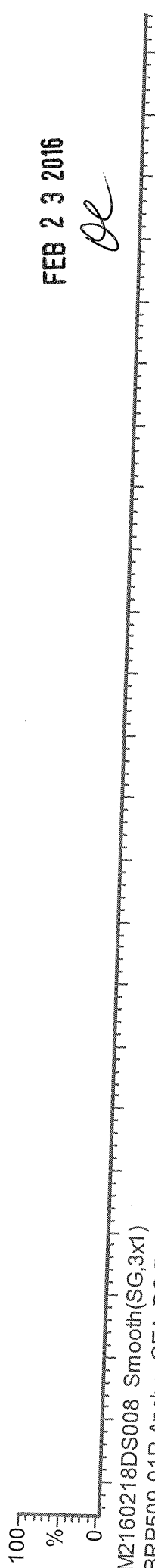
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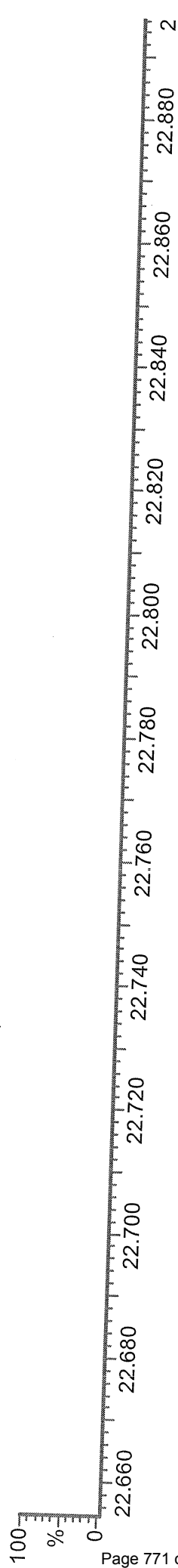
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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



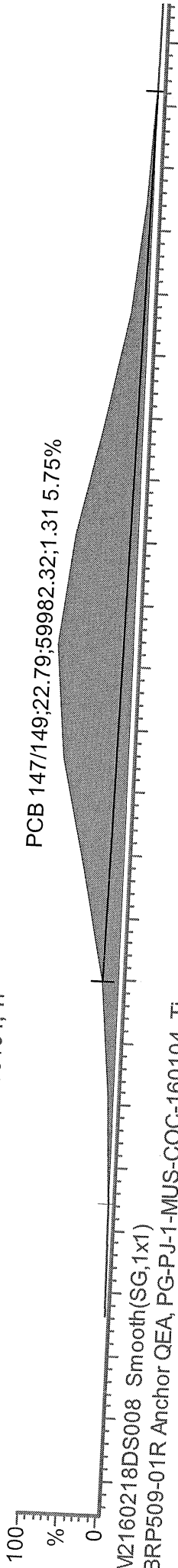
FEB 23 2016

DL

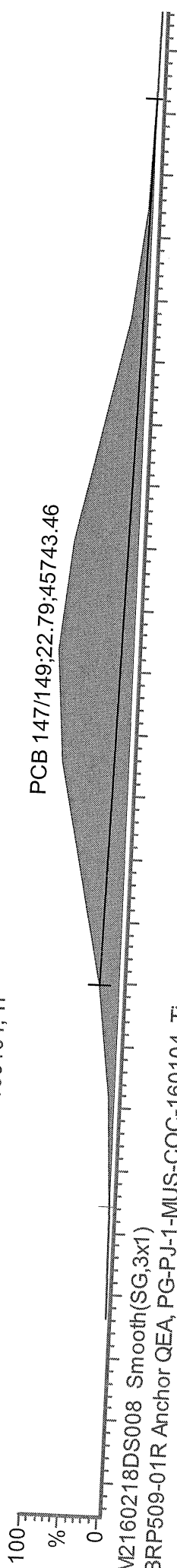
M3 16/02/20 : AH

Maxxam Analytics

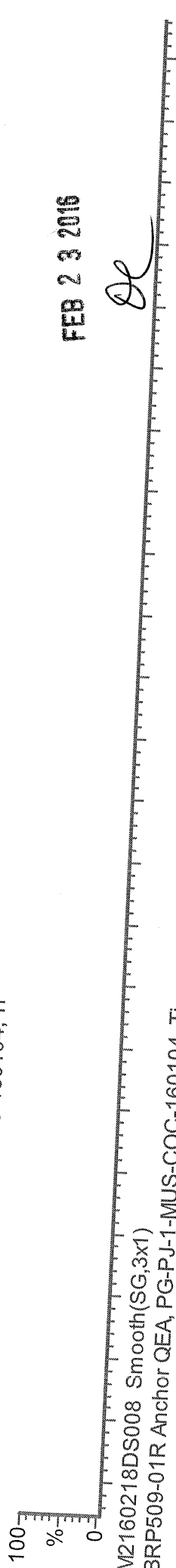
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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



M2160218DS008 Smooth(SG,1x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

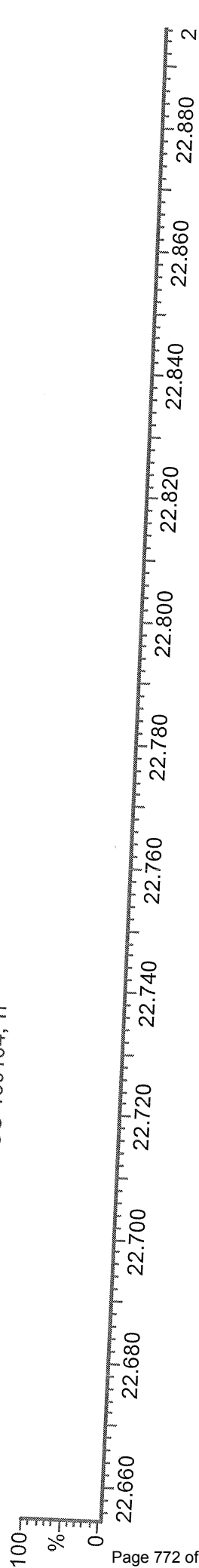


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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



FEB 23 2016

M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

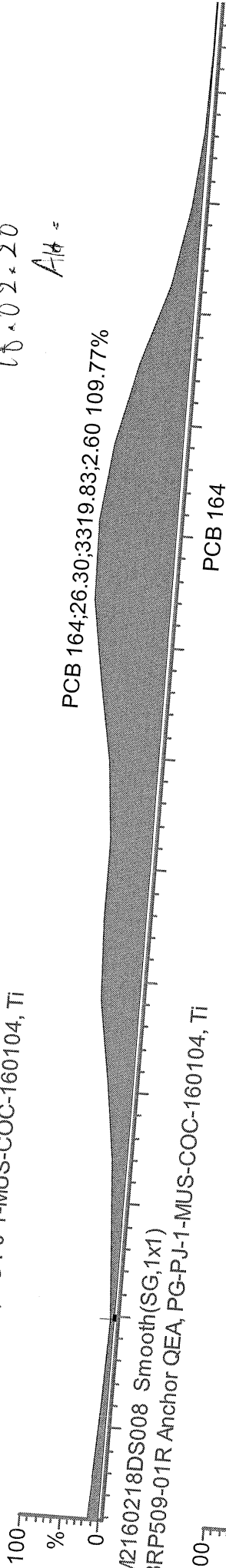


Before

6.02 x 20

A₁₄ =

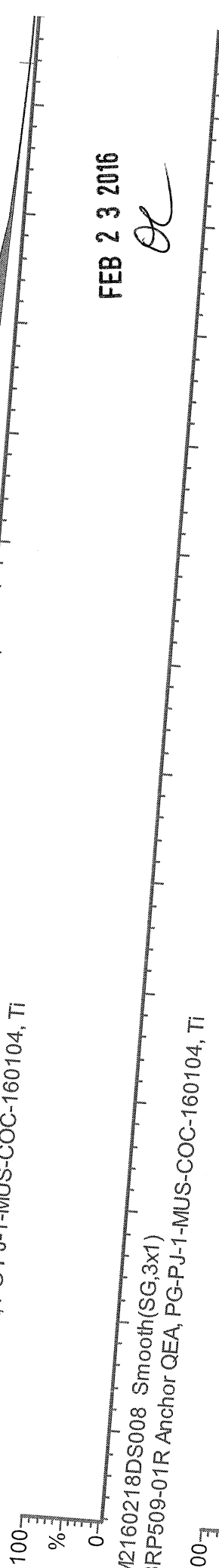
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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



PCB 164
26.30
1276.32

M2160218DS008 Smooth(SG,1x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti



FEB 23 2016

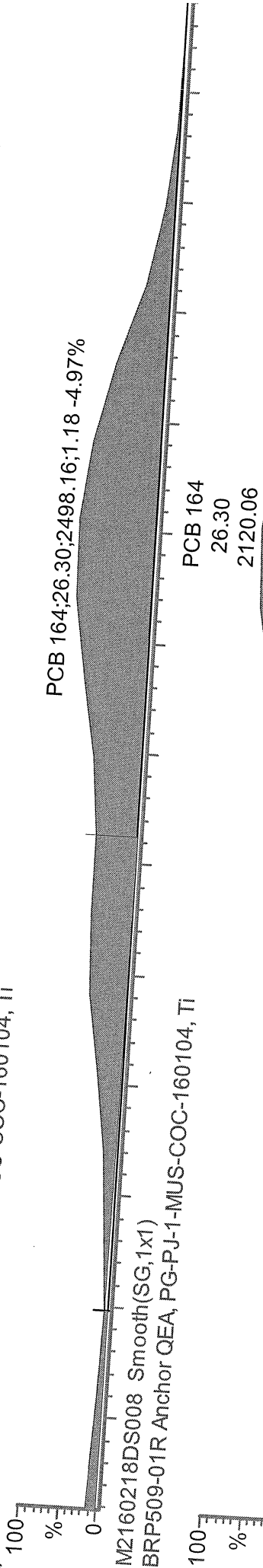
OC

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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, Ti

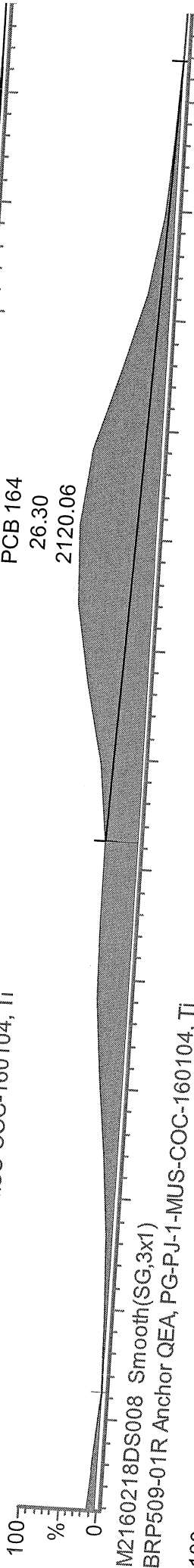
M2 16/02/20 : AH

Maxxam Analytics

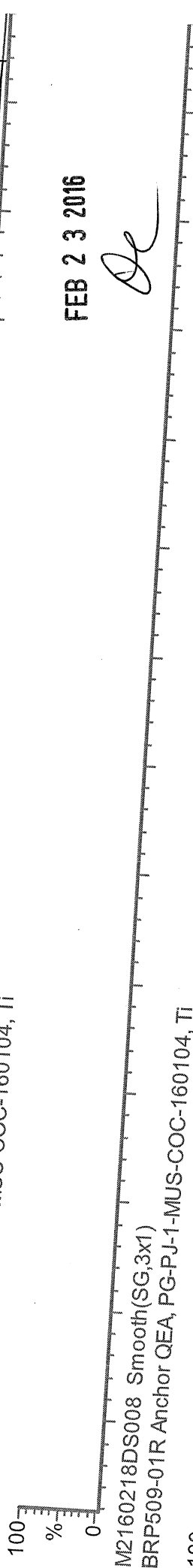
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BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, TI



M2160218DS008 Smooth(SG,1x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, TI

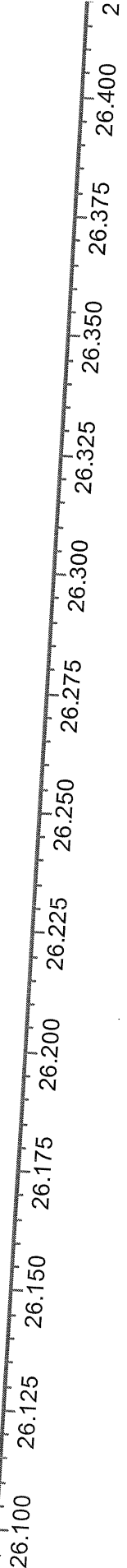


M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, TI



M2160218DS008 Smooth(SG,3x1)
BRP509-01R Anchor QEA, PG-PJ-1-MUS-COC-160104, TI

FEB 23 2016



Analysis Type:

Maxxam ID #:

Analyte:

Instr. File Name:

Injection Date:
Injection Time:

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

Analyte Area (Primary + Secondary Ions) =

Recovery Standard Area (Primary + Secondary Ions) =

Internal Standard Area (Primary + Secondary Ions) =

Amount of Recovery Standard added to the Extract (pg, ng) =

Amount of Internal Std. added to the sample (pg, ng) =

Average RRF of Analyte =

RRF of Internal Standard =

Amount of Sample Extracted (g or L) =

SPLIT / Dilution Factor =

Analyte Conc. (pg/g, pg/L, Total pg)
or (ng/g, ng/L, Total ng) =

Internal Standard Recovery (%) =

DAILY RRFs
Using post concal

=A

=B

=C

=D

=E

=F

=G

=H

=I

=A*E/(C*H*F)*I

=C*D*100/(B*E*G)

Sample ID BRP510-01R
 Comments
 Instrument File Ultima 3
 Sample Size 10.076

Dil Fac 1.00

Name	mass	RT	Area	ratio	Tot Area	ng	Code	Isomers	DL	S/N	Mod	rf	Rec
1 PCB 1	188	NotFnd	*	*	*	*							
2 PCB 2	MoCB 190	8.98	*	no	*	-0.00062			-0.00062	*	no	1.082	-
3 PCB 3	MoCB 190	10.10	*	no	*	-0.00056			-0.00056	*	no	1.2	-
4 PCB 4	MoCB 190	10.19	*	no	*	-0.00062			-0.00062	*	no	1.079	-
5 PCB 10	DiCB 224	10.29	*	no	*	-0.00257			-0.00257	*	no	0.954	-
6 PCB 9	DiCB 224	10.37	*	no	*	-0.002			-0.002	*	no	1.229	-
7 PCB 7	DiCB 224	11.18	*	no	*	-0.00327			-0.00327	*	no	1.311	-
8 PCB 6	DiCB 224	11.26	*	no	*	-0.00368			-0.00368	*	no	1.165	-
9 PCB 5	DiCB 224	11.34	1926	1.28	3435	-0.00325			-0.00325	*	no	1.319	-
10 PCB 8	DiCB 224	11.50	1509	*	*	-0.00436			-0.00436	*	no	0.983	-
11 PCB 14	DiCB 224	11.55	7721	1.37	13339	0.009779			-0.00436	*	no	1.456	-
12 PCB 11	DiCB 224	12.26	5618	yes	*	-0.00322			-0.00295	109	no	1.332	-
13 PCB 13/12	DiCB 224	12.64	6882	1.37	11890	0.009881			-0.00322	8	no	1.285	-
14 PCB 15	DiCB 224	12.66	5009	yes	*	-0.00355			-0.00334	62	no	1.21	-
15 PCB 19	DiCB 224	12.82	*	no	*	-0.00355			-0.00355	5	no	0.871	-
16 PCB 30/18	TriCB 258	12.95	20403	1.38	35198	0.028358			-0.00493	191	no	0.899	-
17 PCB 17	TriCB 258	12.96	14795	yes	2652	0.005636			-0.00215	12	no	0.813	-
18 PCB 27	TriCB 258	11.68	1390	1.1	36257	0.042919			-0.00237	16	no	0.683	-
19 PCB 24	TriCB 258	11.70	1262	yes	7013	0.009888			-0.00282	195	no	1.002	-
20 PCB 16	TriCB 258	12.48	18728	1.07	7433	0.007142			-0.00193	193	no	0.855	-
21 PCB 32	TriCB 258	12.69	3766	1.16	*	-0.00226			-0.00226	33	no	1.235	-
22 PCB 34	TriCB 258	12.78	3248	yes	12582	0.024198			-0.00385	51	no	1.033	-
23 PCB 23	TriCB 258	12.79	3594	0.94	11682	0.010291			-0.00176	48	no	1.221	-
24 PCB 26/29	TriCB 258	12.87	3839	yes	*	-0.00226			-0.00089	58	no	1.334	-
25 PCB 25	TriCB 258	12.91	*	no	*	-0.00226			-0.00089	54	no	1.335	-
26 PCB 31	TriCB 258	12.91	6464	1.06	12582	0.024198			-0.00107	*	no	1.191	-
27 PCB 28/20	TriCB 258	12.90	6118	yes	11682	0.010291			-0.00107	*	no	1.256	-
28 PCB 21/33	TriCB 258	13.14	5993	1.05	11682	0.010291			-0.00176	51	no	1.127	-
29 PCB 22	TriCB 258	13.14	5688	yes	*	-0.00089			-0.00176	48	no	1.57	-
30 PCB 36	TriCB 258	13.74	*	no	*	-0.00089			-0.00089	58	no	1.32	-
31 PCB 39	TriCB 258	13.83	*	no	*	-0.00107			-0.00089	54	no	1.438	-
32 PCB 38	TriCB 258	13.97	16216	1.05	31651	0.024955			-0.00107	*	no	1.597	-
33 PCB 35	TriCB 258	13.99	15434	yes	15183	0.010957			-0.0009	95	no	0.906	-
34 PCB 37	TriCB 258	14.10	7811	1.06	166542	0.12009			-0.00083	91	no	0.911	-
35 PCB 54	TriCB 258	14.10	7372	yes	436973	0.353405			-0.00083	46	no	0.633	-
36 PCB 53/50	TriCB 258	14.26	83767	1.01	78920	0.060537			-0.00083	45	no	0.554	-
37 PCB 45/51	TriCB 258	14.26	82775	yes	67745	0.057878			-0.00083	503	no	0.834	-
38 PCB 46	TriCB 258	14.43	221710	1.03	78920	0.060537			-0.00093	505	no	0.813	-
39 PCB 52	TriCB 258	14.53	39665	1.01	67745	0.057878			-0.00093	1256	no	0.813	-
40 PCB 73	TriCB 258	14.53	39255	yes	*	-0.00089			-0.00089	1287	no	0.813	-
41 PCB 43	TriCB 258	14.75	34073	1.01	67745	0.057878			-0.00088	217	no	0.813	-
42 PCB 69/49	TCB 292	14.76	33671	yes	*	-0.00088			-0.00088	232	no	0.813	-
	TCB 292	15.60	*	no	*	-0.0007			-0.00098	191	no	0.813	-
	TCB 292	15.83	1448	0.92	3029	0.002209			-0.0007	199	no	0.813	-
	TCB 292	15.83	1581	yes	*	-0.00077			-0.00077	*	no	0.813	-
	TCB 292	16.18	*	no	*	-0.00077			-0.00077	8	no	0.813	-
	TCB 292	16.45	-1271.92	1.04	-2494.92	-0.0015	PCB 35 NDR		-0.00077	10	no	0.813	-
	TCB 292	16.45	-1223	OK	61328	0.043597			-0.00069	*	no	0.813	-
	TCB 292	16.70	31005	1.02	61328	0.043597			-0.00122	9	xL	0.813	-
	TCB 292	16.70	30323	yes	*	-0.00122			-0.00122	7	no	0.813	-
	TCB 292	13.08	*	no	*	-0.00122			-0.00122	157	no	0.813	-
	TCB 292	14.10	12174	0.81	27252	0.039495			-0.00122	157	no	0.813	-
	TCB 292	14.11	15078	yes	*	-0.00293			-0.00293	*	no	0.813	-
	TCB 292	14.46	7243	0.79	16459	0.02466			-0.00303	55	no	0.813	-
	TCB 292	14.49	9216	yes	8713	0.014921			-0.00303	52	no	0.813	-
	TCB 292	14.64	3834	0.79	205890	0.23407			-0.00346	30	no	0.813	-
	TCB 292	14.64	4879	yes	725	-0.00236			-0.00346	30	no	0.813	-
	TCB 292	15.36	91762	0.8	8721	0.016011			-0.00236	16	no	0.813	-
	TCB 292	15.38	114128	yes	*	-0.00236			-0.00236	16	no	0.813	-
	TCB 292	15.47	291	0.67	91886	0.10236			-0.00236	401	no	0.813	-
	TCB 292	15.46	434	yes	*	-0.00371			-0.00371	390	yes	0.813	-
	TCB 292	15.51	3786	0.77	*	-0.00225			-0.00225	*	yes	0.813	-
	TCB 292	15.52	4934	yes	16	yes	0.516		-0.00225	16	no	0.851	-
	TCB 292	15.65	40291	0.78	177	no	0.851		-0.00225	173	no	0.851	-
	TCB 292	15.64	51596	yes	173	no	0.851		-0.00225	173	no	0.851	-

43 PCB 48	290	15.82	22709	0.79	51615	0.072692					
44 PCB 44/47/65	TCB 292	15.84	28906	yes							
	290	15.96	88635	0.82	196881	0.238384					
45 PCB 59/62/75	TCB 292	15.98	108246	yes			-0.00285	92	no	0.673	
	290	16.16	12088	0.83	26560	0.024778		92			
46 PCB 42	TCB 292	16.17	14472	yes				317	no	0.783	
	290	16.27	17241	0.79	39126	0.054436		297			
47 PCB 40/41/71	TCB 292	16.30	21885	yes				44	no	1.017	
	290	16.57	40007	0.81	89558	0.117373		40			
48 PCB 64	TCB 292	16.58	49550	yes				67	no	0.682	
	290	16.70	24274	0.77	55679	0.057273		68			
49 PCB 72	TCB 292	16.71	31405	yes				132	no	0.724	
	290	17.20	1115	0.72	2657	0.001932		124			
50 PCB 68	TCB 292	17.19	1542	yes				95	no	0.922	
	290	17.38	881	0.8	1978	0.001537		93			
51 PCB 57	TCB 292	17.40	1096	yes				5	no	1.304	
	290	17.70	697	0.79	1582	0.001229		5			
52 PCB 58	TCB 292	17.68	885	yes				4	yes	1.22	
	290	NotFnd	*	*				3			
53 PCB 67	TCB 292	17.83	*	*				4	yes	1.221	
	290	17.95	2505	no				4			
54 PCB 63	TCB 292	17.94	0.73	5956	0.004195			*	no	1.035	
	290	18.13	3451	yes				*			
55 PCB 61/70/74/76	TCB 292	18.13	2615	0.83	5780	0.004376		*	yes	1.347	
	290	18.34	3165	yes				11			
56 PCB 66	TCB 292	18.34	58857	0.76	136511	0.116763		11	yes	1.253	
	290	18.57	77654	yes				10			
57 PCB 55	TCB 292	18.58	24866	0.77	57298	0.043766		167	no	1.109	
	290	NotFnd	32432	yes				168			
58 PCB 56	TCB 292	18.71	*	*				99	no	1.241	
	290	19.06	3642	no				101			
59 PCB 60	TCB 292	19.05	4532	0.8	8174	0.007788		*	no	0.998	
	290	19.22	2778	yes				*			
60 PCB 80	TCB 292	19.22	3886	0.71	6664	0.006399		15	no	0.995	
	290	NotFnd	*	yes				14			
61 PCB 79	TCB 292	19.48	*	no				12	no	0.988	
	290	NotFnd	*	*				13			
62 PCB 78	TCB 292	20.61	*	no				*	no	1.224	
	290	NotFnd	*	*				*			
63 PCB 81	TCB 292	21.06	*	no				*	no	1.462	
	290	NotFnd	*	*				*			
64 PCB 77	TCB 292	21.43	*	*				*	no	1.287	
	290	21.89	no	*				*			
65 PCB 104	TCB 292	21.87	1311	0.72	3135	0.002282		*	no	1.027	
	326	NotFnd	1823	yes				*			
66 PCB 96	PeCB 328	15.94	*	*				5	no	1.077	
	326	16.16	1112	no				5			
67 PCB 103	PeCB 328	16.16	1.62	1798	0.001875			*	no	1.094	
	326	17.31	686	yes				*			
68 PCB 94	PeCB 328	17.33	1216	1.6	1976	0.002437		26	no	0.874	
	326	NotFnd	760	yes				23			
69 PCB 95	PeCB 328	17.47	*	*				6	no	0.739	
	326	17.75	40736	no				6			
70 PCB 100/93/102/98	PeCB 328	17.77	24671	1.65	65407	0.087309		*	no	0.54	
	326	17.99	4356	yes				*			
71 PCB 88/91	PeCB 328	17.93	2490	1.75	6846	0.010077		204	no	0.683	
	326	18.34	3688	yes				191			
72 PCB 84	PeCB 328	18.31	2128	1.73	5816	0.008478		14	yes	0.619	
	326	18.50	4294	yes				13			
73 PCB 89	PeCB 328	18.50	2546	1.69	6840	0.011671		17	yes	0.625	
	326	NotFnd	*	yes				16			
74 PCB 121	PeCB 328	18.84	*	no				21	no	0.534	
	326	NotFnd	*	*				19			
75 PCB 92	PeCB 328	19.08	*	*				*	no	0.582	
	326	19.36	9595	1.55	15798	0.024083		*			
76 PCB 113/90/101	PeCB 328	19.35	6203	yes				*	no	0.761	
	326	19.78	71024	1.63	114488	0.14688		*			
77 PCB 83/99	PeCB 328	19.76	43464	yes				46	no	0.598	
	326	20.23	37316	yes				46			
78 PCB 112	PeCB 328	20.22	22914	1.63	60230	0.088075		330	no	0.71	
	326	NotFnd	*	yes				308			
79 PCB 109/119/86/97/125/326	PeCB 328	20.33	*	*				161	no	0.623	
	326	20.62	20898	no				151			
80 PCB 117/116/85	PeCB 328	20.62	12371	1.69	33269	0.041738		*	no	0.819	
	326	21.19	6688	yes				*			
81 PCB 110/115	PeCB 328	21.23	4161	1.61	10849	0.012427		49	no	0.726	
	326	21.30	48352	yes				46			
82 PCB 82	PeCB 328	21.32	28745	1.68	77097	0.093717		31	yes	0.796	
	326	21.57	1935	yes				30			
83 PCB 111	PeCB 328	21.59	1305	1.48	3239	0.00523		194	no	0.75	
	326	NotFnd	*	yes				181			
84 PCB 120	PeCB 328	21.85	*	*				8	no	0.564	
	326	NotFnd	*	no				9			
85 PCB 108/124	PeCB 328	22.25	*	*				*	no	0.809	
	326	23.19	2149	no				*			
86 PCB 107	PeCB 328	23.21	1388	1.55	3537	0.002872		*	no	0.951	
	326	23.40	6362	yes				*			
87 PCB 123	PeCB 328	23.40	3869	1.64	10231	0.008127		8	no	1.122	
	326	NotFnd	*	yes				8			
88 PCB 106	PeCB 328	23.51	*	*				21	yes	1.147	
	326	NotFnd	*	no				19			
89 PCB 118	PeCB 328	23.63	*	*				*	no	0.894	
	326	23.79	71040	no				*			
	PeCB 328	23.80	44534	1.6	115574	0.095274		*	no	1.218	
			yes	yes				236	no	0.981	
								230			

90 PCB 122	326	NotFnd	*	*	*	-0.00109				
91 PCB 114	PeCB 328	24.08	*	*	*	-0.00109	*	no	1.079	-
	326	24.27	1098	1.52	1821	0.001523				
92 PCB 105	PeCB 328	24.28	723	yes						
	326	24.84	22977	1.54	37931	0.031753				
93 PCB 127	PeCB 328	24.83	14953	yes						
	326	NotFnd	*	*	*	-0.00116	3	no	1.01	-
94 PCB 126	PeCB 328	26.20	*	*	*	-0.0012	3	no	0.977	-
	326	NotFnd	*	no	*	-0.00095	72	no	1.23	-
95 PCB 155	PeCB 328	27.72	*	*	*	-0.0012	*	no	0.977	-
	360	NotFnd	*	no	*	-0.00171	*	no	0.997	-
96 PCB 152	HxCB 362	19.63	*	*	*	-0.00171	*	no	0.813	-
	360	NotFnd	*	no	*	-0.0021	*	no	0.65	-
97 PCB 150	HxCB 362	19.78	*	*	*	-0.0021	*	no	0.761	-
	360	NotFnd	*	no	*	-0.00263	*	no	0.662	-
98 PCB 136	HxCB 362	19.88	*	no	*	-0.00263	*	no	0.551	-
	360	20.18	9535	1.29	16920	0.021811				
99 PCB 145	HxCB 362	20.18	7385	yes						
	360	NotFnd	*	*	*	-0.00224	39	no	0.761	-
100 PCB 148	HxCB 362	20.41	*	no	*	-0.00258	37	no	0.662	-
	360	NotFnd	*	*	*	-0.0031	*	no	0.519	-
101 PCB 151/135	HxCB 362	21.55	*	no	*	-0.0031	*	no	0.618	-
	360	22.03	25480	1.3	45014	0.085082				
102 PCB 154	HxCB 362	22.04	19534	yes						
	360	22.23	1653	1.14	3102	0.004925				
103 PCB 144	HxCB 362	22.22	1449	yes						
	360	22.49	3476	1.25	6246	0.0109				
104 PCB 147/149	HxCB 362	22.51	2770	yes						
	360	22.80	90862	1.34	158920	0.235445				
105 PCB 134/143	HxCB 362	22.80	68058	yes						
	360	22.97	2324	1.35	4051	0.006784				
106 PCB 139/140	HxCB 362	23.06	1728	yes						
	360	23.31	1161	1.21	2120	0.003061				
107 PCB 131	HxCB 362	23.31	960	yes						
	360	NotFnd	*	*	*	-0.00222	5	no	0.68	-
108 PCB 142	HxCB 362	23.49	*	no	*	-0.00222	6	no	0.537	-
	360	NotFnd	*	*	*	-0.00191	*	no	0.626	-
109 PCB 132	HxCB 362	23.65	*	no	*	-0.00191	*	no	0.561	-
	360	23.88	12812	1.33	22454	0.039317				
110 PCB 133	HxCB 362	23.88	9642	yes						
	360	24.29	2398	1.41	4102	0.006128				
111 PCB 165	HxCB 362	24.31	1704	yes						
	360	NotFnd	*	*	*	-0.00182	61	no	0.657	-
112 PCB 146	HxCB 362	24.66	*	no	*	-0.00156	57	no	0.765	-
	360	24.86	25670	1.32	45133	0.062845				
113 PCB 161	HxCB 362	24.87	19463	yes						
	360	NotFnd	*	*	*	-0.00169	118	no	0.705	-
114 PCB 153/168	HxCB 362	25.01	*	no	*	-0.00123	110	no	0.97	-
	360	25.43	212525	1.31	374232	0.431013				
115 PCB 141	HxCB 362	25.46	161707	yes						
	360	25.61	4200	1.34	7345	0.010579				
116 PCB 130	HxCB 362	25.60	3145	yes						
	360	25.98	5317	1.41	9096	0.01447				
117 PCB 137	HxCB 362	25.99	3779	yes						
	360	26.20	1127	1.39	1937	0.00313				
118 PCB 164	HxCB 362	26.19	810	yes						
	360	26.29	3987	1.25	7164	0.007701				
119 PCB 138/163/129	HxCB 362	26.28	3176	yes						
	360	26.59	149316	1.3	264259	0.368109				
120 PCB 160	HxCB 362	26.61	114943	yes						
	360	NotFnd	*	*	*	-0.00169	651	no	0.705	-
121 PCB 158	HxCB 362	26.78	*	no	*	-0.00145	638	no	0.822	-
	360	26.96	13742	1.41	23517	0.022979				
122 PCB 128/166	HxCB 362	26.96	9775	yes						
	360	27.80	14261	1.23	25894	0.03284				
123 PCB 159	HxCB 362	27.79	11633	yes						
	360	NotFnd	*	*	*	-0.00119	58	no	1.004	-
124 PCB 162	HxCB 362	28.76	*	no	*	-0.00154	54	no	0.774	-
	360	NotFnd	*	*	*	-0.00126	55	no	1.179	-
125 PCB 167	HxCB 362	29.06	*	no	*	-0.00135	*	no	1.101	-
	360	29.53	5964	1.18	11003	0.008708				
126 PCB 156/157	HxCB 362	29.53	5039	yes						
	360	30.68	13331	1.26	23900	0.019				
127 PCB 169	HxCB 362	30.69	10569	yes						
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128 PCB 188	HxCB 362	34.11	*	no	*	-0.00156	37	no	1.017	-
	394	NotFnd	*	*	*	-0.00187	36	no	0.954	-
129 PCB 179	HpCB 396	24.23	*	no	*	-0.00187	*	no	1.012	-
	394	24.52	11774	1.05	22992	0.026472				
130 PCB 184	HpCB 396	24.52	11218	yes						
	394	NotFnd	*	*	*	-0.0018	45	no	1.047	-
131 PCB 176	HpCB 396	25.00	*	no	*	-0.00196	45	no	0.961	-
	394	25.32	3475	1.03	6835	0.008023				
132 PCB 186	HpCB 396	25.32	3360	yes						
	394	NotFnd	*	*	*	-0.00184	*	no	1.027	-
133 PCB 178	HpCB 396	25.75	*	no	*	-0.0021	12	no	0.899	-
	394	27.00	5880	1.16	10935	0.018257				
134 PCB 175	HpCB 396	27.01	5054	yes						
	394	NotFnd	*	*	*	-0.00261	21	no	0.722	-
135 PCB 187	HpCB 396	27.61	*	no	*	-0.00251	19	no	0.753	-
	394	27.87	37497	1.07	72529	0.120921				
136 PCB 182	HpCB 396	27.88	35031	yes						
	394	NotFnd	*	*	*	-0.00261	137	no	0.723	-
	396	28.10	*	no	*	-0.00253	133	no	0.747	-

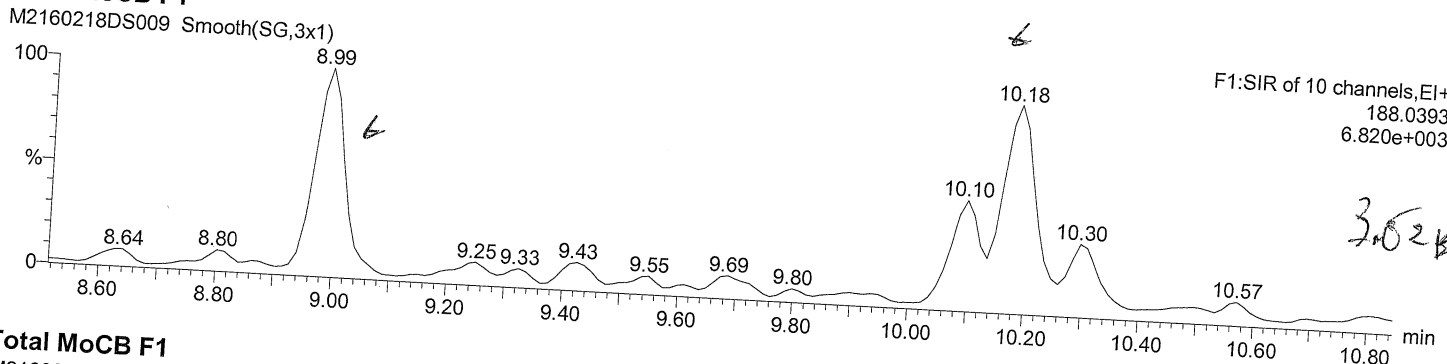
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185 PCB 180L	406	32.09	71317	1.11	135441	0.140653		4987				
	408	32.09	64124	yes			0	3625	no	1.349	71	
186 PCB 170L	406	33.42	62775	1.09	120199	0.142639		2960				
	408	33.42	57424	yes			0	3127	no	1.18	72	
187 PCB 189L	406	36.82	139725	1.06	271007	0.175931		2515				
	408	36.83	131281	yes			0	3185	no	2.157	89	
188 PCB 202L	440	29.23	56559	0.9	119268	0.117673		3108				
	442	29.27	62709	yes			0	3305	no	1.419	59	
189 PCB 205L	440	39.71	89654	0.93	186327	0.170405		3613				
	442	39.73	96674	yes			0	1921	no	1.531	86	
190 PCB 208L	474	36.27	50056	0.78	114332	0.140523		2333				
	476	36.28	64276	yes			0	1993	no	1.139	71	
191 PCB 206L	474	41.68	38439	0.81	86034	0.158629		2339				
	476	41.73	47595	yes			0	1429	no	0.76	80	
192 PCB 209L	510	43.54	43637	1.2	80109	0.154888		1599				
	512	43.53	36472	yes			0	1951	no	0.724	78	
193 PCB 28L	268	14.41	167545	1.04	327910	0.205584		1697				
PCB Cleanup Standard	270	14.41	160365	yes			0.001	673	no	2.039	93	
194 PCB 111L	338	21.83	105185	1.65	168871	0.182806		1106				
PCB Cleanup Standard	340	21.84	63686	yes			0	2803	no	1.343	83	
195 PCB 178L	406	26.98	43963	1.06	85442	0.167298		3574				
PCB Cleanup Standard	408	26.97	41479	yes			0	1532	no	0.733	76	
196 PCB 31L	268	NotFnd	*	*	*			3089				
PCB Audit Standard	270	14.24	*	no			0.001		no	1.934		
197 PCB 95L	338	NotFnd	*	*	*							
PCB Audit Standard	340	17.73	*	no			0		no	0.946		
198 PCB 153L	372	NotFnd	*	*	*							
PCB Audit Standard	374	25.40	*	no			0		no	1.225		
199 PCB 9L	234	11.18	1154165	1.63	1864177	9.496049						
PCB Recovery Standard	236	11.19	710012	yes			-	10076	no	-	-	
200 PCB 52L	302	15.35	384435	0.8	862382	6.789766		10131				
PCB Recovery Standard	304	15.36	477948	yes			-	7724	no	-	-	
201 PCB 101L	338	19.77	468814	1.62	758386	6.862019		7544				
PCB Recovery Standard	340	19.76	289572	yes			-	13247	no	-	-	
202 PCB 138L	372	26.57	434361	1.3	768308	7.092558		17097				
PCB Recovery Standard	374	26.56	333947	yes			-	19094	no	-	-	
203 PCB 194L	440	39.18	381268	0.94	787312	7.237078		7235				
PCB Recovery Standard	442	39.17	406044	yes			-	8005	no	-	-	
Chlorobiphenyls								9780				
Dichlorobiphenyls					-0.00062		0					
Trichlorobiphenyls					0.048018		3	-0.00493				
Tetrachlorobiphenyls					0.773702		14	-0.00385				
Pentachlorobiphenyls					1.18672		22	-0.00371				
Hexachlorobiphenyls					0.673546		18	-0.00182				
Heptachlorobiphenyls					1.394827		20	-0.00329				
Octachlorobiphenyls					0.439538		11	-0.00351				
Nonachlorobiphenyls					0.033062		4	-0.00275				
Decachlorobiphenyl					-0.00221		0	-0.00221				
PCB (total)					-0.00294		0	-0.00294				
					4.549413							

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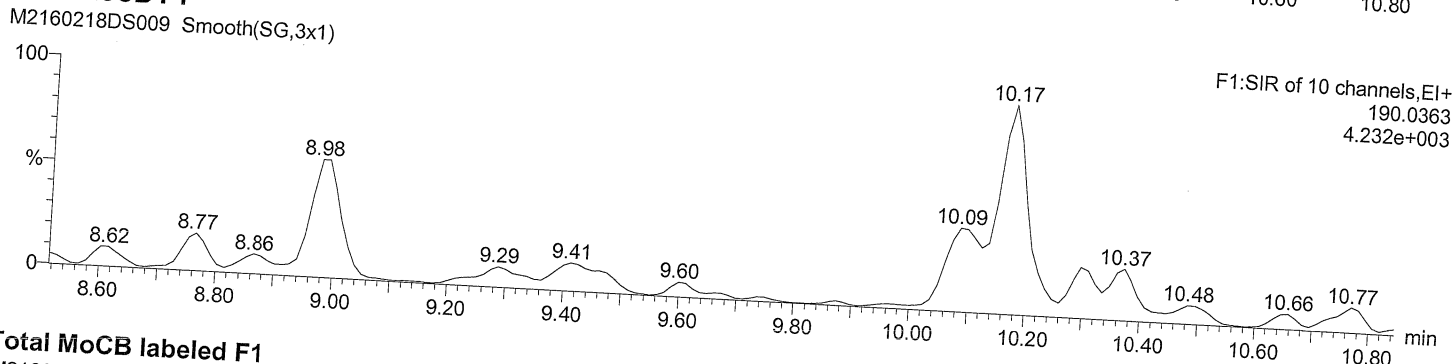
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Description: BRP510-01R
Vial: 9
Date: 18-FEB-2016
Time: 01:09:02

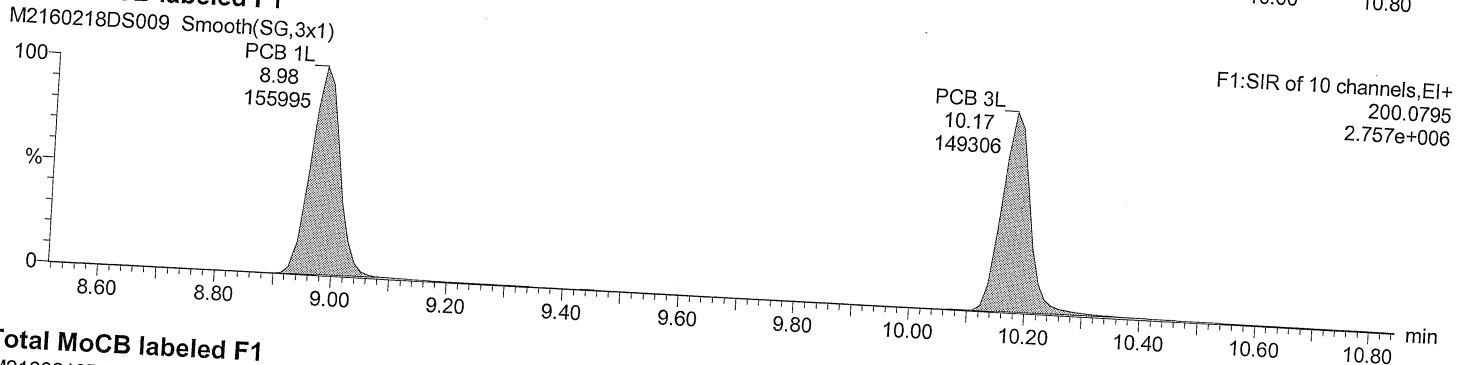
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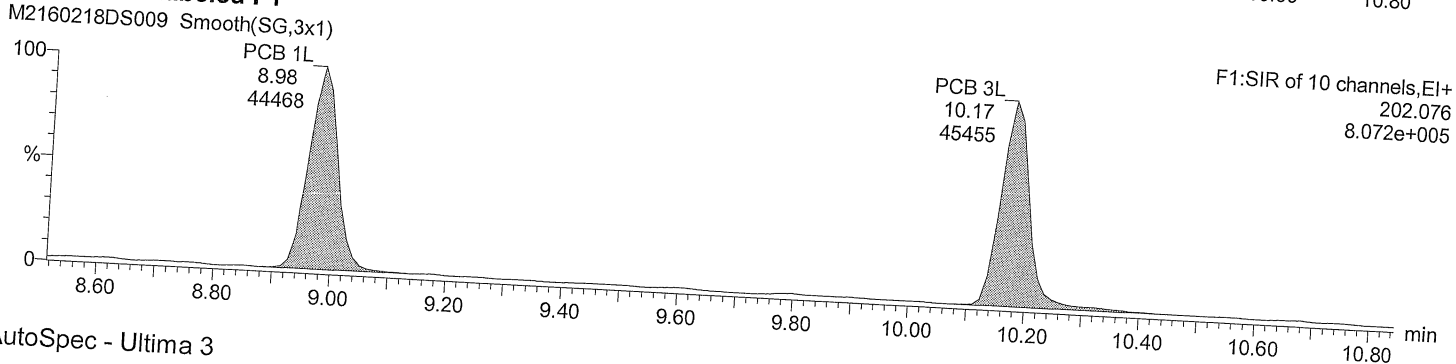
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Total MoCB labeled F1



Total MoCB labeled F1

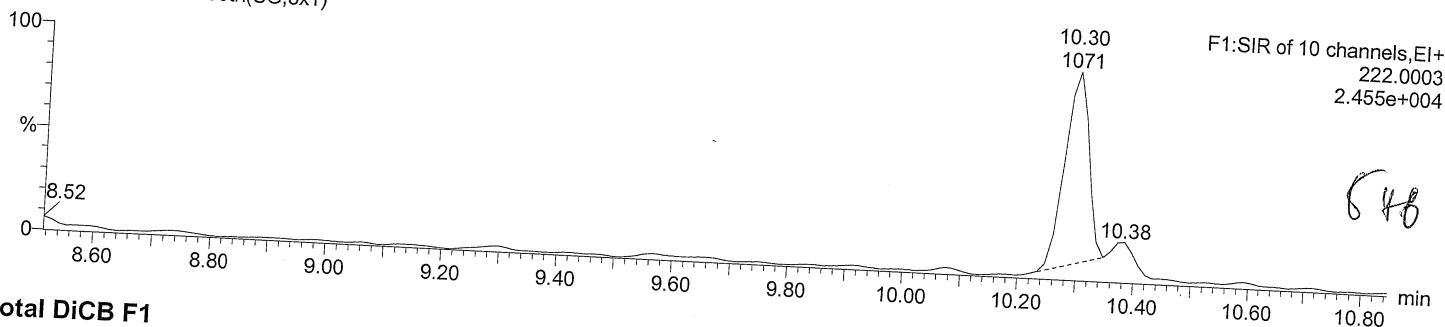


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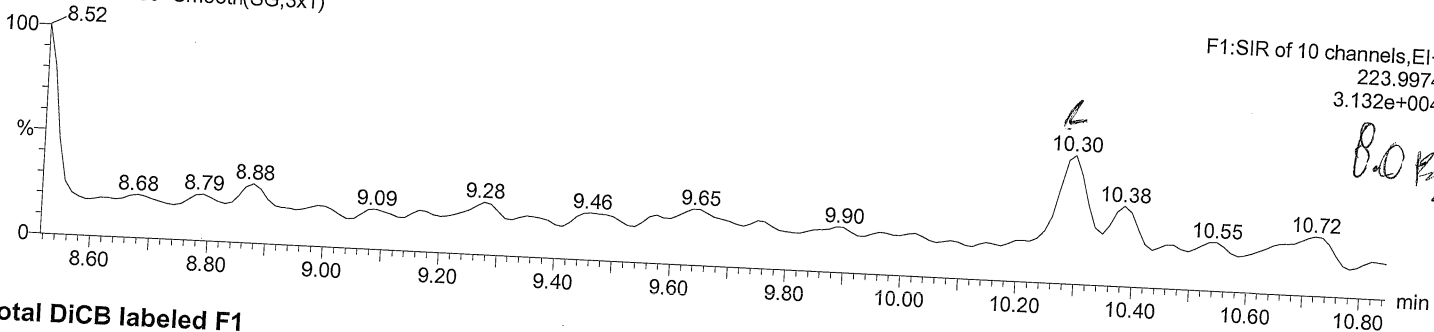
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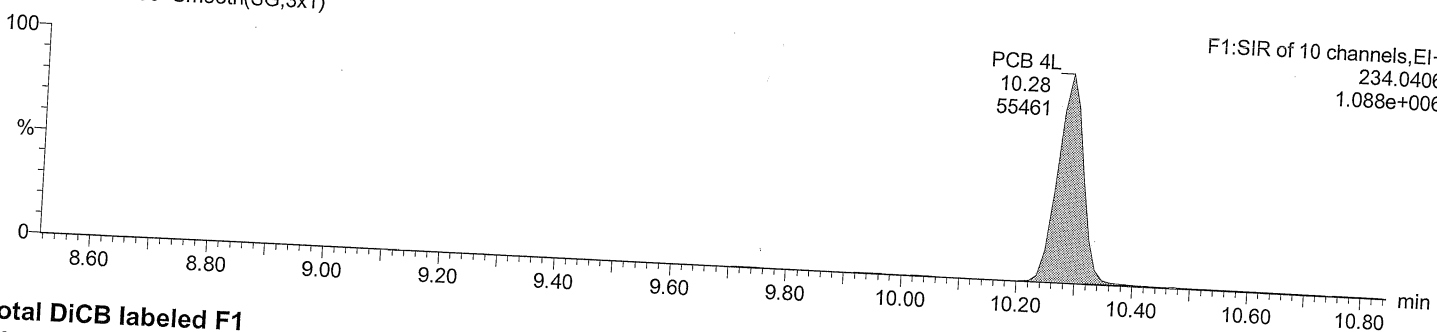
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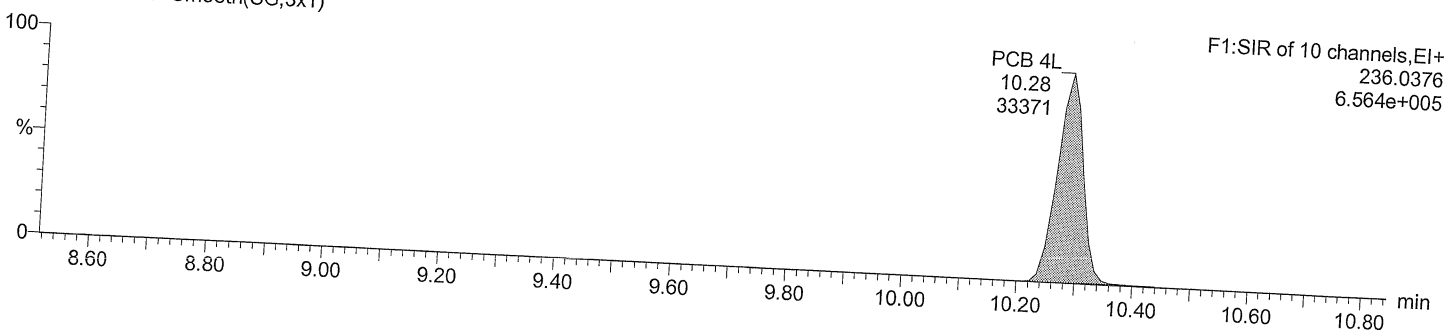
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Total DiCB labeled F1

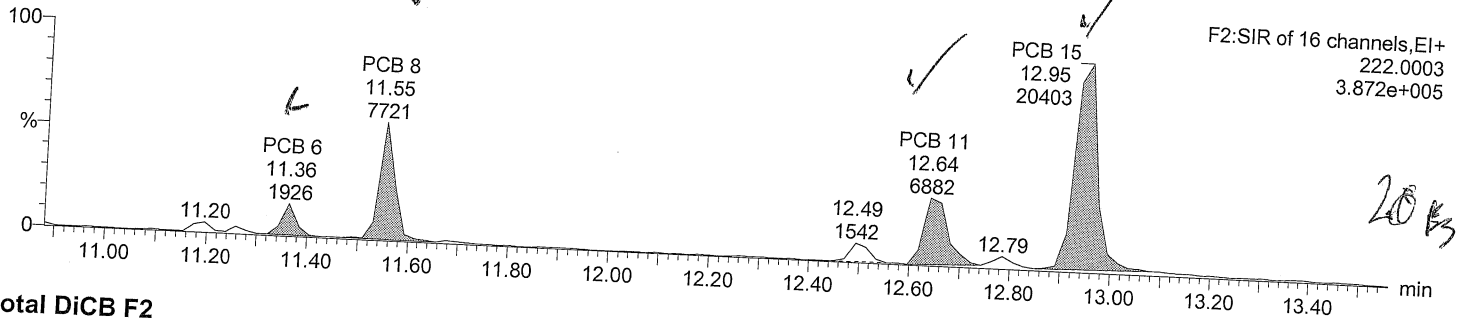
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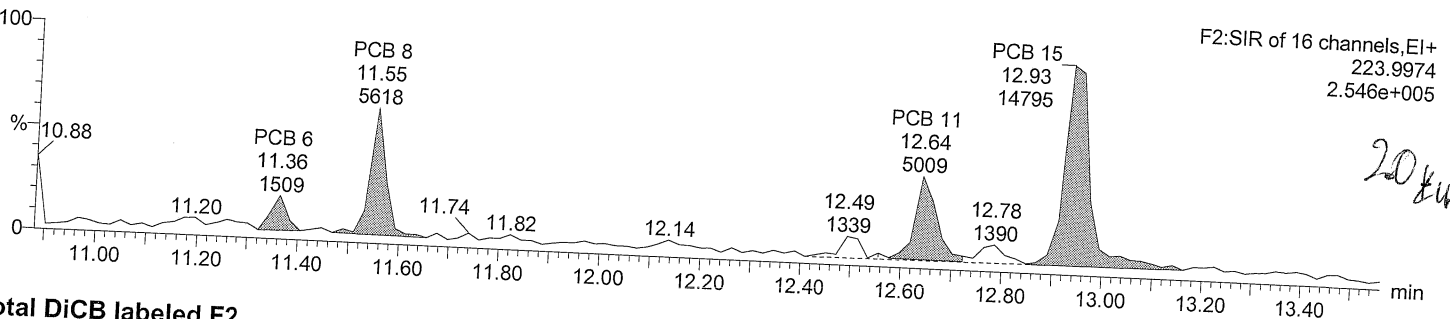
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Vial: 9
Date: 18-FEB-2016
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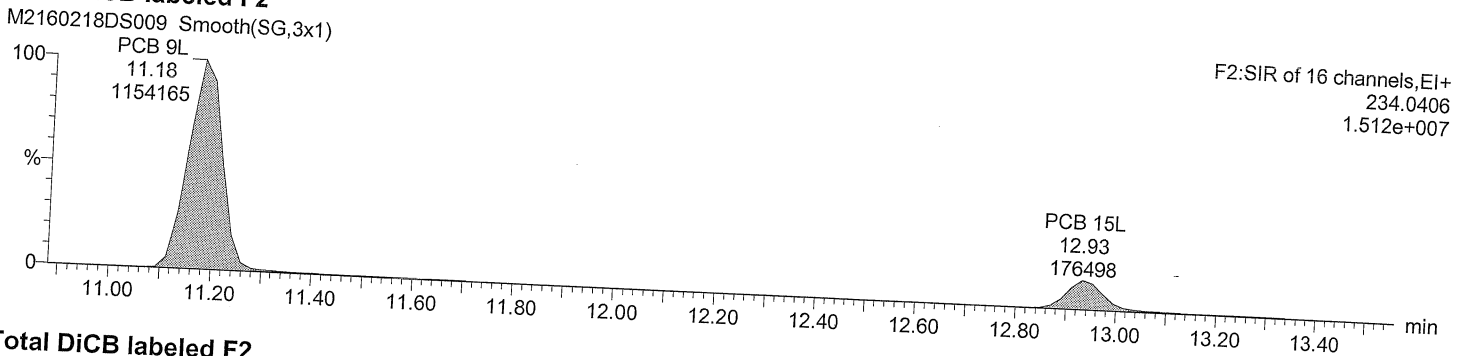
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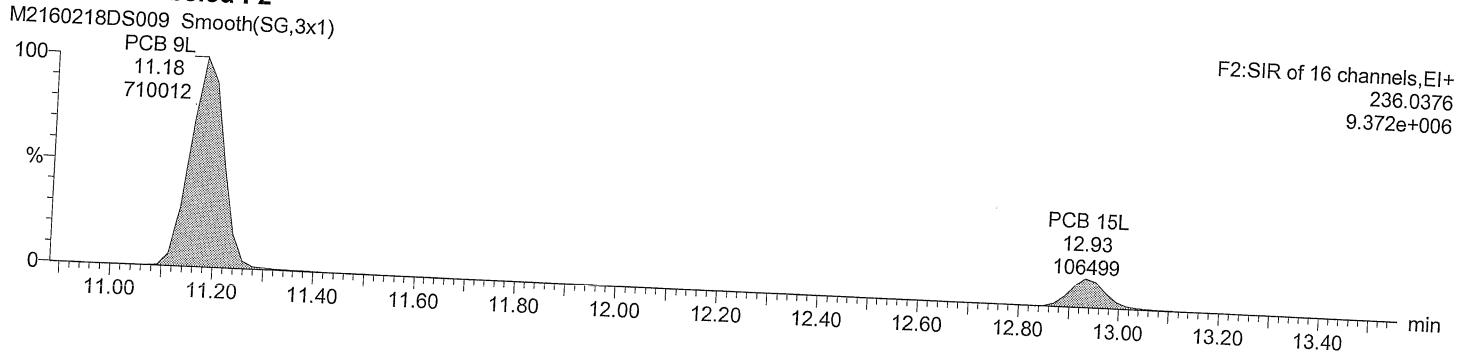
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Total DiCB labeled F2



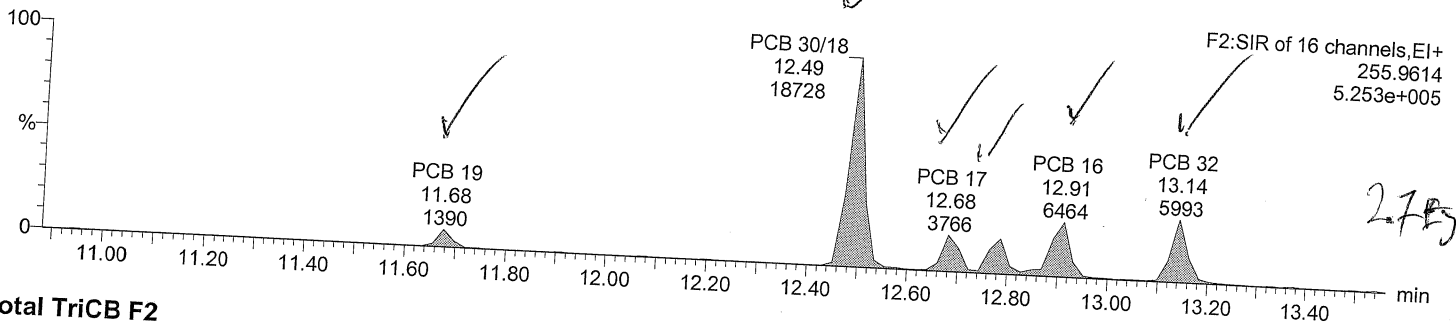
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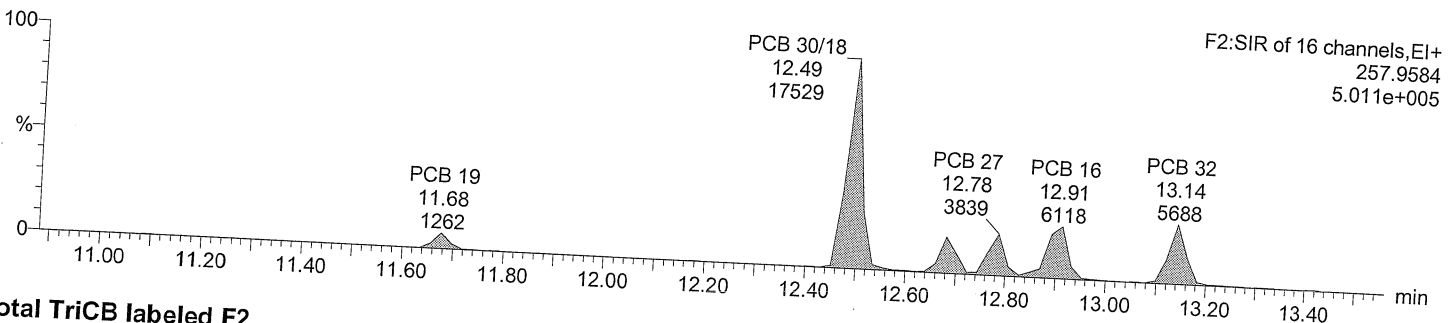
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Description: BRP510-01R
Vial: 9
Date: 18-FEB-2016
Time: 01:09:02

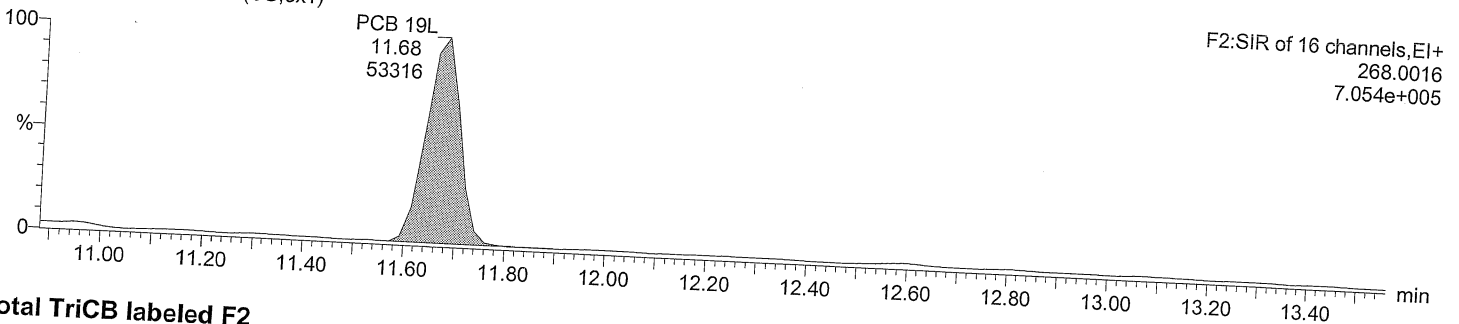
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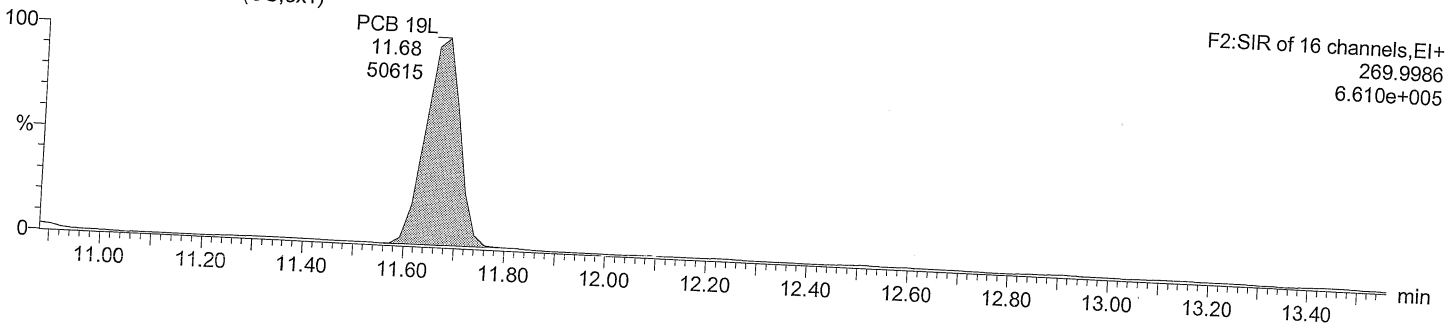
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Total TriCB labeled F2
M2160218DS009 Smooth(SG,3x1)



Total TriCB labeled F2
M2160218DS009 Smooth(SG,3x1)

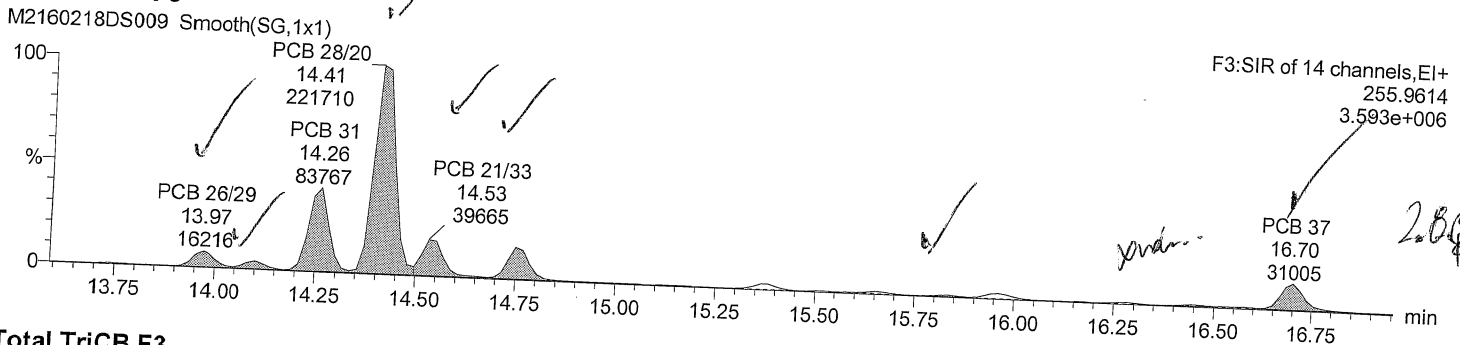


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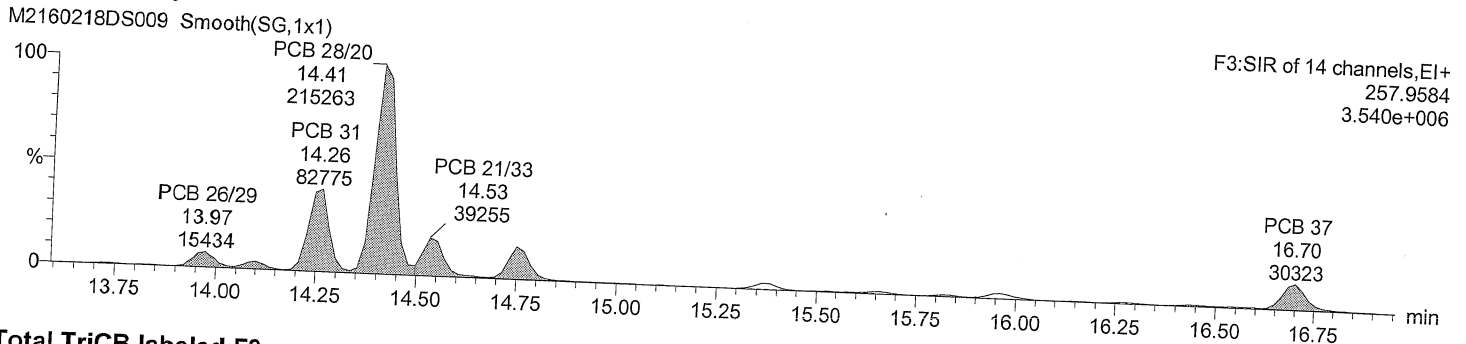
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Description: BRP510-01R
Vial: 9
Date: 18-FEB-2016
Time: 01:09:02

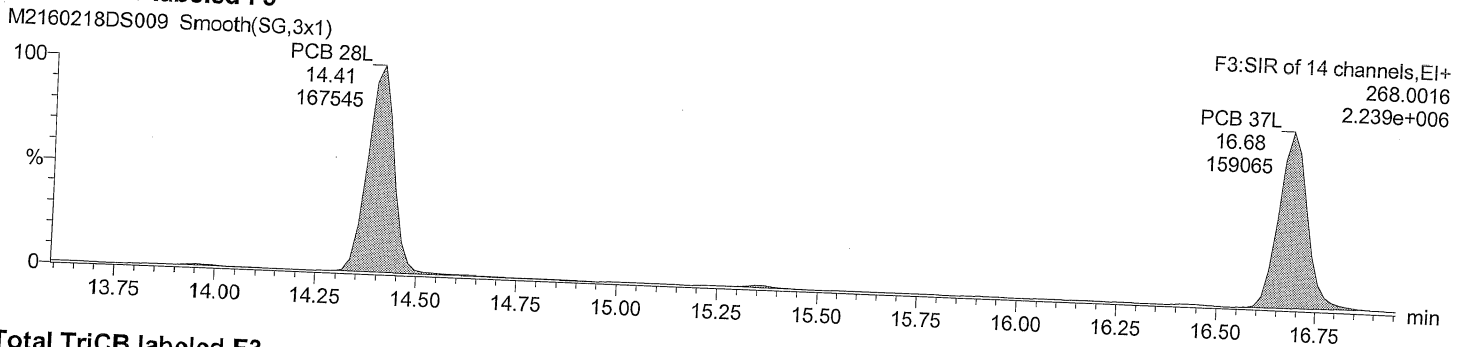
Total TriCB F3



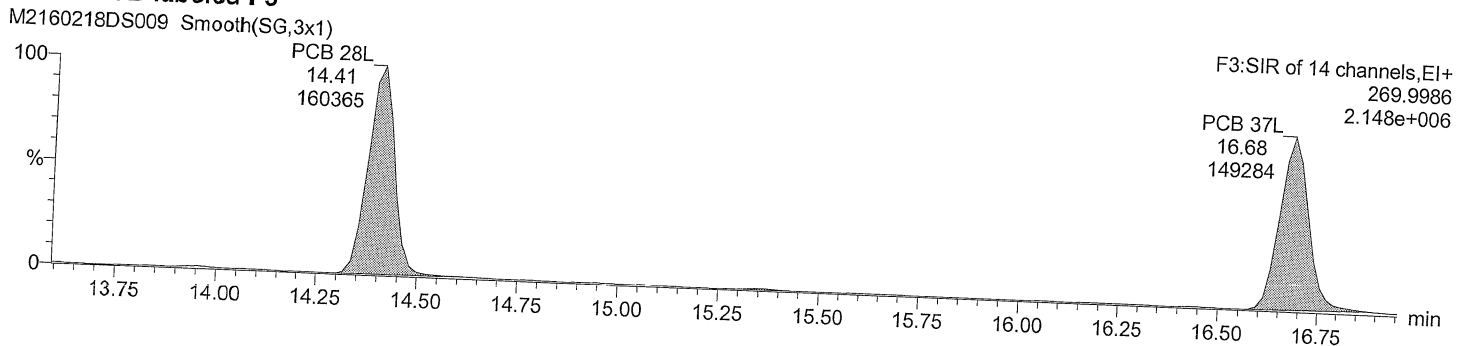
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



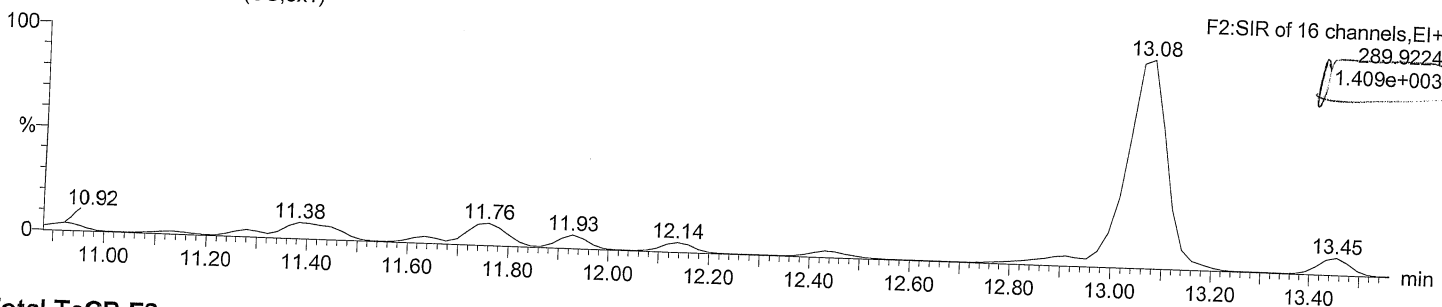
Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 01:21:44 PM Eastern Standard Time
Printed: February 20, 2016 01:24:13 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
Description: BRP510-01R
Vial: 9
Date: 18-FEB-2016
Time: 01:09:02

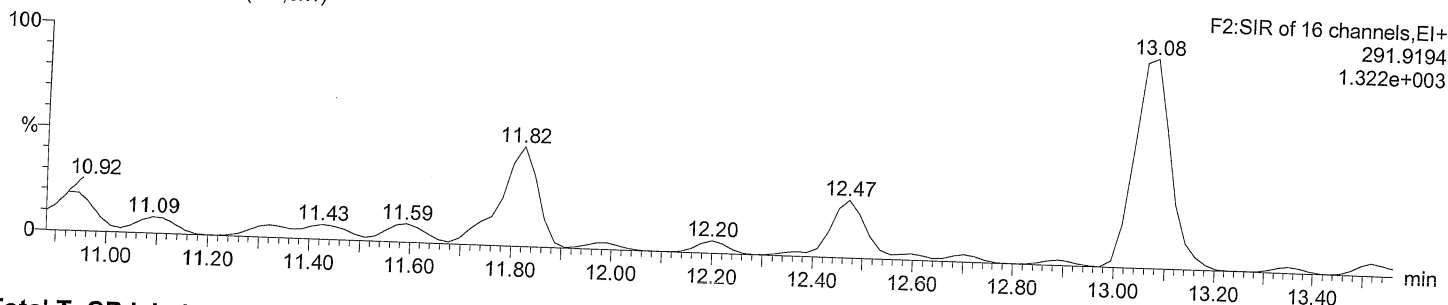
Total TeCB F2

M2160218DS009 Smooth(SG,3x1)



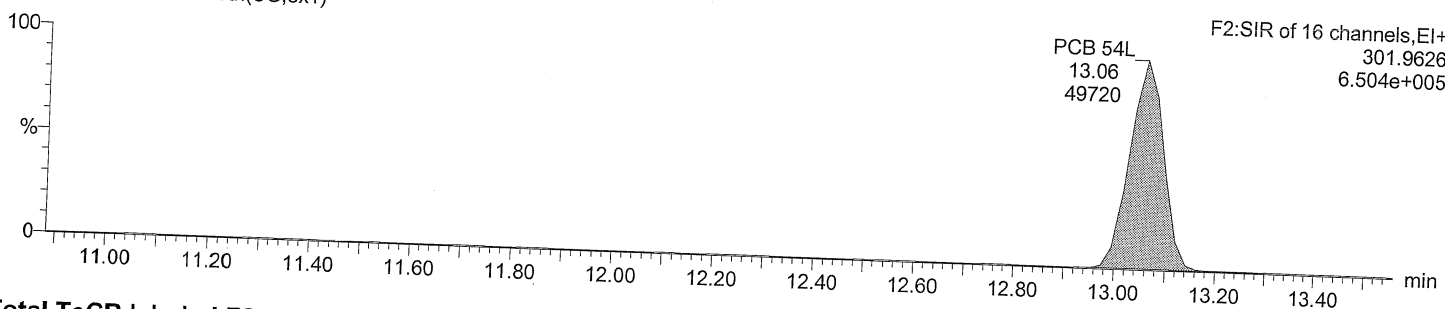
Total TeCB F2

M2160218DS009 Smooth(SG,3x1)



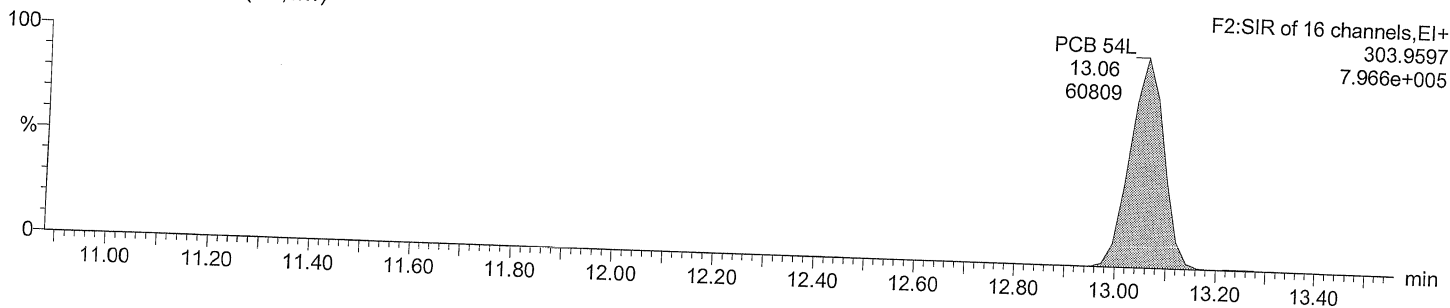
Total TeCB labeled F2

M2160218DS009 Smooth(SG,3x1)



Total TeCB labeled F2

M2160218DS009 Smooth(SG,3x1)



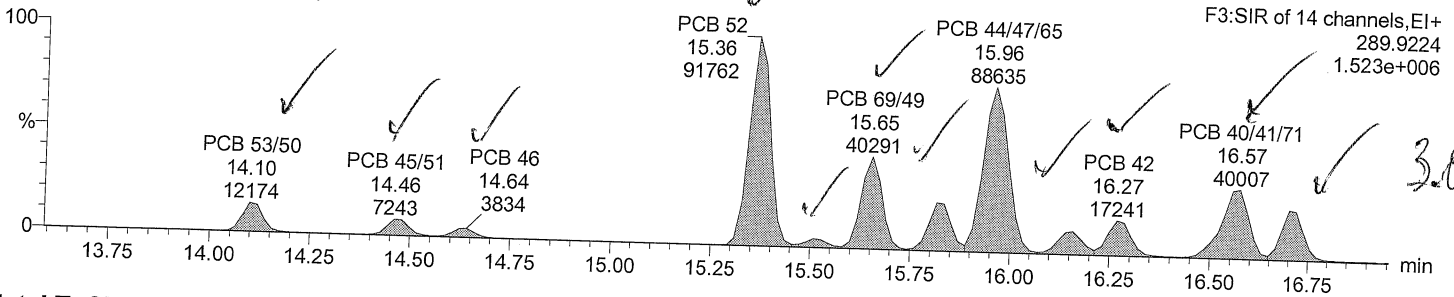
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Last Altered: February 20, 2016 01:21:44 PM Eastern Standard Time
Printed: February 20, 2016 01:24:13 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
Description: BRP510-01R
Vial: 9
Date: 18-FEB-2016
Time: 01:09:02

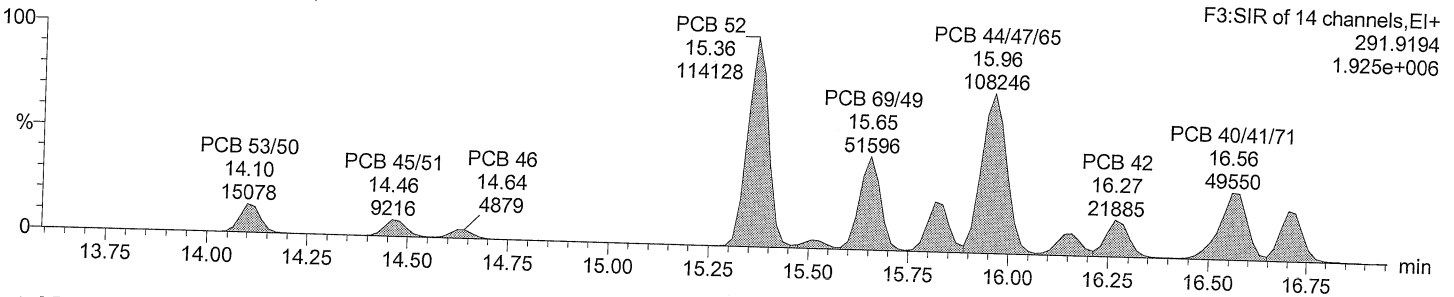
Total TeCB F3

M2160218DS009 Smooth(SG,1x1)



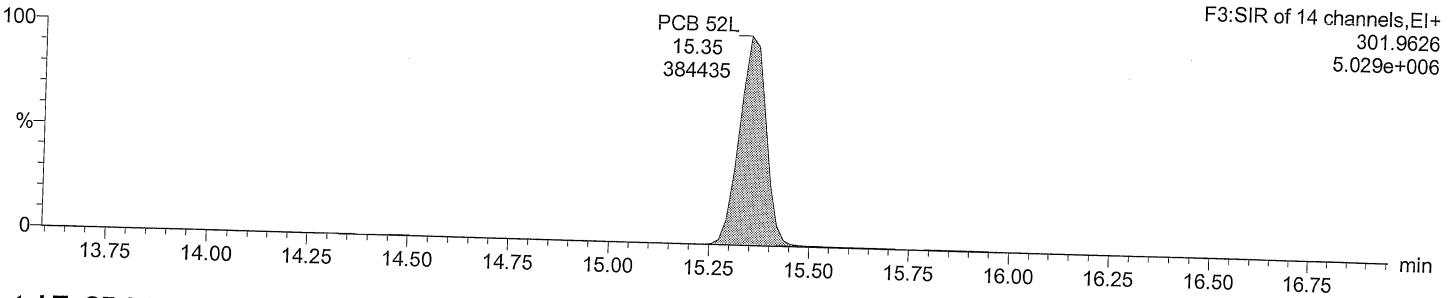
Total TeCB F3

M2160218DS009 Smooth(SG,1x1)



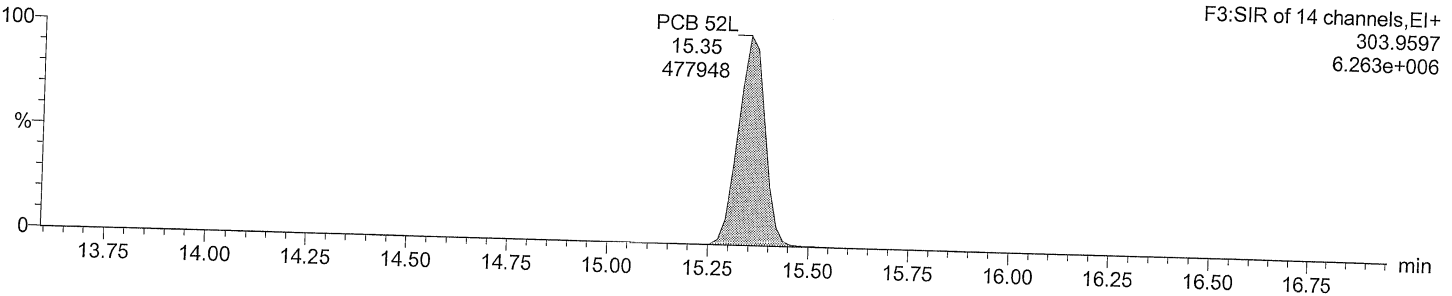
Total TeCB labeled F3

M2160218DS009 Smooth(SG,3x1)



Total TeCB labeled F3

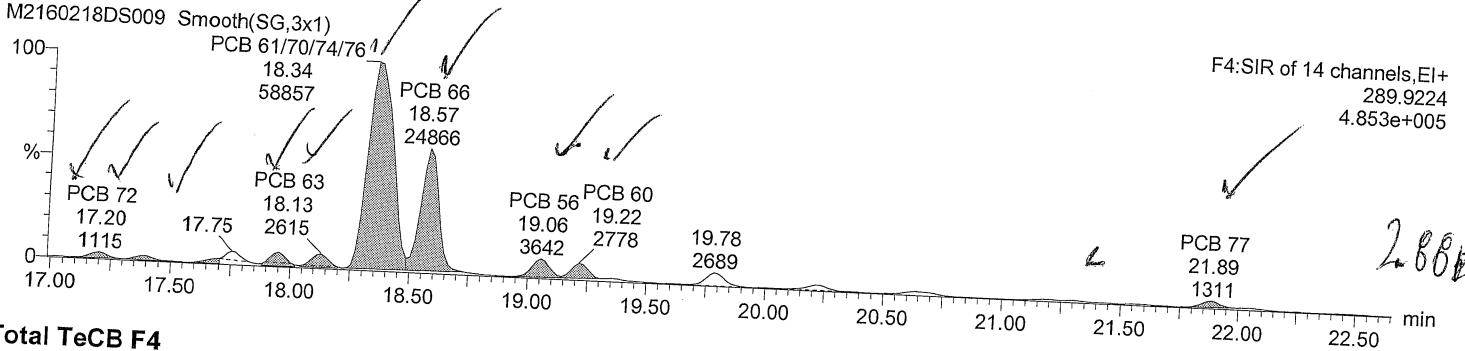
M2160218DS009 Smooth(SG,3x1)



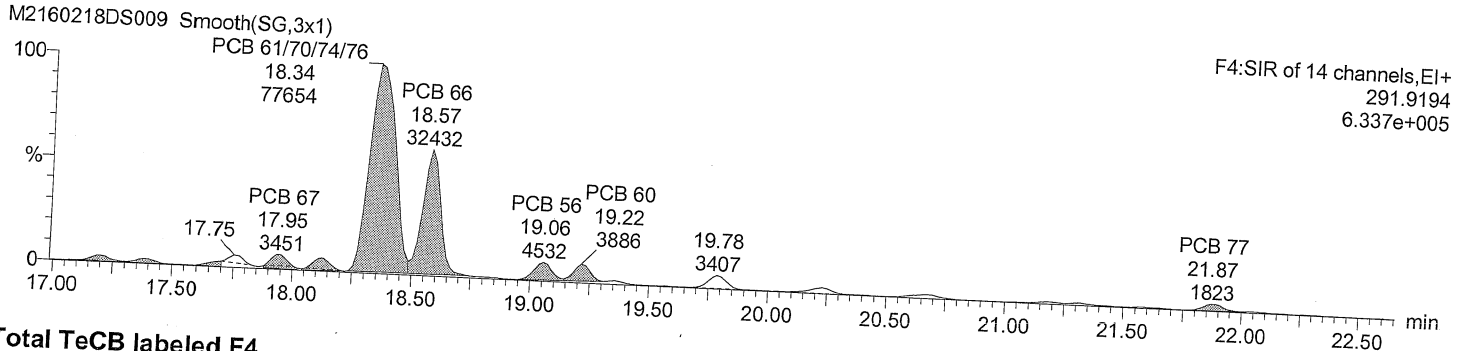
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Last Altered: February 20, 2016 01:21:44 PM Eastern Standard Time
Printed: February 20, 2016 01:24:13 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
Description: BRP510-01R
Vial: 9
Date: 18-FEB-2016
Time: 01:09:02

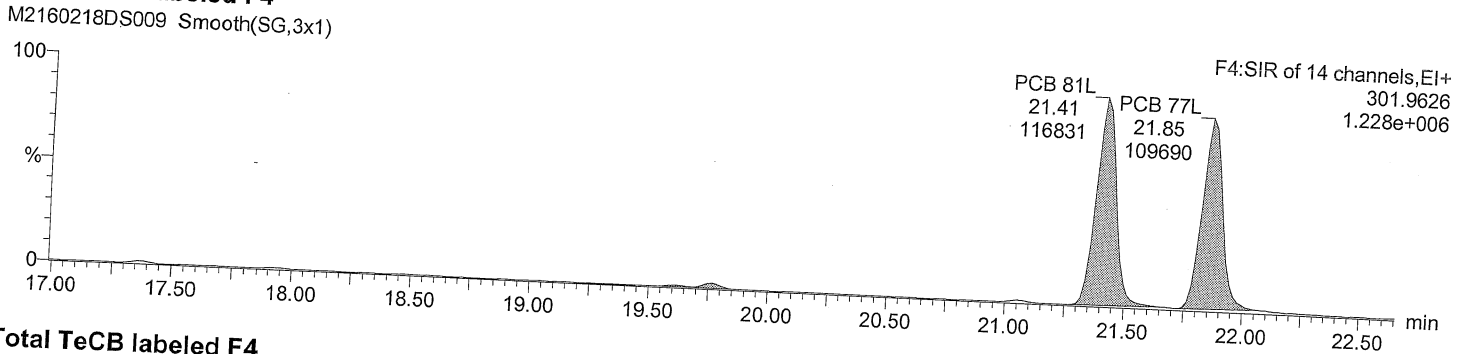
Total TeCB F4



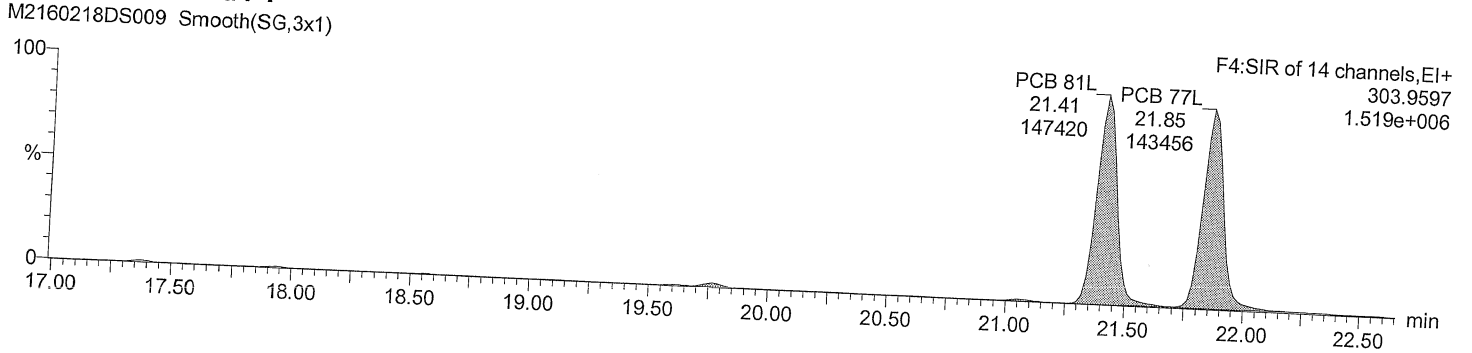
Total TeCB F4



Total TeCB labeled F4



Total TeCB labeled F4



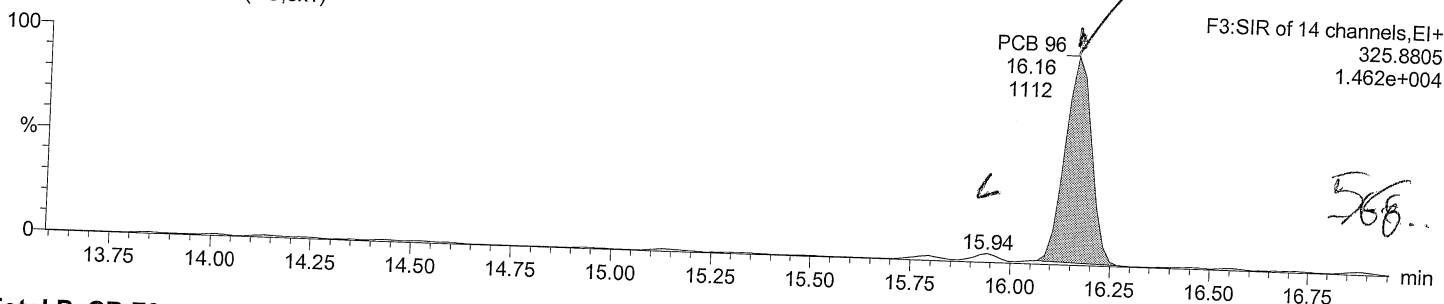
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Last Altered: February 20, 2016 01:21:44 PM Eastern Standard Time
Printed: February 20, 2016 01:24:13 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
Description: BRP510-01R
Vial: 9
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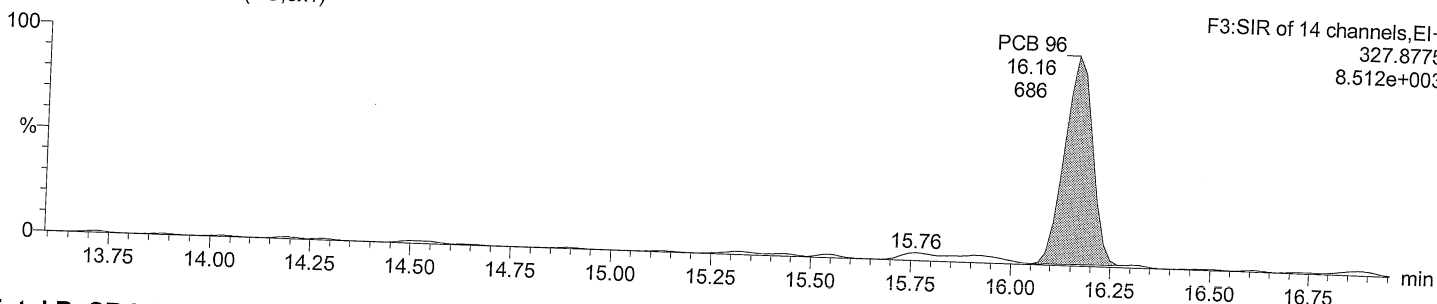
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M2160218DS009 Smooth(SG,3x1)



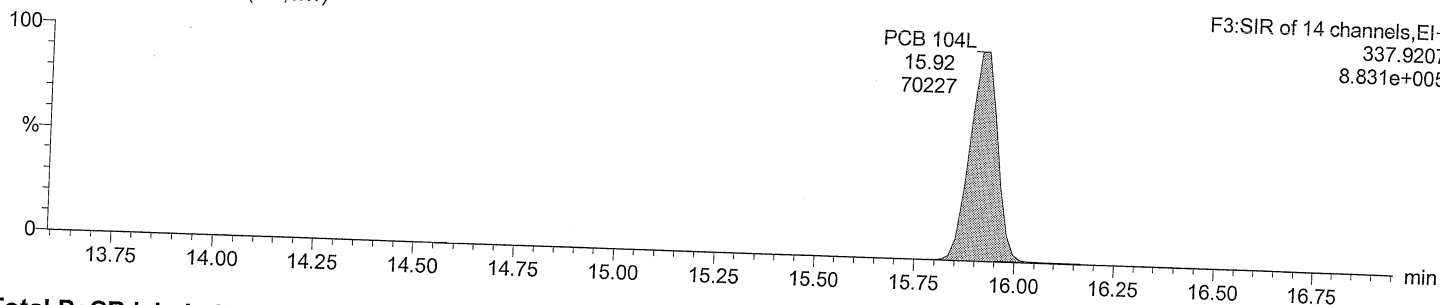
Total PeCB F3

M2160218DS009 Smooth(SG,3x1)



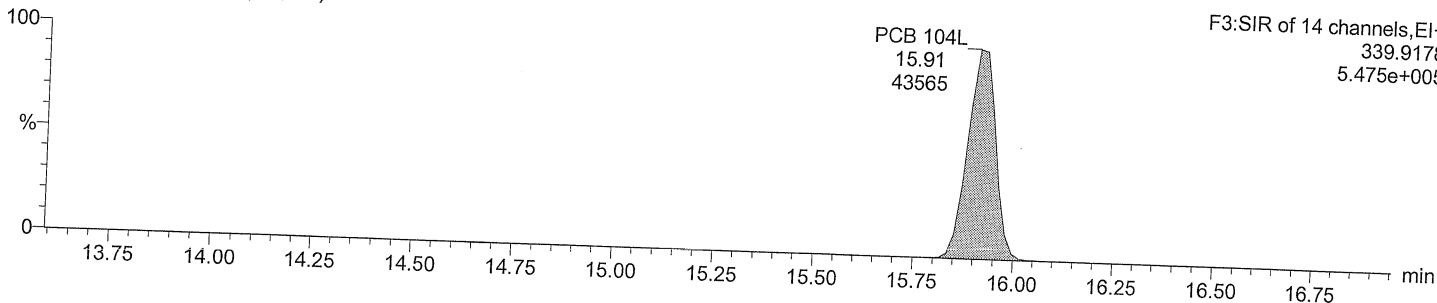
Total PeCB labeled F3

M2160218DS009 Smooth(SG,3x1)



Total PeCB labeled F3

M2160218DS009 Smooth(SG,3x1)

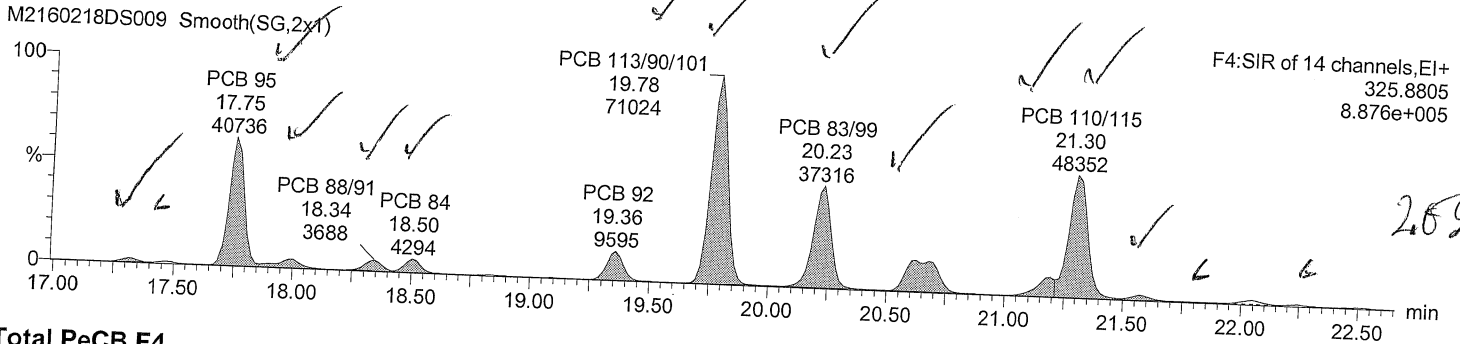


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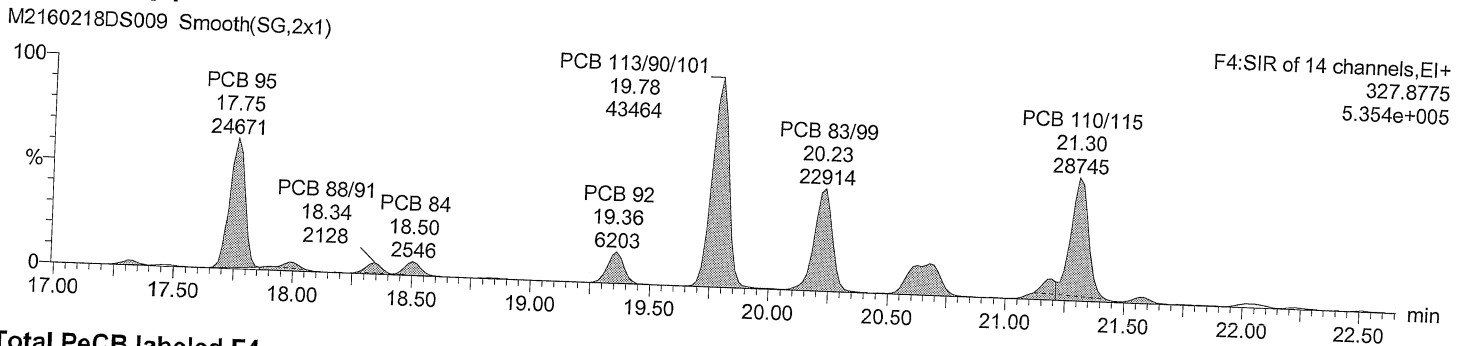
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Printed: February 20, 2016 01:24:13 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
Description: BRP510-01R
Vial: 9
Date: 18-FEB-2016
Time: 01:09:02

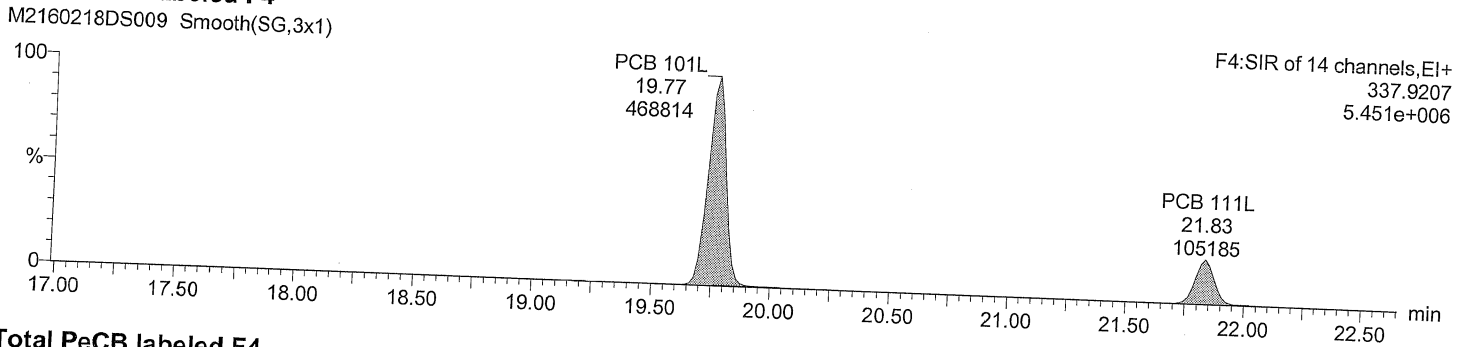
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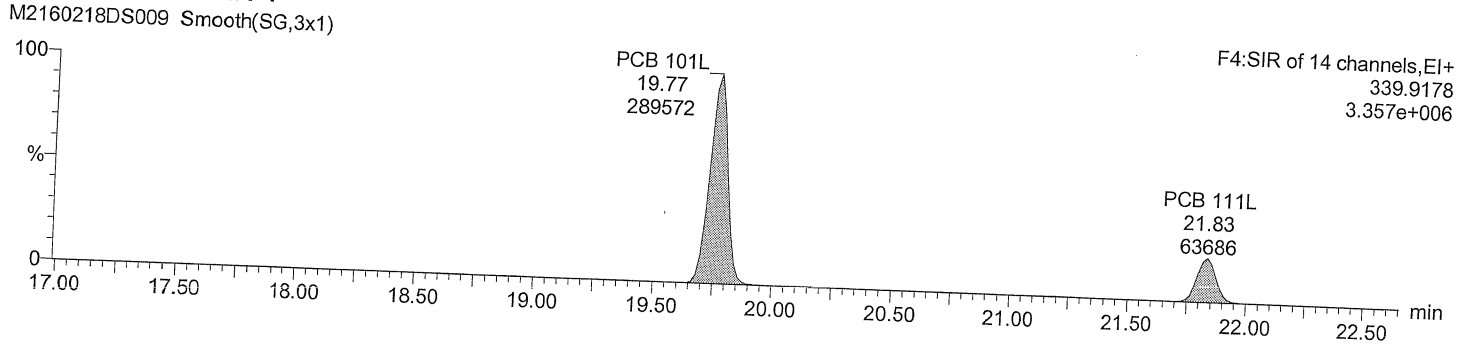
Total PeCB F4



Total PeCB labeled F4



Total PeCB labeled F4



Acquired Date

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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

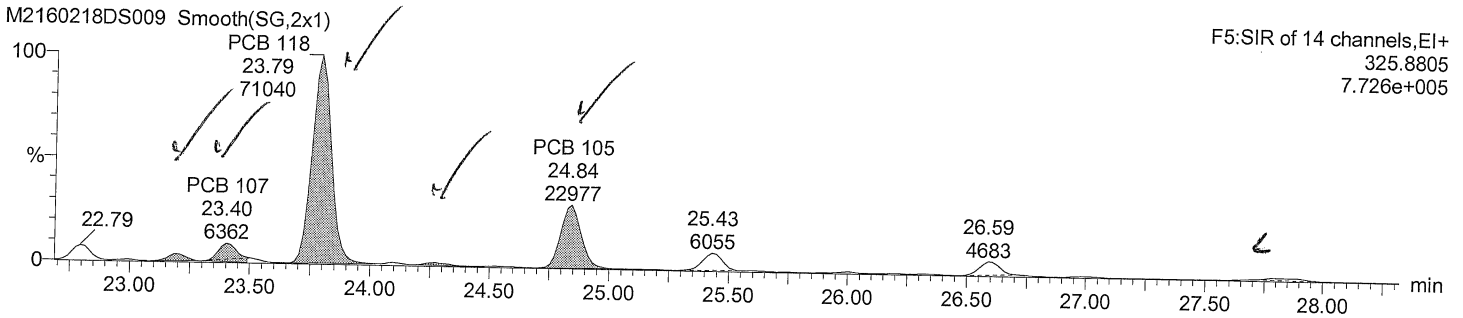
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Vial: 9

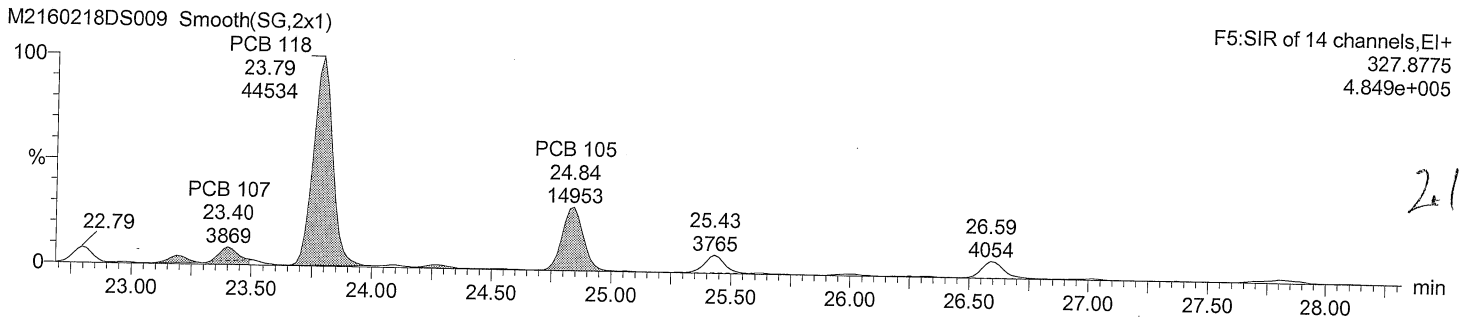
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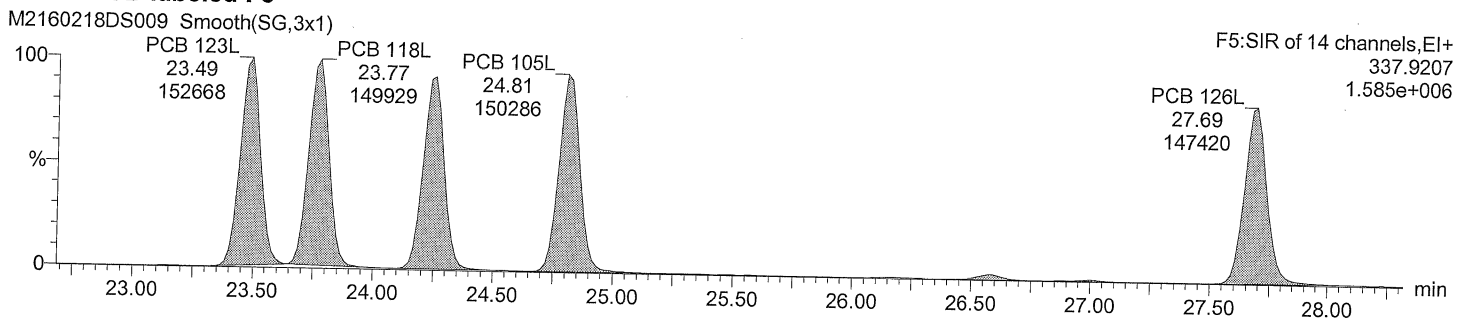
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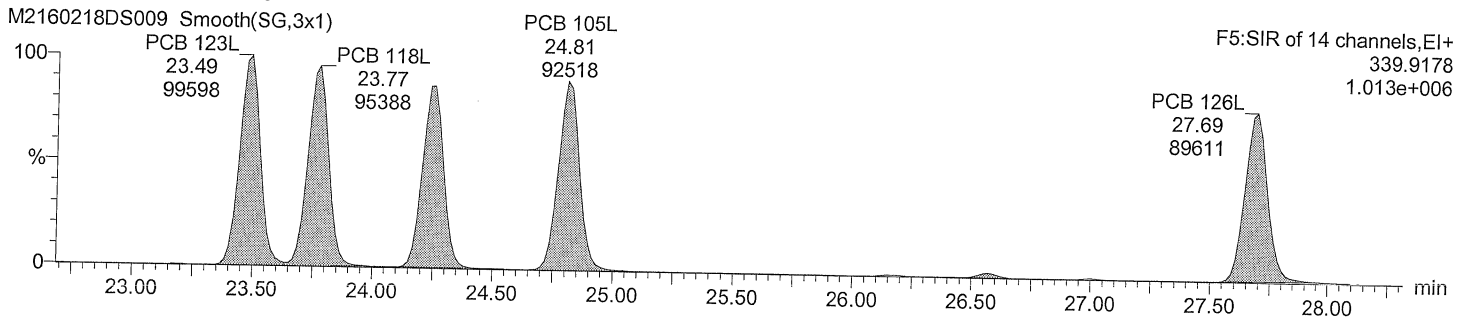
Total PeCB F5



Total PeCB labeled F5



Total PeCB labeled F5



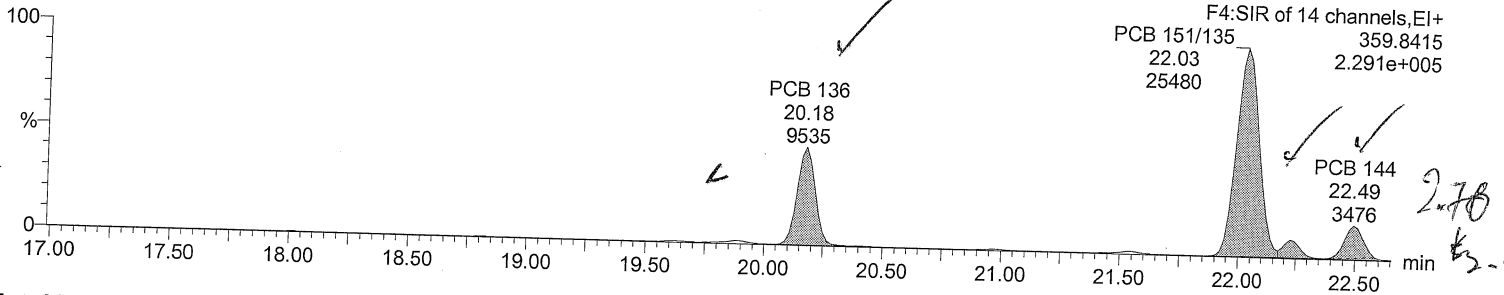
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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
Description: BRP510-01R
Vial: 9
Date: 18-FEB-2016
Time: 01:09:02

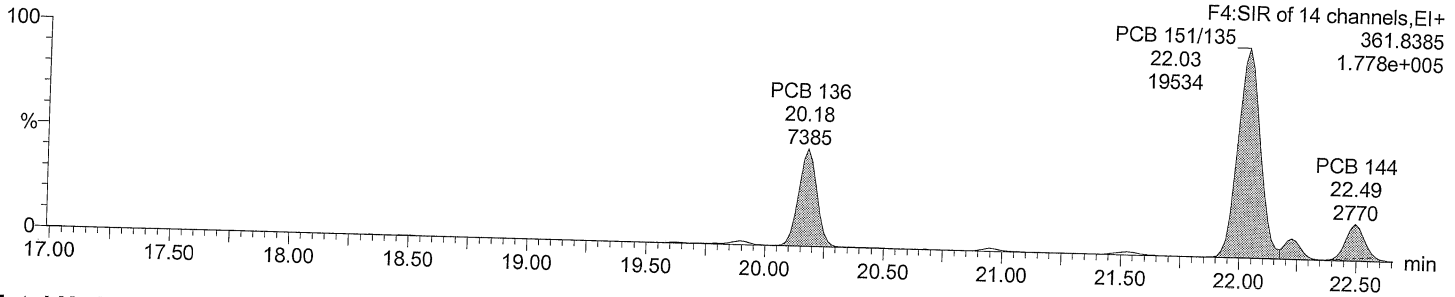
Total HxCB F4

M2160218DS009 Smooth(SG,3x1)



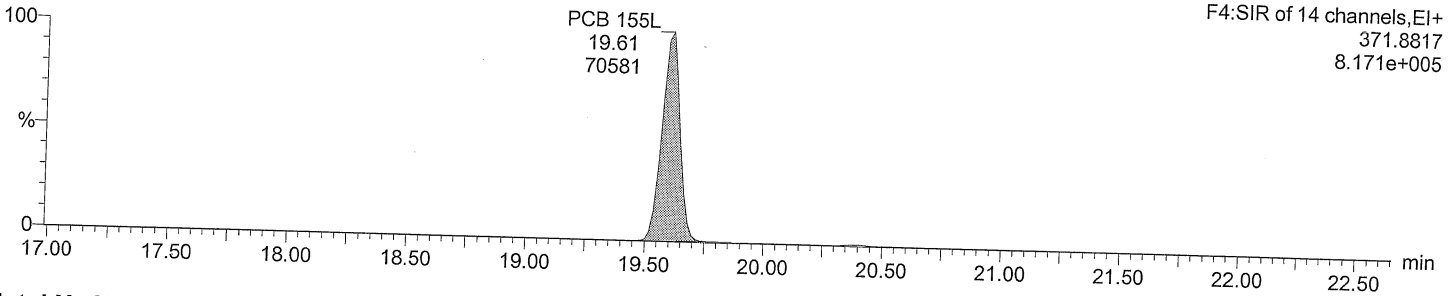
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M2160218DS009 Smooth(SG,3x1)



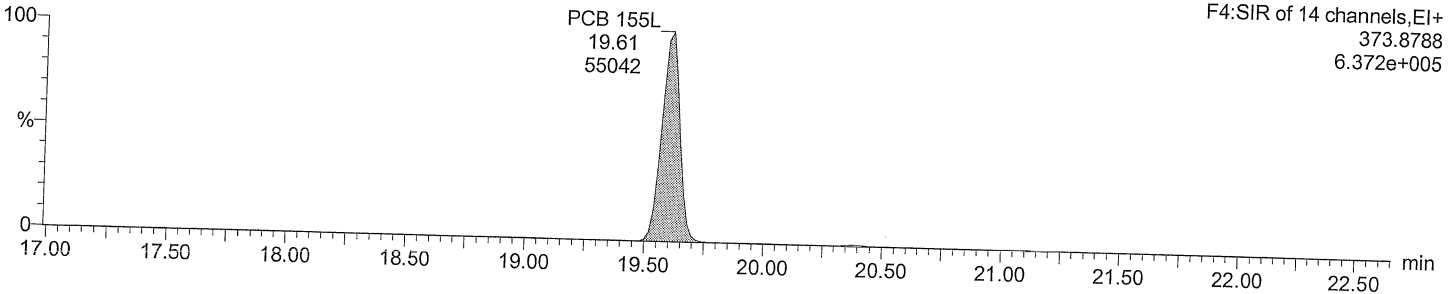
Total HxCB labeled F4

M2160218DS009 Smooth(SG,3x1)



Total HxCB labeled F4

M2160218DS009 Smooth(SG,3x1)



Acquired Date

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Last Altered: February 20, 2016 01:21:44 PM Eastern Standard Time

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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R

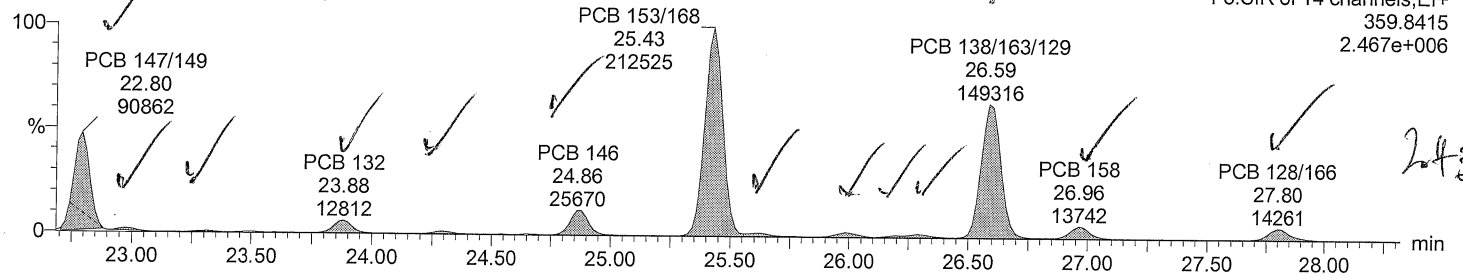
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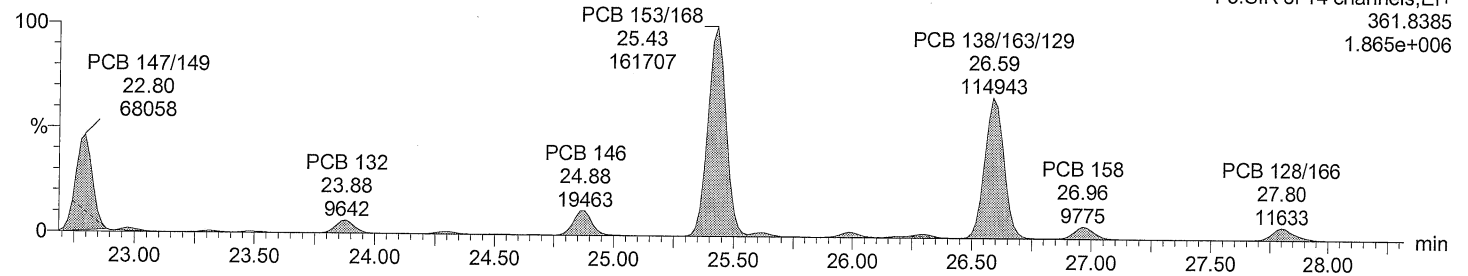
Total HxCB F5

M2160218DS009 Smooth(SG,1x1)



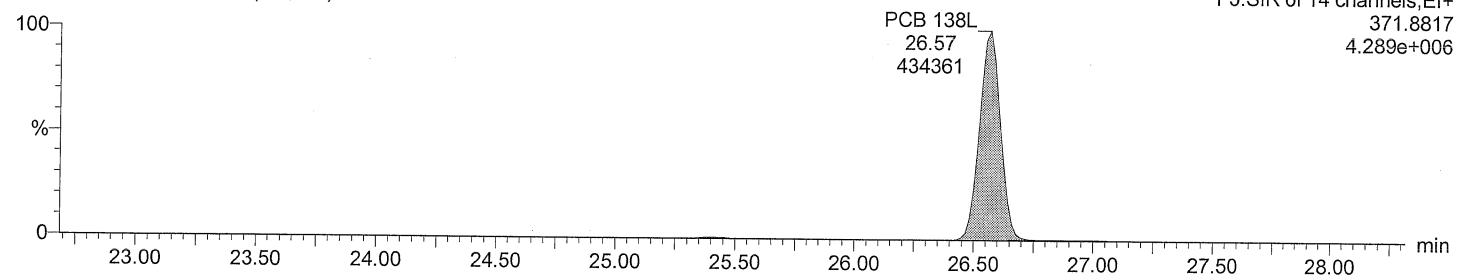
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M2160218DS009 Smooth(SG,1x1)



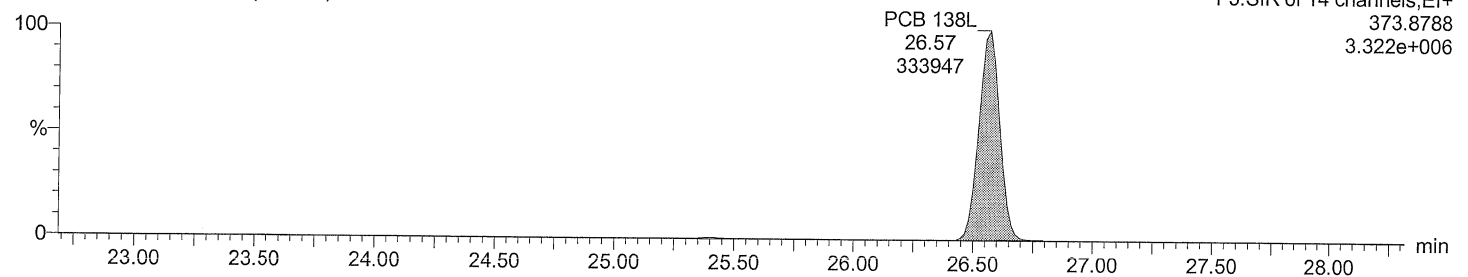
Total HxCB labeled F5

M2160218DS009 Smooth(SG,3x1)



Total HxCB labeled F5

M2160218DS009 Smooth(SG,3x1)



Acquired Date

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Last Altered: February 20, 2016 01:21:44 PM Eastern Standard Time

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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R

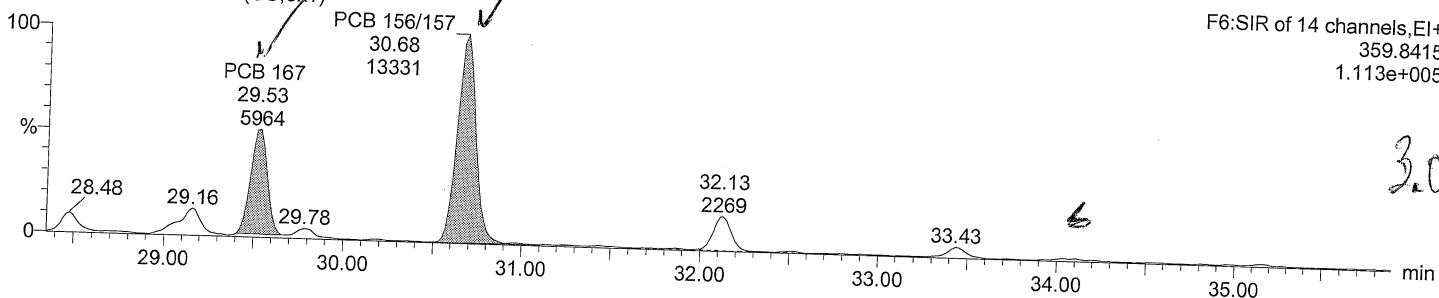
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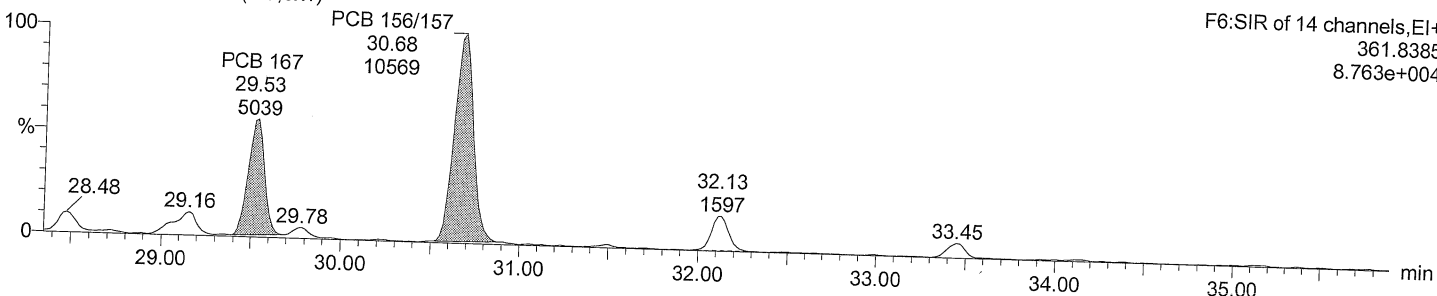
Total HxCB F6

M2160218DS009 Smooth(SG,3x1)



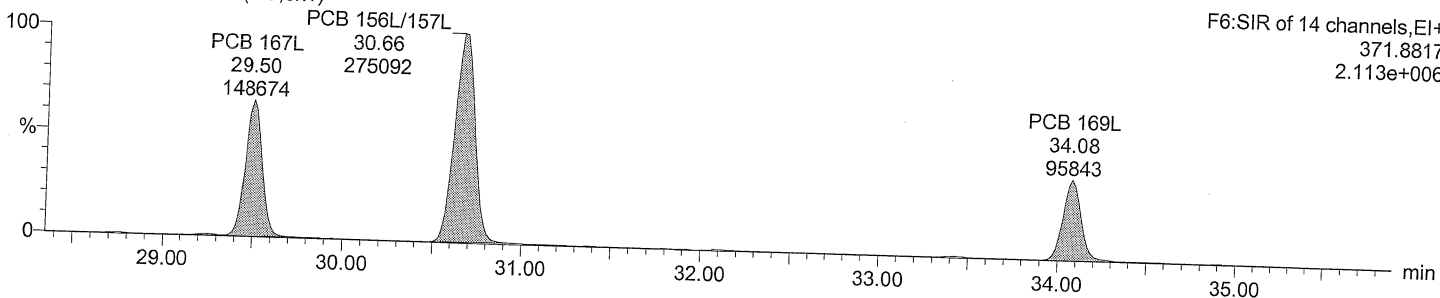
Total HxCB F6

M2160218DS009 Smooth(SG,3x1)



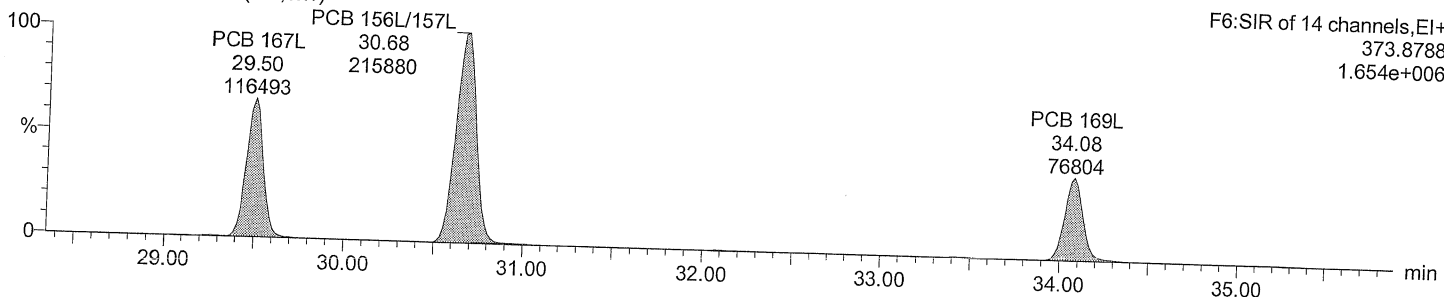
Total HxCB labeled F6

M2160218DS009 Smooth(SG,3x1)



Total HxCB labeled F6

M2160218DS009 Smooth(SG,3x1)



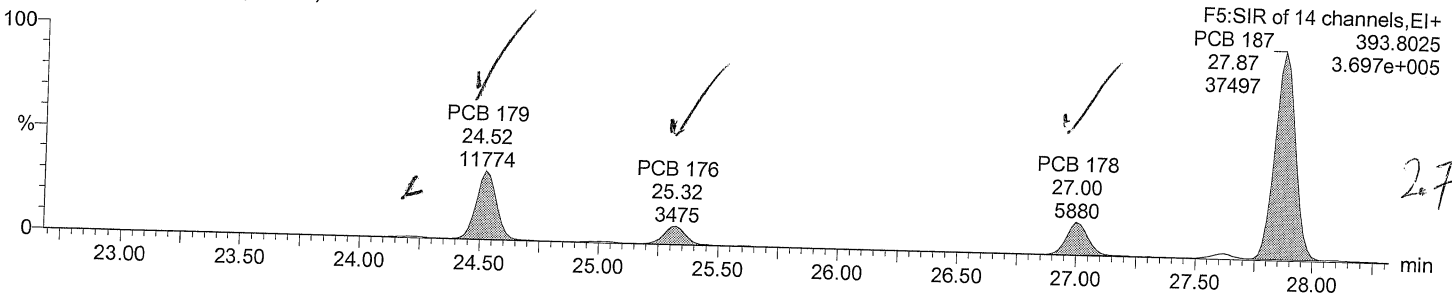
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Description: BRP510-01R
Vial: 9
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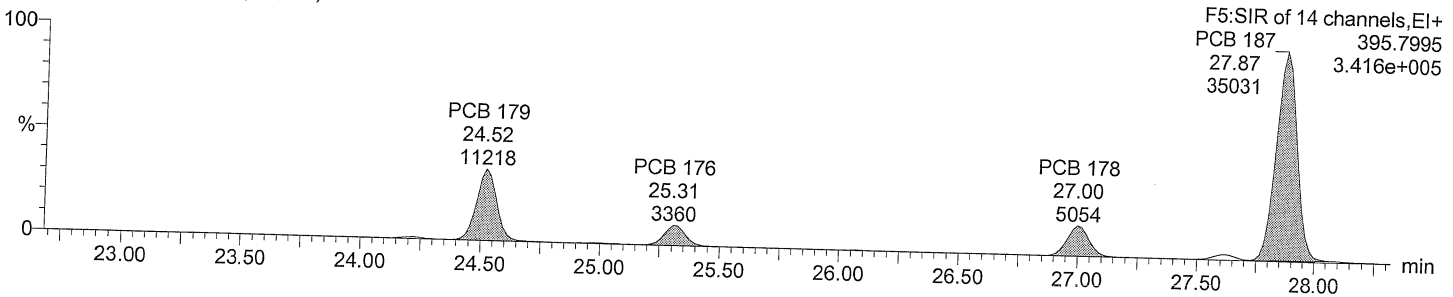
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M2160218DS009 Smooth(SG,3x1)



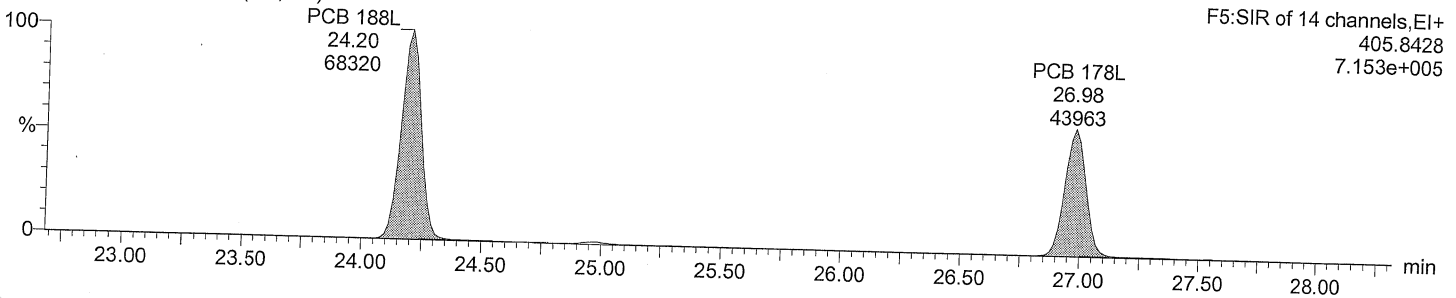
Total HpCB F5

M2160218DS009 Smooth(SG,3x1)



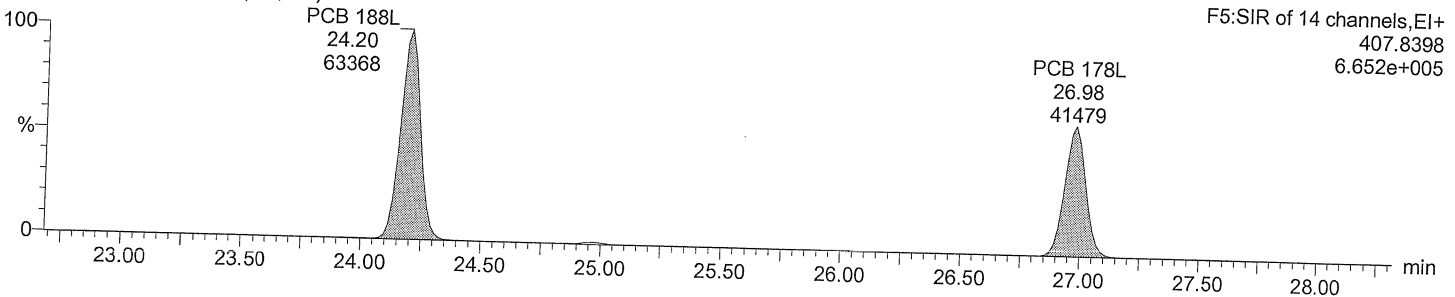
Total HpCB labeled F5

M2160218DS009 Smooth(SG,3x1)



Total HpCB labeled F5

M2160218DS009 Smooth(SG,3x1)



Acquired Date

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

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Description: BRP510-01R

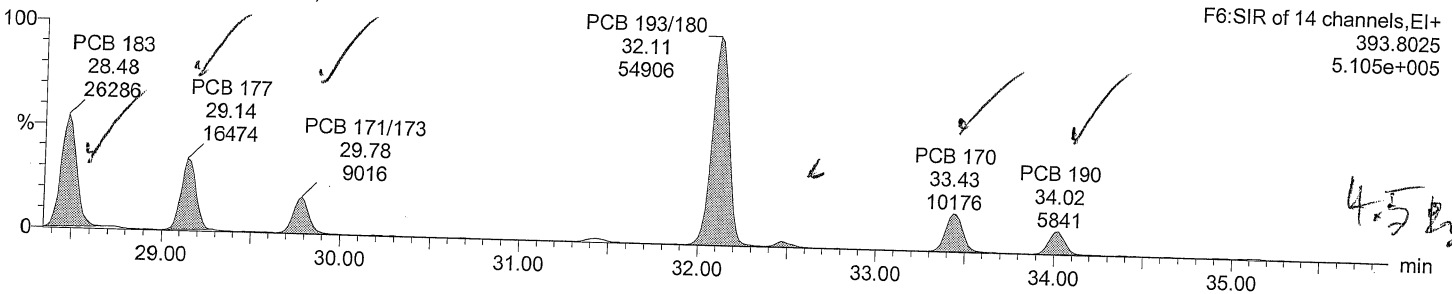
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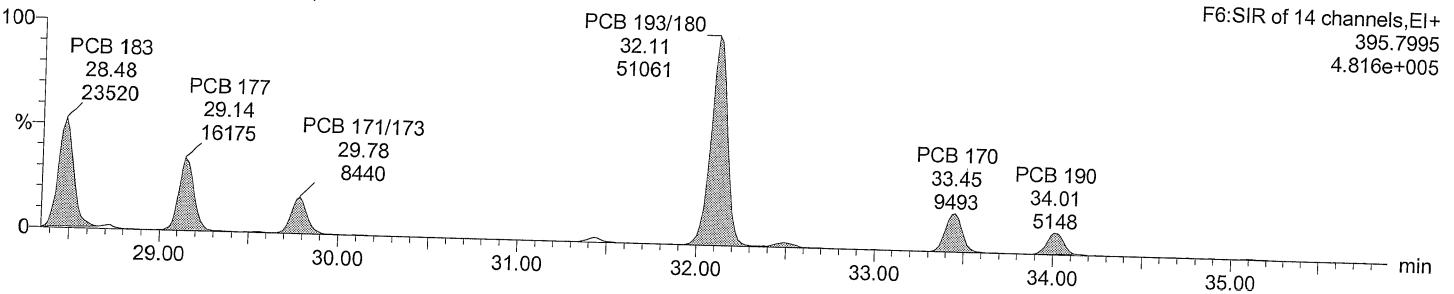
Total HpCB F6

M2160218DS009 Smooth(SG,1x1)



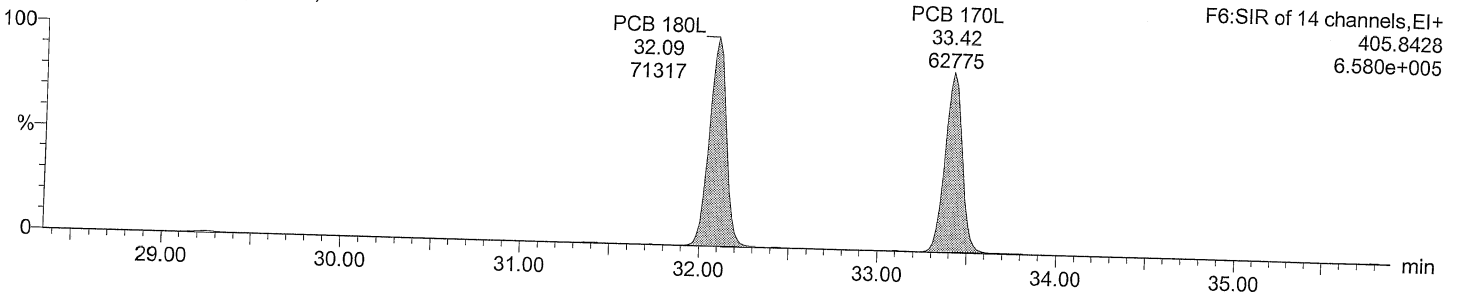
Total HpCB F6

M2160218DS009 Smooth(SG,1x1)



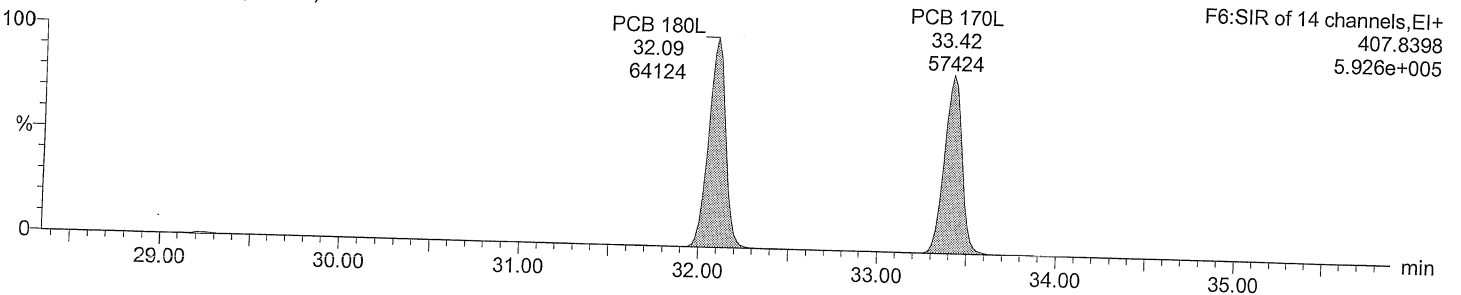
Total HpCB labeled F6

M2160218DS009 Smooth(SG,3x1)



Total HpCB labeled F6

M2160218DS009 Smooth(SG,3x1)



Acquired Date

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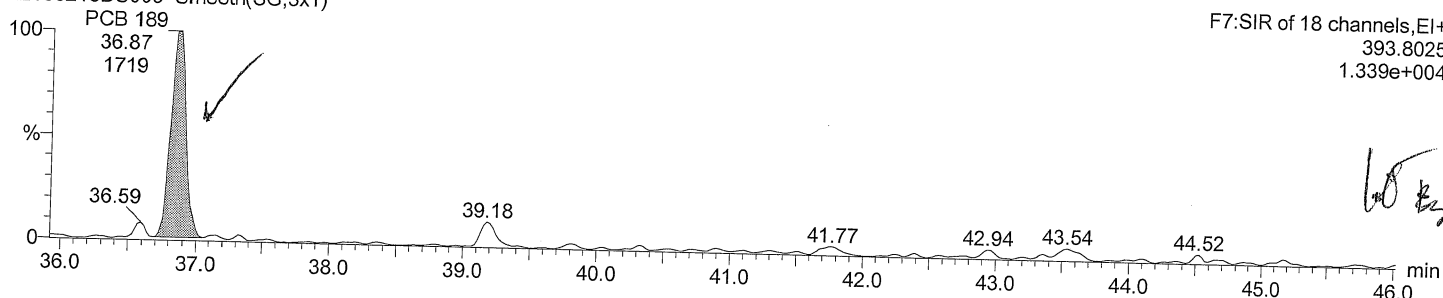
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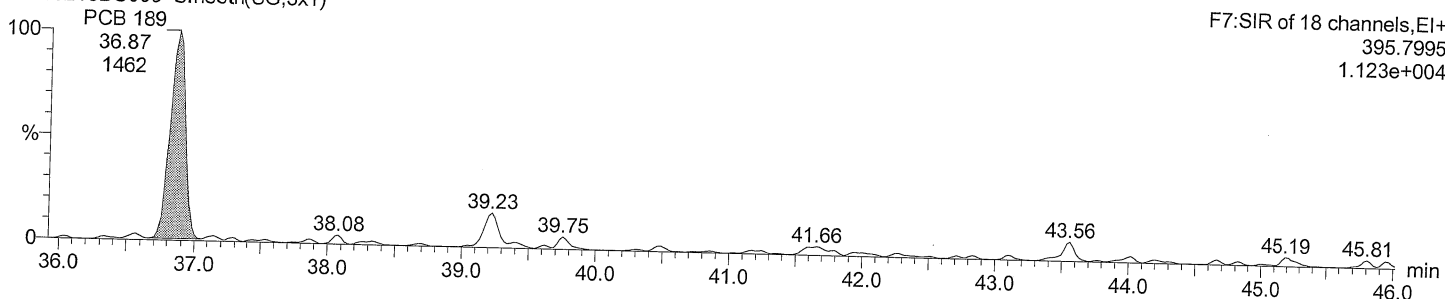
Total HpCB F7

M2160218DS009 Smooth(SG,3x1)



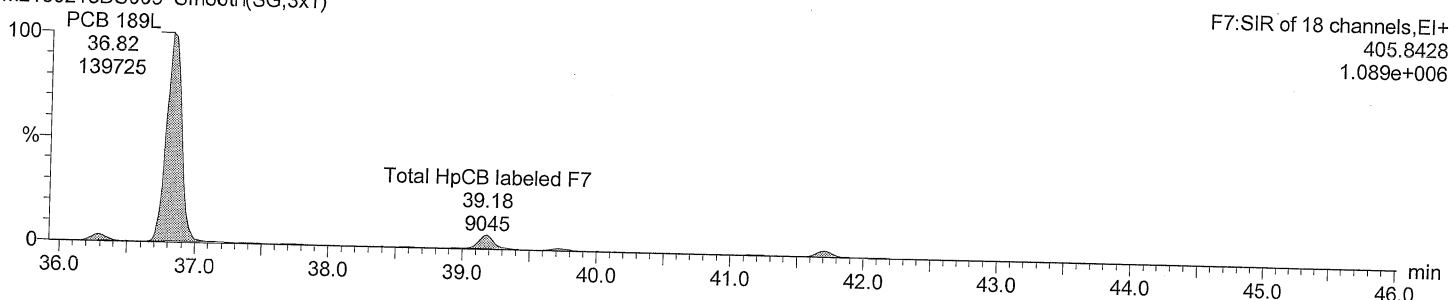
Total HpCB F7

M2160218DS009 Smooth(SG,3x1)



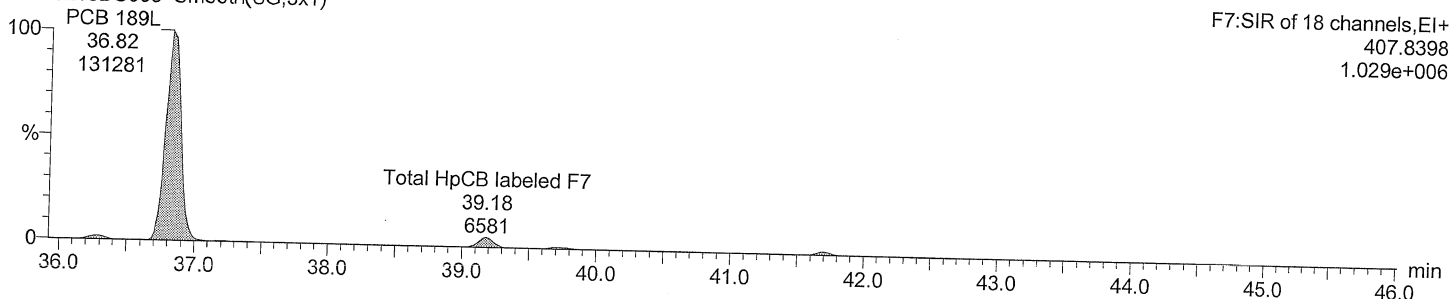
Total HpCB labeled F7

M2160218DS009 Smooth(SG,3x1)



Total HpCB labeled F7

M2160218DS009 Smooth(SG,3x1)



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Description: BRP510-01R

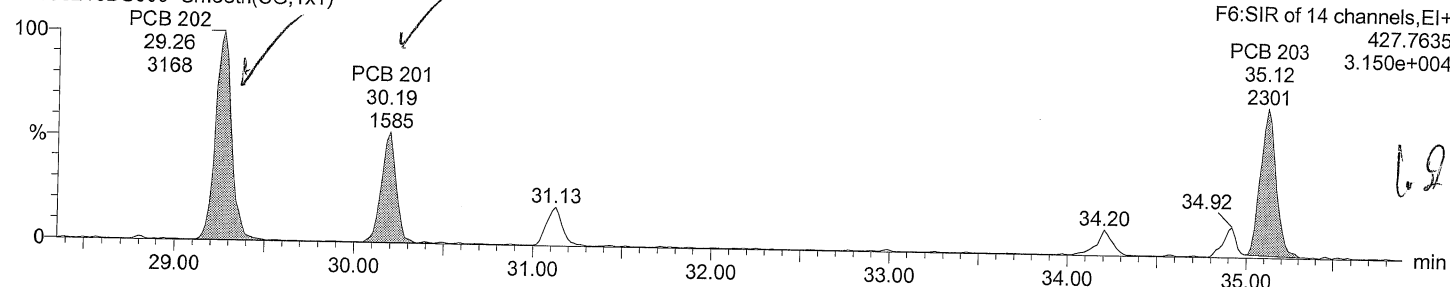
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Date: 18-FEB-2016

Time: 01:09:02

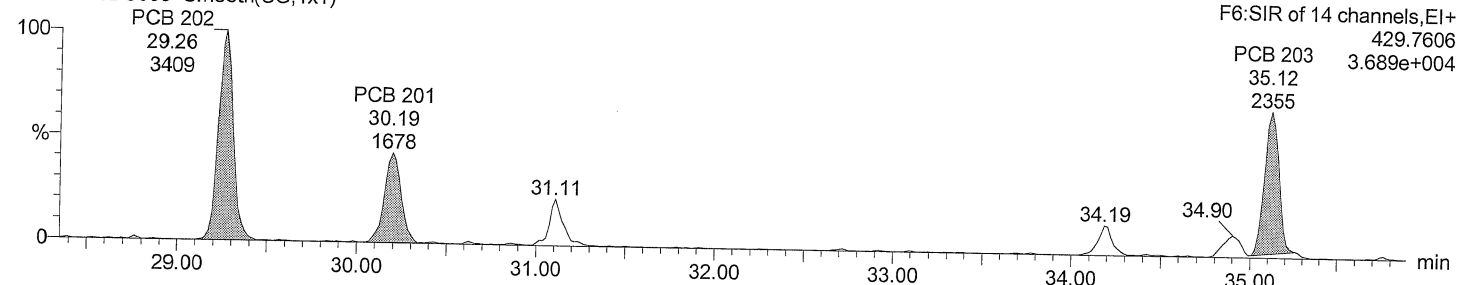
Total OcCB F6

M2160218DS009 Smooth(SG,1x1)



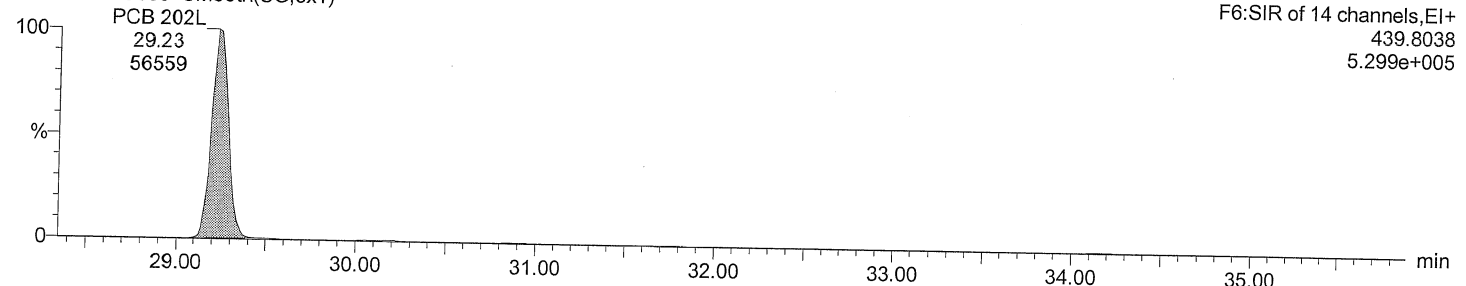
Total OcCB F6

M2160218DS009 Smooth(SG,1x1)



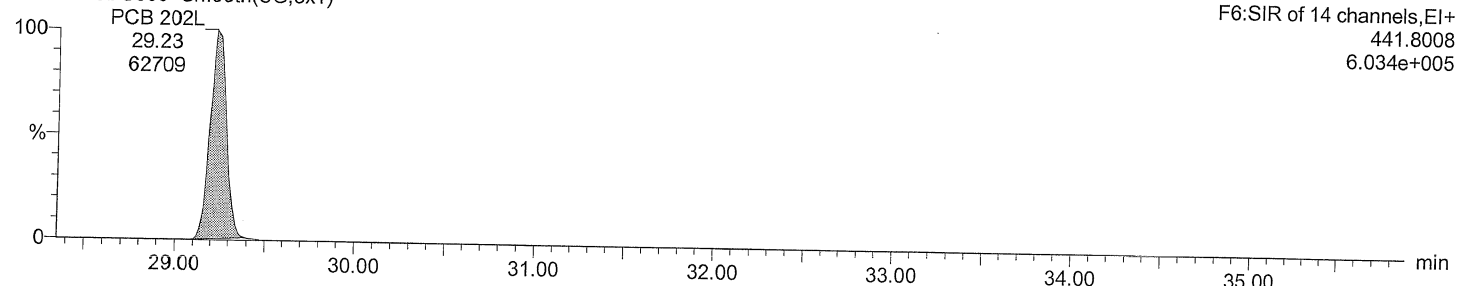
Total OcCB labeled F6

M2160218DS009 Smooth(SG,3x1)



Total OcCB labeled F6

M2160218DS009 Smooth(SG,3x1)



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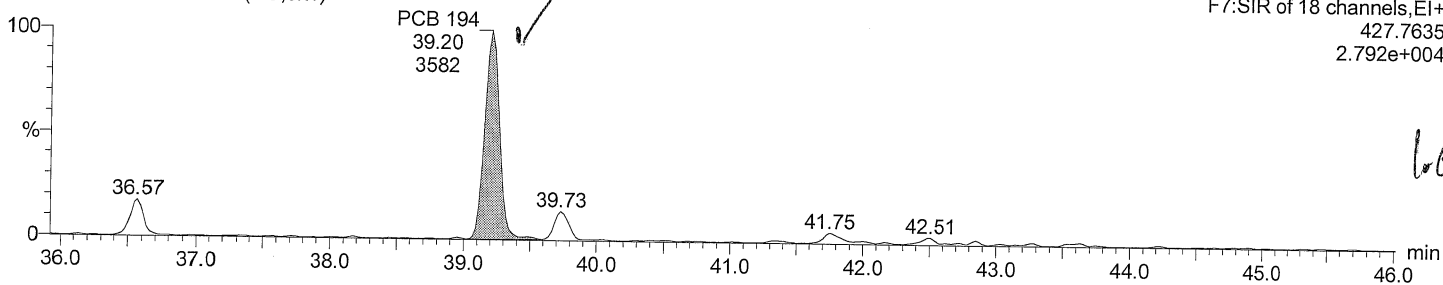
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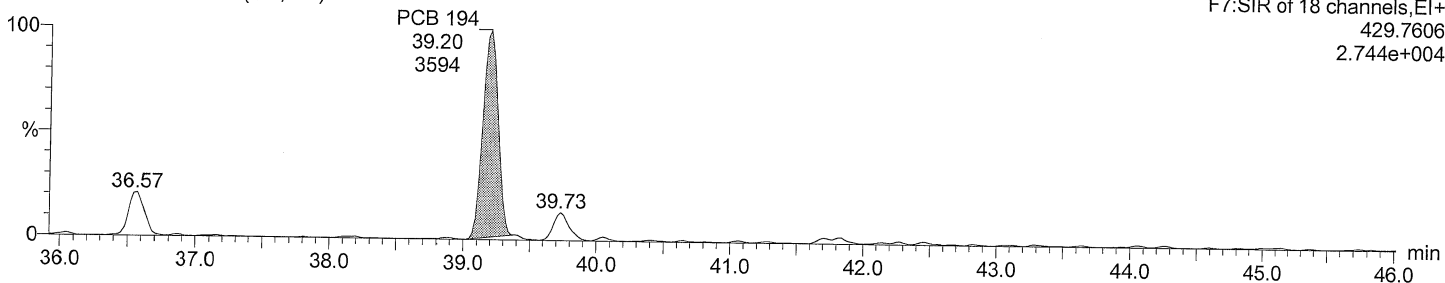
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M2160218DS009 Smooth(SG,3x1)



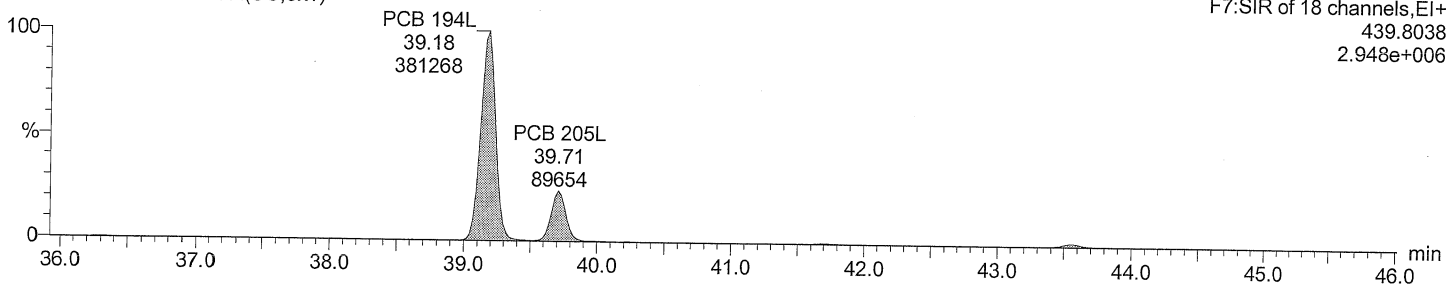
Total OcCB F7

M2160218DS009 Smooth(SG,3x1)



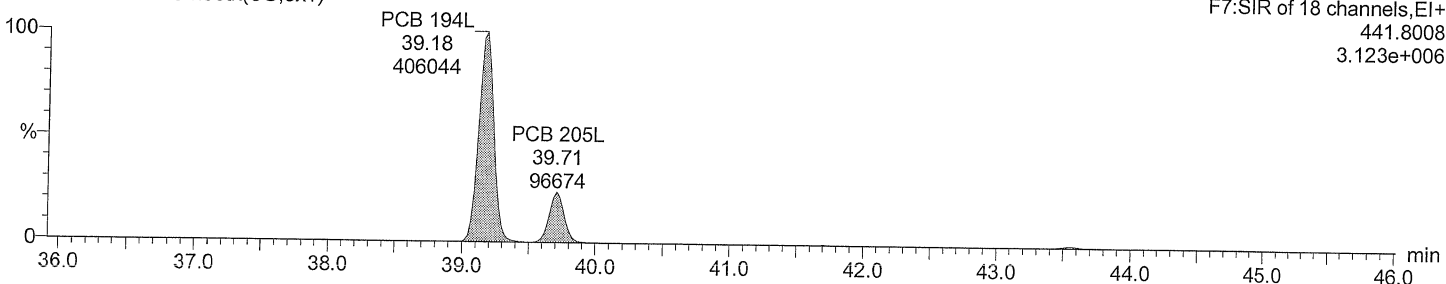
Total OcCB labeled F7

M2160218DS009 Smooth(SG,3x1)



Total OcCB labeled F7

M2160218DS009 Smooth(SG,3x1)



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Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 01:21:44 PM Eastern Standard Time

Printed: February 20, 2016 01:24:13 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R

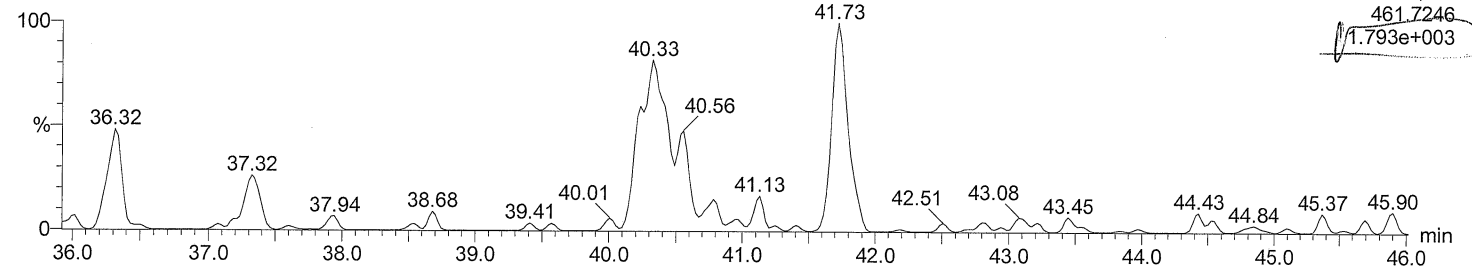
Vial: 9

Date: 18-FEB-2016

Time: 01:09:02

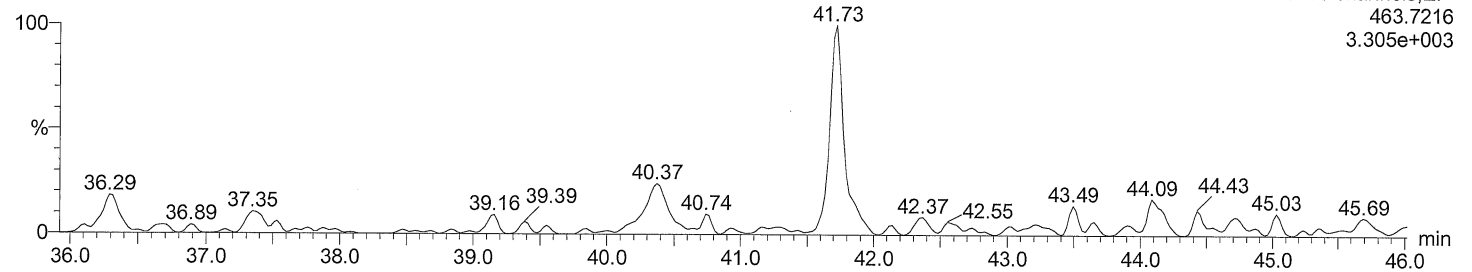
Total NoCB F7

M2160218DS009 Smooth(SG,3x1)



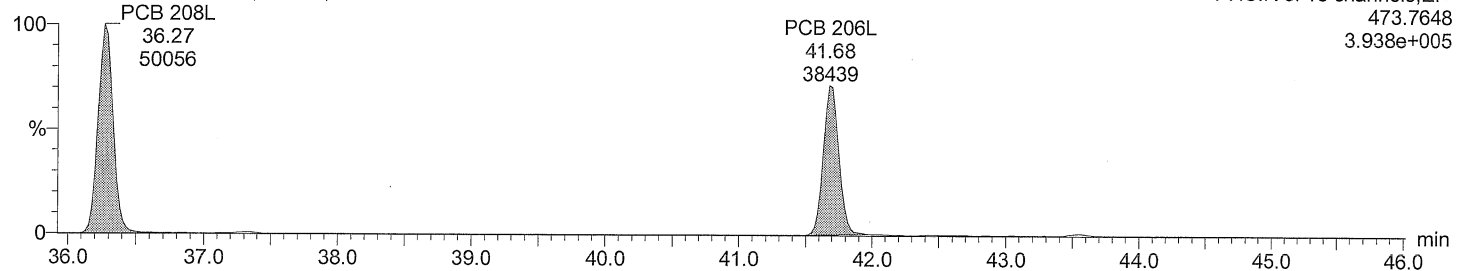
Total NoCB F7

M2160218DS009 Smooth(SG,3x1)



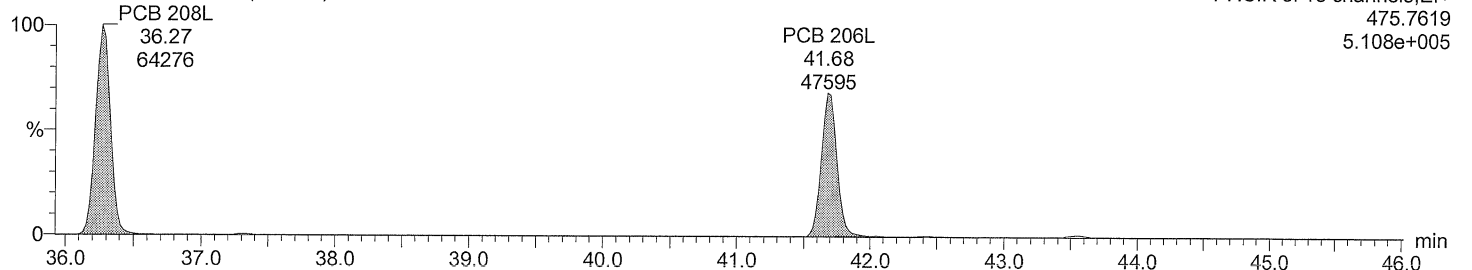
Total NoCB labeled F7

M2160218DS009 Smooth(SG,3x1)



Total NoCB labeled F7

M2160218DS009 Smooth(SG,3x1)



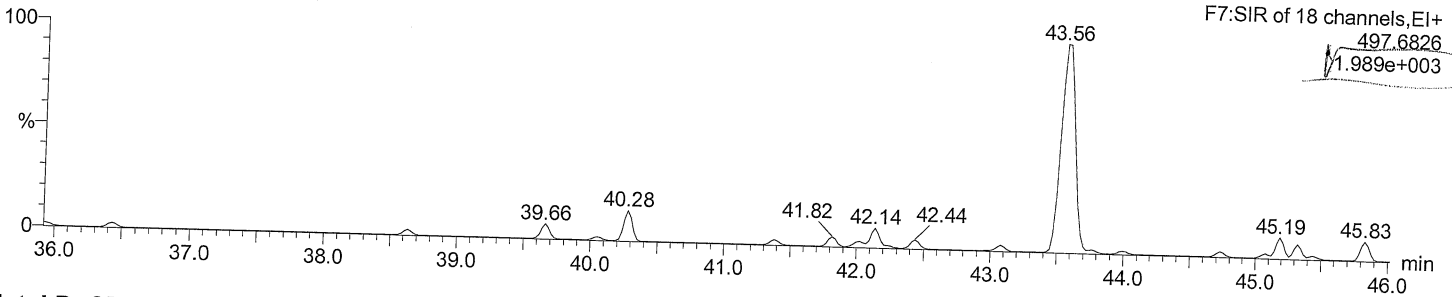
Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 01:21:44 PM Eastern Standard Time
Printed: February 20, 2016 01:24:13 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
Description: BRP510-01R
Vial: 9
Date: 18-FEB-2016
Time: 01:09:02

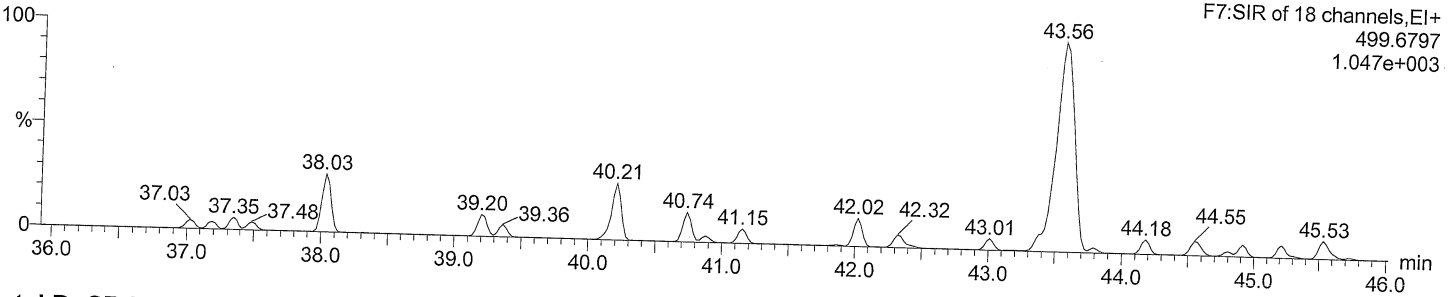
Total DeCB F7

M2160218DS009 Smooth(SG,3x1)



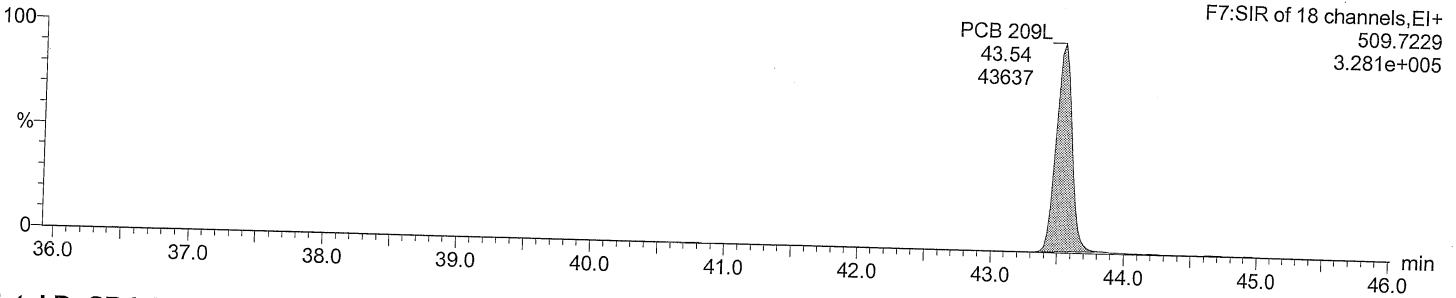
Total DeCB F7

M2160218DS009 Smooth(SG,3x1)



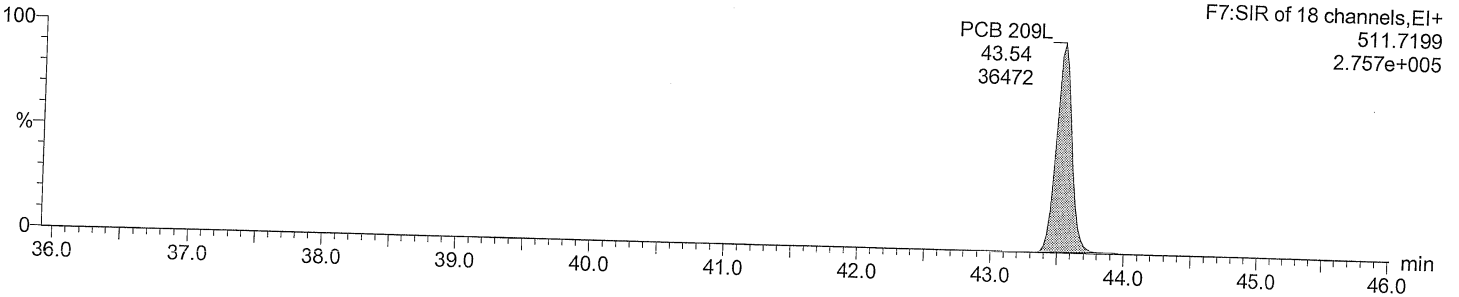
Total DeCB labeled F7

M2160218DS009 Smooth(SG,3x1)



Total DeCB labeled F7

M2160218DS009 Smooth(SG,3x1)



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 01:21:44 PM Eastern Standard Time

Printed: February 20, 2016 01:24:13 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R

Vial: 9

Date: 18-FEB-2016

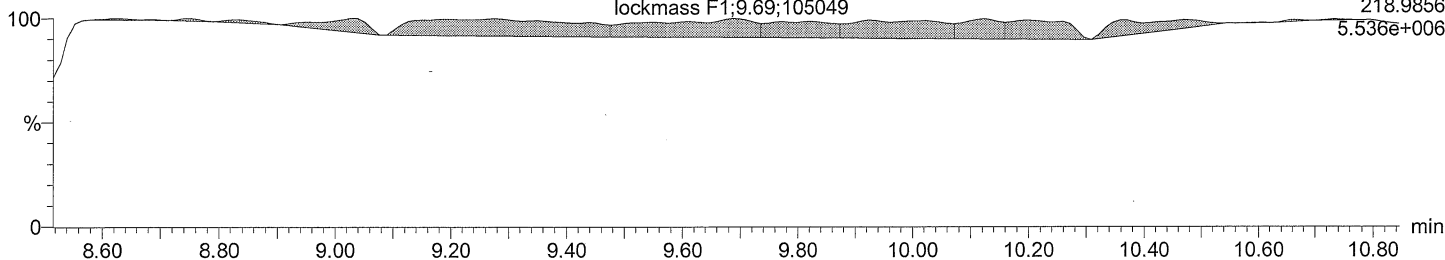
Time: 01:09:02

lockmass F1

M2160218DS009 Smooth(SG,3x1)

lockmass F1;9.69;105049

F1:SIR of 10 channels,EI+
218.9856
5.536e+006



lockmass F2

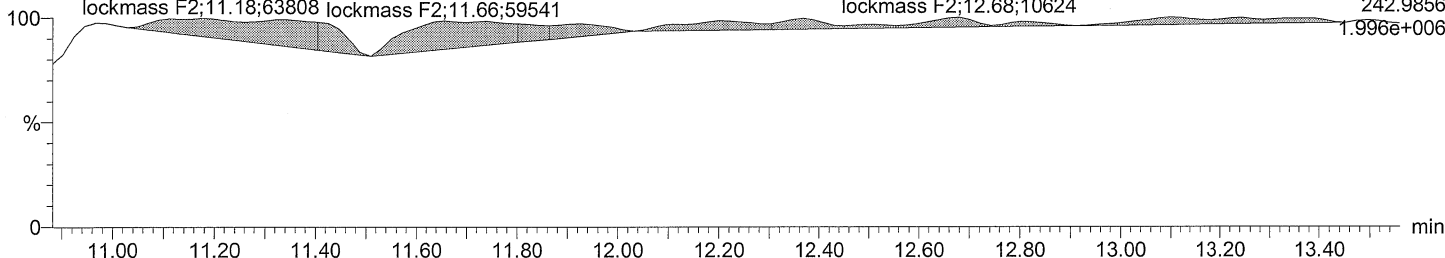
M2160218DS009 Smooth(SG,3x1)

lockmass F2;11.18;63808

lockmass F2;11.66;59541

lockmass F2;12.68;10624

F2:SIR of 16 channels,EI+
242.9856
1.996e+006



lockmass F3

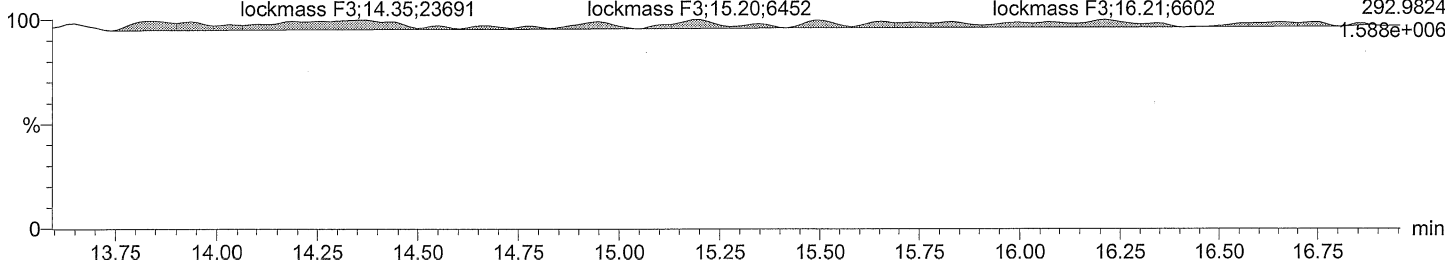
M2160218DS009 Smooth(SG,3x1)

lockmass F3;14.35;23691

lockmass F3;15.20;6452

lockmass F3;16.21;6602

F3:SIR of 14 channels,EI+
292.9824
1.588e+006



lockmass F4

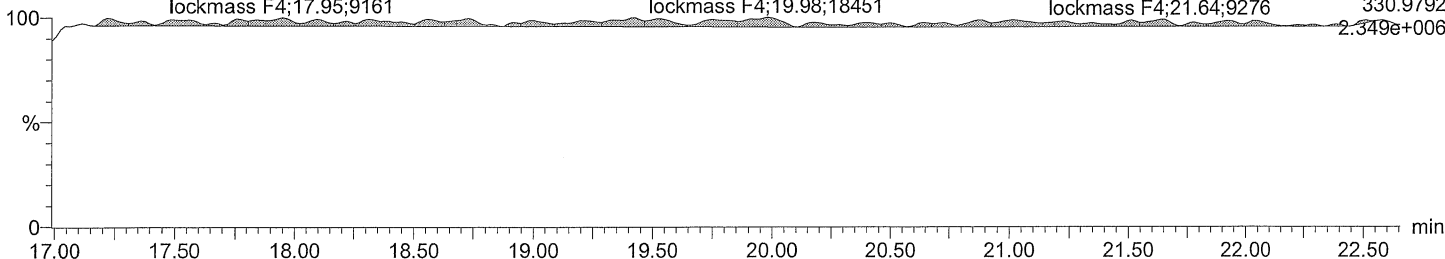
M2160218DS009 Smooth(SG,3x1)

lockmass F4;17.95;9161

lockmass F4;19.98;18451

lockmass F4;21.64;9276

F4:SIR of 14 channels,EI+
330.9792
2.349e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 01:21:44 PM Eastern Standard Time

Printed: February 20, 2016 01:24:13 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

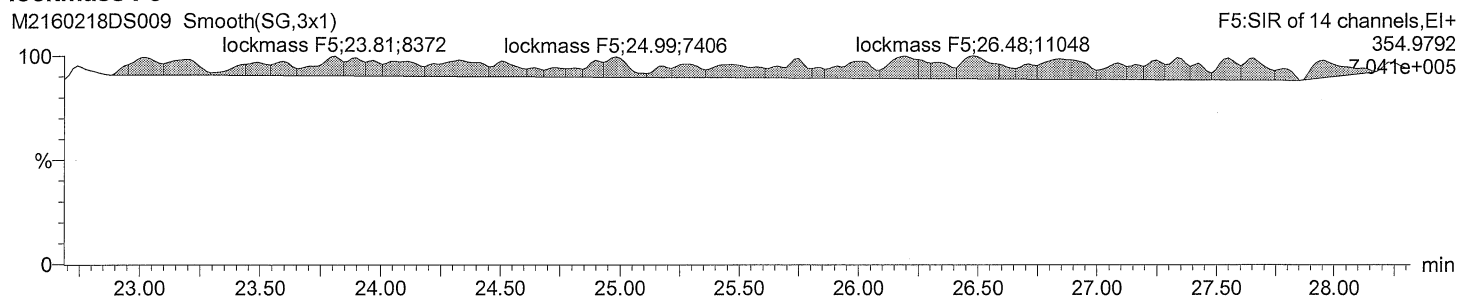
Description: BRP510-01R

Vial: 9

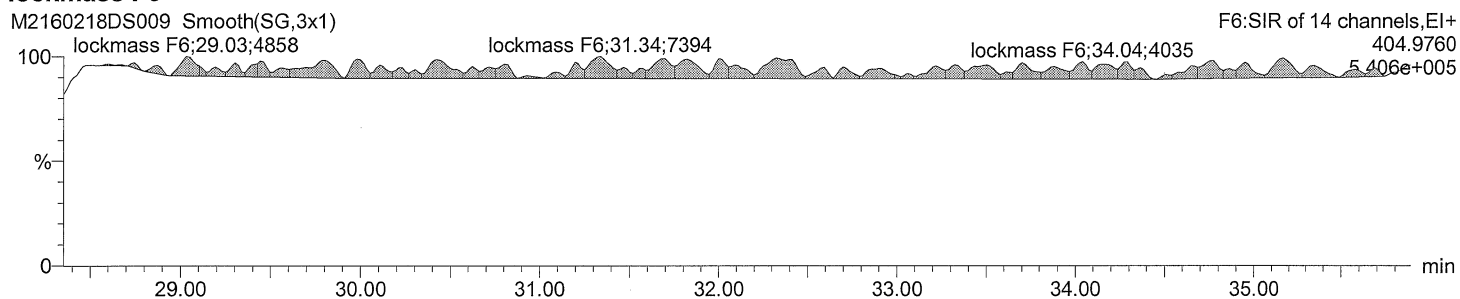
Date: 18-FEB-2016

Time: 01:09:02

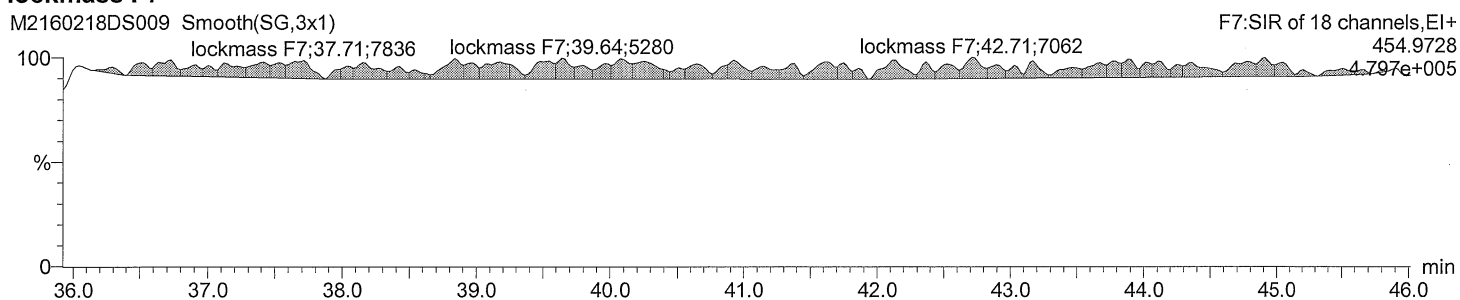
lockmass F5



lockmass F6

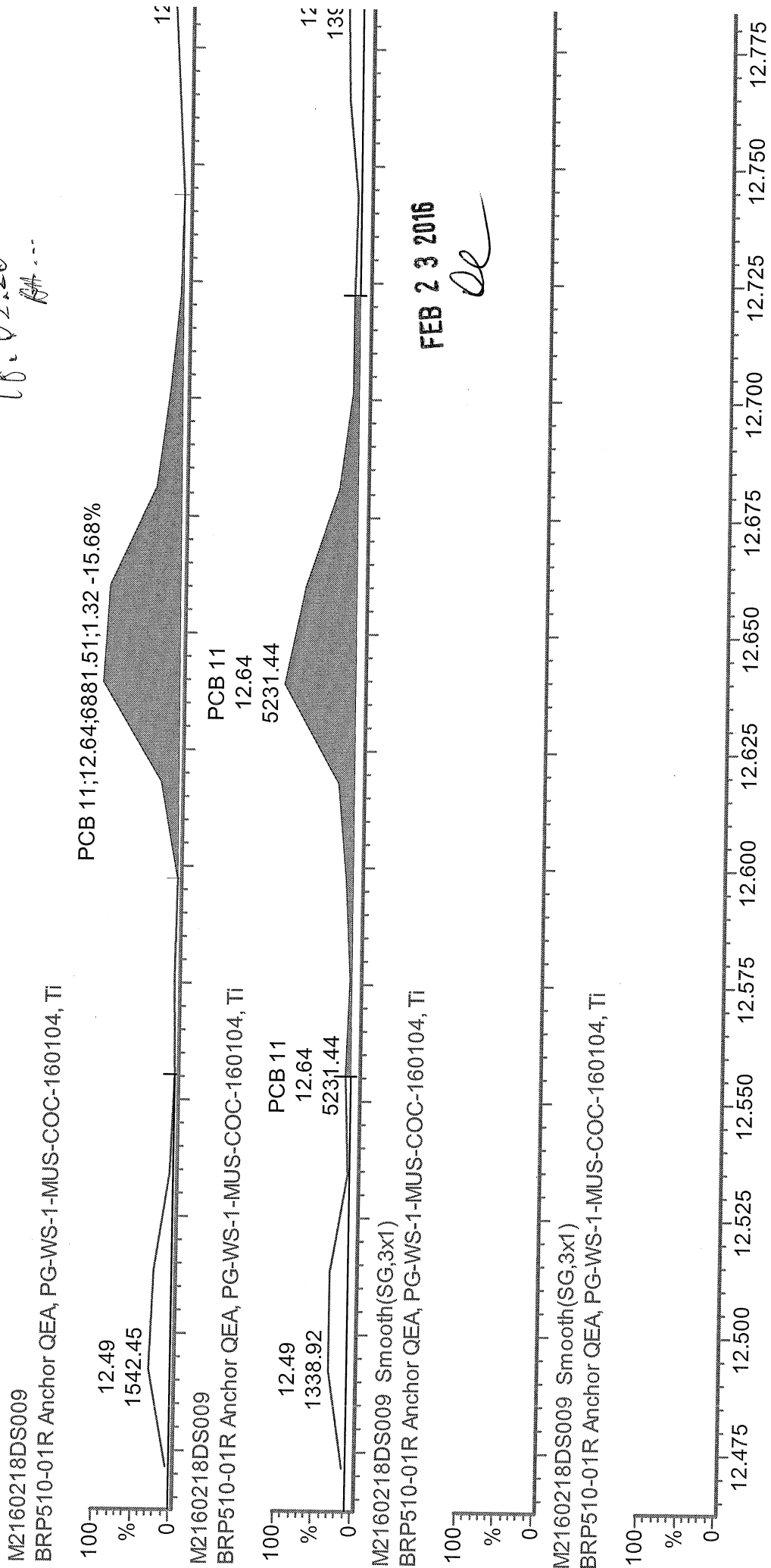


lockmass F7



Before

18.02.20
RHH

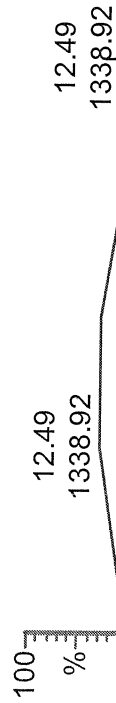


M3 16/02/20 : AH

M2160218DS009
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS009
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



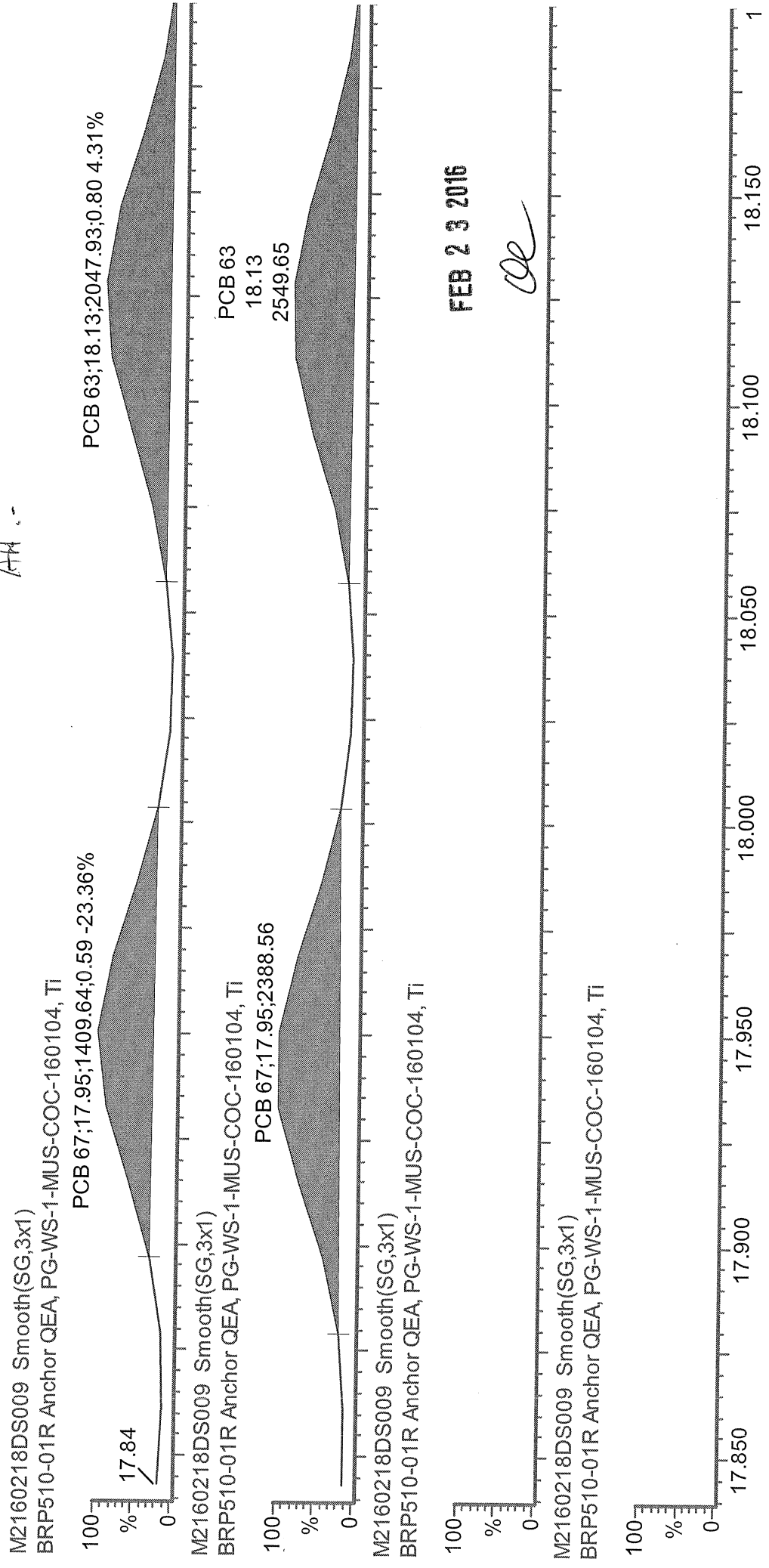
M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



FEB 23 2016

12.475 12.500 12.525 12.550 12.575 12.600 12.625 12.650 12.675 12.700 12.725 12.750 12.775

Before
6.02.20
AH.-

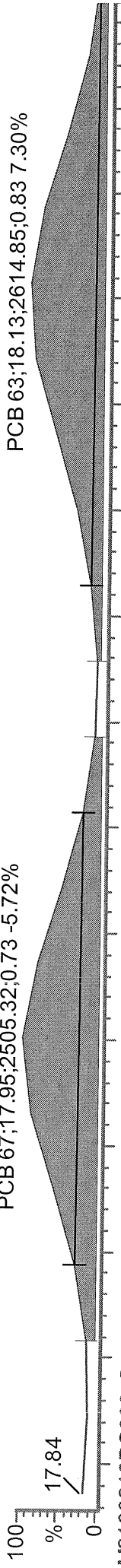


M3 16/02/20 : AH

M2160218DS009 Smooth(SG,3x1)

BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

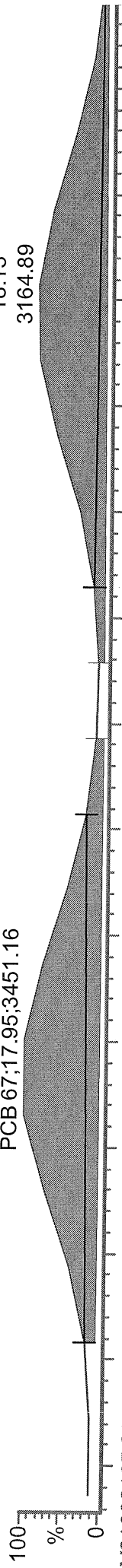
PCB 67;17.95;2505.32;0.73 -5.72%



M2160218DS009 Smooth(SG,3x1)

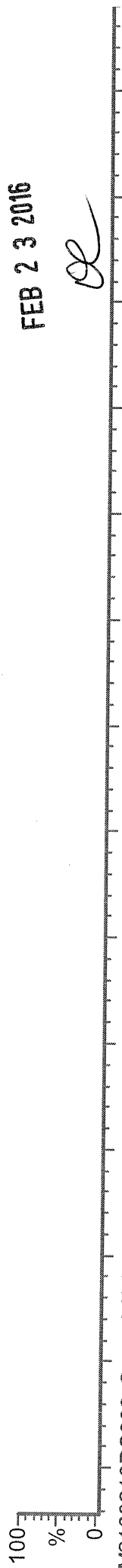
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 67;17.95;3451.16



M2160218DS009 Smooth(SG,3x1)

BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

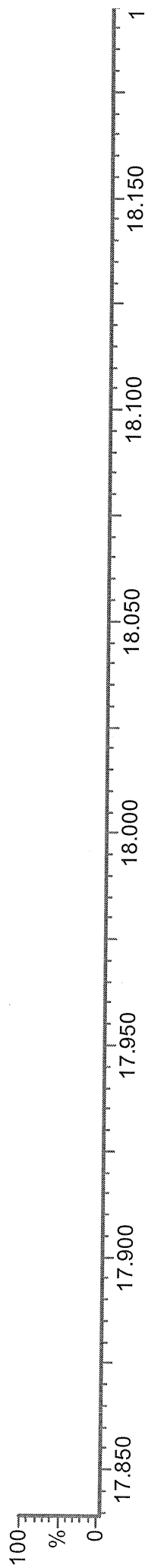


PCB 63
18.13
3164.89

FEB 23 2016

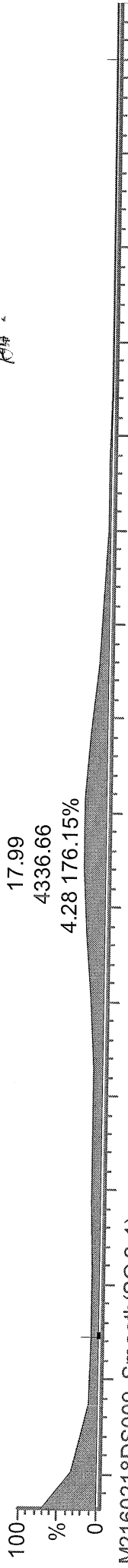
M2160218DS009 Smooth(SG,3x1)

BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



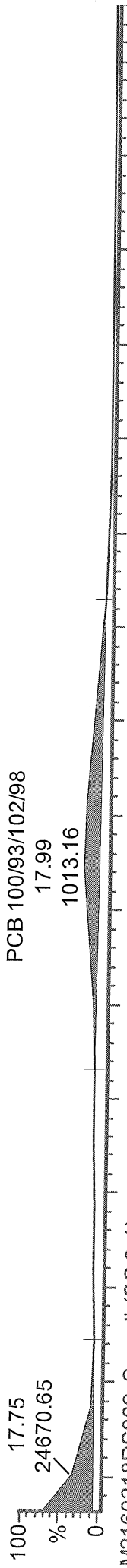
Before
18.02.20
A.H.

M2160218DS009 Smooth(SG,2x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti PCB 100/93/102/98

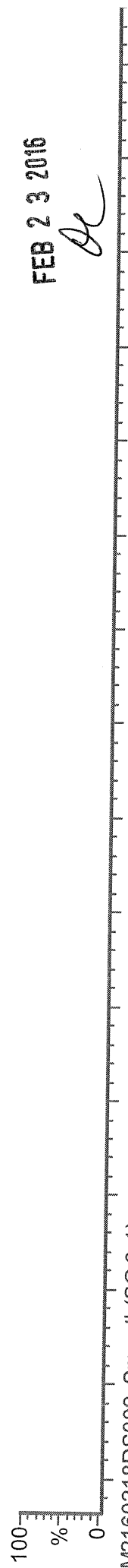


M2160218DS009 Smooth(SG,2x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti PCB 99

PCB 100/93/102/98
17.99
1013.16

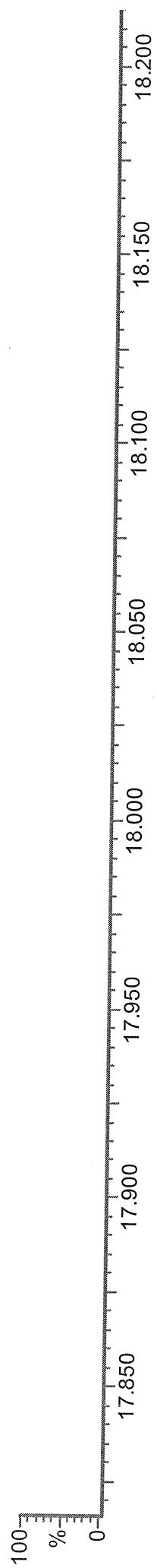


M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



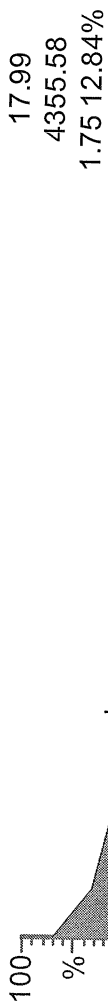
FEB 23 2016
A.H.

M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M3 16/02/20 : AH

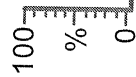
M2160218DS009 Smooth(SG,2x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti PCB 100/93/102/98



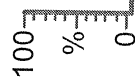
M2160218DS009 Smooth(SG,2x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti PCB 99



M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



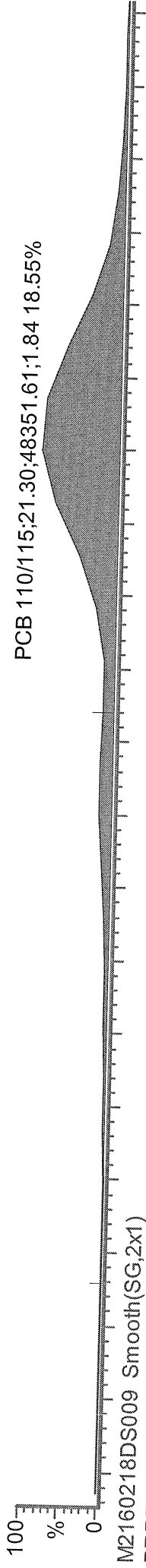
M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



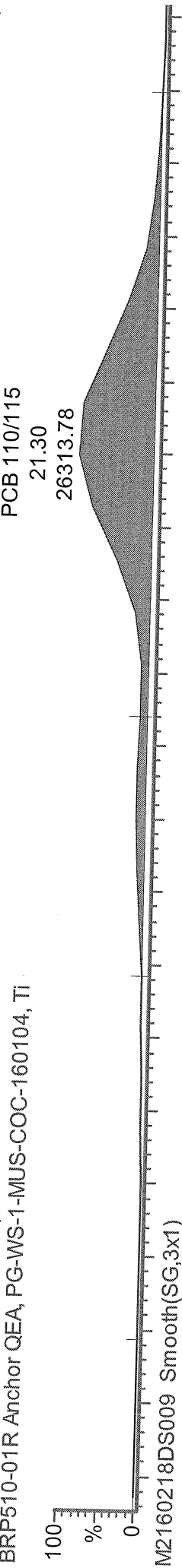
FEB 23 2016

Before
6.03.20
AA

M2160218DS009 Smooth(SG,2x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI



M2160218DS009 Smooth(SG,2x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI

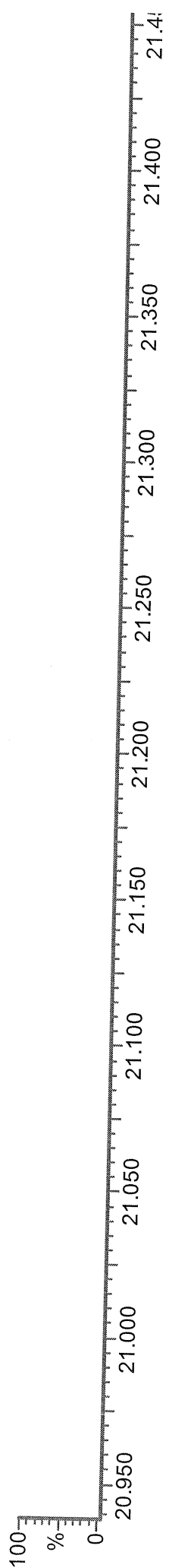


M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI



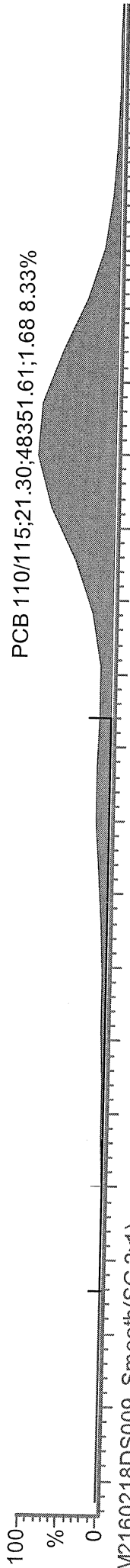
FEB 23 2016
de

M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI

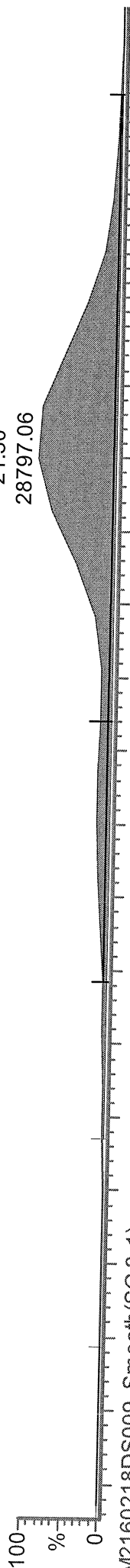


M3 16/02/20 : AH

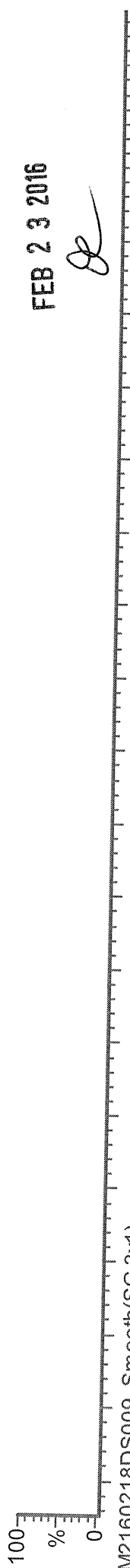
M2160218DS009 Smooth(SG,2x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS009 Smooth(SG,2x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

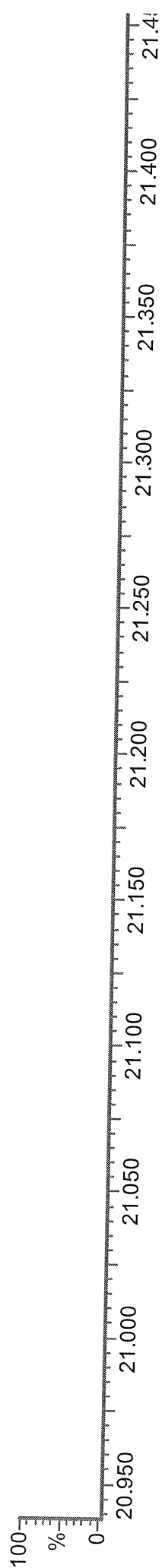


M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

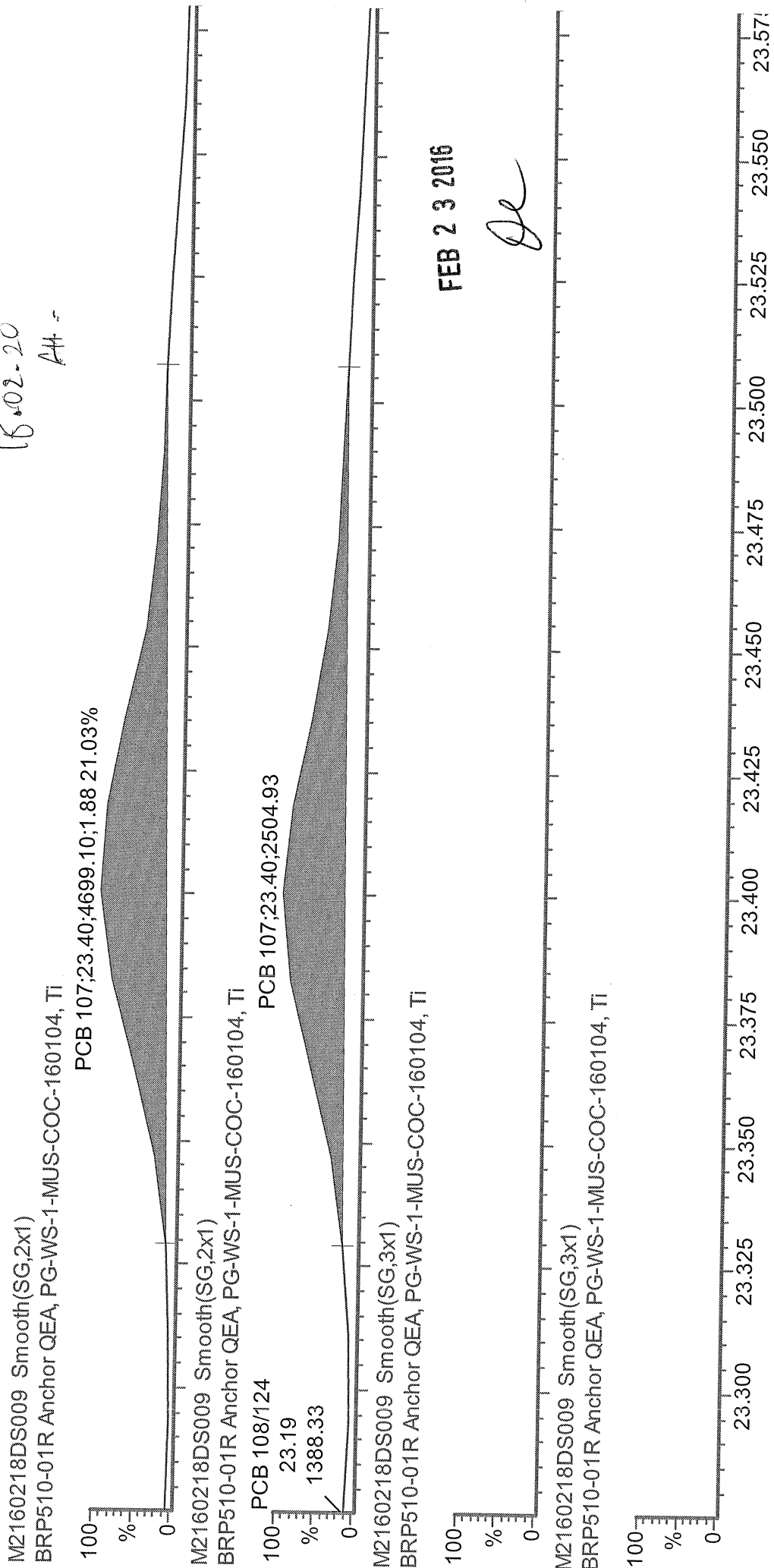


FEB 23 2016

M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

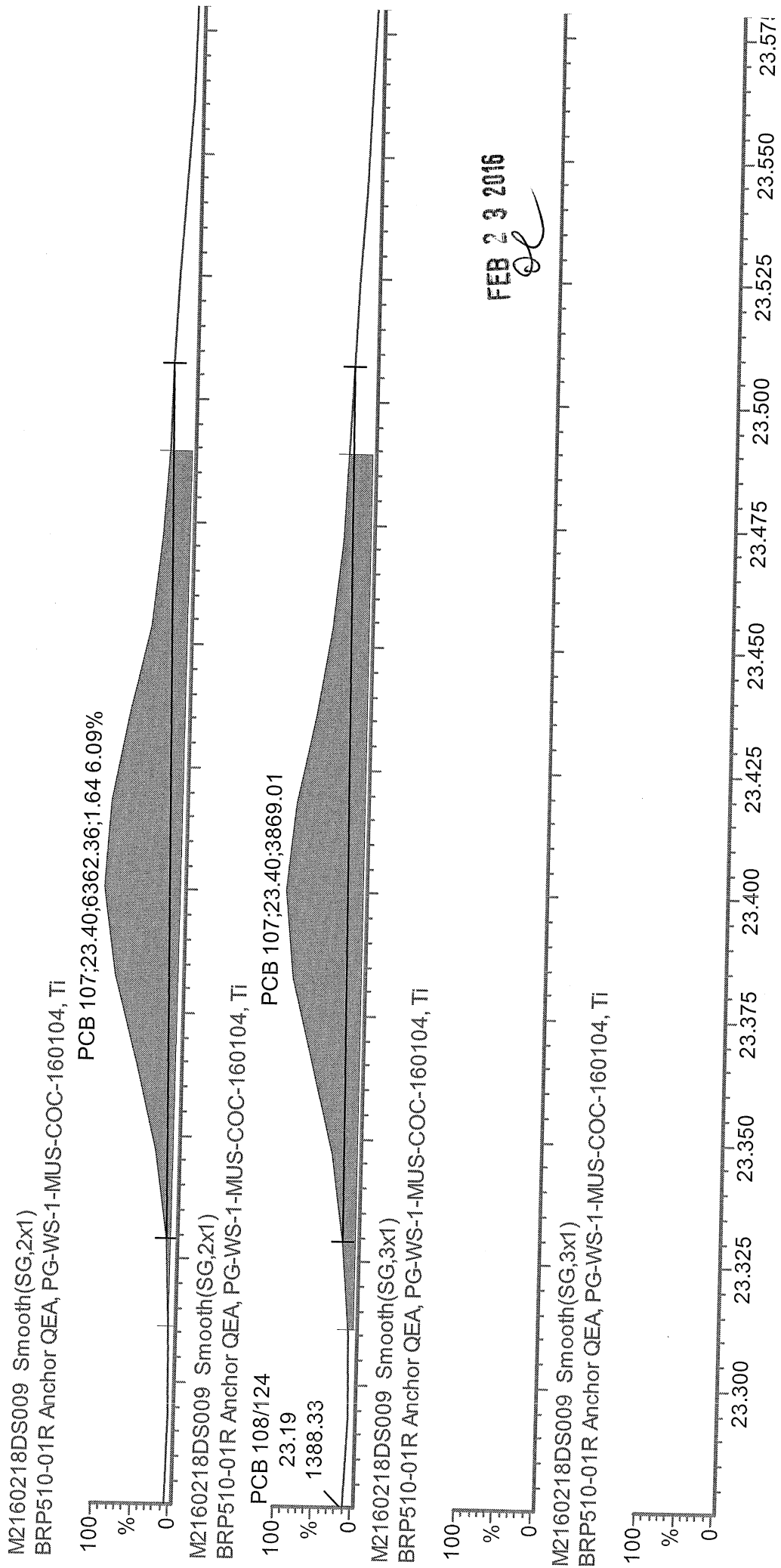


Before
18-02-20
AH-



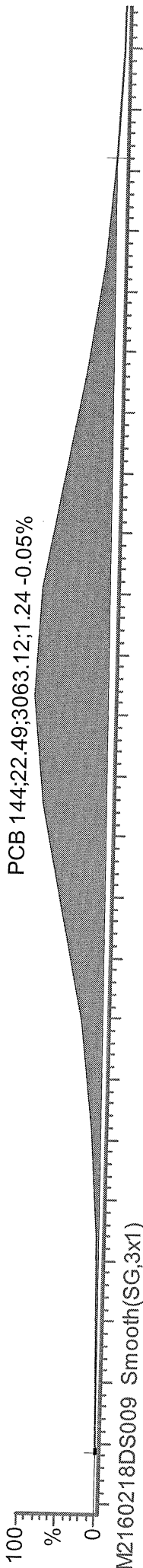
De

M3 16/02/20 : AH

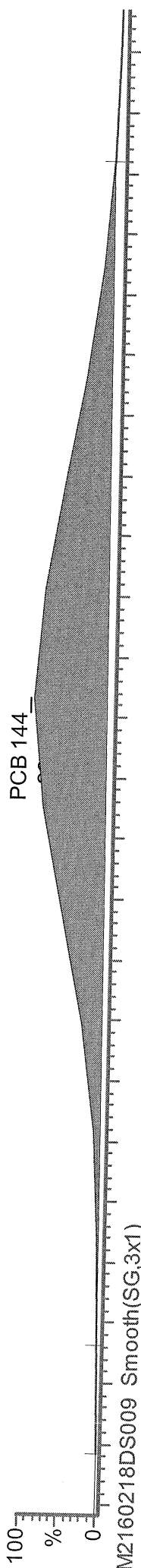


Before
15.02.20
AM

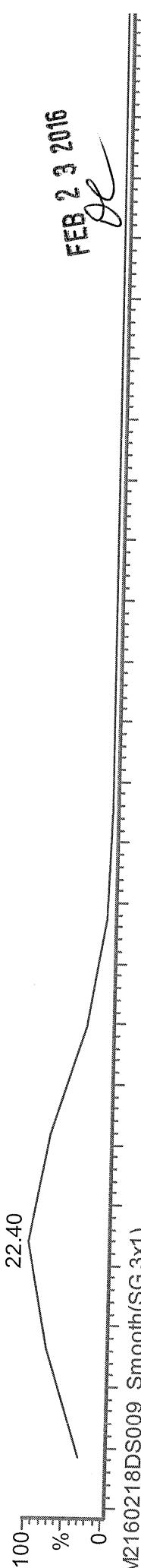
M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



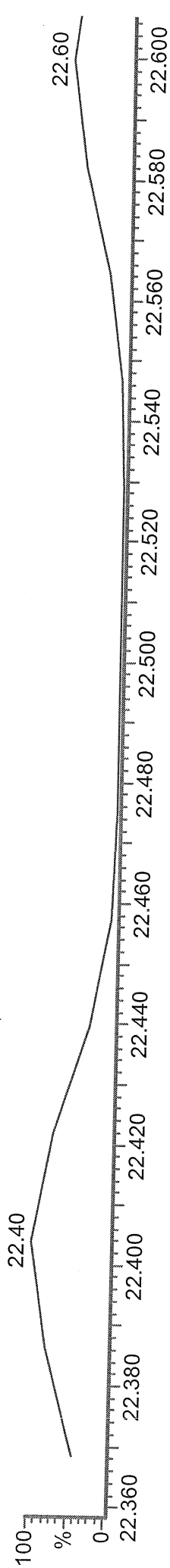
M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

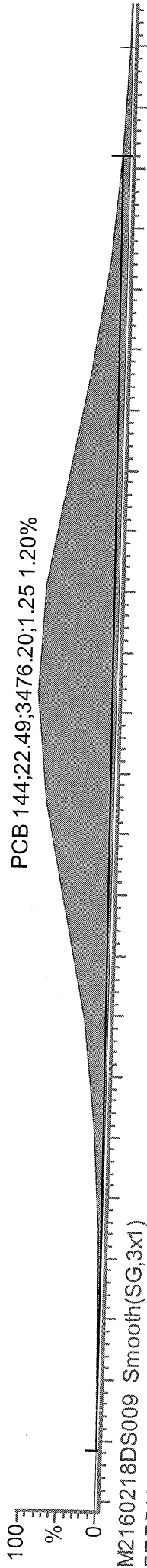


M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

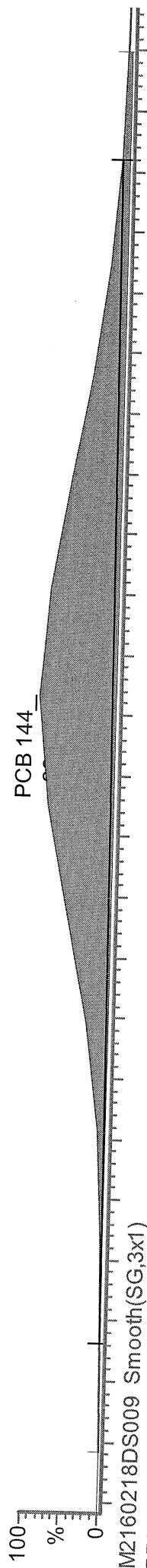


M3 16/02/20 : AH

M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI

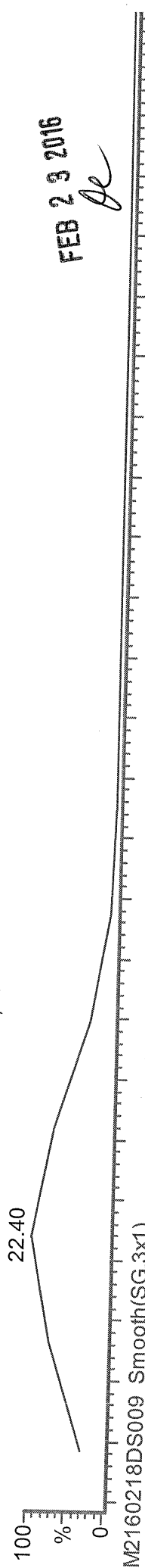


M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI

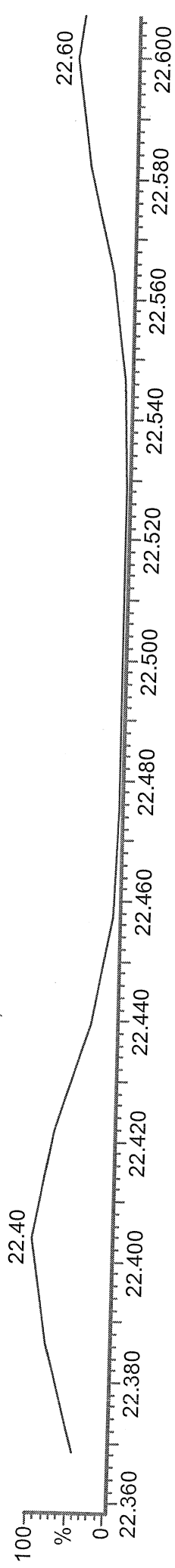


FEB 23 2016
de

M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI

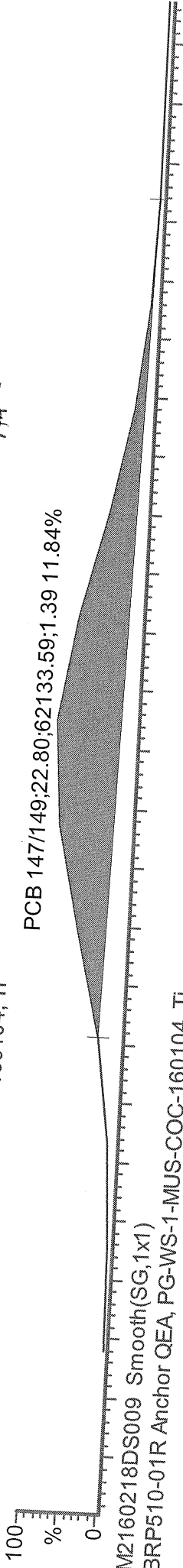


M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI

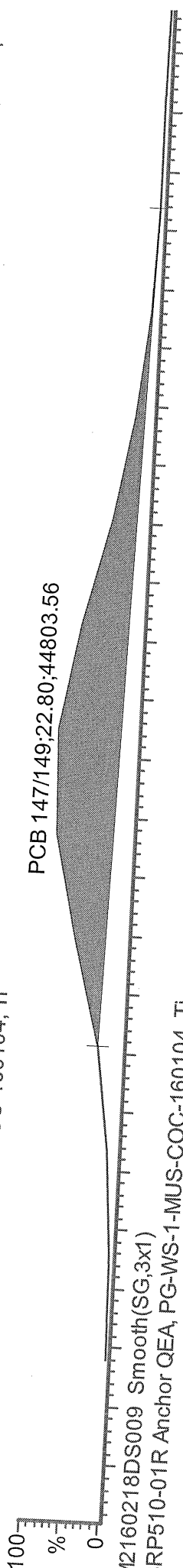


Before
6.02.20
A# -

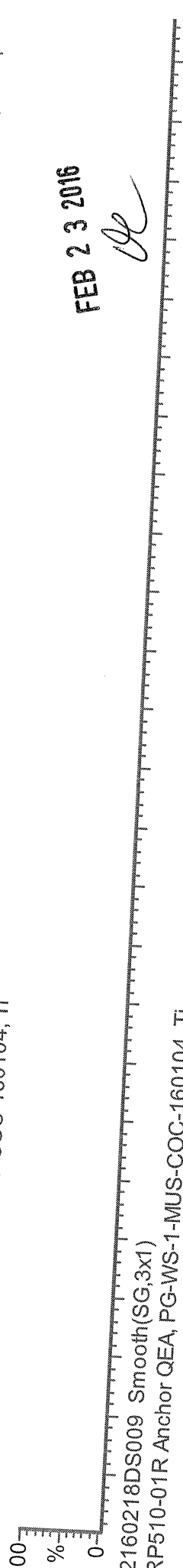
M2160218DS009 Smooth(SG,1x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



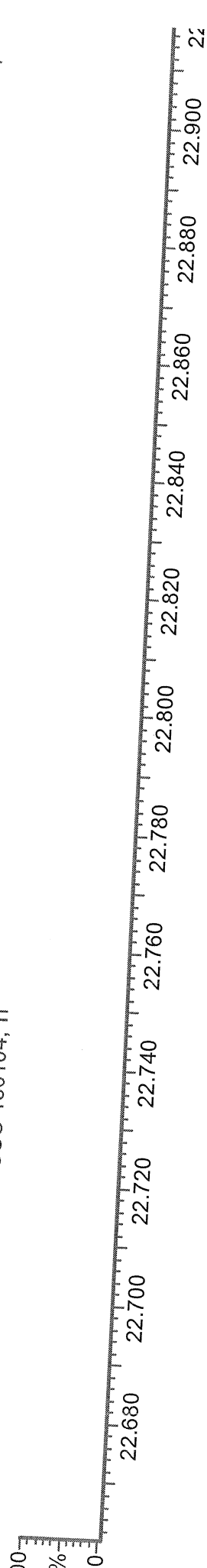
M2160218DS009 Smooth(SG,1x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



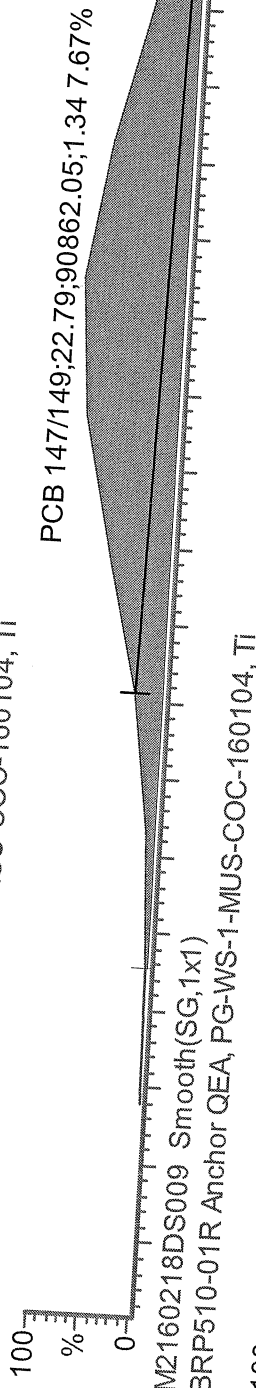
M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



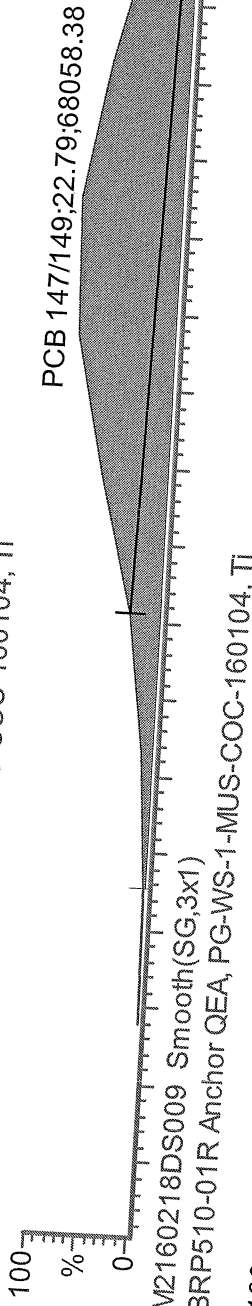
FEB 23 2016

M3 16/02/20 : AH

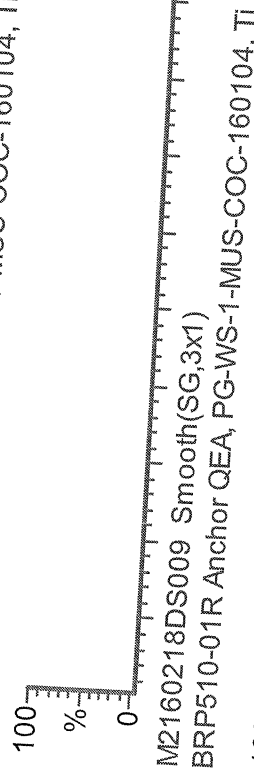
M2160218DS009 Smooth(SG,1x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Tl



M2160218DS009 Smooth(SG,1x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Tl

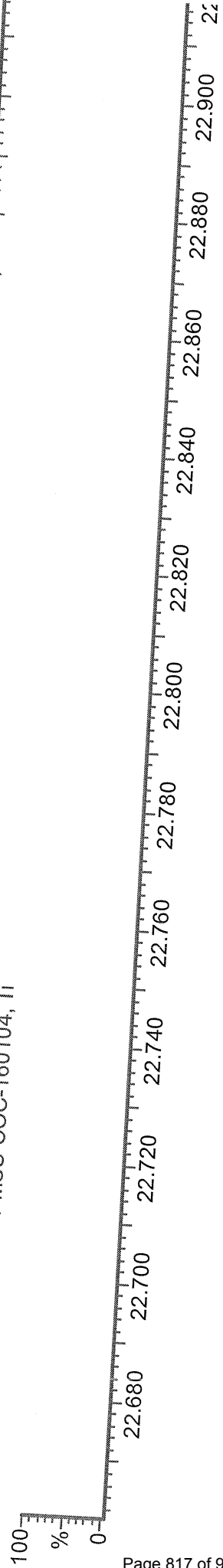


M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Tl



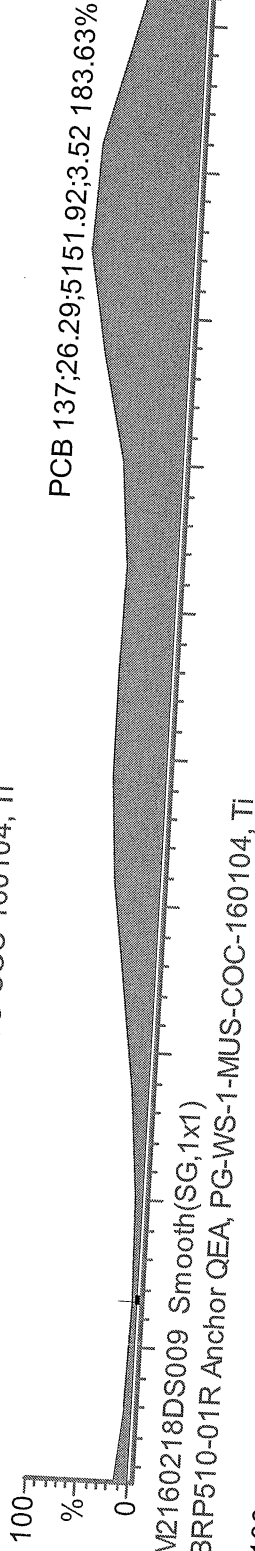
FEB 23 2016

M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Tl

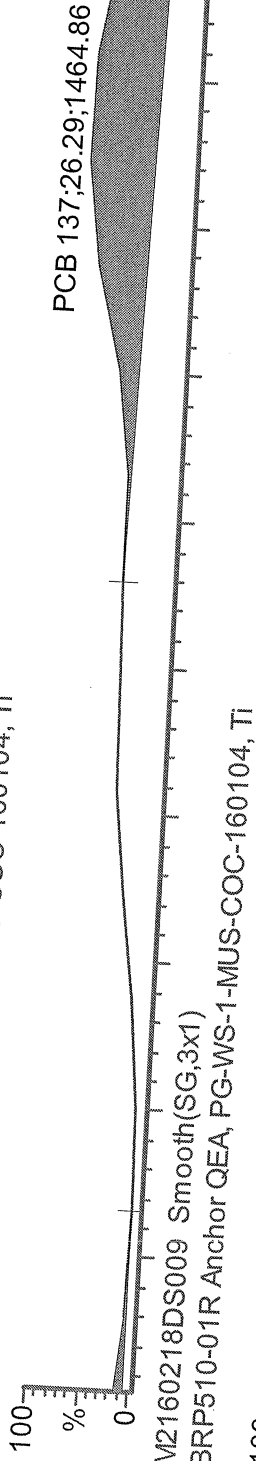


Before
6-02-20
BA

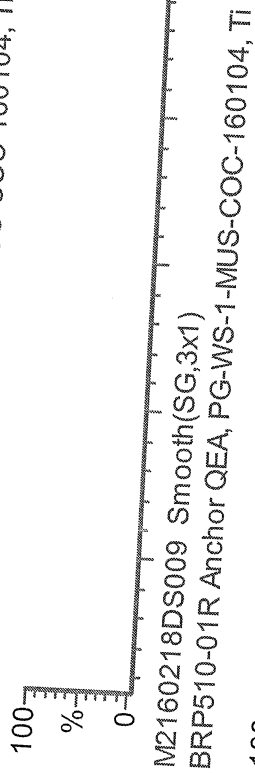
M2160218DS009 Smooth(SG,1x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS009 Smooth(SG,1x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

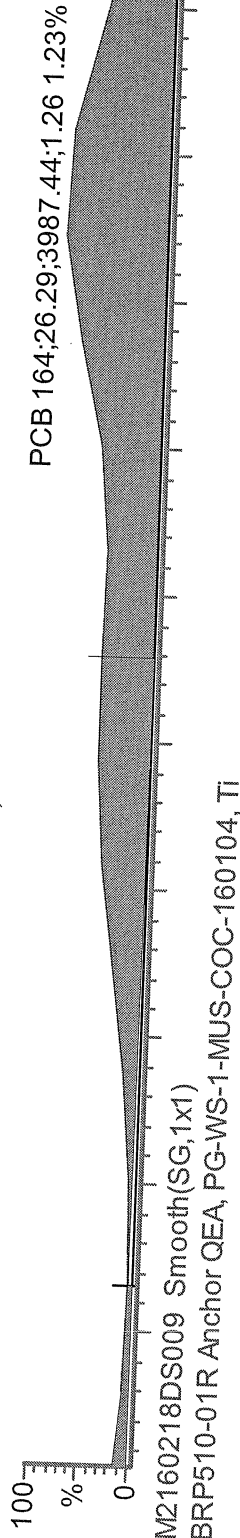


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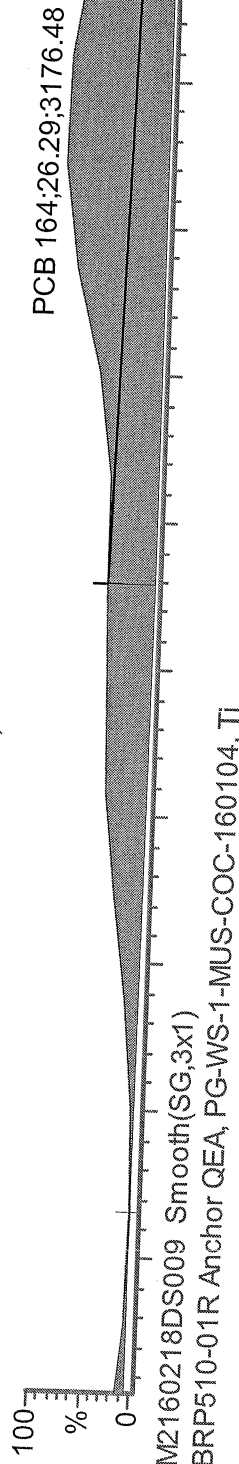
FEB 23 2016

M2 16/02/20 : AH

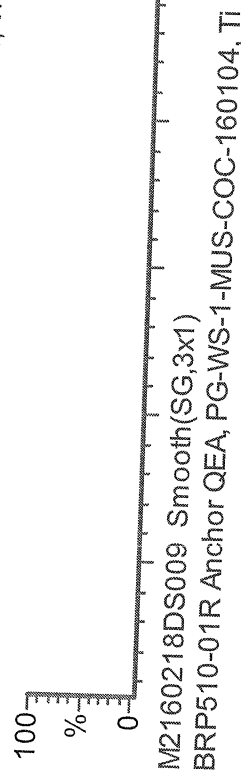
M2160218DS009 Smooth(SG,1x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI



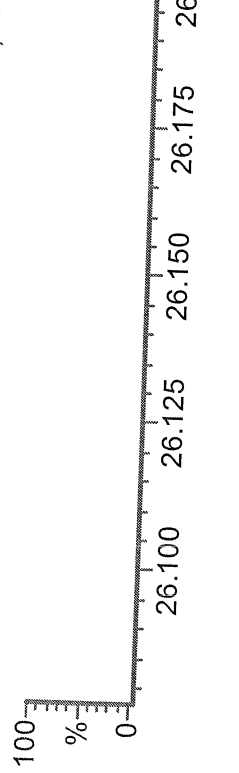
M2160218DS009 Smooth(SG,1x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI



M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI



M2160218DS009 Smooth(SG,3x1)
BRP510-01R Anchor QEA, PG-WS-1-MUS-COC-160104, TI



FEB 23 2016

Sample ID: BRP510-01R:D1

Comments:

Instrument File: Ultima 3
 Sample Size: 10.173

Dil Fac: 1.00

Name	mass	RT	Area	ratio	Tot Area	ng	Code	Isomers	DL	S/N	Mod	rf	Rec
1 PCB 1	188	NotFnd	*	*	*	-0.00063			-0.00063	*	no	1.082	-
	MoCB 190	8.98	*	no	*					*			
2 PCB 2	188	NotFnd	*	*	*	-0.00057			-0.00057	*	no	1.2	-
	MoCB 190	10.10	*	no	*					*			
3 PCB 3	188	NotFnd	*	*	*	-0.00063			-0.00063	*	no	1.079	-
	MoCB 190	10.19	*	no	*					*			
4 PCB 4	222	10.30	1208	1.68	1925	0.003436			-0.00204	38	yes	0.954	-
	DICB 224	10.30	717	yes	*					3			
5 PCB 10	222	NotFnd	*	*	*	-0.00158			-0.00158	*	no	1.229	-
	DICB 224	10.37	*	no	*					*			
6 PCB 9	222	NotFnd	*	*	*	-0.00219			-0.00219	*	no	1.311	-
	DICB 224	11.18	*	no	*					*			
7 PCB 7	222	NotFnd	*	*	*	-0.00246			-0.00246	*	no	1.165	-
	DICB 224	11.26	*	no	*					*			
8 PCB 6	222	11.36	2399	1.49	4011	0.002575			-0.00217	37	no	1.319	-
	DICB 224	11.34	1612	yes	*					3			
9 PCB 5	222	NotFnd	*	*	*	-0.00292			-0.00292	*	no	0.983	-
	DICB 224	11.50	*	no	*					*			
10 PCB 8	222	11.55	9248	1.47	15542	0.009037			-0.00197	141	no	1.456	-
	DICB 224	11.55	6294	yes	*					10			
11 PCB 14	222	NotFnd	*	*	*	-0.00215			-0.00215	*	no	1.332	-
	DICB 224	12.26	*	no	*					*			
12 PCB 11	222	12.64	7118	1.36	12351	0.00814			-0.00223	73	no	1.285	-
	DICB 224	12.66	5233	yes	*					6			
13 PCB 13/12	222	NotFnd	*	*	*	-0.00237			-0.00237	*	no	1.21	-
	DICB 224	12.82	*	no	*					*			
14 PCB 15	222	12.95	25592	1.59	41721	0.027007			-0.00329	261	no	0.871	-
	DICB 224	12.96	16129	yes	*					19			
15 PCB 19	256	11.68	1560	0.93	3239	0.005257			-0.00257	10	no	0.899	-
	TriCB 258	11.70	1678	yes	*					13			
16 PCB 30/18	256	12.49	23070	1.06	44861	0.04289			-0.00284	152	no	0.813	-
	TriCB 258	12.48	21791	yes	*					152			
17 PCB 17	256	12.68	4166	0.99	8357	0.009516			-0.00338	27	no	0.683	-
	TriCB 258	12.69	4191	yes	*					28			
18 PCB 27	256	12.79	4665	1.07	9029	0.007007			-0.0023	27	no	1.002	-
	TriCB 258	12.79	4364	yes	*					25			
19 PCB 24	256	NotFnd	*	*	*	-0.0027			-0.0027	*	no	0.855	-
	TriCB 258	12.87	*	no	*					*			
20 PCB 16	256	12.91	7937	1.05	15520	0.024108			-0.00461	41	no	0.501	-
	TriCB 258	12.90	7583	yes	*					37			
21 PCB 32	256	13.14	7581	1.04	14877	0.010585			-0.00211	46	no	1.093	-
	TriCB 258	13.14	7296	yes	*					47			
22 PCB 34	256	NotFnd	*	*	*	-0.00086			-0.00086	*	no	1.235	-
	TriCB 258	13.74	*	no	*					*			
23 PCB 23	256	NotFnd	*	*	*	-0.00103			-0.00103	*	no	1.033	-
	TriCB 258	13.83	*	no	*					*			
24 PCB 26/29	256	13.97	19325	1.04	37890	0.024129			-0.00087	98	no	1.221	-
	TriCB 258	13.99	18565	yes	*					96			
25 PCB 25	256	14.10	9549	1.09	18344	0.010692			-0.0008	47	no	1.334	-
	TriCB 258	14.10	8795	yes	*					45			
26 PCB 31	256	14.26	102856	1.03	203142	0.118311			-0.0008	516	no	1.335	-
	TriCB 258	14.27	100286	yes	*					505			
27 PCB 28/20	256	14.41	266289	1.04	521393	0.340584			-0.0009	1278	no	1.191	-
	TriCB 258	14.43	255104	yes	*					1323			
28 PCB 21/33	256	14.53	47456	0.95	97131	0.060178			-0.00085	216	no	1.255	-
	TriCB 258	14.53	49675	yes	*					225			
29 PCB 22	256	14.75	41209	1	82634	0.057022			-0.00095	196	no	1.127	-
	TriCB 258	14.77	41425	yes	*					203			
30 PCB 36	256	NotFnd	*	*	*	-0.00068			-0.00068	*	no	1.57	-
	TriCB 258	15.60	*	no	*					*			
31 PCB 39	256	15.84	1645	0.92	3428	0.002019			-0.00081	8	no	1.32	-
	TriCB 258	15.83	1783	yes	*					9			
32 PCB 38	256	NotFnd	*	*	*	-0.00074			-0.00074	*	no	1.438	-
	TriCB 258	16.18	*	no	*					*			
33 PCB 35	256	16.45	2215	1.07	4287	0.002088			-0.00067	8	no	1.597	-
	TriCB 258	16.45	2072	yes	*					9			
34 PCB 37	256	16.70	37828	1.07	73136	0.042822			-0.00118	160	no	0.906	-
	TriCB 258	16.70	35308	yes	*					152			
35 PCB 54	290	NotFnd	*	*	*	-0.00142			-0.00142	*	no	0.911	-
	TCB 292	13.08	*	no	*					*			
36 PCB 53/50	290	14.10	15069	0.82	33510	0.040064			-0.00282	58	no	0.654	-
	TCB 292	14.12	18441	yes	*					56			
37 PCB 45/51	290	14.46	8765	0.79	19863	0.024552			-0.00292	31	no	0.633	-
	TCB 292	14.49	11098	yes	*					31			
38 PCB 46	290	14.64	4562	0.8	10285	0.014531			-0.00333	17	no	0.554	-
	TCB 292	14.64	5723	yes	*					16			
39 PCB 52	290	15.36	111120	0.81	248582	0.233146			-0.00221	418	no	0.834	-
	TCB 292	15.38	137462	yes	*					405			
40 PCB 73	290	NotFnd	*	*	*	-0.00227			-0.00227	*	no	0.813	-
	TCB 292	15.46	*	no	*					*			
41 PCB 43	290	15.53	4812	0.75	11217	0.01699			-0.00358	17	no	0.516	-
	TCB 292	15.53	6405	yes	*					16			
42 PCB 69/49	290	15.65	48058	0.79	108704	0.099901			-0.00217	181	no	0.851	-
	TCB 292	15.64	60646	yes	*					178			

43 PCB 48	290	15.84	27259	0.77	62770	0.072932	-0.00274	98	no	0.673	-
	TCB 292	15.84	35511	yes				95			
44 PCB 44/47/65	290	15.96	105163	0.8	237054	0.236792	-0.00236	325	no	0.783	-
	TCB 292	15.98	131891	yes				311			
45 PCB 59/62/75	290	16.16	13707	0.79	31028	0.02388	-0.00182	44	no	1.017	-
	TCB 292	16.17	17321	yes				42			
46 PCB 42	290	16.27	21371	0.79	48281	0.055418	-0.00271	72	no	0.682	-
	TCB 292	16.30	26910	yes				71			
47 PCB 40/41/71	290	16.58	48044	0.78	109897	0.118822	-0.00255	139	no	0.724	-
	TCB 292	16.58	61853	yes				138			
48 PCB 64	290	16.72	30557	0.81	68358	0.058009	-0.002	103	no	0.922	-
	TCB 292	16.71	37801	yes				98			
49 PCB 72	290	17.20	1577	0.82	3495	0.002096	-0.00071	9	no	1.304	-
	TCB 292	17.19	1918	yes				8			
50 PCB 68	290	17.40	1203	0.82	2667	0.00171	-0.00076	6	no	1.22	-
	TCB 292	17.40	1464	yes				6			
51 PCB 57	290	17.70	674	0.72	1611	0.001032	-0.00076	5	yes	1.221	-
	TCB 292	17.68	938	yes				6			
52 PCB 58	290	NotFnd	*	*	*	-0.0009	-0.0009	*	no	1.035	-
	TCB 292	17.83	*	no				*			
53 PCB 67	290	17.95	3032	0.77	6988	0.00406	-0.00069	16	yes	1.347	-
	TCB 292	17.94	3955	yes				17			
54 PCB 63	290	18.13	2843	0.76	6581	0.00411	-0.00074	16	yes	1.253	-
	TCB 292	18.13	3738	yes				16			
55 PCB 61/70/74/76	290	18.34	68571	0.76	158729	0.112007	-0.00084	253	no	1.109	-
	TCB 292	18.35	90158	yes				254			
56 PCB 66	290	18.57	30751	0.79	69804	0.043987	-0.00075	160	no	1.241	-
	TCB 292	18.58	39053	yes				155			
57 PCB 55	290	NotFnd	*	*	*	-0.00093	-0.00093	*	no	0.998	-
	TCB 292	18.71	*	no				*			
58 PCB 56	290	19.06	4233	0.79	9616	0.007558	-0.00093	24	no	0.995	-
	TCB 292	19.05	5384	yes				22			
59 PCB 60	290	19.22	3385	0.76	7816	0.006191	-0.00094	19	no	0.988	-
	TCB 292	19.22	4430	yes				20			
60 PCB 80	290	NotFnd	*	*	*	-0.00076	-0.00076	*	no	1.224	-
	TCB 292	19.48	*	no				*			
61 PCB 79	290	20.62	705	0.74	1652	0.000884	-0.00063	4	yes	1.462	-
	TCB 292	20.61	947	yes				5			
62 PCB 78	290	NotFnd	*	*	*	-0.00072	-0.00072	*	no	1.287	-
	TCB 292	21.06	*	no				*			
63 PCB 81	290	NotFnd	*	*	*	-0.0009	-0.0009	*	no	1.027	-
	TCB 292	21.43	*	no				*			
64 PCB 77	290	21.87	1535	0.79	3471	0.002137	-0.00086	8	no	1.077	-
	TCB 292	21.87	1936	yes				7			
65 PCB 104	326	NotFnd	*	*	*	-0.00021	-0.00021	*	no	1.094	-
	PeCB 328	15.94	*	no				*			
66 PCB 96	326	16.16	-1035.4	1.55	-1703.4	-0.00147	-0.00026	33	xl	0.874	-
	PeCB 328	16.16	-668	OK				26			
67 PCB 103	326	17.31	1444	1.67	2306	0.002348	-0.00062	13	no	0.739	-
	PeCB 328	17.33	862	yes				12			
68 PCB 94	326	NotFnd	*	*	*	-0.00085	-0.00085	*	no	0.54	-
	PeCB 328	17.47	*	no				*			
69 PCB 95	326	17.75	48679	1.66	77977	0.085931	-0.00067	426	no	0.683	-
	PeCB 328	17.77	29298	yes				408			
70 PCB 100/93/102/98	326	18.00	4637	1.59	7547	0.009172	-0.00074	24	no	0.619	-
	PeCB 328	17.93	2910	yes				24			
71 PCB 88/91	326	18.34	4320	1.65	6934	0.008346	-0.00073	37	yes	0.625	-
	PeCB 328	18.31	2614	yes				33			
72 PCB 84	326	18.50	5268	1.65	8456	0.011911	-0.00086	44	no	0.534	-
	PeCB 328	18.50	3187	yes				39			
73 PCB 89	326	NotFnd	*	*	*	-0.00079	-0.00079	*	no	0.582	-
	PeCB 328	18.84	*	no				*			
74 PCB 121	326	NotFnd	*	*	*	-0.0006	-0.0006	*	no	0.761	-
	PeCB 328	19.08	*	no				*			
75 PCB 92	326	19.36	11253	1.5	18747	0.023593	-0.00077	90	no	0.598	-
	PeCB 328	19.35	7494	yes				95			
76 PCB 113/90/101	326	19.79	84618	1.66	135537	0.143553	-0.00065	681	no	0.71	-
	PeCB 328	19.76	50918	yes				644			
77 PCB 83/99	326	20.23	43946	1.65	70615	0.085249	-0.00074	329	no	0.623	-
	PeCB 328	20.23	26669	yes				308			
78 PCB 112	326	NotFnd	*	*	*	-0.00056	-0.00056	*	no	0.819	-
	PeCB 328	20.34	*	no				*			
79 PCB 109/119/86/97/125/	326	20.68	25148	1.67	40201	0.041637	-0.00063	103	no	0.726	-
	PeCB 328	20.62	15053	yes				103			
80 PCB 117/116/85	326	21.19	10349	1.69	16485	0.015589	-0.00058	72	no	0.796	-
	PeCB 328	21.23	6136	yes				66			
81 PCB 110/115	326	21.30	54663	1.65	87816	0.088127	-0.00061	400	no	0.75	-
	PeCB 328	21.32	33153	yes				377			
82 PCB 82	326	21.58	2307	1.56	3784	0.005043	-0.00081	16	no	0.564	-
	PeCB 328	21.59	1476	yes				17			
83 PCB 111	326	NotFnd	*	*	*	-0.00057	-0.00057	*	no	0.809	-
	PeCB 328	21.85	*	no				*			
84 PCB 120	326	NotFnd	*	*	*	-0.00048	-0.00048	*	no	0.951	-
	PeCB 328	22.25	*	no				*			
85 PCB 108/124	326	23.20	2558	1.52	4236	0.002839	-0.00096	9	yes	1.122	-
	PeCB 328	23.21	1677	yes				8			
86 PCB 107	326	23.40	6726	1.58	10977	0.007198	-0.00093	21	yes	1.147	-
	PeCB 328	23.40	4251	yes				19			
87 PCB 123	326	NotFnd	*	*	*	-0.0012	-0.0012	*	no	0.894	-
	PeCB 328	23.51	*	no				*			
88 PCB 106	326	NotFnd	*	*	*	-0.00088	-0.00088	*	no	1.218	-
	PeCB 328	23.63	*	no				*			
89 PCB 118	326	23.79	82808	1.59	134987	0.091663	-0.00109	248	no	0.981	-
	PeCB 328	23.80	52180	yes				241			

90 PCB 122	326	NotFnd	*	*	*	-0.00099	-0.00099	*	no	1.079	-
	PeCB 328	24.08	*	no				*			
91 PCB 114	326	24.27	1278	1.53	2112	0.001474	-0.00106	4	yes	1.01	-
	PeCB 328	24.28	834	yes				4			
92 PCB 105	326	24.84	27084	1.59	44156	0.030596	-0.0011	77	no	0.977	-
	PeCB 328	24.85	17072	yes				75			
93 PCB 127	326	NotFnd	*	*	*	-0.00087	-0.00087	*	no	1.23	-
	PeCB 328	26.20	*	no				*			
94 PCB 126	326	NotFnd	*	*	*	-0.0011	-0.0011	*	no	0.977	-
	PeCB 328	27.72	*	no				*			
95 PCB 155	360	NotFnd	*	*	*	-0.00151	-0.00151	*	no	0.997	-
	HxCB 362	19.63	*	no				*			
96 PCB 152	360	NotFnd	*	*	*	-0.00186	-0.00186	*	no	0.813	-
	HxCB 362	19.78	*	no				*			
97 PCB 150	360	NotFnd	*	*	*	-0.00232	-0.00232	*	no	0.65	-
	HxCB 362	19.88	*	no				*			
98 PCB 136	360	20.18	10688	1.22	19485	0.020979	-0.00198	40	no	0.761	-
	HxCB 362	20.18	8798	yes				40			
99 PCB 145	360	NotFnd	*	*	*	-0.00228	-0.00228	*	no	0.662	-
	HxCB 362	20.41	*	no				*			
100 PCB 148	360	NotFnd	*	*	*	-0.00274	-0.00274	*	no	0.551	-
	HxCB 362	21.55	*	no				*			
101 PCB 151/135	360	22.03	30075	1.28	53479	0.084427	-0.00291	88	no	0.519	-
	HxCB 362	22.04	23405	yes				85			
102 PCB 154	360	22.23	2105	1.27	3767	0.004996	-0.00244	7	no	0.618	-
	HxCB 362	22.22	1662	yes				8			
103 PCB 144	360	22.49	4117	1.31	7252	0.01057	-0.00269	14	yes	0.562	-
	HxCB 362	22.51	3135	yes				14			
104 PCB 147/149	360	22.80	107086	1.31	188804	0.233631	-0.00127	680	yes	0.662	-
	HxCB 362	22.80	81718	yes				616			
105 PCB 134/143	360	22.97	2604	1.3	4599	0.006433	-0.00144	20	no	0.586	-
	HxCB 362	23.06	1995	yes				18			
106 PCB 139/140	360	23.29	1317	1.28	2343	0.002825	-0.00124	7	no	0.68	-
	HxCB 362	23.31	1026	yes				7			
107 PCB 131	360	NotFnd	*	*	*	-0.00157	-0.00157	*	no	0.537	-
	HxCB 362	23.49	*	no				*			
108 PCB 142	360	NotFnd	*	*	*	-0.00135	-0.00135	*	no	0.626	-
	HxCB 362	23.65	*	no				*			
109 PCB 132	360	23.88	14794	1.22	26971	0.039446	-0.0015	81	no	0.561	-
	HxCB 362	23.88	12177	yes				86			
110 PCB 133	360	24.29	2657	1.35	4623	0.005768	-0.00128	15	no	0.657	-
	HxCB 362	24.31	1966	yes				15			
111 PCB 165	360	NotFnd	*	*	*	-0.0011	-0.0011	*	no	0.765	-
	HxCB 362	24.66	*	no				*			
112 PCB 146	360	24.88	29589	1.25	53240	0.061918	-0.0012	169	no	0.705	-
	HxCB 362	24.87	23651	yes				164			
113 PCB 161	360	NotFnd	*	*	*	-0.00087	-0.00087	*	no	0.97	-
	HxCB 362	25.01	*	no				*			
114 PCB 153/168	360	25.43	251274	1.31	442721	0.425881	-0.00099	1432	no	0.852	-
	HxCB 362	25.46	191447	yes				1342			
115 PCB 141	360	25.61	5202	1.27	9287	0.011173	-0.00124	29	no	0.681	-
	HxCB 362	25.60	4085	yes				26			
116 PCB 130	360	26.00	5393	1.23	9775	0.012988	-0.00137	29	no	0.617	-
	HxCB 362	25.99	4382	yes				27			
117 PCB 137	360	26.23	1622	1.25	2916	0.003936	-0.00139	10	yes	0.607	-
	HxCB 362	26.19	1294	yes				12			
118 PCB 164	360	26.29	4460	1.27	7968	0.007154	-0.00092	24	yes	0.913	-
	HxCB 362	26.28	3508	yes				21			
119 PCB 138/163/129	360	26.59	175425	1.3	310417	0.361162	-0.0012	945	no	0.705	-
	HxCB 362	26.61	134992	yes				894			
120 PCB 160	360	NotFnd	*	*	*	-0.00102	-0.00102	*	no	0.822	-
	HxCB 362	26.78	*	no				*			
121 PCB 158	360	26.96	15360	1.23	27849	0.022729	-0.00084	77	no	1.004	-
	HxCB 362	26.96	12489	yes				79			
122 PCB 128/166	360	27.80	16645	1.27	29781	0.031546	-0.00109	73	no	0.774	-
	HxCB 362	27.79	13136	yes				72			
123 PCB 159	360	NotFnd	*	*	*	-0.00119	-0.00119	*	no	1.179	-
	HxCB 362	28.76	*	no				*			
124 PCB 162	360	29.05	332	1.18	615	-0.00127	-0.00127	*	yes	1.101	-
	HxCB 362	29.06	283	no				*			
125 PCB 167	360	29.51	6749	1.12	12802	0.008454	-0.00148	19	no	0.946	-
	HxCB 362	29.53	6053	yes				21			
126 PCB 156/157	360	30.68	14739	1.19	27156	0.018083	-0.00137	35	no	1.017	-
	HxCB 362	30.71	12416	yes				35			
127 PCB 169	360	NotFnd	*	*	*	-0.00146	-0.00146	*	no	0.954	-
	HxCB 362	34.11	*	no				*			
128 PCB 188	394	NotFnd	*	*	*	-0.00114	-0.00114	*	no	1.012	-
	HpCB 396	24.23	*	no				*			
129 PCB 179	394	24.52	13808	1.1	26399	0.025684	-0.0011	69	no	1.047	-
	HpCB 396	24.52	12591	yes				68			
130 PCB 184	394	NotFnd	*	*	*	-0.0012	-0.0012	*	no	0.961	-
	HpCB 396	25.00	*	no				*			
131 PCB 176	394	25.33	4288	1.17	7937	0.007873	-0.00113	21	no	1.027	-
	HpCB 396	25.32	3649	yes				19			
132 PCB 186	394	NotFnd	*	*	*	-0.00129	-0.00129	*	no	0.899	-
	HpCB 396	25.75	*	no				*			
133 PCB 178	394	27.00	6399	0.99	12866	0.018153	-0.0016	30	no	0.722	-
	HpCB 396	27.01	6468	yes				33			
134 PCB 175	394	27.60	1116	1.07	2161	0.002926	-0.00154	5	no	0.753	-
	HpCB 396	27.62	1045	yes				5			
135 PCB 187	394	27.87	44121	1.04	86563	0.121953	-0.0016	211	no	0.723	-
	HpCB 396	27.88	42442	yes				213			
136 PCB 182	394	NotFnd	*	*	*	-0.00155	-0.00155	*	no	0.747	-
	HpCB 396	28.10	*	no				*			

137 PCB 183	394	28.48	30437	1.08	58539	0.051356	-0.00114	138	yes	1.162	-
	HpCB 396	28.50	28102	yes				132			
138 PCB 185	394	NotFnd	*	*		-0.00155	-0.00155	*	no	0.851	-
	HpCB 396	28.56	*	no				*			
139 PCB 174	394	NotFnd	*	*		-0.00136	-0.00136	*	no	0.97	-
	HpCB 396	28.72	*	no				*			
140 PCB 177	394	29.16	19923	1.06	38715	0.041838	-0.0014	85	no	0.943	-
	HpCB 396	29.14	18792	yes				82			
141 PCB 181	394	NotFnd	*	*		-0.00148	-0.00148	*	no	0.892	-
	HpCB 396	29.56	*	no				*			
142 PCB 171/173	394	29.78	10851	1.11	20599	0.022136	-0.0014	47	no	0.948	-
	HpCB 396	29.78	9748	yes				48			
143 PCB 172	394	31.43	1224	1.07	2371	0.002544	-0.00139	6	no	0.95	-
	HpCB 396	31.42	1147	yes				6			
144 PCB 192	394	NotFnd	*	*		-0.00122	-0.00122	*	no	1.085	-
	HpCB 396	31.74	*	no				*			
145 PCB 193/180	394	32.13	65034	1.08	125244	0.111374	-0.00096	259	no	1.383	-
	HpCB 396	32.06	60210	yes				253			
146 PCB 191	394	32.50	1498	0.95	3076	0.002318	-0.00096	6	no	1.352	-
	HpCB 396	32.48	1578	yes				6			
147 PCB 170	394	33.45	11990	1.12	22734	0.024957	-0.00104	47	no	1.271	-
	HpCB 396	33.45	10744	yes				45			
148 PCB 190	394	34.01	6854	1.02	13597	0.010304	-0.00098	28	yes	1.345	-
	HpCB 396	34.02	6743	yes				28			
149 PCB 189	394	36.87	2159	1.15	4038	0.002708	-0.00043	14	no	0.944	-
	HpCB 396	36.88	1880	yes				16			
150 PCB 202	428	29.26	3690	1	7365	0.010135	-0.00188	16	no	0.988	-
	OcCB 430	29.28	3675	yes				15			
151 PCB 201	428	30.19	1720	0.81	3854	0.004192	-0.00186	8	no	0.997	-
	OcCB 430	30.18	2134	yes				8			
152 PCB 204	428	NotFnd	*	*		-0.00193	-0.00193	*	no	0.962	-
	OcCB 430	30.89	*	no				*			
153 PCB 197	428	31.13	718	0.97	1458	-0.00212	-0.00212	*	yes	0.876	-
	OcCB 430	31.12	740	no				*			
154 PCB 200	428	31.23	20	0.85	44	-0.00185	-0.00185	*	yes	1.006	-
	OcCB 430	31.24	24	no				*			
155 PCB 198/199	428	NotFnd	*	*		-0.00284	-0.00284	*	no	0.654	-
	OcCB 430	34.19	*	no				*			
156 PCB 196	428	NotFnd	*	*		-0.00276	-0.00276	*	no	0.674	-
	OcCB 430	34.92	*	no				*			
157 PCB 203	428	35.12	2653	0.9	5588	0.009196	-0.00282	11	no	0.659	-
	OcCB 430	35.12	2935	yes				10			
158 PCB 195	428	NotFnd	*	*		-0.00156	-0.00156	*	no	1.005	-
	OcCB 430	36.59	*	no				*			
159 PCB 194	428	39.20	-3785.17	0.89	-8038.17	-0.00798	-0.00143	15	xL	1.091	-
	OcCB 430	39.22	-4253	OK				12			
160 PCB 205	428	NotFnd	*	*		-0.00143	-0.00143	*	no	1.091	-
	OcCB 430	39.77	*	no				*			
161 PCB 208	462	NotFnd	*	*		-0.00159	-0.00159	*	no	1.023	-
	NoCB 464	36.31	*	no				*			
162 PCB 207	462	NotFnd	*	*		-0.00123	-0.00123	*	no	1.32	-
	NoCB 464	37.32	*	no				*			
163 PCB 206	462	NotFnd	*	*		-0.00158	-0.00158	*	no	1.027	-
	NoCB 464	41.70	*	no				*			
164 PCB 209	498	NotFnd	*	*		-0.00263	-0.00263	*	no	1.04	-
	DCB 500	43.54	*	no				*			
165 PCB 1L	200	8.98	218884	3.48	281700	0.18552	0.001	3644	no	0.824	94
	202	8.97	62816	yes				340			
166 PCB 3L	200	10.17	193011	3.51	248075	0.157899	0.001	3178	no	0.852	80
	202	10.16	55064	yes				298			
167 PCB 4L	234	10.28	71778	1.64	115490	0.115468	0	3835	no	0.543	59
	236	10.28	43712	yes				3962			
168 PCB 15L	234	12.93	215276	1.61	348881	0.17618	0	2432	no	1.074	90
	236	12.91	133605	yes				1721			
169 PCB 19L	268	11.68	69652	1.07	134780	0.126456	0.001	639	no	0.578	64
	270	11.66	65128	yes				554			
170 PCB 37L	268	16.68	190813	1.06	370823	0.218493	0.001	472	no	1.987	111
	270	16.67	180010	yes				820			
171 PCB 54L	302	13.06	61324	0.79	139086	0.125491	0	1102	no	1.297	64
	304	13.06	77763	yes				1632			
172 PCB 81L	302	21.41	141639	0.8	318376	0.214434	0	806	no	1.738	109
	304	21.39	176737	yes				2435			
173 PCB 77L	302	21.85	133594	0.82	296453	0.206909	0	732	no	1.677	105
	304	21.82	162859	yes				2199			
174 PCB 104L	338	15.93	87016	1.63	140304	0.163548	0	6357	no	1.156	83
	340	15.93	53287	yes				2470			
175 PCB 123L	338	23.49	187960	1.65	301886	0.210076	0	2058	no	1.936	107
	340	23.50	113927	yes				2392			
176 PCB 118L	338	23.77	180587	1.58	294988	0.208513	0	1963	no	1.906	106
	340	23.76	114401	yes				2379			
177 PCB 114L	338	24.26	172893	1.63	278877	0.21191	0	1848	no	1.773	108
	340	24.25	105984	yes				2219			
178 PCB 105L	338	24.83	178712	1.6	290562	0.214783	0	1853	no	1.822	109
	340	24.81	111850	yes				2235			
179 PCB 126L	338	27.69	169689	1.56	278696	0.21633	0	1646	no	1.735	110
	340	27.67	109007	yes				1999			
180 PCB 155L	372	19.61	86996	1.27	155356	0.145963	0	5503	no	1.404	74
	374	19.61	68360	yes				4541			
181 PCB 167L	372	29.50	175506	1.26	314773	0.196734	0	3353	no	2.11	100
	374	29.50	139267	yes				1118			
182 PCB 156L/157L	372	30.68	330468	1.32	580569	0.398548	0	5060	no	1.921	101
	374	30.69	250101	yes				1610			
183 PCB 169L	372	34.08	110716	1.26	198893	0.139044	0	1922	no	1.886	71
	374	34.06	88176	yes				641			

184 PCB 188L	406	24.20	82726	1.07	160216	0.158924	0	4021	no	1.329	81
	408	24.21	77490	yes				4125			
185 PCB 180L	406	32.09	83331	1.09	159914	0.157328	0	1847	no	1.349	80
	408	32.09	76583	yes				2829			
186 PCB 170L	406	33.42	72808	1.07	140906	0.158413	0	1586	no	1.18	81
	408	33.42	68098	yes				2529			
187 PCB 189L	406	36.84	161506	1.08	310655	0.191056	0	2869	no	2.157	97
	408	36.83	149149	yes				2509			
188 PCB 202L	440	29.25	68727	0.9	144671	0.135224	0	5076	no	1.419	69
	442	29.27	75944	yes				2271			
189 PCB 205L	440	39.73	104769	0.93	218057	0.188929	0	2574	no	1.531	96
	442	39.73	113288	yes				1887			
190 PCB 208L	474	36.27	59602	0.8	134172	0.156231	0	3439	no	1.139	79
	476	36.28	74570	yes				2036			
191 PCB 206L	474	41.70	44392	0.8	100030	0.174728	0	2491	no	0.76	89
	476	41.73	55637	yes				1451			
192 PCB 209L	510	43.54	51297	1.2	93999	0.17218	0	2223	no	0.724	88
	512	43.53	42702	yes				1746			
193 PCB 28L	268	14.41	218829	1.04	429481	0.24651	0.001	617	no	2.039	113
PCB Cleanup Standard	270	14.41	210652	yes				1076			
194 PCB 111L	338	21.83	133113	1.65	213940	0.214588	0	5031	no	1.343	98
PCB Cleanup Standard	340	21.84	80827	yes				2598			
195 PCB 178L	406	26.98	57098	1.08	110194	0.198259	0	2585	no	0.733	91
PCB Cleanup Standard	408	26.97	53096	yes				2658			
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	11.18	1240308	1.61	2013045	10.15711	-	15569	no	-	-
PCB Recovery Standard	236	11.19	772738	yes				11069			
200 PCB 52L	302	15.35	417980	0.81	933049	7.276455	-	4908	no	-	-
PCB Recovery Standard	304	15.36	515068	yes				10818			
201 PCB 101L	338	19.77	502581	1.63	810721	7.265971	-	20096	no	-	-
PCB Recovery Standard	340	19.76	308140	yes				10454			
202 PCB 138L	372	26.57	471215	1.32	828212	7.573036	-	11121	no	-	-
PCB Recovery Standard	374	26.56	356997	yes				14586			
203 PCB 194L	440	39.18	395957	0.93	823163	7.494846	-	10166	no	-	-
PCB Recovery Standard	442	39.17	427206	yes				7317			
Chlorobiphenyls					-0.00063		0	-0.00063			
Dichlorobiphenyls					0.050195		5	-0.00329			
Trichlorobiphenyls					0.757208		15	-0.00461			
Tetrachlorobiphenyls					1.180809		23	-0.00358			
Pentachlorobiphenyls					0.654269		17	-0.0012			
Hexachlorobiphenyls					1.374099		20	-0.00291			
Heptachlorobiphenyls					0.446124		14	-0.0016			
Octachlorobiphenyls					0.023523		3	-0.00284			
Nonachlorobiphenyls					-0.00159		0	-0.00159			
Decachlorobiphenyl					-0.00263		0	-0.00263			
PCB (total)					4.486227						

Acquired Date

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Printed: February 20, 2016 02:11:48 PM Eastern Standard Time

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

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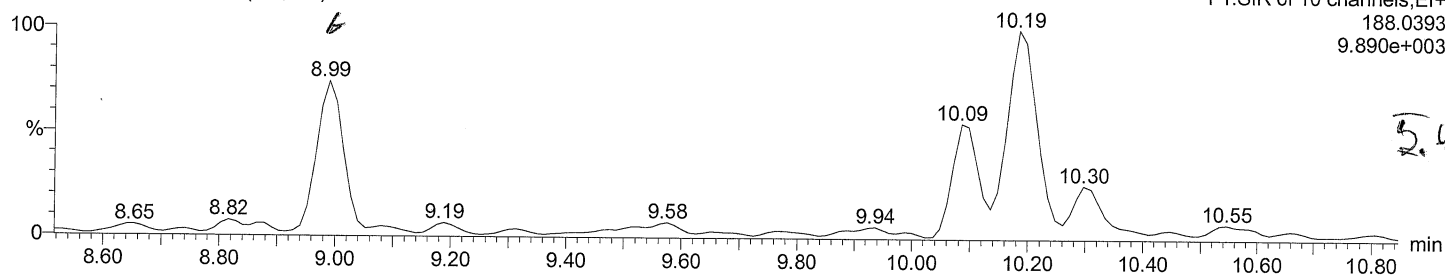
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Date: 18-FEB-2016

Time: 01:59:15

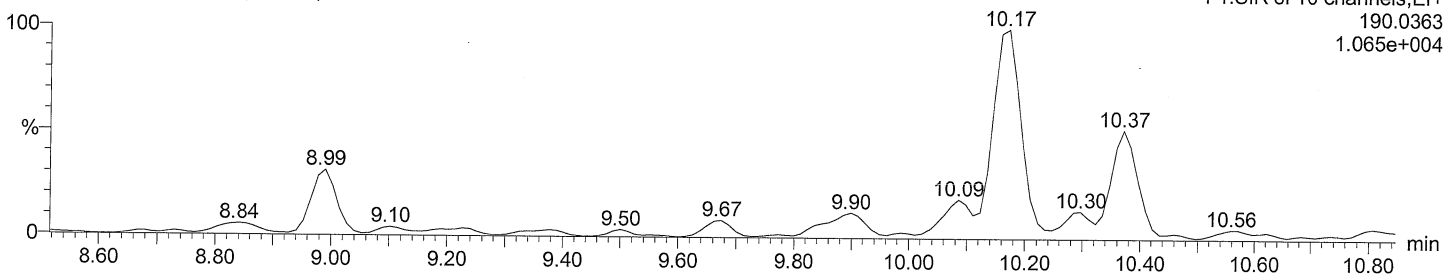
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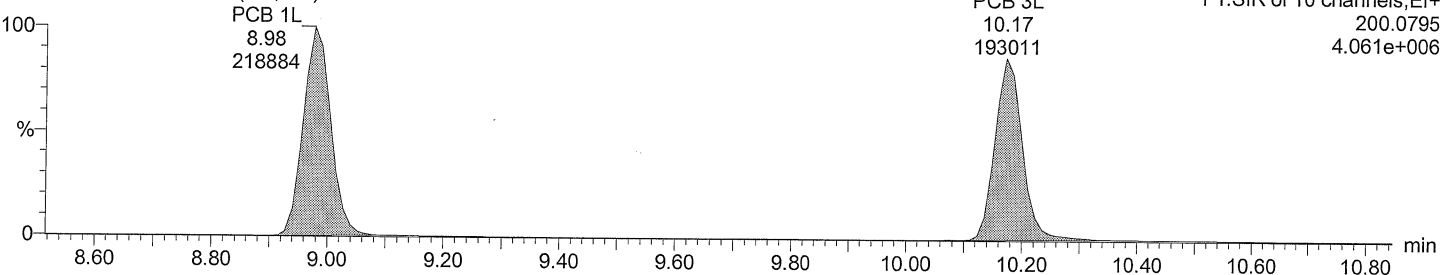
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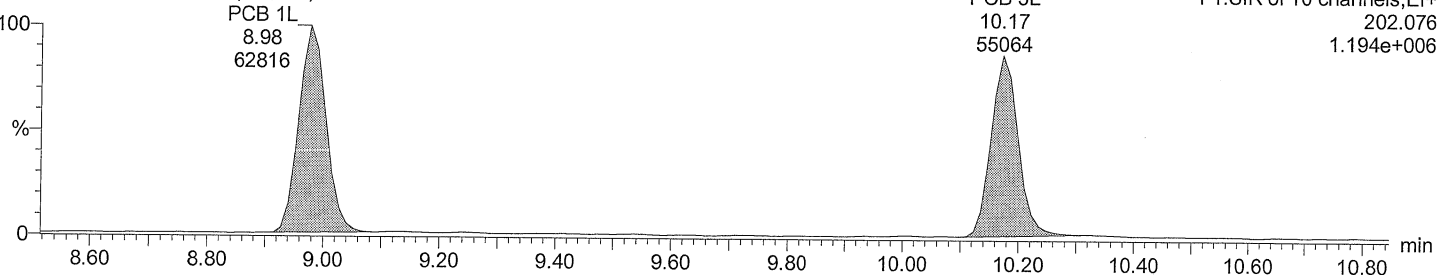
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Total MoCB labeled F1

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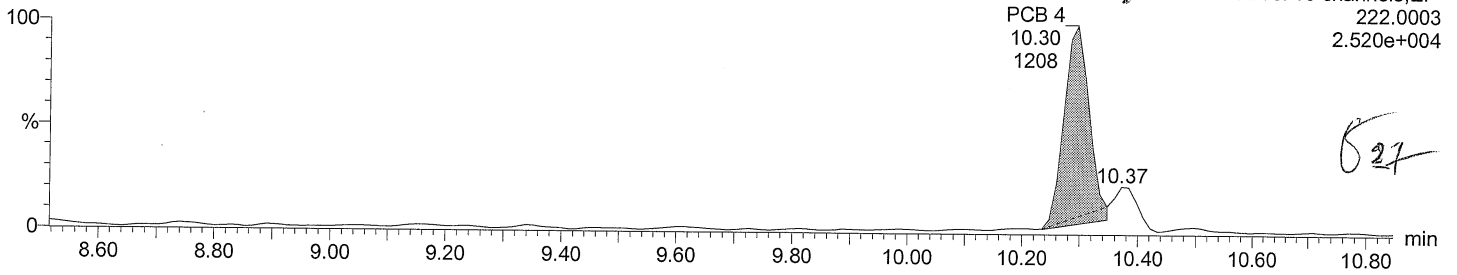
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Description: BRP510-01R:D1
Vial: 10
Date: 18-FEB-2016
Time: 01:59:15

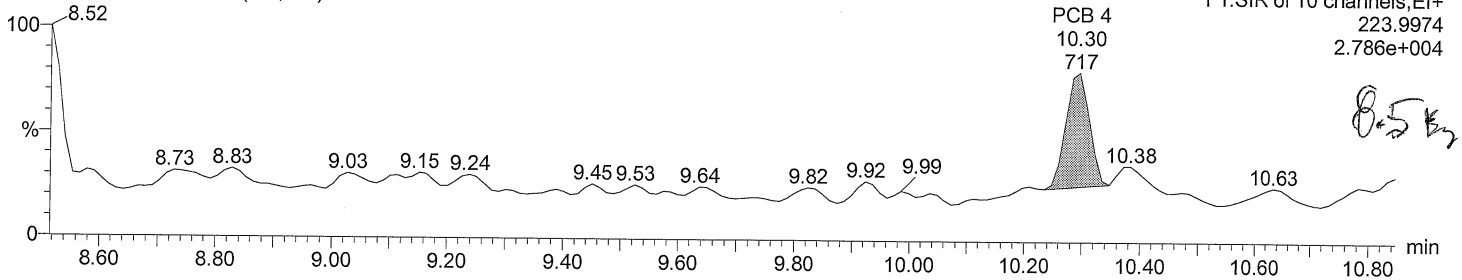
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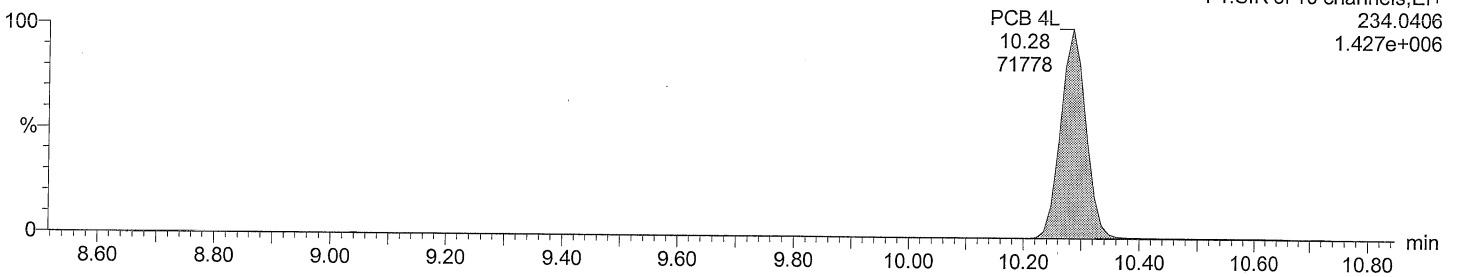
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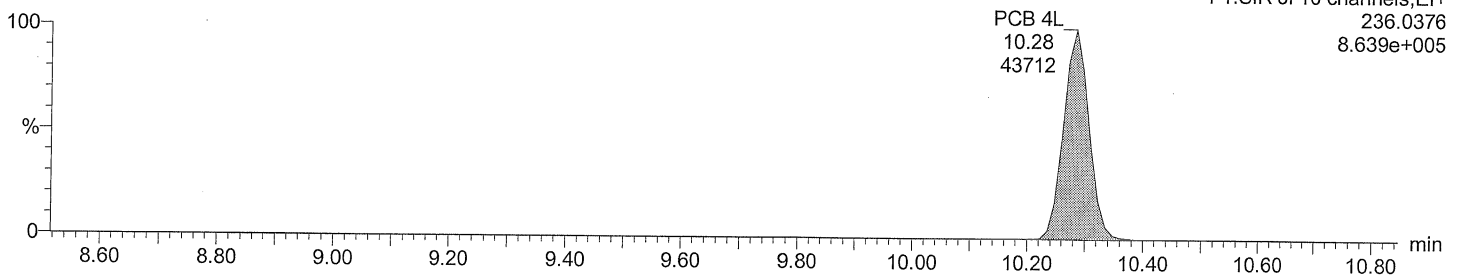
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Total DiCB labeled F1

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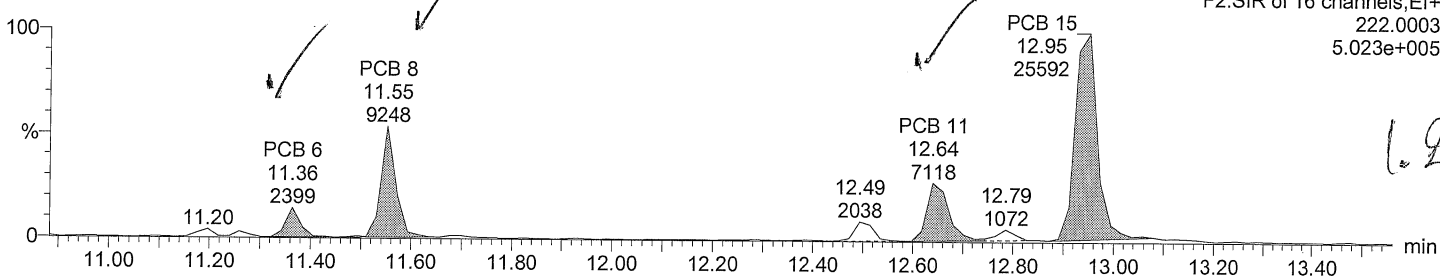
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Date: 18-FEB-2016
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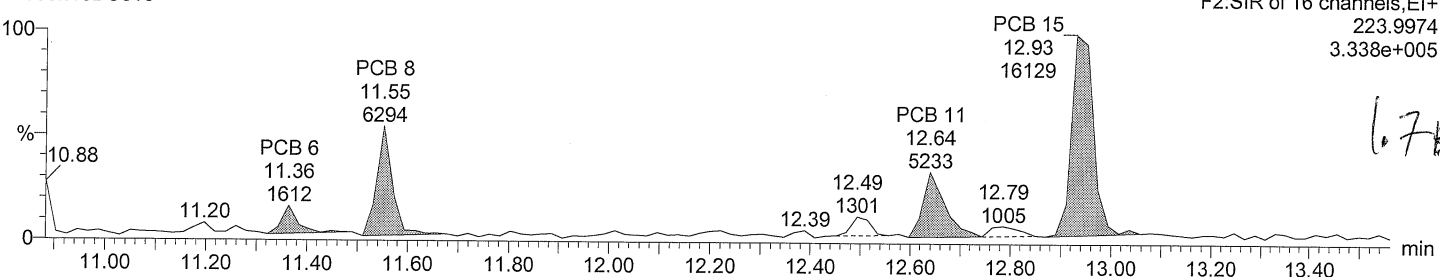
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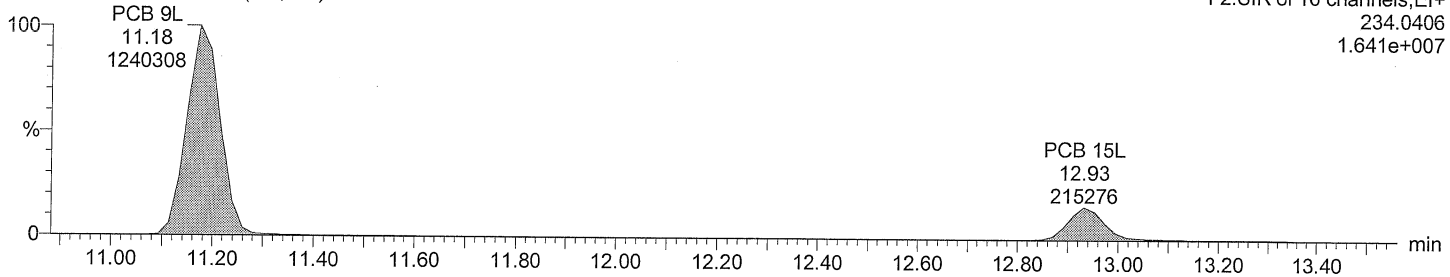
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M2160218DS010



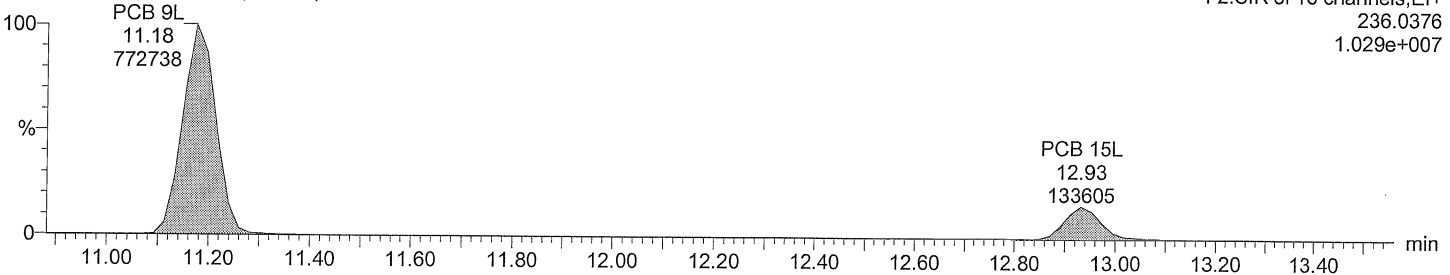
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M2160218DS010 Smooth(SG,3x1)



Total DiCB labeled F2

M2160218DS010 Smooth(SG,3x1)

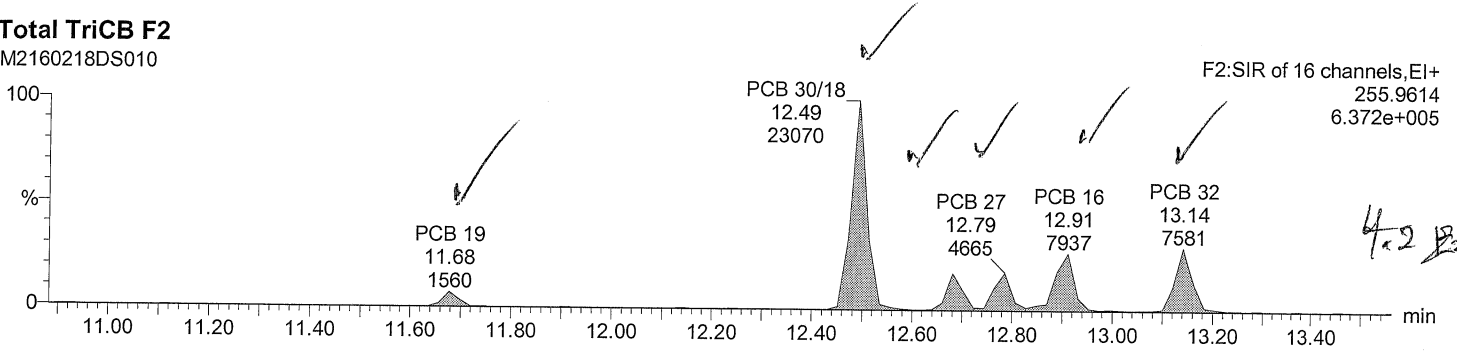


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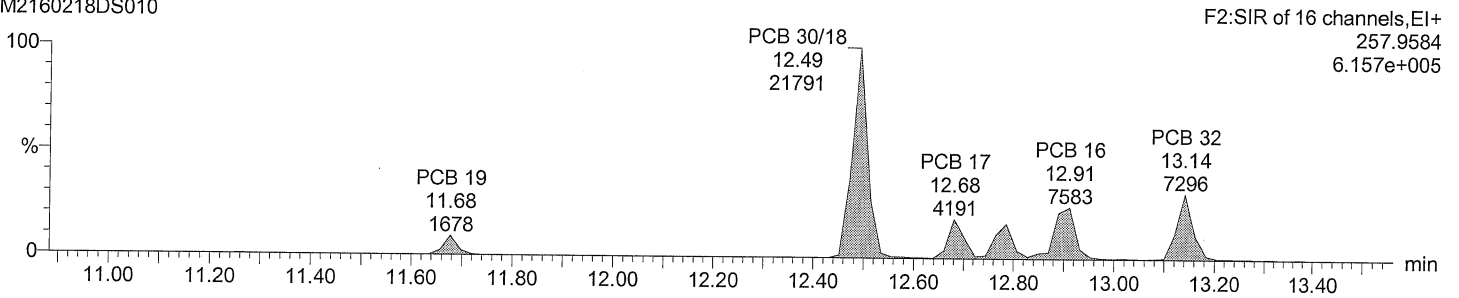
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Vial: 10
Date: 18-FEB-2016
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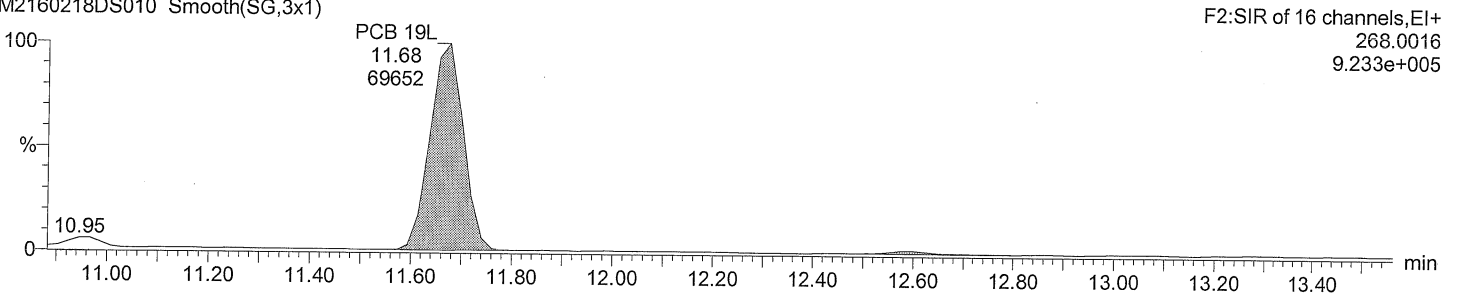
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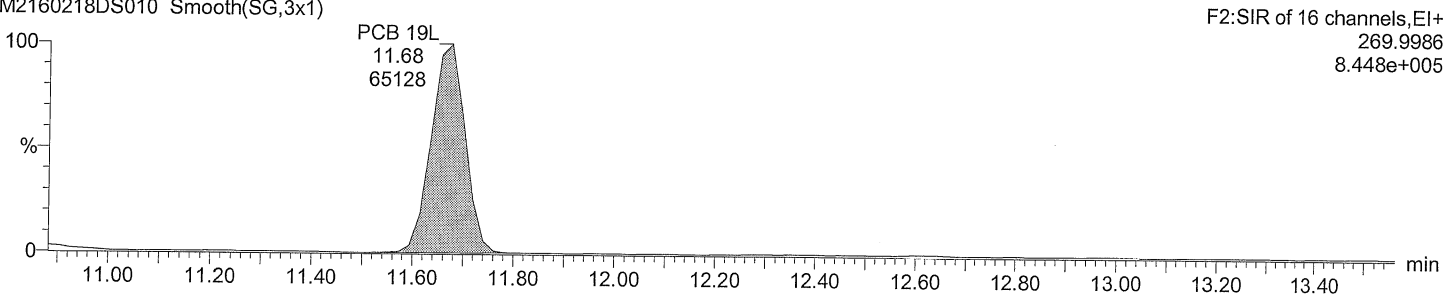
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Total TriCB labeled F2
M2160218DS010 Smooth(SG,3x1)



Total TriCB labeled F2
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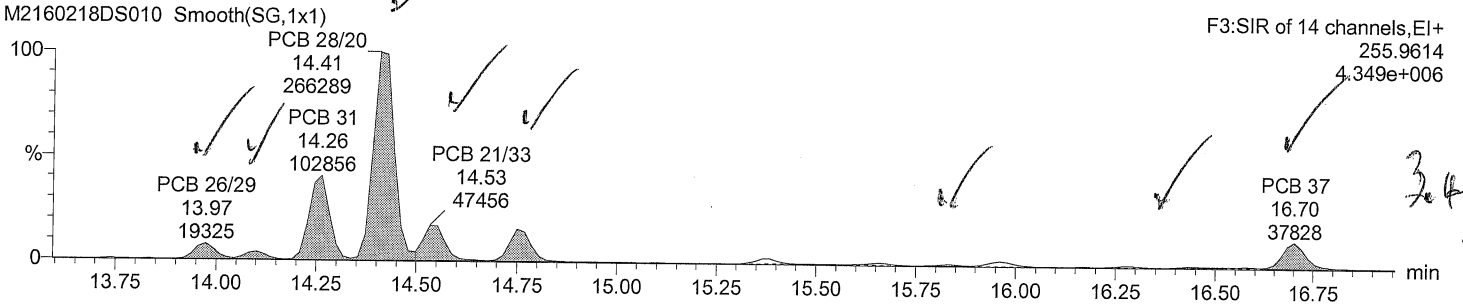


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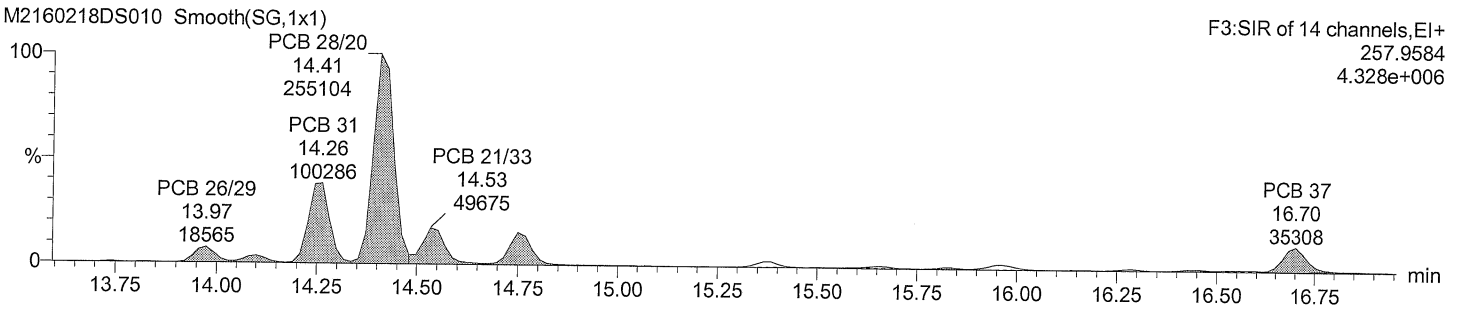
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Date: 18-FEB-2016
Time: 01:59:15

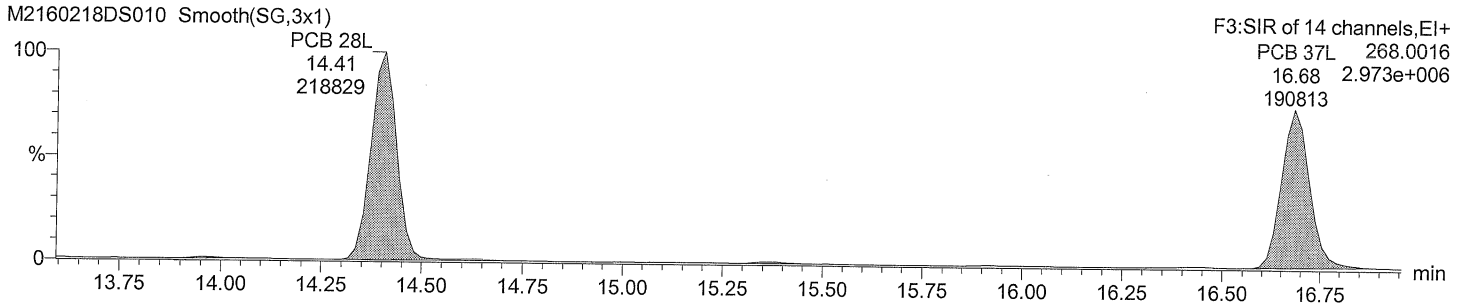
Total TriCB F3



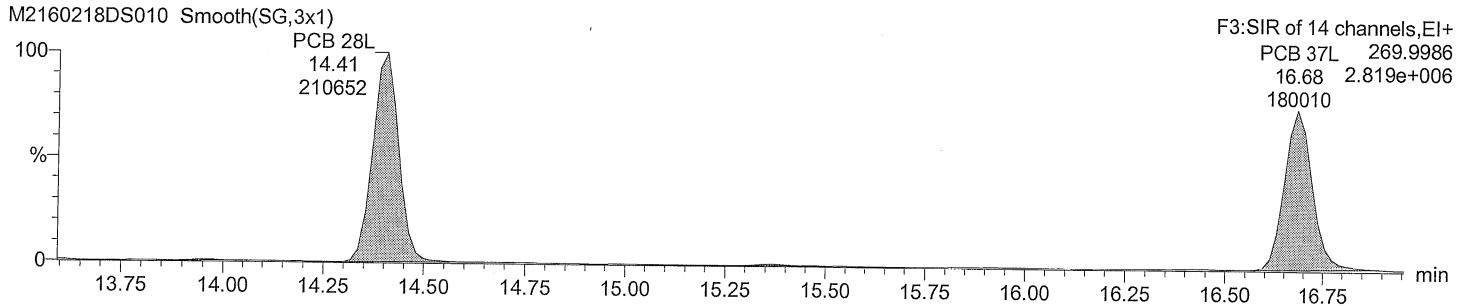
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time

Printed: February 20, 2016 02:11:48 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R:D1

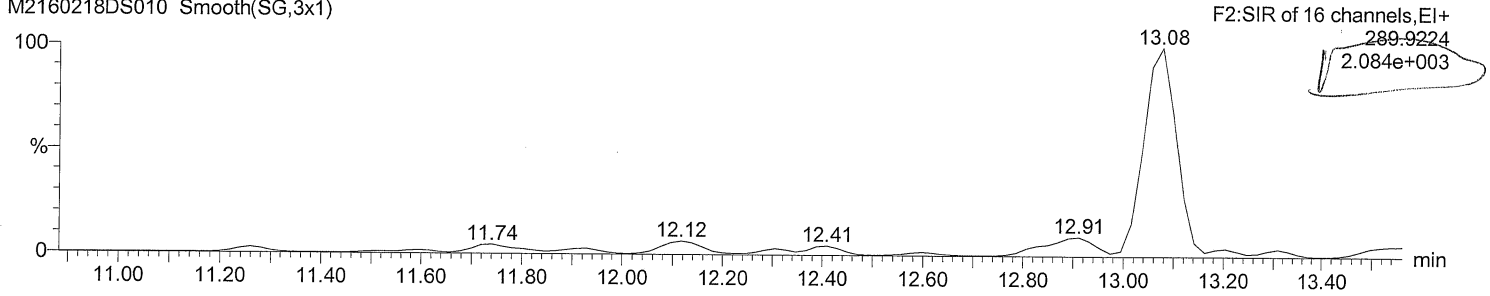
Vial: 10

Date: 18-FEB-2016

Time: 01:59:15

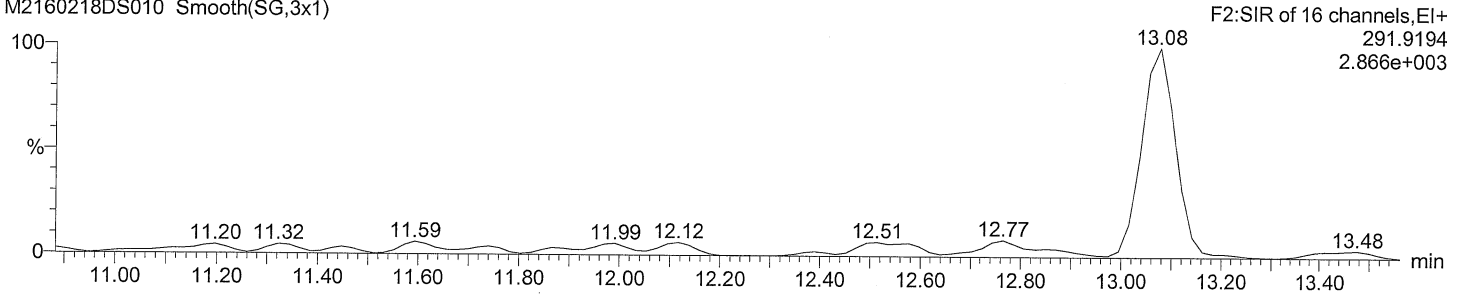
Total TeCB F2

M2160218DS010 Smooth(SG,3x1)



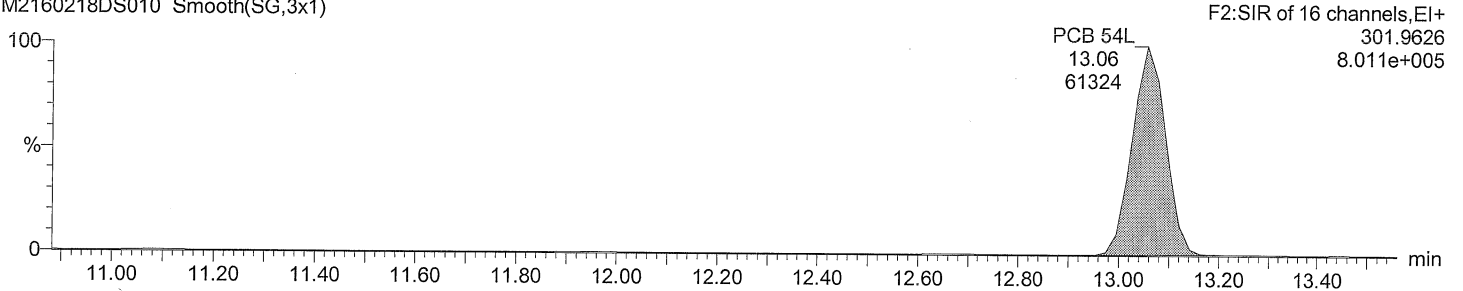
Total TeCB F2

M2160218DS010 Smooth(SG,3x1)



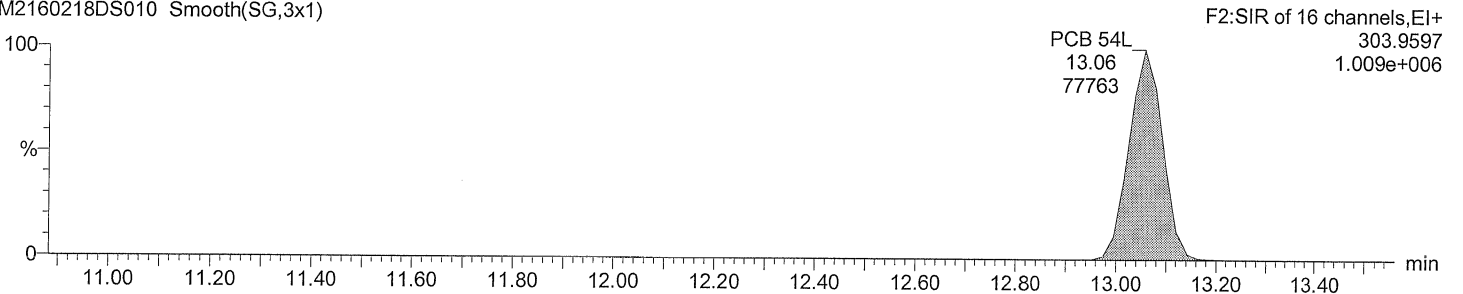
Total TeCB labeled F2

M2160218DS010 Smooth(SG,3x1)



Total TeCB labeled F2

M2160218DS010 Smooth(SG,3x1)



Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time
Printed: February 20, 2016 02:11:48 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R:D1

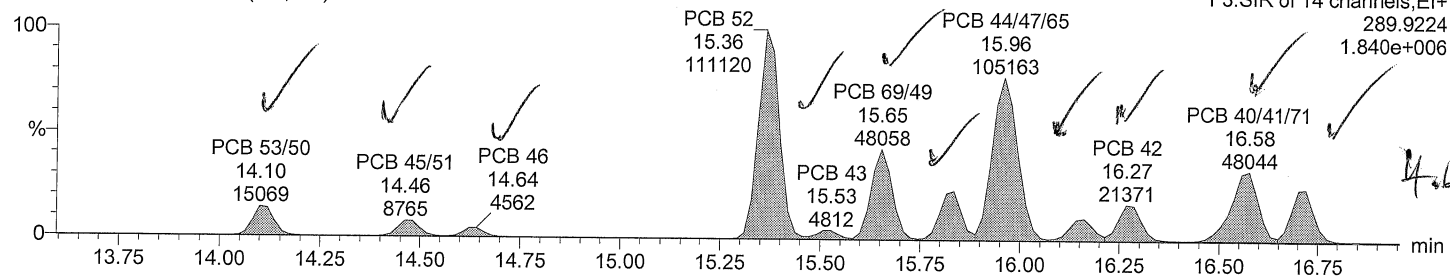
Vial: 10

Date: 18-FEB-2016

Time: 01:59:15

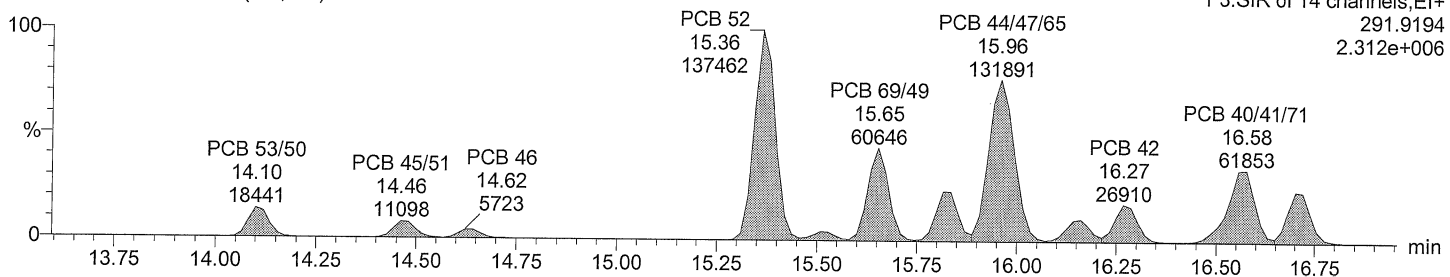
Total TeCB F3

M2160218DS010 Smooth(SG,1x1)



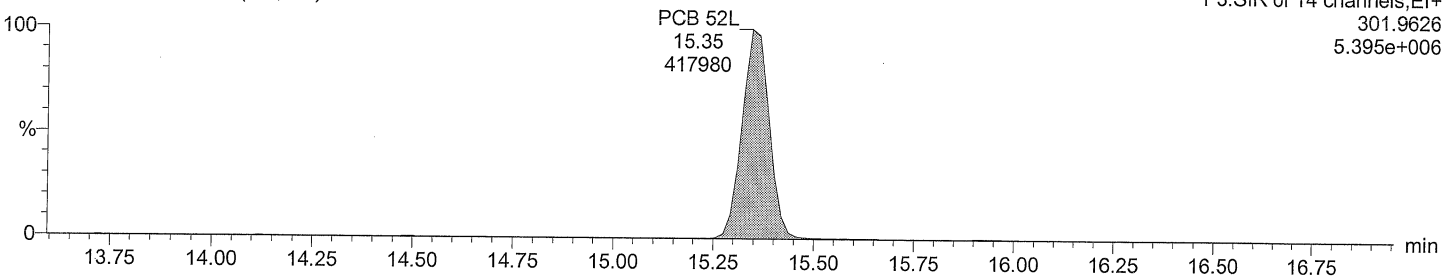
Total TeCB F3

M2160218DS010 Smooth(SG,1x1)



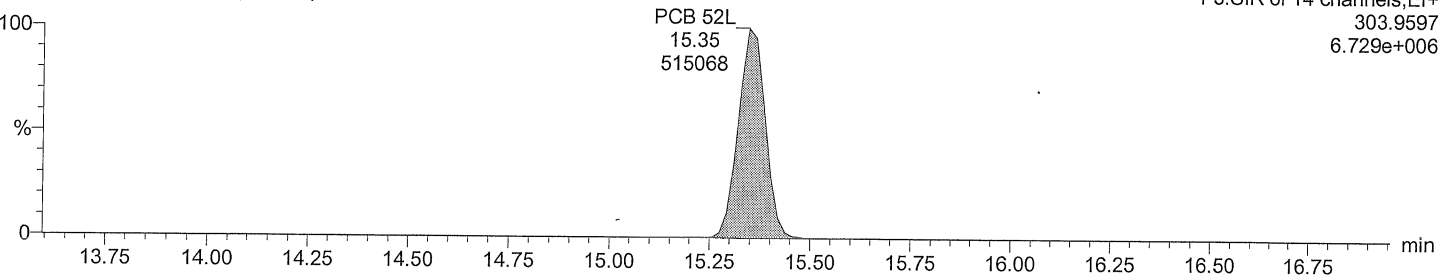
Total TeCB labeled F3

M2160218DS010 Smooth(SG,3x1)



Total TeCB labeled F3

M2160218DS010 Smooth(SG,3x1)



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time

Printed: February 20, 2016 02:11:48 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

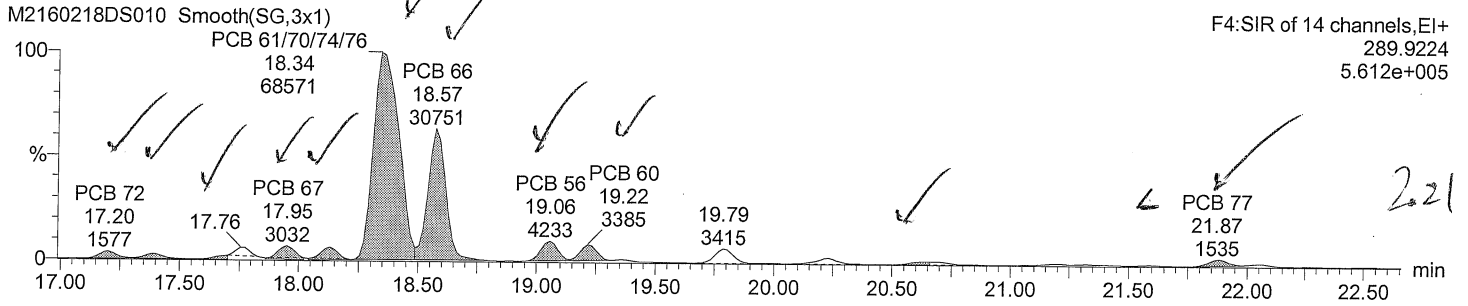
Description: BRP510-01R:D1

Vial: 10

Date: 18-FEB-2016

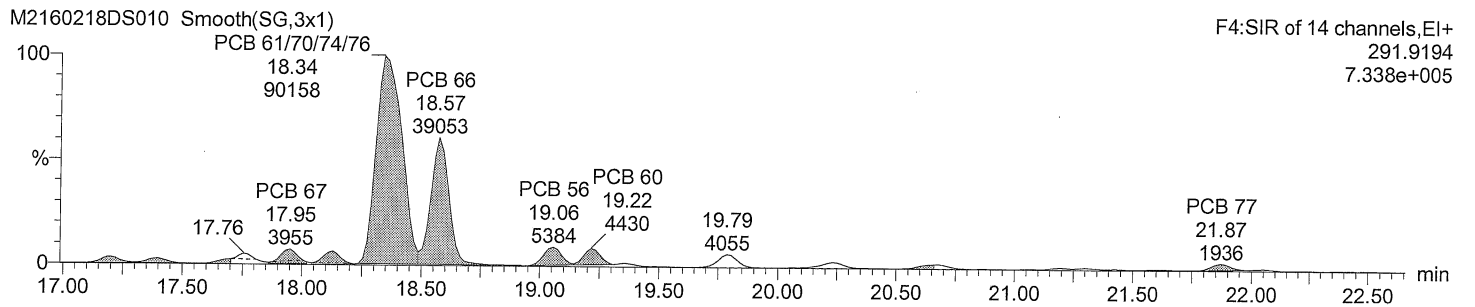
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Total TeCB F4

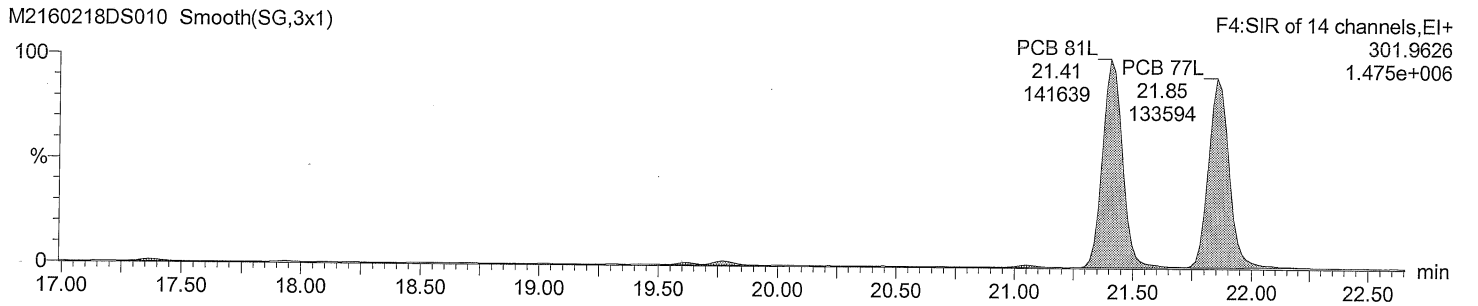


221 pg ..

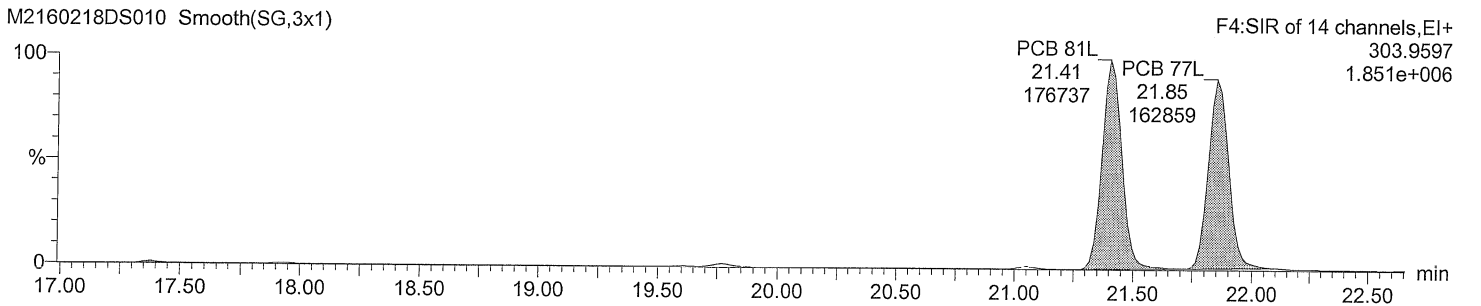
Total TeCB F4



Total TeCB labeled F4



Total TeCB labeled F4



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time

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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R:D1

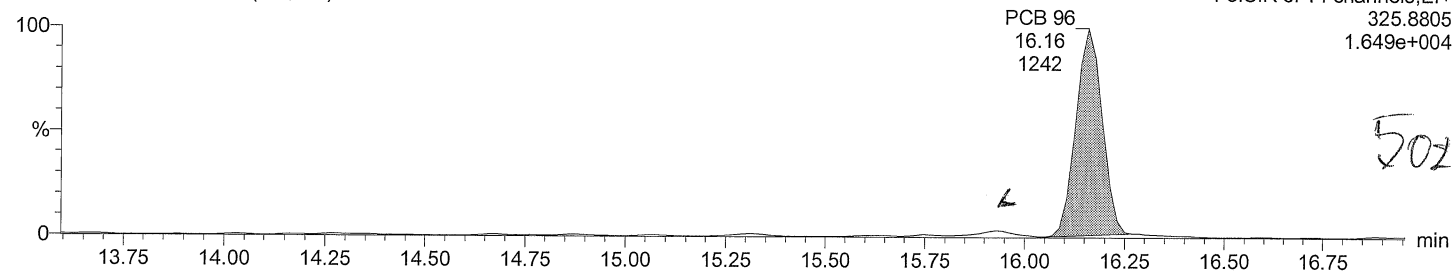
Vial: 10

Date: 18-FEB-2016

Time: 01:59:15

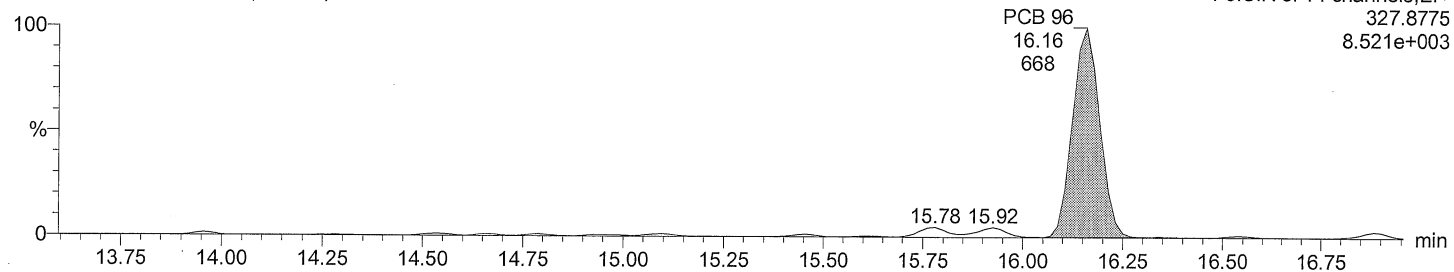
Total PeCB F3

M2160218DS010 Smooth(SG,3x1)



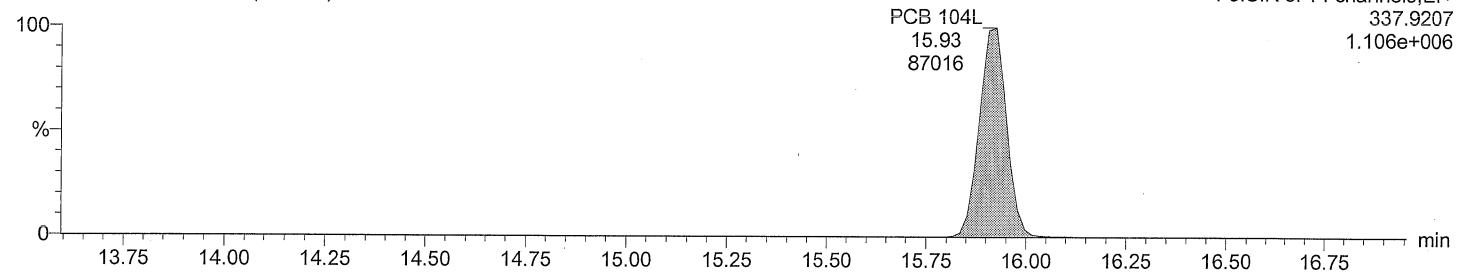
Total PeCB F3

M2160218DS010 Smooth(SG,3x1)



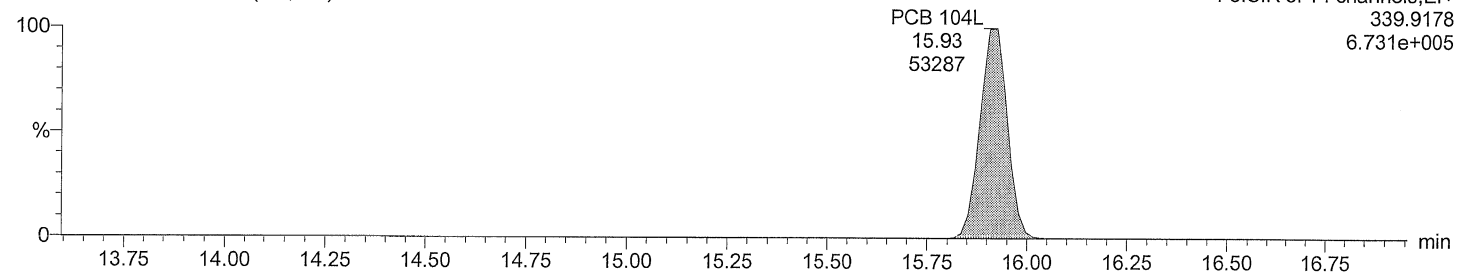
Total PeCB labeled F3

M2160218DS010 Smooth(SG,3x1)



Total PeCB labeled F3

M2160218DS010 Smooth(SG,3x1)



Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time
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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R:D1

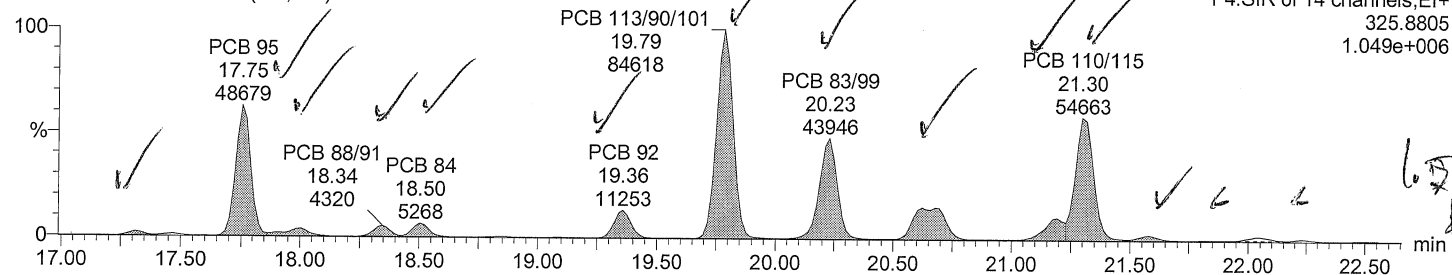
Vial: 10

Date: 18-FEB-2016

Time: 01:59:15

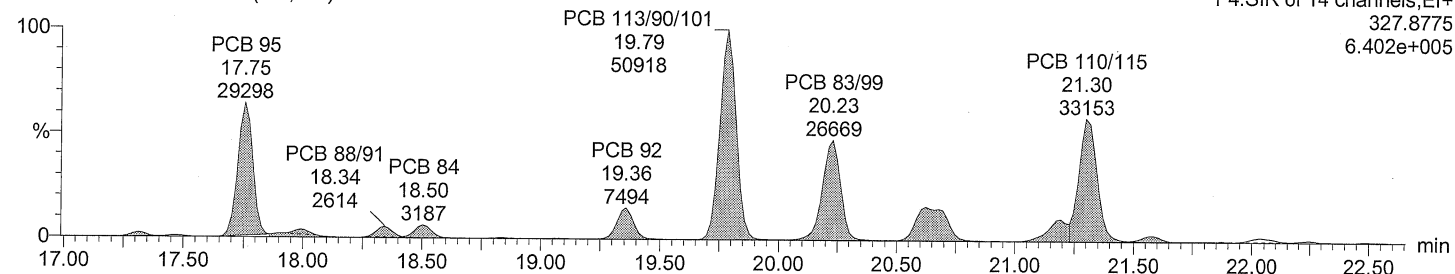
Total PeCB F4

M2160218DS010 Smooth(SG,2x1)



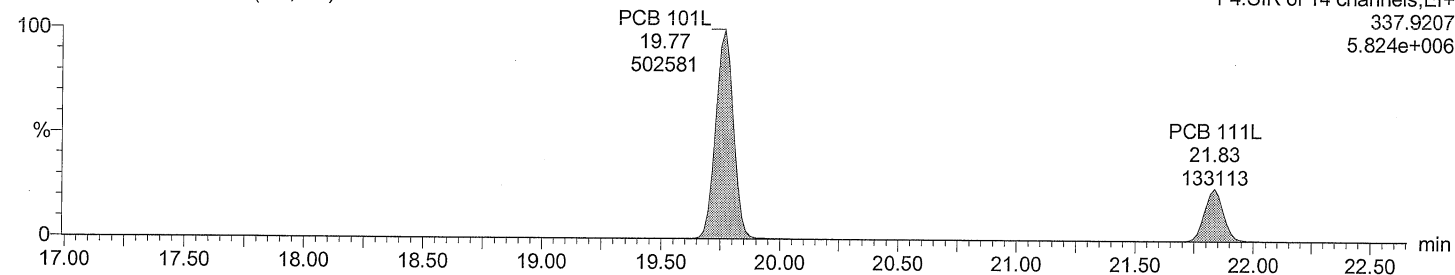
Total PeCB F4

M2160218DS010 Smooth(SG,2x1)



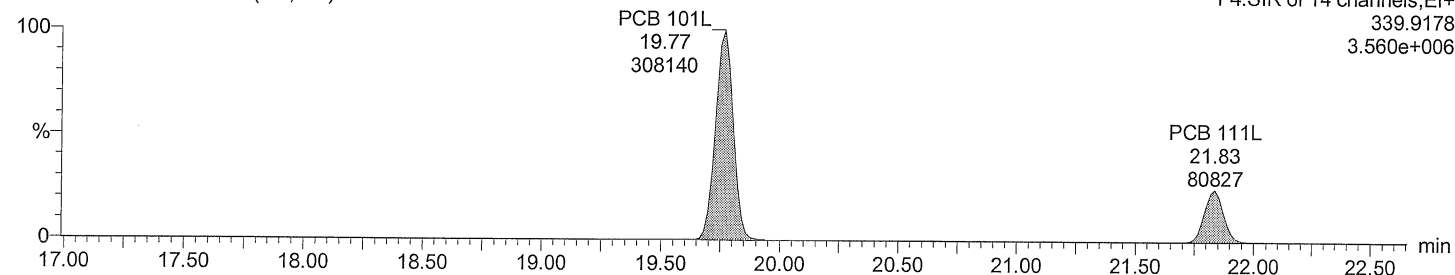
Total PeCB labeled F4

M2160218DS010 Smooth(SG,3x1)



Total PeCB labeled F4

M2160218DS010 Smooth(SG,3x1)



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time

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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

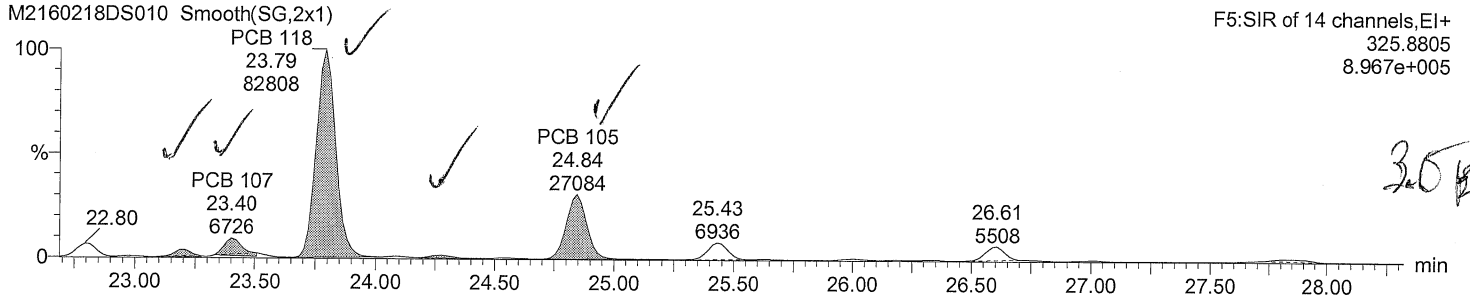
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Vial: 10

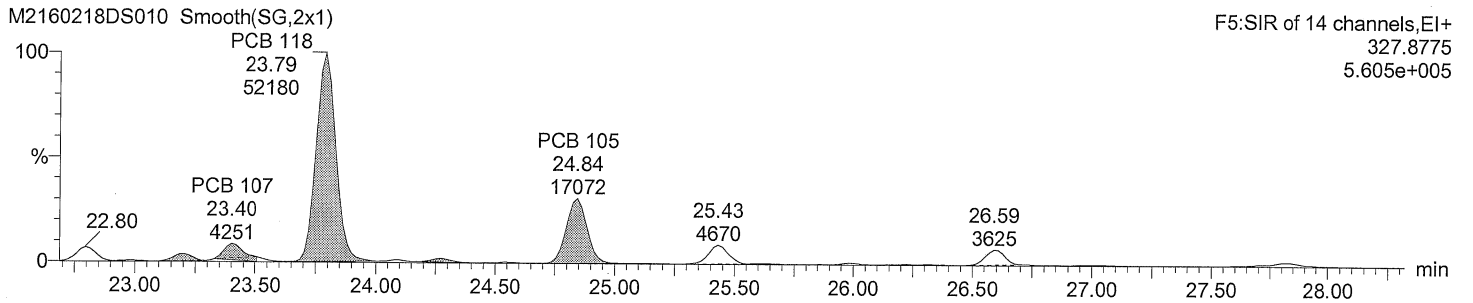
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Time: 01:59:15

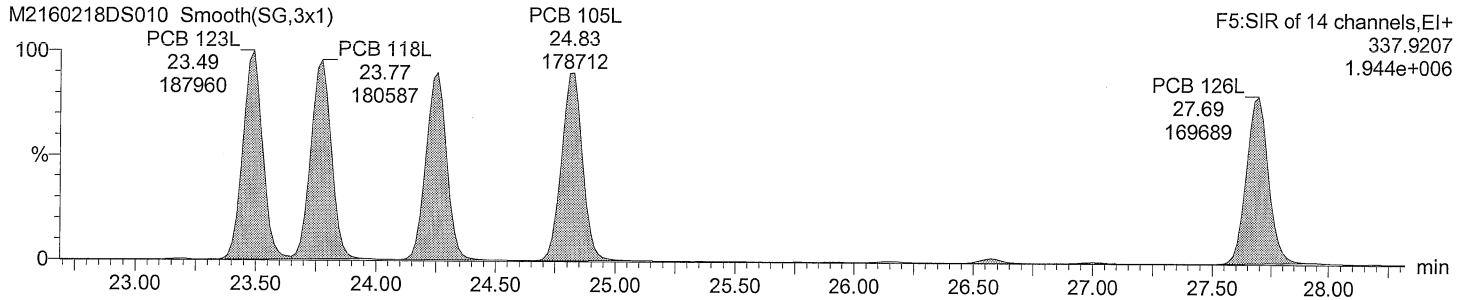
Total PeCB F5



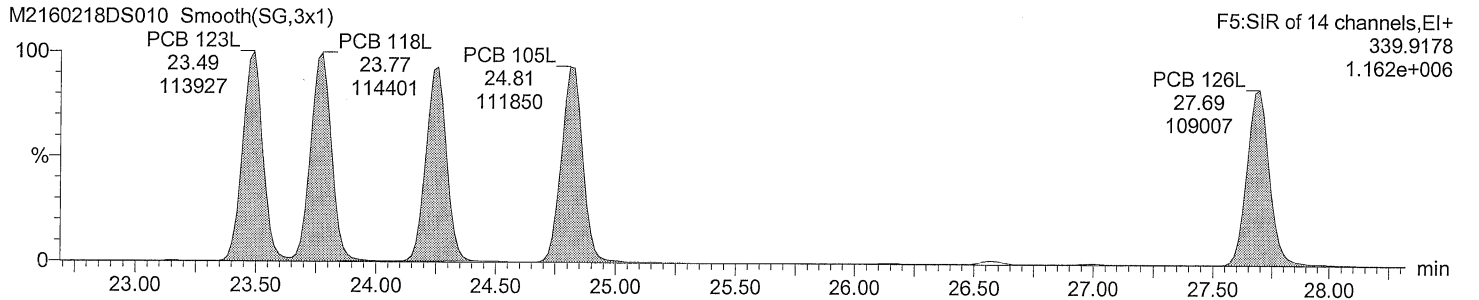
Total PeCB F5



Total PeCB labeled F5



Total PeCB labeled F5



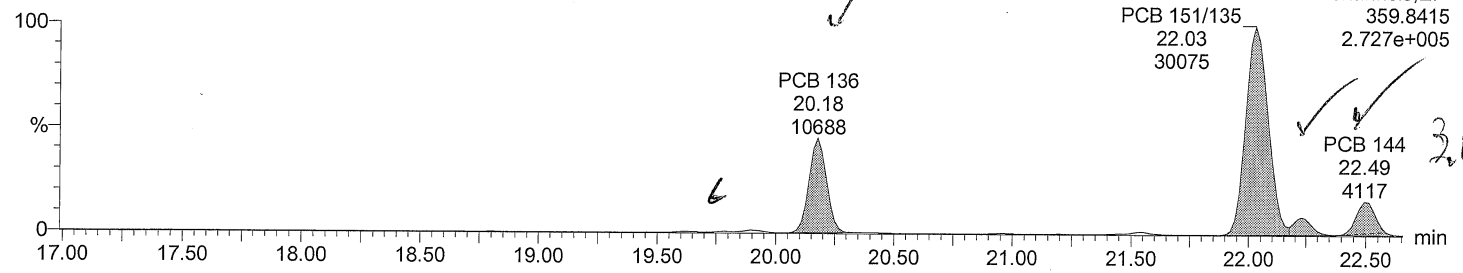
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Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time
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Description: BRP510-01R:D1
Vial: 10
Date: 18-FEB-2016
Time: 01:59:15

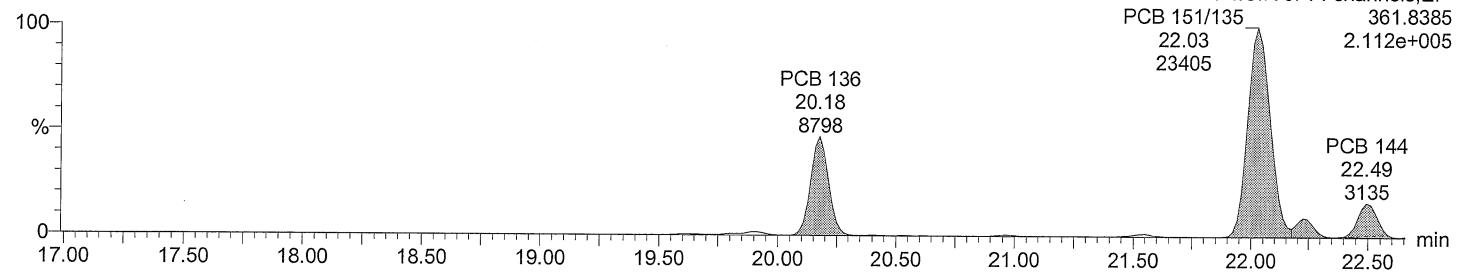
Total HxCB F4

M2160218DS010 Smooth(SG,3x1)



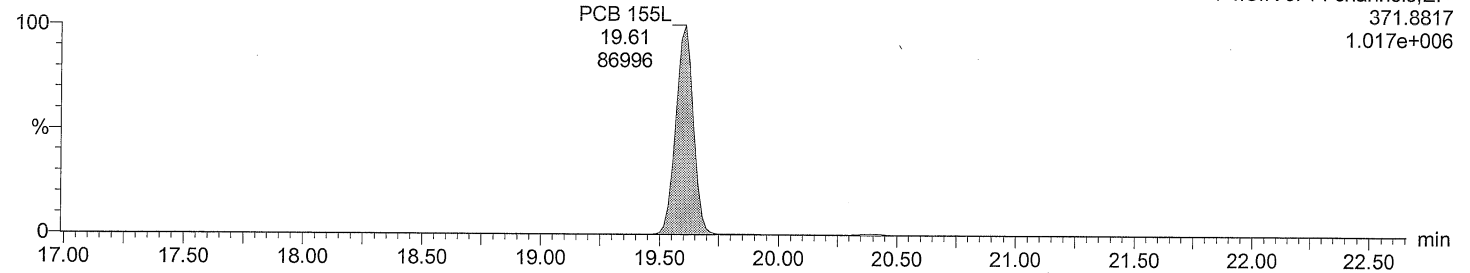
Total HxCB F4

M2160218DS010 Smooth(SG,3x1)



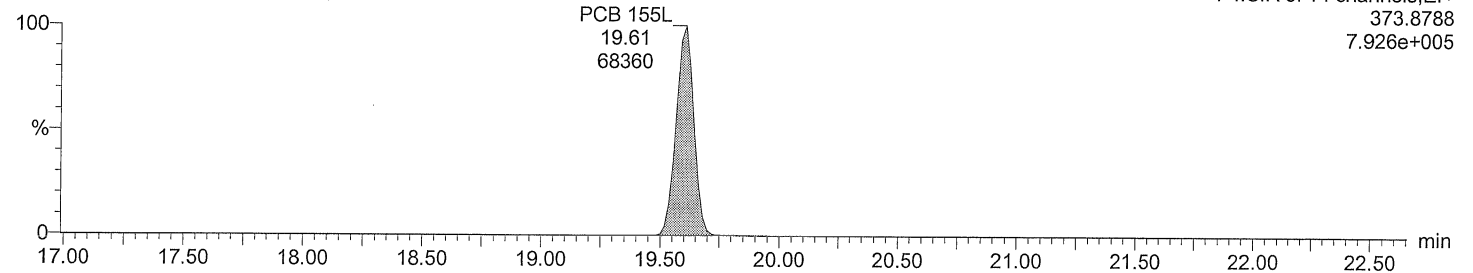
Total HxCB labeled F4

M2160218DS010 Smooth(SG,3x1)



Total HxCB labeled F4

M2160218DS010 Smooth(SG,3x1)



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R:D1

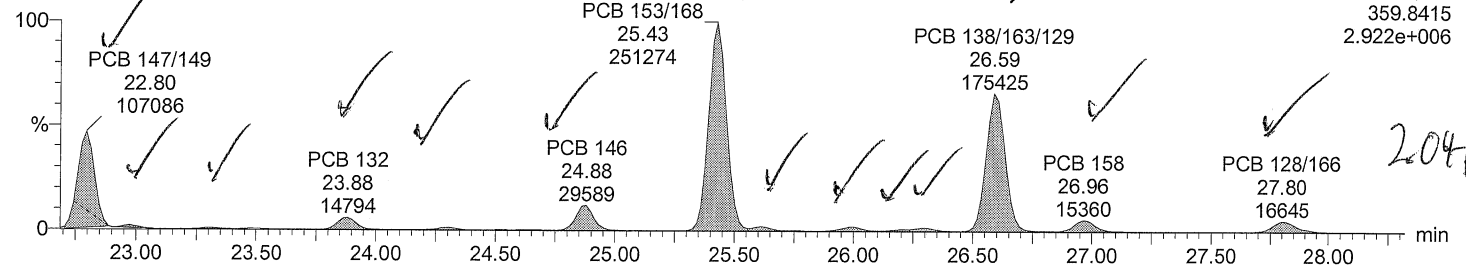
Vial: 10

Date: 18-FEB-2016

Time: 01:59:15

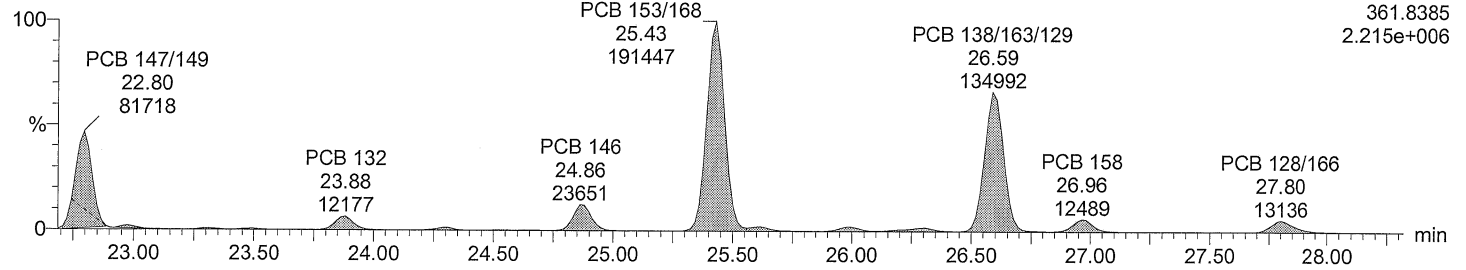
Total HxCB F5

M2160218DS010 Smooth(SG,1x1)



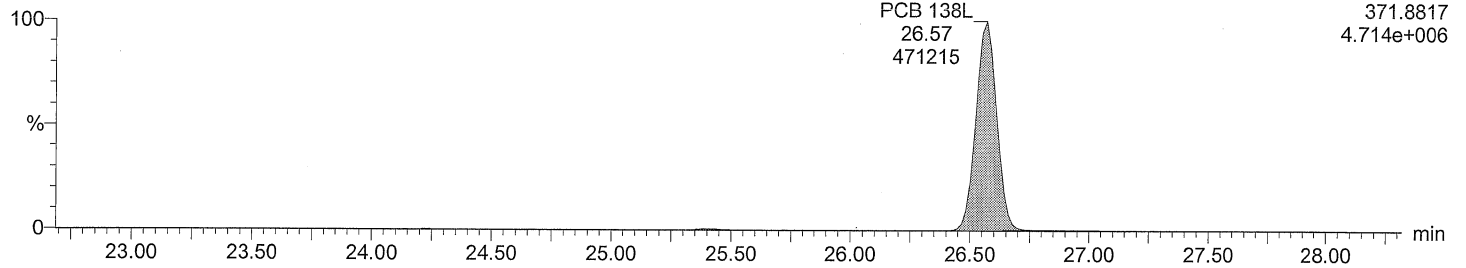
Total HxCB F5

M2160218DS010 Smooth(SG,1x1)



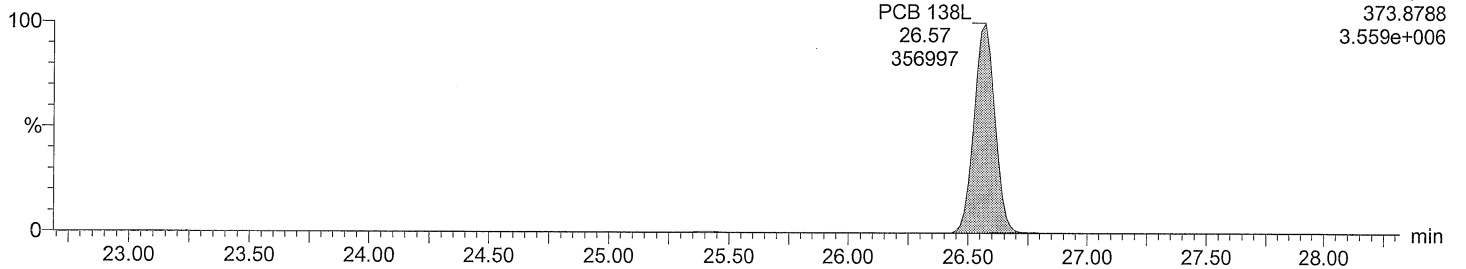
Total HxCB labeled F5

M2160218DS010 Smooth(SG,3x1)



Total HxCB labeled F5

M2160218DS010 Smooth(SG,3x1)



Acquired Date

Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time

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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R:D1

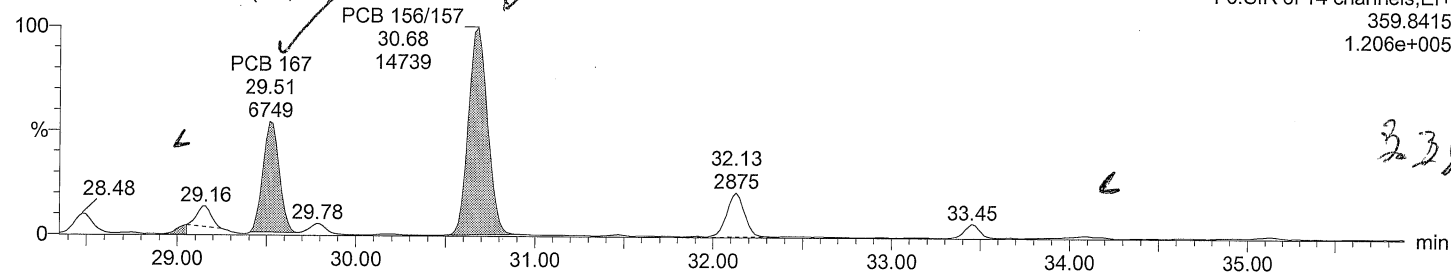
Vial: 10

Date: 18-FEB-2016

Time: 01:59:15

Total HxCB F6

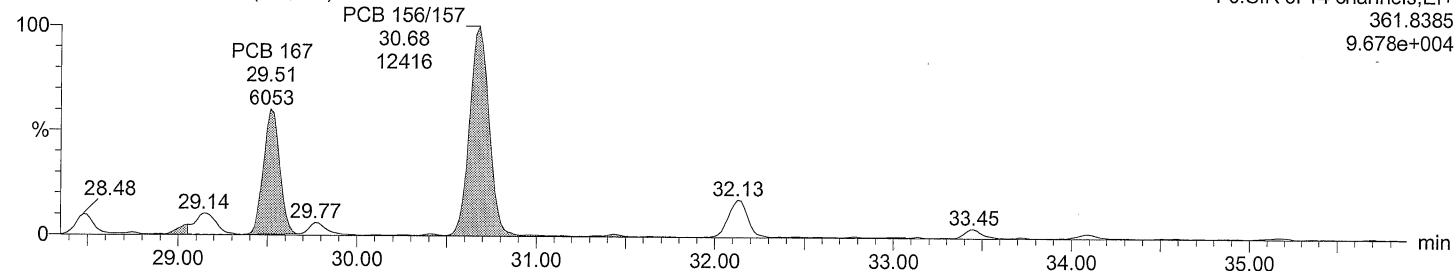
M2160218DS010 Smooth(SG,3x1)



F6:SIR of 14 channels, EI+
359.8415
1.206e+005

Total HxCB F6

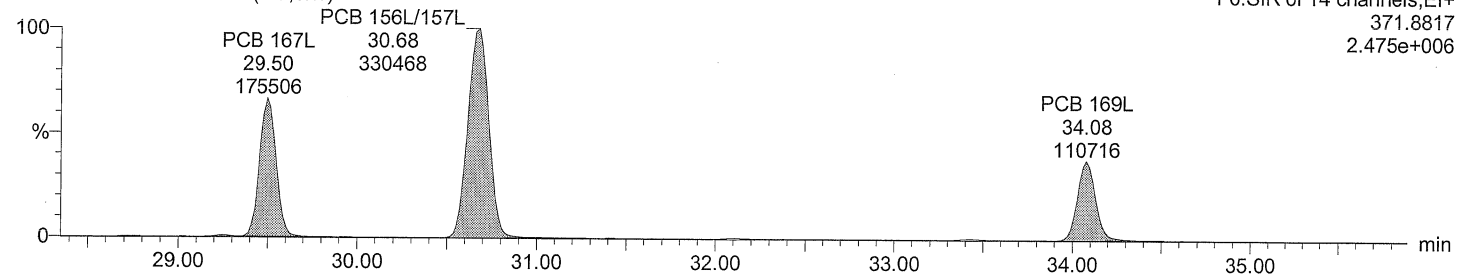
M2160218DS010 Smooth(SG,3x1)



F6:SIR of 14 channels, EI+
361.8385
9.678e+004

Total HxCB labeled F6

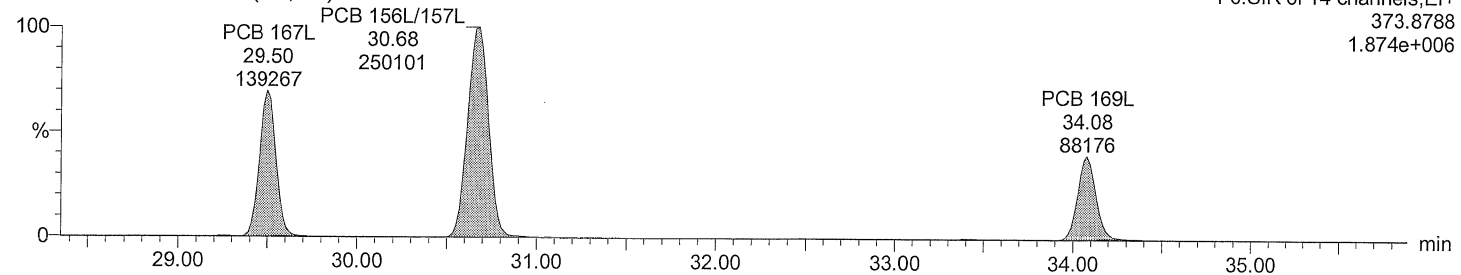
M2160218DS010 Smooth(SG,3x1)



F6:SIR of 14 channels, EI+
371.8817
2.475e+006

Total HxCB labeled F6

M2160218DS010 Smooth(SG,3x1)



F6:SIR of 14 channels, EI+
373.8788
1.874e+006

Acquired Date

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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

Description: BRP510-01R:D1

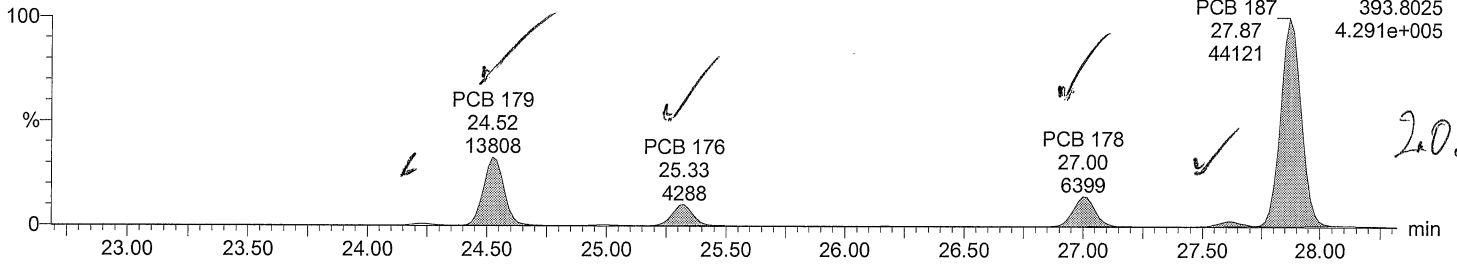
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Date: 18-FEB-2016

Time: 01:59:15

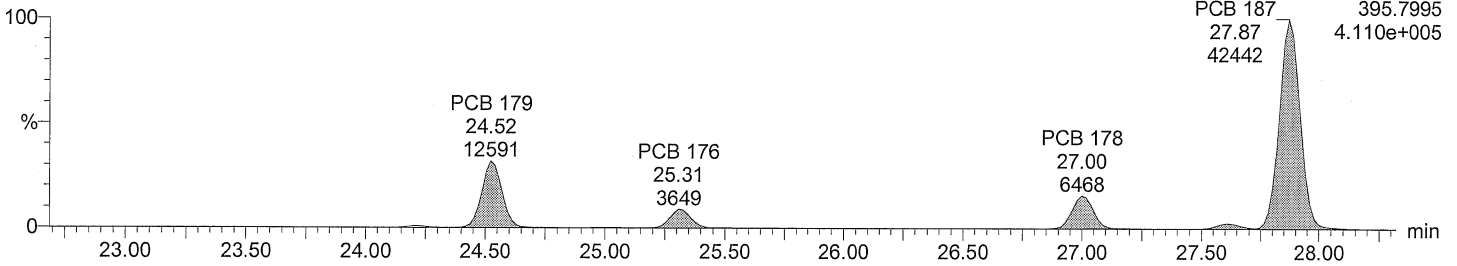
Total HpCB F5

M2160218DS010 Smooth(SG,3x1)



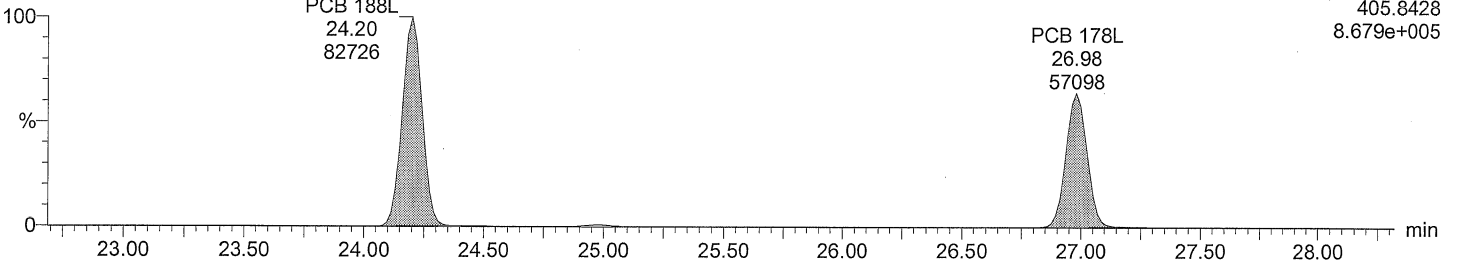
Total HpCB F5

M2160218DS010 Smooth(SG,3x1)



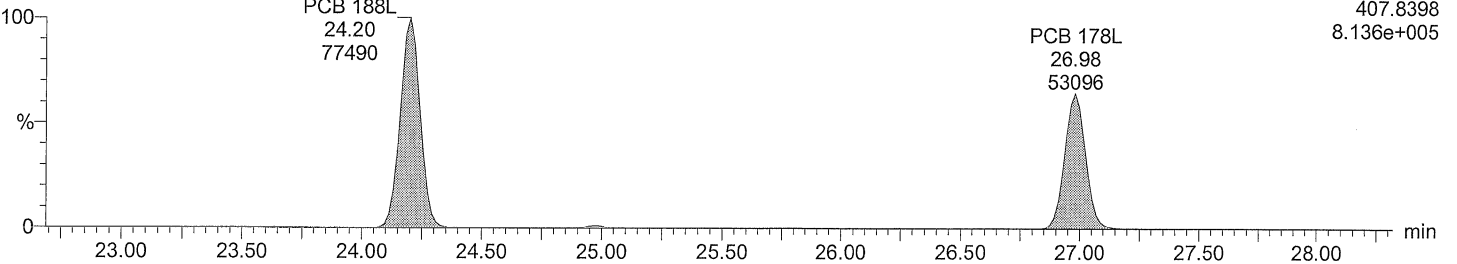
Total HpCB labeled F5

M2160218DS010 Smooth(SG,3x1)



Total HpCB labeled F5

M2160218DS010 Smooth(SG,3x1)



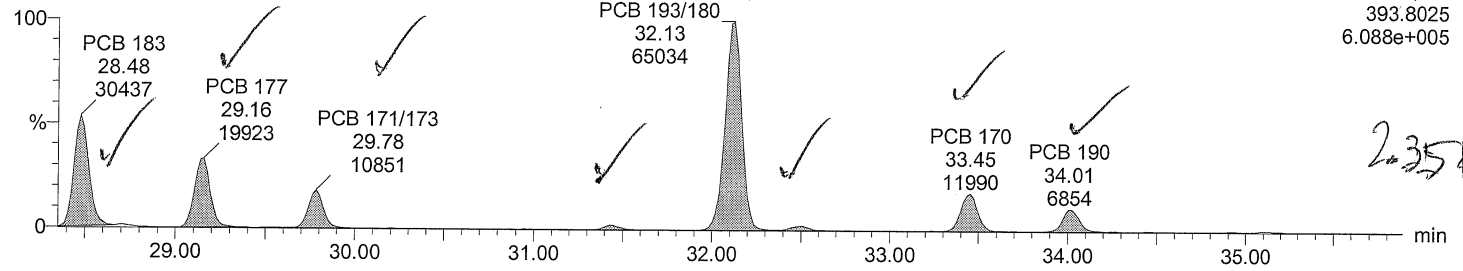
Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

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Description: BRP510-01R:D1
Vial: 10
Date: 18-FEB-2016
Time: 01:59:15

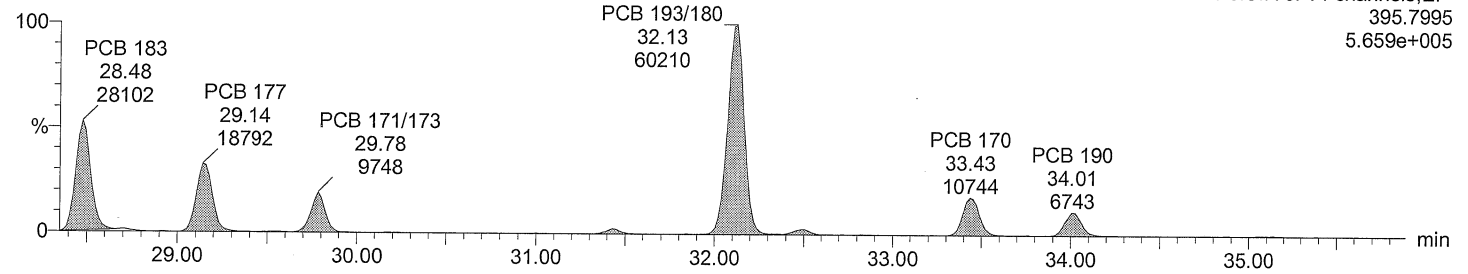
Total HpCB F6

M2160218DS010 Smooth(SG,1x1)



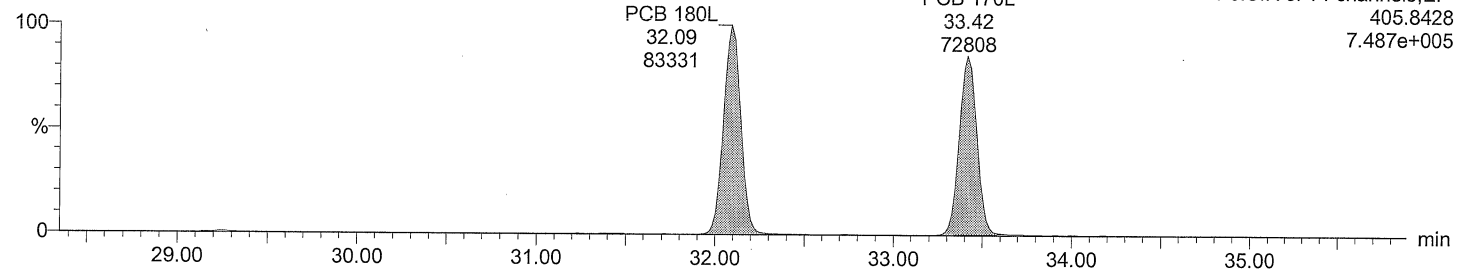
Total HpCB F6

M2160218DS010 Smooth(SG,1x1)



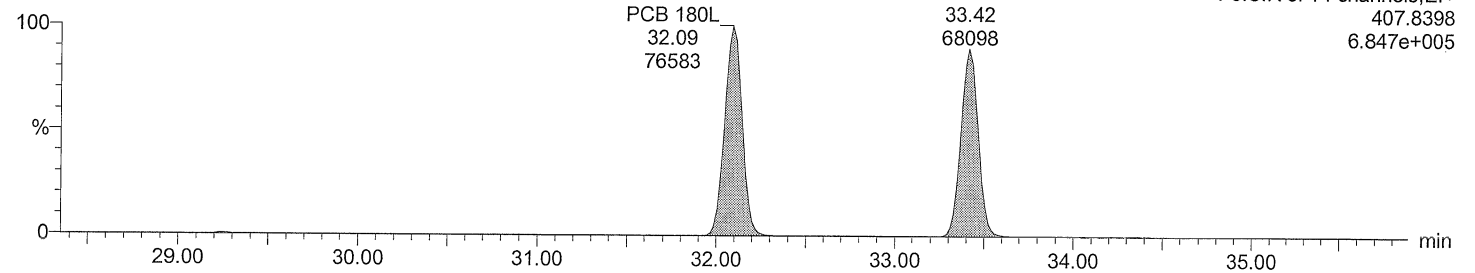
Total HpCB labeled F6

M2160218DS010 Smooth(SG,3x1)



Total HpCB labeled F6

M2160218DS010 Smooth(SG,3x1)



Acquired Date

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Description: BRP510-01R:D1

Vial: 10

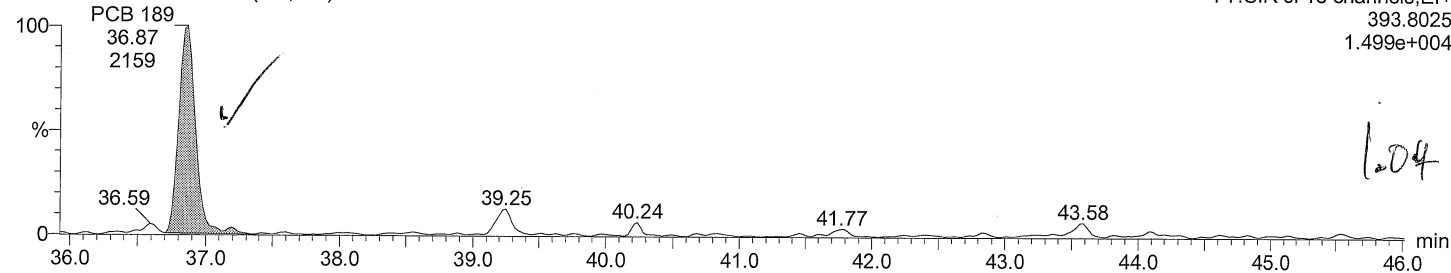
Date: 18-FEB-2016

Time: 01:59:15

Total HpCB F7

M2160218DS010 Smooth(SG,3x1)

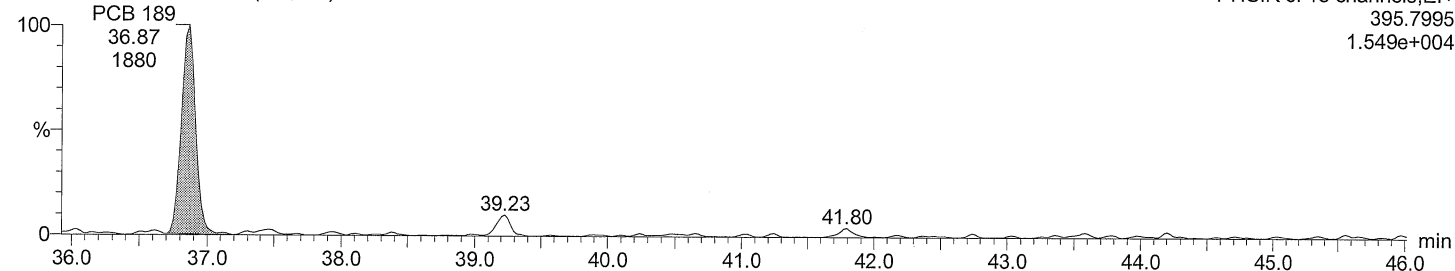
F7:SIR of 18 channels, EI+
393.8025
1.499e+004



Total HpCB F7

M2160218DS010 Smooth(SG,3x1)

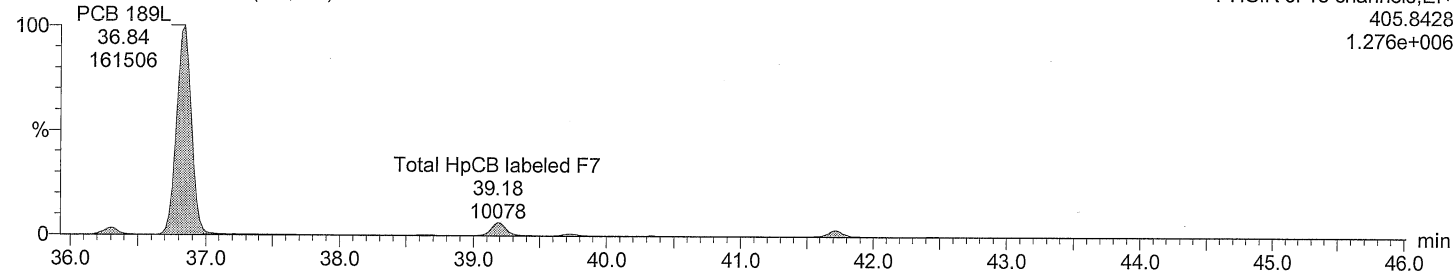
F7:SIR of 18 channels, EI+
395.7995
1.549e+004



Total HpCB labeled F7

M2160218DS010 Smooth(SG,3x1)

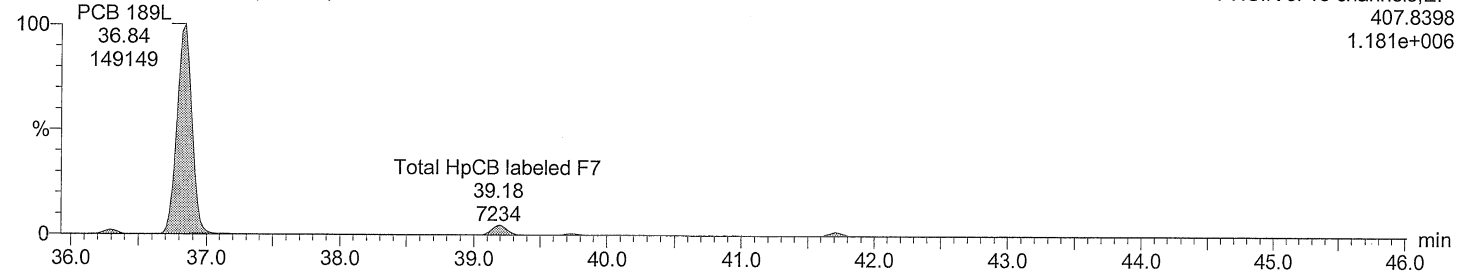
F7:SIR of 18 channels, EI+
405.8428
1.276e+006



Total HpCB labeled F7

M2160218DS010 Smooth(SG,3x1)

F7:SIR of 18 channels, EI+
407.8398
1.181e+006



Acquired Date

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

Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time

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ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

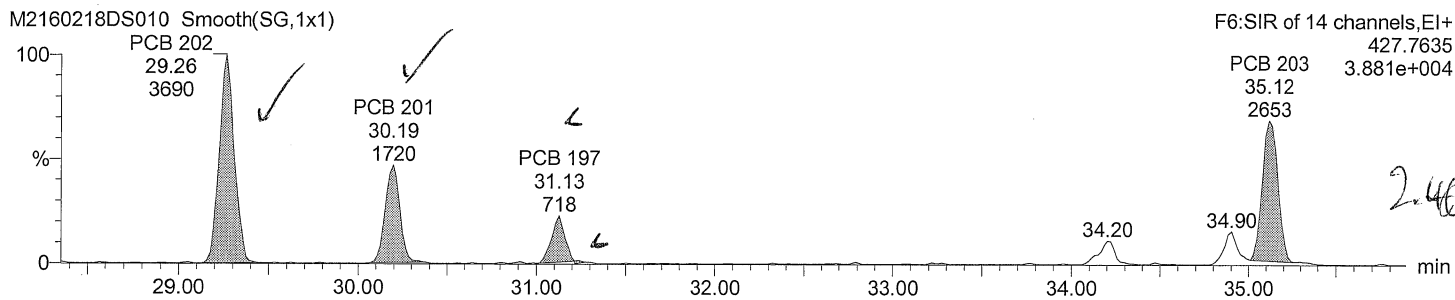
Description: BRP510-01R:D1

Vial: 10

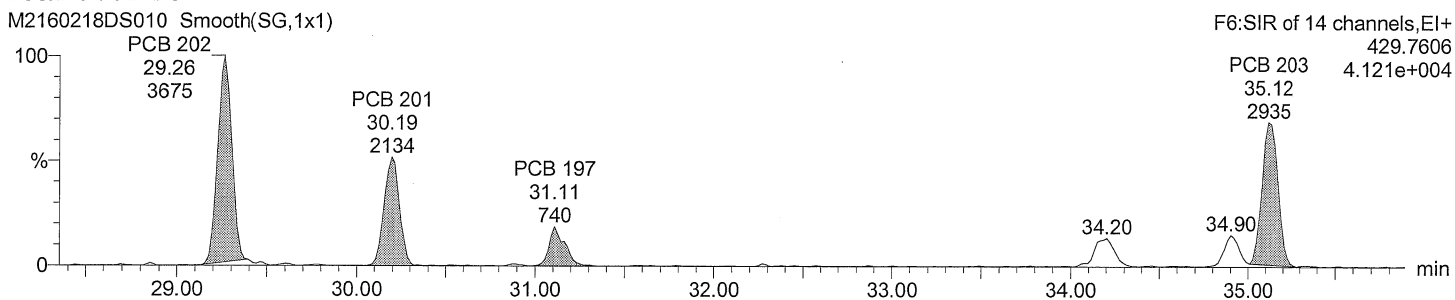
Date: 18-FEB-2016

Time: 01:59:15

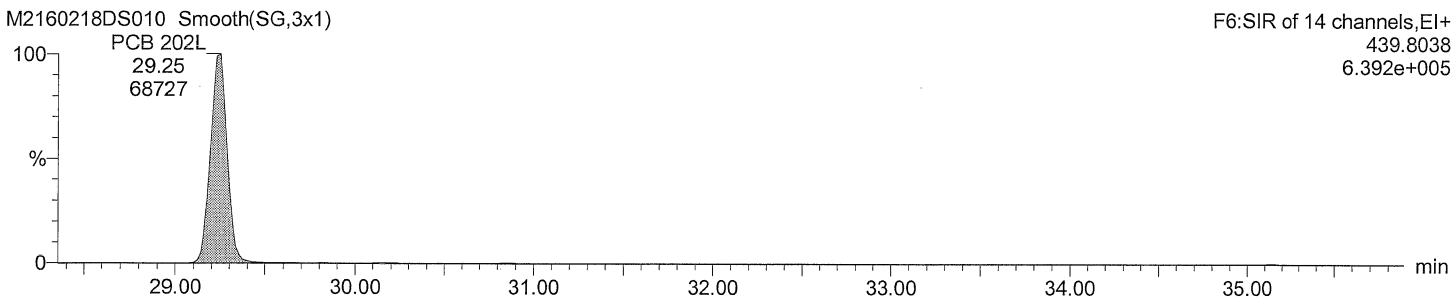
Total OcCB F6



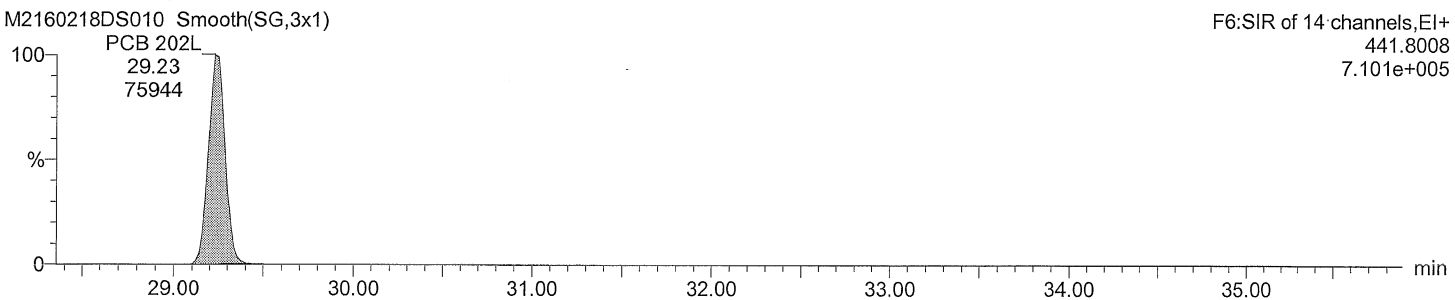
Total OcCB F6



Total OcCB labeled F6



Total OcCB labeled F6



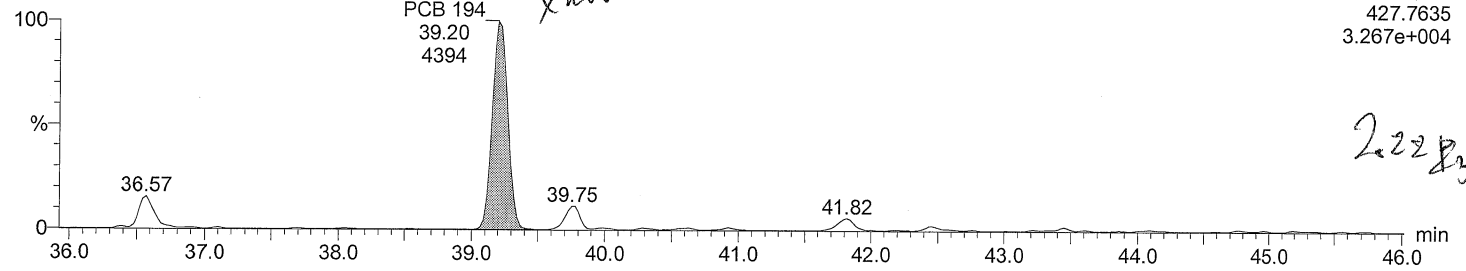
Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

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Description: BRP510-01R:D1
Vial: 10
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Total OcCB F7

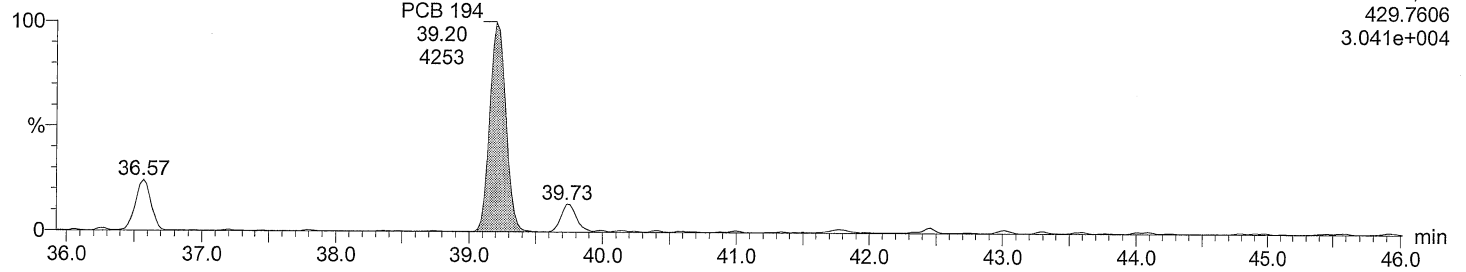
M2160218DS010 Smooth(SG,3x1)



F7:SIR of 18 channels,EI+
427.7635
3.267e+004

Total OcCB F7

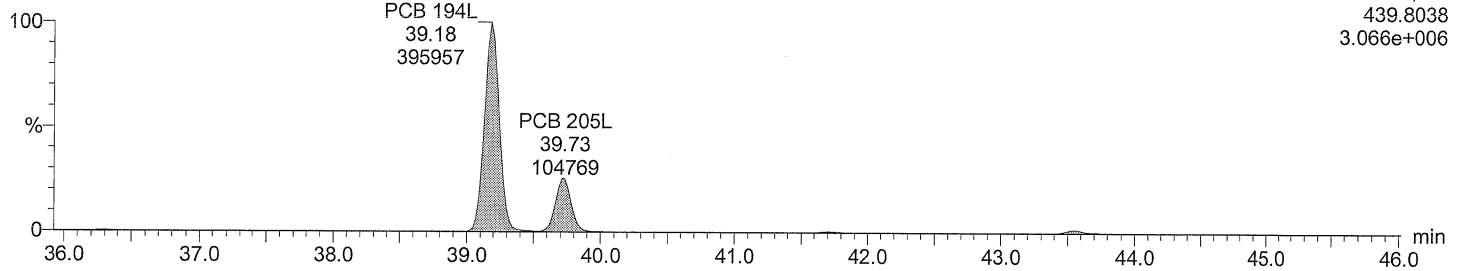
M2160218DS010 Smooth(SG,3x1)



F7:SIR of 18 channels,EI+
429.7606
3.041e+004

Total OcCB labeled F7

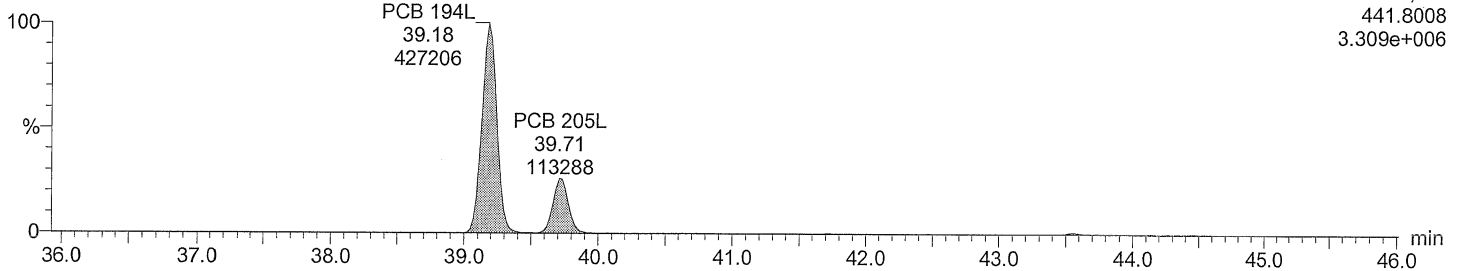
M2160218DS010 Smooth(SG,3x1)



F7:SIR of 18 channels,EI+
439.8038
3.066e+006

Total OcCB labeled F7

M2160218DS010 Smooth(SG,3x1)



F7:SIR of 18 channels,EI+
441.8008
3.309e+006

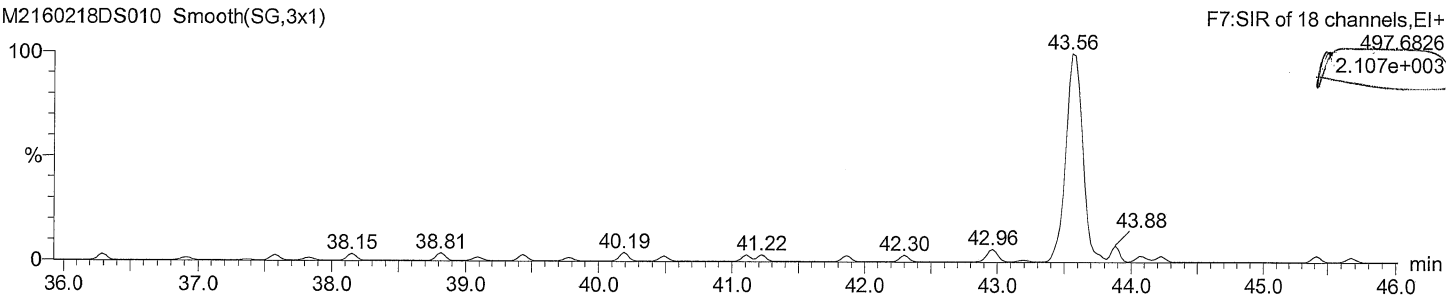
Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time
Printed: February 20, 2016 02:11:48 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
Description: BRP510-01R:D1
Vial: 10
Date: 18-FEB-2016
Time: 01:59:15

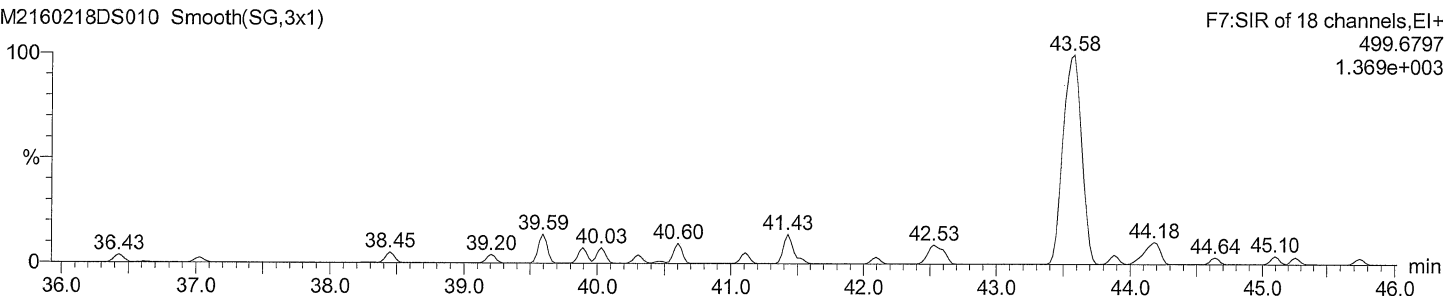
Total DeCB F7

M2160218DS010 Smooth(SG,3x1)



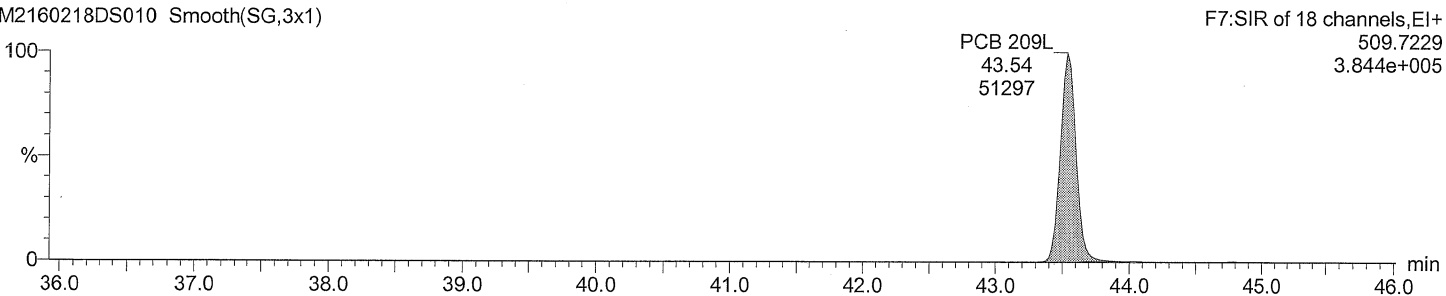
Total DeCB F7

M2160218DS010 Smooth(SG,3x1)



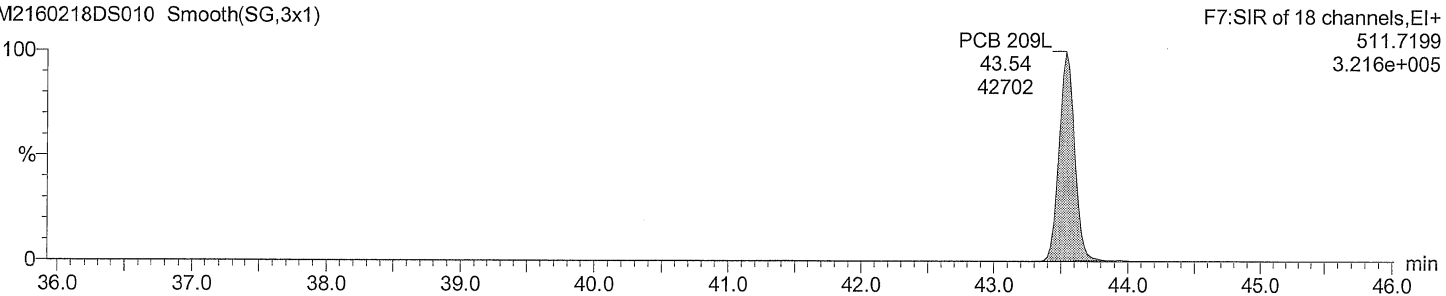
Total DeCB labeled F7

M2160218DS010 Smooth(SG,3x1)



Total DeCB labeled F7

M2160218DS010 Smooth(SG,3x1)

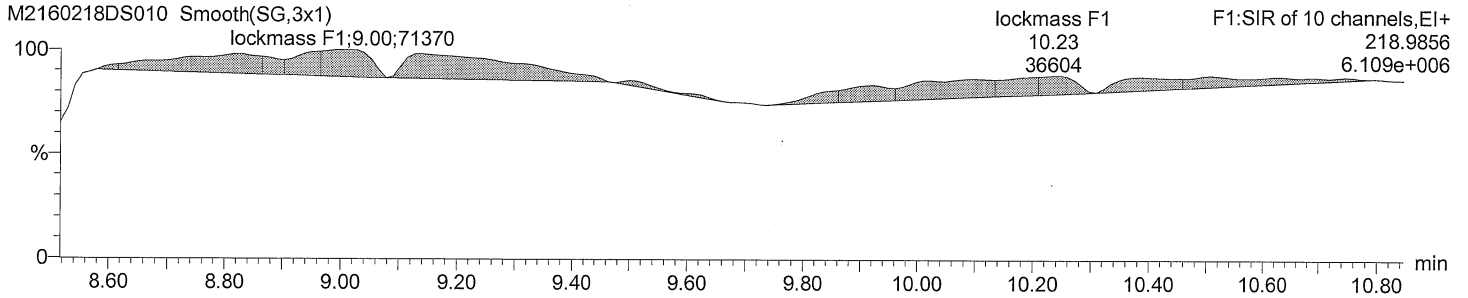


Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

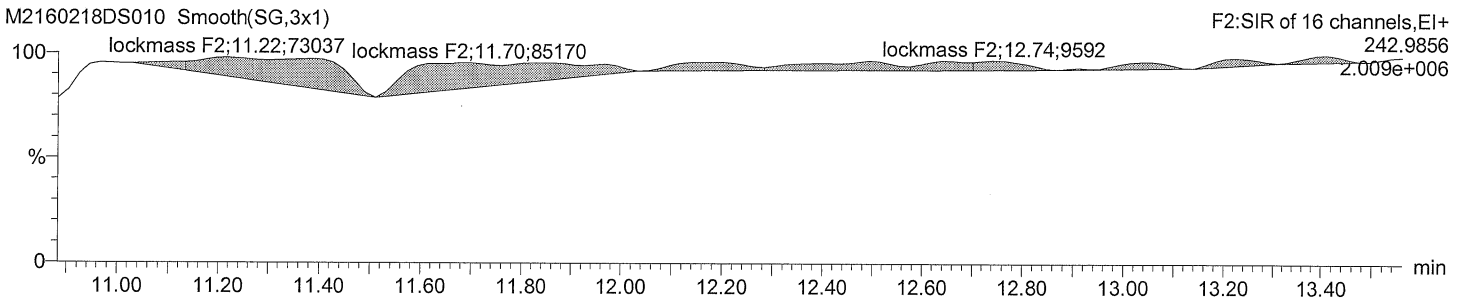
Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time
Printed: February 20, 2016 02:11:48 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
Description: BRP510-01R:D1
Vial: 10
Date: 18-FEB-2016
Time: 01:59:15

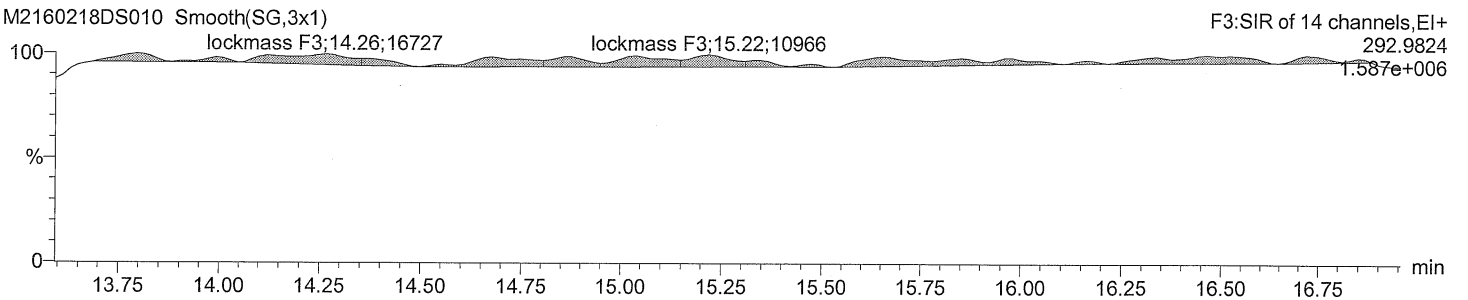
lockmass F1



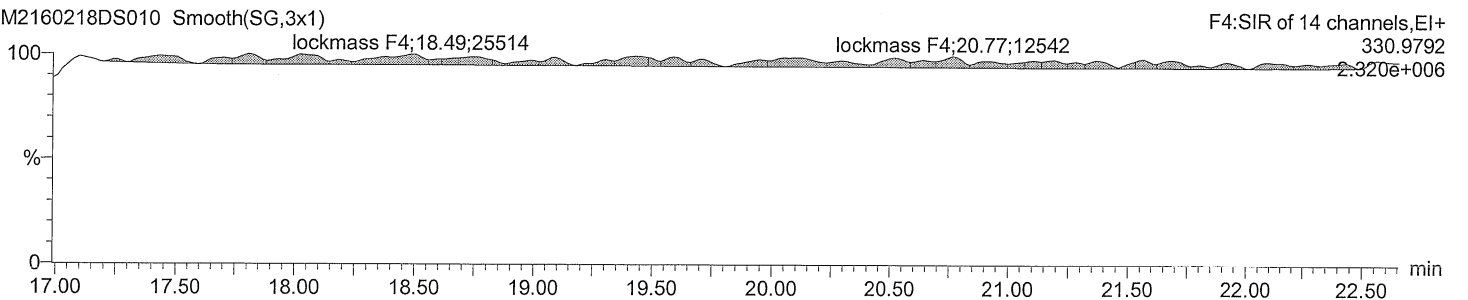
lockmass F2



lockmass F3



lockmass F4

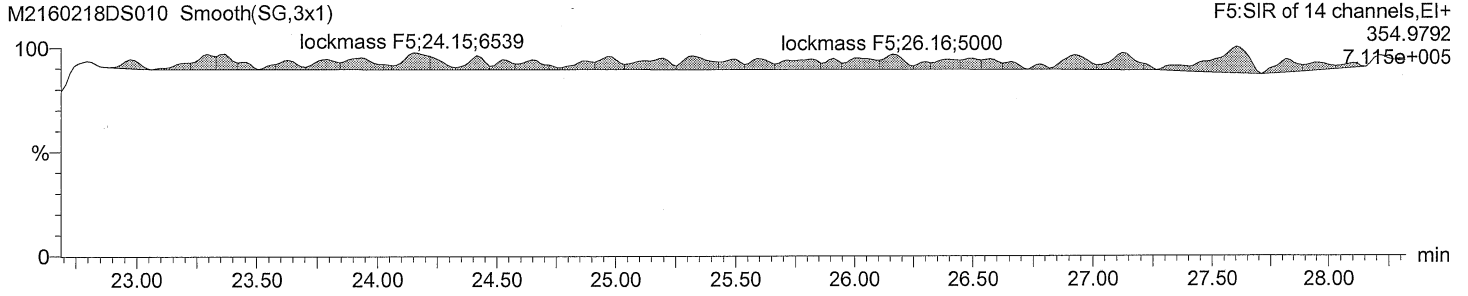


Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

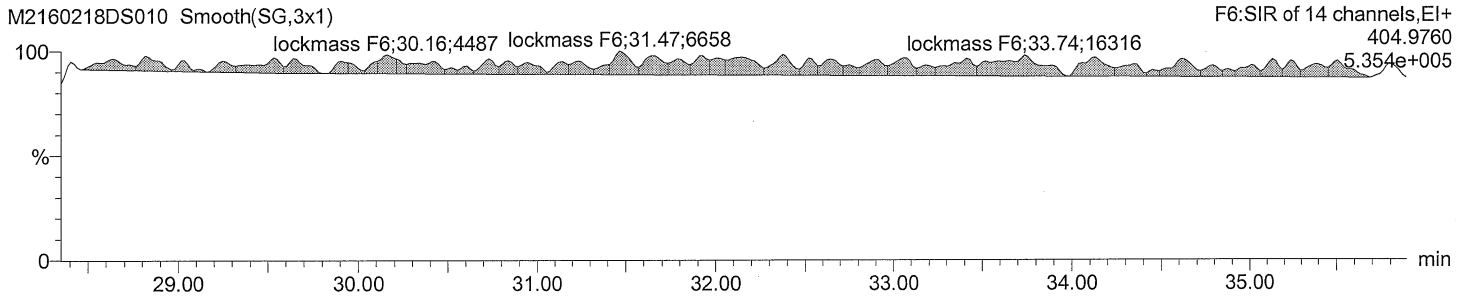
Last Altered: February 20, 2016 02:09:39 PM Eastern Standard Time
Printed: February 20, 2016 02:11:48 PM Eastern Standard Time

ID: Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
Description: BRP510-01R:D1
Vial: 10
Date: 18-FEB-2016
Time: 01:59:15

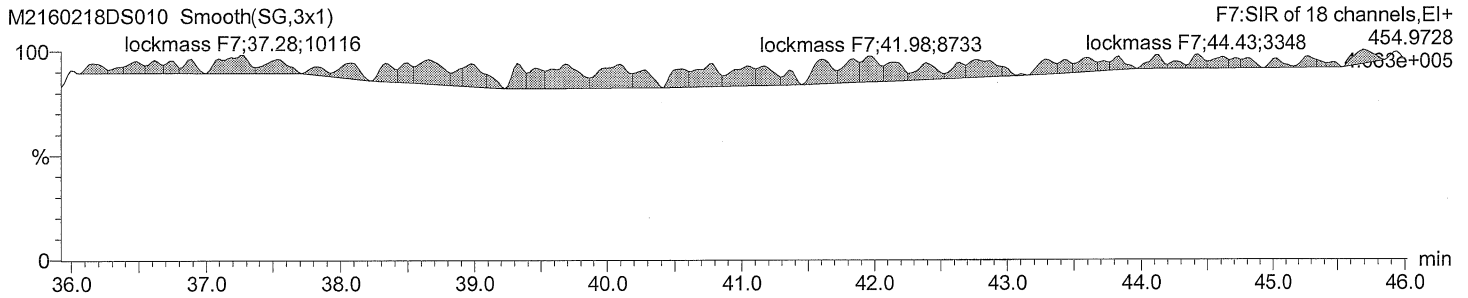
lockmass F5



lockmass F6



lockmass F7



Before
18.02.20
AA.

M2160218DS010 Smooth(SG,3x1)

BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 67;17.95;2288.42;0.83 7.79%



PCB 63;18.13;2213.53;0.72 -7.03%

M2160218DS010 Smooth(SG,3x1)

BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 67;17.95;2757.13



PCB 63
18.13
3092.08

M2160218DS010 Smooth(SG,3x1)

BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



FEB 23 2016

de

M2160218DS010 Smooth(SG,3x1)

BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

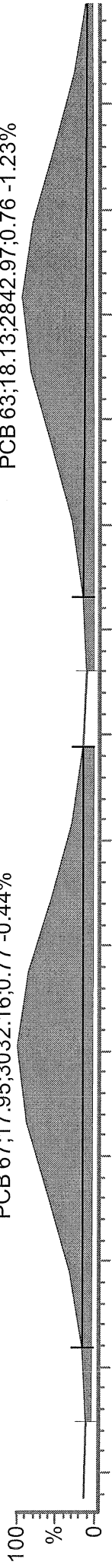


M3 16/02/20 : AH

M2160218DS010 Smooth(SG,3x1)

BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

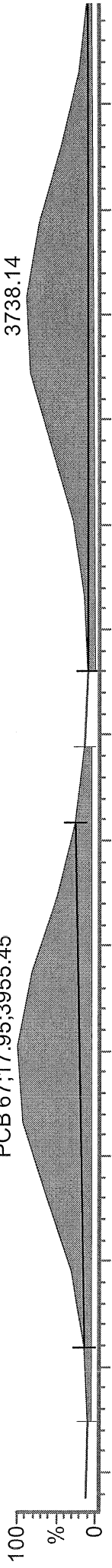
PCB 67;17.95;3032.16;0.77 -0.44%



M2160218DS010 Smooth(SG,3x1)

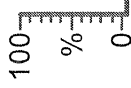
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 67;17.95;3955.45



M2160218DS010 Smooth(SG,3x1)

BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



PCB 63

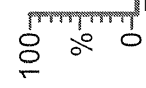
18.13

3738.14

FEB 23 2016

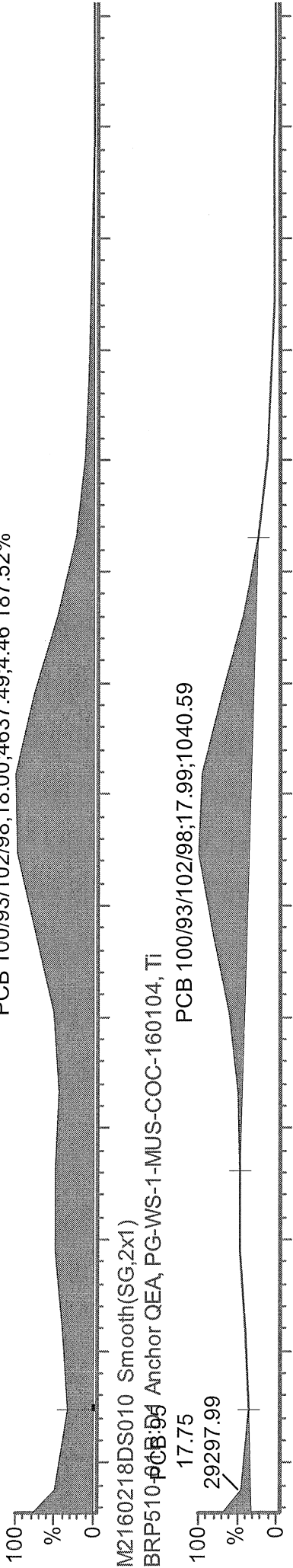
M2160218DS010 Smooth(SG,3x1)

BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

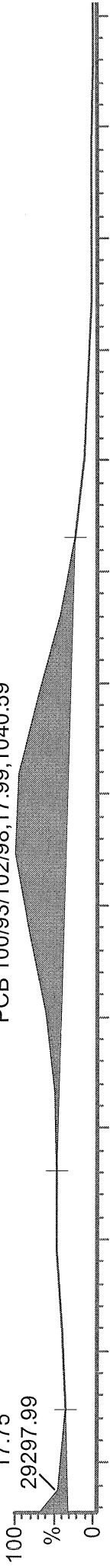


Before
18.02.20
Att.

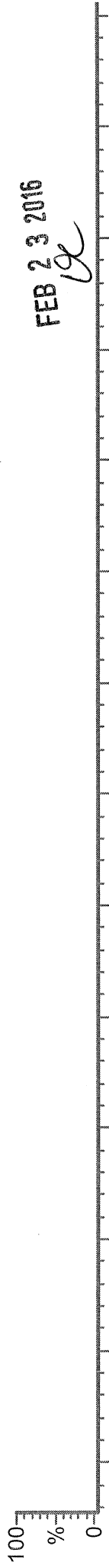
M2160218DS010 Smooth(SG,2x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
PCB 100/93/102/98;18.00;4637.49;4.46 187.52%



M2160218DS010 Smooth(SG,2x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti
PCB 100/93/102/98;17.99;1040.59

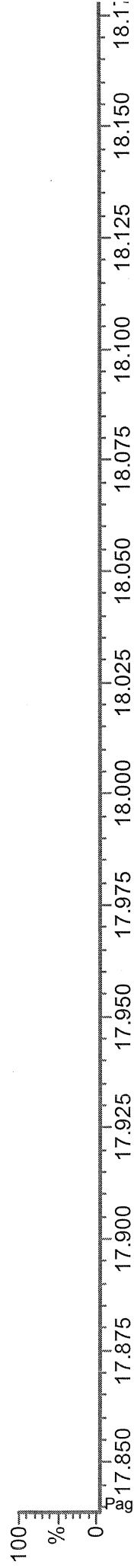


M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



FEB 23 2016
ga

M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



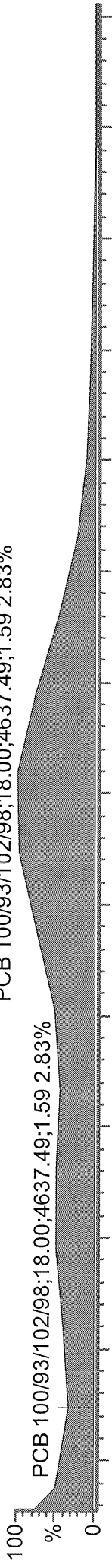
M3 16/02/20 : AH

Maxxam Analytic

M2160218DS010 Smooth(SG,2x1)

BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

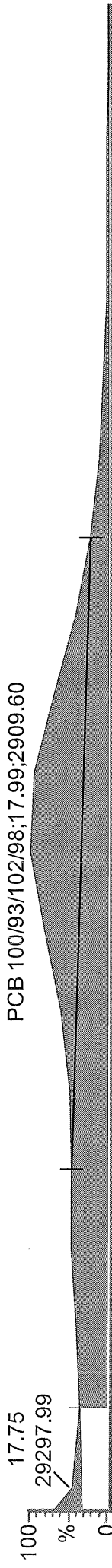
PCB 100/93/102/98;18.00;4637.49;1.59 2.83%



M2160218DS010 Smooth(SG,2x1)

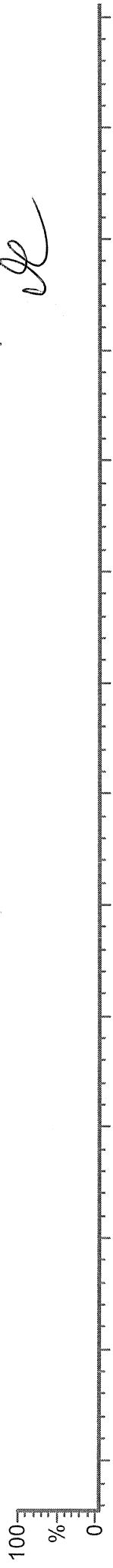
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 100/93/102/98;17.99;2909.60



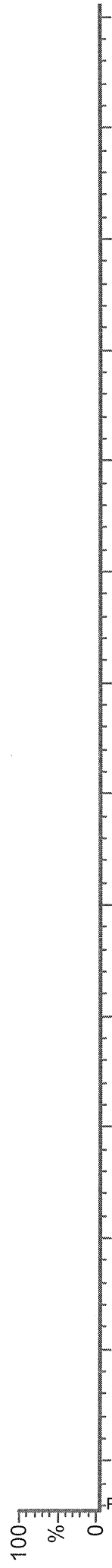
M2160218DS010 Smooth(SG,3x1)

BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS010 Smooth(SG,3x1)

BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

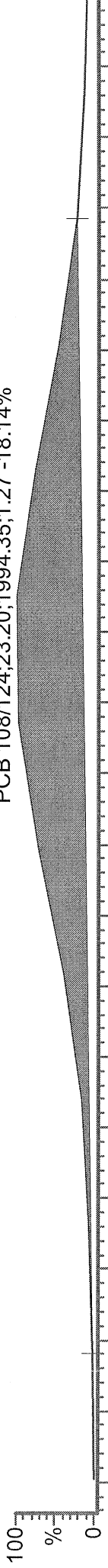


FEB 23 2016

Before
16.02.20
AM

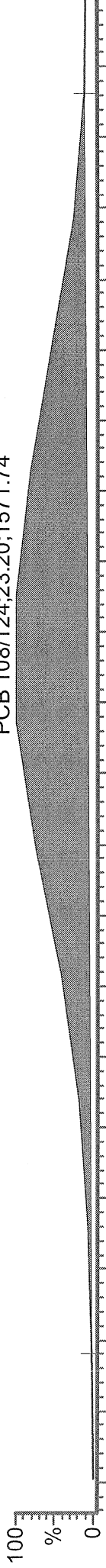
M2160218DS010 Smooth(SG,2x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 108/124;23.20;1994.35;1.27 -18.14%



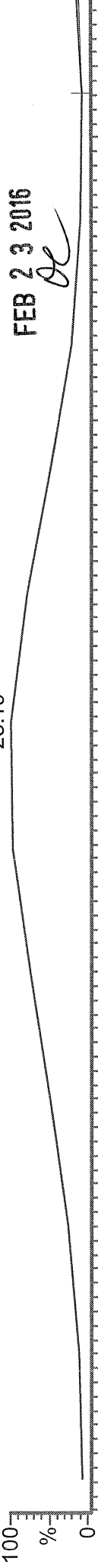
M2160218DS010 Smooth(SG,2x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 108/124;23.20;1571.74



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

23.19

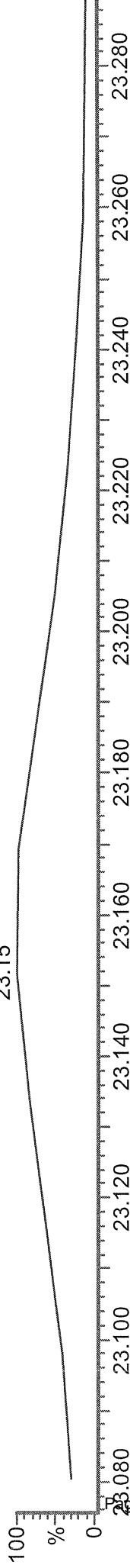


FEB 23 2016

OC

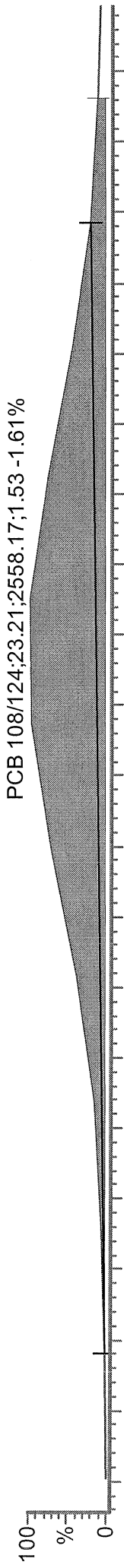
M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

23.15

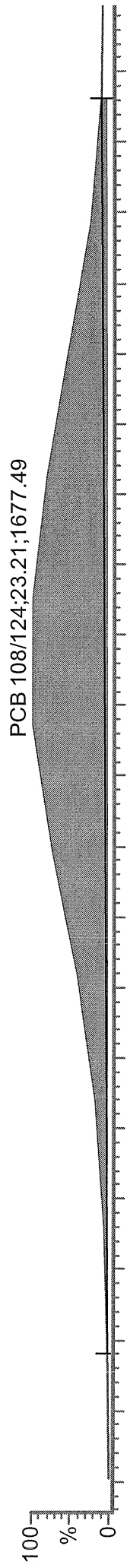


M3 16/02/20 : AH

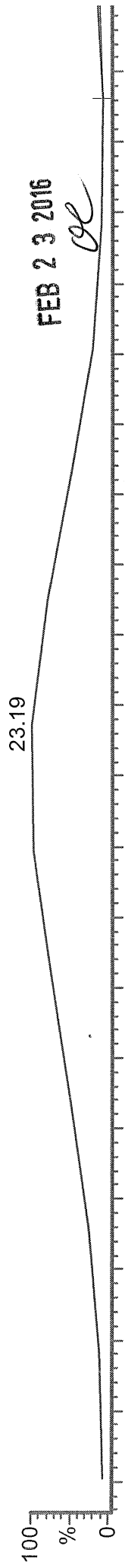
M2160218DS010 Smooth(SG,2x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



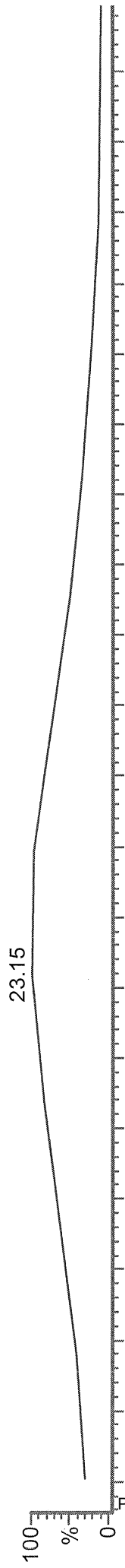
M2160218DS010 Smooth(SG,2x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



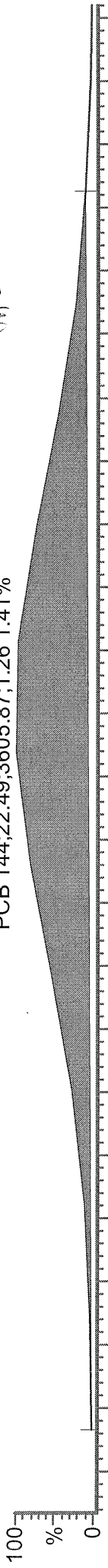
M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



Befen
15.02.20
AH -

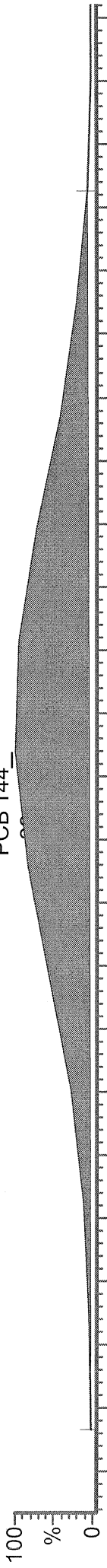
M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 144;22.49;3605.87;1.26 1.41%



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 144



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

22.46

FEB 23 2016

22.58



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

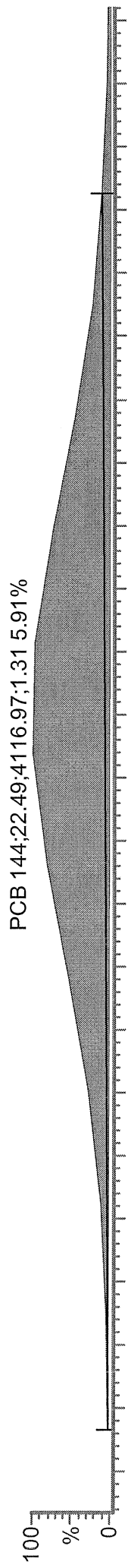
22.51



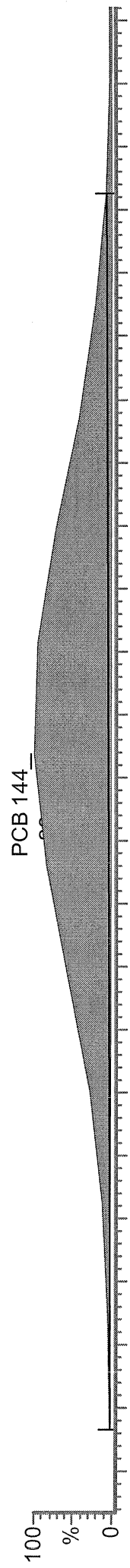
22.39

M3 16/02/20 : AH

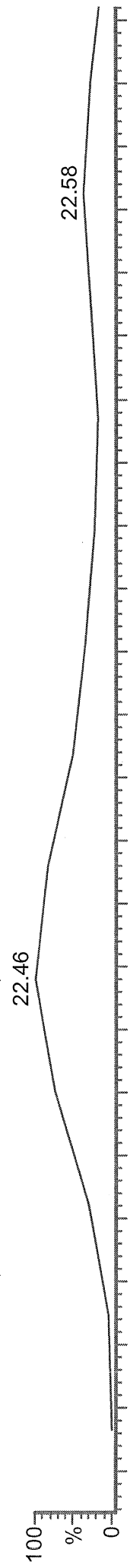
M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



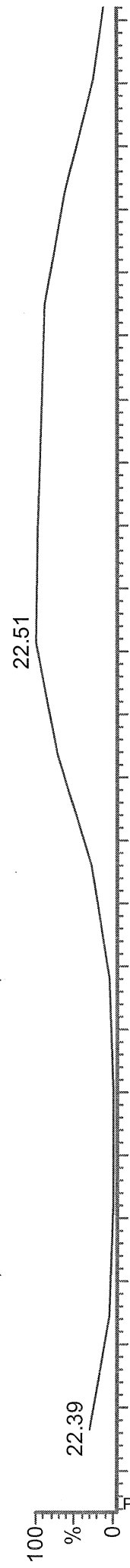
M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

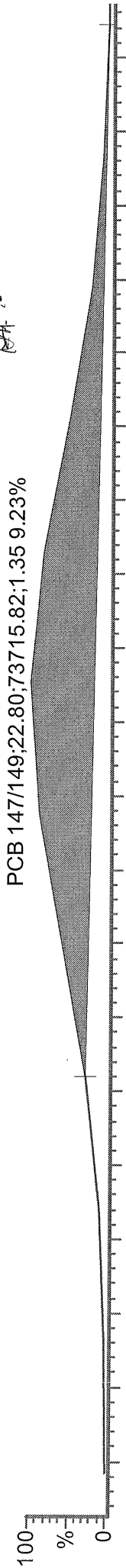


FEB 23 2016

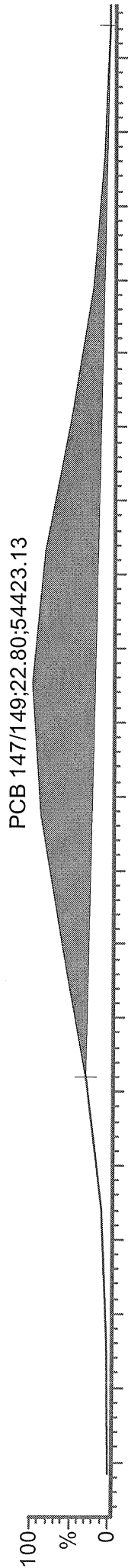
AL

Before
6.02.20
AA

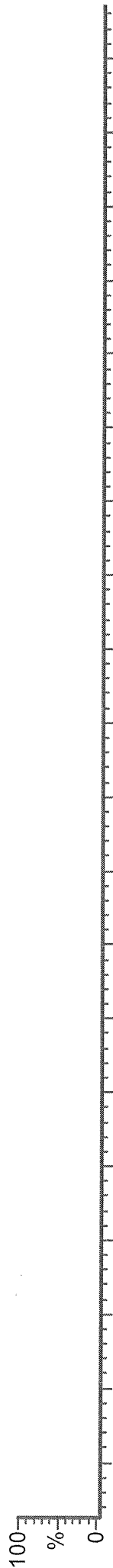
M2160218DS010 Smooth(SG,1x1)
BRP510-01R:D1 Anchor QEA PG-WS-1-MUS-COC-160104, Ti



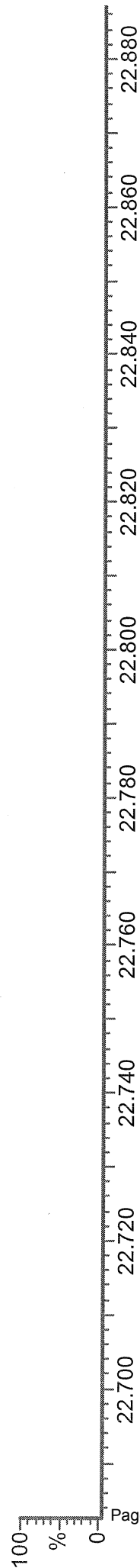
M2160218DS010 Smooth(SG,1x1)
BRP510-01R:D1 Anchor QEA PG-WS-1-MUS-COC-160104, Ti



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA PG-WS-1-MUS-COC-160104, Ti



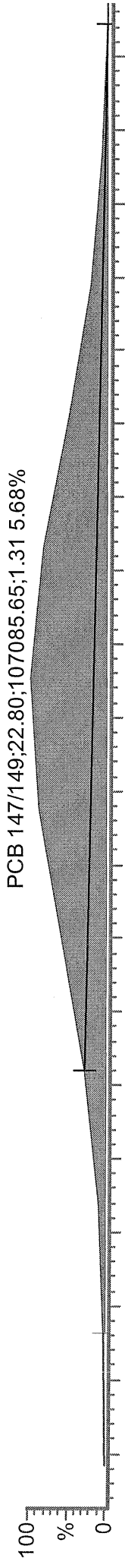
M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA PG-WS-1-MUS-COC-160104, Ti



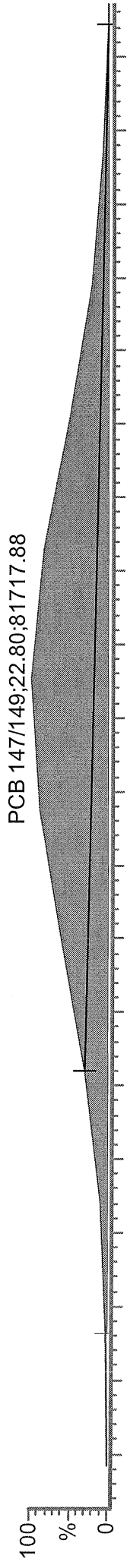
FEB 23 2016

M3 16/02/20 : AH

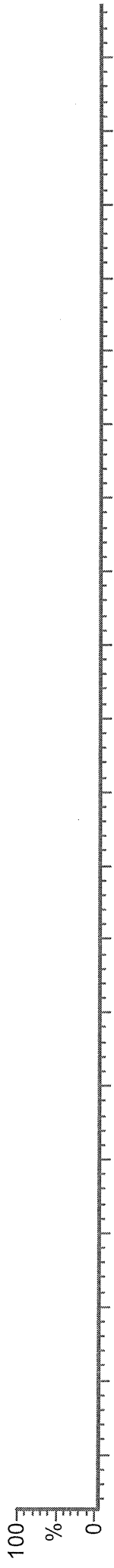
M2160218DS010 Smooth(SG,1x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



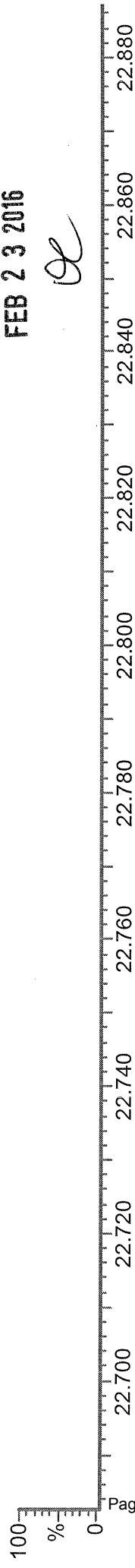
M2160218DS010 Smooth(SG,1x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



FEB 23 2016

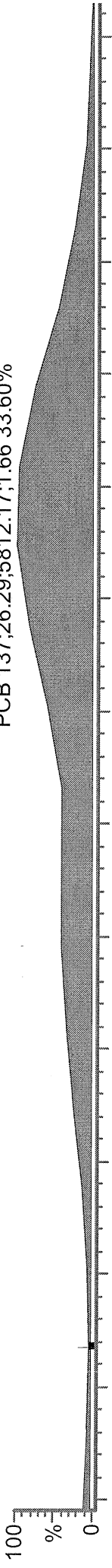
A handwritten signature or set of initials, possibly 'R', is located below the date.

Before

*Feb 2-20
AA--*

M2160218DS010 Smooth(SG,1x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

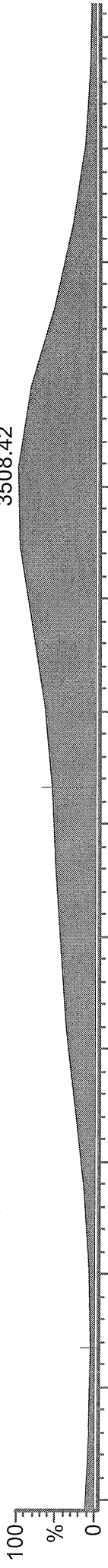
PCB 137;26.29;5812.17;1.66 33.60%



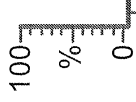
PCB 137
26.30
3508.42

M2160218DS010 Smooth(SG,1x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

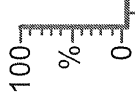
3508.42



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



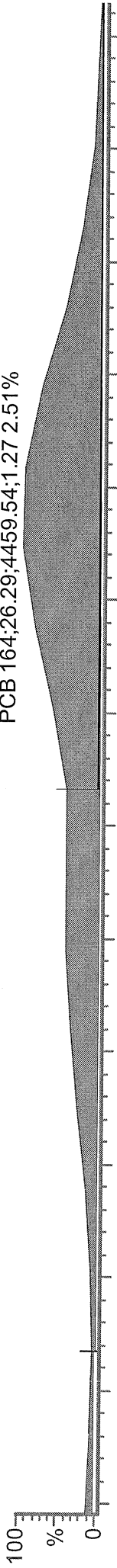
FEB 23 2016

ge

M2 16/02/20 : AH

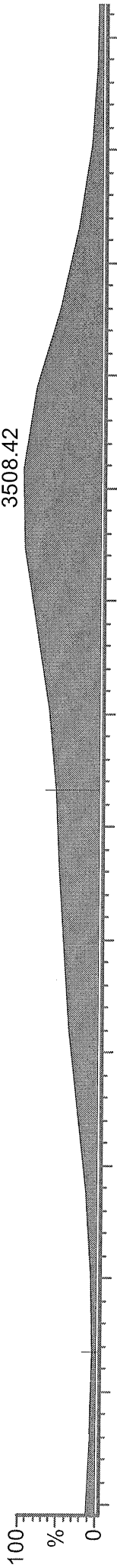
M2160218DS010 Smooth(SG,1x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 164;26.29;4459.54;1.27 2.51%

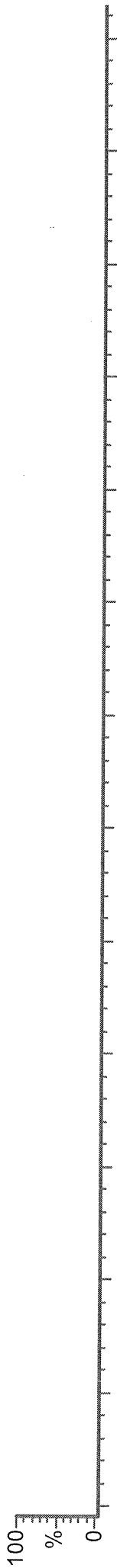


M2160218DS010 Smooth(SG,1x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

PCB 164
26.30
3508.42

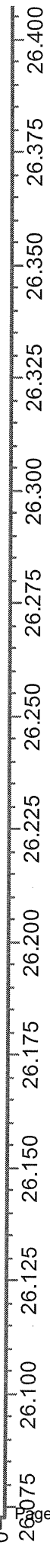


M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti



M2160218DS010 Smooth(SG,3x1)
BRP510-01R:D1 Anchor QEA, PG-WS-1-MUS-COC-160104, Ti

FEB 23 2016



Sample ID **BRP511-01R**
 Comments
 Instrument File Ultima 3
 Sample Size 10.019 Dil Fac 1.00

Name	mass	RT	Area	ratio	Tot Area	ng	Code	Isomers	DL	S/N	Mod	rf	Rec
1 PCB 1	188	NotFnd	*	*	*	-0.00073			-0.00073	*	no	1.082	-
	MoCB 190	8.98	*	no					*				
2 PCB 2	188	NotFnd	*	*	*	-0.00066			-0.00066	*	no	1.2	-
	MoCB 190	10.10	*	no					*				
3 PCB 3	188	NotFnd	*	*	*	-0.00073			-0.00073	*	no	1.079	-
	MoCB 190	10.19	*	no					*				
4 PCB 4	222	NotFnd	*	*	*	-0.00238			-0.00238	*	no	0.954	-
	DiCB 224	10.29	*	no					*				
5 PCB 10	222	NotFnd	*	*	*	-0.00185			-0.00185	*	no	1.229	-
	DiCB 224	10.37	*	no					*				
6 PCB 9	222	NotFnd	*	*	*	-0.00288			-0.00288	*	no	1.311	-
	DiCB 224	11.18	*	no					*				
7 PCB 7	222	NotFnd	*	*	*	-0.00324			-0.00324	*	no	1.165	-
	DiCB 224	11.26	*	no					*				
8 PCB 6	222	NotFnd	*	*	*	-0.00286			-0.00286	*	no	1.319	-
	DiCB 224	11.34	*	no					*				
9 PCB 5	222	NotFnd	*	*	*	-0.00383			-0.00383	*	no	0.983	-
	DiCB 224	11.50	*	no					*				
10 PCB 8	222	11.55	-5925	1.56	-9723.08	-0.00692	PCB 8 NDR		-0.00259	127	xL	1.456	-
	DiCB 224	11.55	-3798.08	OK						7			
11 PCB 14	222	NotFnd	*	*	*	-0.00283			-0.00283	*	no	1.332	-
	DiCB 224	12.26	*	no					*				
12 PCB 11	222	12.66	5076	1.45	8589	0.006935			-0.00293	75	no	1.285	-
	DiCB 224	12.66	3513	yes						4			
13 PCB 13/12	222	NotFnd	*	*	*	-0.00312			-0.00312	*	no	1.21	-
	DiCB 224	12.81	*	no					*				
14 PCB 15	222	12.95	17221	1.53	28483	0.022437			-0.00433	269	no	0.871	-
	DiCB 224	12.96	11262	yes						12			
15 PCB 19	256	11.68	1013	0.89	2148	0.004438			-0.00164	14	no	0.899	-
	TriCB 258	11.70	1135	yes						16			
16 PCB 30/18	256	12.49	13565	1.09	25987	0.030271			-0.00181	180	no	0.813	-
	TriCB 258	12.48	12422	yes						173			
17 PCB 17	256	12.68	2916	1.09	5599	0.007768			-0.00216	33	no	0.683	-
	TriCB 258	12.69	2683	yes						34			
18 PCB 27	256	12.78	2721	1.06	5289	0.005			-0.00147	33	no	1.002	-
	TriCB 258	12.78	2568	yes						32			
19 PCB 24	256	NotFnd	*	*	*	-0.00172			-0.00172	*	no	0.855	-
	TriCB 258	12.87	*	no					*				
20 PCB 16	256	12.91	4759	1.02	9400	0.01779			-0.00294	56	no	0.501	-
	TriCB 258	12.90	4641	yes						47			
21 PCB 32	256	13.14	4749	1.01	9463	0.008204			-0.00135	58	no	1.093	-
	TriCB 258	13.14	4714	yes						58			
22 PCB 34	256	NotFnd	*	*	*	-0.00078			-0.00078	*	no	1.235	-
	TriCB 258	13.74	*	no					*				
23 PCB 23	256	NotFnd	*	*	*	-0.00093			-0.00093	*	no	1.033	-
	TriCB 258	13.82	*	no					*				
24 PCB 26/29	256	13.97	11674	1	23323	0.018095			-0.00079	77	no	1.221	-
	TriCB 258	13.99	11649	yes						82			
25 PCB 25	256	14.10	5764	1.05	11251	0.00799			-0.00072	37	no	1.334	-
	TriCB 258	14.10	5488	yes						36			
26 PCB 31	256	14.26	59026	1.01	117236	0.083188			-0.00072	401	no	1.335	-
	TriCB 258	14.26	58210	yes						408			
27 PCB 28/20	256	14.42	167179	1.02	330565	0.263083			-0.00081	1079	no	1.191	-
	TriCB 258	14.43	163387	yes						1070			
28 PCB 21/33	256	14.55	29431	1.02	58200	0.043931			-0.00077	179	no	1.255	-
	TriCB 258	14.53	28769	yes						180			
29 PCB 22	256	14.75	23511	0.98	47504	0.039938			-0.00085	141	no	1.127	-
	TriCB 258	14.76	23993	yes						154			
30 PCB 36	256	NotFnd	*	*	*	-0.00061			-0.00061	*	no	1.57	-
	TriCB 258	15.60	*	no					*				
31 PCB 39	256	15.83	1229	1.07	2380	0.001708			-0.00073	7	no	1.32	-
	TriCB 258	15.83	1151	yes						7			
32 PCB 38	256	NotFnd	*	*	*	-0.00067			-0.00067	*	no	1.438	-
	TriCB 258	16.18	*	no					*				
33 PCB 35	256	NotFnd	*	*	*	-0.0006			-0.0006	*	no	1.597	-
	TriCB 258	16.45	*	no					*				
34 PCB 37	256	16.70	23060	1	46076	0.032366			-0.00106	138	no	0.906	-
	TriCB 258	16.70	23016	yes						140			
35 PCB 54	290	NotFnd	*	*	*	-0.00112			-0.00112	*	no	0.911	-
	TCB 292	13.08	*	no					*				
36 PCB 53/50	290	14.12	8939	0.76	20746	0.029344			-0.00173	66	no	0.654	-
	TCB 292	14.11	11807	yes						69			
37 PCB 45/51	290	14.48	5244	0.79	11870	0.017358			-0.00178	36	no	0.633	-
	TCB 292	14.49	6626	yes						37			
38 PCB 46	290	14.64	3185	0.85	6931	0.011584			-0.00204	25	no	0.554	-
	TCB 292	14.64	3746	yes						21			
39 PCB 52	290	15.36	67639	0.81	151522	0.168124			-0.00135	489	no	0.834	-
	TCB 292	15.38	83883	yes						476			
40 PCB 73	290	NotFnd	*	*	*	-0.00139			-0.00139	*	no	0.813	-
	TCB 292	15.46	*	no					*				
41 PCB 43	290	15.53	3163	0.87	6798	0.012182			-0.00219	22	yes	0.516	-
	TCB 292	15.52	3636	yes						19			
42 PCB 69/49	290	15.65	27445	0.81	61340	0.066691			-0.00133	201	no	0.851	-
	TCB 292	15.64	33895	yes						191			

43 PCB 48	290	15.83	17352	0.79	39376	0.054124	-0.00168	122	no	0.673	-
	TCB 292	15.84	22023	yes				119			
44 PCB 44/47/65	290	15.96	64305	0.8	144836	0.171157	-0.00144	382	no	0.783	-
	TCB 292	15.98	80531	yes				372			
45 PCB 59/62/75	290	16.16	8669	0.82	19292	0.017565	-0.00111	55	no	1.017	-
	TCB 292	16.17	10623	yes				52			
46 PCB 42	290	16.28	12666	0.85	27619	0.037504	-0.00166	83	no	0.682	-
	TCB 292	16.30	14953	yes				78			
47 PCB 40/41/71	290	16.57	29442	0.83	64979	0.083116	-0.00156	171	no	0.724	-
	TCB 292	16.58	35537	yes				158			
48 PCB 64	290	16.72	16440	0.81	36862	0.037007	-0.00123	112	no	0.922	-
	TCB 292	16.71	20422	yes				107			
49 PCB 72	290	17.20	996	0.72	2389	0.001695	-0.00133	3	yes	1.304	-
	TCB 292	17.19	1393	yes				4			
50 PCB 68	290	17.40	819	1.03	1612	-0.00143	-0.00143	*	yes	1.22	-
	TCB 292	17.40	793	no				*			
51 PCB 57	290	17.68	399	0.82	884	-0.00142	-0.00142	*	yes	1.221	-
	TCB 292	17.68	485	no				*			
52 PCB 58	290	NotFnd	*	*	*	-0.00168	-0.00168	*	no	1.035	-
	TCB 292	17.83	*	no				*			
53 PCB 67	290	17.95	1980	0.78	4526	0.003111	-0.00129	7	yes	1.347	-
	TCB 292	17.94	2546	yes				7			
54 PCB 63	290	18.13	1845	0.76	4270	0.003155	-0.00139	6	yes	1.253	-
	TCB 292	18.13	2425	yes				7			
55 PCB 61/70/74/76	290	18.34	46676	0.79	106100	0.088573	-0.00157	110	no	1.109	-
	TCB 292	18.34	59424	yes				108			
56 PCB 66	290	18.57	19825	0.77	45532	0.033944	-0.0014	65	no	1.241	-
	TCB 292	18.58	25707	yes				65			
57 PCB 55	290	NotFnd	*	*	*	-0.00174	-0.00174	*	no	0.998	-
	TCB 292	18.71	*	no				*			
58 PCB 56	290	19.05	2669	0.83	5875	0.005462	-0.00175	9	no	0.995	-
	TCB 292	19.05	3206	yes				9			
59 PCB 60	290	19.22	2202	0.78	5012	0.004697	-0.00176	8	no	0.988	-
	TCB 292	19.22	2811	yes				7			
60 PCB 80	290	NotFnd	*	*	*	-0.00142	-0.00142	*	no	1.224	-
	TCB 292	19.48	*	no				*			
61 PCB 79	290	NotFnd	*	*	*	-0.00119	-0.00119	*	no	1.462	-
	TCB 292	20.61	*	no				*			
62 PCB 78	290	NotFnd	*	*	*	-0.00135	-0.00135	*	no	1.287	-
	TCB 292	21.06	*	no				*			
63 PCB 81	290	NotFnd	*	*	*	-0.00169	-0.00169	*	no	1.027	-
	TCB 292	21.43	*	no				*			
64 PCB 77	290	21.87	1059	0.82	2343	0.001646	-0.00162	3	no	1.077	-
	TCB 292	21.87	1284	yes				3			
65 PCB 104	326	NotFnd	*	*	*	-0.00043	-0.00043	*	no	1.094	-
	PeCB 328	15.94	*	no				*			
66 PCB 96	326	16.16	-647.9	1.55	-1065.9	-0.00106	-0.00054	12	xL	0.874	-
	PeCB 328	16.16	-418	OK				10			
67 PCB 103	326	17.31	836	1.63	1347	0.00159	-0.00076	8	yes	0.739	-
	PeCB 328	17.33	511	yes				7			
68 PCB 94	326	NotFnd	*	*	*	-0.00104	-0.00104	*	no	0.54	-
	PeCB 328	17.47	*	no				*			
69 PCB 95	326	17.75	31365	1.63	50607	0.064668	-0.00082	256	yes	0.683	-
	PeCB 328	17.77	19242	yes				243			
70 PCB 100/93/102/98	326	18.00	3453	1.68	5509	0.007762	-0.00091	19	yes	0.619	-
	PeCB 328	17.93	2056	yes				17			
71 PCB 88/91	326	18.34	2440	1.56	4007	0.005592	-0.0009	20	yes	0.625	-
	PeCB 328	18.31	1567	yes				20			
72 PCB 84	326	18.50	3104	1.41	5310	0.008673	-0.00105	27	no	0.534	-
	PeCB 328	18.50	2206	yes				27			
73 PCB 89	326	NotFnd	*	*	*	-0.00096	-0.00096	*	no	0.582	-
	PeCB 328	18.84	*	no				*			
74 PCB 121	326	NotFnd	*	*	*	-0.00074	-0.00074	*	no	0.761	-
	PeCB 328	19.08	*	no				*			
75 PCB 92	326	19.36	7775	1.74	12236	0.017857	-0.00094	62	no	0.598	-
	PeCB 328	19.35	4461	yes				55			
76 PCB 113/90/101	326	19.78	53436	1.67	85441	0.104935	-0.00079	413	no	0.71	-
	PeCB 328	19.76	32006	yes				382			
77 PCB 83/99	326	20.23	26270	1.61	42640	0.05969	-0.0009	191	no	0.623	-
	PeCB 328	20.22	16370	yes				181			
78 PCB 112	326	NotFnd	*	*	*	-0.00069	-0.00069	*	no	0.819	-
	PeCB 328	20.33	*	no				*			
79 PCB 109/119/86/97/125/	326	20.62	15821	1.58	25813	0.031002	-0.00077	67	no	0.726	-
	PeCB 328	20.62	9992	yes				63			
80 PCB 117/116/85	326	21.19	6529	1.66	10465	0.011476	-0.00071	44	no	0.796	-
	PeCB 328	21.23	3936	yes				42			
81 PCB 110/115	326	21.32	34605	1.64	55662	0.064772	-0.00075	242	no	0.75	-
	PeCB 328	21.32	21056	yes				223			
82 PCB 82	326	21.57	1551	1.55	2550	0.003941	-0.001	10	no	0.564	-
	PeCB 328	21.59	999	yes				10			
83 PCB 111	326	NotFnd	*	*	*	-0.00069	-0.00069	*	no	0.809	-
	PeCB 328	21.85	*	no				*			
84 PCB 120	326	NotFnd	*	*	*	-0.00059	-0.00059	*	no	0.951	-
	PeCB 328	22.25	*	no				*			
85 PCB 108/124	326	23.20	1903	1.57	3112	0.002419	-0.00096	7	no	1.122	-
	PeCB 328	23.21	1209	yes				8			
86 PCB 107	326	23.42	5219	1.45	8812	0.0067	-0.00093	18	yes	1.147	-
	PeCB 328	23.40	3592	yes				18			
87 PCB 123	326	NotFnd	*	*	*	-0.0012	-0.0012	*	no	0.894	-
	PeCB 328	23.51	*	no				*			
88 PCB 106	326	NotFnd	*	*	*	-0.00088	-0.00088	*	no	1.218	-
	PeCB 328	23.63	*	no				*			
89 PCB 118	326	23.79	54659	1.54	90156	0.069981	-0.00109	188	no	0.981	-
	PeCB 328	23.80	35497	yes				190			

90 PCB 122	326	NotFnd	*	*	*	-0.00099	-0.00099	*	no	1.079	-
	PeCB 328	24.08	*	no	*			*			
91 PCB 114	326	NotFnd	*	*	*	-0.00106	-0.00106	*	no	1.01	-
	PeCB 328	24.28	*	no	*			*			
92 PCB 105	326	24.84	18035	1.55	29642	0.023534	-0.0011	58	no	0.977	-
	PeCB 328	24.85	11607	yes	*			59			
93 PCB 127	326	NotFnd	*	*	*	-0.00087	-0.00087	*	no	1.23	-
	PeCB 328	26.20	*	no	*			*			
94 PCB 126	326	NotFnd	*	*	*	-0.0011	-0.0011	*	no	0.977	-
	PeCB 328	27.72	*	no	*			*			
95 PCB 155	360	NotFnd	*	*	*	-0.00131	-0.00131	*	no	0.997	-
	HxCB 362	19.63	*	no	*			*			
96 PCB 152	360	NotFnd	*	*	*	-0.0016	-0.0016	*	no	0.813	-
	HxCB 362	19.78	*	no	*			*			
97 PCB 150	360	NotFnd	*	*	*	-0.002	-0.002	*	no	0.65	-
	HxCB 362	19.88	*	no	*			*			
98 PCB 136	360	20.18	6740	1.31	11901	0.014992	-0.00171	35	no	0.761	-
	HxCB 362	20.18	5162	yes	*			34			
99 PCB 145	360	NotFnd	*	*	*	-0.00197	-0.00197	*	no	0.662	-
	HxCB 362	20.41	*	no	*			*			
100 PCB 148	360	NotFnd	*	*	*	-0.00237	-0.00237	*	no	0.551	-
	HxCB 362	21.55	*	no	*			*			
101 PCB 151/135	360	22.03	19168	1.38	33092	0.061122	-0.00251	80	no	0.519	-
	HxCB 362	22.04	13924	yes	*			75			
102 PCB 154	360	22.23	1162	1.28	2068	0.003209	-0.00211	6	no	0.618	-
	HxCB 362	22.22	906	yes	*			6			
103 PCB 144	360	22.49	2140	1.18	3950	0.006737	-0.00232	11	no	0.562	-
	HxCB 362	22.51	1811	yes	*			11			
104 PCB 147/149	360	22.79	66311	1.33	116115	0.168106	-0.0029	210	yes	0.662	-
	HxCB 362	22.80	49804	yes	*			198			
105 PCB 134/143	360	22.97	1665	1.15	3117	0.0051	-0.00327	6	no	0.586	-
	HxCB 362	23.06	1452	yes	*			6			
106 PCB 139/140	360	NotFnd	*	*	*	-0.00282	-0.00282	*	no	0.68	-
	HxCB 362	23.31	*	no	*			*			
107 PCB 131	360	NotFnd	*	*	*	-0.00357	-0.00357	*	no	0.537	-
	HxCB 362	23.49	*	no	*			*			
108 PCB 142	360	NotFnd	*	*	*	-0.00306	-0.00306	*	no	0.626	-
	HxCB 362	23.65	*	no	*			*			
109 PCB 132	360	23.88	7656	1.22	13930	0.023835	-0.00342	23	no	0.561	-
	HxCB 362	23.88	6273	yes	*			23			
110 PCB 133	360	24.29	1757	1.37	3037	0.004433	-0.00292	5	no	0.657	-
	HxCB 362	24.31	1280	yes	*			4			
111 PCB 165	360	NotFnd	*	*	*	-0.00251	-0.00251	*	no	0.765	-
	HxCB 362	24.66	*	no	*			*			
112 PCB 146	360	24.88	17647	1.31	31075	0.042283	-0.00272	50	no	0.705	-
	HxCB 362	24.86	13428	yes	*			48			
113 PCB 161	360	NotFnd	*	*	*	-0.00198	-0.00198	*	no	0.97	-
	HxCB 362	25.01	*	no	*			*			
114 PCB 153/168	360	25.43	143407	1.32	252500	0.284182	-0.00225	409	no	0.852	-
	HxCB 362	25.45	109093	yes	*			383			
115 PCB 141	360	25.61	2852	1.37	4931	0.00694	-0.00281	8	no	0.681	-
	HxCB 362	25.60	2079	yes	*			7			
116 PCB 130	360	25.98	3414	1.25	6147	0.009555	-0.00311	10	no	0.617	-
	HxCB 362	25.99	2733	yes	*			10			
117 PCB 137	360	26.21	1095	1.54	1804	-0.00316	-0.00316	*	yes	0.607	-
	HxCB 362	26.19	709	no	*			*			
118 PCB 164	360	26.29	2734	1.23	4955	0.005205	-0.0021	7	yes	0.913	-
	HxCB 362	26.28	2222	yes	*			8			
119 PCB 138/163/129	360	26.59	101766	1.3	179735	0.244661	-0.00272	270	no	0.705	-
	HxCB 362	26.60	77968	yes	*			259			
120 PCB 160	360	NotFnd	*	*	*	-0.00233	-0.00233	*	no	0.822	-
	HxCB 362	26.78	*	no	*			*			
121 PCB 158	360	26.96	9049	1.28	16106	0.015379	-0.00191	25	no	1.004	-
	HxCB 362	26.96	7058	yes	*			23			
122 PCB 128/166	360	27.80	10432	1.32	18356	0.02275	-0.00248	23	no	0.774	-
	HxCB 362	27.78	7924	yes	*			22			
123 PCB 159	360	NotFnd	*	*	*	-0.00086	-0.00086	*	no	1.179	-
	HxCB 362	28.76	*	no	*			*			
124 PCB 162	360	29.05	392	1.57	642	-0.00092	-0.00092	*	yes	1.101	-
	HxCB 362	29.05	250	no	*			*			
125 PCB 167	360	29.53	4811	1.32	8444	0.006458	-0.00107	22	no	0.946	-
	HxCB 362	29.52	3634	yes	*			20			
126 PCB 156/157	360	30.68	8671	1.26	15551	0.01205	-0.00099	35	no	1.017	-
	HxCB 362	30.71	6880	yes	*			33			
127 PCB 169	360	NotFnd	*	*	*	-0.00106	-0.00106	*	no	0.954	-
	HxCB 362	34.11	*	no	*			*			
128 PCB 188	394	NotFnd	*	*	*	-0.00116	-0.00116	*	no	1.012	-
	HpCB 396	24.23	*	no	*			*			
129 PCB 179	394	24.52	8834	1.1	16888	0.01889	-0.00112	51	no	1.047	-
	HpCB 396	24.52	8055	yes	*			48			
130 PCB 184	394	NotFnd	*	*	*	-0.00122	-0.00122	*	no	0.961	-
	HpCB 396	25.00	*	no	*			*			
131 PCB 176	394	25.32	2190	1.02	4346	0.004956	-0.00114	13	no	1.027	-
	HpCB 396	25.31	2156	yes	*			14			
132 PCB 186	394	NotFnd	*	*	*	-0.0013	-0.0013	*	no	0.899	-
	HpCB 396	25.75	*	no	*			*			
133 PCB 178	394	27.00	3972	1.07	7671	0.012443	-0.00162	22	no	0.722	-
	HpCB 396	27.01	3699	yes	*			23			
134 PCB 175	394	NotFnd	*	*	*	-0.00156	-0.00156	*	no	0.753	-
	HpCB 396	27.61	*	no	*			*			
135 PCB 187	394	27.87	25722	1.09	49331	0.079901	-0.00162	142	no	0.723	-
	HpCB 396	27.88	23609	yes	*			138			
136 PCB 182	394	NotFnd	*	*	*	-0.00157	-0.00157	*	no	0.747	-
	HpCB 396	28.10	*	no	*			*			

184 PCB 188L	406	24.20	71625	1.08	137712	0.144151	0	5141	no	1.329	72
	408	24.21	66087	yes				2416			
185 PCB 180L	406	32.09	70718	1.04	138987	0.140193	0	2046	no	1.349	70
	408	32.09	68270	yes				2349			
186 PCB 170L	406	33.42	65955	1.13	124243	0.143207	0	1891	no	1.18	72
	408	33.42	58288	yes				1974			
187 PCB 189L	406	36.84	144161	1.06	280572	0.176913	0	2476	no	2.157	89
	408	36.83	136411	yes				2493			
188 PCB 202L	440	29.25	59750	0.92	125056	0.119841	0	4041	no	1.419	60
	442	29.27	65305	yes				2111			
189 PCB 205L	440	39.71	95352	0.94	196878	0.174886	0	1936	no	1.531	88
	442	39.73	101526	yes				2290			
190 PCB 208L	474	36.27	50337	0.76	116490	0.139066	0	4013	no	1.139	70
	476	36.28	66153	yes				3829			
191 PCB 206L	474	41.70	40384	0.81	89986	0.161153	0	3064	no	0.76	81
	476	41.73	49601	yes				2705			
192 PCB 209L	510	43.54	43249	1.15	80910	0.151947	0	4455	no	0.724	76
	512	43.53	37661	yes				1558			
193 PCB 28L	268	14.41	211487	1.06	411166	0.255225	0.001	739	no	2.039	115
PCB Cleanup Standard	270	14.43	199679	yes				1259			
194 PCB 111L	338	21.83	131003	1.66	210014	0.222388	0	1187	no	1.343	100
PCB Cleanup Standard	340	21.84	79011	yes				2848			
195 PCB 178L	406	26.98	54960	1.05	107242	0.203612	0	3687	no	0.733	92
PCB Cleanup Standard	408	26.97	52282	yes				1805			
196 PCB 31L	268	NotFnd	*	*	*		0.001		no	1.934	
PCB Audit Standard	270	14.26	*	no							
197 PCB 95L	338	NotFnd	*	*	*		0.001		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	1226711	1.6	1993434	10.21245	-	10967	no	-	-
PCB Recovery Standard	236	11.19	766722	yes				12093			
200 PCB 52L	302	15.36	388693	0.8	875996	6.936327	-	4723	no	-	-
PCB Recovery Standard	304	15.36	487303	yes				8627			
201 PCB 101L	338	19.77	483787	1.63	779714	7.095278	-	4656	no	-	-
PCB Recovery Standard	340	19.76	295928	yes				11273			
202 PCB 138L	372	26.57	452058	1.31	796876	7.398286	-	13082	no	-	-
PCB Recovery Standard	374	26.56	344818	yes				10593			
203 PCB 194L	440	39.18	391355	0.92	815204	7.536248	-	8061	no	-	-
PCB Recovery Standard	442	39.17	423849	yes				9691			
Chlorobiphenyls							0	-0.00073			
Dichlorobiphenyls							2	-0.00433			
Trichlorobiphenyls							14	-0.00294			
Tetrachlorobiphenyls							20	-0.00219			
Pentachlorobiphenyls							16	-0.0012			
Hexachlorobiphenyls							18	-0.00357			
Heptachlorobiphenyls							11	-0.00248			
Octachlorobiphenyls							3	-0.00174			
Nonachlorobiphenyls							0	-0.00153			
Decachlorobiphenyl							0	-0.0025			
PCB (total)								3.162713			

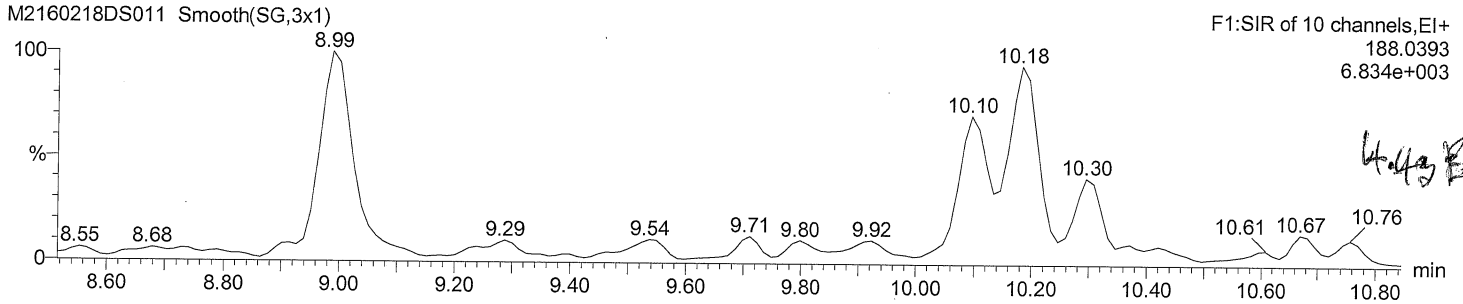
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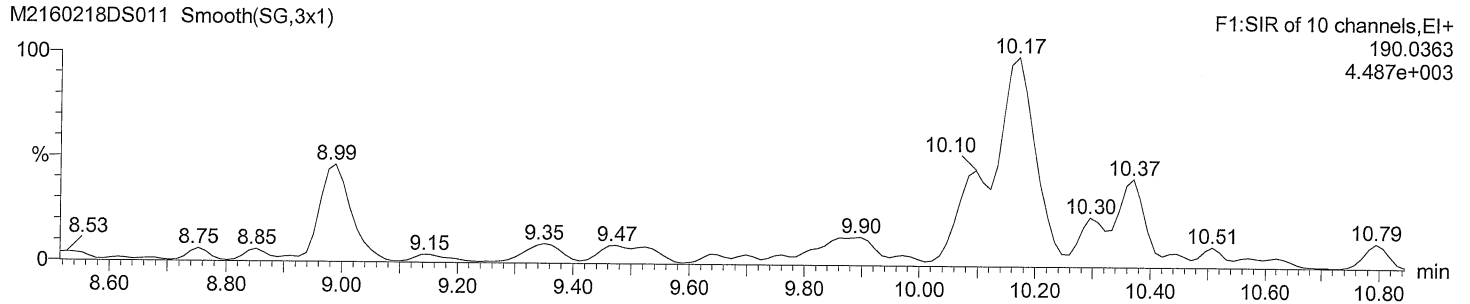
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ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti
Description: BRP511-01R
Vial: 11
Date: 18-FEB-2016
Time: 02:49:27

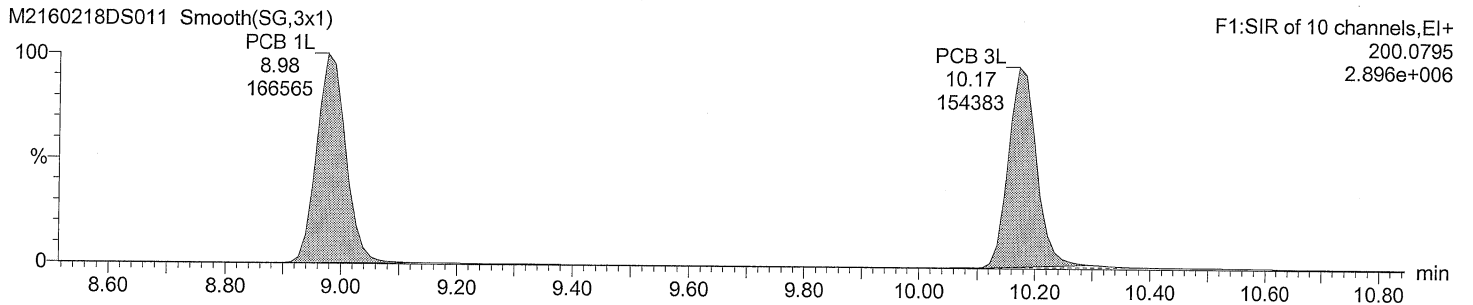
Total MoCB F1



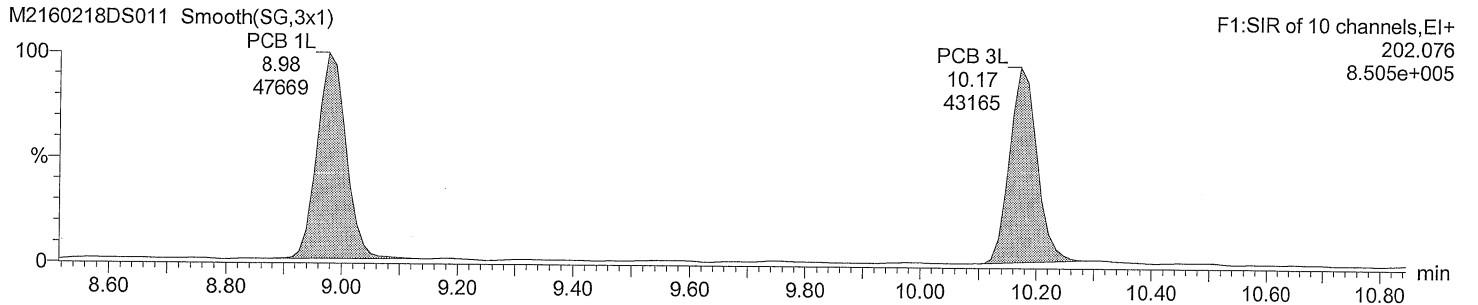
Total MoCB F1



Total MoCB labeled F1



Total MoCB labeled F1



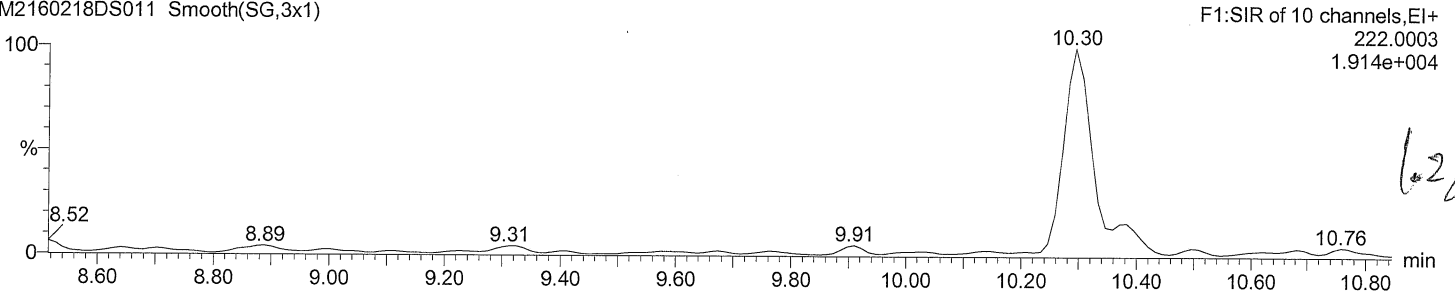
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Description: BRP511-01R
Vial: 11
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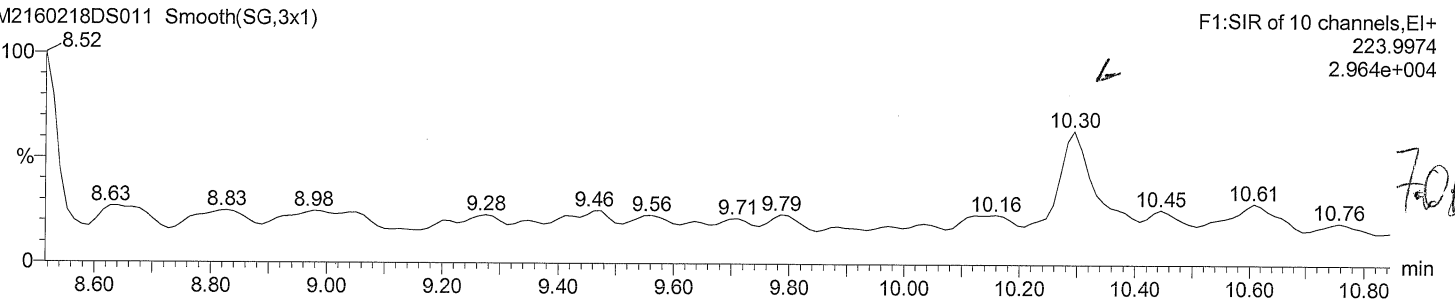
Total DiCB F1

M2160218DS011 Smooth(SG,3x1)



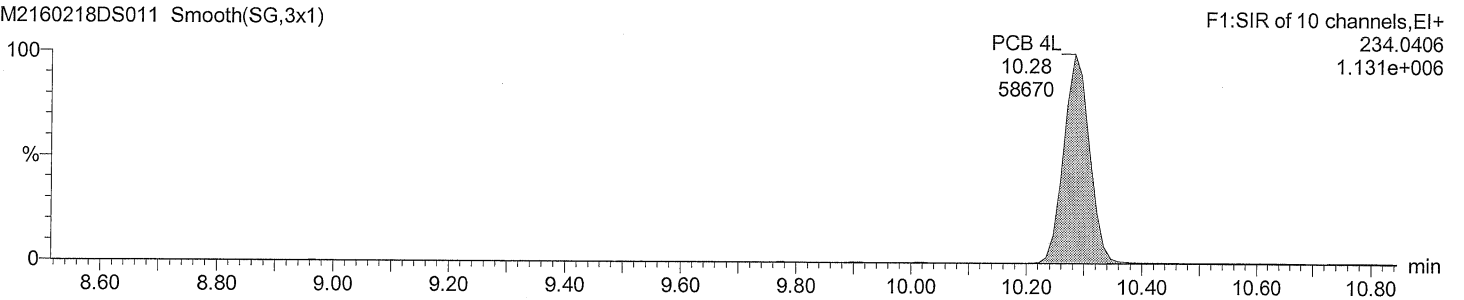
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M2160218DS011 Smooth(SG,3x1)



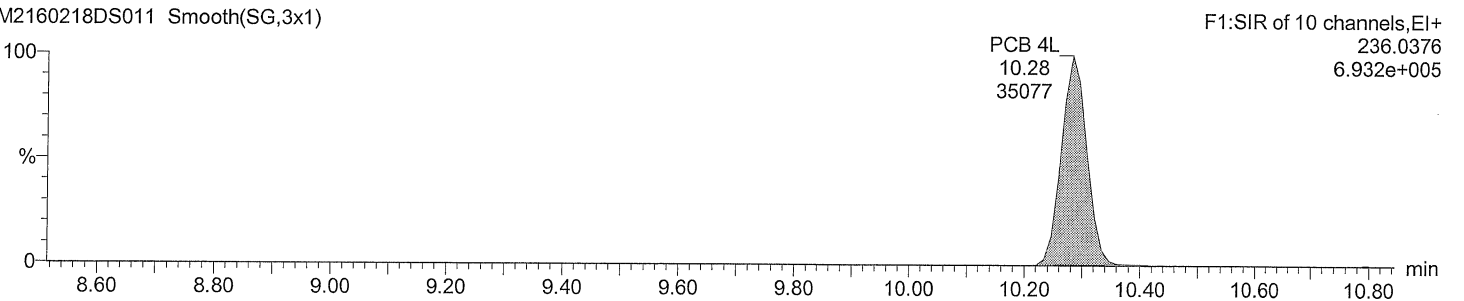
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M2160218DS011 Smooth(SG,3x1)



Total DiCB labeled F1

M2160218DS011 Smooth(SG,3x1)



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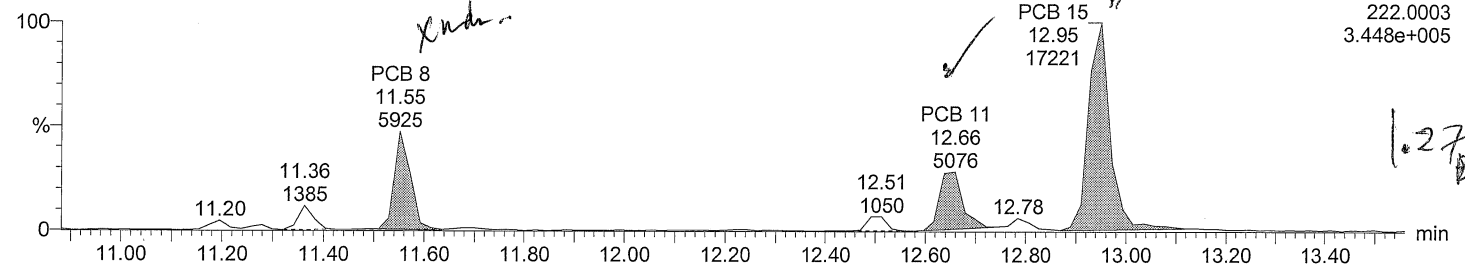
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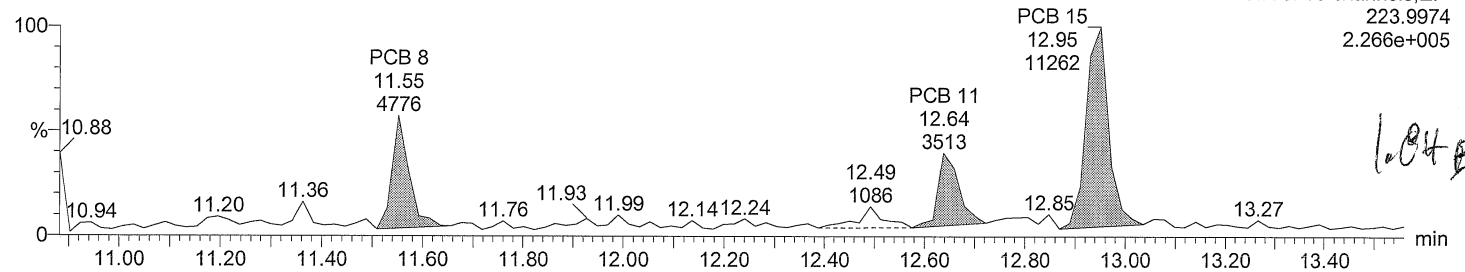
Total DiCB F2

M2160218DS011



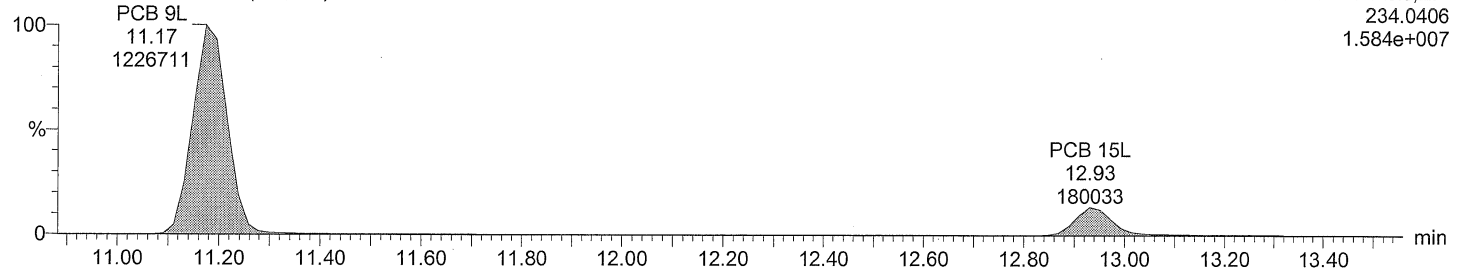
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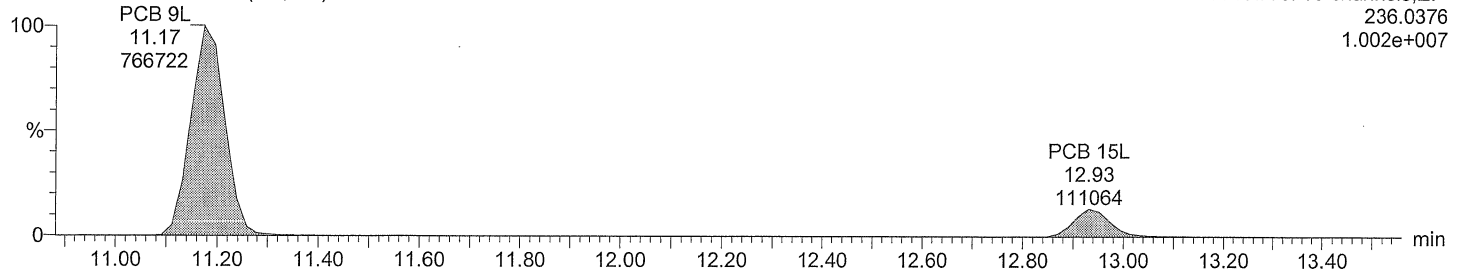
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M2160218DS011 Smooth(SG,3x1)



Total DiCB labeled F2

M2160218DS011 Smooth(SG,3x1)



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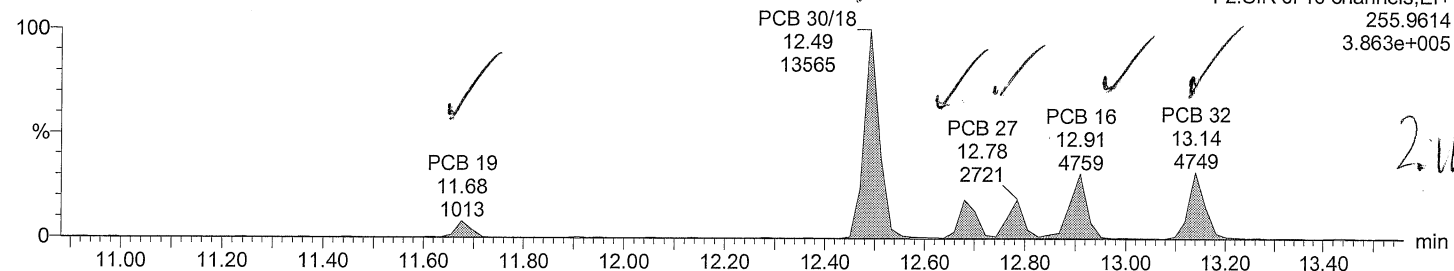
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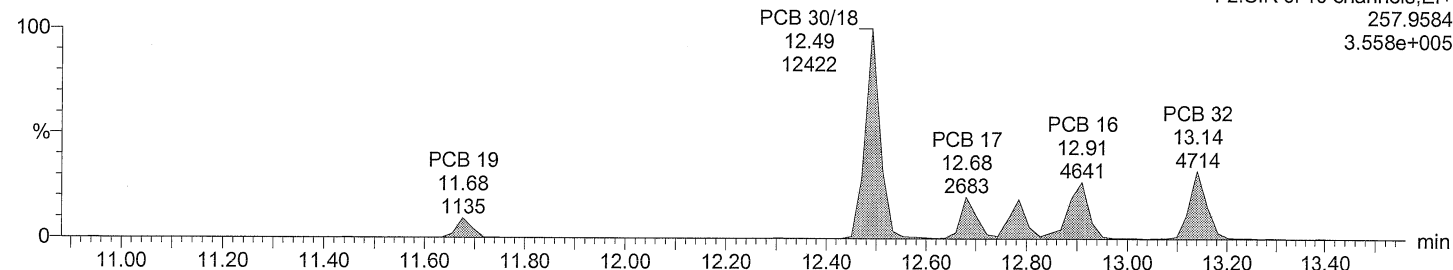
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M2160218DS011



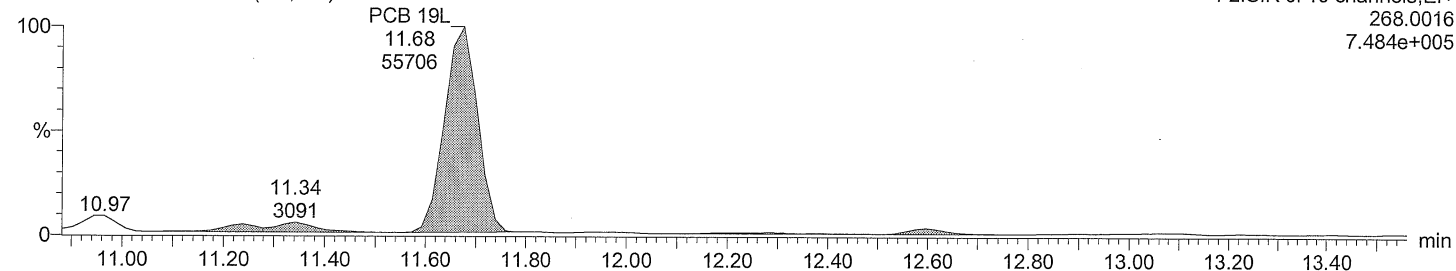
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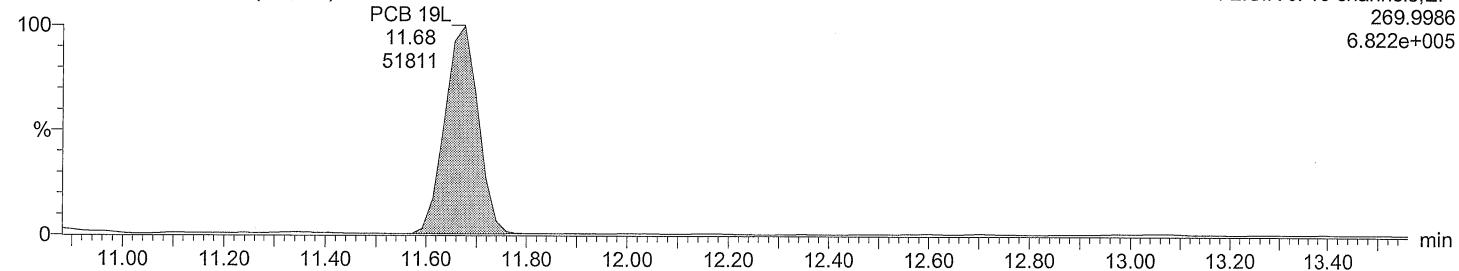
Total TriCB labeled F2

M2160218DS011 Smooth(SG,3x1)



Total TriCB labeled F2

M2160218DS011 Smooth(SG,3x1)

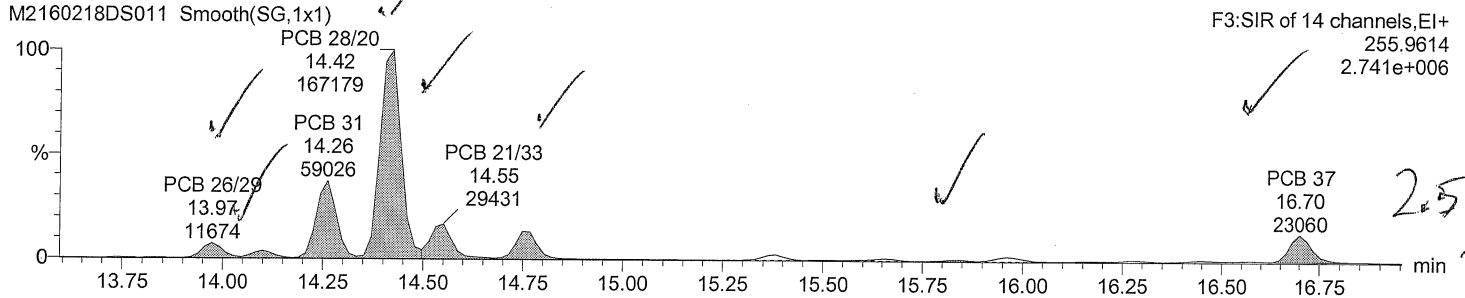


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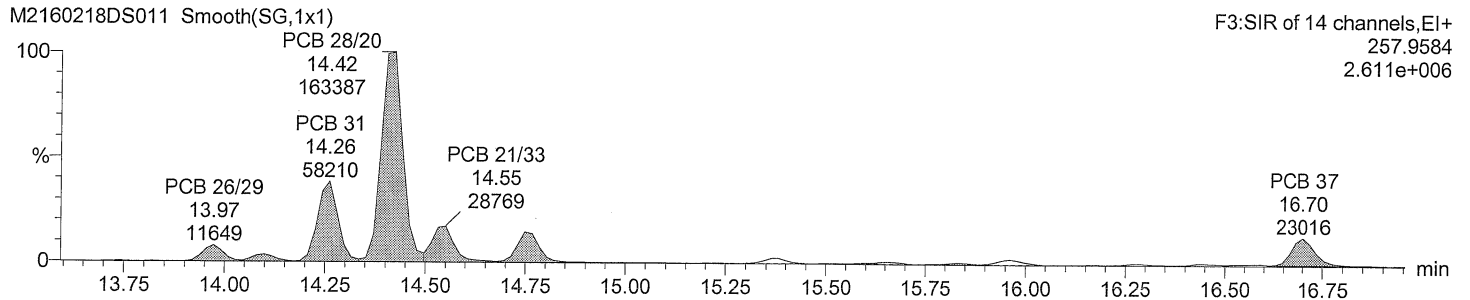
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ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti
Description: BRP511-01R
Vial: 11
Date: 18-FEB-2016
Time: 02:49:27

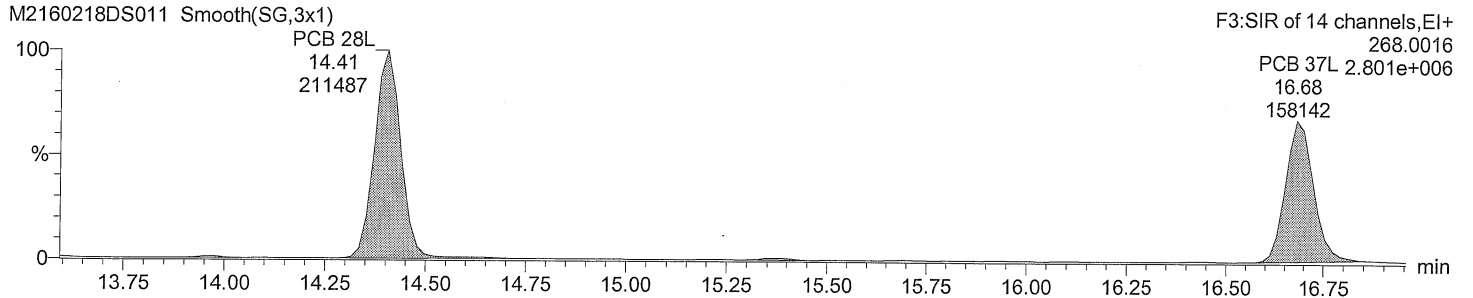
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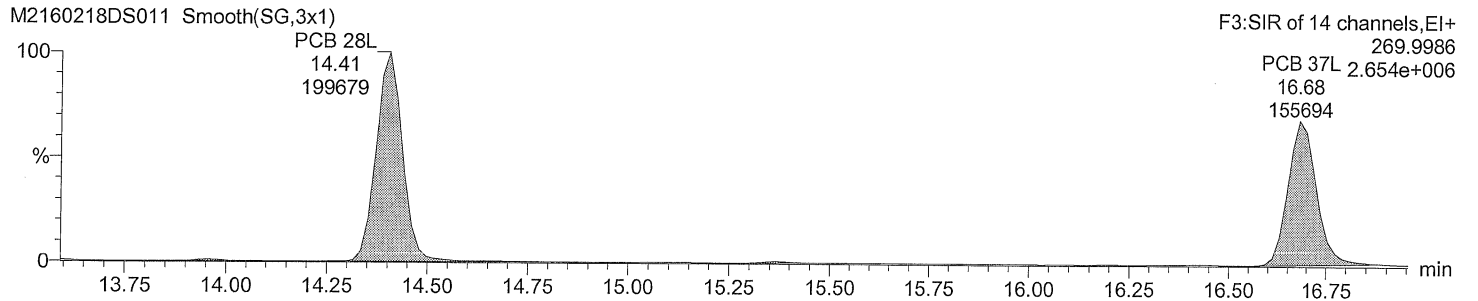
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



Acquired Date

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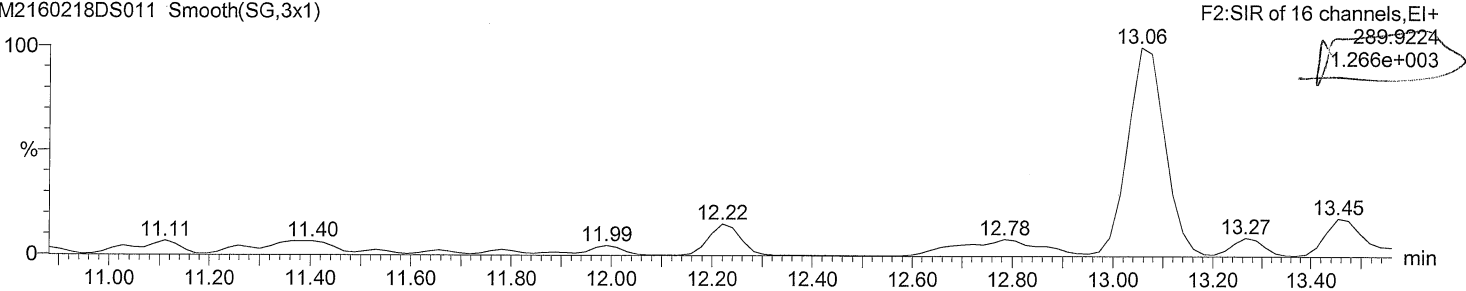
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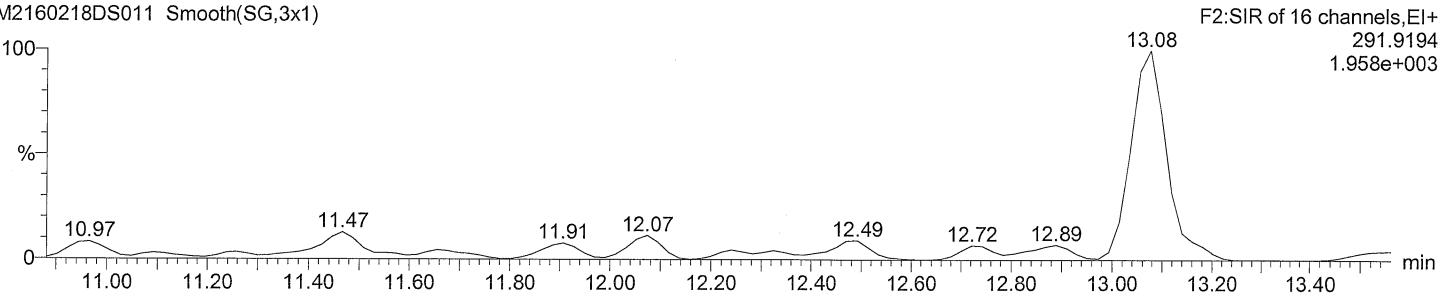
Total TeCB F2

M2160218DS011 Smooth(SG,3x1)



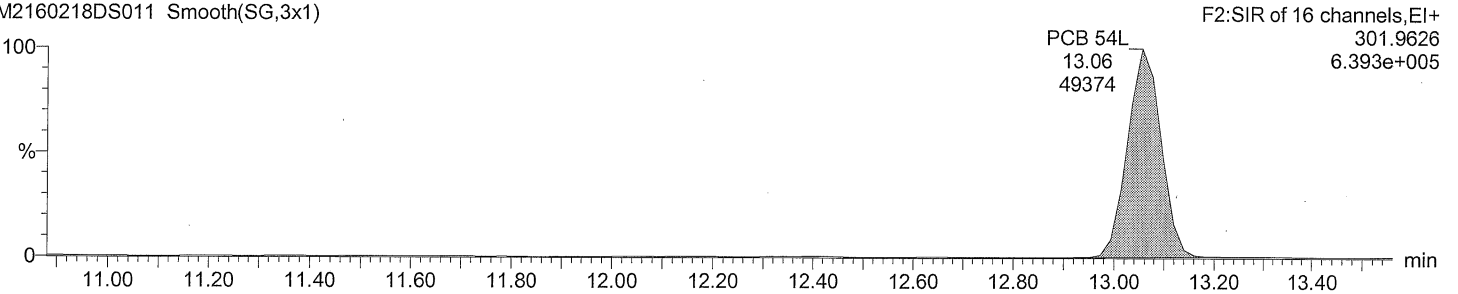
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M2160218DS011 Smooth(SG,3x1)



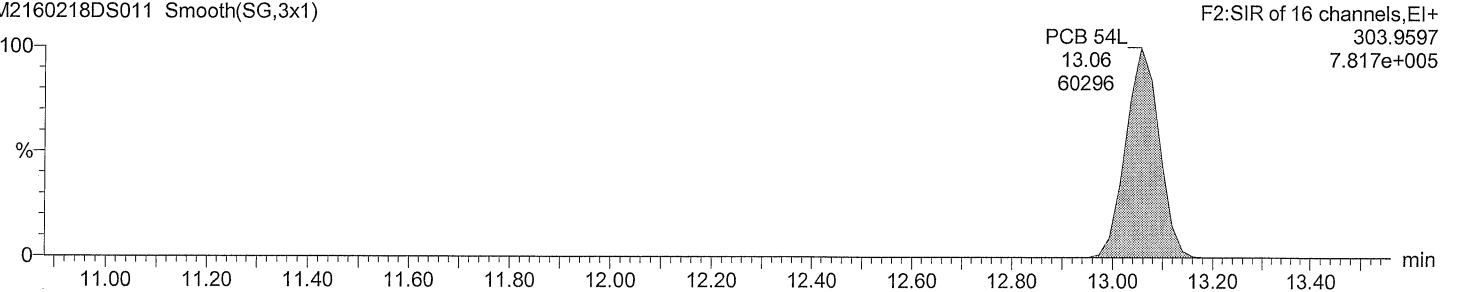
Total TeCB labeled F2

M2160218DS011 Smooth(SG,3x1)



Total TeCB labeled F2

M2160218DS011 Smooth(SG,3x1)



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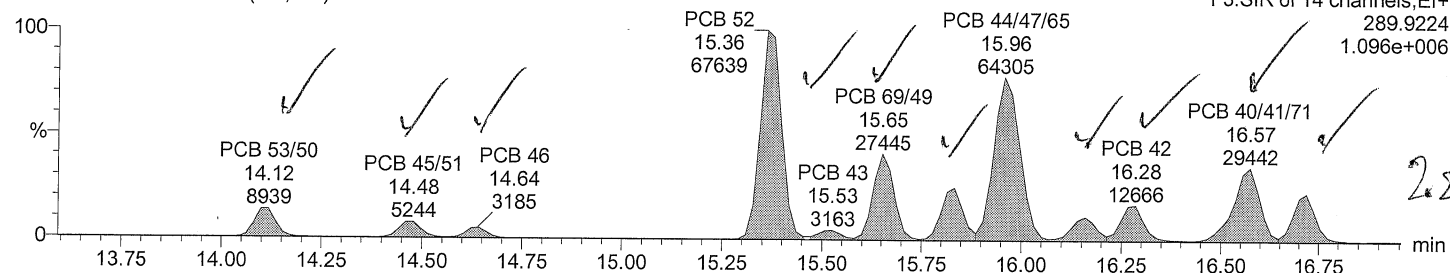
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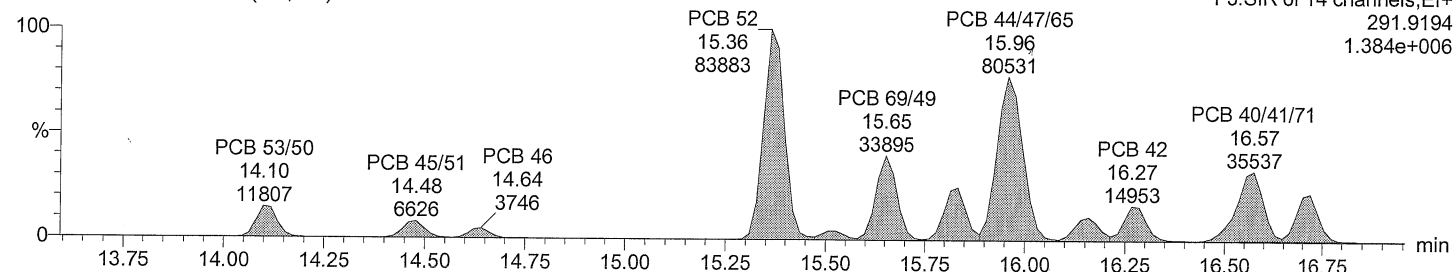
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M2160218DS011 Smooth(SG,1x1)



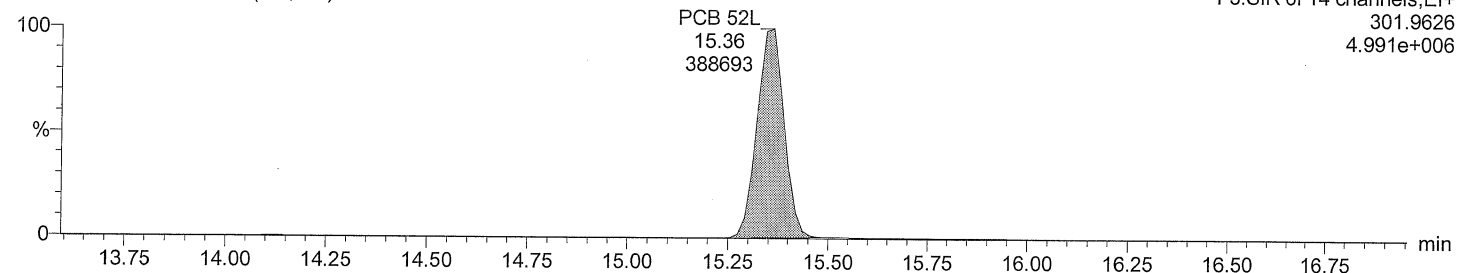
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M2160218DS011 Smooth(SG,1x1)



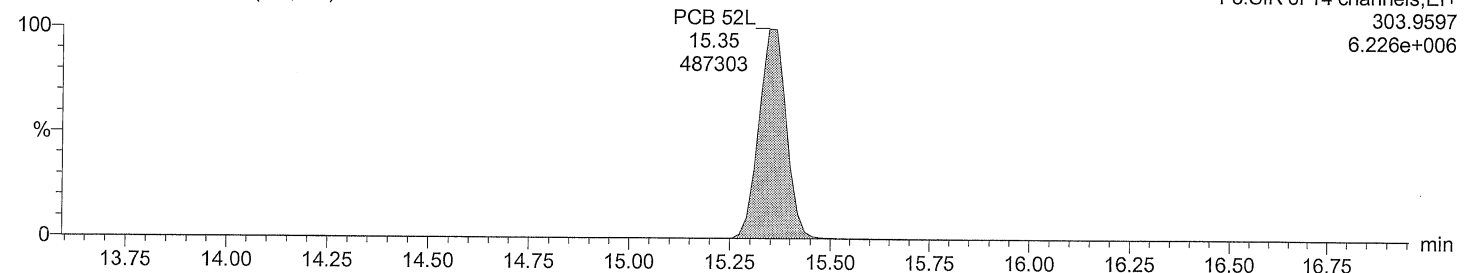
Total TeCB labeled F3

M2160218DS011 Smooth(SG,3x1)



Total TeCB labeled F3

M2160218DS011 Smooth(SG,3x1)



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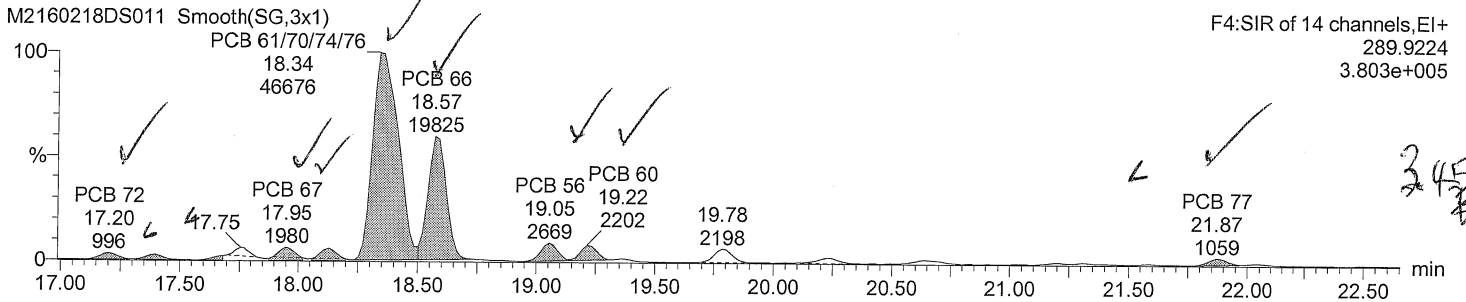
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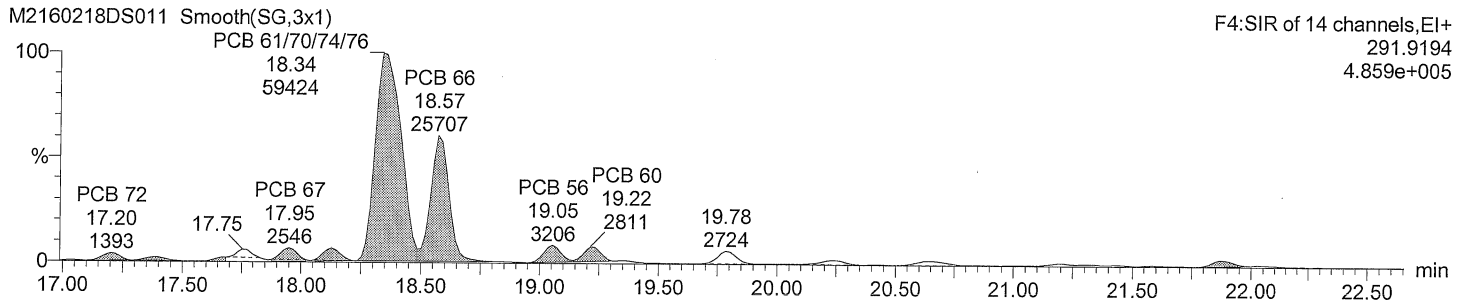
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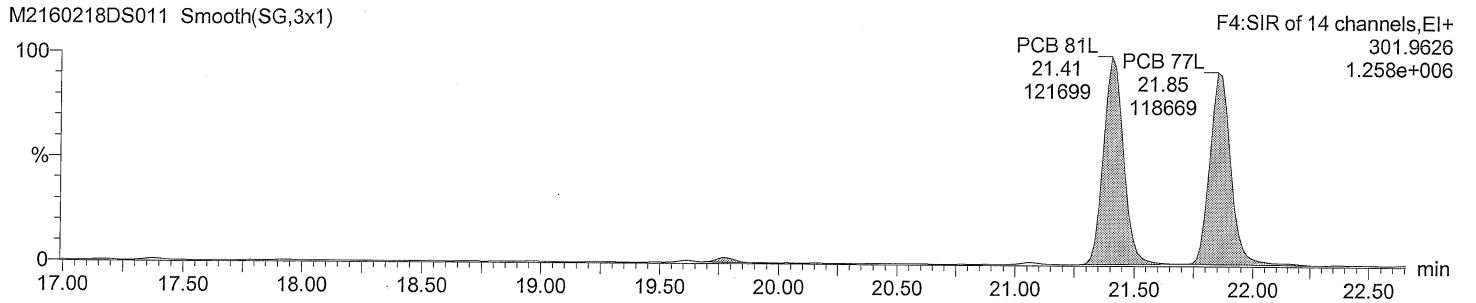
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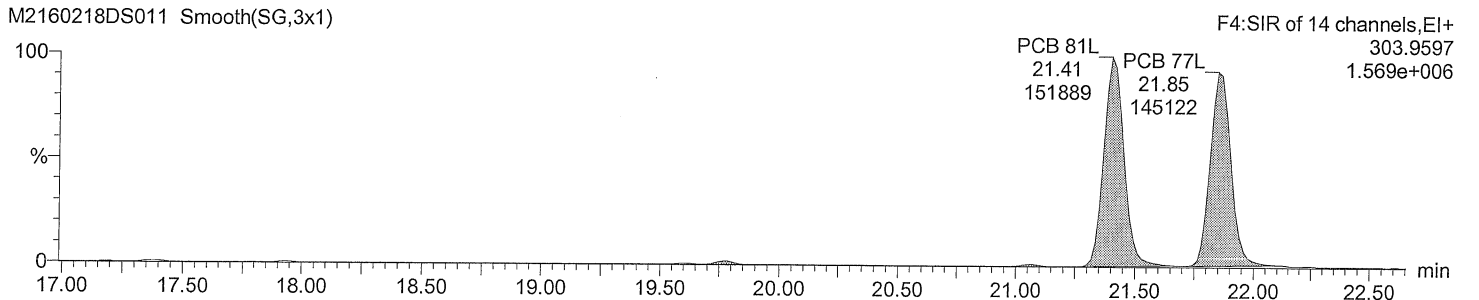
Total TeCB F4



Total TeCB labeled F4



Total TeCB labeled F4



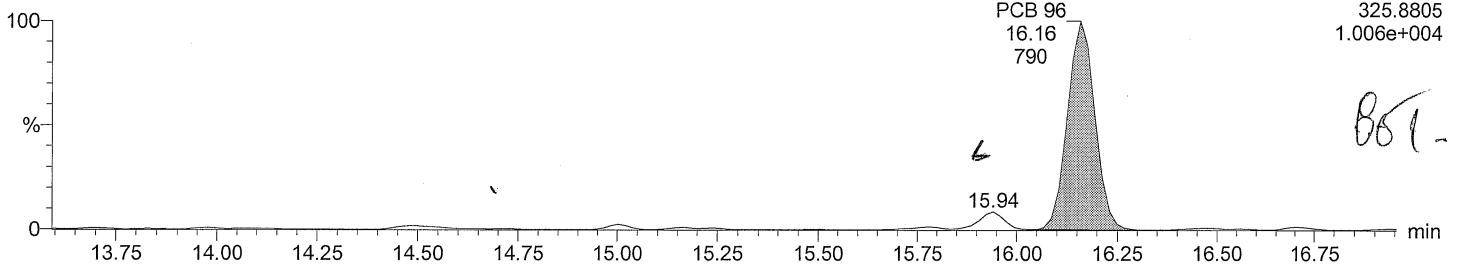
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Vial: 11
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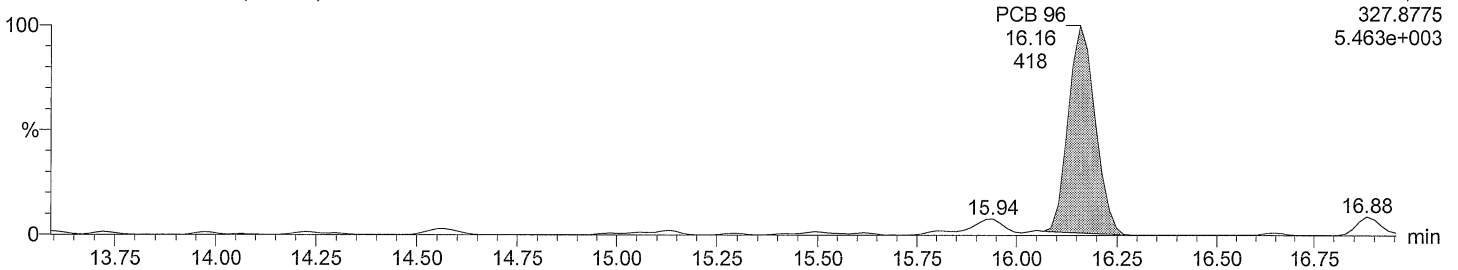
Total PeCB F3

M2160218DS011 Smooth(SG,3x1)



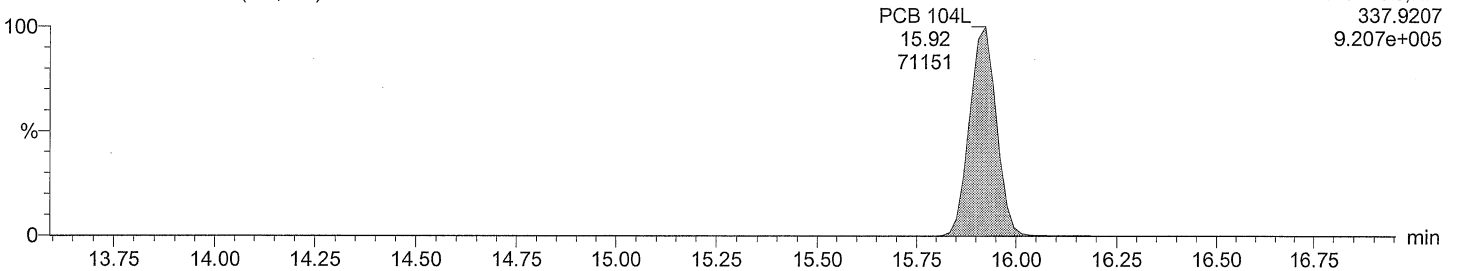
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M2160218DS011 Smooth(SG,3x1)



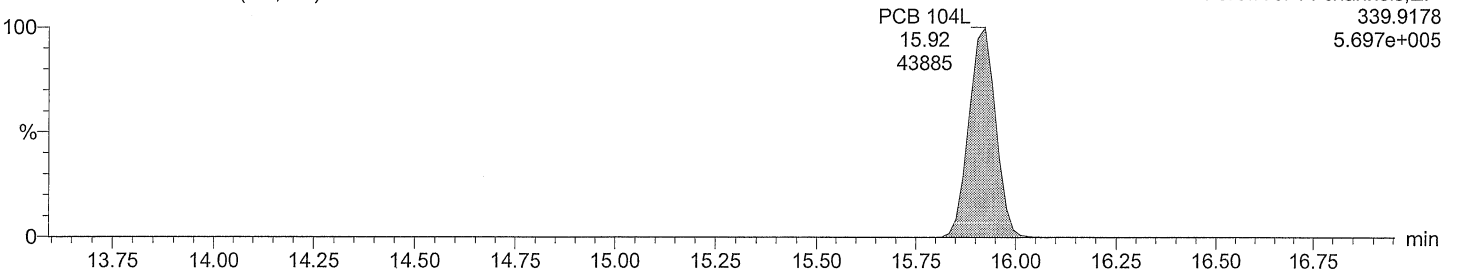
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M2160218DS011 Smooth(SG,3x1)



Total PeCB labeled F3

M2160218DS011 Smooth(SG,3x1)

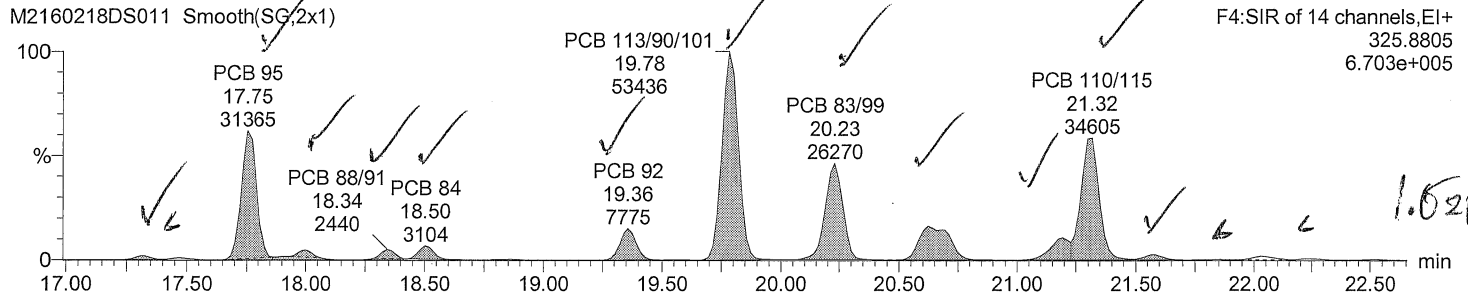


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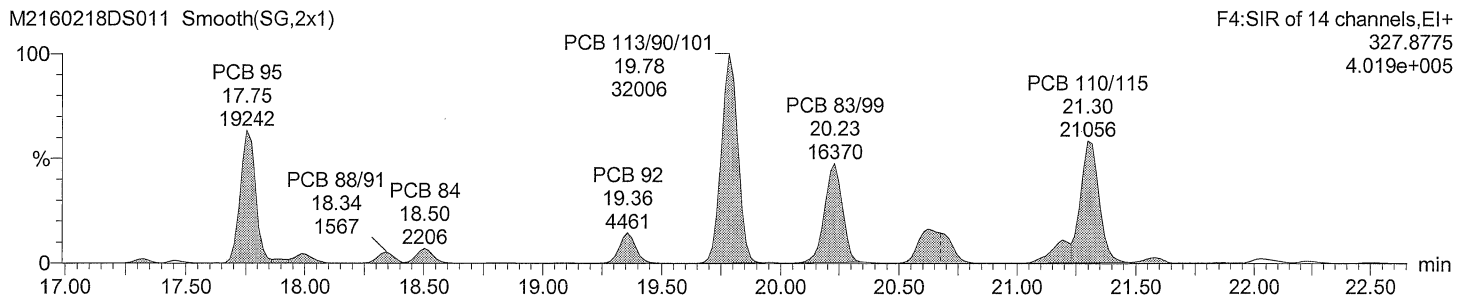
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Date: 18-FEB-2016
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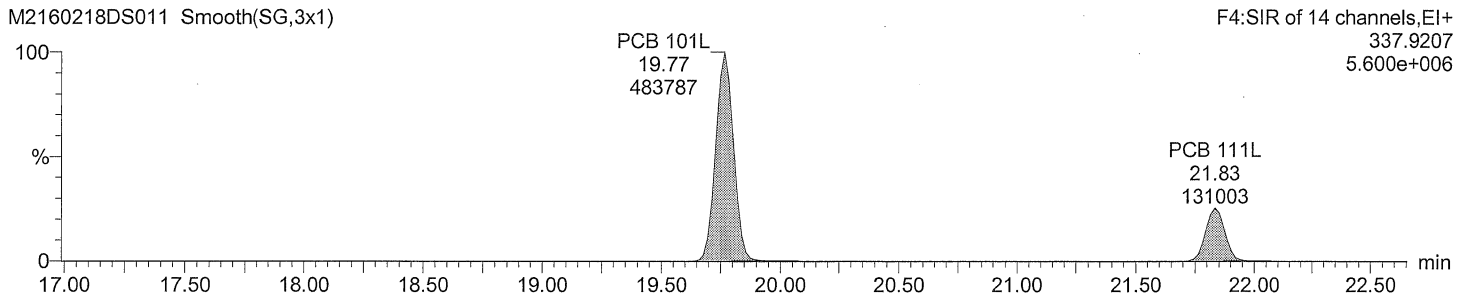
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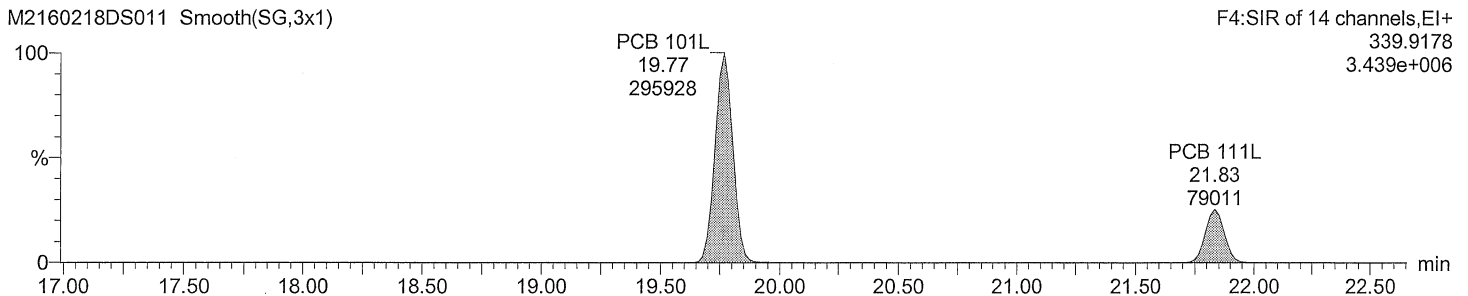
Total PeCB F4



Total PeCB labeled F4



Total PeCB labeled F4



Acquired Date

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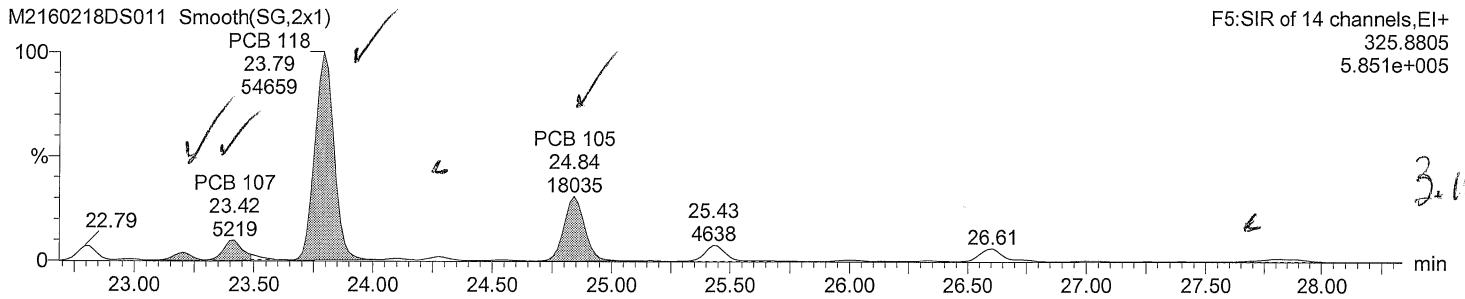
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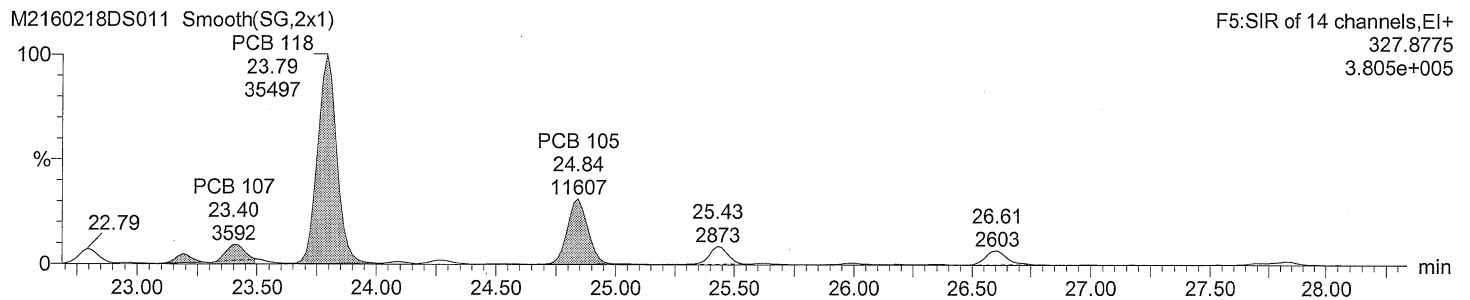
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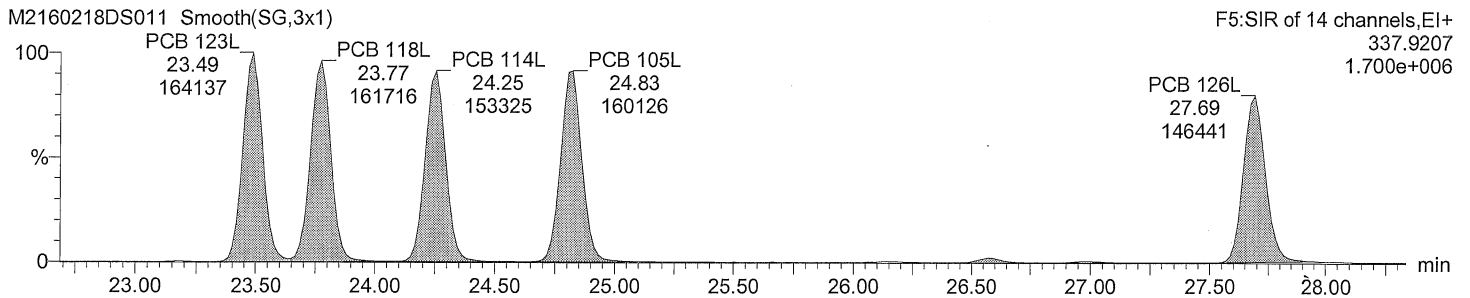
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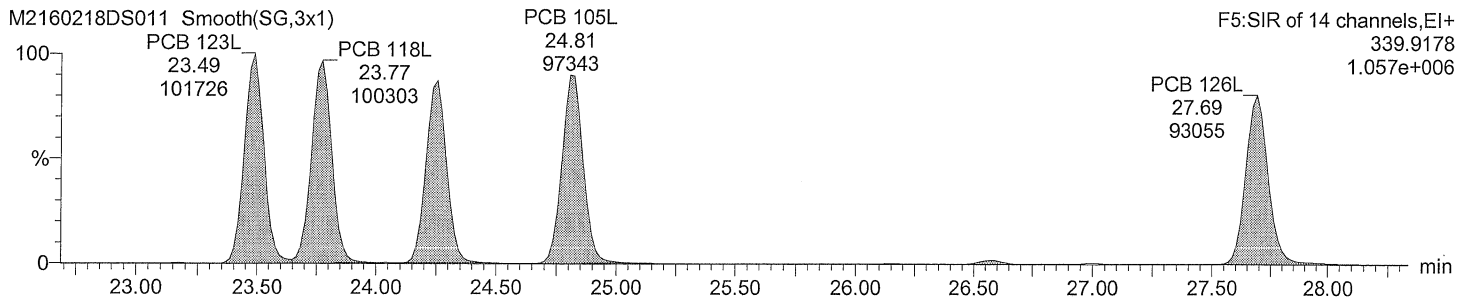
Total PeCB F5



Total PeCB labeled F5



Total PeCB labeled F5



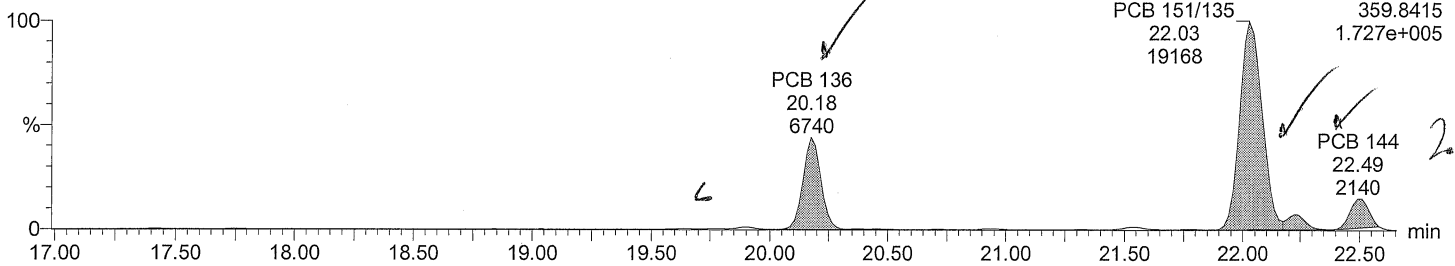
Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time
Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti
Description: BRP511-01R
Vial: 11
Date: 18-FEB-2016
Time: 02:49:27

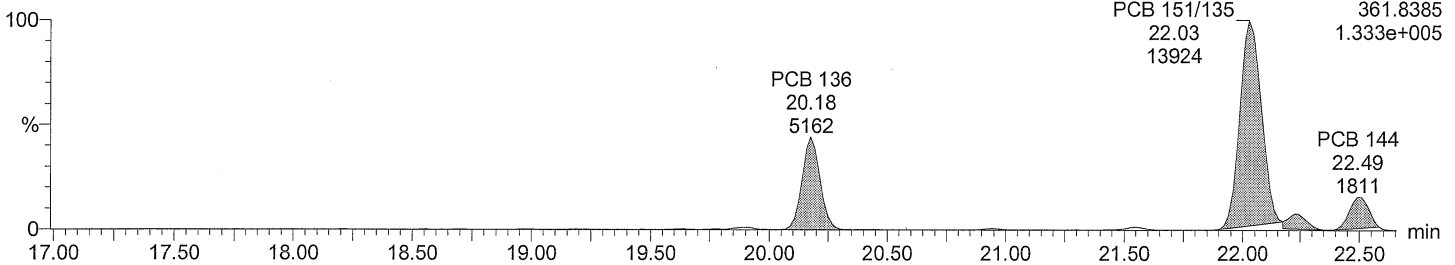
Total HxCB F4

M2160218DS011 Smooth(SG,3x1)



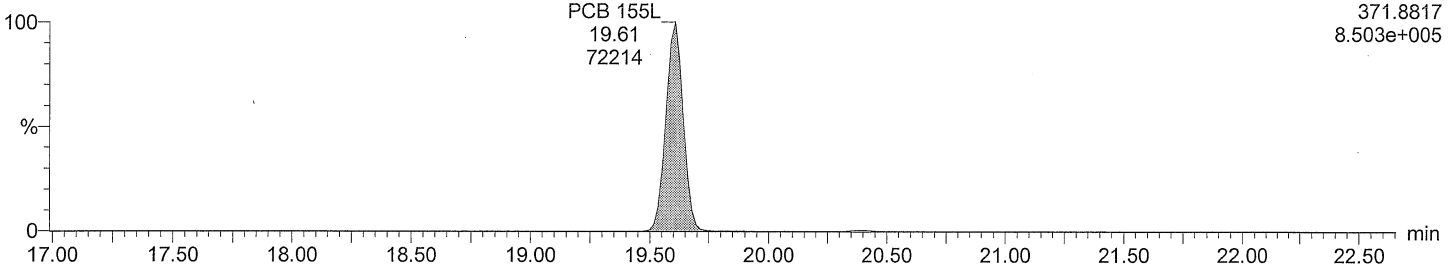
Total HxCB F4

M2160218DS011 Smooth(SG,3x1)



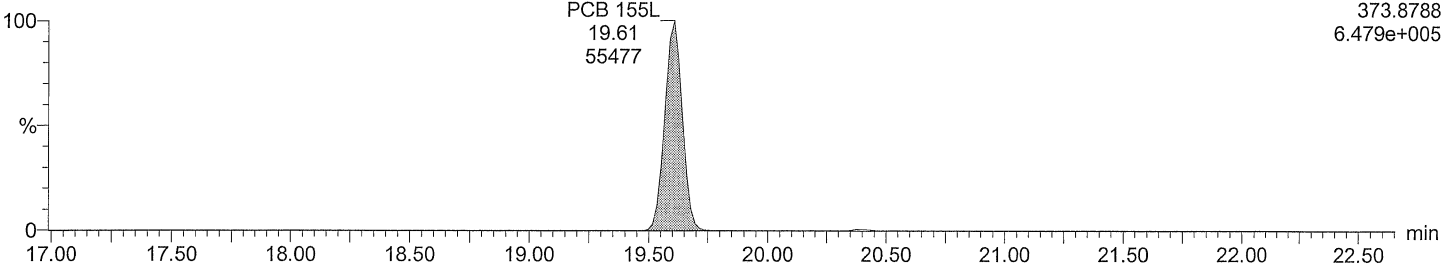
Total HxCB labeled F4

M2160218DS011 Smooth(SG,3x1)



Total HxCB labeled F4

M2160218DS011 Smooth(SG,3x1)



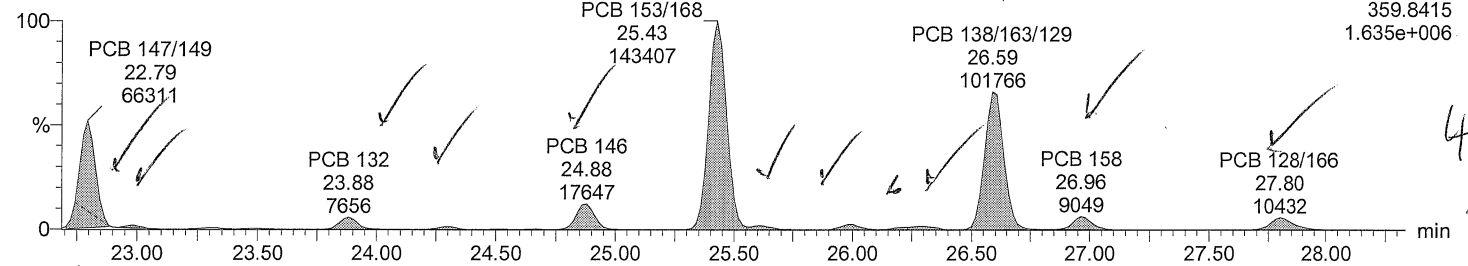
Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time
Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti
Description: BRP511-01R
Vial: 11
Date: 18-FEB-2016
Time: 02:49:27

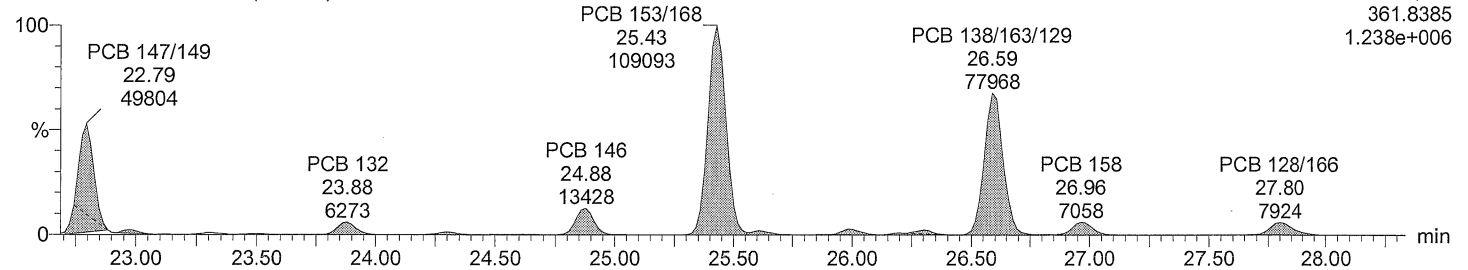
Total HxCB F5

M2160218DS011 Smooth(SG,1x1)



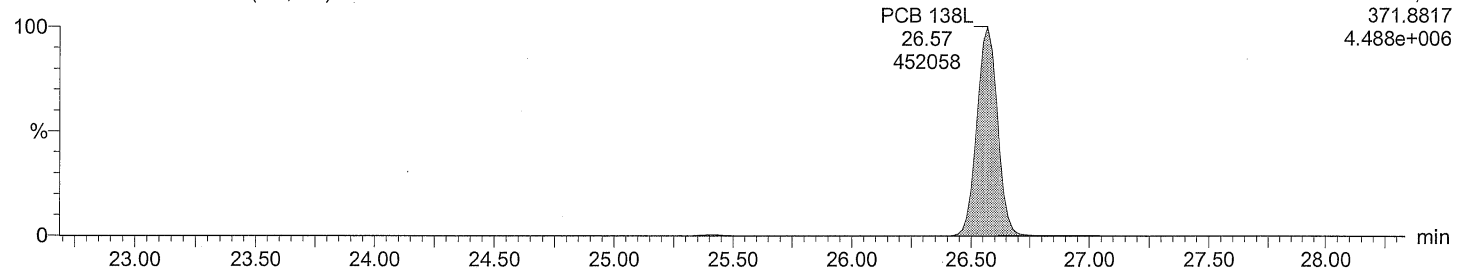
Total HxCB F5

M2160218DS011 Smooth(SG,1x1)



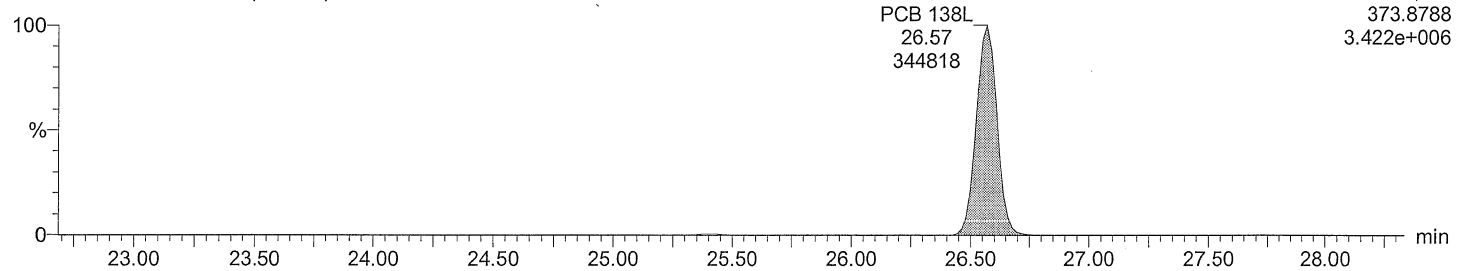
Total HxCB labeled F5

M2160218DS011 Smooth(SG,3x1)



Total HxCB labeled F5

M2160218DS011 Smooth(SG,3x1)



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

Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time

Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

Description: BRP511-01R

Vial: 11

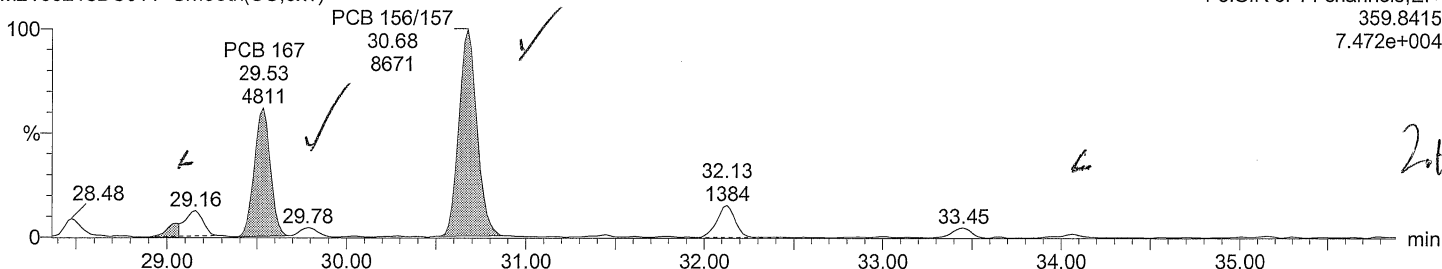
Date: 18-FEB-2016

Time: 02:49:27

Total HxCB F6

M2160218DS011 Smooth(SG,3x1)

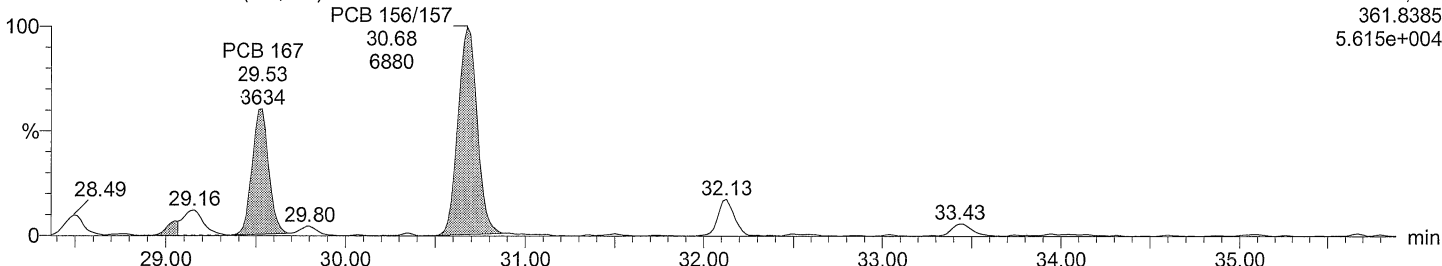
F6:SIR of 14 channels, EI+
359.8415
7.472e+004



Total HxCB F6

M2160218DS011 Smooth(SG,3x1)

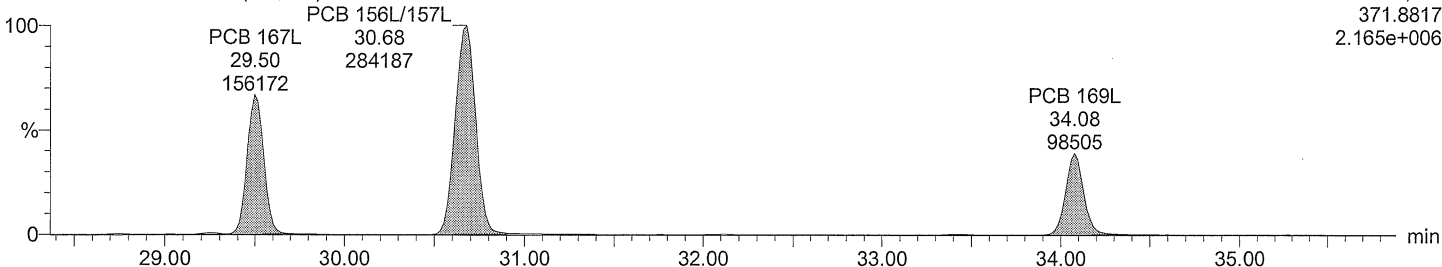
F6:SIR of 14 channels, EI+
361.8385
5.615e+004



Total HxCB labeled F6

M2160218DS011 Smooth(SG,3x1)

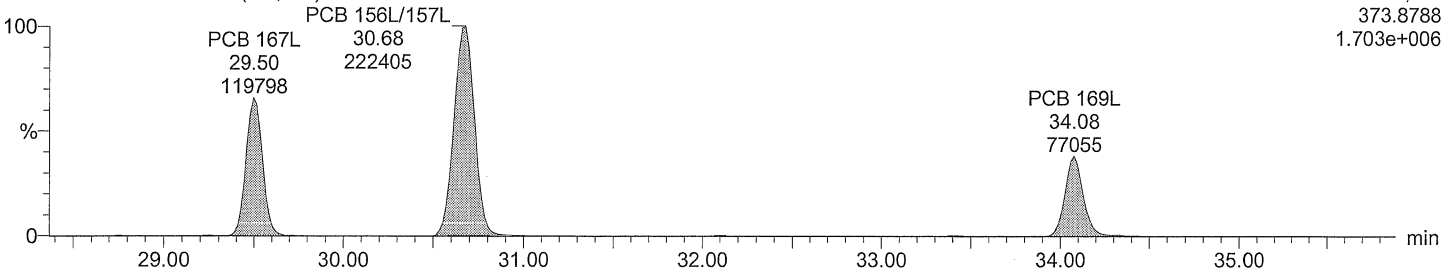
F6:SIR of 14 channels, EI+
371.8817
2.165e+006



Total HxCB labeled F6

M2160218DS011 Smooth(SG,3x1)

F6:SIR of 14 channels, EI+
373.8788
1.703e+006



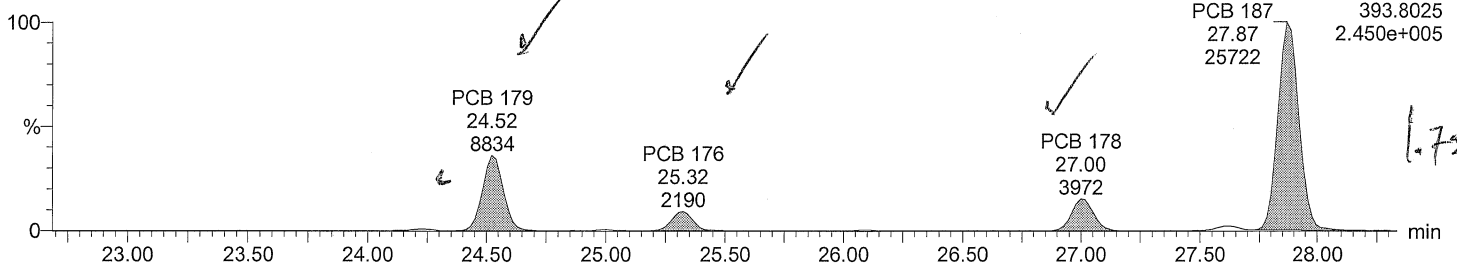
Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time
Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti
Description: BRP511-01R
Vial: 11
Date: 18-FEB-2016
Time: 02:49:27

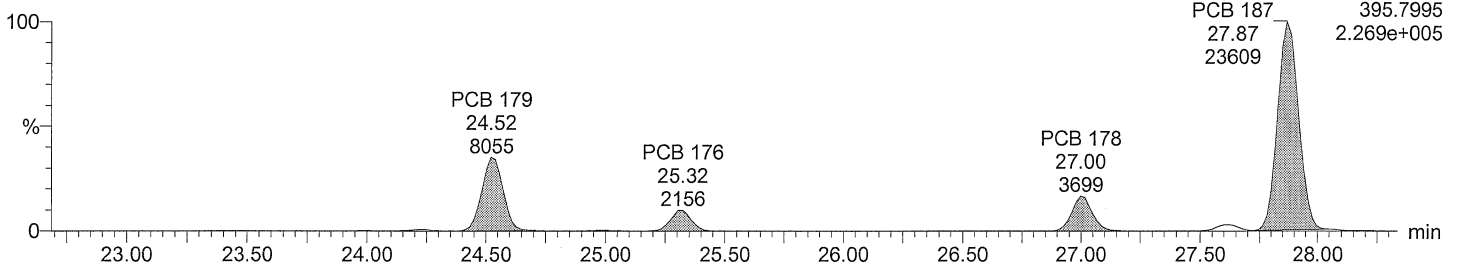
Total HpCB F5

M2160218DS011 Smooth(SG,3x1)



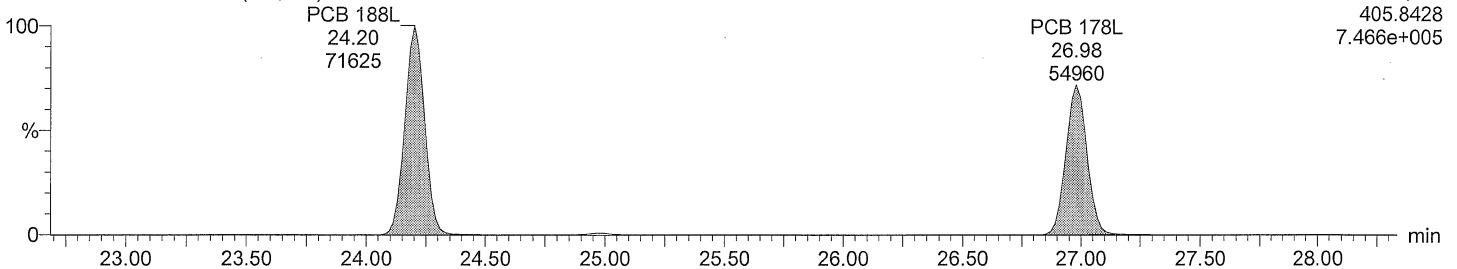
Total HpCB F5

M2160218DS011 Smooth(SG,3x1)



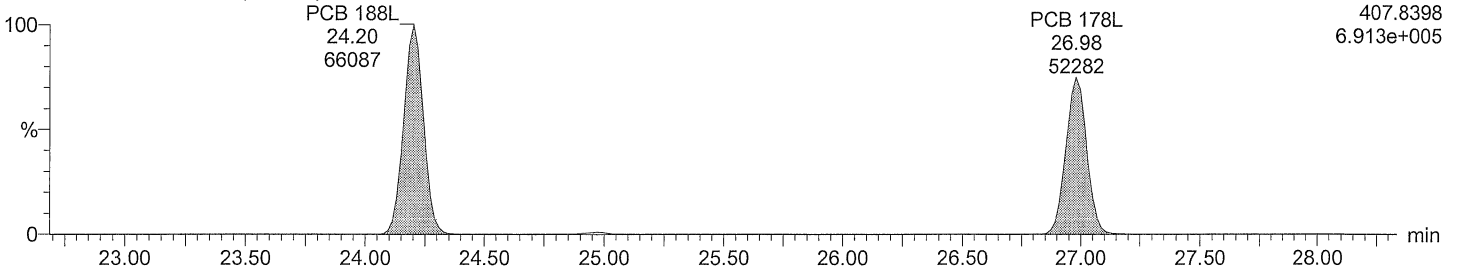
Total HpCB labeled F5

M2160218DS011 Smooth(SG,3x1)



Total HpCB labeled F5

M2160218DS011 Smooth(SG,3x1)



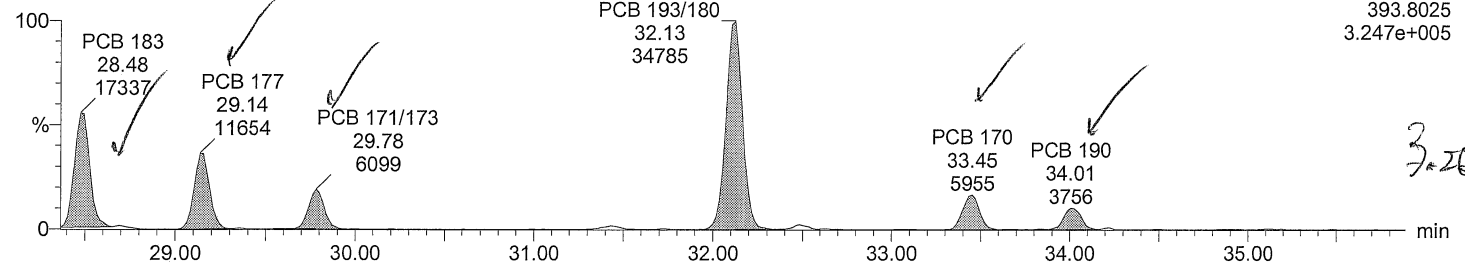
Dataset: C:\MassLynx\Default.pro\M2160218D_\M2160218D_samples_1668A.qld

Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time
Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti
Description: BRP511-01R
Vial: 11
Date: 18-FEB-2016
Time: 02:49:27

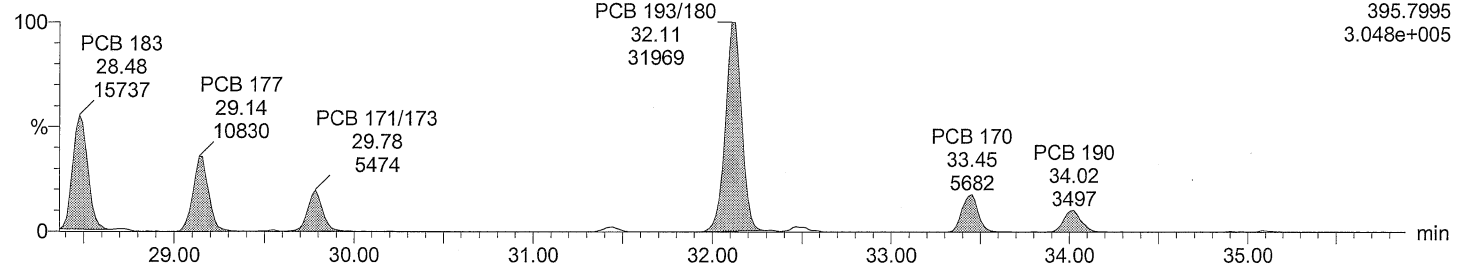
Total HpCB F6

M2160218DS011 Smooth(SG,1x1)



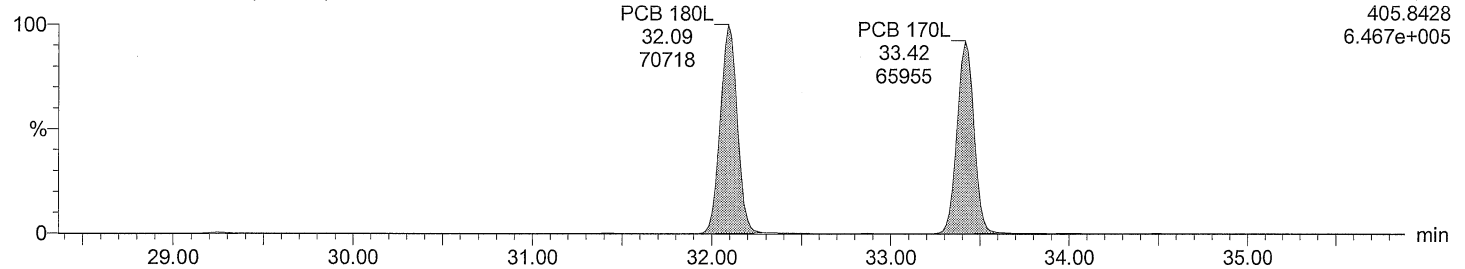
Total HpCB F6

M2160218DS011 Smooth(SG,1x1)



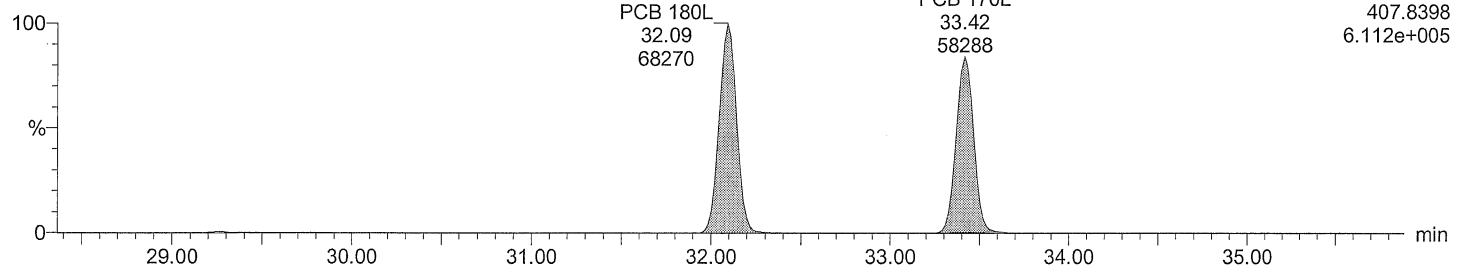
Total HpCB labeled F6

M2160218DS011 Smooth(SG,3x1)



Total HpCB labeled F6

M2160218DS011 Smooth(SG,3x1)



Dataset: C:\MassLynx\Default.pro\M2160218D_M2160218D_samples_1668A.qld

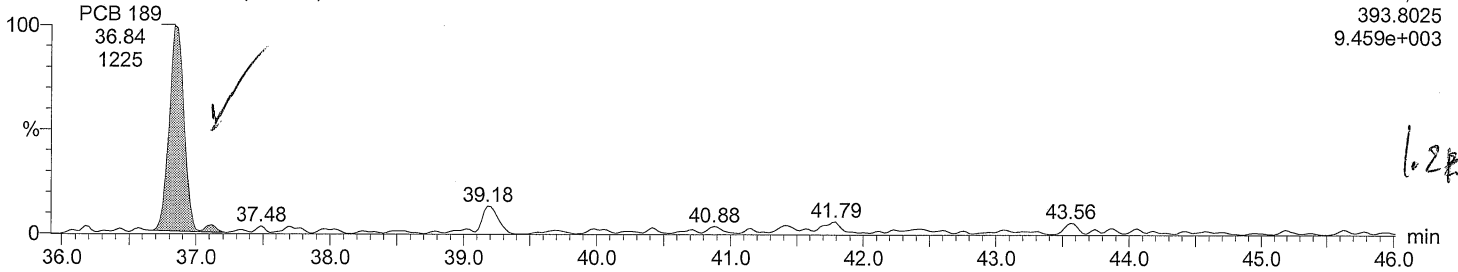
Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time
Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti
Description: BRP511-01R
Vial: 11
Date: 18-FEB-2016
Time: 02:49:27

Total HpCB F7

M2160218DS011 Smooth(SG,3x1)

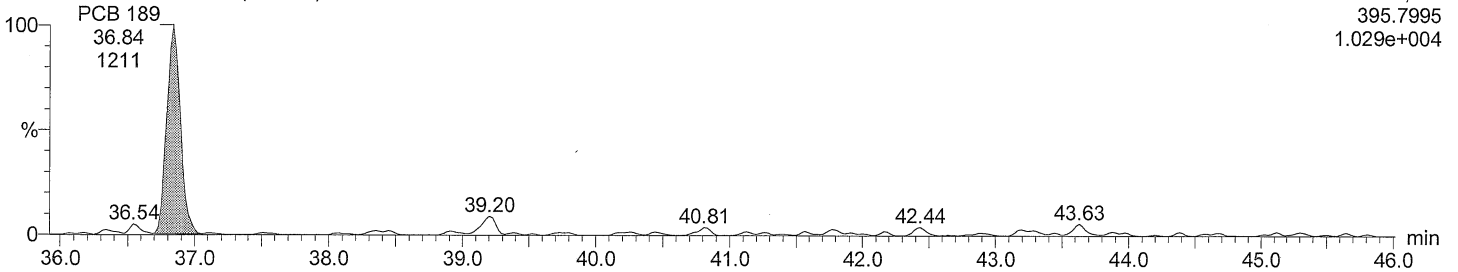
F7:SIR of 18 channels, EI+
393.8025
9.459e+003



Total HpCB F7

M2160218DS011 Smooth(SG,3x1)

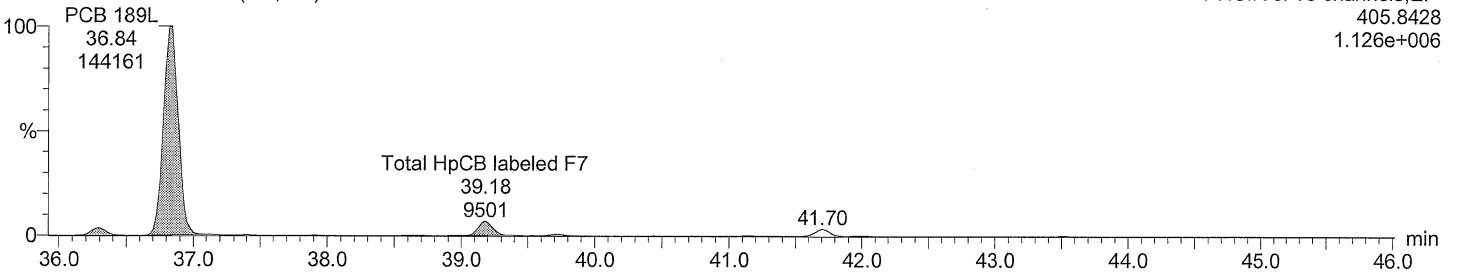
F7:SIR of 18 channels, EI+
395.7995
1.029e+004



Total HpCB labeled F7

M2160218DS011 Smooth(SG,3x1)

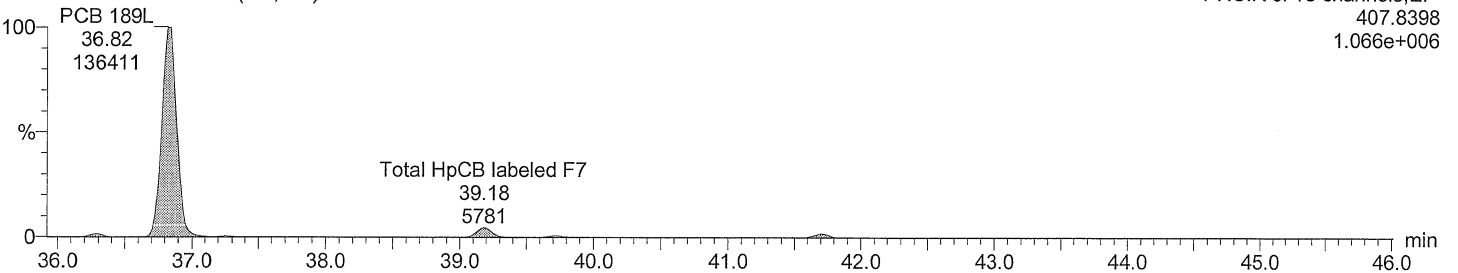
F7:SIR of 18 channels, EI+
405.8428
1.126e+006



Total HpCB labeled F7

M2160218DS011 Smooth(SG,3x1)

F7:SIR of 18 channels, EI+
407.8398
1.066e+006



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

Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time

Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

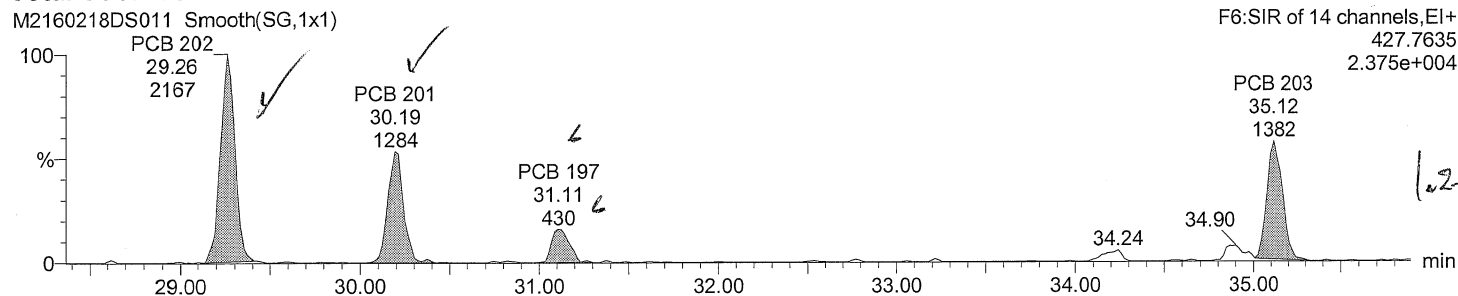
Description: BRP511-01R

Vial: 11

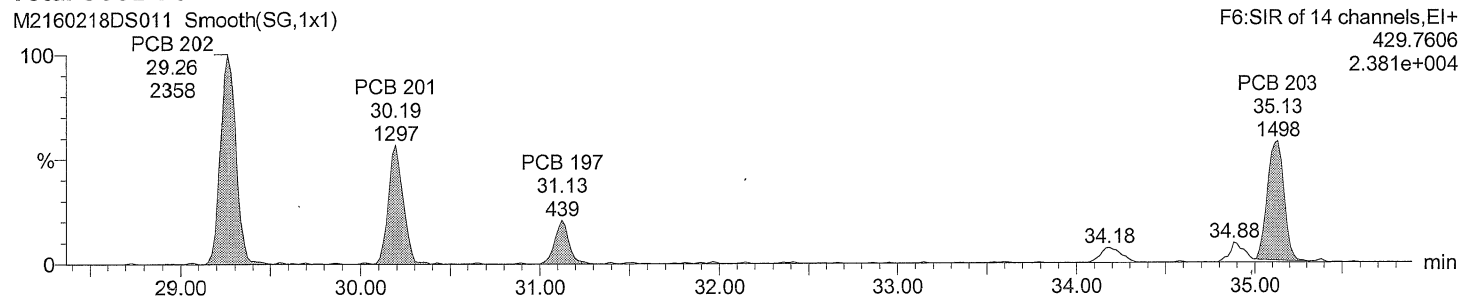
Date: 18-FEB-2016

Time: 02:49:27

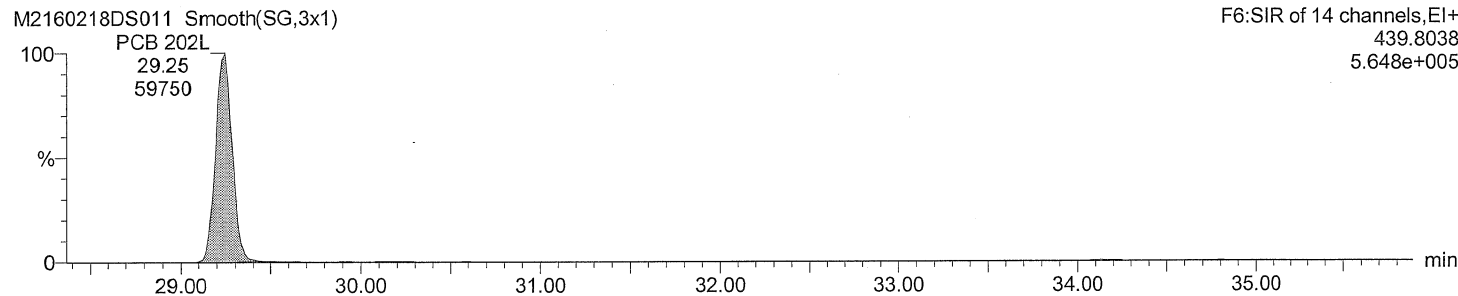
Total OcCB F6



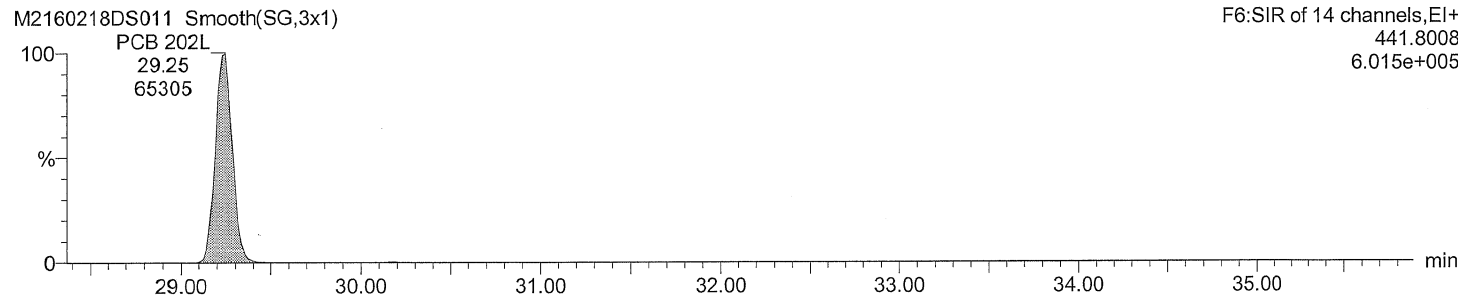
Total OcCB F6



Total OcCB labeled F6



Total OcCB labeled F6



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

Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time

Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

Description: BRP511-01R

Vial: 11

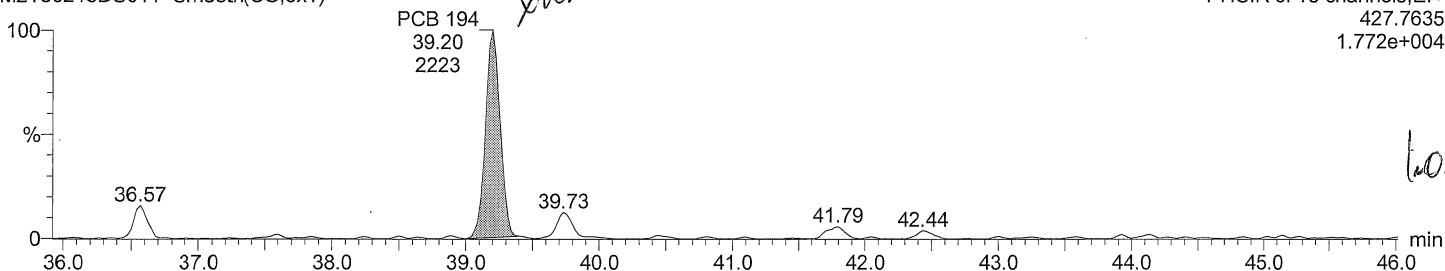
Date: 18-FEB-2016

Time: 02:49:27

Total OccCB F7

M2160218DS011 Smooth(SG,3x1)

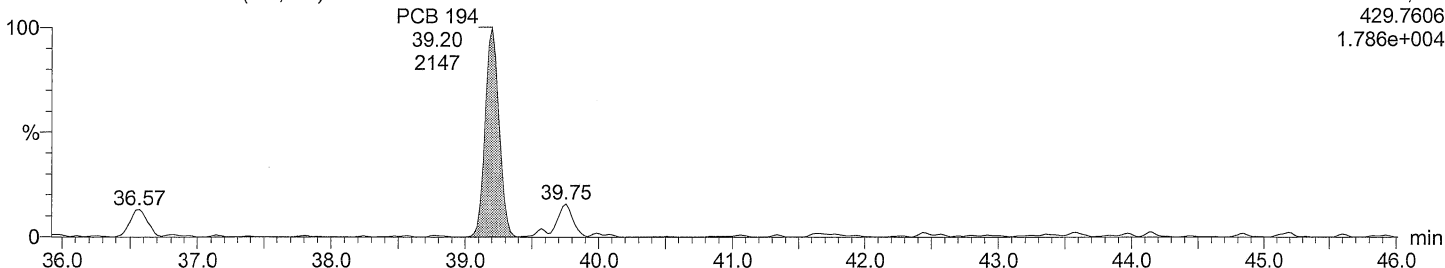
F7:SIR of 18 channels,EI+
427.7635
1.772e+004



Total OccCB F7

M2160218DS011 Smooth(SG,3x1)

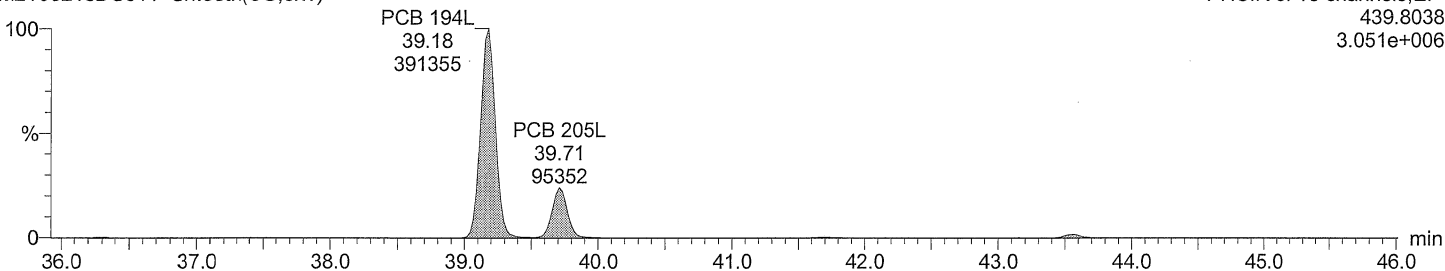
F7:SIR of 18 channels,EI+
429.7606
1.786e+004



Total OccCB labeled F7

M2160218DS011 Smooth(SG,3x1)

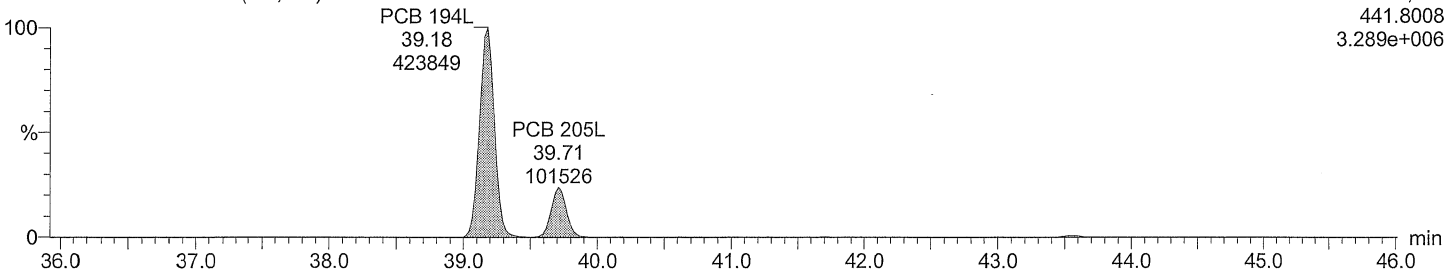
F7:SIR of 18 channels,EI+
439.8038
3.051e+006



Total OccCB labeled F7

M2160218DS011 Smooth(SG,3x1)

F7:SIR of 18 channels,EI+
441.8008
3.289e+006



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

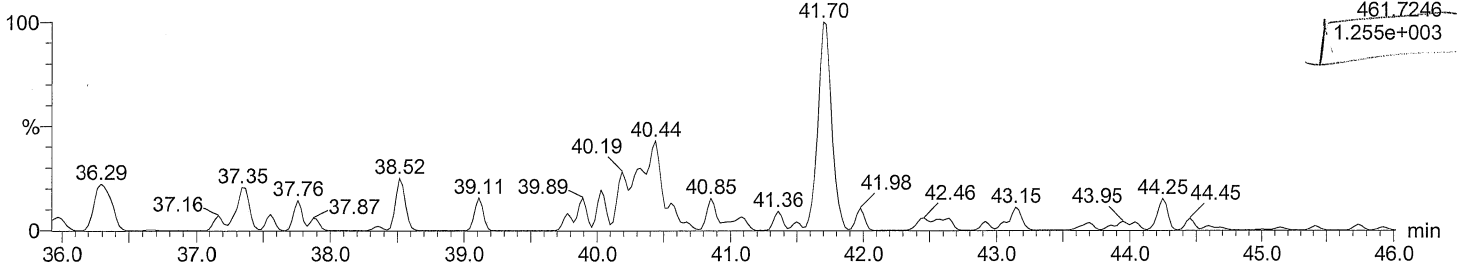
Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time
Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti
Description: BRP511-01R
Vial: 11
Date: 18-FEB-2016
Time: 02:49:27

Total NoCB F7

M2160218DS011 Smooth(SG,3x1)

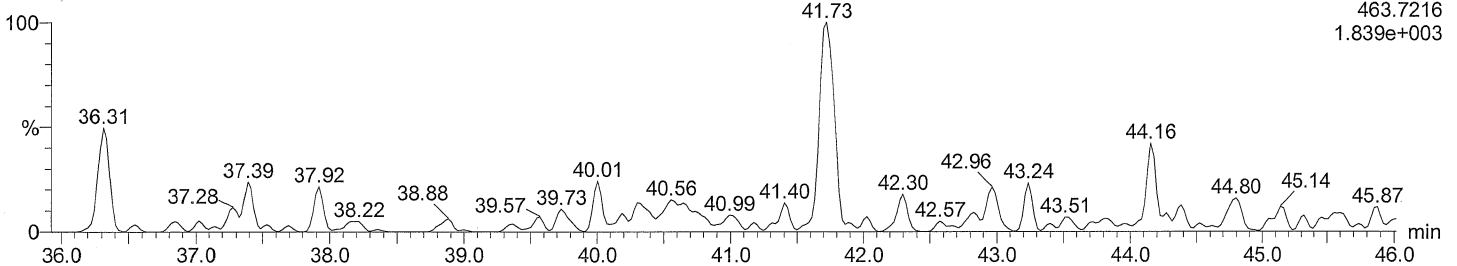
F7:SIR of 18 channels, EI+



Total NoCB F7

M2160218DS011 Smooth(SG,3x1)

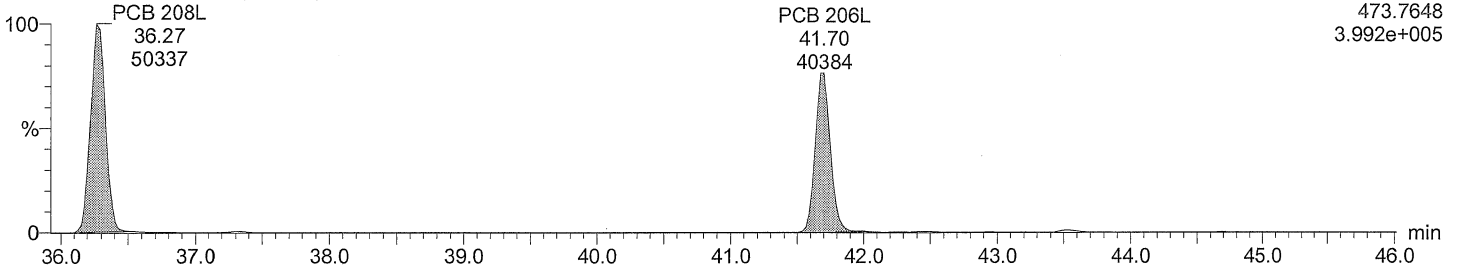
F7:SIR of 18 channels, EI+



Total NoCB labeled F7

M2160218DS011 Smooth(SG,3x1)

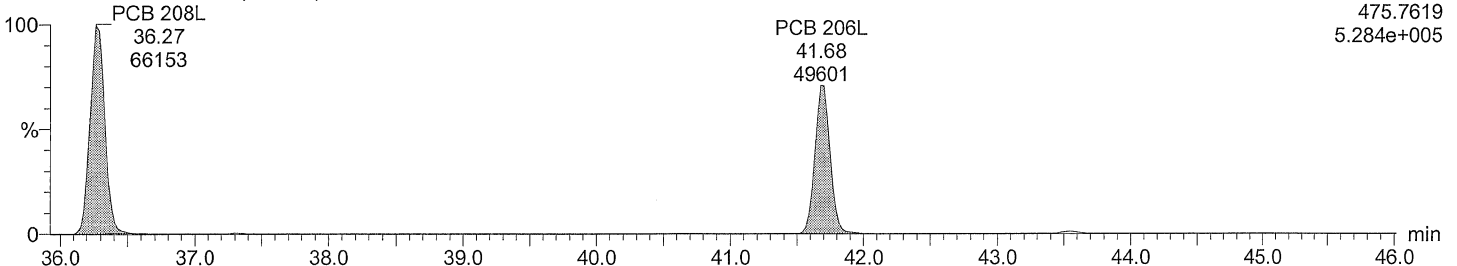
F7:SIR of 18 channels, EI+



Total NoCB labeled F7

M2160218DS011 Smooth(SG,3x1)

F7:SIR of 18 channels, EI+



Acquired Date

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

Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time

Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

Description: BRP511-01R

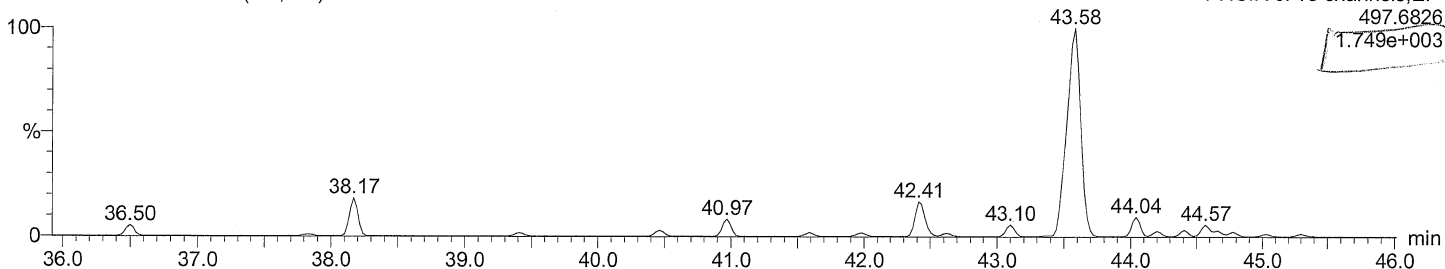
Vial: 11

Date: 18-FEB-2016

Time: 02:49:27

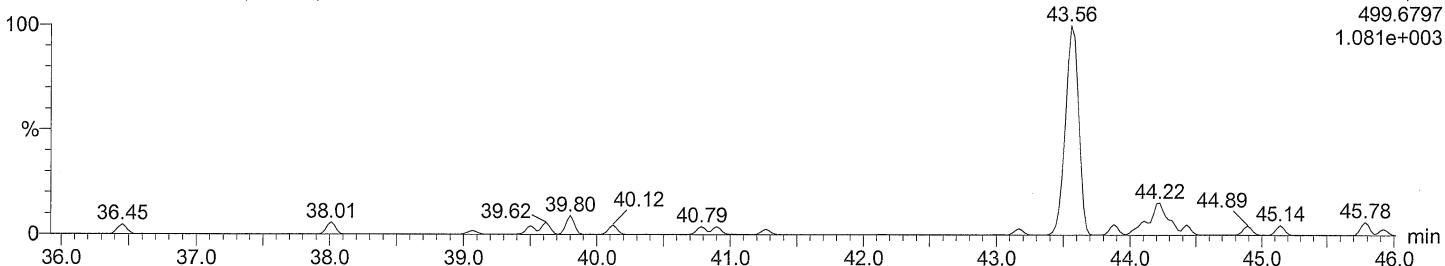
Total DeCB F7

M2160218DS011 Smooth(SG,3x1)



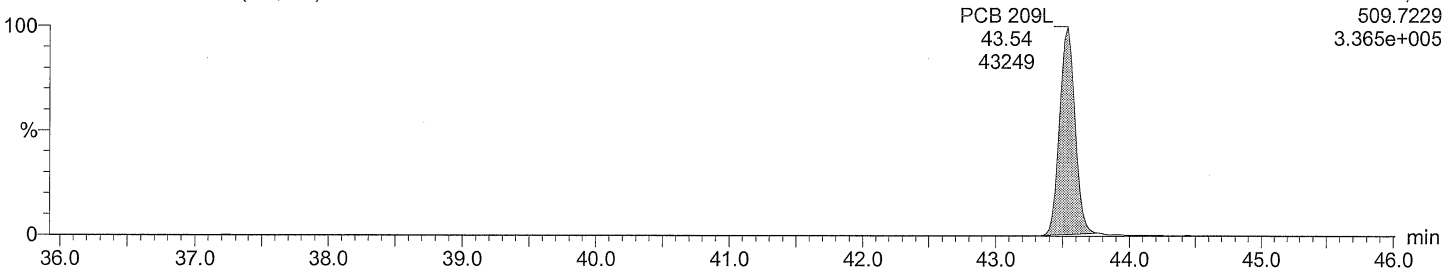
Total DeCB F7

M2160218DS011 Smooth(SG,3x1)



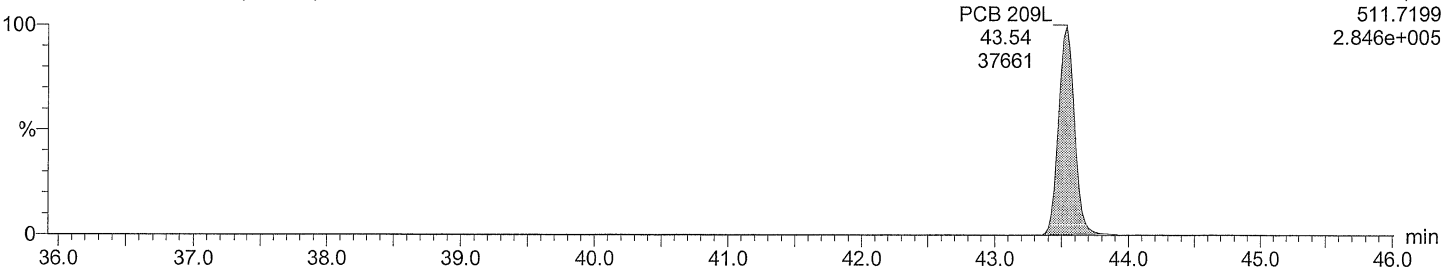
Total DeCB labeled F7

M2160218DS011 Smooth(SG,3x1)



Total DeCB labeled F7

M2160218DS011 Smooth(SG,3x1)



Acquired Date

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

Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time

Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

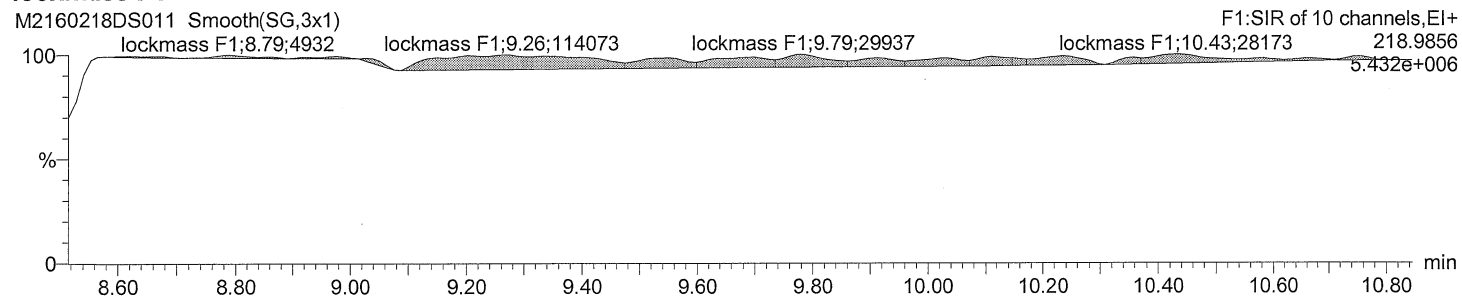
Description: BRP511-01R

Vial: 11

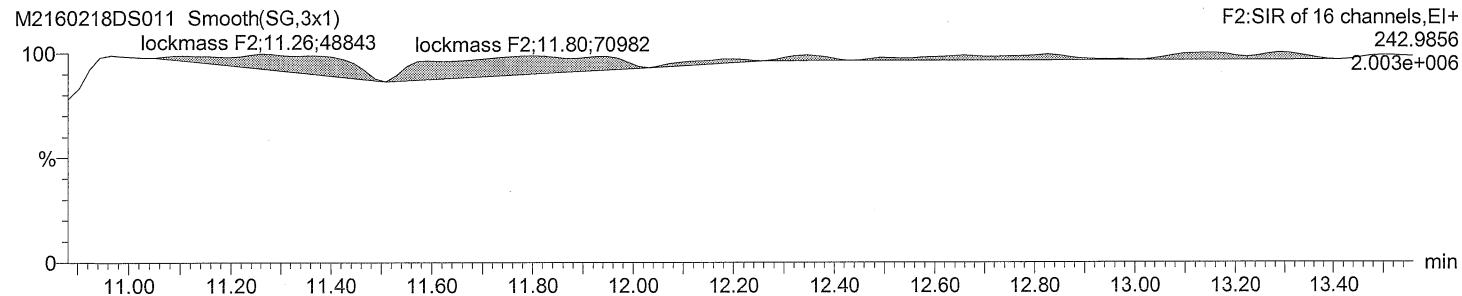
Date: 18-FEB-2016

Time: 02:49:27

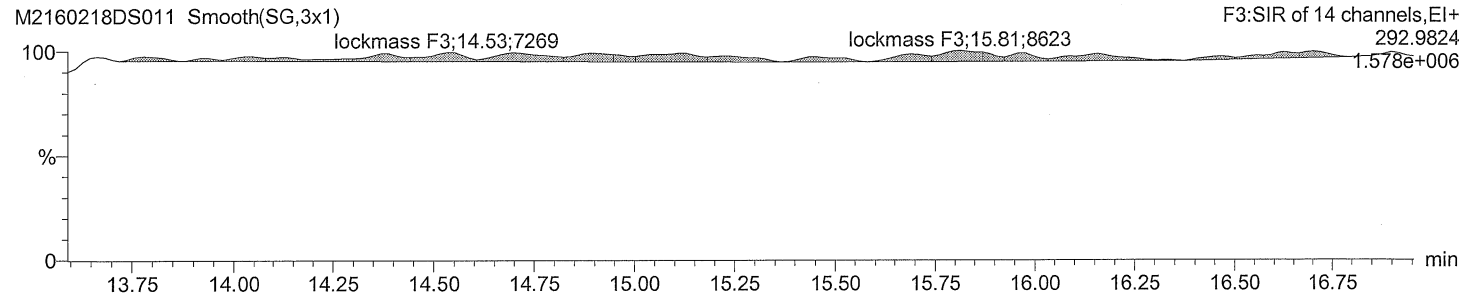
lockmass F1



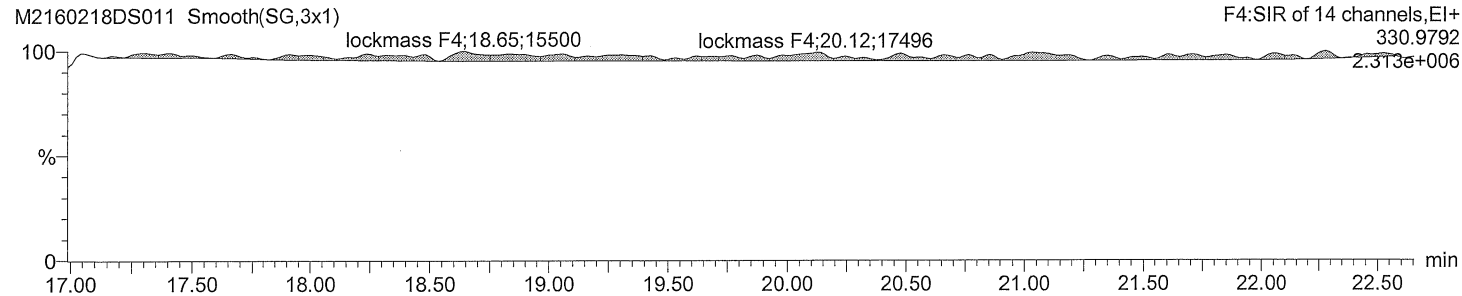
lockmass F2



lockmass F3



lockmass F4



Acquired Date

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

Last Altered: February 20, 2016 02:53:06 PM Eastern Standard Time

Printed: February 20, 2016 02:55:57 PM Eastern Standard Time

ID: Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

Description: BRP511-01R

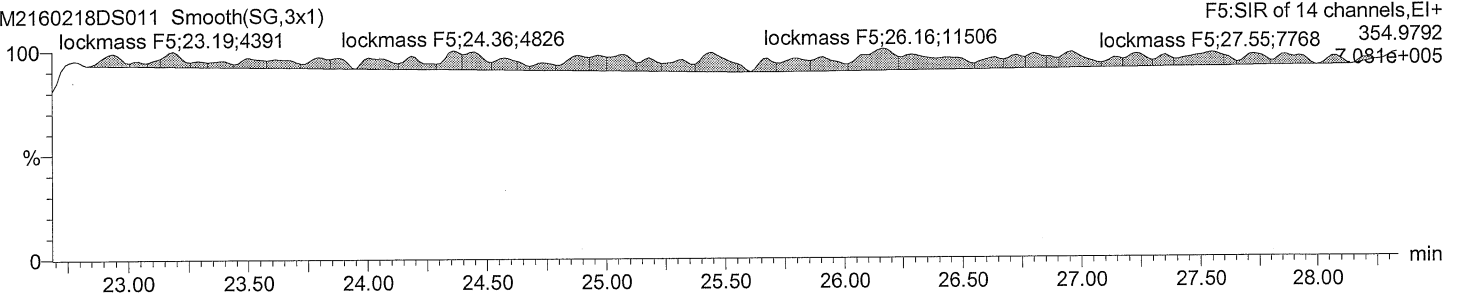
Vial: 11

Date: 18-FEB-2016

Time: 02:49:27

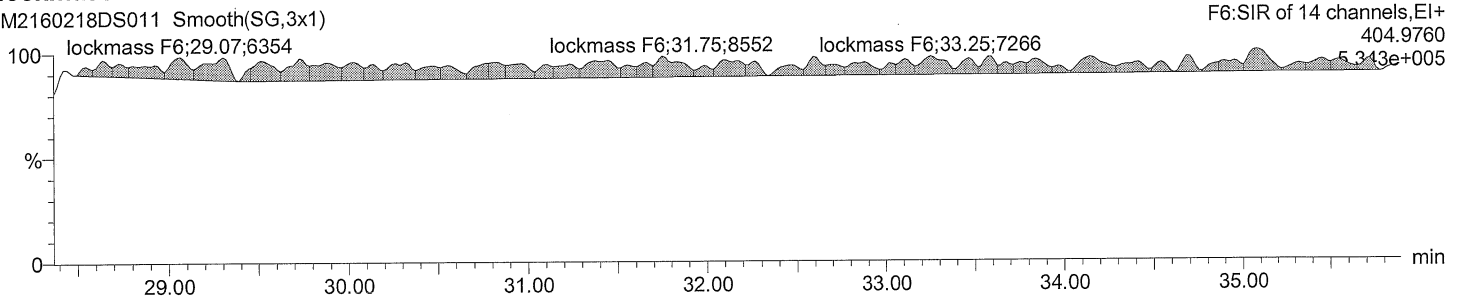
lockmass F5

M2160218DS011 Smooth(SG,3x1)



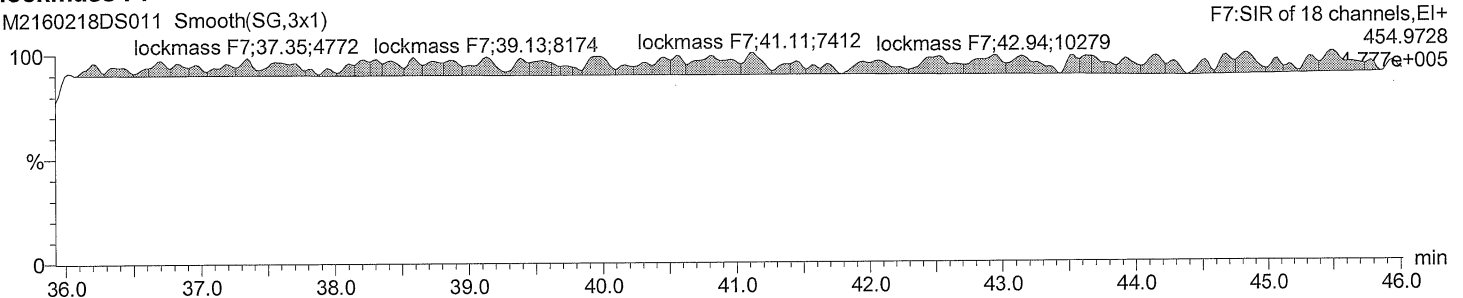
lockmass F6

M2160218DS011 Smooth(SG,3x1)



lockmass F7

M2160218DS011 Smooth(SG,3x1)

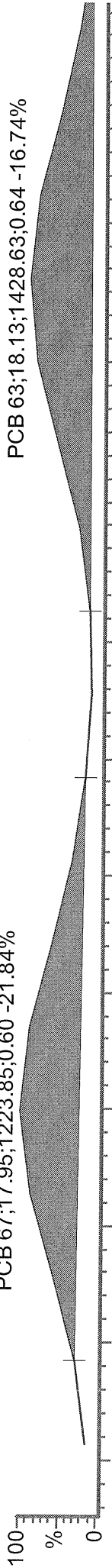


*Below
15.0220
AA*

M2160218DS011 Smooth(SG,3x1)

BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI

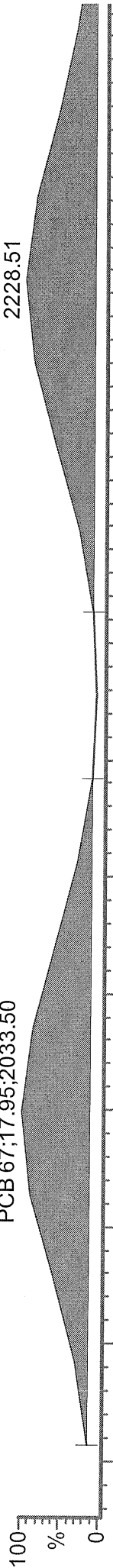
PCB 67;17.95;1223.85;0.60 -21.84%



M2160218DS011 Smooth(SG,3x1)

BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI

PCB 67;17.95;2033.50



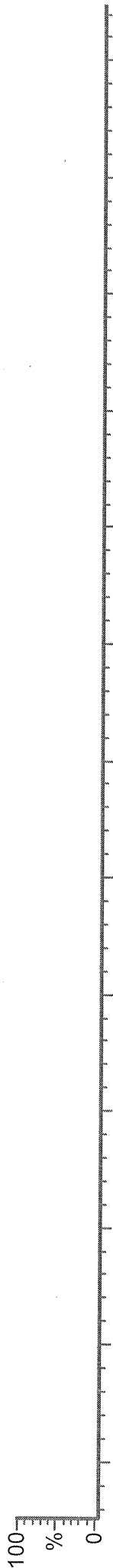
PCB 63

18.13

2228.51

M2160218DS011 Smooth(SG,3x1)

BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI



M2160218DS011 Smooth(SG,3x1)

BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI

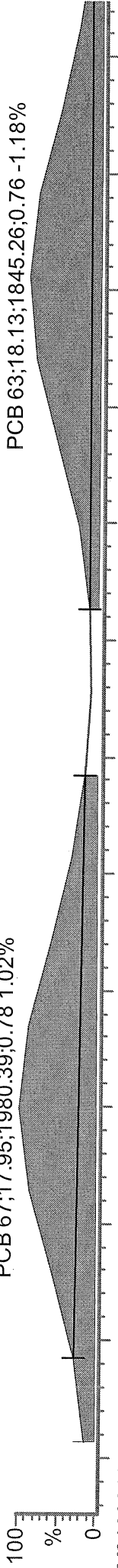
FEB 23 2016

M3 16/02/20 : AH

Maxxam Analytical

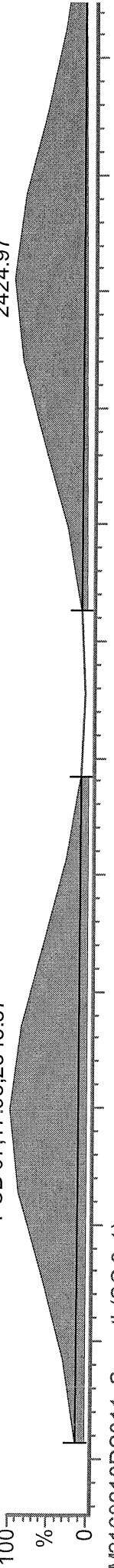
M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

PCB 67;17.95;1980.39;0.78 1.02%



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

PCB 67;17.95;2545.87



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



PCB 63
18.13
2424.97

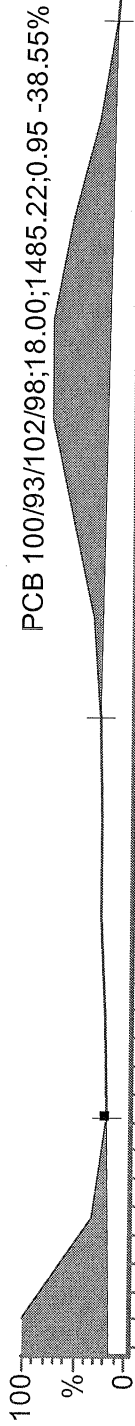
M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



FEB 23 2016

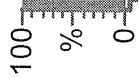
Before
18.02.20
A44

M2160218DS011 Smooth(SG,2x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

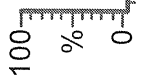


M2160218DS011 Smooth(SG,2x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

PCB 100/93/102/98
17.99
1559.30



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



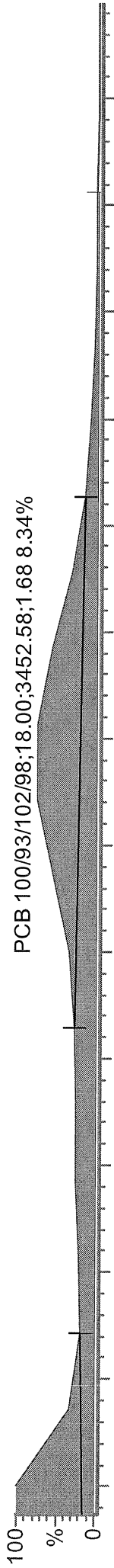
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BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

FEB 23 2016

M3 16/02/20 : AH

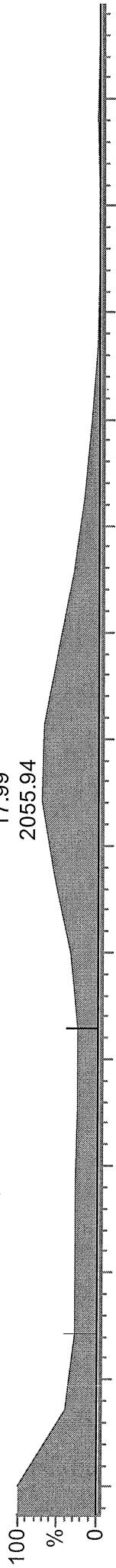
Maxxam Analyt

M2160218DS011 Smooth(SG,2x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



M2160218DS011 Smooth(SG,2x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

PCB 100/93/102/98
17.99
2055.94



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

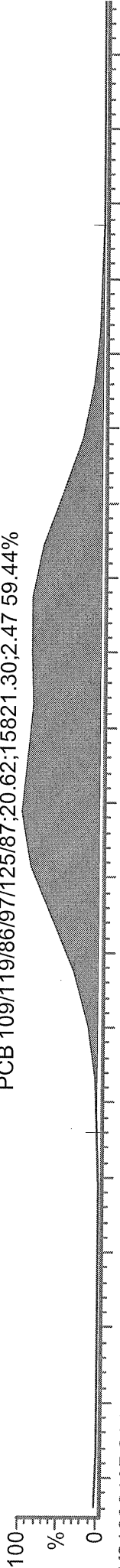
FEB 23 2016

Before

6.02.20
A4 -

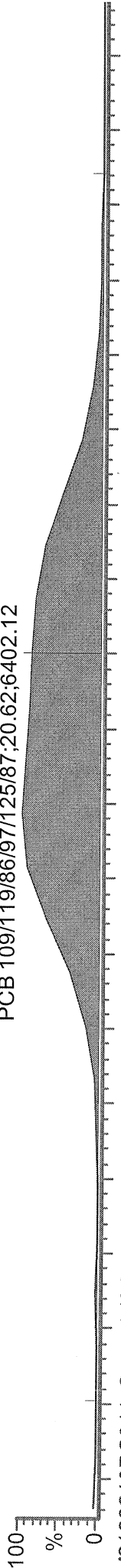
M2160218DS011 Smooth(SG,2x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI

PCB 109/119/86/97/125/87;20.62;15821.30;2.47 59.44%



M2160218DS011 Smooth(SG,2x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI

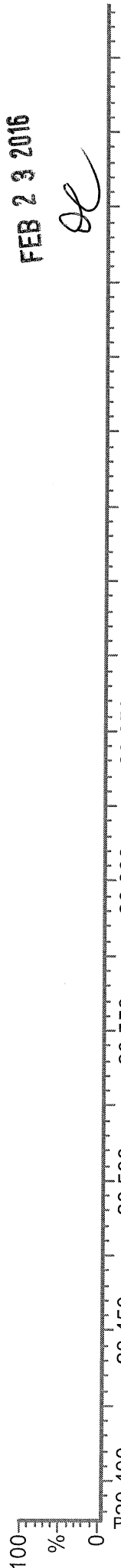
PCB 109/119/86/97/125/87;20.62;6402.12



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI



FEB 23 2016

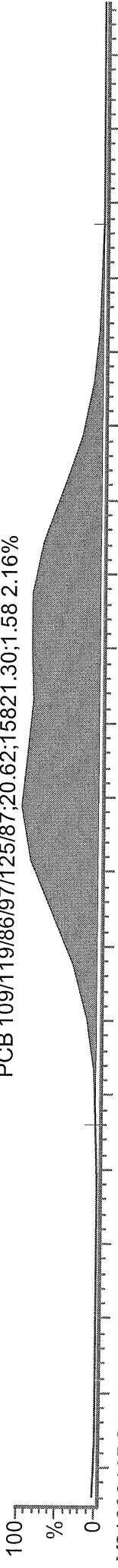
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M3 16/02/20 : AH

Maxxam Analyt

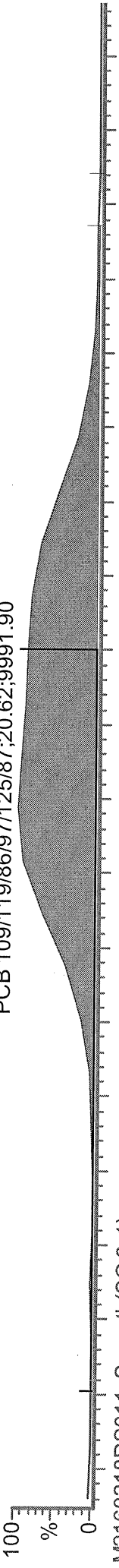
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BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

PCB 109/119/86/97/125/87;20.62;15821.30;1.58 2.16%



M2160218DS011 Smooth(SG,2x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

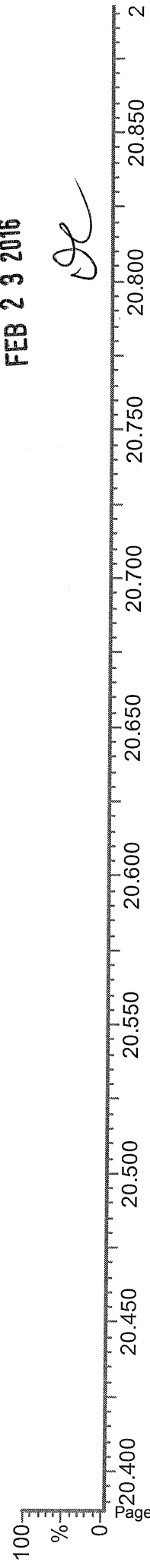
PCB 109/119/86/97/125/87;20.62;9991.90



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

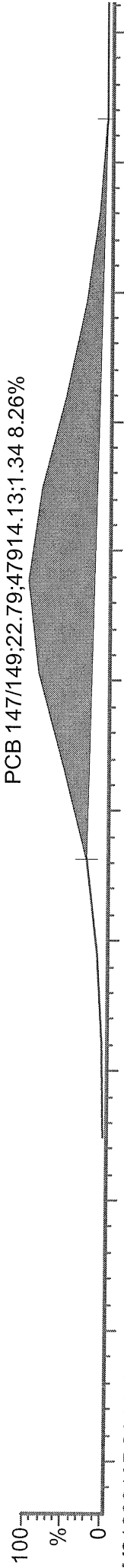
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BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

FEB 23 2016

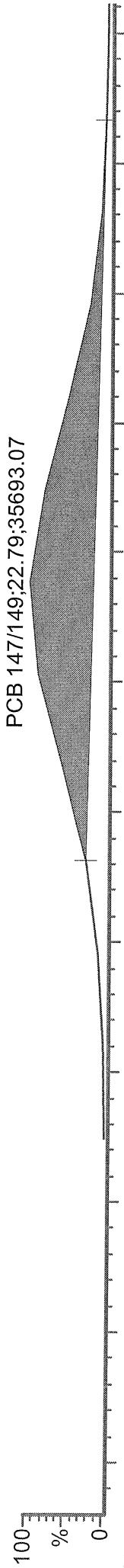


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6-6-20
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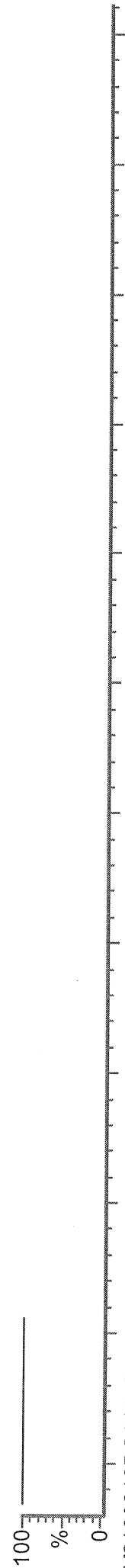
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BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI



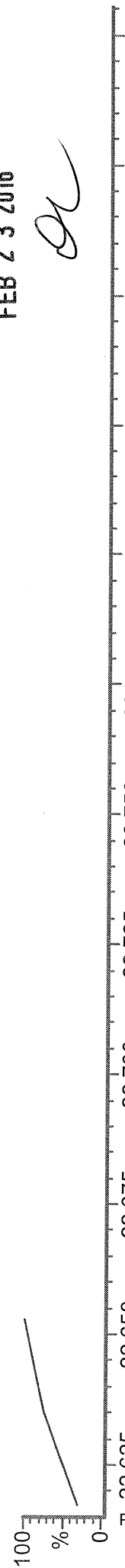
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BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI

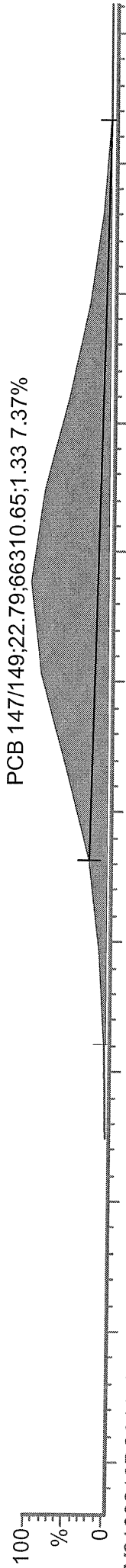


FEB 23 2016

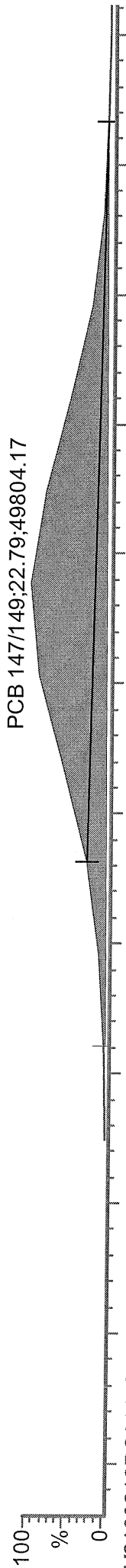
M3 16/02/20 : AH

Maxxam Analy

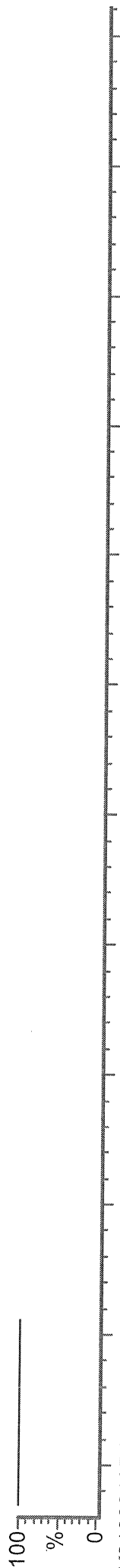
M2160218DS011 Smooth(SG,1x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



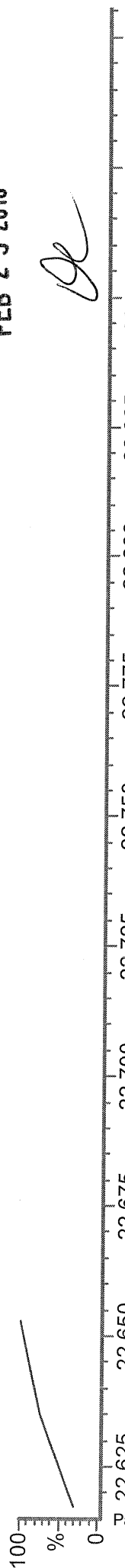
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BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



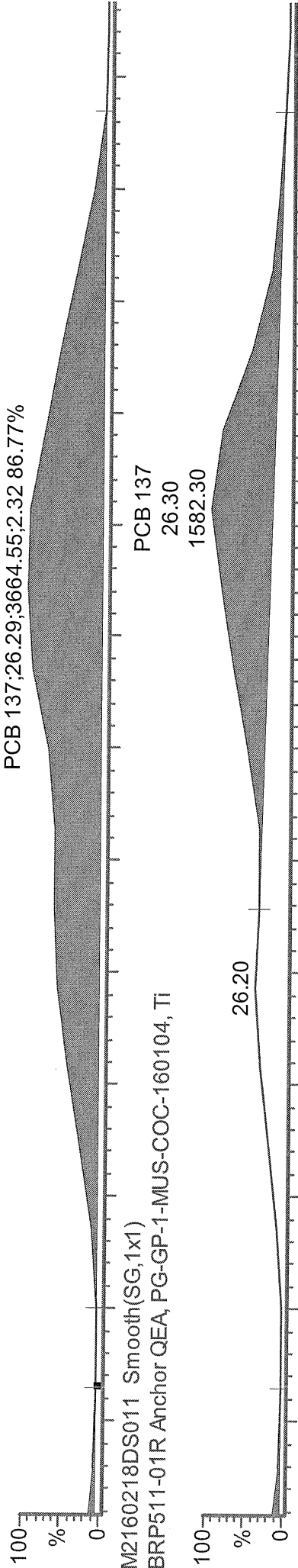
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BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



FEB 23 2016

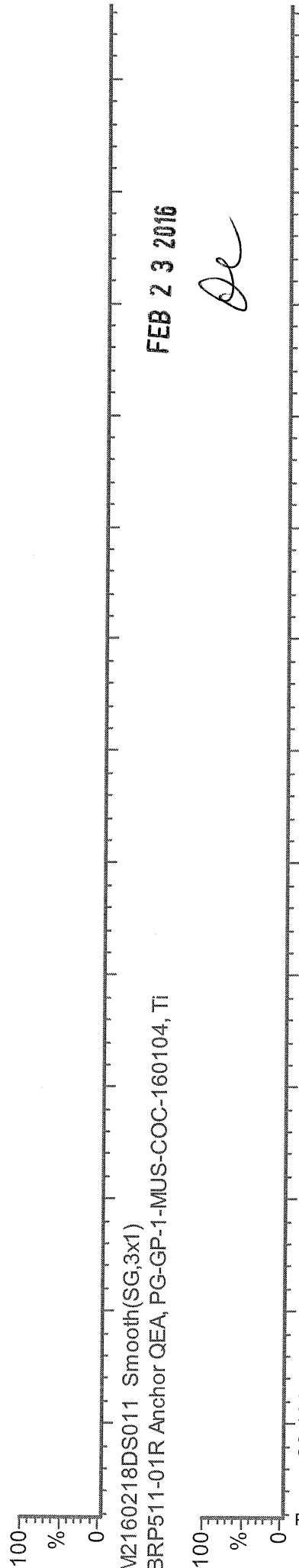
Before
18-02-20
AA-

M2160218DS011 Smooth(SG,1x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



M2160218DS011 Smooth(SG,1x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti



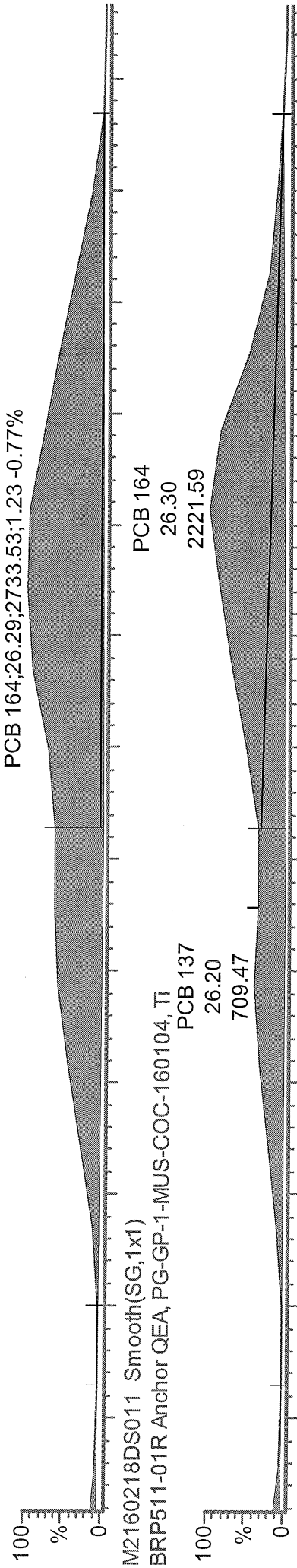
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BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, Ti

FEB 23 2016

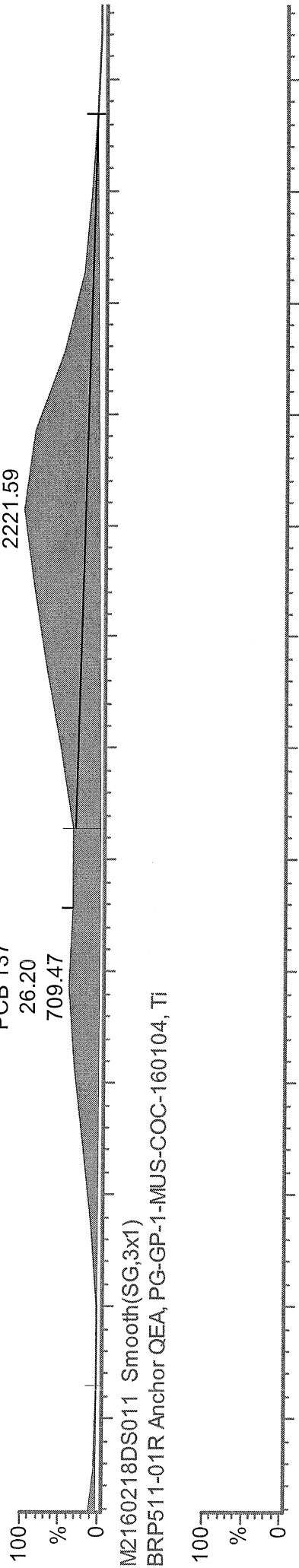
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M2 16/02/20 : AH

M2160218DS011 Smooth(SG,1x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI



M2160218DS011 Smooth(SG,1x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI



M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI

M2160218DS011 Smooth(SG,3x1)
BRP511-01R Anchor QEA, PG-GP-1-MUS-COC-160104, TI

FEB 23 2016

Filename M2160219BS003
 Acquired 19/02/2016 13:47 Call File M2160219_209

Sample ID BRP512-01R
 Comments Anchor QEA, PG-SMA2-5-MUS-COC-16010, TI
 Instrument File Ultima 2
 Sample Size 10.634 Dil Fac 1.00

Name	mass	RT	Area	ratio	Tot Area	ng/g	Code	Isomers	DL	S/N	Mod	rf	Rec
1 PCB 1	188	8.99	894	3.36	1161	-0.0005			-0.0005	*	Op-O	1.082	-
	MoCB 190	8.99	266	no						*			
2 PCB 2	188	10.10	432	2.52	603	-0.00044			-0.00044	*	yes	1.248	-
	MoCB 190	10.09	171	no						*			
3 PCB 3	188	10.18	-1055	3.13	-1392.06	-0.00063	PCB 3 NDR		-0.00051	3	xL	1.079	-
	MoCB 190	10.19	-337.061	OK						42			
4 PCB 4	222	10.30	3568	1.44	6047	0.006193			-0.001	15	yes	0.954	-
	DICB 224	10.29	2480	yes						17			
5 PCB 10	222	10.38	543	1.15	1015	-0.00081			-0.00081	*	yes	1.177	-
	DICB 224	10.38	472	no						*			
6 PCB 9	222	11.19	1984	1.37	3433	0.001227			-0.00101	7	no	1.357	-
	DICB 224	11.19	1449	yes						8			
7 PCB 7	222	11.26	1403	1.77	2196	-0.00119			-0.00119	*	no	1.155	-
	DICB 224	11.25	793	yes						*			
8 PCB 6	222	11.36	6731	1.54	11115	0.004			-0.00102	21	no	1.347	-
	DICB 224	11.35	4383	yes						22			
9 PCB 5	222	NotFnd	*	*	*	-0.00117			-0.00117	*	no	1.169	-
	DICB 224	11.50	*	no						*			
10 PCB 8	222	11.55	30122	1.54	49663	0.018424			-0.00105	82	no	1.307	-
	DICB 224	11.54	19541	yes						91			
11 PCB 14	222	NotFnd	*	*	*	-0.00101			-0.00101	*	no	1.351	-
	DICB 224	12.26	*	no						*			
12 PCB 11	222	12.66	13008	1.56	21363	0.007792			-0.00103	27	no	1.33	-
	DICB 224	12.65	8355	yes						26			
13 PCB 13/12	222	12.78	-3063.84	1.56	-5027.84	-0.00196	PCB 13/12 NDR		-0.0011	8	xL	1.241	-
	DICB 224	12.79	-1964	OK						8			
14 PCB 15	222	12.95	73252	1.63	118295	0.043826			-0.00157	176	no	0.871	-
	DICB 224	12.93	45043	yes						166			
15 PCB 19	256	11.68	4997	1.15	9360	0.010176			-0.00141	39	yes	0.899	-
	TriCB 258	11.68	4363	yes						35			
16 PCB 30/18	256	12.49	54009	1.04	106109	0.052851			-0.00129	406	no	0.976	-
	TriCB 258	12.48	52100	yes						416			
17 PCB 17	256	12.70	13061	1.04	25613	0.015745			-0.0016	81	no	0.79	-
	TriCB 258	12.69	12552	yes						76			
18 PCB 27	256	12.78	10721	1.11	20414	0.008426			-0.00107	85	yes	1.177	-
	TriCB 258	12.79	9692	yes						76			
19 PCB 24	256	12.87	1236	0.9	2610	0.001338			-0.00133	12	yes	0.948	-
	TriCB 258	12.87	1374	yes						12			
20 PCB 16	256	12.91	17473	1	34993	0.021436			-0.00159	129	yes	0.793	-
	TriCB 258	12.90	17520	yes						127			
21 PCB 32	256	13.14	23806	1.07	46005	0.01674			-0.00095	156	no	1.335	-
	TriCB 258	13.14	22199	yes						157			
22 PCB 34	256	13.74	1479	0.96	3016	0.000987			-0.00067	5	yes	1.484	-
	TriCB 258	13.73	1536	yes						6			
23 PCB 23	256	13.83	505	0.95	1037	-0.00069			-0.00069	*	yes	1.446	-
	TriCB 258	13.82	532	yes						*			
24 PCB 26/29	256	13.97	49571	1.05	96865	0.029163			-0.00062	170	no	1.614	-
	TriCB 258	13.99	47295	yes						171			
25 PCB 25	256	14.10	24266	1.04	47688	0.013356			-0.00058	81	no	1.735	-
	TriCB 258	14.11	23422	yes						83			
26 PCB 31	256	14.26	257396	1.03	506101	0.134044			-0.00055	916	no	1.835	-
	TriCB 258	14.28	248705	yes						922			
27 PCB 28/20	256	14.42	662644	1.03	1306060	0.375852			-0.00059	2291	no	1.688	-
	TriCB 258	14.45	643415	yes						2275			
28 PCB 21/33	256	14.55	122298	1.04	239713	0.068143			-0.00059	397	no	1.709	-
	TriCB 258	14.55	117415	yes						395			
29 PCB 22	256	14.77	105560	1.01	210057	0.063852			-0.00063	343	no	1.599	-
	TriCB 258	14.78	104498	yes						348			
30 PCB 36	256	NotFnd	*	*	*	-0.00054			-0.00054	*	no	1.858	-
	TriCB 258	15.62	*	no						*			
31 PCB 39	256	15.83	4196	0.9	8870	0.002838			-0.00066	14	yes	1.519	-
	TriCB 258	15.82	4674	yes						16			
32 PCB 38	256	NotFnd	*	*	*	-0.00064			-0.00064	*	no	1.574	-
	TriCB 258	16.20	*	no						*			
33 PCB 35	256	16.45	4941	1.04	9694	0.003112			-0.00066	14	no	1.514	-
	TriCB 258	16.47	4752	yes						14			
34 PCB 37	256	16.70	94948	1.05	185730	0.066326			-0.0011	270	no	0.906	-
	TriCB 258	16.72	90782	yes						269			
35 PCB 54	290	13.08	412	1.01	819	-0.00124			-0.00124	*	yes	0.911	-
	TCB 292	13.08	408	no						*			
36 PCB 53/50	290	14.12	29027	0.79	65884	0.043824			-0.00141	129	no	0.77	-
	TCB 292	14.11	36857	yes						124			
37 PCB 45/51	290	14.48	18582	0.85	40504	0.028577			-0.0015	78	no	0.725	-
	TCB 292	14.49	21921	yes						71			
38 PCB 46	290	14.64	9352	0.8	21054	0.01784			-0.0018	41	no	0.604	-
	TCB 292	14.64	11702	yes						40			
39 PCB 52	290	15.38	208643	0.8	469595	0.319578			-0.00145	865	no	0.752	-
	TCB 292	15.38	260952	yes						825			
40 PCB 73	290	NotFnd	*	*	*	-0.00109			-0.00109	*	no	1.002	-
	TCB 292	15.43	*	no						*			
41 PCB 43	290	15.53	8817	0.8	19881	0.020282			-0.00217	36	no	0.502	-
	TCB 292	15.50	11065	yes						34			
42 PCB 69/49	290	15.65	93313	0.8	210028	0.12473			-0.00126	370	no	0.862	-
	TCB 292	15.63	116715	yes						366			

43 PCB 48	290	15.83	54049	0.8	121453	0.090979	-0.00159	230	no	0.683	-
	TCB 292	15.84	67404	yes				217			
44 PCB 44/47/65	290	15.96	199393	0.81	446183	0.293028	-0.0014	656	no	0.779	-
	TCB 292	15.97	246790	yes				626			
45 PCB 59/62/75	290	16.16	26339	0.81	58682	0.03056	-0.00111	99	no	0.983	-
	TCB 292	16.16	32342	yes				95			
46 PCB 42	290	16.28	40961	0.78	93251	0.079001	-0.0018	159	no	0.604	-
	TCB 292	16.27	52290	yes				156			
47 PCB 40/41/71	290	16.57	94314	0.79	213842	0.158821	-0.00158	315	no	0.689	-
	TCB 292	16.56	119529	yes				309			
48 PCB 64	290	16.72	58869	0.79	133712	0.076075	-0.00121	229	no	0.9	-
	TCB 292	16.70	74843	yes				224			
49 PCB 72	290	17.20	2741	0.72	6551	0.002658	-0.00086	9	no	1.261	-
	TCB 292	17.20	3810	yes				9			
50 PCB 68	290	17.40	1901	0.73	4507	0.001777	-0.00084	5	no	1.298	-
	TCB 292	17.42	2606	yes				5			
51 PCB 57	290	17.70	1138	0.71	2751	0.000953	-0.00074	6	no	1.477	-
	TCB 292	17.67	1613	yes				6			
52 PCB 58	290	NotFnd	*	*	*	-0.00085	-0.00085	*	no	1.274	-
	TCB 292	17.85	*	no				*			
53 PCB 67	290	17.95	6625	0.79	15053	0.00468	-0.00066	19	no	1.647	-
	TCB 292	17.95	8428	yes				19			
54 PCB 63	290	18.13	6432	0.84	14106	0.004709	-0.00071	19	no	1.533	-
	TCB 292	18.15	7674	yes				18			
55 PCB 61/70/74/76	290	18.36	143320	0.78	327406	0.122081	-0.00079	294	no	1.373	-
	TCB 292	18.36	184086	yes				291			
56 PCB 66	290	18.59	60872	0.8	137159	0.044412	-0.00069	173	no	1.581	-
	TCB 292	18.60	76287	yes				168			
57 PCB 55	290	NotFnd	*	*	*	-0.00089	-0.00089	*	no	1.229	-
	TCB 292	18.72	*	no				*			
58 PCB 56	290	19.06	8397	0.83	18534	0.00741	-0.00085	24	no	1.28	-
	TCB 292	19.07	10137	yes				22			
59 PCB 60	290	19.23	7397	0.77	17016	0.00688	-0.00086	21	no	1.266	-
	TCB 292	19.24	9619	yes				20			
60 PCB 80	290	NotFnd	*	*	*	-0.00068	-0.00068	*	no	1.596	-
	TCB 292	19.50	*	no				*			
61 PCB 79	290	20.66	1267	0.88	2709	0.000818	-0.00064	5	yes	1.695	-
	TCB 292	20.63	1443	yes				4			
62 PCB 78	290	NotFnd	*	*	*	-0.00076	-0.00076	*	no	1.435	-
	TCB 292	21.08	*	no				*			
63 PCB 81	290	21.41	321	0.64	822	-0.00106	-0.00106	*	yes	1.027	-
	TCB 292	21.45	501	no				*			
64 PCB 77	290	21.89	3070	0.8	6918	0.00282	-0.00101	8	no	1.077	-
	TCB 292	21.89	3848	yes				8			
65 PCB 104	326	NotFnd	*	*	*	-0.00103	-0.00103	*	no	1.094	-
	PeCB 328	15.94	*	no				*			
66 PCB 96	326	16.18	2452	1.63	3957	0.002426	-0.00141	8	no	0.802	-
	PeCB 328	16.15	1504	yes				7			
67 PCB 103	326	17.33	2811	1.62	4552	0.003134	-0.00108	10	no	0.714	-
	PeCB 328	17.31	1741	yes				9			
68 PCB 94	326	17.47	1205	1.74	1899	0.001793	-0.00147	4	no	0.521	-
	PeCB 328	17.47	694	yes				4			
69 PCB 95	326	17.77	93674	1.66	150043	0.115055	-0.0012	313	no	0.641	-
	PeCB 328	17.76	56369	yes				288			
70 PCB 100/93/102/98	326	18.00	8773	1.61	14221	0.0125	-0.00137	18	no	0.559	-
	PeCB 328	17.91	5448	yes				18			
71 PCB 88/91	326	18.36	7933	1.64	12762	0.011001	-0.00135	25	no	0.57	-
	PeCB 328	18.33	4829	yes				23			
72 PCB 84	326	18.52	8027	1.65	12877	0.012885	-0.00156	25	no	0.491	-
	PeCB 328	18.49	4850	yes				23			
73 PCB 89	326	18.84	312	1.65	501	-0.00142	-0.00142	*	yes	0.541	-
	PeCB 328	18.84	189	yes				*			
74 PCB 121	326	NotFnd	*	*	*	-0.00105	-0.00105	*	no	0.733	-
	PeCB 328	19.08	*	no				*			
75 PCB 92	326	19.36	18108	1.66	29038	0.024486	-0.00132	56	no	0.583	-
	PeCB 328	19.35	10930	yes				52			
76 PCB 113/90/101	326	19.78	141503	1.64	227704	0.164882	-0.00113	431	no	0.679	-
	PeCB 328	19.76	86202	yes				413			
77 PCB 83/99	326	20.23	54781	1.64	88177	0.083683	-0.00148	159	no	0.518	-
	PeCB 328	20.22	33397	yes				152			
78 PCB 112	326	NotFnd	*	*	*	-0.00093	-0.00093	*	no	0.83	-
	PeCB 328	20.30	*	no				*			
79 PCB 109/119/86/97/125/126	326	20.69	38022	1.64	61243	0.045136	-0.00115	63	no	0.667	-
	PeCB 328	20.62	23221	yes				59			
80 PCB 117/116/85	326	21.19	11665	1.59	18989	0.013019	-0.00107	33	no	0.717	-
	PeCB 328	21.19	7323	yes				31			
81 PCB 110/115	326	21.32	90659	1.65	145756	0.106779	-0.00114	259	no	0.671	-
	PeCB 328	21.32	55097	yes				242			
82 PCB 82	326	21.58	3495	1.75	5491	0.005253	-0.00149	10	yes	0.514	-
	PeCB 328	21.59	1996	yes				9			
83 PCB 111	326	NotFnd	*	*	*	-0.00103	-0.00103	*	no	0.749	-
	PeCB 328	21.85	*	no				*			
84 PCB 120	326	22.24	847	2.11	1249	-0.0009	-0.0009	*	yes	0.853	-
	PeCB 328	22.25	401	no				*			
85 PCB 108/124	326	23.20	4977	1.59	8111	0.003187	-0.00077	11	no	1.251	-
	PeCB 328	23.21	3134	yes				11			
86 PCB 107	326	23.42	12515	1.6	20342	0.00761	-0.00073	24	no	1.314	-
	PeCB 328	23.40	7827	yes				24			
87 PCB 123	326	23.53	1100	1.13	2074	-0.00107	-0.00107	*	no	0.894	-
	PeCB 328	23.51	974	no				*			
88 PCB 106	326	NotFnd	*	*	*	-0.0007	-0.0007	*	no	1.375	-
	PeCB 328	23.63	*	no				*			
89 PCB 118	326	23.79	147935	1.59	241096	0.107639	-0.00098	307	no	0.981	-
	PeCB 328	23.80	93161	yes				305			

90	PCB 122	326	24.10	1523	1.94	2310	-0.00079	-0.00079	*	Op-O	1.222	-
		PeCB 328	24.08	787	no				*			
91	PCB 114	326	24.27	2786	1.71	4411	0.001995	-0.00095	5	no	1.01	-
		PeCB 328	24.28	1625	yes				5			
92	PCB 105	326	24.84	45961	1.59	74873	0.034095	-0.00098	95	no	0.977	-
		PeCB 328	24.85	28912	yes				93			
93	PCB 127	326	NotFnd	*	*	*	-0.00071	-0.00071	*	no	1.348	-
		PeCB 328	26.20	*	no				*			
94	PCB 126	326	27.75	863	1.58	1412	-0.00098	-0.00098	*	yes	0.977	-
		PeCB 328	27.72	548	yes				*			
95	PCB 155	360	NotFnd	*	*	*	-0.00066	-0.00066	*	no	0.997	-
		HxCB 362	19.63	*	no				*			
96	PCB 152	360	NotFnd	*	*	*	-0.00098	-0.00098	*	no	0.675	-
		HxCB 362	19.78	*	no				*			
97	PCB 150	360	19.91	595	1.36	1033	-0.00103	-0.00103	*	yes	0.639	-
		HxCB 362	19.88	438	yes				*			
98	PCB 136	360	20.18	24129	1.37	41680	0.034899	-0.00098	134	no	0.672	-
		HxCB 362	20.18	17551	yes				120			
99	PCB 145	360	NotFnd	*	*	*	-0.00114	-0.00114	*	no	0.579	-
		HxCB 362	20.41	*	no				*			
100	PCB 148	360	21.55	604	1.4	1035	-0.00136	-0.00136	*	yes	0.487	-
		HxCB 362	21.55	431	yes				*			
101	PCB 151/135	360	22.05	61852	1.28	110149	0.137525	-0.00147	273	yes	0.451	-
		HxCB 362	22.04	48297	yes				264			
102	PCB 154	360	22.24	3307	1.32	5818	0.006019	-0.00121	19	yes	0.544	-
		HxCB 362	22.21	2511	yes				17			
103	PCB 144	360	22.51	9111	1.22	16565	0.019307	-0.00137	49	yes	0.483	-
		HxCB 362	22.51	7453	yes				48			
104	PCB 147/149	360	22.80	209408	1.32	368564	0.32055	-0.0013	840	yes	0.647	-
		HxCB 362	22.80	159156	yes				806			
105	PCB 134/143	360	22.99	7643	1.27	13652	0.01365	-0.00149	28	yes	0.563	-
		HxCB 362	23.06	6009	yes				29			
106	PCB 139/140	360	23.31	1899	1.41	3242	0.002856	-0.00131	7	no	0.639	-
		HxCB 362	23.31	1343	yes				7			
107	PCB 131	360	23.49	1029	1.21	1881	0.002063	-0.00164	4	no	0.513	-
		HxCB 362	23.49	851	yes				4			
108	PCB 142	360	NotFnd	*	*	*	-0.00144	-0.00144	*	no	0.583	-
		HxCB 362	23.65	*	no				*			
109	PCB 132	360	23.88	27836	1.33	48785	0.052514	-0.0016	106	no	0.523	-
		HxCB 362	23.88	20949	yes				103			
110	PCB 133	360	24.31	3234	1.29	5740	0.005186	-0.00135	13	no	0.623	-
		HxCB 362	24.31	2506	yes				13			
111	PCB 165	360	NotFnd	*	*	*	-0.00118	-0.00118	*	no	0.714	-
		HxCB 362	24.68	*	no				*			
112	PCB 146	360	24.88	40411	1.29	71738	0.060837	-0.00127	157	no	0.663	-
		HxCB 362	24.88	31328	yes				149			
113	PCB 161	360	NotFnd	*	*	*	-0.00094	-0.00094	*	no	0.888	-
		HxCB 362	25.03	*	no				*			
114	PCB 153/168	360	25.43	371236	1.29	658432	0.467713	-0.00106	1394	no	0.792	-
		HxCB 362	25.47	287196	yes				1352			
115	PCB 141	360	25.63	9514	1.39	16336	0.014796	-0.00135	36	no	0.621	-
		HxCB 362	25.62	6822	yes				31			
116	PCB 130	360	26.00	7590	1.3	13425	0.013531	-0.0015	27	no	0.558	-
		HxCB 362	26.00	5835	yes				27			
117	PCB 137	360	26.23	1659	1.26	2980	0.002976	-0.00149	9	no	0.563	-
		HxCB 362	26.21	1321	yes				9			
118	PCB 164	360	26.31	8226	1.28	14651	0.009974	-0.00102	29	no	0.826	-
		HxCB 362	26.30	6424	yes				28			
119	PCB 138/163/129	360	26.61	273673	1.3	483794	0.422712	-0.0013	1004	no	0.644	-
		HxCB 362	26.62	210121	yes				952			
120	PCB 160	360	NotFnd	*	*	*	-0.00116	-0.00116	*	no	0.723	-
		HxCB 362	26.80	*	no				*			
121	PCB 158	360	26.98	26909	1.29	47726	0.029465	-0.00092	94	no	0.911	-
		HxCB 362	26.98	20817	yes				90			
122	PCB 128/166	360	27.82	23169	1.25	41690	0.033487	-0.0012	69	no	0.7	-
		HxCB 362	27.80	18522	yes				67			
123	PCB 159	360	NotFnd	*	*	*	-0.00101	-0.00101	*	no	1.379	-
		HxCB 362	28.78	*	no				*			
124	PCB 162	360	29.16	5410	1.22	9845	0.004417	-0.00111	7	no	1.254	-
		HxCB 362	29.07	4436	yes				8			
125	PCB 167	360	29.53	15045	1.37	26001	0.011708	-0.00148	28	no	0.946	-
		HxCB 362	29.55	10956	yes				25			
126	PCB 156/157	360	30.68	29810	1.25	53569	0.024165	-0.00137	51	no	1.017	-
		HxCB 362	30.71	23759	yes				50			
127	PCB 169	360	NotFnd	*	*	*	-0.00147	-0.00147	*	no	0.954	-
		HxCB 362	34.13	*	no				*			
128	PCB 188	394	24.24	224	1.09	430	-0.00064	-0.00064	*	yes	1.012	-
		HpCB 396	24.23	206	yes				*			
129	PCB 179	394	24.54	27947	1.1	53320	0.039309	-0.00064	193	no	1.016	-
		HpCB 396	24.52	25373	yes				181			
130	PCB 184	394	NotFnd	*	*	*	-0.00069	-0.00069	*	no	0.937	-
		HpCB 396	25.00	*	no				*			
131	PCB 176	394	25.33	8149	1.1	15561	0.011742	-0.00065	53	no	0.993	-
		HpCB 396	25.32	7412	yes				52			
132	PCB 186	394	NotFnd	*	*	*	-0.00075	-0.00075	*	no	0.865	-
		HpCB 396	25.75	*	no				*			
133	PCB 178	394	27.02	9693	1.07	18744	0.02046	-0.00094	62	no	0.686	-
		HpCB 396	27.01	9051	yes				61			
134	PCB 175	394	27.62	2133	1.15	3983	0.004287	-0.00093	14	no	0.696	-
		HpCB 396	27.62	1851	yes				13			
135	PCB 187	394	27.89	71105	1.07	137311	0.152817	-0.00096	453	no	0.673	-
		HpCB 396	27.88	66206	yes				443			
136	PCB 182	394	NotFnd	*	*	*	-0.00096	-0.00096	*	no	0.674	-
		HpCB 396	28.10	*	no				*			

137 PCB 183	394	28.50	47588	1.13	89841	0.058342	-0.00109	166	no	1.153	-
	HpCB 396	28.51	42253	yes			-0.00156	156	no	0.805	-
138 PCB 185	394	NotFnd	*	*	*	-0.00156		*			
	HpCB 396	28.58	*	no	*	-0.00133		*	no	0.947	-
139 PCB 174	394	NotFnd	*	*	*	-0.00133		*			
	HpCB 396	28.74	*	no	*	-0.00136		111	no	0.921	-
140 PCB 177	394	29.16	32670	1.06	63448	0.051608	-0.00136	111			
	HpCB 396	29.16	30778	yes	*	-0.00142		*	no	0.885	-
141 PCB 181	394	NotFnd	*	*	*	-0.00142		*			
	HpCB 396	29.57	*	no	*	-0.0014		60	no	0.898	-
142 PCB 171/173	394	29.80	17586	1.11	33450	0.027904	-0.0014	56			
	HpCB 396	29.80	15864	yes	*	-0.0014		*	no	0.898	-
143 PCB 172	394	NotFnd	*	*	*	-0.00121		*			
	HpCB 396	31.44	*	no	*	-0.00121		*	no	1.043	-
144 PCB 192	394	NotFnd	*	*	*	-0.00121		*			
	HpCB 396	31.76	*	no	*	-0.00089		360	no	1.408	-
145 PCB 193/180	394	32.13	112971	1.1	215700	0.151848	-0.00089	343			
	HpCB 396	32.08	102729	yes		-0.00101		7	no	1.24	-
146 PCB 191	394	32.51	2601	0.92	5424	0.003277	-0.00101	9			
	HpCB 396	32.50	2823	yes		-0.00099		64	no	1.271	-
147 PCB 170	394	33.45	19477	1.08	37557	0.03286	-0.00099	62			
	HpCB 396	33.47	18080	yes		-0.00098		40	no	1.277	-
148 PCB 190	394	34.03	12007	1	23988	0.014068	-0.00098	39			
	HpCB 396	34.04	11981	yes		-0.00056		17	no	0.944	-
149 PCB 189	394	36.87	4194	0.95	8598	0.003904	-0.00056	18			
	HpCB 396	36.88	4404	yes		-0.00087		31	no	0.988	-
150 PCB 202	428	29.26	4674	0.94	9643	0.010021	-0.00087	30			
	OcCB 430	29.28	4968	yes		-0.0008		19	no	1.068	-
151 PCB 201	428	30.21	2752	0.84	6045	0.00498	-0.0008	18			
	OcCB 430	30.18	3293	yes		-0.00081		*	no	1.052	-
152 PCB 204	428	NotFnd	*	*	*	-0.00081		*			
	OcCB 430	30.88	*	no	*	-0.0009		7	no	0.951	-
153 PCB 197	428	31.13	1203	0.94	2482	0.002295	-0.0009	7			
	OcCB 430	31.12	1278	yes	*	-0.00081		*	no	1.056	-
154 PCB 200	428	NotFnd	*	*	*	-0.00081		*			
	OcCB 430	31.24	*	no	*	-0.00122		4	xL	0.702	-
155 PCB 198/199	428	34.20	-473.48	0.89	-1005.48	-0.00126	PCB 198/199 NDR	3			
	OcCB 430	34.19	-532	OK		-0.00117		4	yes	0.734	-
156 PCB 196	428	34.92	606	0.94	1254	0.001503	-0.00117	4			
	OcCB 430	34.93	647	yes		-0.00121		27	yes	0.711	-
157 PCB 203	428	35.14	4456	0.88	9533	0.011802	-0.00121	28			
	OcCB 430	35.12	5077	yes		-0.0008		5	no	1.046	-
158 PCB 195	428	36.59	1094	0.89	2326	0.001956	-0.0008	5			
	OcCB 430	36.59	1232	yes		-0.00074		36	no	1.119	-
159 PCB 194	428	39.21	6778	0.96	13847	0.01089	-0.00074	32			
	OcCB 430	39.22	7070	yes		-0.00076		6	yes	1.091	-
160 PCB 205	428	39.76	1130	1.02	2238	0.001579	-0.00076	5			
	OcCB 430	39.77	1108	yes	*	-0.0008		*	no	1.023	-
161 PCB 208	462	NotFnd	*	*	*	-0.0008		*			
	NoCB 464	36.33	*	no	*	-0.00063		*	no	1.304	-
162 PCB 207	462	NotFnd	*	*	*	-0.00063		*			
	NoCB 464	37.35	*	no	*	-0.0008		*	Op-O	1.027	-
163 PCB 206	462	41.73	223	0.59	601	-0.0008		*			
	NoCB 464	41.71	378	no		-0.00097		*	yes	1.04	-
164 PCB 209	498	43.56	155	1.01	309	-0.00097		*			
	DCB 500	43.54	153	yes		0	8748		no	0.824	70
165 PCB 1L	200	8.99	301215	3.46	388347	0.131272		476			
	202	8.99	87132	yes		0	8765		no	0.852	67
166 PCB 3L	200	10.18	299138	3.47	385401	0.125909		479			
	202	10.20	86263	yes		0	1915		no	0.543	53
167 PCB 4L	234	10.28	119440	1.63	192509	0.098791		3595			
	236	10.30	73069	yes		0	1591		no	1.074	80
168 PCB 15L	234	12.93	366398	1.69	583139	0.151147		2096			
	236	12.93	216741	yes		0.001	378		no	0.578	49
169 PCB 19L	268	11.68	99999	1.08	192495	0.0927	0.001	312			
	270	11.70	92495	yes		0.001	798		no	1.987	108
170 PCB 37L	268	16.70	300924	1.07	581598	0.203724		532			
	270	16.69	280674	yes		0	917		no	1.297	65
171 PCB 54L	302	13.06	99973	0.79	226236	0.121349		2721			
	304	13.07	126263	yes		0	1245		no	1.738	95
172 PCB 81L	302	21.42	198808	0.8	447649	0.179242		1753			
	304	21.42	248841	yes		0	1174		no	1.677	95
173 PCB 77L	302	21.87	190389	0.8	428354	0.177735		1636			
	304	21.85	237965	yes		0	6355		no	1.156	78
174 PCB 104L	338	15.92	128615	1.64	206862	0.14636		3544			
	340	15.93	78247	yes		0	3232		no	1.936	99
175 PCB 123L	338	23.49	276227	1.66	442262	0.186801		2109			
	340	23.50	166035	yes		0	3153		no	1.906	98
176 PCB 118L	338	23.77	269622	1.69	429196	0.184141		2009			
	340	23.76	159574	yes		0	3006		no	1.773	101
177 PCB 114L	338	24.26	258233	1.68	411565	0.18982		1927			
	340	24.25	153332	yes		0	3062		no	1.822	101
178 PCB 105L	338	24.83	262717	1.64	422935	0.189758		1989			
	340	24.81	160218	yes		0	2593		no	1.735	100
179 PCB 126L	338	27.69	250071	1.67	399647	0.18829		1680			
	340	27.67	149576	yes		0	7182		no	1.404	71
180 PCB 155L	372	19.61	123698	1.28	220183	0.133747		6147			
	374	19.61	96485	yes		0	4105		no	2.11	95
181 PCB 167L	372	29.52	249742	1.3	441567	0.178429		2317			
	374	29.49	191825	yes		0	6316		no	1.921	97
182 PCB 156L/157L	372	30.68	464580	1.31	819811	0.363855		3603			
	374	30.69	355231	yes		0	2228		no	1.886	64
183 PCB 169L	372	34.10	149825	1.29	265627	0.120058		1269			
	374	34.07	115802	yes							

184 PCB 188L	406	24.20	107062	1.08	206481	0.132419	0	3972	no	1.329	70
	408	24.21	99419	yes				4342			
185 PCB 180L	406	32.11	98962	1.09	189797	0.134142	0	3846	no	1.349	71
	408	32.09	90835	yes				3677			
186 PCB 170L	406	33.44	87592	1.07	169124	0.13659	0	3385	no	1.18	73
	408	33.42	81531	yes				3249			
187 PCB 189L	406	36.84	226251	1.06	438903	0.193913	0	2245	no	2.157	103
	408	36.83	212651	yes				4287			
188 PCB 202L	440	29.25	88688	0.94	183253	0.123049	0	1778	no	1.419	65
	442	29.27	94565	yes				4556			
189 PCB 205L	440	39.73	116858	0.92	244339	0.152081	0	2941	no	1.531	81
	442	39.73	127481	yes				3819			
190 PCB 208L	474	36.29	73458	0.8	165304	0.138275	0	2359	no	1.139	74
	476	36.28	91846	yes				2656			
191 PCB 206L	474	41.71	53924	0.79	122155	0.153286	0	1672	no	0.76	82
	476	41.73	68232	yes				1865			
192 PCB 209L	510	43.54	61724	1.16	114933	0.151237	0	2742	no	0.724	80
	512	43.53	53210	yes				3794			
193 PCB 28L	268	14.41	398376	1.08	766331	0.261491	0.001	1237	no	2.039	125
PCB Cleanup Standard	270	14.43	367955	yes				824			
194 PCB 111L	338	21.83	219618	1.65	352732	0.214746	0	4758	no	1.343	103
PCB Cleanup Standard	340	21.84	133115	yes				2602			
195 PCB 178L	406	26.98	82147	1.04	161299	0.187627	0	2877	no	0.733	90
PCB Cleanup Standard	408	26.97	79152	yes				3269			
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	11.19	2330435	1.64	3751749	8.393337	-	11372	no	-	-
PCB Recovery Standard	236	11.19	1421314	yes				15124			
200 PCB 52L	302	15.36	666620	0.8	1501355	6.402231	-	8513	no	-	-
PCB Recovery Standard	304	15.36	834735	yes				7887			
201 PCB 101L	338	19.77	789963	1.62	1277714	6.762128	-	18466	no	-	-
PCB Recovery Standard	340	19.76	487751	yes				10306			
202 PCB 138L	372	26.57	689016	1.28	1225413	7.193607	-	29768	no	-	-
PCB Recovery Standard	374	26.56	536397	yes				26376			
203 PCB 194L	440	39.18	529865	0.94	1096120	7.723644	-	13817	no	-	-
PCB Recovery Standard	442	39.17	566256	yes				17470			
Chlorobiphenyls							0	-0.00051			
Dichlorobiphenyls							6	-0.00157			
Trichlorobiphenyls							17	-0.0016			
Tetrachlorobiphenyls							23	-0.00217			
Pentachlorobiphenyls							19	-0.00156			
Hexachlorobiphenyls							22	-0.00164			
Heptachlorobiphenyls							13	-0.00156			
Octachlorobiphenyls							8	-0.00122			
Nonachlorobiphenyls							0	-0.0008			
Decachlorobiphenyl							0	-0.00097			
PCB (total)								5.5127			

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

Method: C:\MassLynx\Default.pro\Methdb\EPA 1668_M2160219.mdb 22 Feb 2016 17:53:21

Calibration: C:\MassLynx\Default.pro\Curvedb\M2160219_209.cdb 21 Feb 2016 16:43:25

Description: BRP512-01R

Vial: 3

Date: 19-FEB-2016

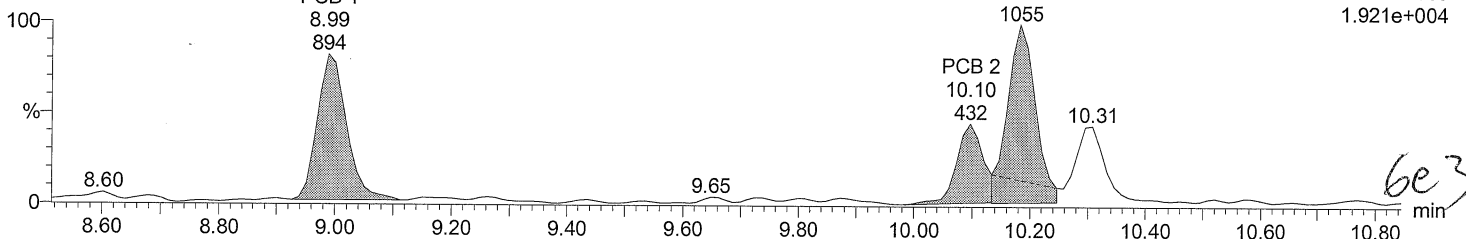
Time: 13:47:37

Instrument: Autospec-UltimaE

Total MoCB F1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

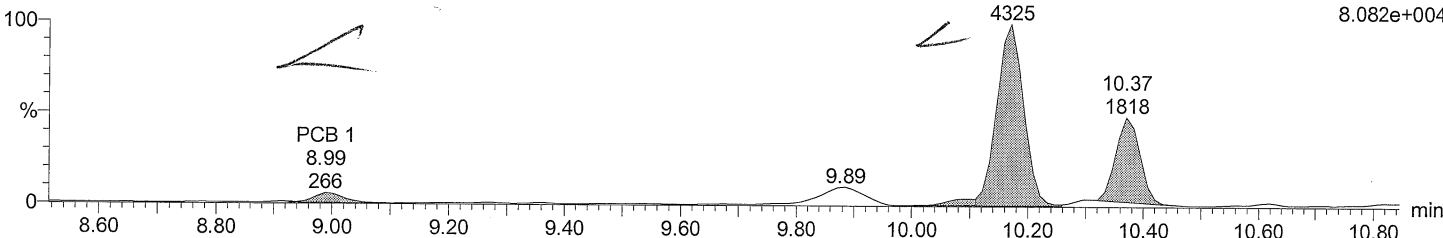
F1:SIR of 10 channels,EI+
188.0393
1.921e+004



Total MoCB F1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

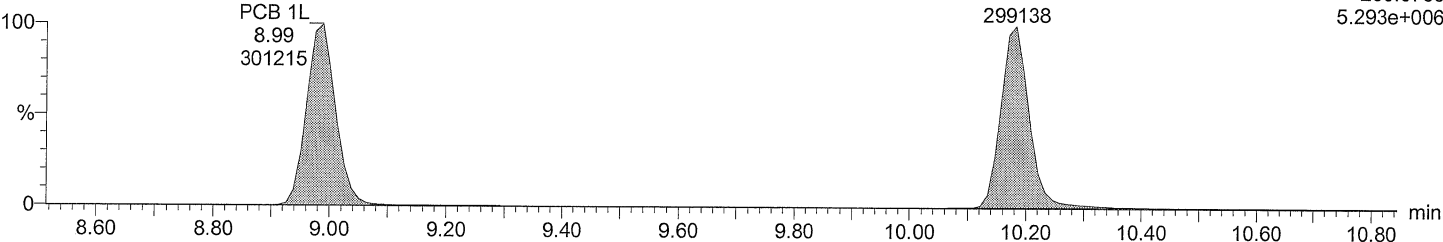
F1:SIR of 10 channels,EI+
190.0363
8.082e+004



Total MoCB labeled F1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

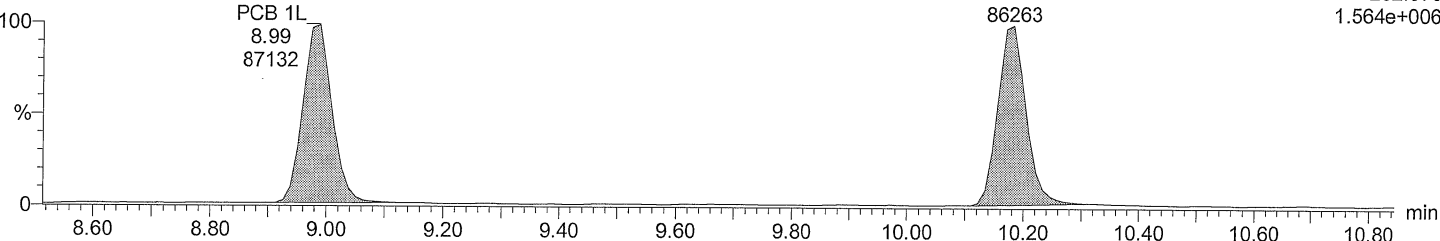
PCB 3L
10.18
299138
F1:SIR of 10 channels,EI+
200.0795
5.293e+006



Total MoCB labeled F1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

PCB 3L
10.18
86263
F1:SIR of 10 channels,EI+
202.076
1.564e+006



Acquired Date

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

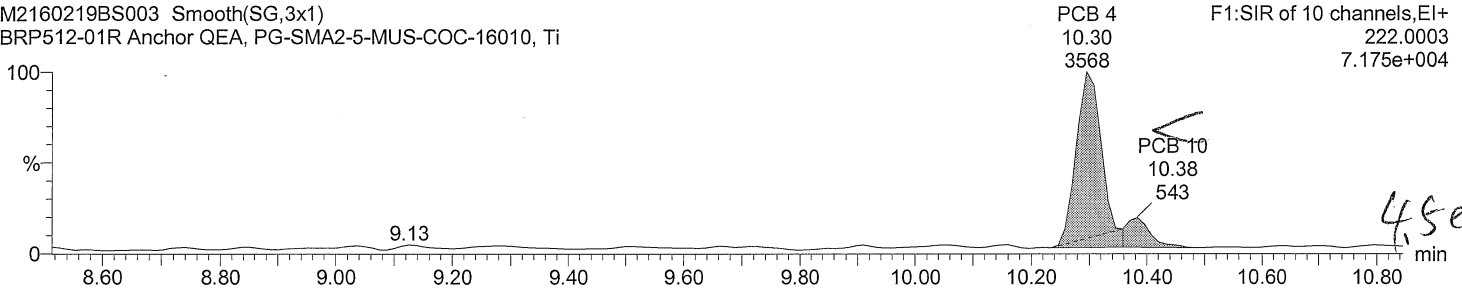
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time

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

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

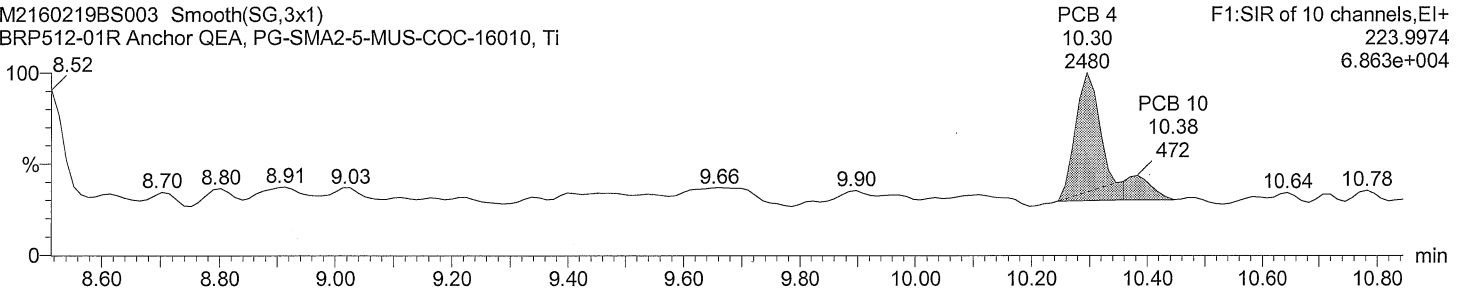
Total DiCB F1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



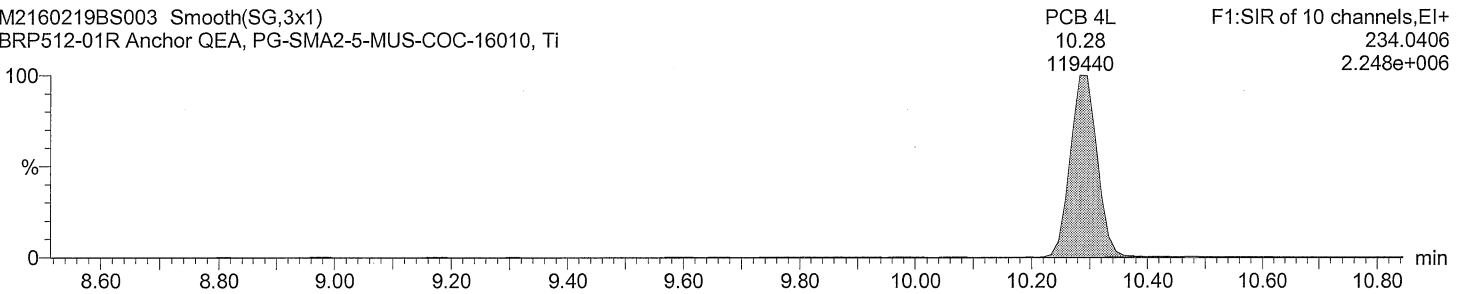
Total DiCB F1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



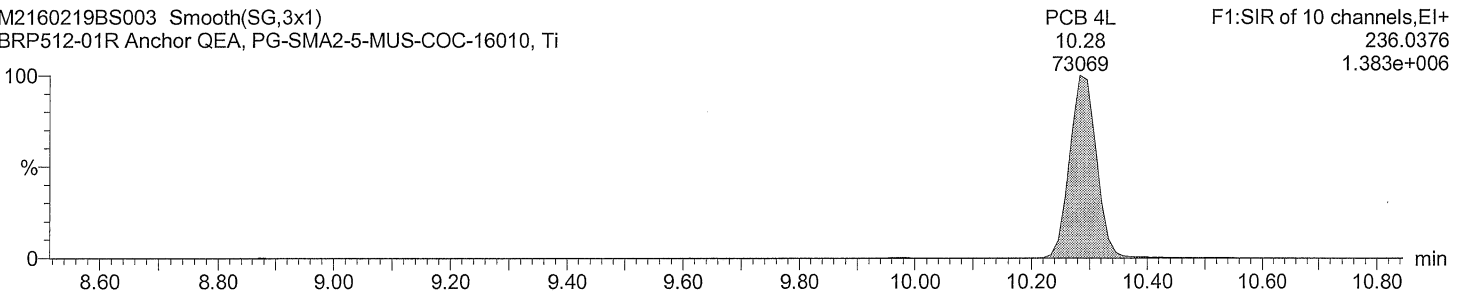
Total DiCB labeled F1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Total DiCB labeled F1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

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

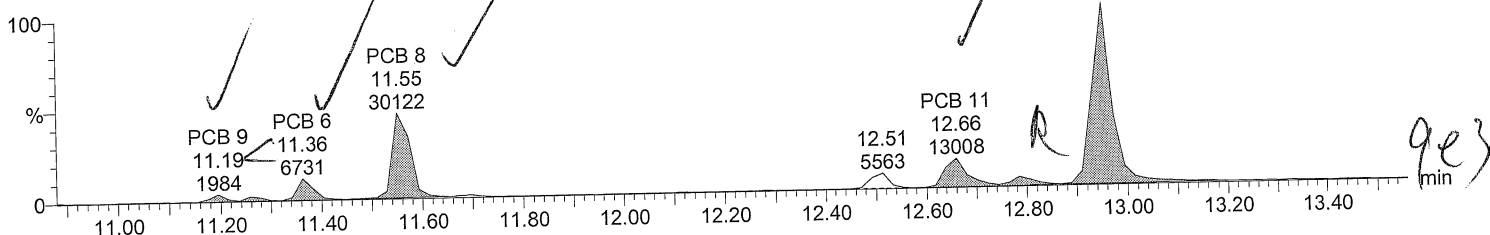
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
 Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

Total DiCB F2

M2160219BS003
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

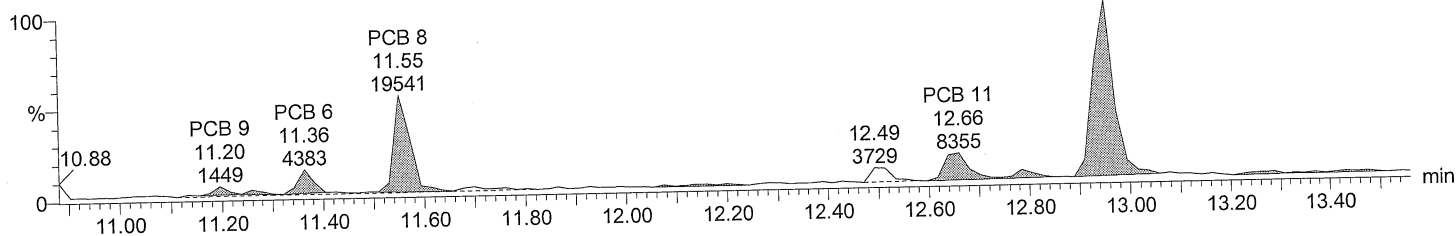
F2:SIR of 16 channels, EI+
 222.0003
 1.593e+006



Total DiCB F2

M2160219BS003
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

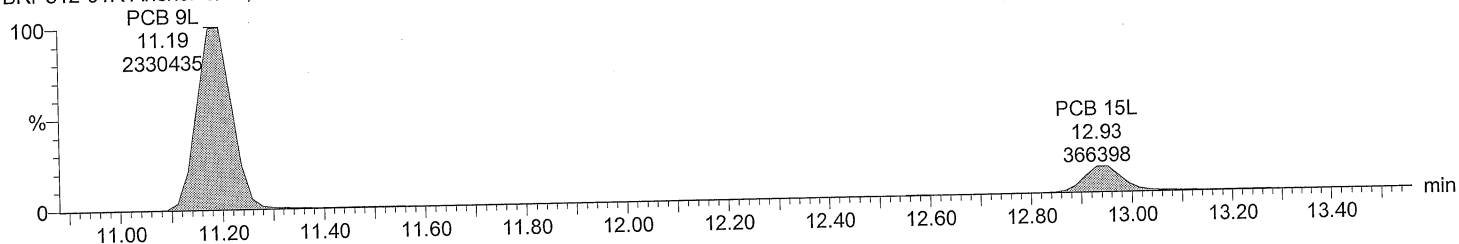
F2:SIR of 16 channels, EI+
 223.9974
 9.923e+005



Total DiCB labeled F2

M2160219BS003 Smooth(SG,3x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

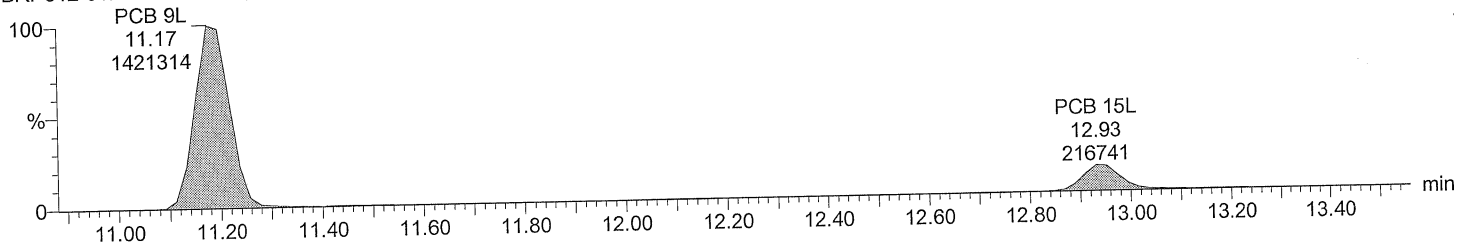
F2:SIR of 16 channels, EI+
 234.0406
 2.923e+007



Total DiCB labeled F2

M2160219BS003 Smooth(SG,3x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F2:SIR of 16 channels, EI+
 236.0376
 1.800e+007

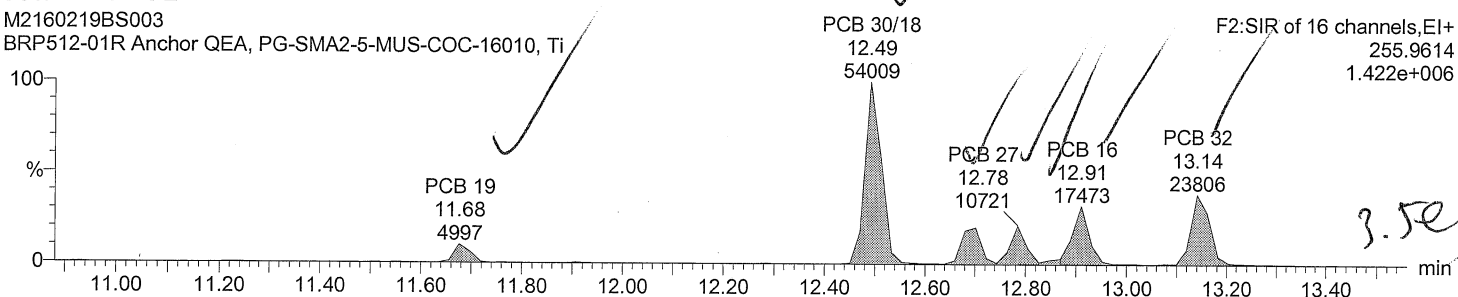


Dataset: C:\MassLynx\Default.pro\QLDM2160219_samples_1668A.qld
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

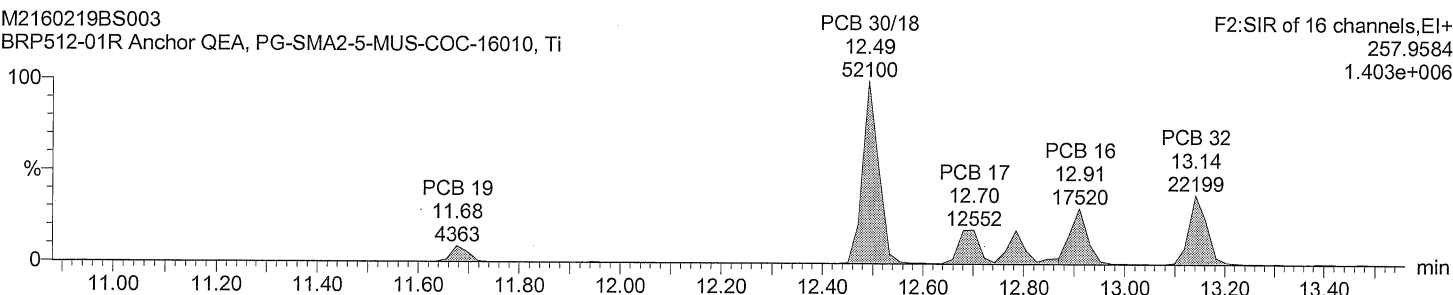
Total TriCB F2

M2160219BS003
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



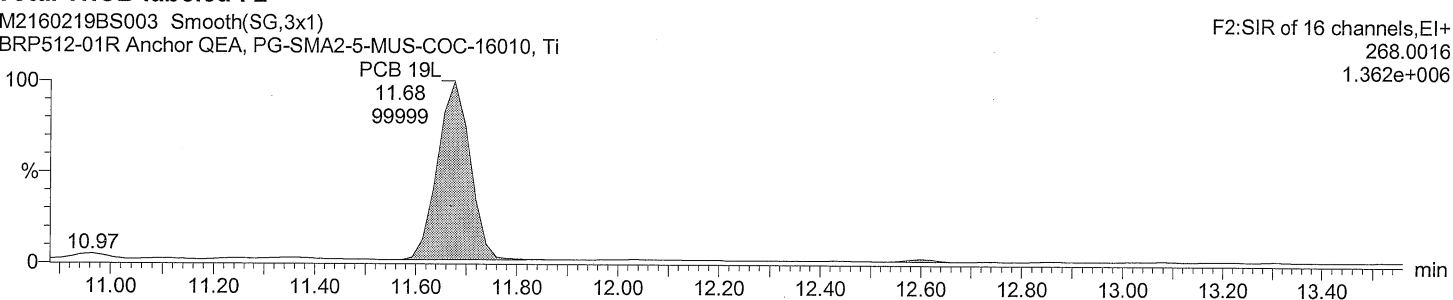
Total TriCB F2

M2160219BS003
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



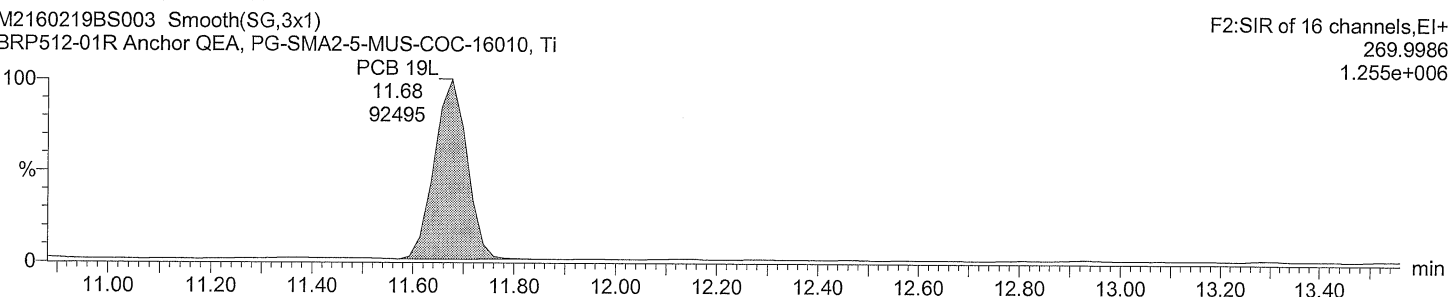
Total TriCB labeled F2

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Total TriCB labeled F2

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Acquired Date

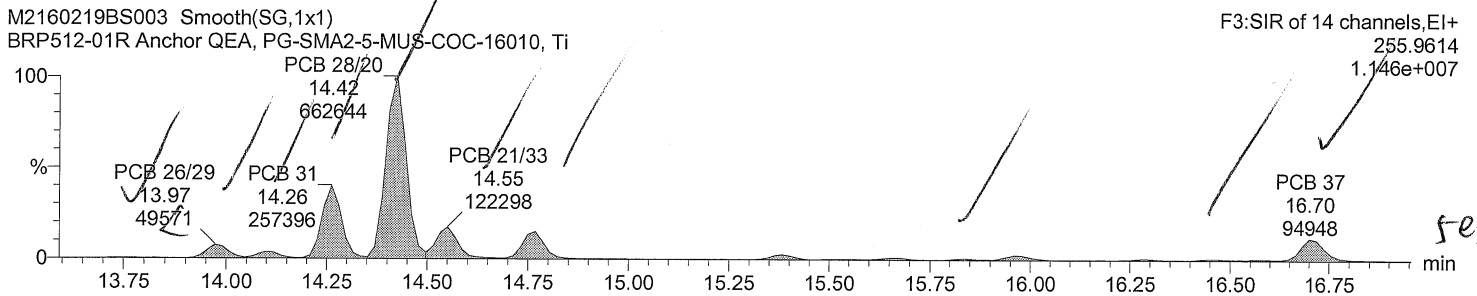
Dataset: C:\MassLynx\Default.pro\QLDM2160219_samples_1668A.qld

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

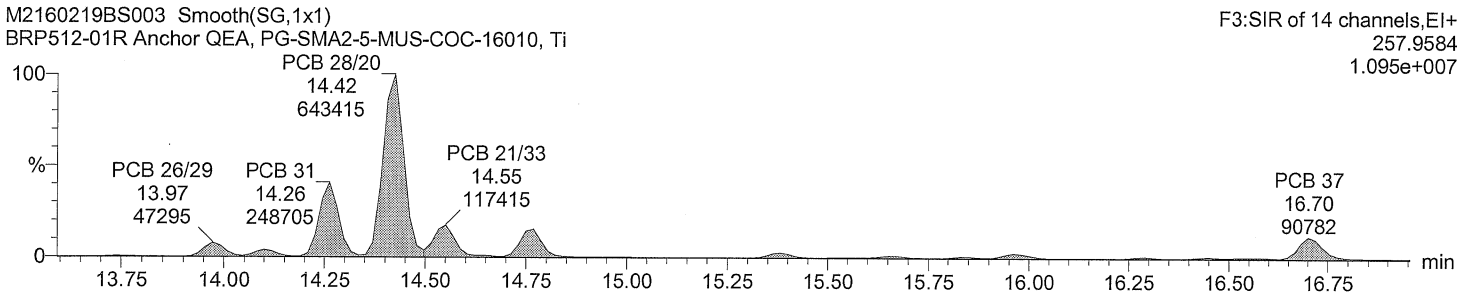
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

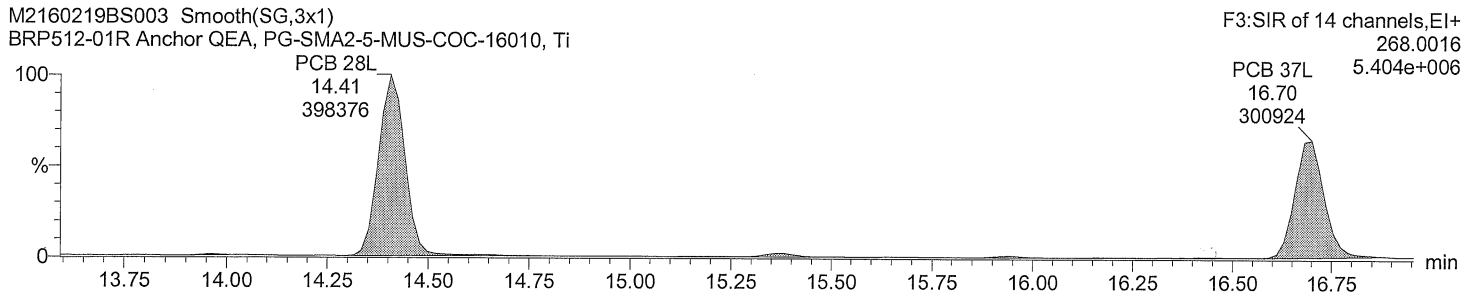
Total TriCB F3



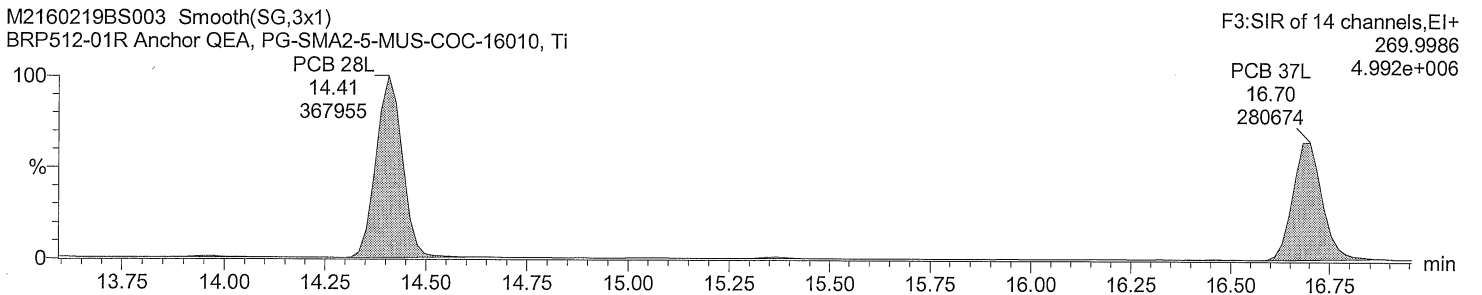
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



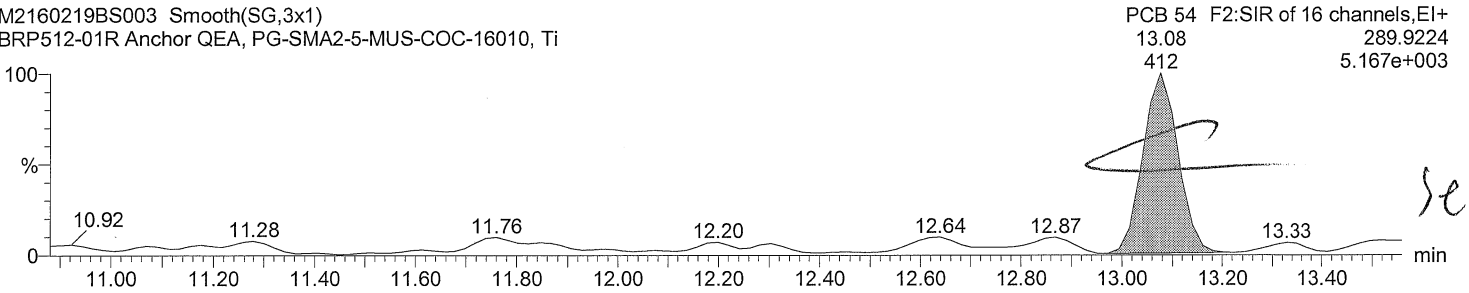
Dataset: C:\MassLynx\Default.pro\QLD\M2160219_samples_1668A.qld

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

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

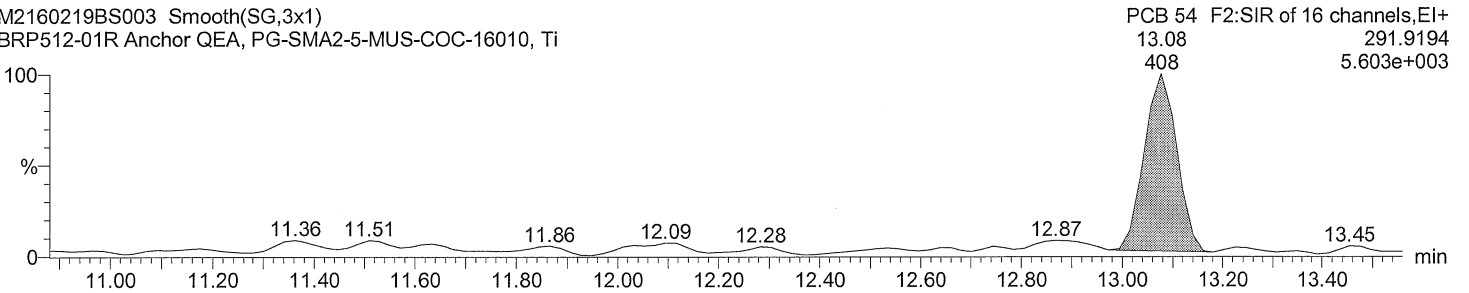
Total TeCB F2

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



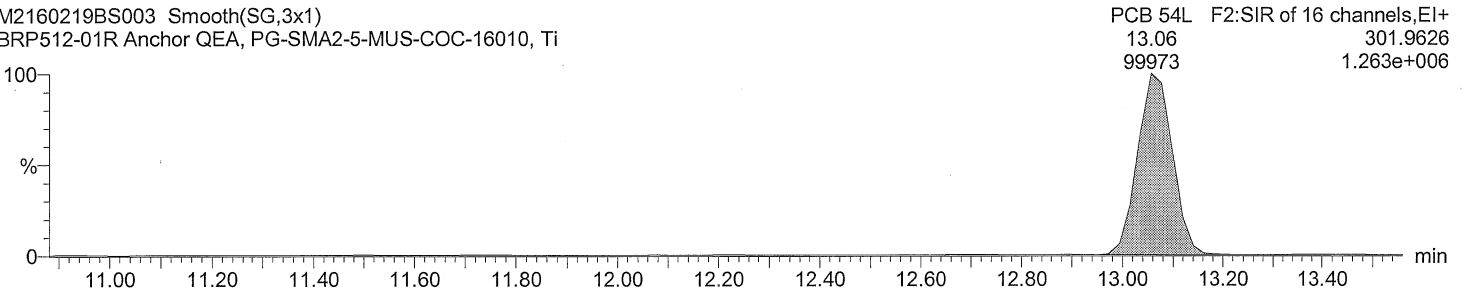
Total TeCB F2

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



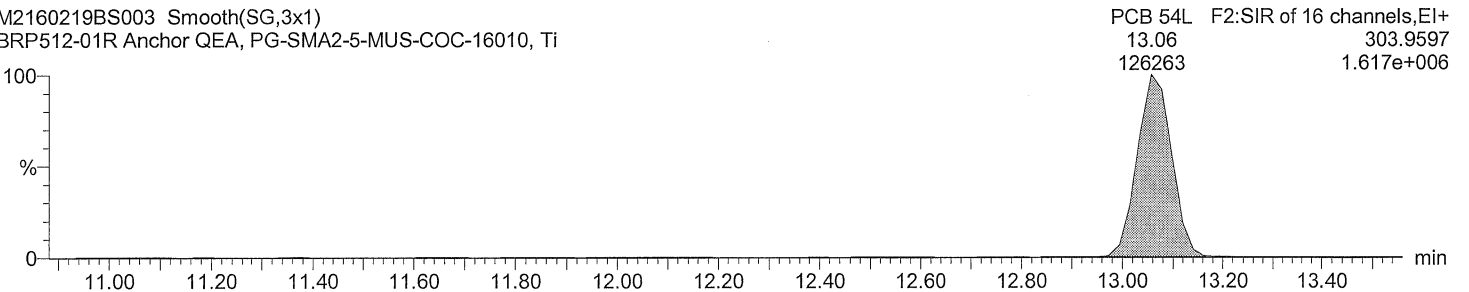
Total TeCB labeled F2

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Total TeCB labeled F2

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

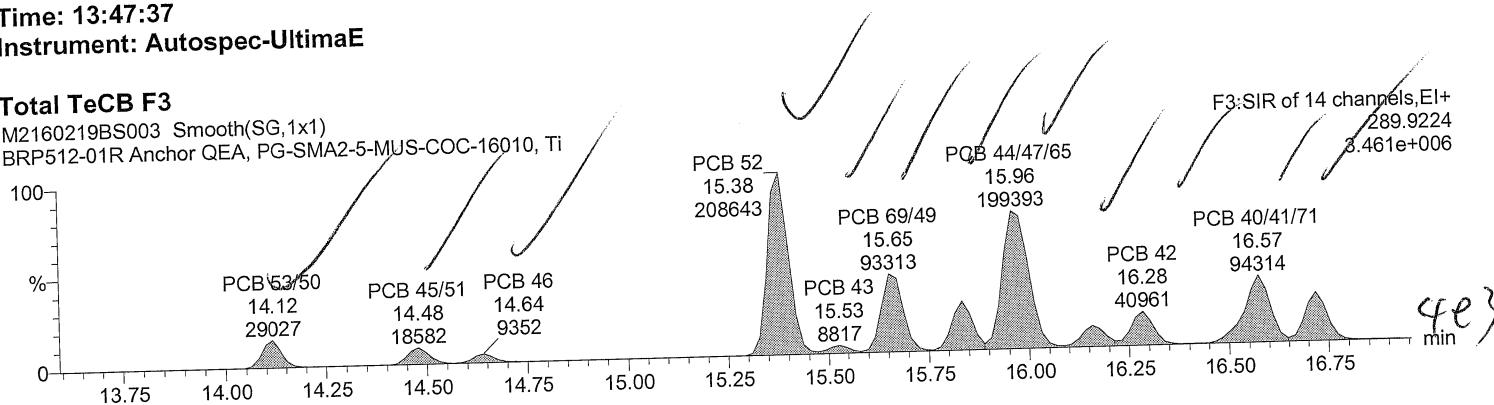
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Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
 Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

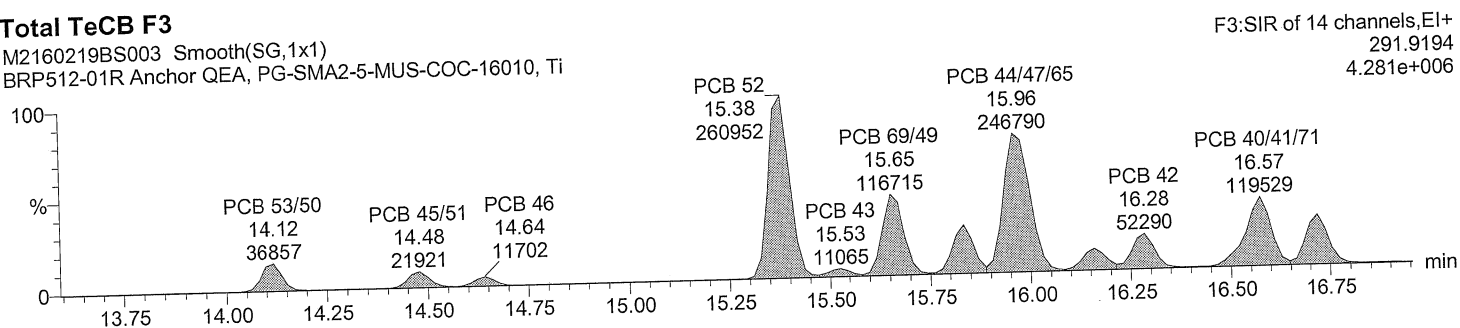
Total TeCB F3

M2160219BS003 Smooth(SG,1x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



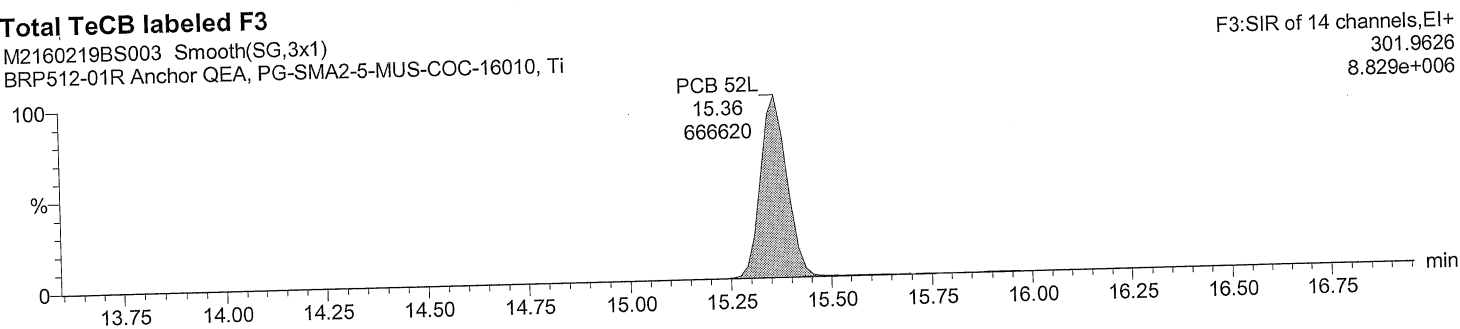
Total TeCB F3

M2160219BS003 Smooth(SG,1x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



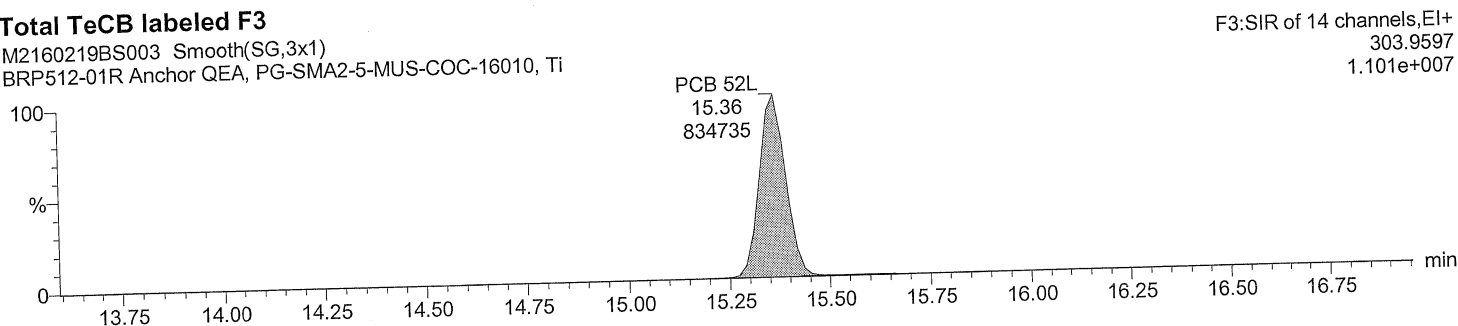
Total TeCB labeled F3

M2160219BS003 Smooth(SG,3x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Total TeCB labeled F3

M2160219BS003 Smooth(SG,3x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Dataset: C:\MassLynx\Default.pro\QLDM2160219_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: BRP512-01R

Vial: 3

Date: 19-FEB-2016

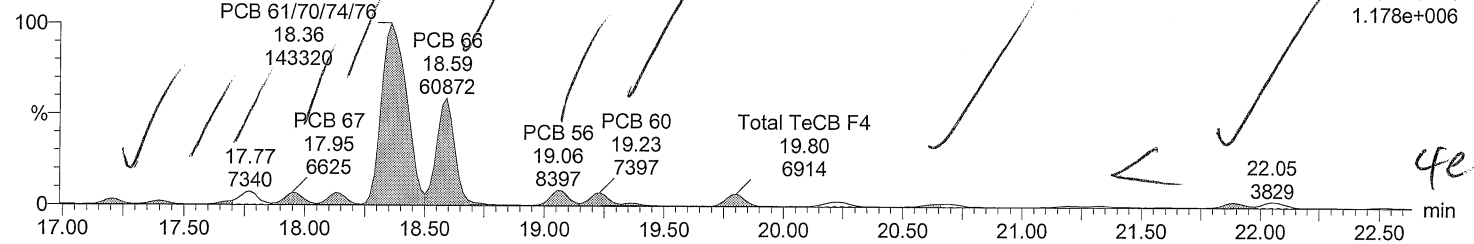
Time: 13:47:37

Instrument: Autospec-UltimaE

Total TeCB F4

M2160219BS003 Smooth(SG,3x1)

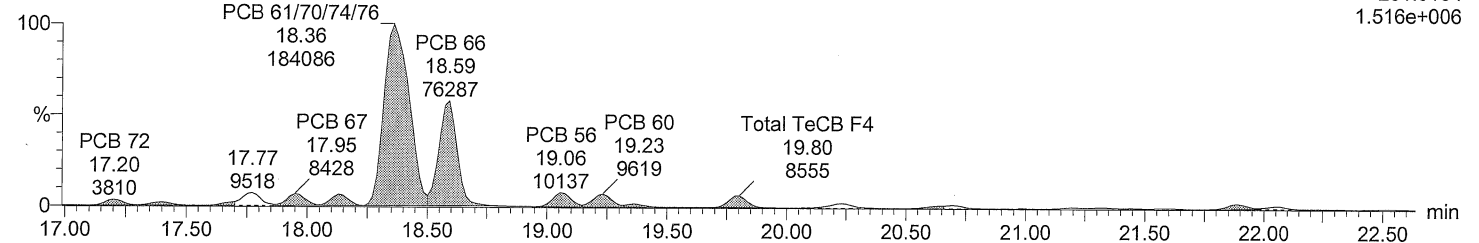
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Total TeCB F4

M2160219BS003 Smooth(SG,3x1)

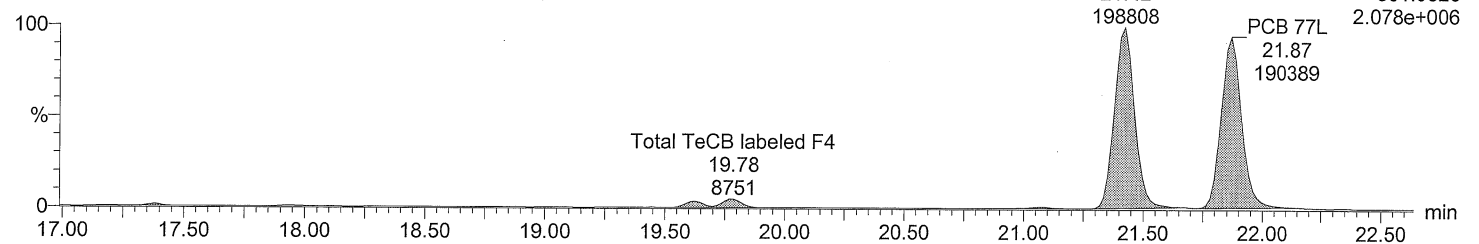
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Total TeCB labeled F4

M2160219BS003 Smooth(SG,3x1)

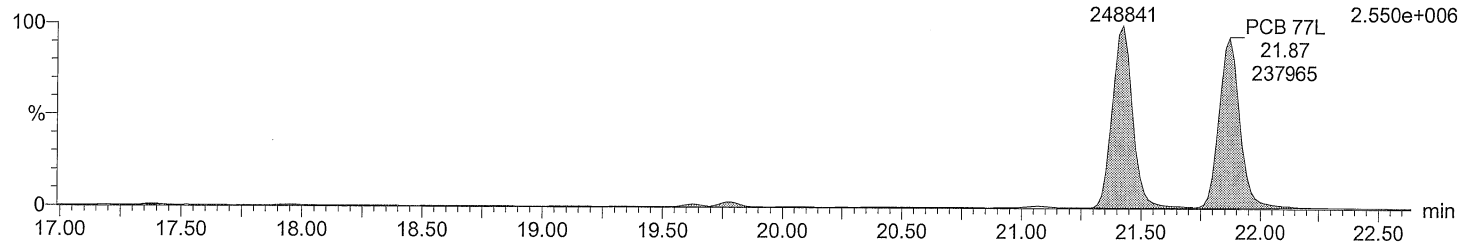
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Total TeCB labeled F4

M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



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: BRP512-01R

Vial: 3

Date: 19-FEB-2016

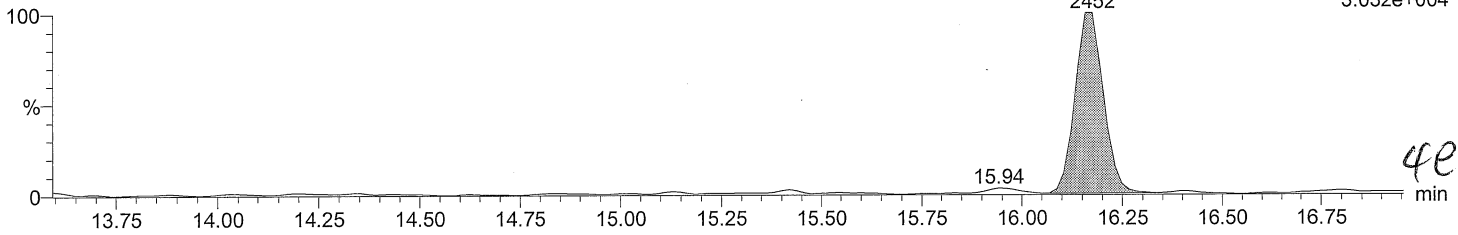
Time: 13:47:37

Instrument: Autospec-UltimaE

Total PeCB F3

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

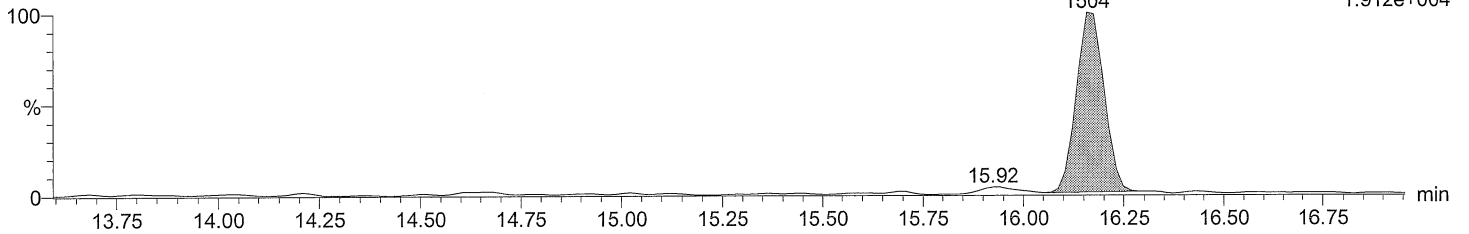
PCB 96 16.18 2452
F3:SIR of 14 channels,EI+
325.8805
3.032e+004



Total PeCB F3

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

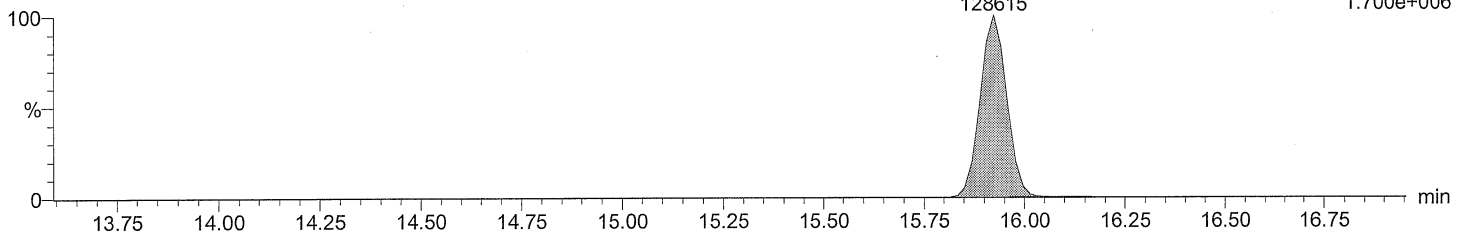
PCB 96 16.16 1504
F3:SIR of 14 channels,EI+
327.8775
1.912e+004



Total PeCB labeled F3

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

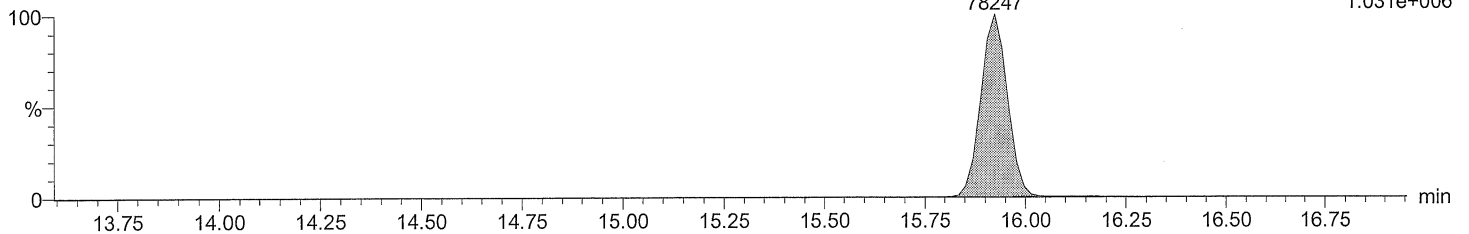
PCB 104L 15.92 128615
F3:SIR of 14 channels,EI+
337.9207
1.700e+006



Total PeCB labeled F3

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

PCB 104L 15.92 78247
F3:SIR of 14 channels,EI+
339.9178
1.031e+006



Acquired Date

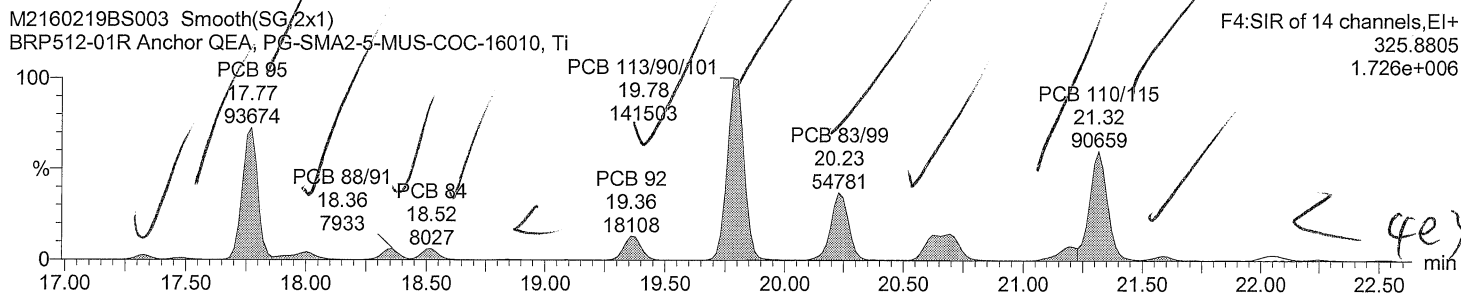
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Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time

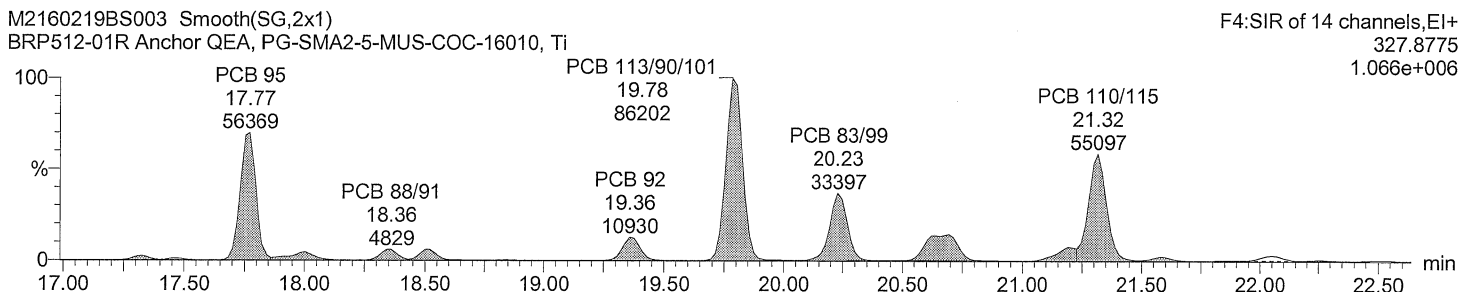
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

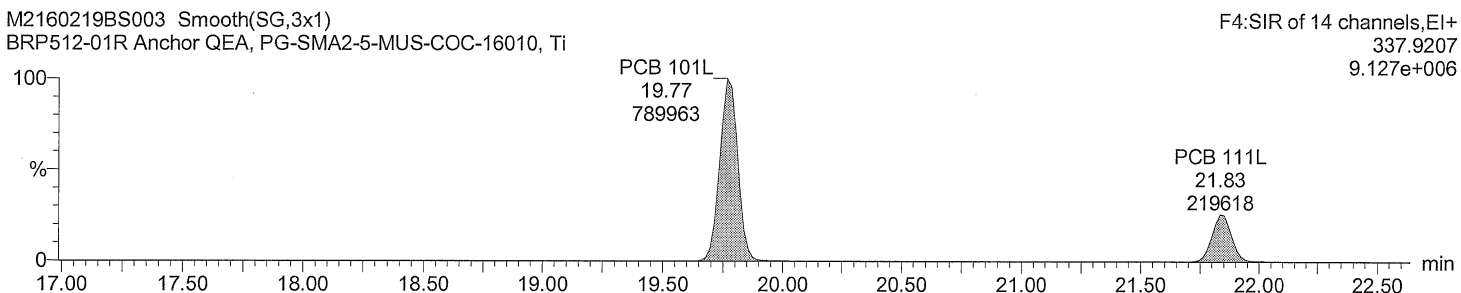
Total PeCB F4



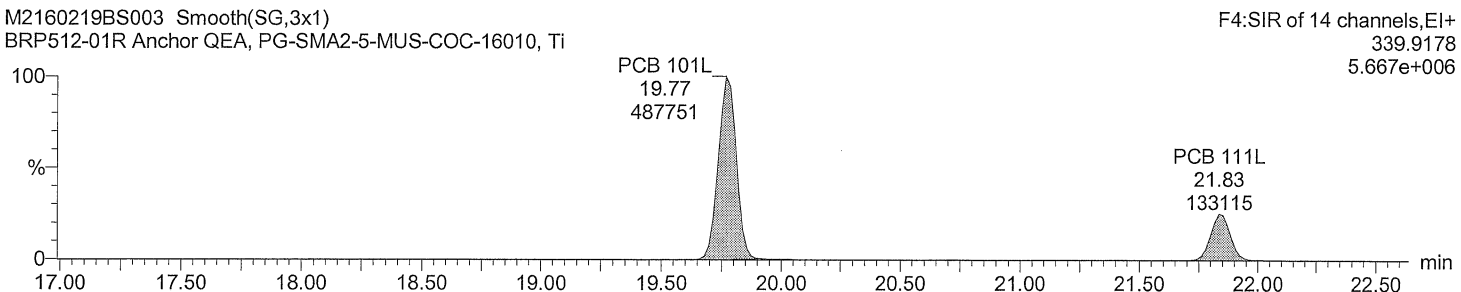
Total PeCB F4



Total PeCB labeled F4



Total PeCB labeled F4



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160219_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: BRP512-01R

Vial: 3

Date: 19-FEB-2016

Time: 13:47:37

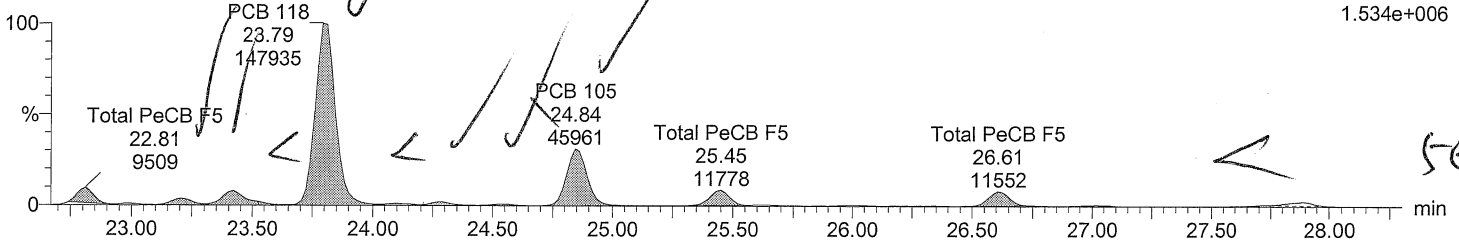
Instrument: Autospec-UltimaE

Total PeCB F5

M2160219BS003 Smooth(SG,2x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F5:SIR of 14 channels,EI+
325.8805
1.534e+006

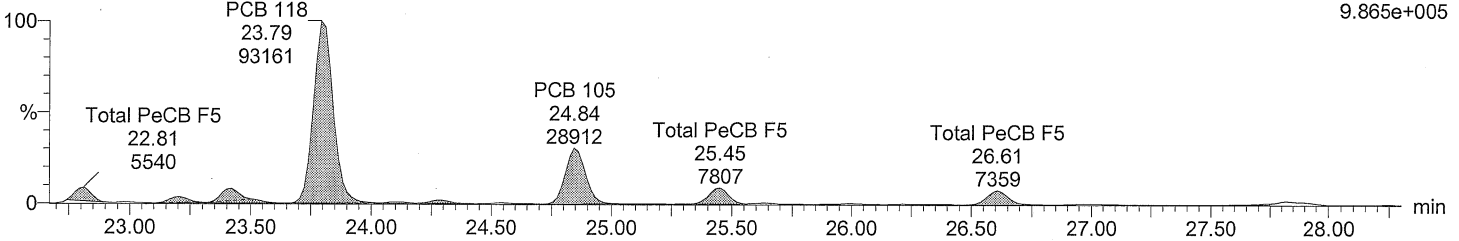


Total PeCB F5

M2160219BS003 Smooth(SG,2x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F5:SIR of 14 channels,EI+
327.8775
9.865e+005

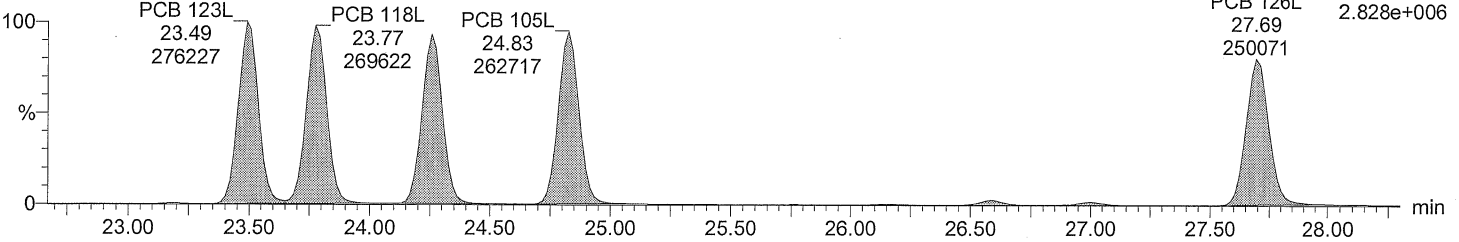


Total PeCB labeled F5

M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F5:SIR of 14 channels,EI+
337.9207
2.828e+006

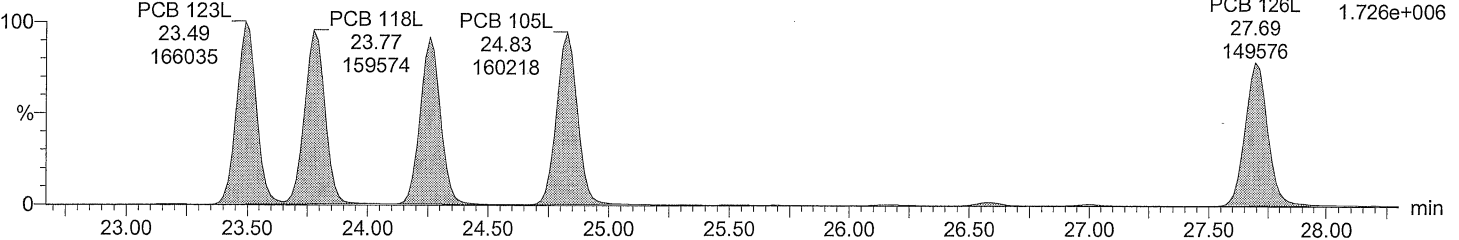


Total PeCB labeled F5

M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F5:SIR of 14 channels,EI+
339.9178
1.726e+006



Acquired Date

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

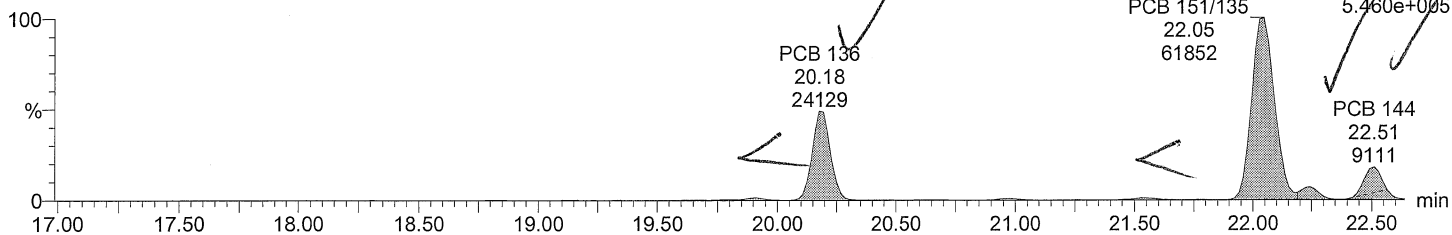
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time

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

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

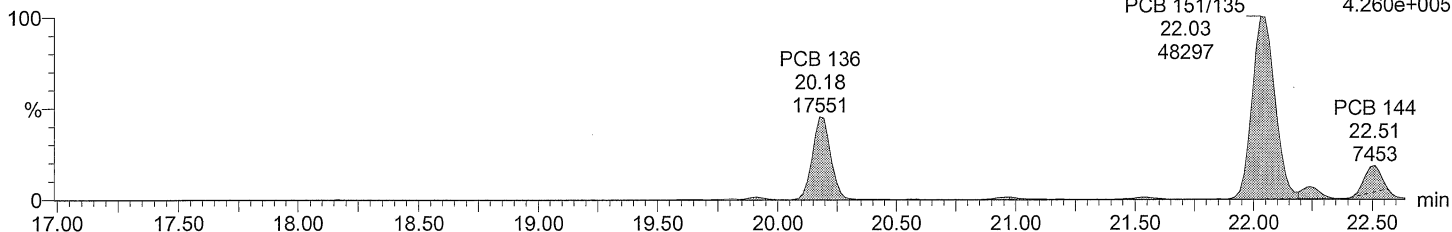
Total HxCB F4

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



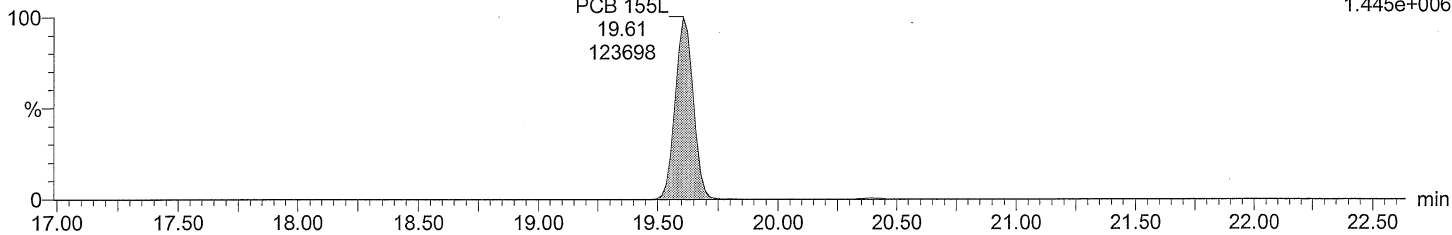
Total HxCB F4

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BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



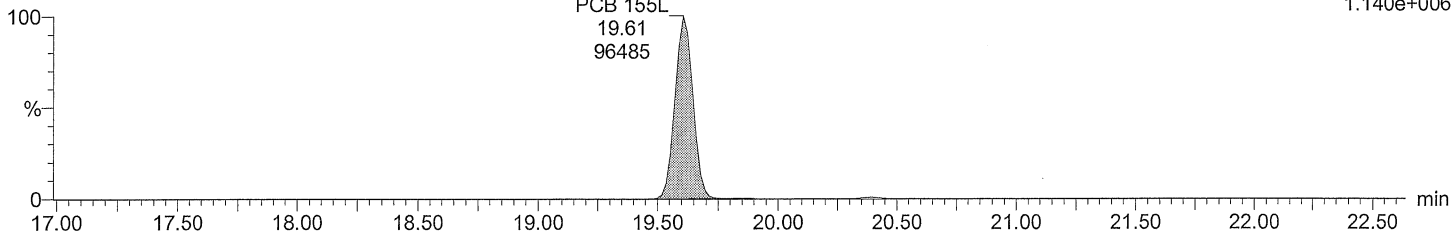
Total HxCB labeled F4

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Total HxCB labeled F4

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

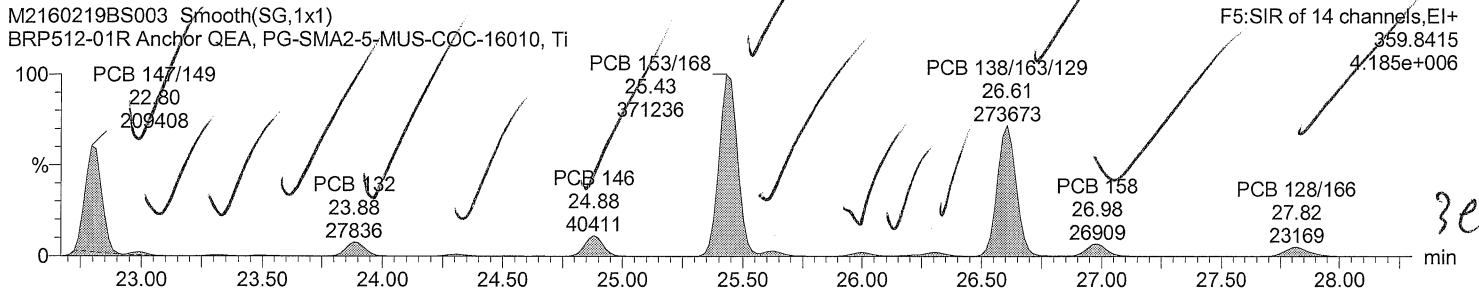


Dataset: C:\MassLynx\Default.pro\QLD\M2160219_samples_1668A.qld

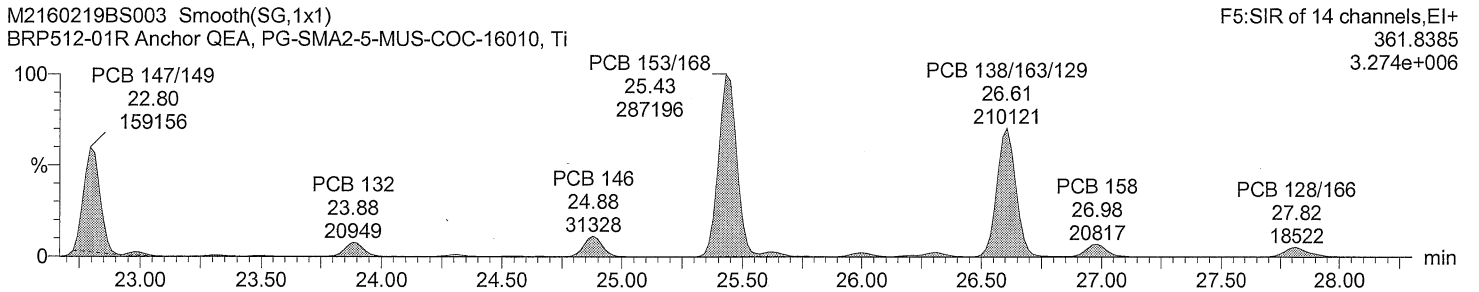
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Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

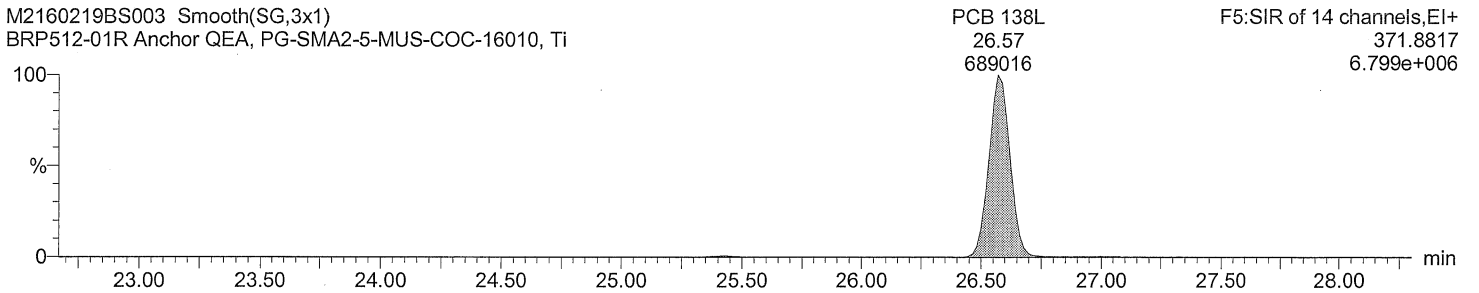
Total HxCB F5



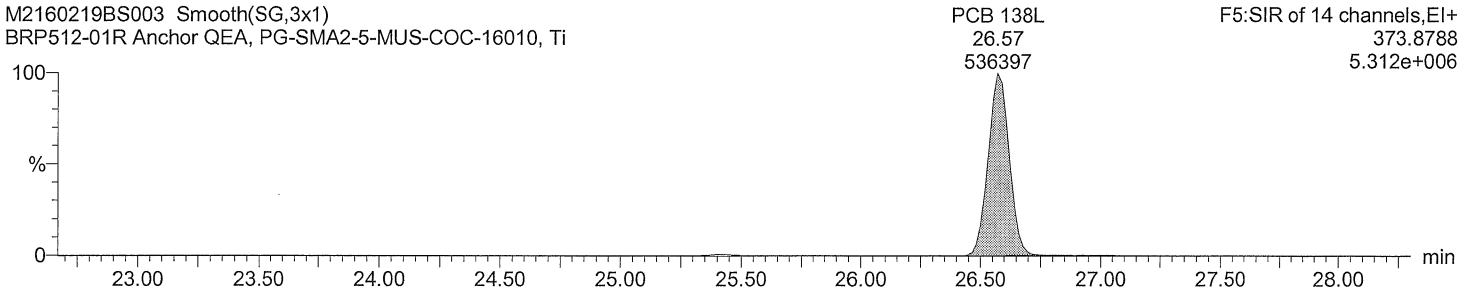
Total HxCB F5



Total HxCB labeled F5



Total HxCB labeled F5

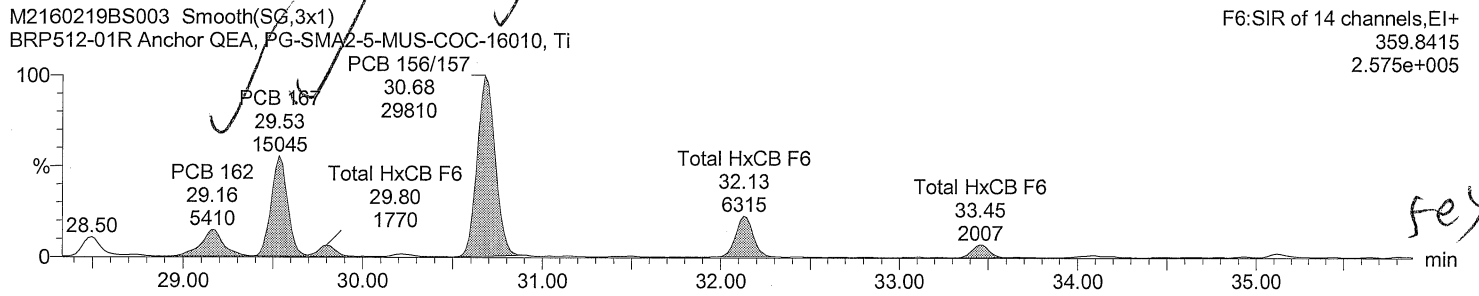


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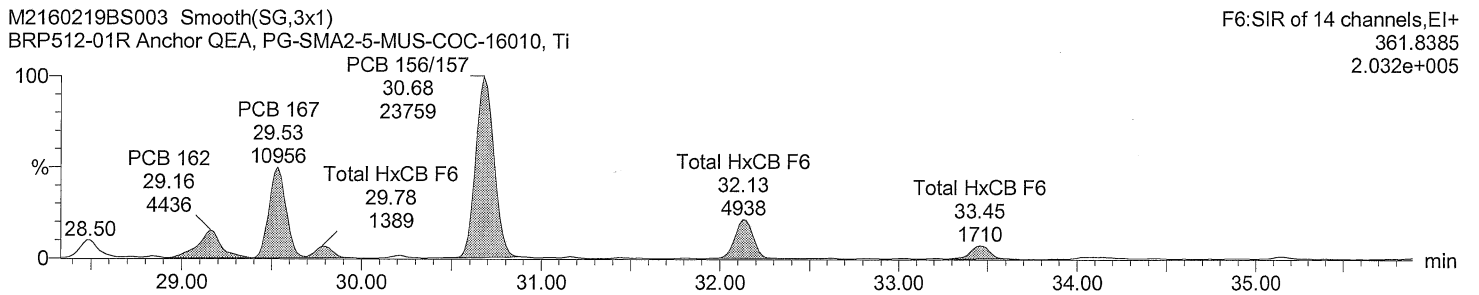
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Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

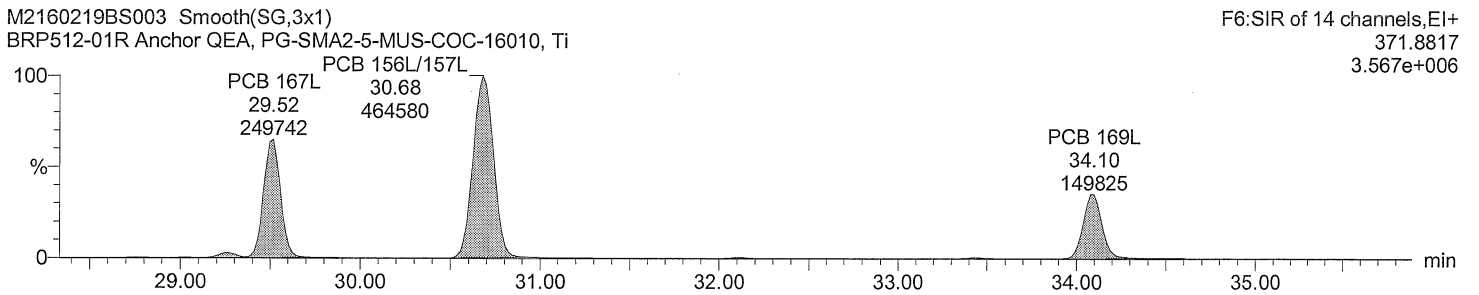
Total HxCB F6



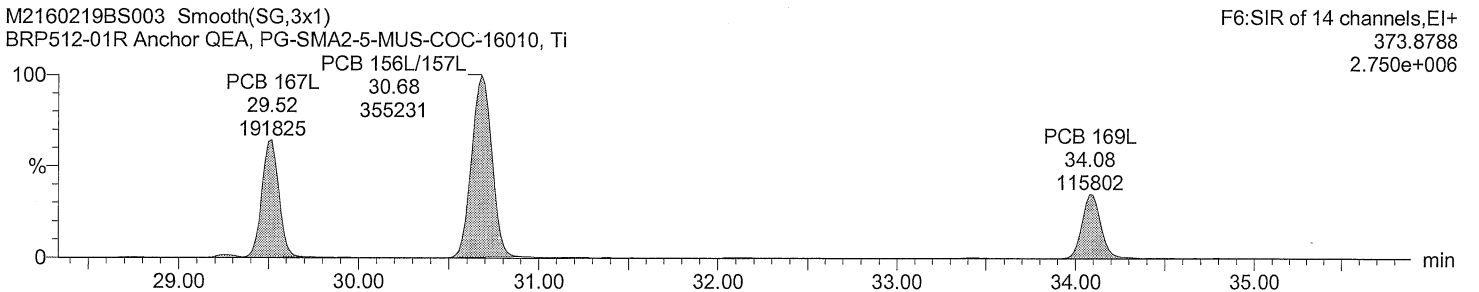
Total HxCB F6



Total HxCB labeled F6



Total HxCB labeled F6

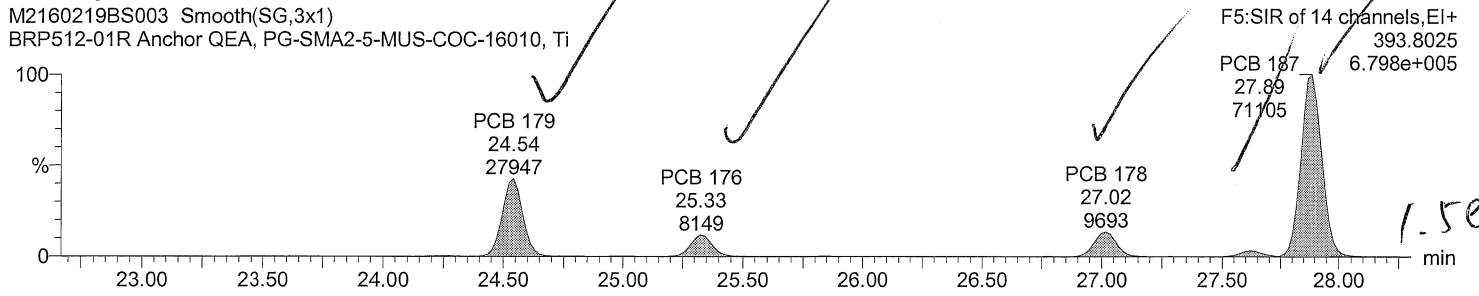


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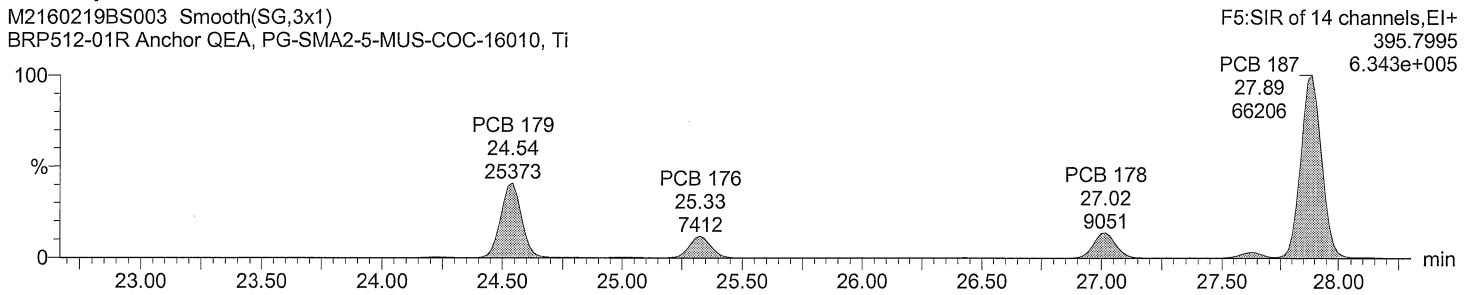
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

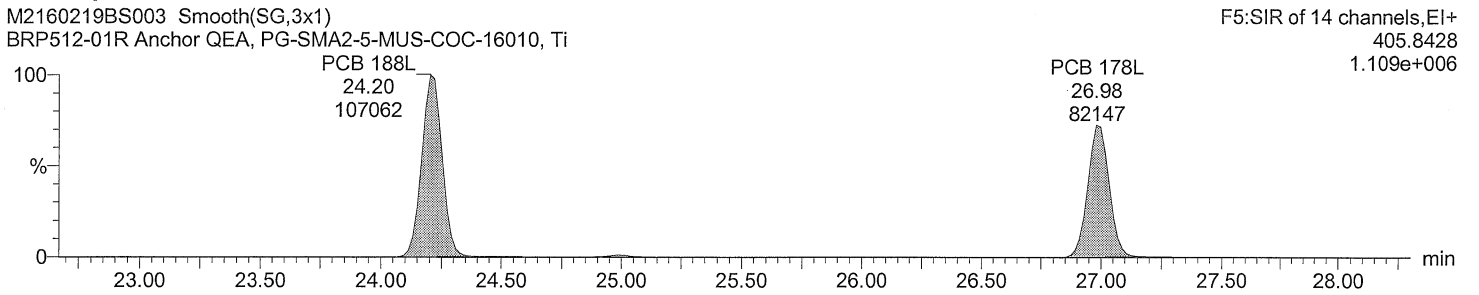
Total HpCB F5



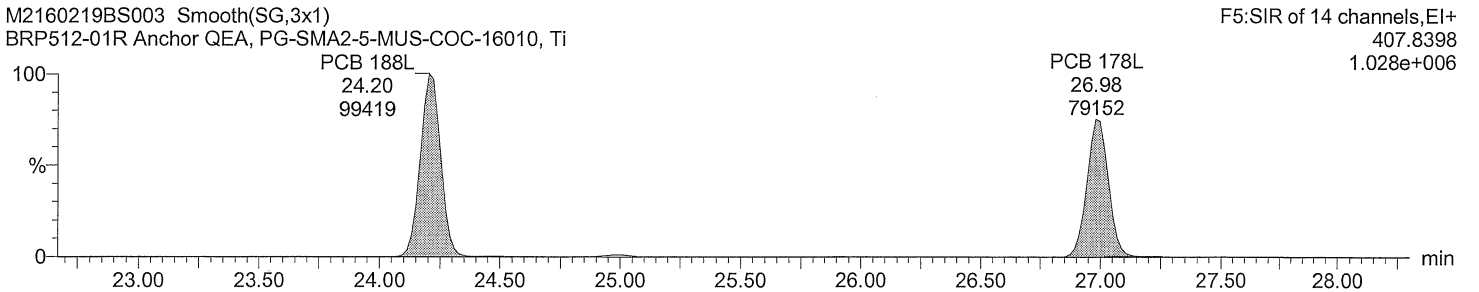
Total HpCB F5



Total HpCB labeled F5



Total HpCB labeled F5



Acquired Date

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

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

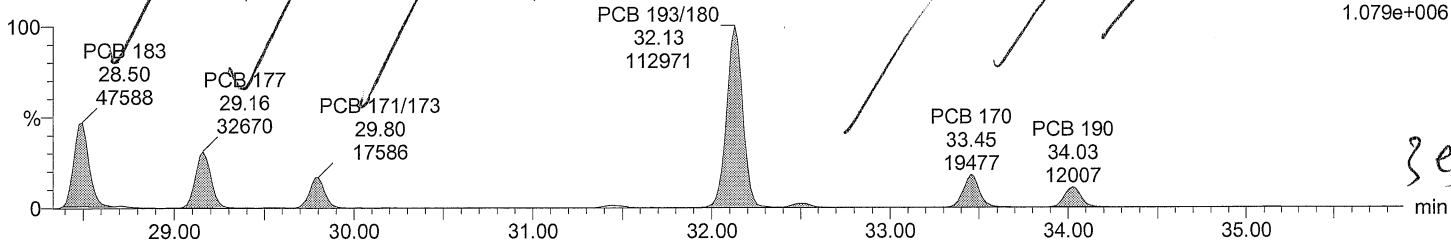
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

Total HpCB F6

M2160219BS003 Smooth(SG,1x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F6:SIR of 14 channels,EI+
393.8025
1.079e+006

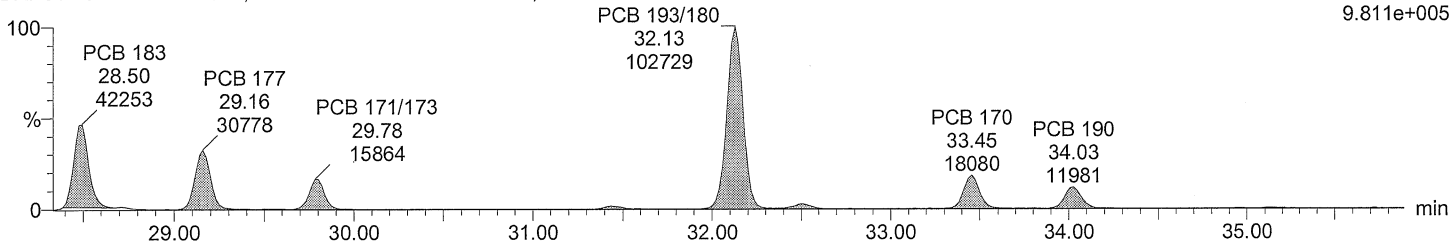


yes

Total HpCB F6

M2160219BS003 Smooth(SG,1x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

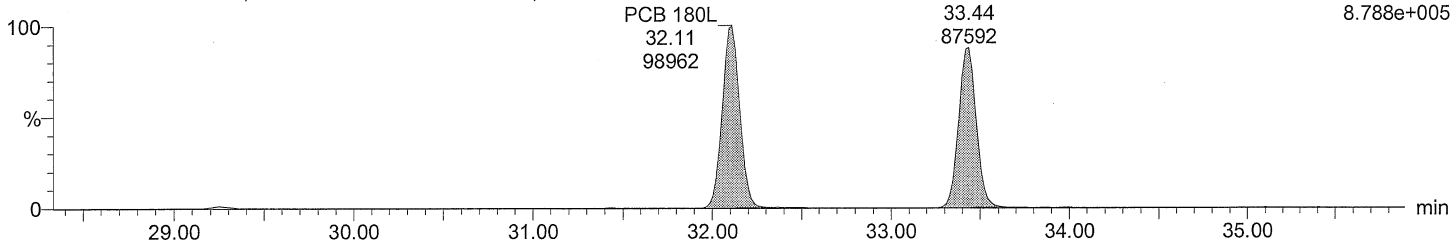
F6:SIR of 14 channels,EI+
395.7995
9.811e+005



Total HpCB labeled F6

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

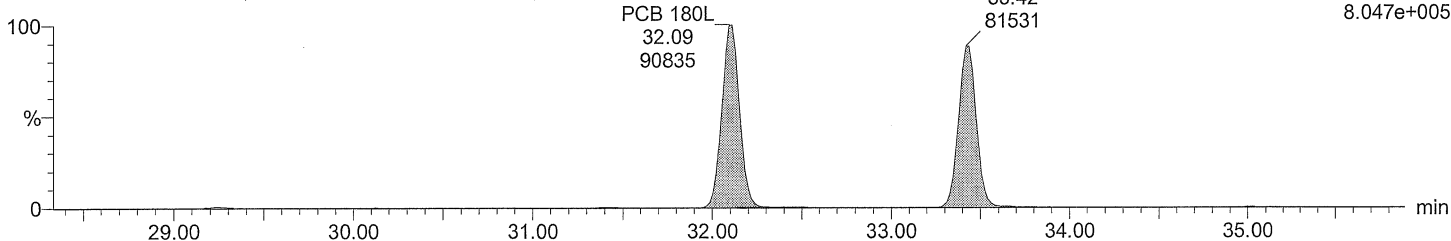
F6:SIR of 14 channels,EI+
405.8428
8.788e+005



Total HpCB labeled F6

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F6:SIR of 14 channels,EI+
407.8398
8.047e+005



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

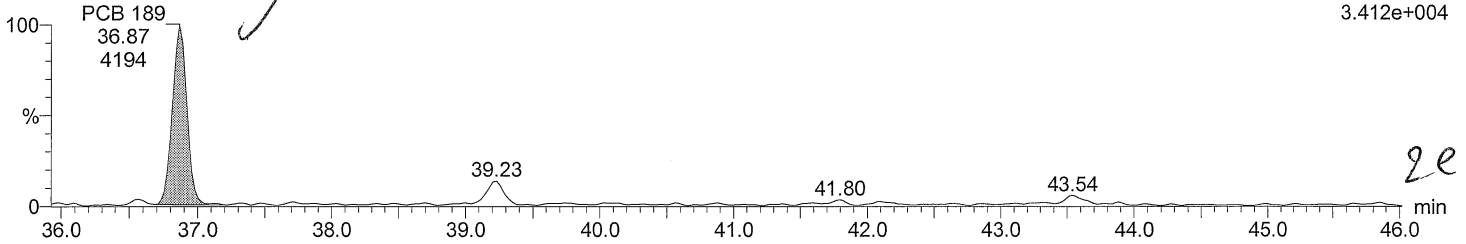
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

Total HpCB F7

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

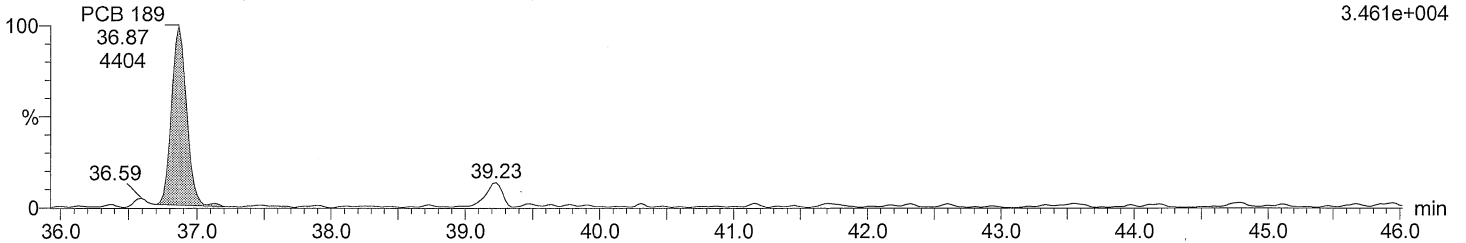
F7:SIR of 18 channels,EI+
393.8025
3.412e+004



Total HpCB F7

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

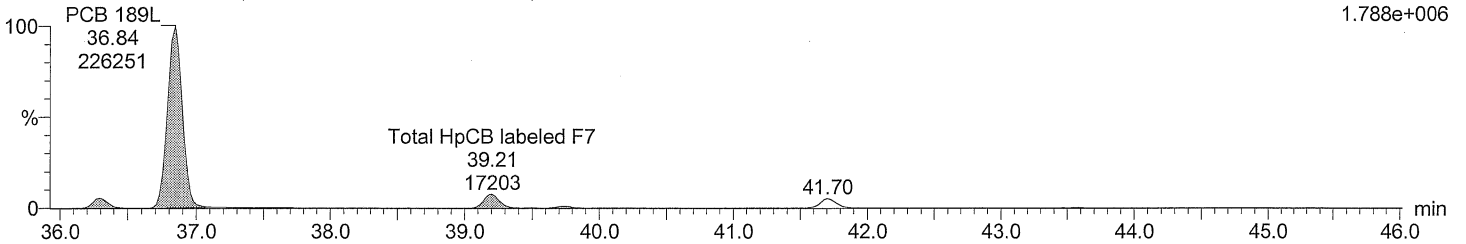
F7:SIR of 18 channels,EI+
395.7995
3.461e+004



Total HpCB labeled F7

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

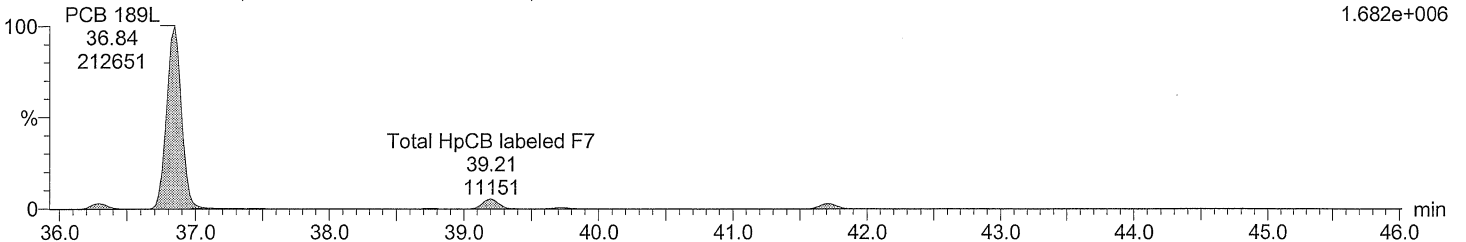
F7:SIR of 18 channels,EI+
405.8428
1.788e+006



Total HpCB labeled F7

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F7:SIR of 18 channels,EI+
407.8398
1.682e+006

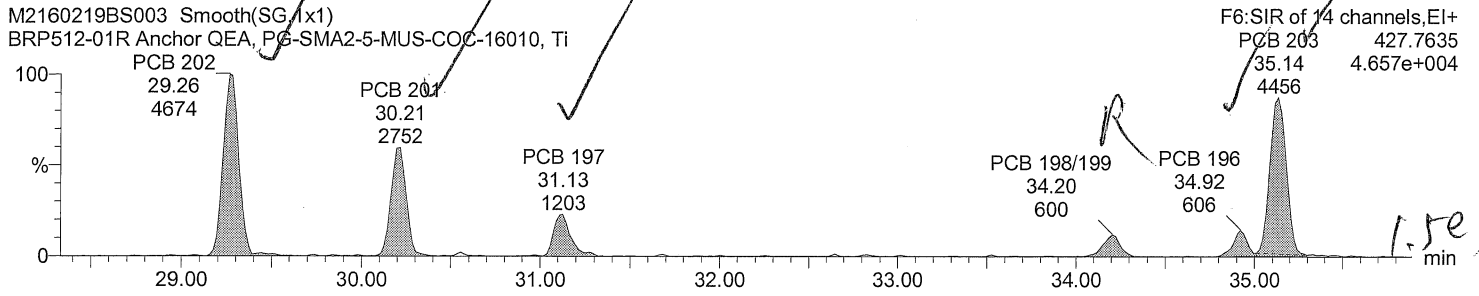


Dataset: C:\MassLynx\Default.pro\QLD\M2160219_samples_1668A.qld

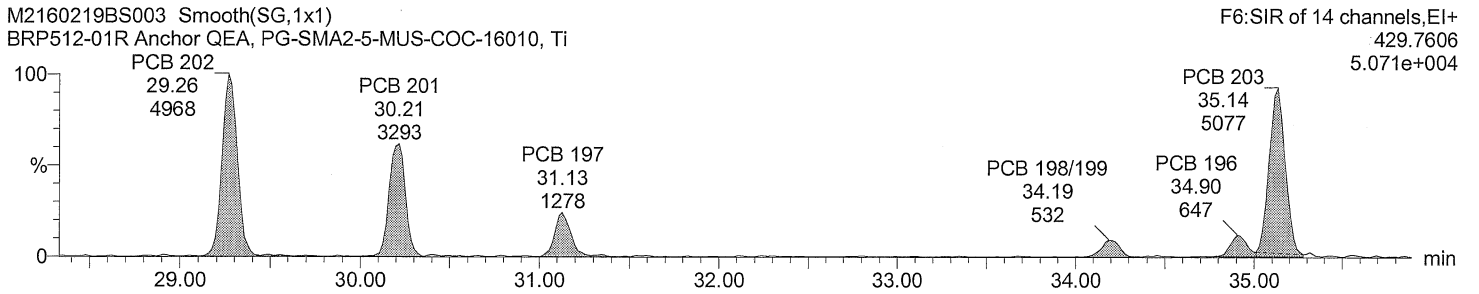
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

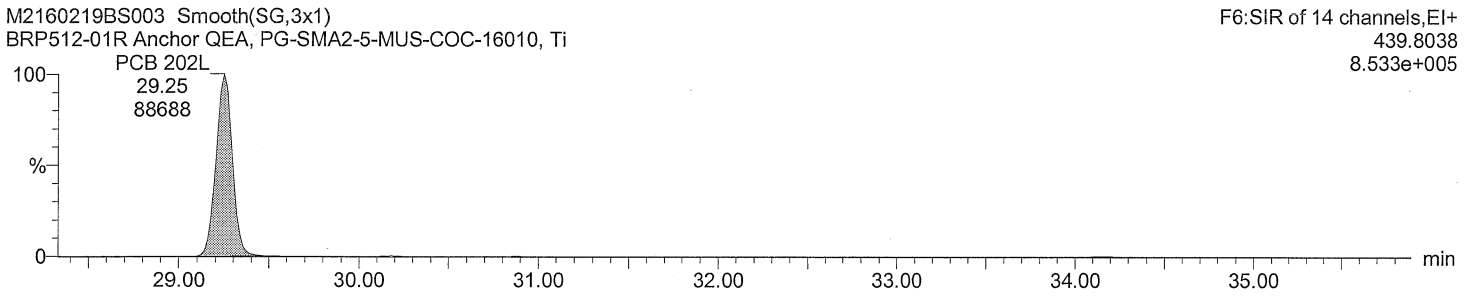
Total OcCB F6



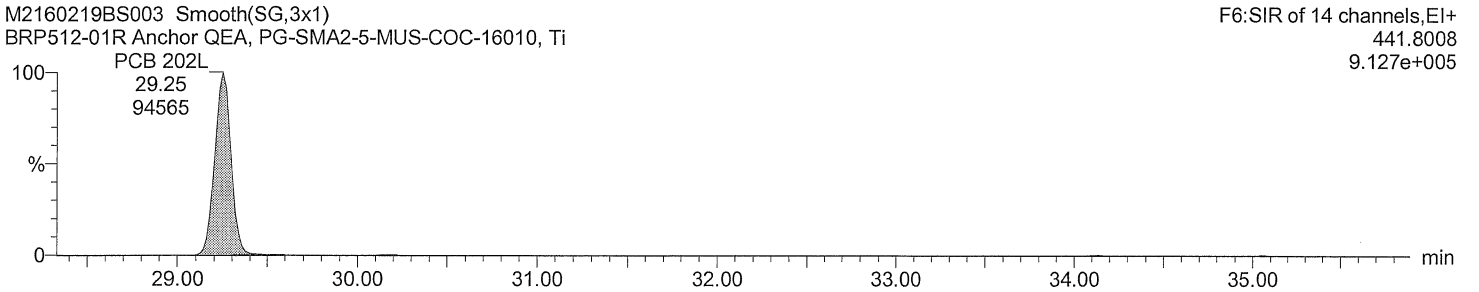
Total OcCB F6



Total OcCB labeled F6



Total OcCB labeled F6



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: BRP512-01R

Vial: 3

Date: 19-FEB-2016

Time: 13:47:37

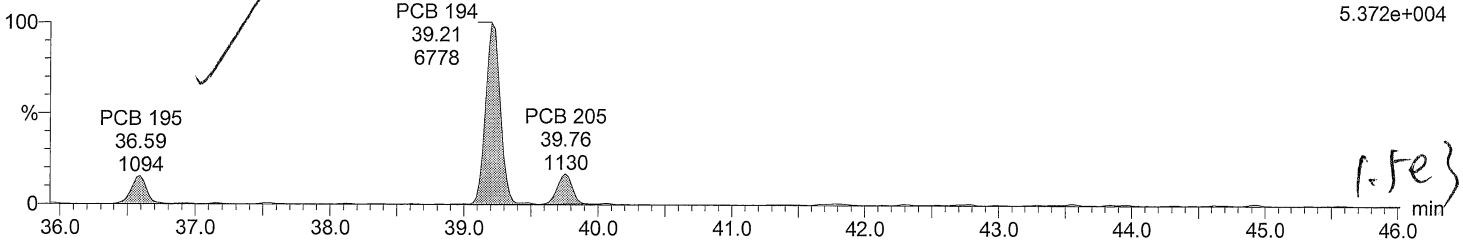
Instrument: Autospec-UltimaE

Total OcCB F7

M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F7:SIR of 18 channels,EI+
427.7635
5.372e+004

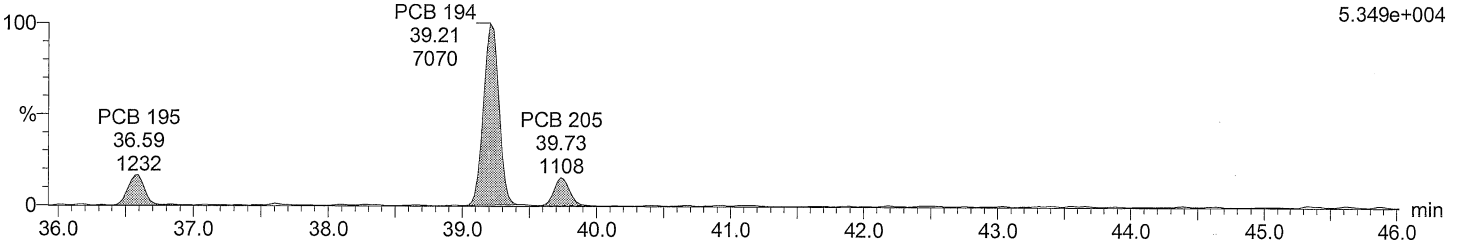


Total OcCB F7

M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F7:SIR of 18 channels,EI+
429.7606
5.349e+004

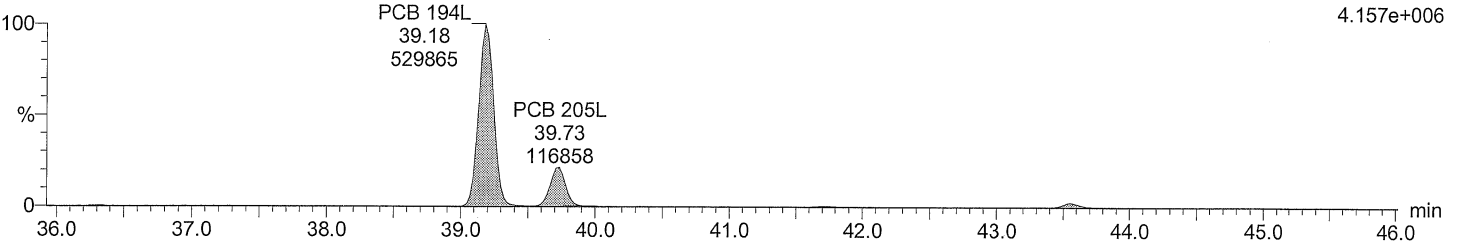


Total OcCB labeled F7

M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F7:SIR of 18 channels,EI+
439.8038
4.157e+006

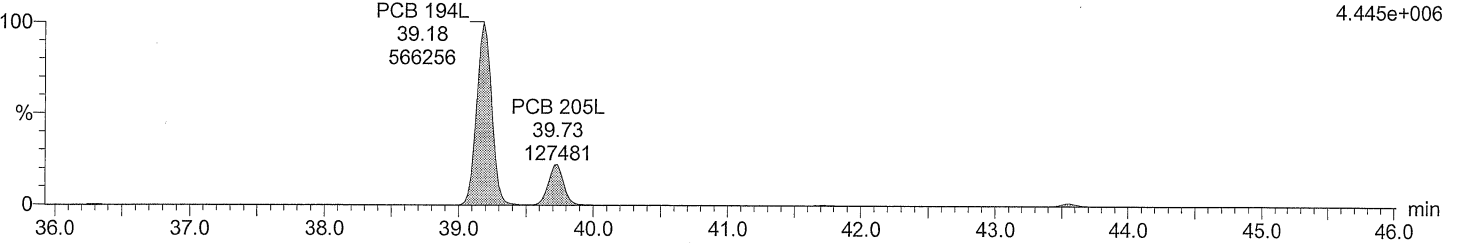


Total OcCB labeled F7

M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F7:SIR of 18 channels,EI+
441.8008
4.445e+006



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: BRP512-01R

Vial: 3

Date: 19-FEB-2016

Time: 13:47:37

Instrument: Autospec-UltimaE

Total NoCB F7

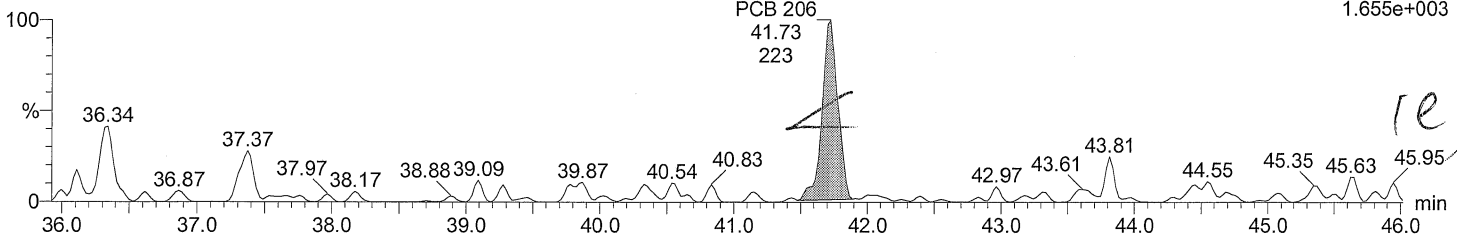
M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F7:SIR of 18 channels,EI+

461.7246

1.655e+003



Total NoCB F7

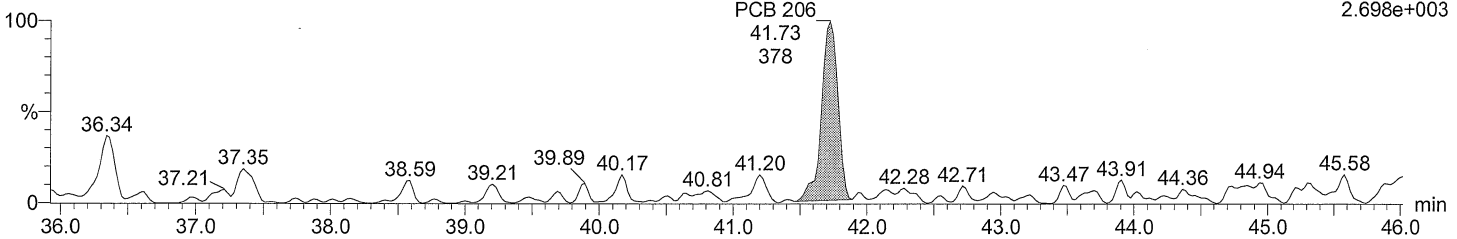
M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F7:SIR of 18 channels,EI+

463.7216

2.698e+003



Total NoCB labeled F7

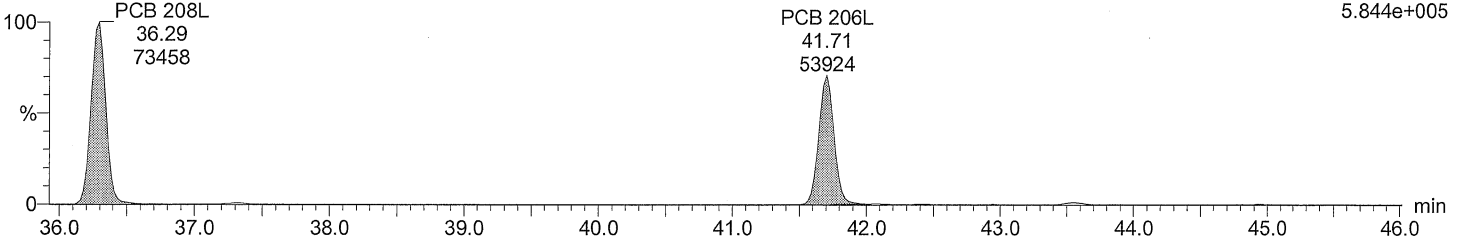
M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F7:SIR of 18 channels,EI+

473.7648

5.844e+005



Total NoCB labeled F7

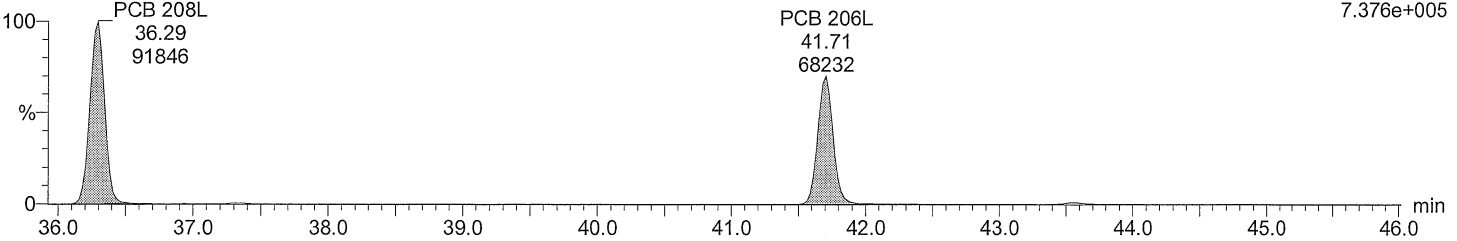
M2160219BS003 Smooth(SG,3x1)

BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti

F7:SIR of 18 channels,EI+

475.7619

7.376e+005



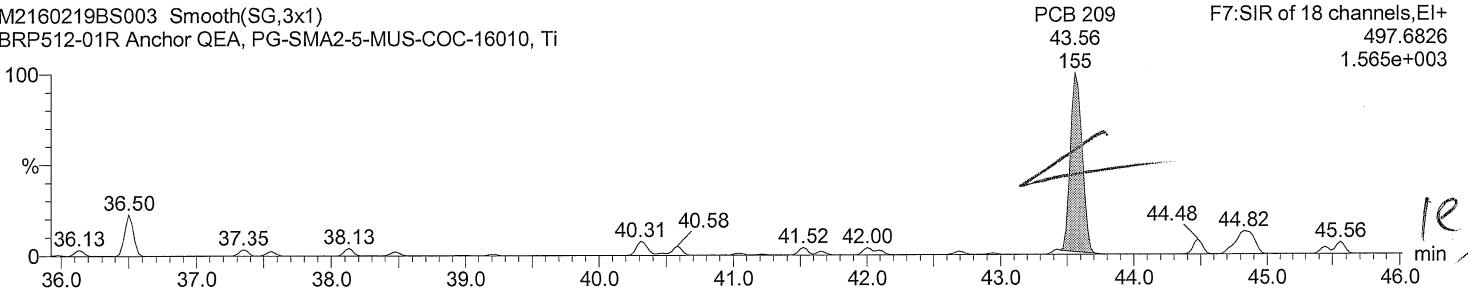
Dataset: C:\MassLynx\Default.pro\QLD\M2160219_samples_1668A.qld

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

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

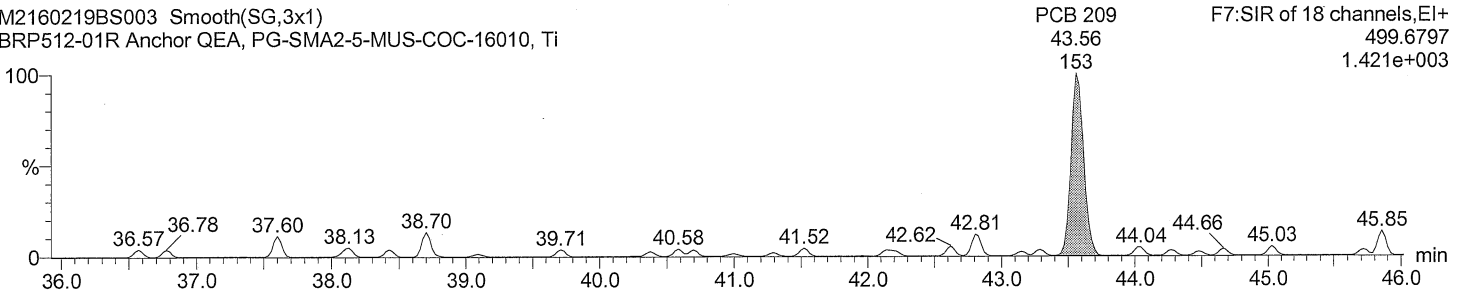
Total DeCB F7

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



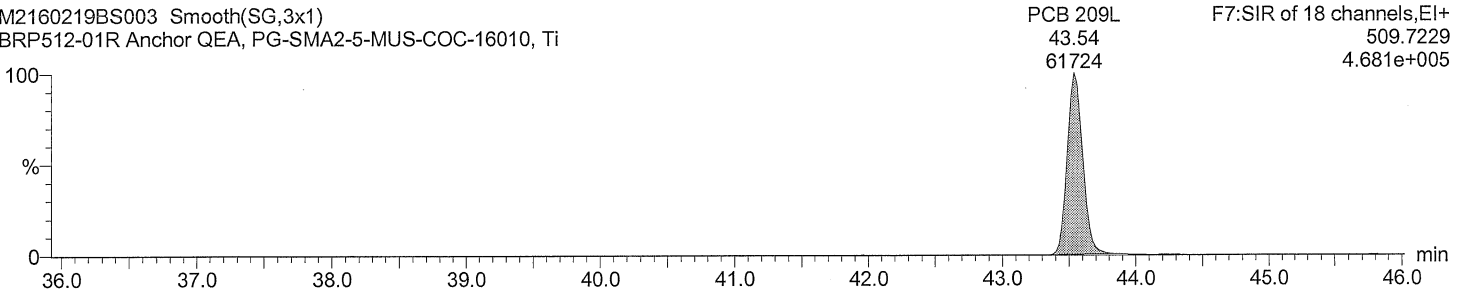
Total DeCB F7

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



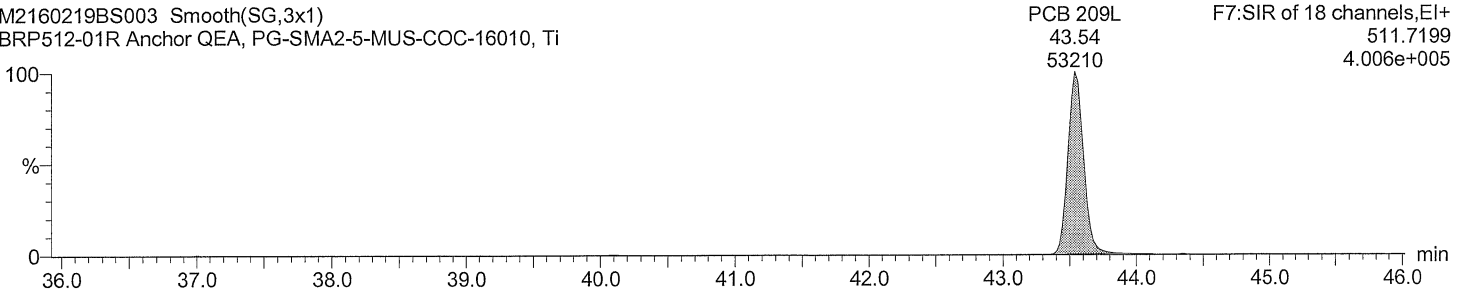
Total DeCB labeled F7

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Total DeCB labeled F7

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



Acquired Date

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

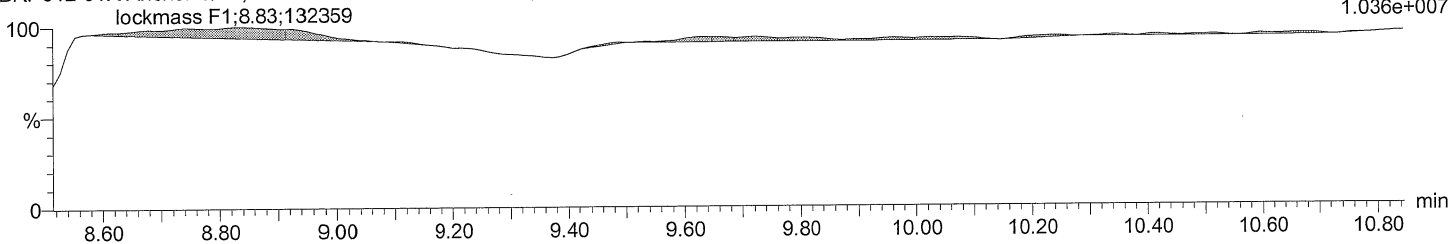
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time

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

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

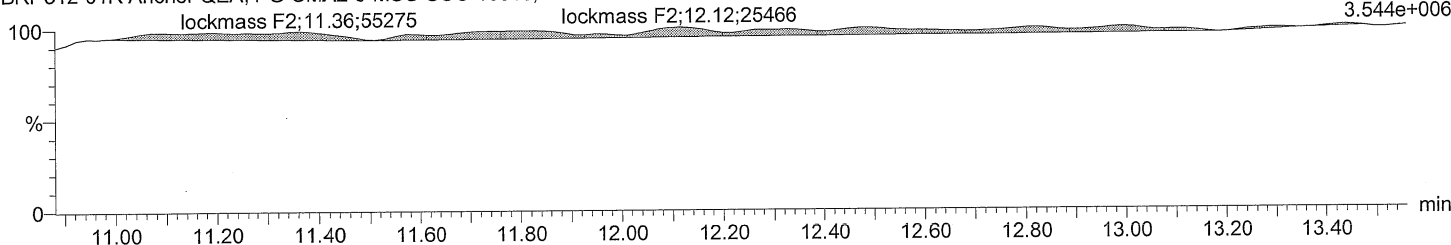
lockmass F1

M2160219BS003 Smooth(SG,3x1) F1:SIR of 10 channels,EI+
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti 218.9856
1.036e+007



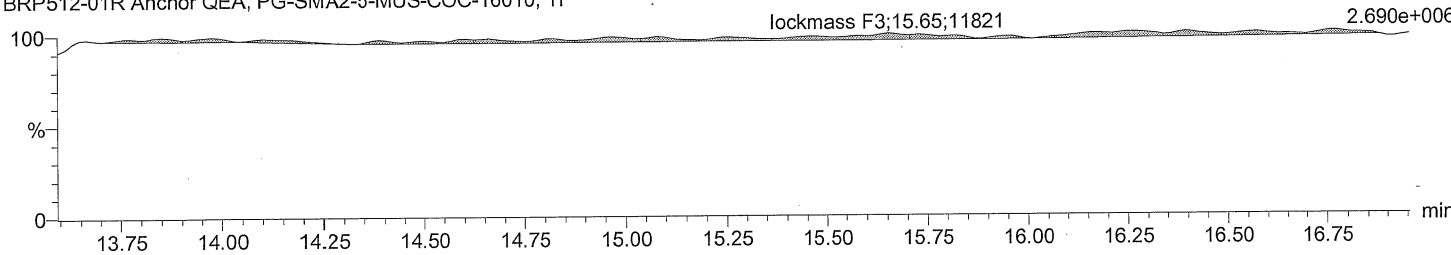
lockmass F2

M2160219BS003 Smooth(SG,3x1) F2:SIR of 16 channels,EI+
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti 242.9856
3.544e+006



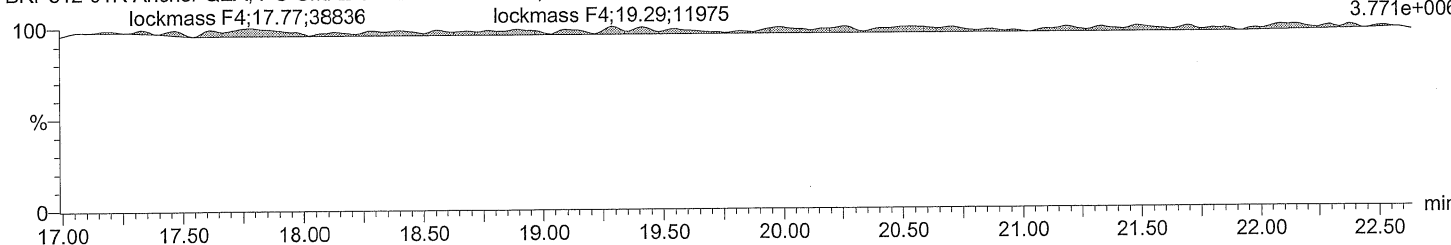
lockmass F3

M2160219BS003 Smooth(SG,3x1) F3:SIR of 14 channels,EI+
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti 292.9824
2.690e+006



lockmass F4

M2160219BS003 Smooth(SG,3x1) F4:SIR of 14 channels,EI+
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti 330.9792
3.771e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

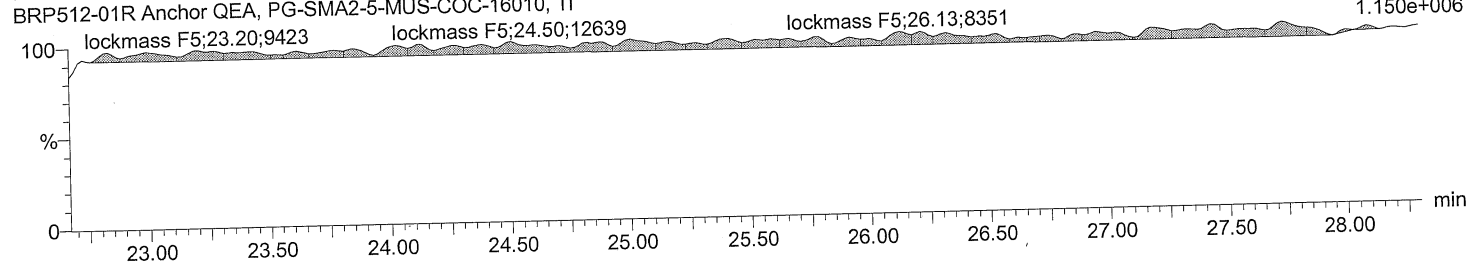
Dataset: C:\MassLynx\Default.pro\QLDM2160219_samples_1668A.qld

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

Description: BRP512-01R
Vial: 3
Date: 19-FEB-2016
Time: 13:47:37
Instrument: Autospec-UltimaE

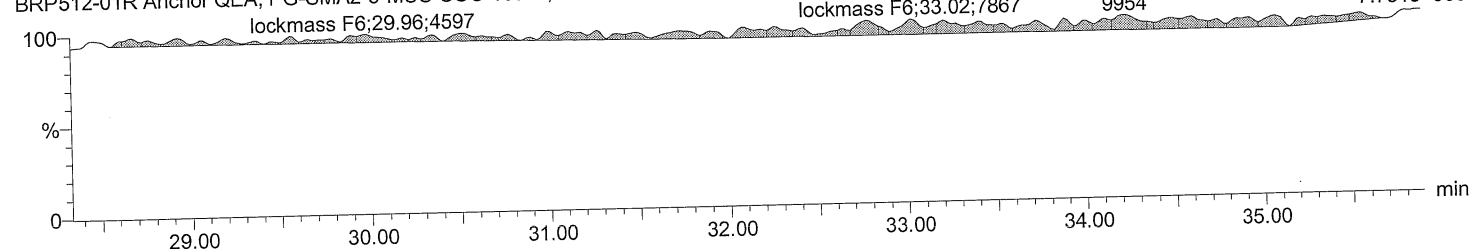
lockmass F5

M2160219BS003 Smooth(SG,3x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



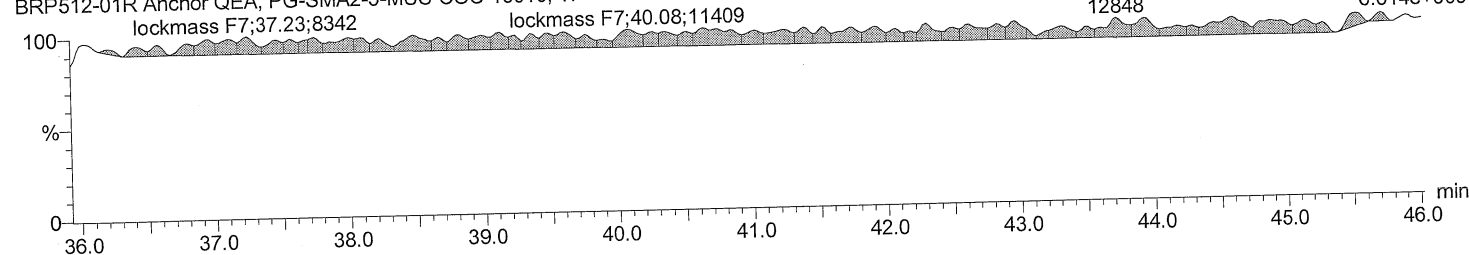
lockmass F6

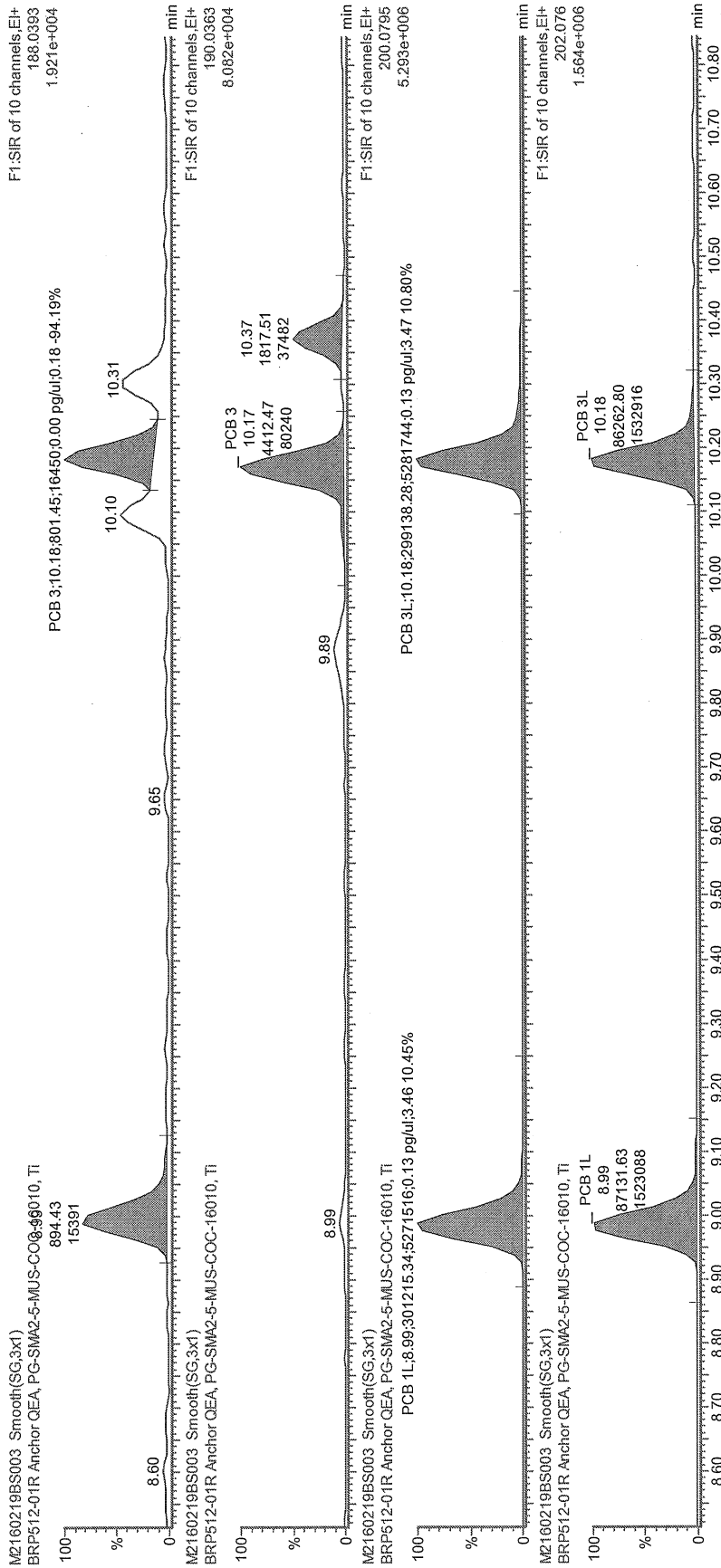
M2160219BS003 Smooth(SG,3x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti



lockmass F7

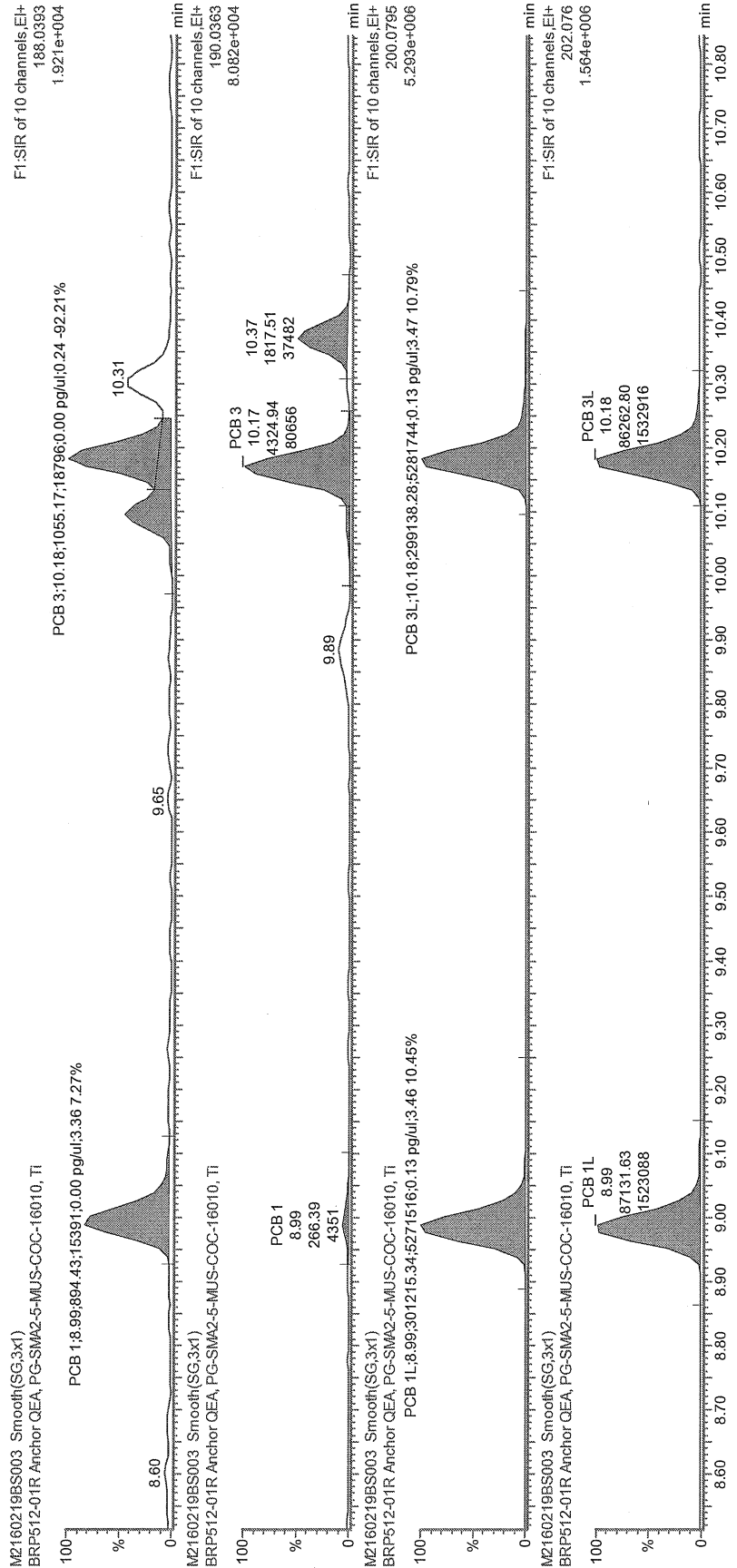
M2160219BS003 Smooth(SG,3x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, Ti





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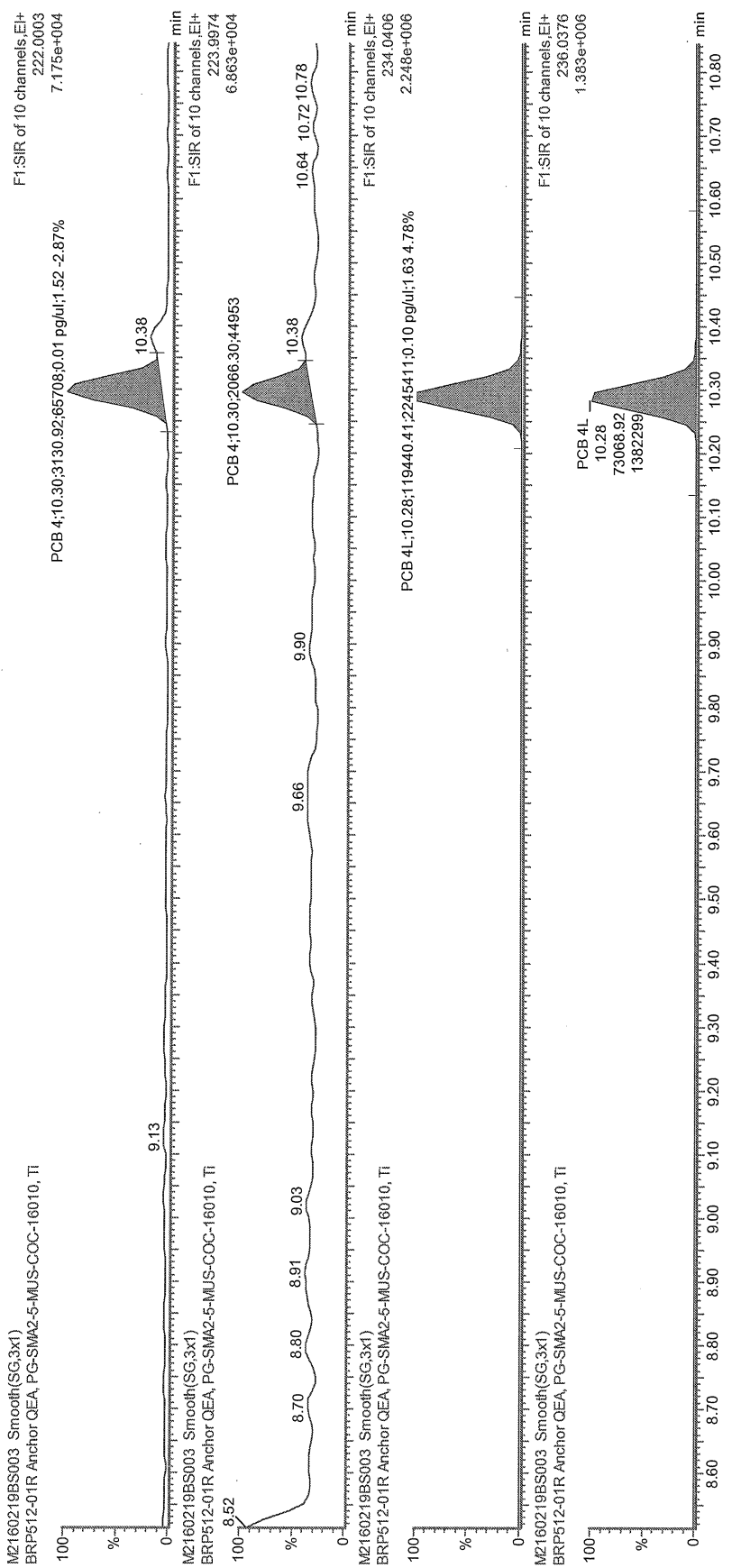
FEB 23 2016



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2016-02-22

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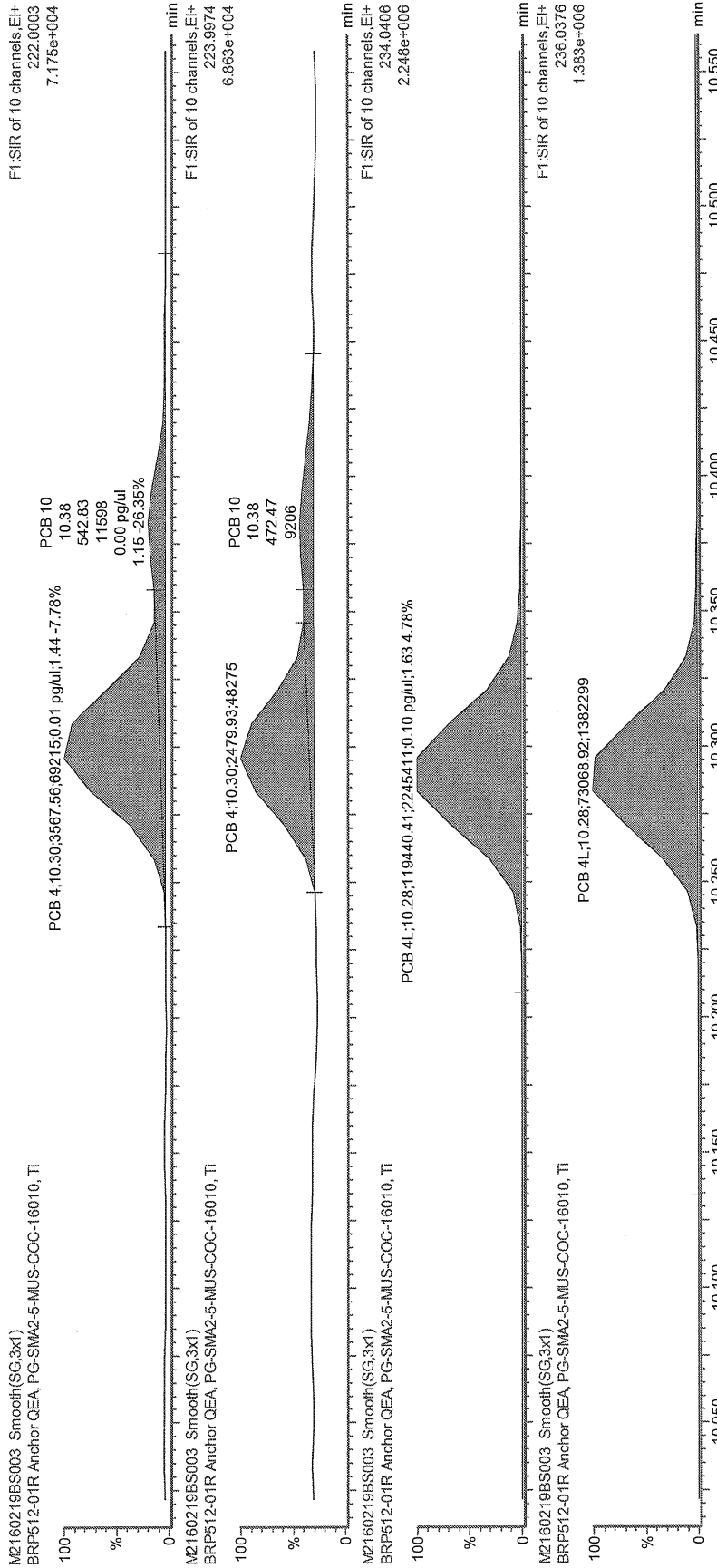


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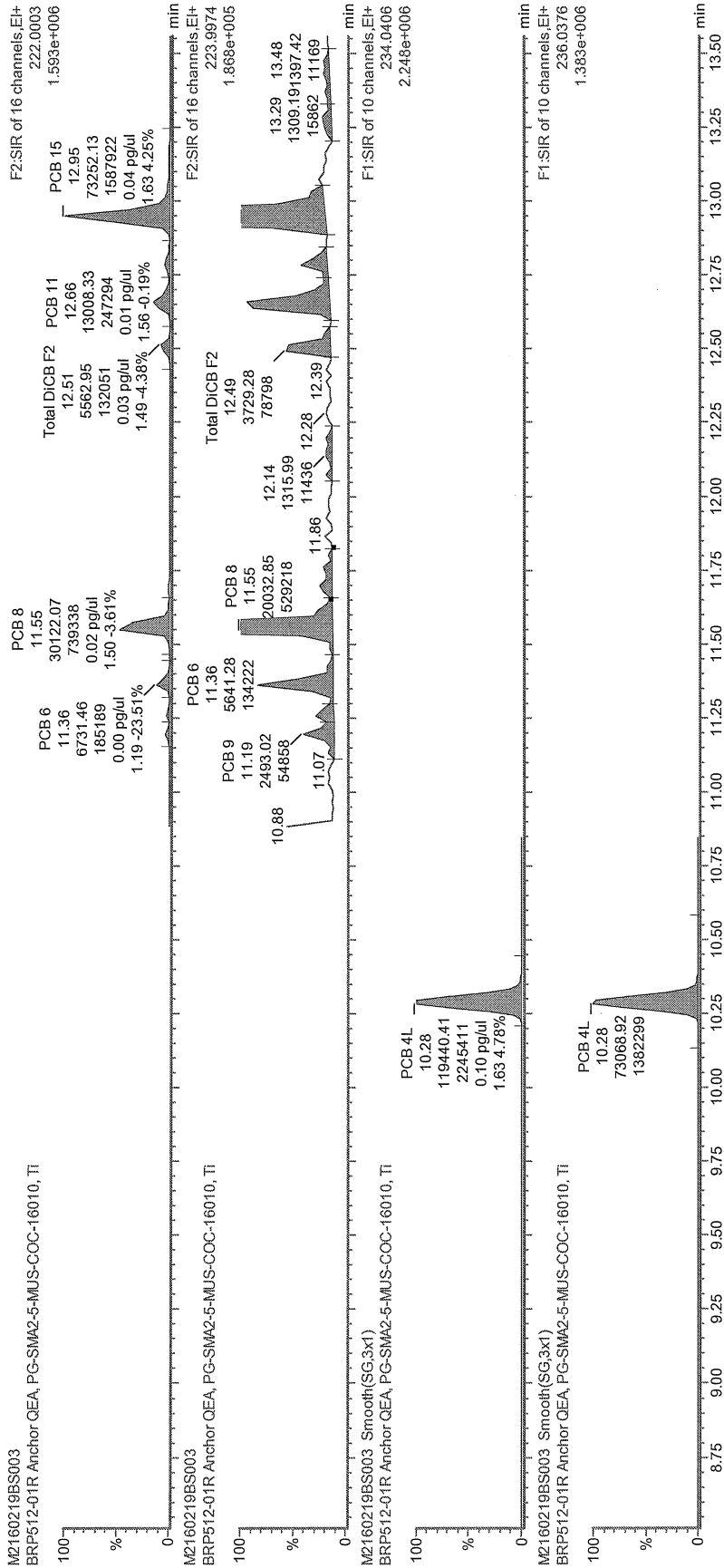
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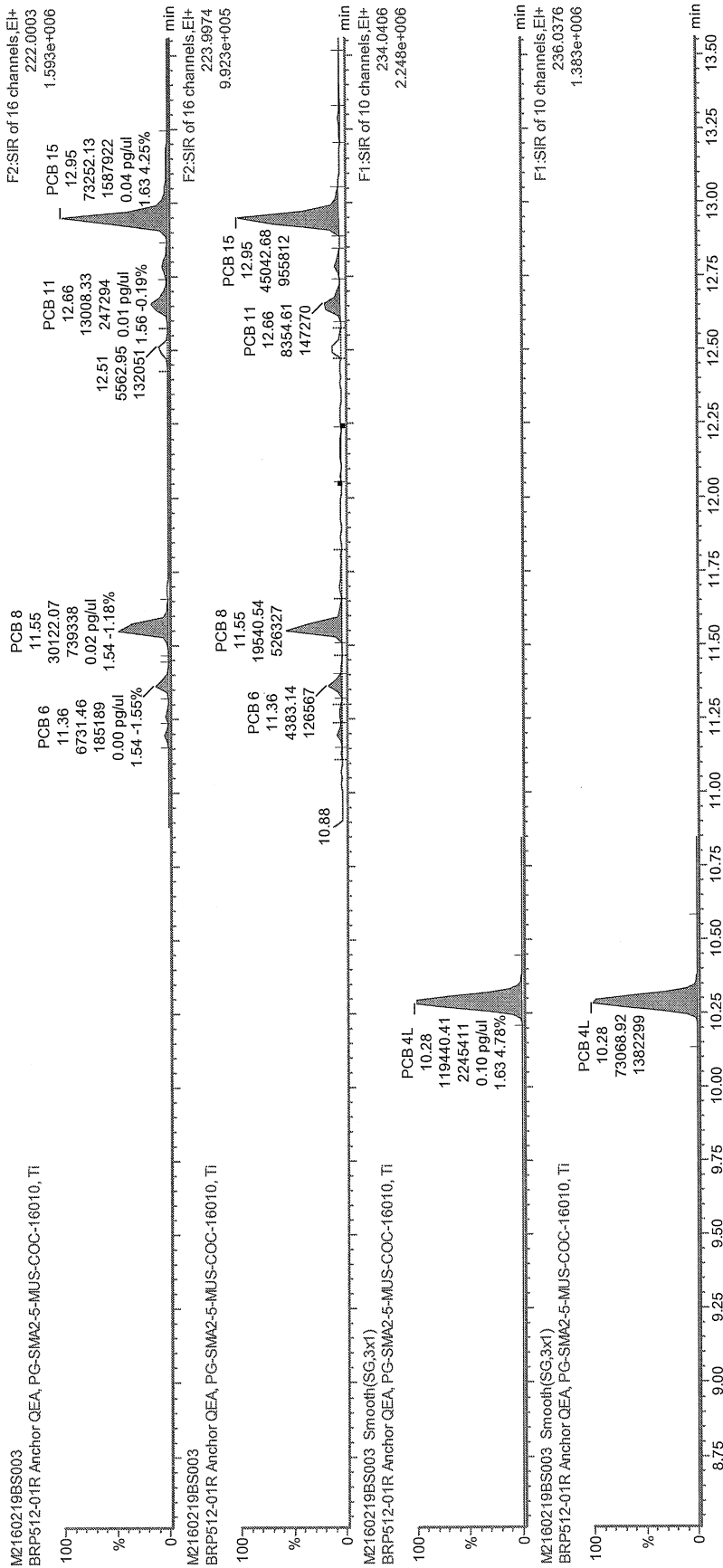


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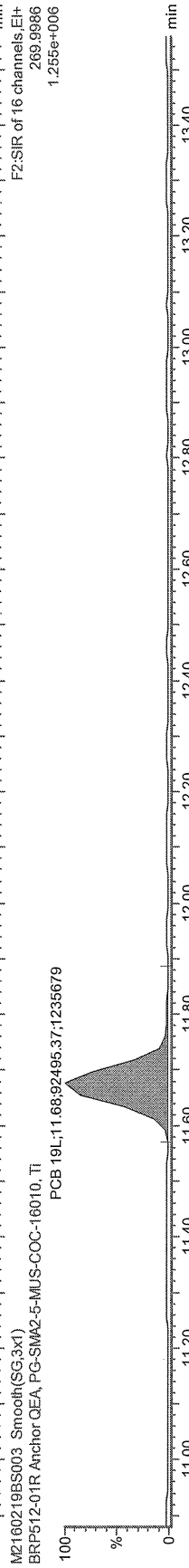
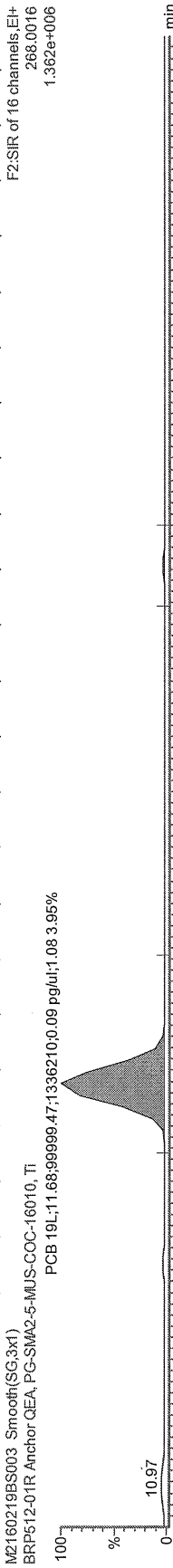
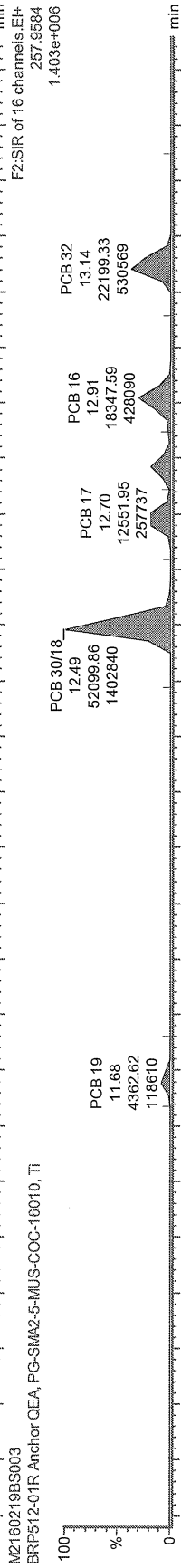
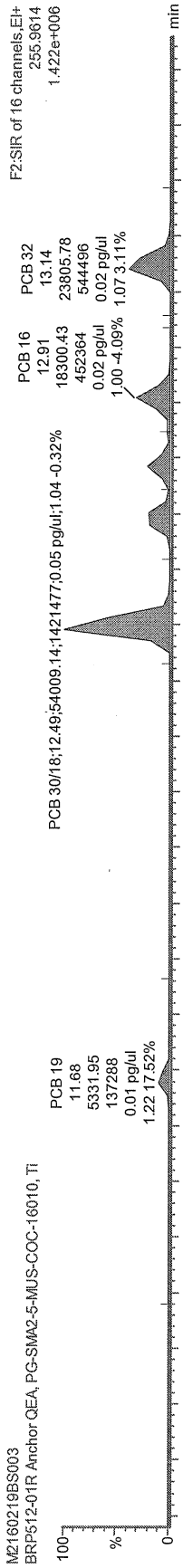
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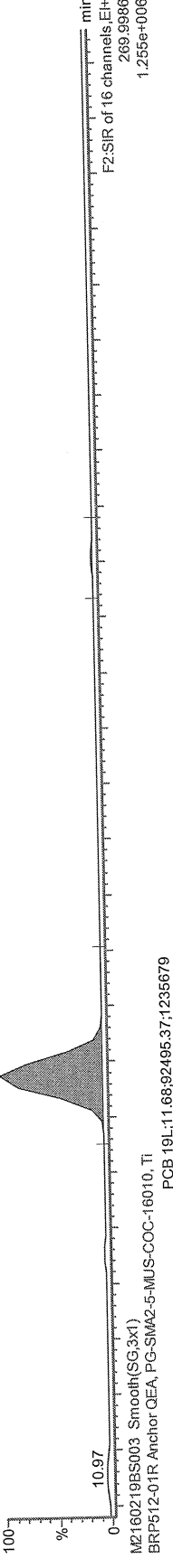
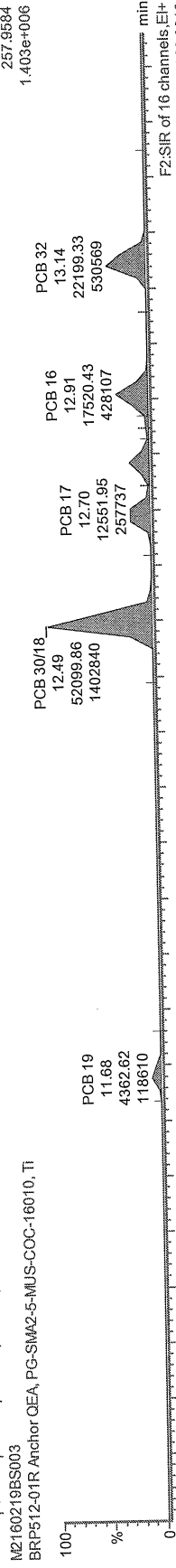
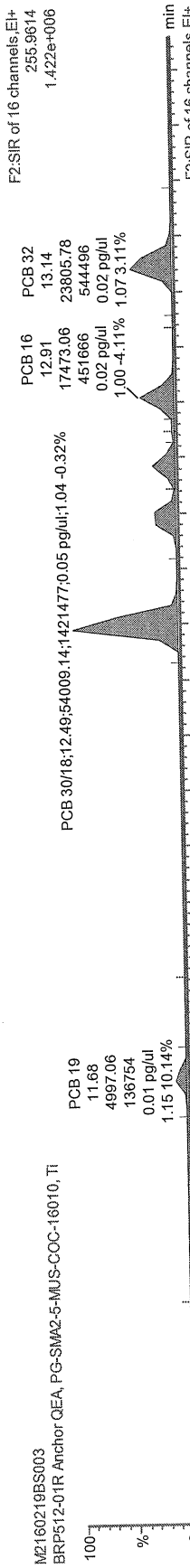
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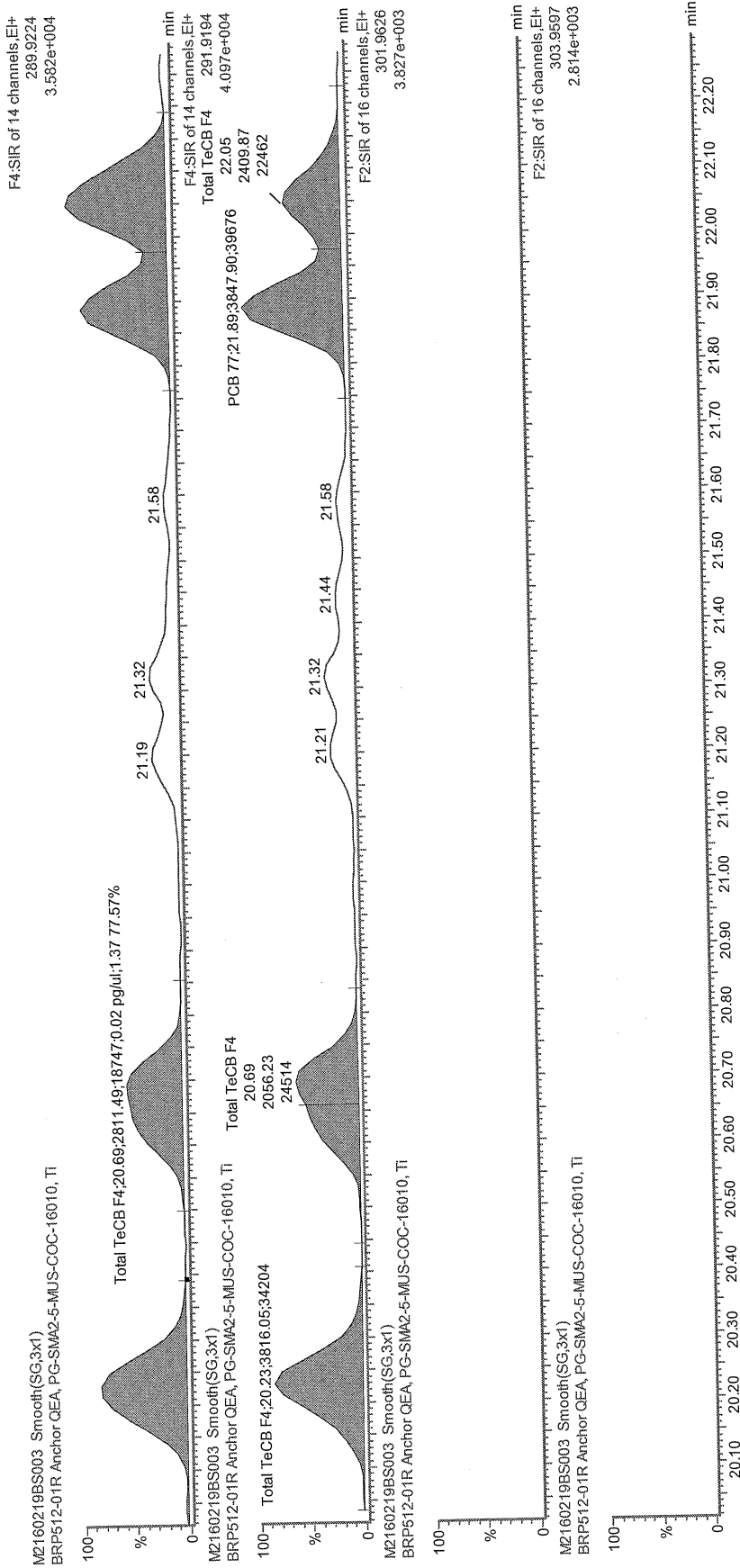
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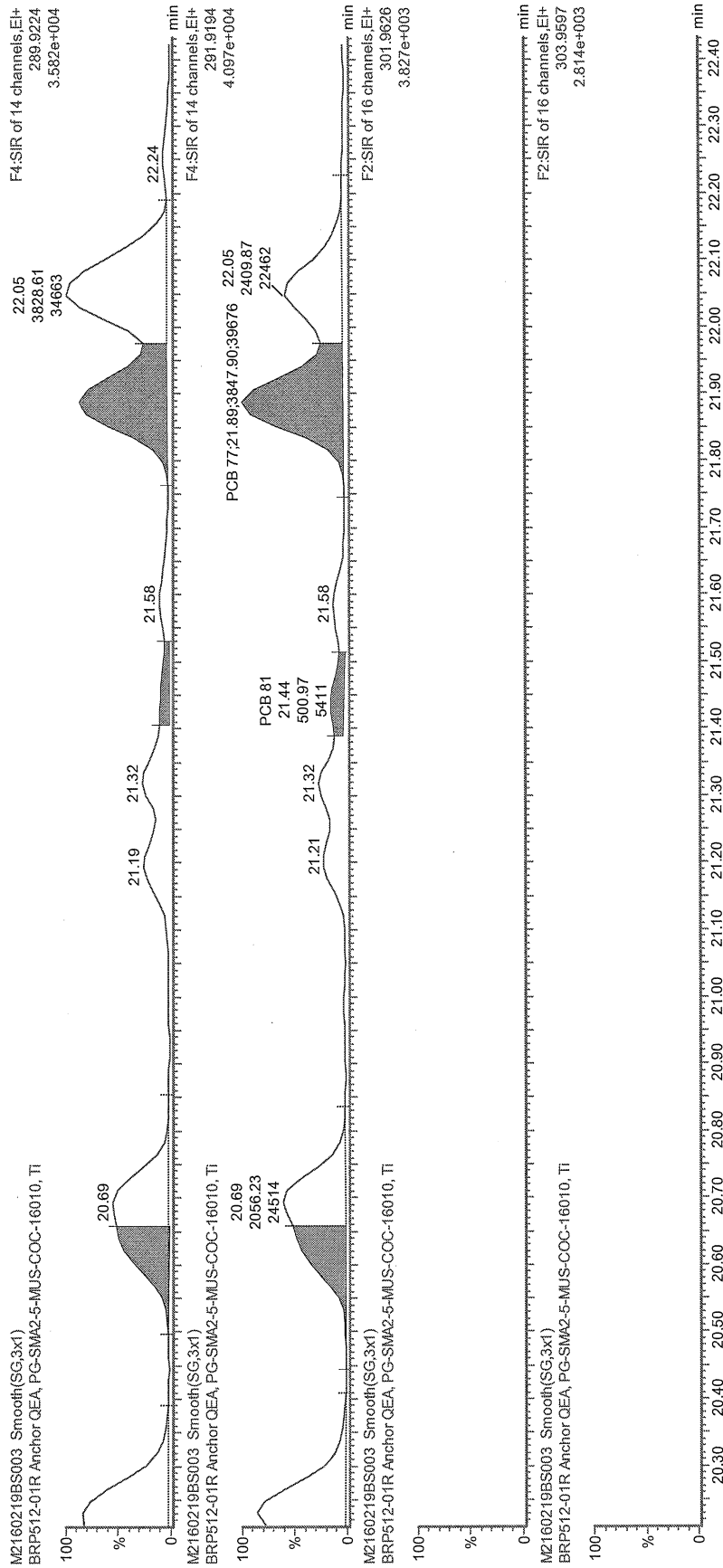
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M2160219BS003 Smooth(SG,2x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1
 F4:SIR of 14 channels, EI+
 325.8805
 1.726e+006

PCB 95;17.77;93673.68;1250678;0.12 pg/ul;1.66 7.21%
 PCB 11390/101;19.78;141502.94;1724399;0.16 pg/ul;1.64 5.91%
 PCB 110/115;21.32;90659.30;1036869;0.11 pg/ul;1.65 6.22%

PCB 84
 18.52
 8026.86
 100790
 0.01 pg/ul
 1.65 6.77%

PCB 88/91
 18.36
 4828.59
 60606
 17.47

PCB 103
 17.33
 1985.60
 22984

M2160219BS003 Smooth(SG,3x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1
 F3:SIR of 14 channels, EI+
 337.8775
 1.151e+002

Total PCB F4
 22.05
 2925.40
 27755

PCB 82
 21.58
 1949.40
 22314

PCB 92
 19.36
 10929.66
 134042

PCB 84
 18.50
 4850.37
 60441
 18.84

M2160219BS003 Smooth(SG,3x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1
 F4:SIR of 14 channels, EI+
 327.8775
 5.017e+004

PCB 84
 18.50
 4850.37
 60441
 18.84

PCB 88/91
 18.36
 4828.59
 60606
 17.47

PCB 103
 17.33
 1985.60
 22984

PCB 92
 19.36
 10929.66
 134042

M2160219BS003 Smooth(SG,3x1)
 BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1
 F3:SIR of 14 channels, EI+
 339.9178
 2.590e+002

PCB 84
 18.52
 8026.86
 100790
 0.01 pg/ul
 1.65 6.77%

PCB 88/91
 18.36
 4828.59
 60606
 17.47

PCB 103
 17.33
 1985.60
 22984

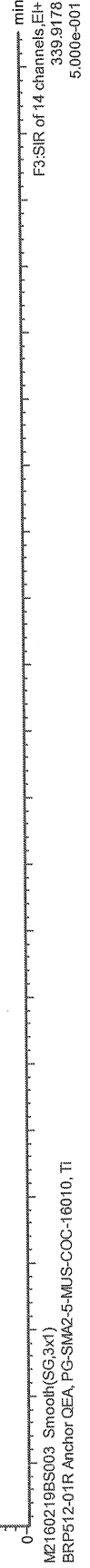
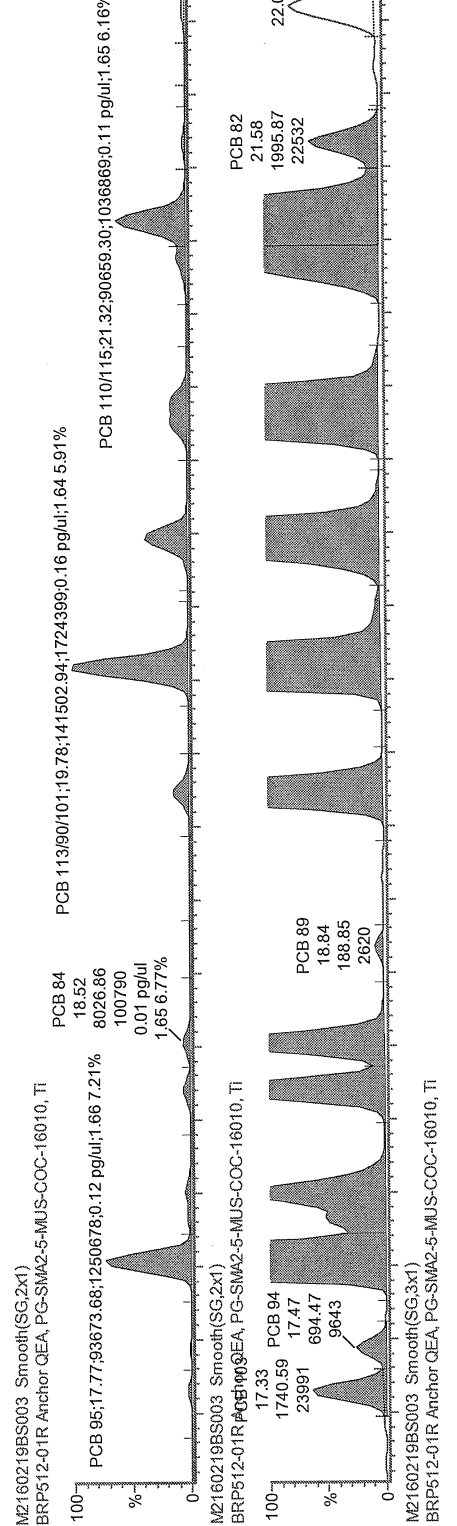
PCB 92
 19.36
 10929.66
 134042

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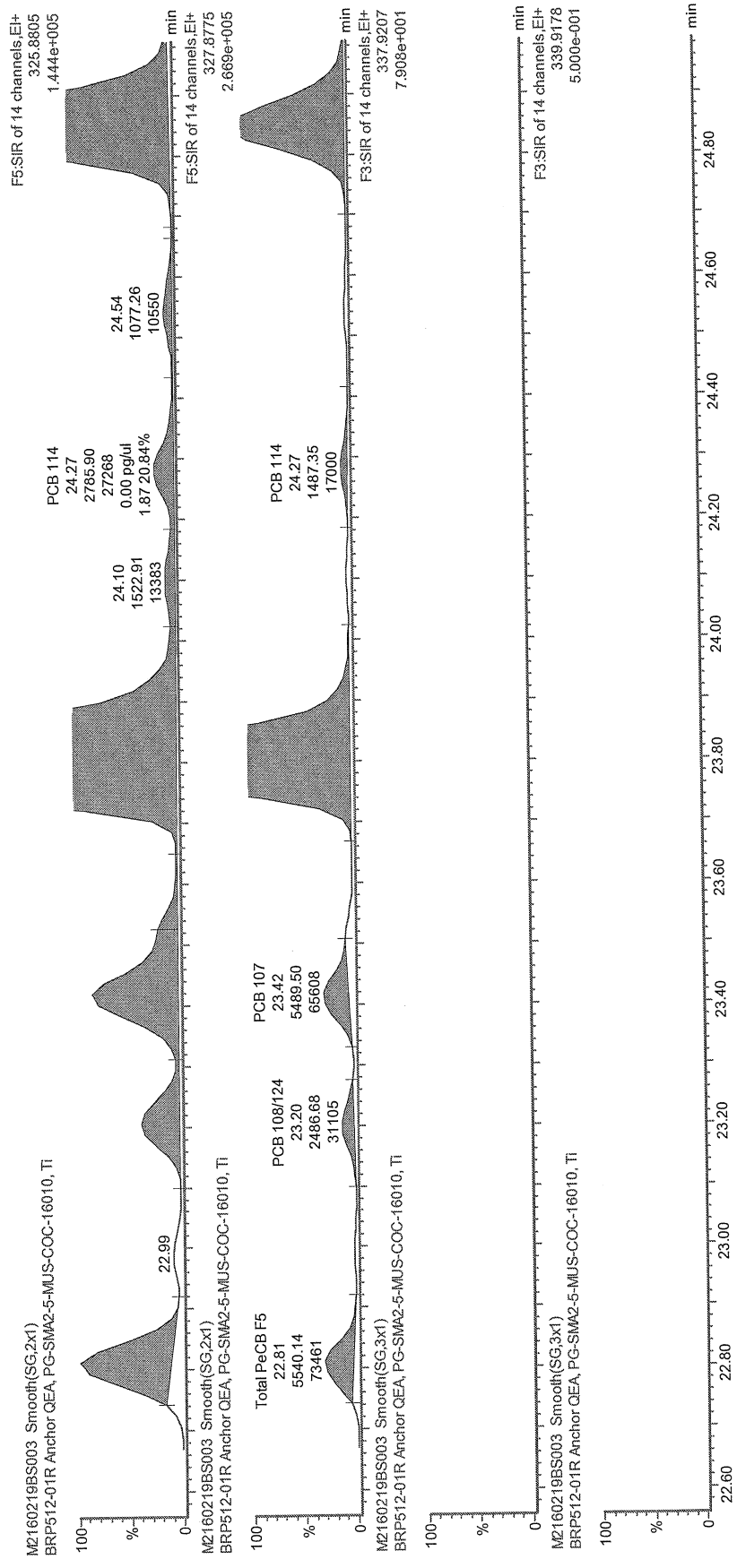
F4:SIR of 14 channels, EI+
325.8805
1.726e+006



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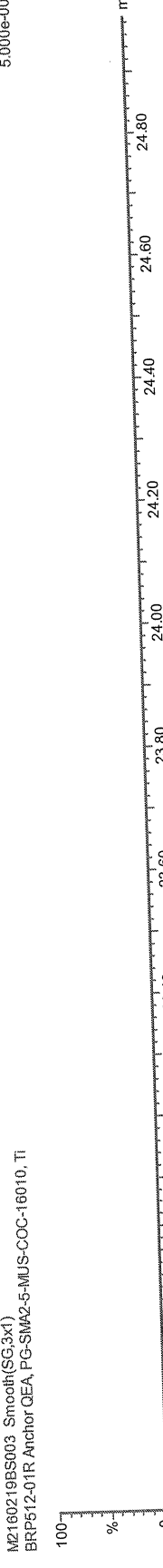
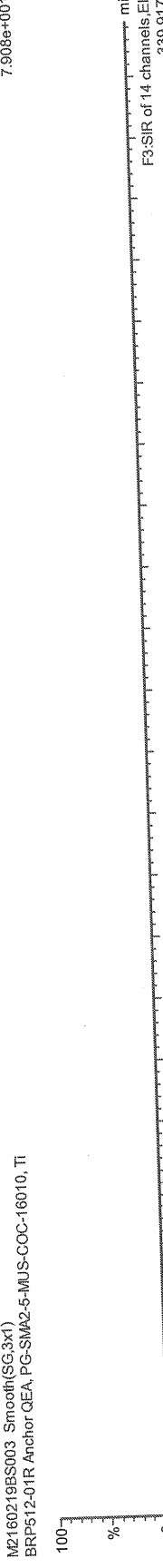
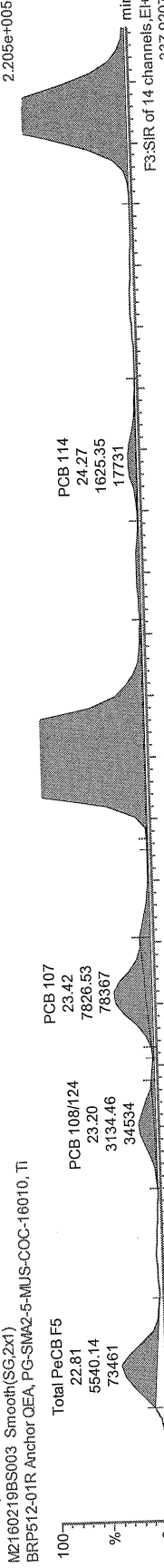
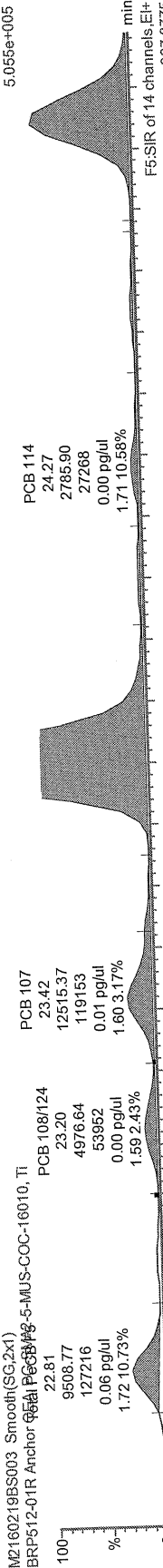
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OR

F5:SIR of 14 channels.EI+
325.8805
5.055e+005



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F4:SIR of 14 channels.EI+
359.8415
5.139e+004

F4:SIR of 14 channels.EI+
361.8385
4.260e+005

F4:SIR of 14 channels.EI+
371.8817
1.445e+006

F4:SIR of 14 channels.EI+
373.8788
1.140e+006

F4:SIR of 14 channels.EI+
371.8817
1.445e+006

F4:SIR of 14 channels.EI+
373.8788
1.140e+006

F4:SIR of 14 channels.EI+
371.8817
1.445e+006

F4:SIR of 14 channels.EI+
373.8788
1.140e+006

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

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M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

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BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

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BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

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BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

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BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

M2160219BS003 Smooth(SG,3x1)
BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

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BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

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BRP512-01R Anchor QEA, PG-SMA2-5-MUS-COC-16010, T1

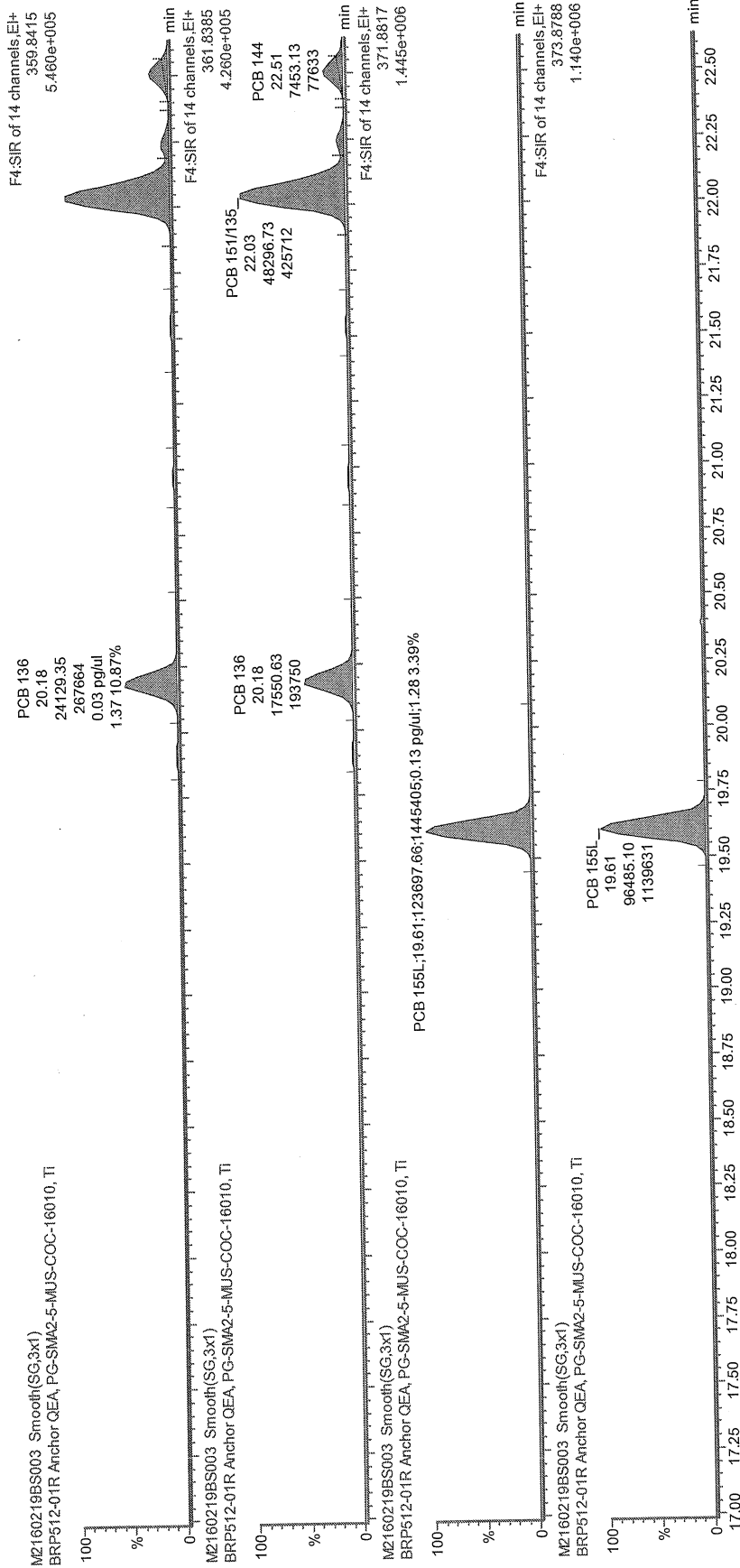
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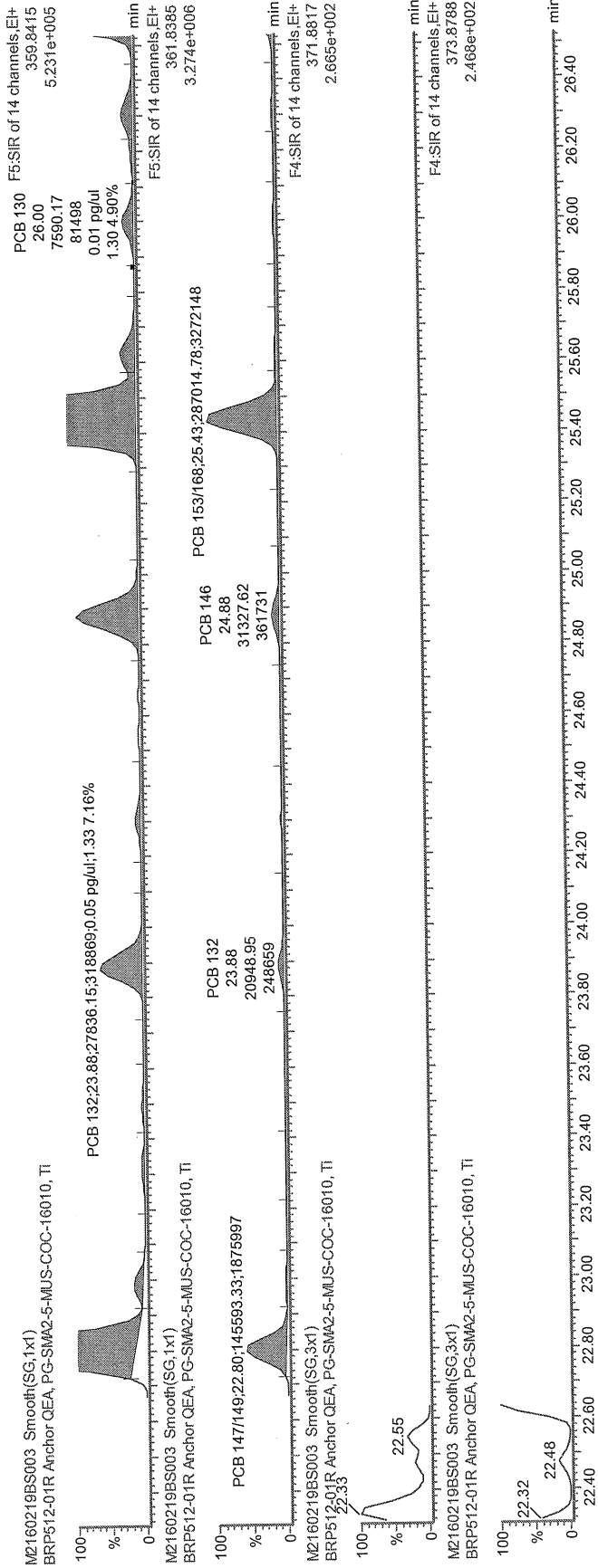


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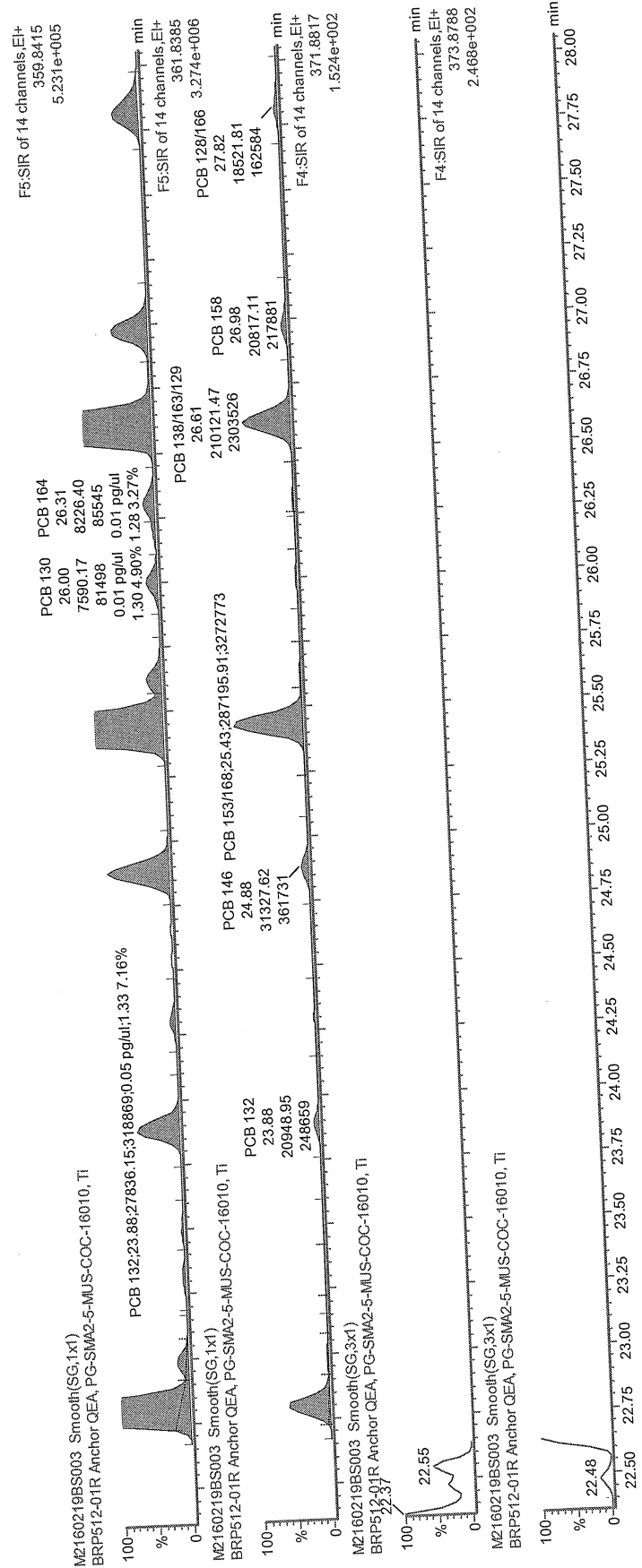
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Analysis Type :

Maxxam ID # :

Analyte:

Instr. File Name :

Injection Date :
Injection Time :

DAILY RFs
Using post concal

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

Analyte Area (Primary + Secondary Ions) =	<input type="text" value="8.00E+03"/>	=A	<input type="text" value="1.05"/>
Recovery Standard Area (Primary + Secondary Ions) =	<input type="text" value="1.34E+06"/>	=B	<input type="text" value="1.128"/>
Internal Standard Area (Primary + Secondary Ions) =	<input type="text" value="2.04E+05"/>	=C	
Amount of Recovery Standard added to the Extract (pg, ng) =	<input type="text" value="11.11"/>	=D	
Amount of Internal Std. added to the sample (pg, ng) =	<input type="text" value="2.00"/>	=E	
Average RRF of Analyte =	<input type="text" value="0.988"/>	=F	
RRF of Internal Standard =	<input type="text" value="1.419"/>	=G	
Amount of Sample Extracted (g or L) =	<input type="text" value="10.134"/>	=H	
SPLIT / Dilution Factor =	<input type="text" value="1"/>	=I	
Analyte Conc. (pg/g, pg/L, Total pg) = or (ng/g, ng/L, Total ng) =	<input type="text" value="0.0078"/>	=A*E/(C*H*F)*I	<input type="text" value="0.007"/>
Internal Standard Recovery (%) =	<input type="text" value="60"/>	=C*D*100/(B*E*G)	<input type="text" value="75"/>

Filename M2160219BS004
 Acquired 19/02/2016 14:37
 Cali File M2160219_209

Sample ID BRP513-01R
 Comments Anchor QEA, PG-SMA2-4-MUS-COC-16010, TI
 Instrument File Ultima 2
 Sample Size 10.134
 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	873	2.86	1179	-0.00066			-0.00066	*	no	1.082	-
	MoCB 190	8.99	306	yes					*				
2 PCB 2	188	10.10	374	1.18	692	-0.00057			-0.00057	*	yes	1.248	-
	MoCB 190	10.09	318	no					*				
3 PCB 3	188	10.18	829	0.35	3190	-0.00066			-0.00066	*	Op-O	1.079	-
	MoCB 190	10.19	2361	no					*				
4 PCB 4	222	10.30	2363	1.52	3915	0.003741			-0.00103	9	yes	0.954	-
	DICB 224	10.31	1552	yes					9				
5 PCB 10	222	10.38	333	0.77	768	-0.00083			-0.00083	*	yes	1.177	-
	DICB 224	10.39	434	no					*				
6 PCB 9	222	11.20	1358	2.76	1850	-0.00092			-0.00092	*	no	1.357	-
	DICB 224	11.20	492	no					*				
7 PCB 7	222	NotFnd	*	*	*	-0.00108			-0.00108	*	no	1.155	-
	DICB 224	11.26	*	no					*				
8 PCB 6	222	11.36	4051	1.36	7024	0.002368			-0.00093	12	no	1.347	-
	DICB 224	11.37	2974	yes					16				
9 PCB 5	222	NotFnd	*	*	*	-0.00107			-0.00107	*	no	1.169	-
	DICB 224	11.51	*	no					*				
10 PCB 8	222	11.55	16832	1.56	27617	0.009596			-0.00096	48	no	1.307	-
	DICB 224	11.55	10785	yes					50				
11 PCB 14	222	NotFnd	*	*	*	-0.00093			-0.00093	*	no	1.351	-
	DICB 224	12.26	*	no					*				
12 PCB 11	222	12.66	13437	1.41	22989	0.007854			-0.00094	31	no	1.33	-
	DICB 224	12.65	9553	yes					32				
13 PCB 13/12	222	12.78	-2559	1.56	-4199.38	-0.00154	PCB 13/12 NDR		-0.00101	6	xL	1.241	-
	DICB 224	12.79	-1640.38	OK					10				
14 PCB 15	222	12.95	51646	1.53	85314	0.02964			-0.00144	124	no	0.871	-
	DICB 224	12.93	33668	yes					123				
15 PCB 19	256	11.68	2553	0.96	5215	0.00535			-0.00075	35	no	0.899	-
	TriCB 258	11.68	2662	yes					38				
16 PCB 30/18	256	12.49	35888	1.06	69627	0.032825			-0.00069	488	no	0.976	-
	TriCB 258	12.48	33739	yes					491				
17 PCB 17	256	12.70	6778	1.08	13038	0.007586			-0.00085	72	no	0.79	-
	TriCB 258	12.69	6260	yes					70				
18 PCB 27	256	12.78	7451	1.1	14249	0.005567			-0.00057	96	no	1.177	-
	TriCB 258	12.79	6798	yes					89				
19 PCB 24	256	NotFnd	*	*	*	-0.00071			-0.00071	*	no	0.948	-
	TriCB 258	12.87	*	no					*				
20 PCB 16	256	12.91	12347	1.03	24360	0.014124			-0.00084	156	no	0.793	-
	TriCB 258	12.90	12012	yes					154				
21 PCB 32	256	13.14	12809	1.06	24949	0.008593			-0.0005	149	no	1.335	-
	TriCB 258	13.14	12140	yes					157				
22 PCB 34	256	13.74	1223	1.09	2347	-0.00076			-0.00076	*	yes	1.484	-
	TriCB 258	13.73	1124	yes					*				
23 PCB 23	256	13.83	282	1.52	467	-0.00078			-0.00078	*	yes	1.446	-
	TriCB 258	13.83	185	no					*				
24 PCB 26/29	256	13.97	35406	1.01	70385	0.020058			-0.0007	101	no	1.614	-
	TriCB 258	13.99	34979	yes					106				
25 PCB 25	256	14.10	17951	1.02	35621	0.009443			-0.00065	51	no	1.735	-
	TriCB 258	14.11	17669	yes					50				
26 PCB 31	256	14.26	184410	1.02	366015	0.091757			-0.00061	544	no	1.835	-
	TriCB 258	14.28	181605	yes					564				
27 PCB 28/20	256	14.43	509958	1.01	1015018	0.276477			-0.00067	1465	no	1.688	-
	TriCB 258	14.45	505060	yes					1488				
28 PCB 21/33	256	14.55	88619	1.01	176764	0.047562			-0.00066	233	no	1.709	-
	TriCB 258	14.55	88146	yes					235				
29 PCB 22	256	14.77	79170	1.01	157688	0.04537			-0.00071	220	no	1.599	-
	TriCB 258	14.78	78518	yes					218				
30 PCB 36	256	NotFnd	*	*	*	-0.00061			-0.00061	*	no	1.858	-
	TriCB 258	15.62	*	no					*				
31 PCB 39	256	15.83	3678	0.91	7737	0.002343			-0.00074	10	no	1.519	-
	TriCB 258	15.82	4059	yes					11				
32 PCB 38	256	NotFnd	*	*	*	-0.00072			-0.00072	*	no	1.574	-
	TriCB 258	16.20	*	no					*				
33 PCB 35	256	16.45	3636	1.01	7231	0.002197			-0.00075	9	no	1.514	-
	TriCB 258	16.47	3595	yes					9				
34 PCB 37	256	16.70	76038	1.04	149178	0.050477			-0.00125	181	no	0.906	-
	TriCB 258	16.72	73140	yes					176				
35 PCB 54	290	13.08	279	0.84	610	-0.0006			-0.0006	*	yes	0.911	-
	TCB 292	13.08	331	yes					*				
36 PCB 53/50	290	14.12	22622	0.87	48608	0.030104			-0.001	136	no	0.77	-
	TCB 292	14.11	25986	yes					117				
37 PCB 45/51	290	14.48	13544	0.83	29839	0.019601			-0.00106	76	no	0.725	-
	TCB 292	14.49	16295	yes					70				
38 PCB 46	290	14.64	6947	0.81	15523	0.012246			-0.00128	40	no	0.604	-
	TCB 292	14.64	8576	yes					37				
39 PCB 52	290	15.38	164672	0.8	370979	0.235062			-0.00102	918	no	0.752	-
	TCB 292	15.38	206307	yes					867				
40 PCB 73	290	NotFnd	*	*	*	-0.00077			-0.00077	*	no	1.002	-
	TCB 292	15.43	*	no					*				
41 PCB 43	290	15.53	6897	0.77	15800	0.015008			-0.00153	37	no	0.502	-
	TCB 292	15.50	8903	yes					37				
42 PCB 69/49	290	15.65	74967	0.81	167749	0.092754			-0.00089	401	no	0.862	-
	TCB 292	15.63	92783	yes					385				

43 PCB 48	290	15.83	41612	0.82	92430	0.064465	-0.00113	232	no	0.683	-
	TCB 292	15.84	50818	yes				217			
44 PCB 44/47/65	290	15.96	157903	0.81	354036	0.216482	-0.00099	694	no	0.779	-
	TCB 292	15.97	196133	yes				684			
45 PCB 59/62/75	290	16.16	20546	0.8	46086	0.022346	-0.00078	104	no	0.983	-
	TCB 292	16.16	25540	yes				95			
46 PCB 42	290	16.29	31880	0.79	72176	0.056931	-0.00128	164	no	0.604	-
	TCB 292	16.27	40295	yes				160			
47 PCB 40/41/71	290	16.58	70309	0.79	159337	0.110182	-0.00112	315	no	0.689	-
	TCB 292	16.56	89028	yes				310			
48 PCB 64	290	16.72	47108	0.79	106859	0.056606	-0.00086	246	no	0.9	-
	TCB 292	16.70	59751	yes				237			
49 PCB 72	290	17.20	2571	0.87	5526	0.002088	-0.00081	8	no	1.261	-
	TCB 292	17.20	2955	yes				7			
50 PCB 68	290	17.40	1837	0.74	4315	0.001584	-0.00079	5	no	1.298	-
	TCB 292	17.42	2478	yes				5			
51 PCB 57	290	17.70	953	0.69	2343	0.000756	-0.00069	4	yes	1.477	-
	TCB 292	17.68	1390	yes				5			
52 PCB 58	290	NotFnd	*	*	*	-0.00081	-0.00081	*	no	1.274	-
	TCB 292	17.85	*	no				*			
53 PCB 67	290	17.95	5651	0.78	12873	0.003726	-0.00062	16	yes	1.647	-
	TCB 292	17.95	7222	yes				16			
54 PCB 63	290	18.13	4739	0.76	11002	0.00342	-0.00067	14	yes	1.533	-
	TCB 292	18.15	6263	yes				14			
55 PCB 61/70/74/76	290	18.36	114025	0.77	262583	0.091161	-0.00075	233	yes	1.373	-
	TCB 292	18.36	148558	yes				235			
56 PCB 66	290	18.59	48374	0.77	110844	0.033417	-0.00065	134	yes	1.581	-
	TCB 292	18.60	62470	yes				135			
57 PCB 55	290	NotFnd	*	*	*	-0.00083	-0.00083	*	no	1.229	-
	TCB 292	18.73	*	no				*			
58 PCB 56	290	19.07	5897	0.72	14143	0.005264	-0.0008	17	yes	1.28	-
	TCB 292	19.07	8246	yes				18			
59 PCB 60	290	19.23	5575	0.72	13363	0.00503	-0.00081	16	yes	1.266	-
	TCB 292	19.24	7788	yes				17			
60 PCB 80	290	NotFnd	*	*	*	-0.00064	-0.00064	*	no	1.596	-
	TCB 292	19.50	*	no				*			
61 PCB 79	290	NotFnd	*	*	*	-0.00061	-0.00061	*	no	1.695	-
	TCB 292	20.63	*	no				*			
62 PCB 78	290	NotFnd	*	*	*	-0.00072	-0.00072	*	no	1.435	-
	TCB 292	21.08	*	no				*			
63 PCB 81	290	21.44	306	0.86	661	-0.001	-0.001	*	yes	1.027	-
	TCB 292	21.45	355	yes				*			
64 PCB 77	290	21.89	2266	0.71	5440	0.002046	-0.00095	6	no	1.077	-
	TCB 292	21.89	3174	yes				6			
65 PCB 104	326	NotFnd	*	*	*	-0.00061	-0.00061	*	no	1.094	-
	PeCB 328	15.94	*	no				*			
66 PCB 96	326	16.16	1826	1.73	2883	0.00166	-0.00084	9	no	0.802	-
	PeCB 328	16.15	1057	yes				8			
67 PCB 103	326	17.33	1826	1.51	3032	0.001961	-0.00101	6	yes	0.714	-
	PeCB 328	17.31	1206	yes				6			
68 PCB 94	326	17.47	915	1.75	1436	-0.00138	-0.00138	*	yes	0.521	-
	PeCB 328	17.47	521	yes				*			
69 PCB 95	326	17.77	70348	1.66	112664	0.081135	-0.00112	233	yes	0.641	-
	PeCB 328	17.76	42316	yes				213			
70 PCB 100/93/102/98	326	18.00	6681	1.69	10631	0.008775	-0.00129	15	yes	0.559	-
	PeCB 328	17.91	3950	yes				14			
71 PCB 88/91	326	18.34	5249	1.53	8670	0.007019	-0.00126	16	yes	0.57	-
	PeCB 328	18.33	3421	yes				17			
72 PCB 84	326	18.50	6438	1.6	10449	0.009819	-0.00147	20	yes	0.491	-
	PeCB 328	18.49	4011	yes				19			
73 PCB 89	326	NotFnd	*	*	*	-0.00133	-0.00133	*	no	0.541	-
	PeCB 328	18.84	*	no				*			
74 PCB 121	326	NotFnd	*	*	*	-0.00098	-0.00098	*	no	0.733	-
	PeCB 328	19.08	*	no				*			
75 PCB 92	326	19.36	14139	1.6	22992	0.018208	-0.00124	44	no	0.583	-
	PeCB 328	19.35	8852	yes				42			
76 PCB 113/90/101	326	19.79	108259	1.63	174681	0.11879	-0.00106	328	yes	0.679	-
	PeCB 328	19.76	66422	yes				314			
77 PCB 83/99	326	20.23	44710	1.64	71890	0.064074	-0.00139	127	yes	0.518	-
	PeCB 328	20.22	27180	yes				122			
78 PCB 112	326	NotFnd	*	*	*	-0.00087	-0.00087	*	no	0.83	-
	PeCB 328	20.30	*	no				*			
79 PCB 109/119/86/97/125/	326	20.69	29128	1.59	47444	0.032838	-0.00108	48	no	0.667	-
	PeCB 328	20.62	18316	yes				46			
80 PCB 117/116/85	326	21.19	9551	1.63	15420	0.009928	-0.00101	28	no	0.717	-
	PeCB 328	21.19	5869	yes				26			
81 PCB 110/115	326	21.32	70784	1.66	113419	0.078033	-0.00107	201	no	0.671	-
	PeCB 328	21.32	42636	yes				186			
82 PCB 82	326	21.58	2681	1.55	4411	0.003963	-0.0014	8	no	0.514	-
	PeCB 328	21.59	1730	yes				7			
83 PCB 111	326	NotFnd	*	*	*	-0.00096	-0.00096	*	no	0.749	-
	PeCB 328	21.85	*	no				*			
84 PCB 120	326	22.24	825	1.74	1298	-0.00085	-0.00085	*	yes	0.853	-
	PeCB 328	22.25	473	yes				*			
85 PCB 108/124	326	23.20	4000	1.51	6655	0.002456	-0.00115	5	no	1.251	-
	PeCB 328	23.21	2654	yes				5			
86 PCB 107	326	23.42	9617	1.45	16250	0.005709	-0.0011	12	no	1.314	-
	PeCB 328	23.40	6634	yes				13			
87 PCB 123	326	23.51	1325	1.51	2202	-0.00161	-0.00161	*	no	0.894	-
	PeCB 328	23.51	878	yes				*			
88 PCB 106	326	NotFnd	*	*	*	-0.00105	-0.00105	*	no	1.375	-
	PeCB 328	23.63	*	no				*			
89 PCB 118	326	23.81	115332	1.57	188756	0.078732	-0.00147	150	no	0.981	-
	PeCB 328	23.80	73424	yes				147			

90	PCB 122	326	24.10	1311	1.54	2161	-0.00118	-0.00118	*	no	1.222	-
		PeCB 328	24.08	851	yes				*			
91	PCB 114	326	24.29	1821	1.36	3156	-0.00143	-0.00143	*	no	1.01	-
		PeCB 328	24.28	1335	yes				43			
92	PCB 105	326	24.84	33901	1.51	56405	0.024387	-0.00148	45	no	0.977	-
		PeCB 328	24.85	22505	yes				*			
93	PCB 127	326	NotFnd	*	no	*	-0.00107	-0.00107	*	no	1.348	-
		PeCB 328	26.20	*	no				*			
94	PCB 126	326	27.75	625	1.41	1068	-0.00148	-0.00148	*	yes	0.977	-
		PeCB 328	27.72	443	yes				*			
95	PCB 155	360	NotFnd	*	no	*	-0.00063	-0.00063	*	no	0.997	-
		HxCB 362	19.63	*	no				*			
96	PCB 152	360	NotFnd	*	no	*	-0.00093	-0.00093	*	no	0.675	-
		HxCB 362	19.78	*	no				*			
97	PCB 150	360	19.89	410	1.41	700	-0.00098	-0.00098	*	yes	0.639	-
		HxCB 362	19.88	290	yes				*			
98	PCB 136	360	20.19	16778	1.25	30210	0.02342	-0.00093	91	no	0.672	-
		HxCB 362	20.18	13432	yes				93			
99	PCB 145	360	NotFnd	*	no	*	-0.00108	-0.00108	*	no	0.579	-
		HxCB 362	20.41	*	no				*			
100	PCB 148	360	21.53	641	1.47	1078	-0.00128	-0.00128	*	yes	0.487	-
		HxCB 362	21.55	437	no				*			
101	PCB 151/135	360	22.03	47128	1.32	82873	0.095801	-0.00139	207	yes	0.451	-
		HxCB 362	22.04	35744	yes				199			
102	PCB 154	360	22.24	2272	1.15	4253	0.004074	-0.00115	13	yes	0.544	-
		HxCB 362	22.21	1981	yes				13			
103	PCB 144	360	22.51	6290	1.15	11763	0.012694	-0.00129	35	yes	0.483	-
		HxCB 362	22.51	5473	yes				36			
104	PCB 147/149	360	22.80	156686	1.32	275767	0.222067	-0.00119	639	yes	0.647	-
		HxCB 362	22.80	119081	yes				606			
105	PCB 134/143	360	22.99	5894	1.28	10507	0.009726	-0.00137	22	yes	0.563	-
		HxCB 362	23.06	4613	yes				21			
106	PCB 139/140	360	23.31	1543	1.23	2792	0.002277	-0.00121	5	yes	0.639	-
		HxCB 362	23.31	1250	yes				6			
107	PCB 131	360	23.49	1084	1.24	1954	0.001985	-0.00151	4	yes	0.513	-
		HxCB 362	23.49	871	yes				4			
108	PCB 142	360	NotFnd	*	no	*	-0.00132	-0.00132	*	no	0.583	-
		HxCB 362	23.65	*	no				*			
109	PCB 132	360	23.88	21336	1.28	38040	0.037913	-0.00148	81	yes	0.523	-
		HxCB 362	23.88	16704	yes				81			
110	PCB 133	360	24.31	2710	1.4	4653	0.003892	-0.00124	10	yes	0.623	-
		HxCB 362	24.31	1942	yes				8			
111	PCB 165	360	24.65	298	1.18	550	-0.00108	-0.00108	*	yes	0.714	-
		HxCB 362	24.68	252	yes				*			
112	PCB 146	360	24.88	31997	1.31	56511	0.044372	-0.00116	122	yes	0.663	-
		HxCB 362	24.88	24513	yes				115			
113	PCB 161	360	NotFnd	*	no	*	-0.00087	-0.00087	*	no	0.888	-
		HxCB 362	25.03	*	no				*			
114	PCB 153/168	360	25.43	282524	1.29	502211	0.330304	-0.00098	1066	no	0.792	-
		HxCB 362	25.47	219686	yes				1027			
115	PCB 141	360	25.63	7103	1.38	12239	0.010264	-0.00124	27	yes	0.621	-
		HxCB 362	25.62	5136	yes				23			
116	PCB 130	360	26.00	6685	1.32	11754	0.010969	-0.00138	23	yes	0.558	-
		HxCB 362	26.00	5069	yes				22			
117	PCB 137	360	26.30	7940	1.32	13977	0.012921	-0.00137	24	yes	0.563	-
		HxCB 362	26.21	6036	yes				21			
118	PCB 164	360	NotFnd	*	no	*	-0.00094	-0.00094	*	no	0.826	-
		HxCB 362	26.30	*	no				*			
119	PCB 138/163/129	360	26.61	214081	1.31	377850	0.305677	-0.0012	784	yes	0.644	-
		HxCB 362	26.62	163768	yes				733			
120	PCB 160	360	NotFnd	*	no	*	-0.00107	-0.00107	*	no	0.723	-
		HxCB 362	26.80	*	no				*			
121	PCB 158	360	26.98	20502	1.33	35957	0.020554	-0.00085	70	yes	0.911	-
		HxCB 362	26.98	15455	yes				66			
122	PCB 128/166	360	27.82	19145	1.32	33648	0.025024	-0.0011	55	no	0.7	-
		HxCB 362	27.80	14503	yes				54			
123	PCB 159	360	NotFnd	*	no	*	-0.00056	-0.00056	*	no	1.379	-
		HxCB 362	28.78	*	no				*			
124	PCB 162	360	29.09	756	1.76	1186	-0.00062	-0.00062	*	yes	1.254	-
		HxCB 362	29.07	430	no				*			
125	PCB 167	360	29.53	11792	1.28	20972	0.008667	-0.00082	36	yes	0.946	-
		HxCB 362	29.55	9180	yes				35			
126	PCB 156/157	360	30.68	23282	1.26	41741	0.017662	-0.00076	65	no	1.017	-
		HxCB 362	30.71	18459	yes				63			
127	PCB 169	360	NotFnd	*	no	*	-0.00081	-0.00081	*	no	0.954	-
		HxCB 362	34.13	*	no				*			
128	PCB 188	394	24.24	241	1.13	455	-0.00081	-0.00081	*	yes	1.012	-
		HpCB 396	24.23	214	yes				*			
129	PCB 179	394	24.54	20283	1.06	39432	0.026587	-0.0008	102	no	1.016	-
		HpCB 396	24.52	19149	yes				102			
130	PCB 184	394	NotFnd	*	no	*	-0.00087	-0.00087	*	no	0.937	-
		HpCB 396	25.00	*	no				*			
131	PCB 176	394	25.33	5860	1.03	11543	0.007967	-0.00082	29	no	0.993	-
		HpCB 396	25.32	5683	yes				29			
132	PCB 186	394	NotFnd	*	no	*	-0.00095	-0.00095	*	no	0.865	-
		HpCB 396	25.75	*	no				*			
133	PCB 178	394	27.02	7424	1.08	14329	0.014305	-0.00119	36	no	0.686	-
		HpCB 396	27.01	6905	yes				35			
134	PCB 175	394	27.62	1510	1.17	2804	0.00276	-0.00117	7	no	0.696	-
		HpCB 396	27.62	1294	yes				7			
135	PCB 187	394	27.89	55815	1.11	106141	0.108038	-0.00121	268	no	0.673	-
		HpCB 396	27.88	50327	yes				255			
136	PCB 182	394	NotFnd	*	no	*	-0.00121	-0.00121	*	no	0.674	-
		HpCB 396	28.10	*	no				*			

137 PCB 183	394	28.50	38516	1.07	74482	0.044237	-0.00099	131	yes	1.153	-
	HpCB 396	28.51	35966	yes				131			
138 PCB 185	394	NotFnd	*	*		-0.00142	-0.00142	*	no	0.805	-
	HpCB 396	28.58	*	no				*			
139 PCB 174	394	NotFnd	*	*		-0.00121	-0.00121	*	no	0.947	-
	HpCB 396	28.74	*	no				*			
140 PCB 177	394	29.16	24716	1.03	48605	0.036159	-0.00124	86	no	0.921	-
	HpCB 396	29.16	23889	yes				85			
141 PCB 181	394	NotFnd	*	*		-0.00129	-0.00129	*	no	0.885	-
	HpCB 396	29.57	*	no				*			
142 PCB 171/173	394	29.78	13100	1.07	25337	0.019331	-0.00127	42	no	0.898	-
	HpCB 396	29.80	12237	yes				44			
143 PCB 172	394	31.45	1333	1.08	2565	0.001957	-0.00127	5	no	0.898	-
	HpCB 396	31.44	1231	yes				4			
144 PCB 192	394	NotFnd	*	*		-0.0011	-0.0011	*	no	1.043	-
	HpCB 396	31.76	*	no				*			
145 PCB 193/180	394	32.13	86156	1.1	164629	0.10582	-0.00081	278	no	1.408	-
	HpCB 396	32.08	78473	yes				264			
146 PCB 191	394	32.51	1951	0.94	4033	0.002228	-0.00092	7	no	1.24	-
	HpCB 396	32.50	2082	yes				7			
147 PCB 170	394	33.45	14977	1.11	28493	0.023299	-0.0009	48	yes	1.271	-
	HpCB 396	33.47	13516	yes				44			
148 PCB 190	394	34.03	9387	1.02	18622	0.009988	-0.00089	31	yes	1.277	-
	HpCB 396	34.04	9235	yes				31			
149 PCB 189	394	36.87	3403	1.1	6493	0.002631	-0.00075	9	no	0.944	-
	HpCB 396	36.88	3090	yes				8			
150 PCB 202	428	29.28	3580	0.81	8004	0.007853	-0.00083	26	no	0.988	-
	OcCB 430	29.28	4424	yes				27			
151 PCB 201	428	30.21	2455	0.93	5108	0.003666	-0.00076	16	no	1.068	-
	OcCB 430	30.18	2652	yes				16			
152 PCB 204	428	30.95	3	0.27	13	-0.00078	-0.00078	*	yes	1.052	-
	OcCB 430	30.88	10	no				*			
153 PCB 197	428	31.13	794	0.81	1774	0.001429	-0.00086	5	yes	0.951	-
	OcCB 430	31.12	980	yes				5			
154 PCB 200	428	NotFnd	*	*		-0.00077	-0.00077	*	no	1.056	-
	OcCB 430	31.24	*	no				*			
155 PCB 198/199	428	34.21	420	0.86	906	-0.00116	-0.00116	*	yes	0.702	-
	OcCB 430	34.19	486	yes				*			
156 PCB 196	428	34.92	342	0.86	739	-0.00111	-0.00111	*	yes	0.734	-
	OcCB 430	34.93	397	yes				*			
157 PCB 203	428	35.14	3522	0.93	7312	0.007887	-0.00115	20	no	0.711	-
	OcCB 430	35.12	3790	yes				22			
158 PCB 195	428	36.57	645	0.76	1494	-0.00093	-0.00093	*	Op-O	1.046	-
	OcCB 430	36.59	850	no				*			
159 PCB 194	428	39.21	5449	0.92	11379	0.007796	-0.00086	21	no	1.119	-
	OcCB 430	39.22	5930	yes				20			
160 PCB 205	428	39.76	860	0.9	1810	0.001052	-0.00089	3	yes	1.091	-
	OcCB 430	39.77	950	yes				3			
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	41.73	307	0.91	647	-0.00084	-0.00084	*	yes	1.027	-
	NoCB 464	41.71	339	no				*			
164 PCB 209	498	43.59	252	1.55	415	-0.00081	-0.00081	*	yes	1.04	-
	DCB 500	43.56	163	no				*			
165 PCB 1L	200	8.99	339845	3.35	441203	0.143851	0	6443	no	0.824	73
	202	8.97	101358	yes				890			
166 PCB 3L	200	10.18	331450	3.43	428172	0.134923	0	6128	no	0.852	68
	202	10.18	96723	yes				845			
167 PCB 4L	234	10.30	134933	1.65	216501	0.107163	0	3345	no	0.543	54
	236	10.28	81568	yes				4204			
168 PCB 15L	234	12.93	407421	1.66	652544	0.163139	0	3605	no	1.074	83
	236	12.91	245123	yes				2748			
169 PCB 19L	268	11.68	110421	1.07	214087	0.099443	0.001	431	no	0.578	50
	270	11.68	103666	yes				265			
170 PCB 37L	268	16.70	334205	1.08	644132	0.215584	0.001	850	no	1.987	109
	270	16.69	309927	yes				842			
171 PCB 54L	302	13.06	111921	0.83	247231	0.126707	0	1028	no	1.297	64
	304	13.07	135310	yes				2783			
172 PCB 81L	302	21.42	226885	0.81	508026	0.194361	0	1471	no	1.738	98
	304	21.42	281141	yes				2142			
173 PCB 77L	302	21.87	219930	0.82	487062	0.193097	0	1378	no	1.677	98
	304	21.85	267132	yes				1985			
174 PCB 104L	338	15.92	141807	1.59	230727	0.158803	0	5095	no	1.156	80
	340	15.93	88920	yes				5873			
175 PCB 123L	338	23.49	313665	1.65	503194	0.206754	0	4051	no	1.936	105
	340	23.50	189529	yes				2735			
176 PCB 118L	338	23.77	299252	1.64	482082	0.201204	0	3789	no	1.906	102
	340	23.76	182830	yes				2590			
177 PCB 114L	338	24.26	283836	1.67	453914	0.203656	0	3576	no	1.773	103
	340	24.26	170078	yes				2376			
178 PCB 105L	338	24.83	288879	1.62	467448	0.204023	0	3619	no	1.822	103
	340	24.81	178569	yes				2509			
179 PCB 126L	338	27.69	283207	1.62	457607	0.209732	0	3151	no	1.735	106
	340	27.68	174400	yes				2188			
180 PCB 155L	372	19.61	135176	1.27	241831	0.141171	0	8269	no	1.404	72
	374	19.61	106655	yes				4125			
181 PCB 167L	372	29.52	285166	1.3	504889	0.196813	0	3201	no	2.11	100
	374	29.49	219723	yes				2687			
182 PCB 156L/157L	372	30.68	517619	1.3	917198	0.392704	0	4830	no	1.921	99
	374	30.69	399578	yes				4093			
183 PCB 169L	372	34.10	177378	1.33	310334	0.135312	0	1789	no	1.886	69
	374	34.07	132955	yes				1486			

184 PCB 188L	406	24.20	117538	1.06	228128	0.141135	0	5039	no	1.329	72
	408	24.21	110590	yes			0	3428			
	408	32.11	113947	1.09	218134	0.132564	0	2428	no	1.349	67
185 PCB 180L	406	32.09	104187	yes			0	1893			
	408	33.44	98110	1.07	189898	0.131875	0	1979	no	1.18	67
186 PCB 170L	406	33.42	91788	yes			0	1653			
	408	36.84	267623	1.08	516165	0.19609	0	3973	no	2.157	99
187 PCB 189L	406	36.83	248542	yes			0	4734			
	408	29.25	96791	0.91	203686	0.117603	0	5257	no	1.419	60
188 PCB 202L	440	29.27	106895	yes			0	2466			
	442	39.73	149342	0.92	311351	0.166633	0	2841	no	1.531	84
189 PCB 205L	440	39.73	162009	yes			0	1495			
	442	36.29	86948	0.8	195108	0.140334	0	1181	no	1.139	71
190 PCB 208L	474	36.28	108160	yes			0	4215			
	476	41.71	69004	0.8	155339	0.16761	0	871	no	0.76	85
191 PCB 206L	474	41.73	86335	yes			0	3224			
	476	43.56	80451	1.23	145994	0.165187	0	5334	no	0.724	84
192 PCB 209L	510	43.53	65543	yes			0.001	3797			
	512	14.41	435972	1.06	848988	0.276798	0.001	1297	no	2.039	126
193 PCB 28L	268	14.43	413016	yes			0	1319			
PCB Cleanup Standard	270	21.83	240499	1.69	383081	0.226877	0	5844	no	1.343	104
194 PCB 111L	338	21.84	142582	yes			0	4606			
PCB Cleanup Standard	340	27.00	88750	1.05	172943	0.194068	0	3530	no	0.733	89
195 PCB 178L	406	26.97	84193	yes			0.001	2443			
PCB Cleanup Standard	408	NotFnd	*	no	*		0.001	*	no	1.934	
196 PCB 31L	268	14.26	*	no	*		0	*	no	0.946	
PCB Audit Standard	270	NotFnd	*	*	*		0	*	no	1.225	
197 PCB 95L	338	17.73	*	no	*		0	*	no		
PCB Audit Standard	340	NotFnd	*	*	*		0	*	no		
198 PCB 153L	372	25.40	*	no	*		-	24769	no	-	-
PCB Audit Standard	374	11.18	2553315	1.67	4081764	9.58264	-	18906			
199 PCB 9L	234	11.19	1528449	yes			-	8224	no	-	-
PCB Recovery Standard	236	15.36	734627	0.8	1648917	7.378756	-	14447			
200 PCB 52L	302	15.36	914290	yes			-	22128	no	-	-
PCB Recovery Standard	304	19.77	851684	1.62	1378318	7.654827	-	18290			
201 PCB 101L	338	19.76	526634	yes			-	15049	no	-	-
PCB Recovery Standard	340	26.57	753976	1.3	1333002	8.21167	-	24772			
202 PCB 138L	372	26.56	579026	yes			-	12035	no	-	-
PCB Recovery Standard	374	39.18	647463	0.94	1337721	9.891587	-	6192			
203 PCB 194L	440	39.17	690258	yes			0	-0.00066			
PCB Recovery Standard	442						5	-0.00144			
Chlorobiphenyls							15	-0.00125			
Dichlorobiphenyls							22	-0.00153			
Trichlorobiphenyls							17	-0.00161			
Tetrachlorobiphenyls							20	-0.00151			
Pentachlorobiphenyls							14	-0.00142			
Hexachlorobiphenyls							6	-0.00116			
Heptachlorobiphenyls							0	-0.00084			
Octachlorobiphenyls							0	-0.00081			
Nonachlorobiphenyls							0	-0.00081			
Decachlorobiphenyl											
PCB (total)											

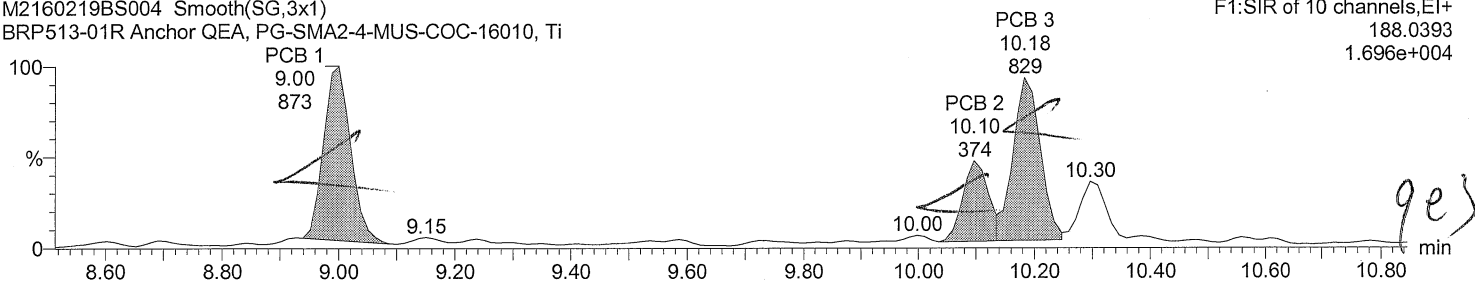
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Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

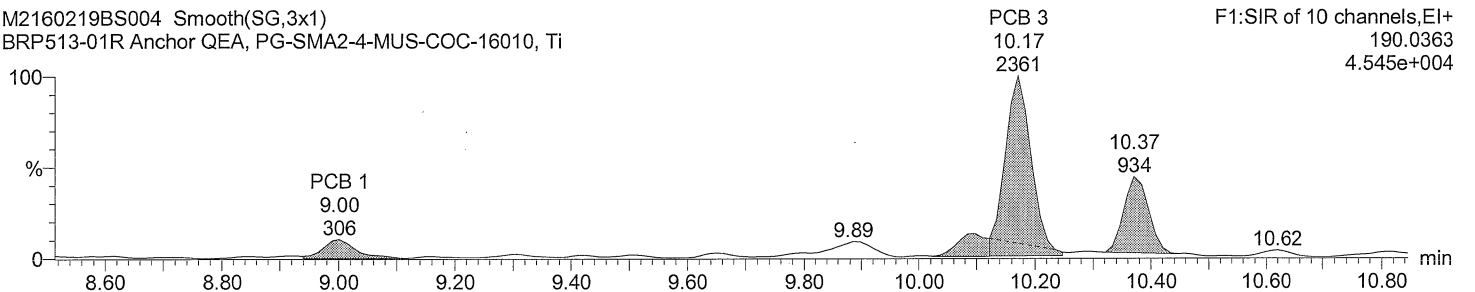
Total MoCB F1

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



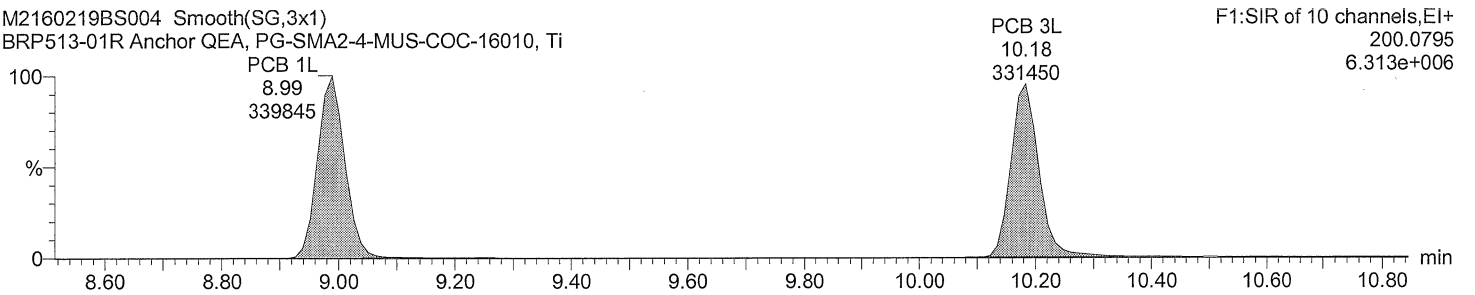
Total MoCB F1

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



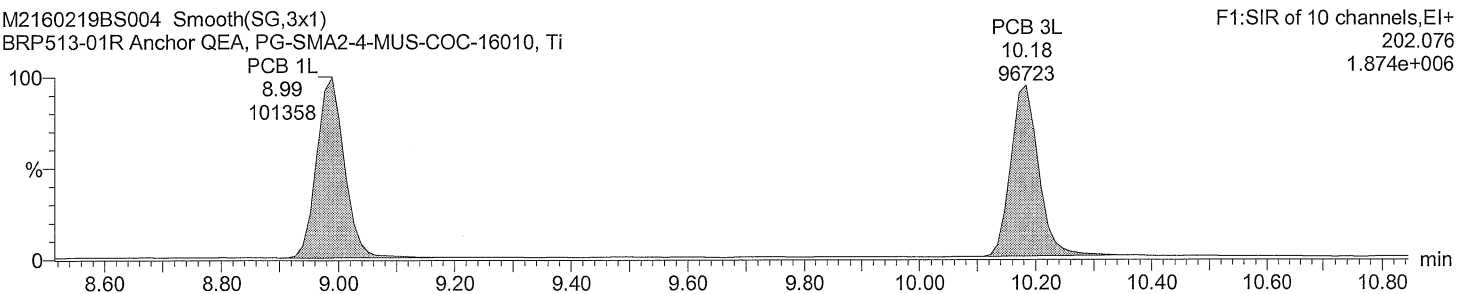
Total MoCB labeled F1

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Total MoCB labeled F1

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



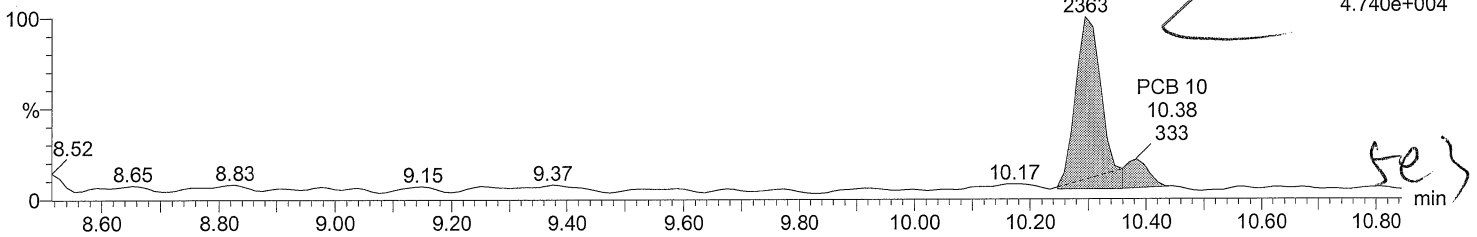
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Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

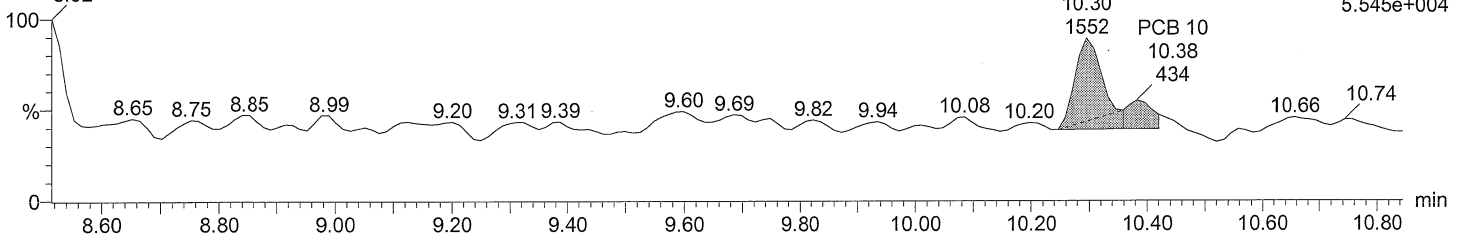
Total DiCB F1

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



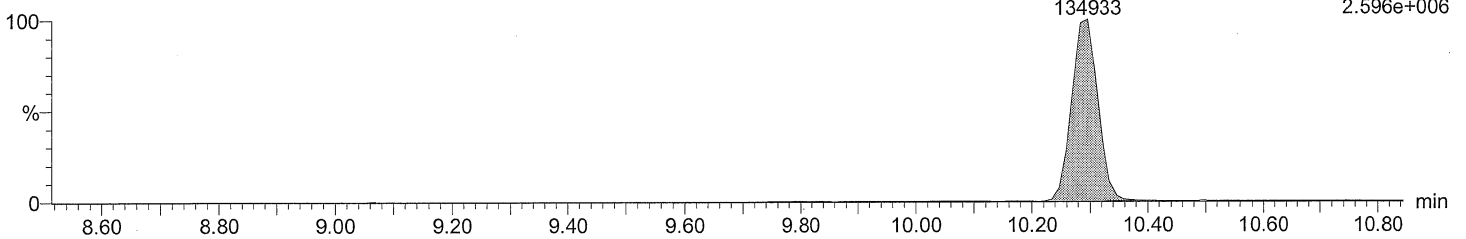
Total DiCB F1

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



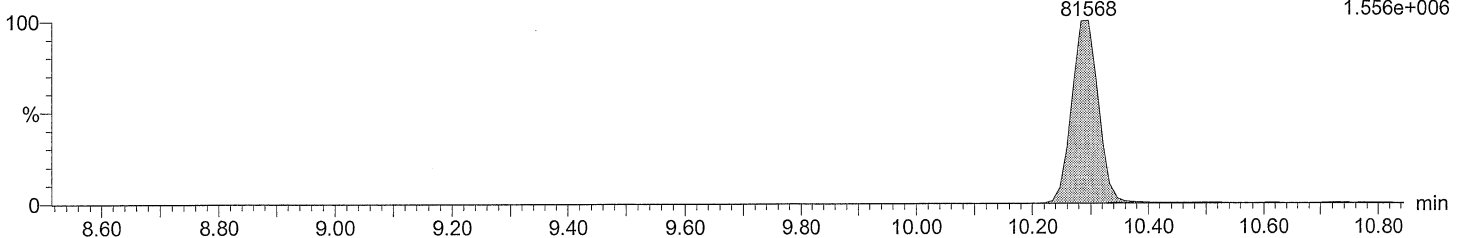
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M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Total DiCB labeled F1

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



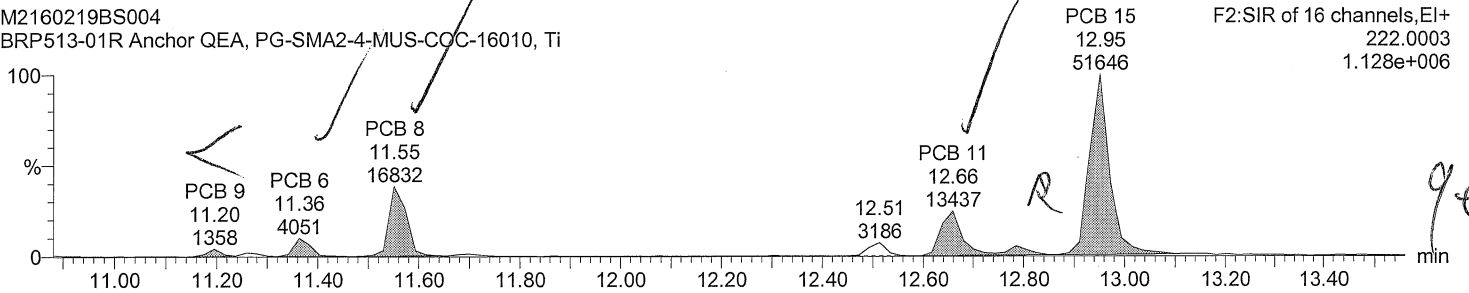
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Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

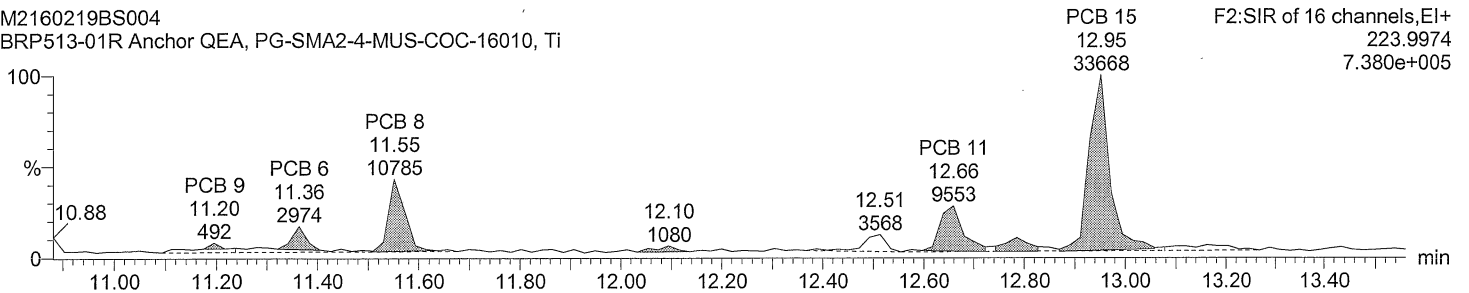
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M2160219BS004
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



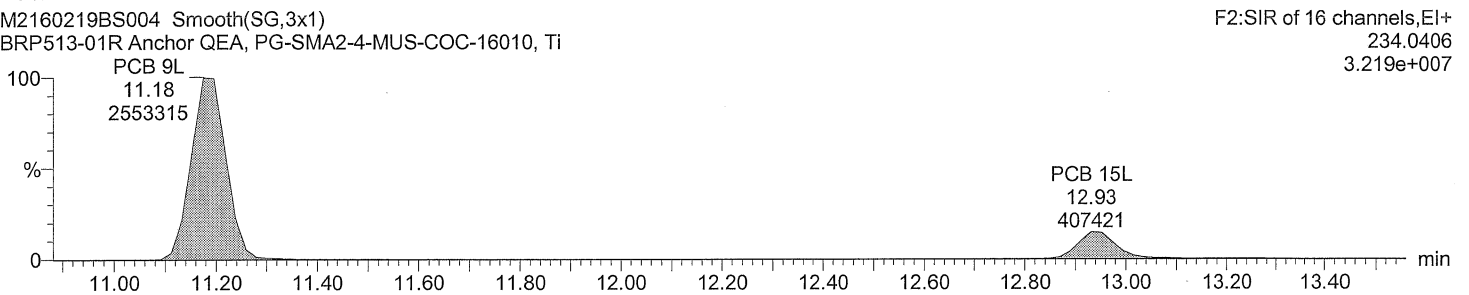
Total DiCB F2

M2160219BS004
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



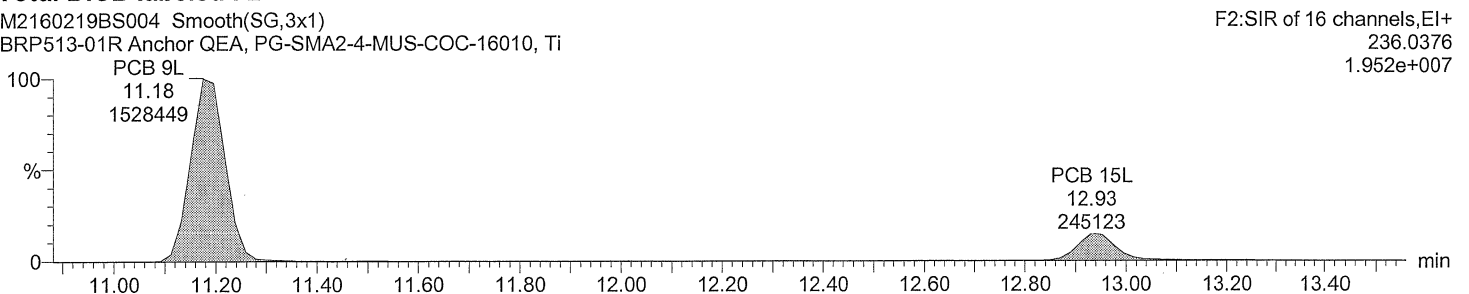
Total DiCB labeled F2

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Total DiCB labeled F2

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

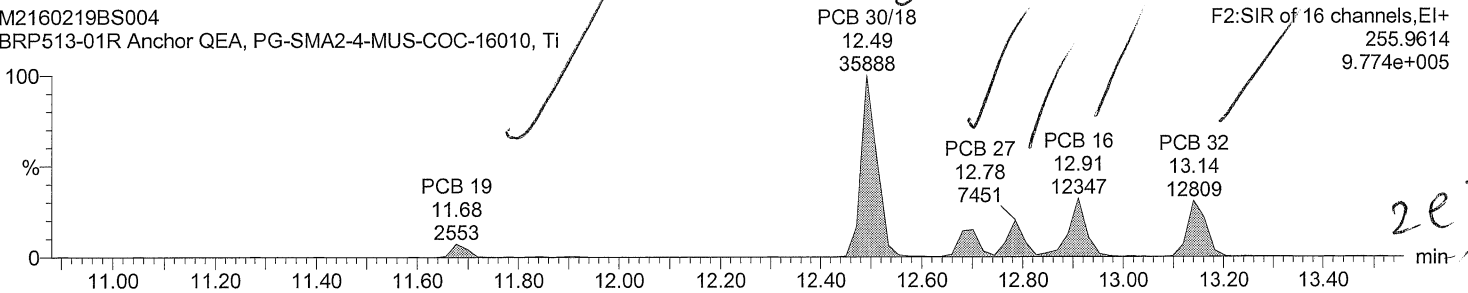


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Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

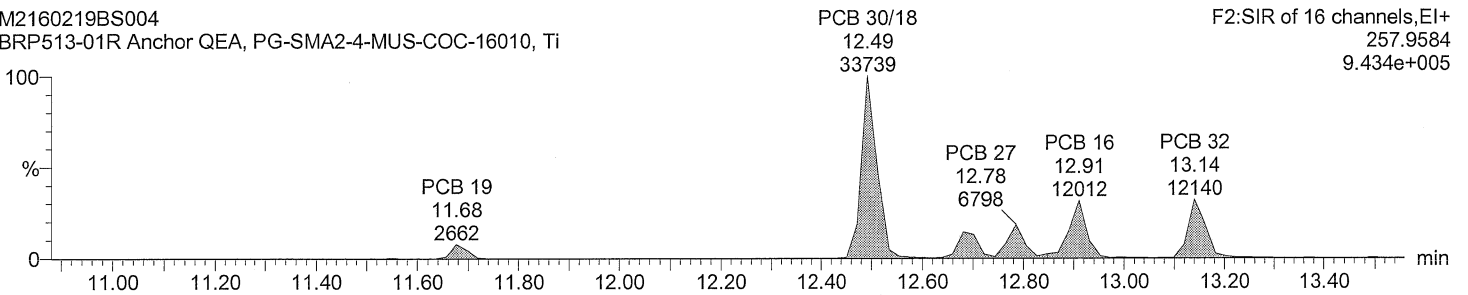
Total TriCB F2

M2160219BS004
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



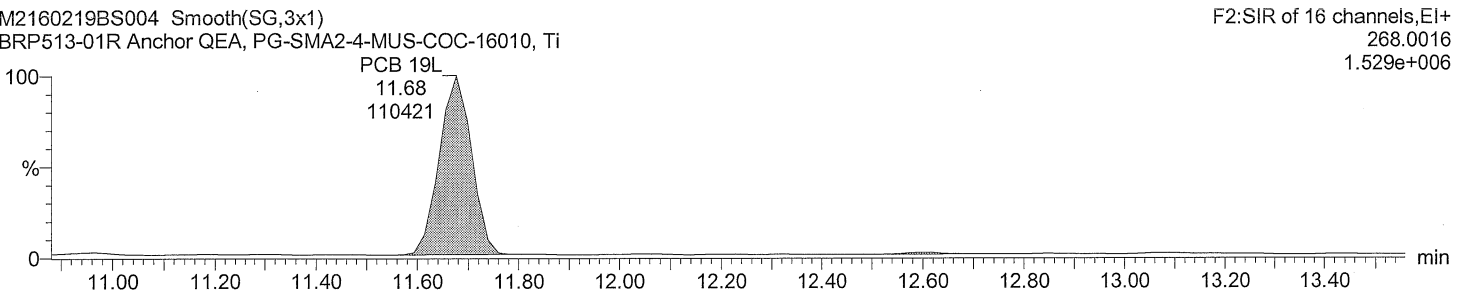
Total TriCB F2

M2160219BS004
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



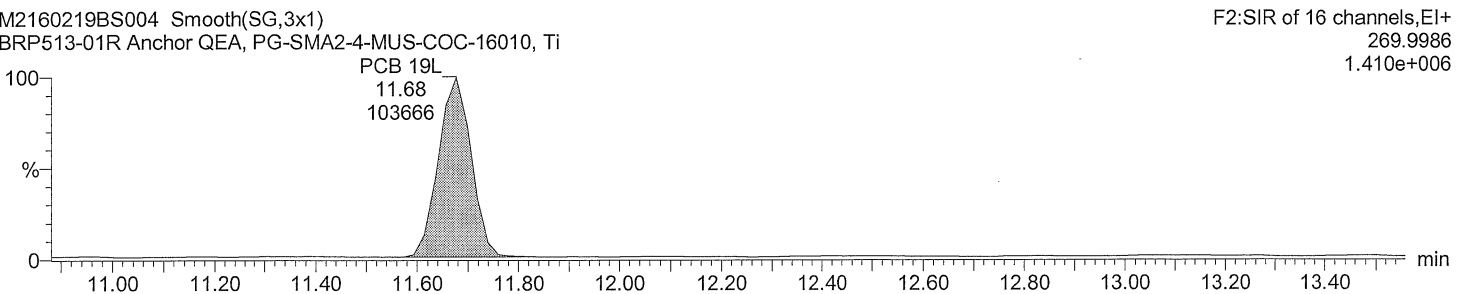
Total TriCB labeled F2

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Total TriCB labeled F2

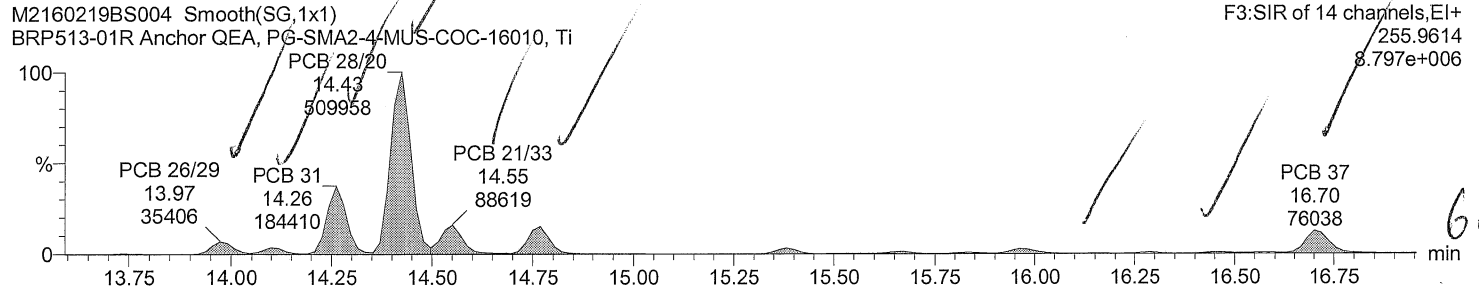
M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



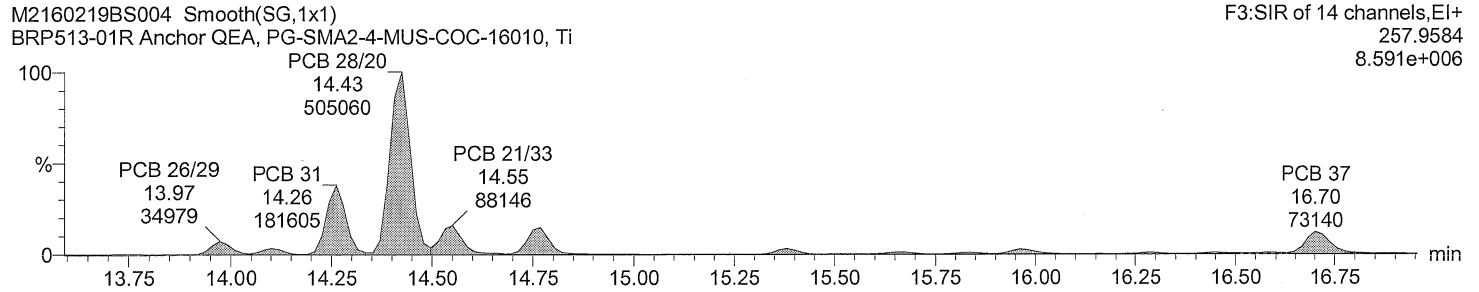
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Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

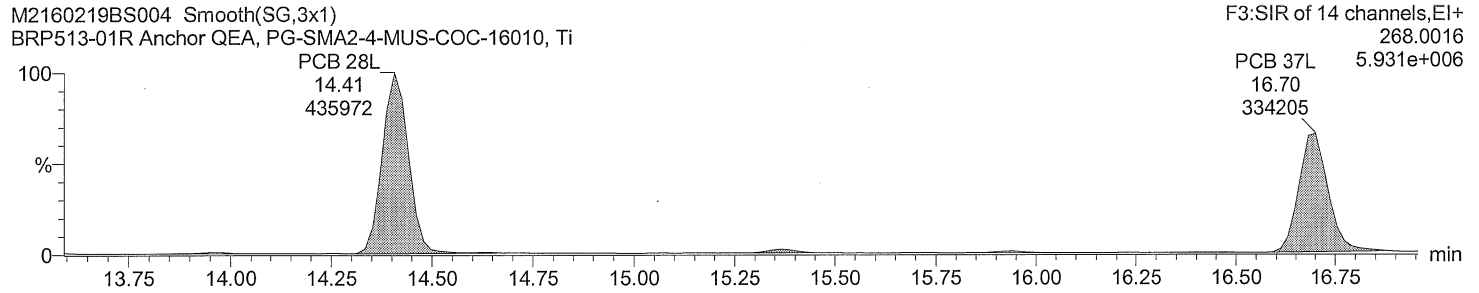
Total TriCB F3



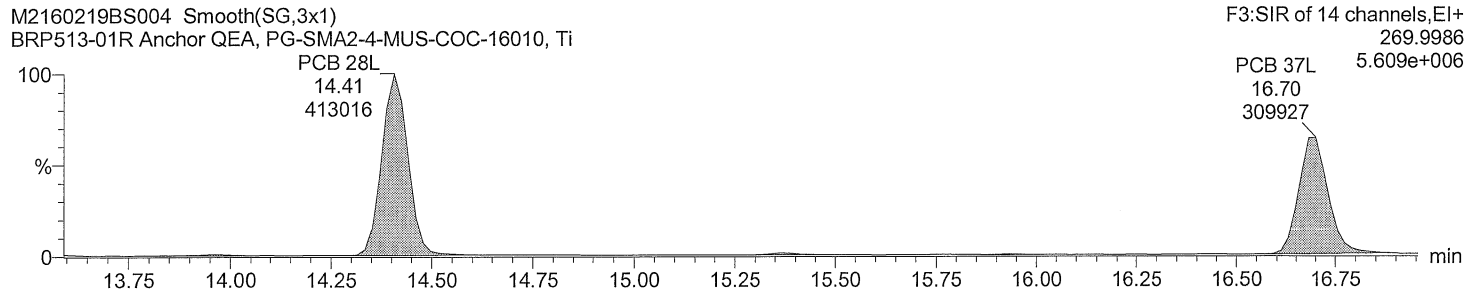
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



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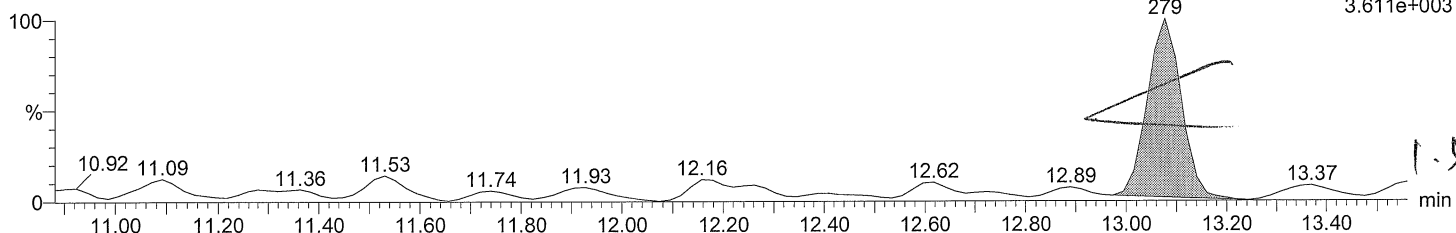
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Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

Total TeCB F2

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

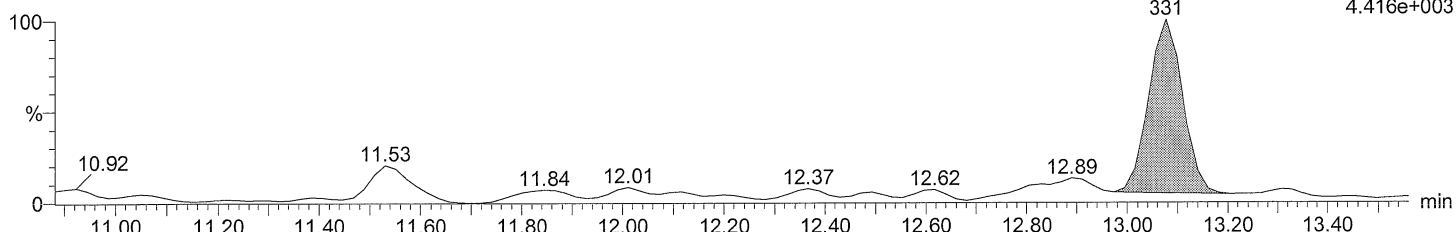
PCB 54 F2:SIR of 16 channels,EI+
13.08 289.9224
279 3.611e+003



Total TeCB F2

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

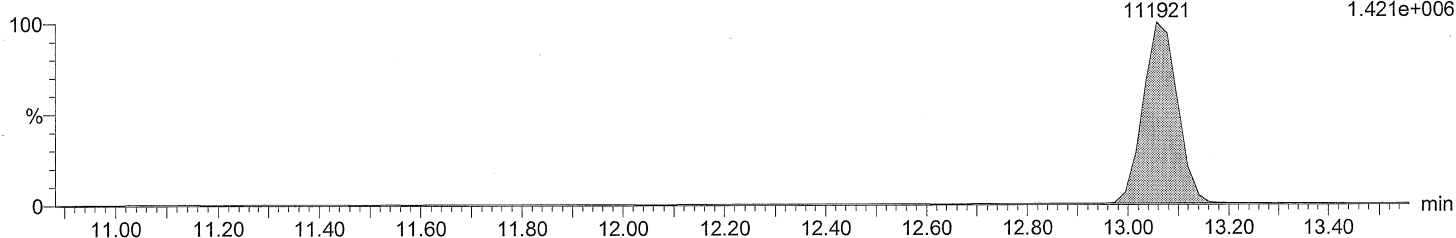
PCB 54 F2:SIR of 16 channels,EI+
13.08 291.9194
331 4.416e+003



Total TeCB labeled F2

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

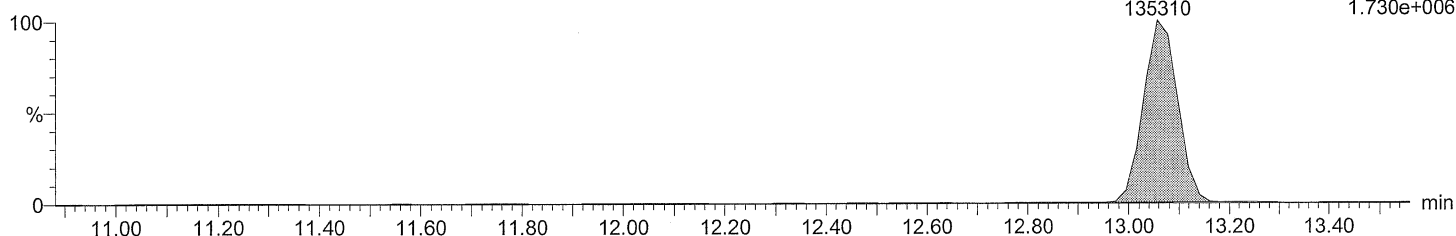
PCB 54L F2:SIR of 16 channels,EI+
13.06 301.9626
111921 1.421e+006



Total TeCB labeled F2

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

PCB 54L F2:SIR of 16 channels,EI+
13.06 303.9597
135310 1.730e+006



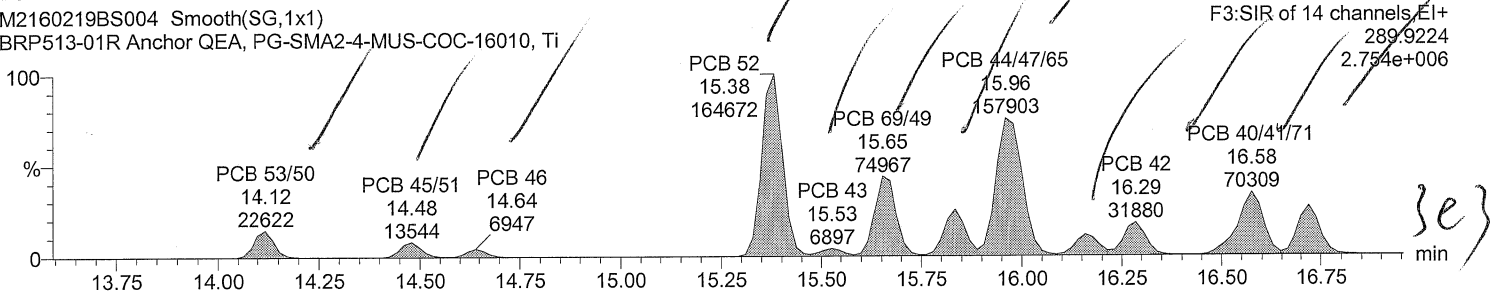
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Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

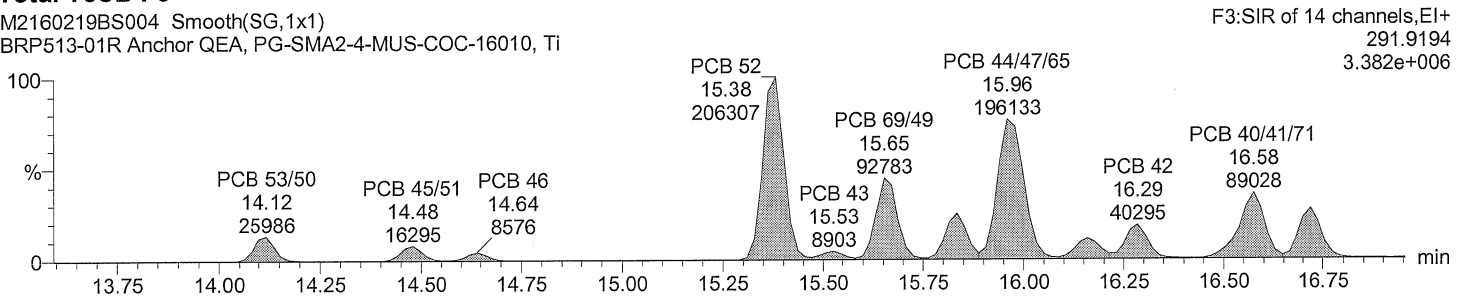
Total TeCB F3

M2160219BS004 Smooth(SG,1x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



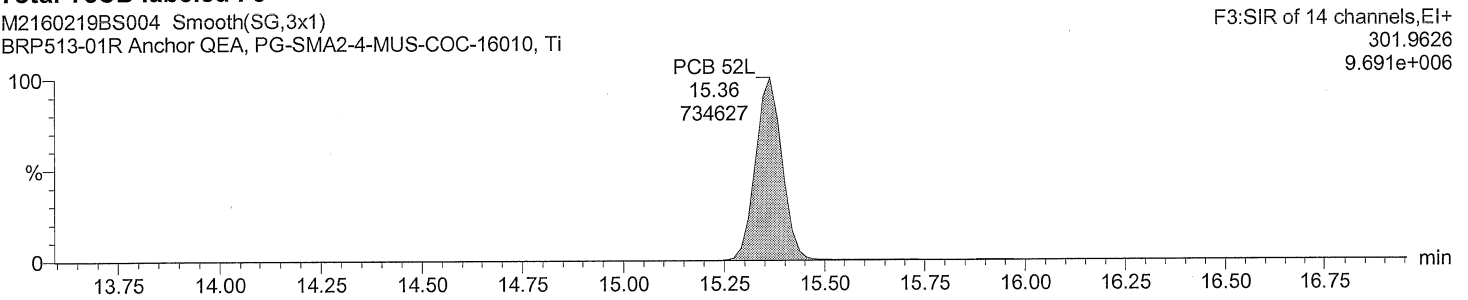
Total TeCB F3

M2160219BS004 Smooth(SG,1x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



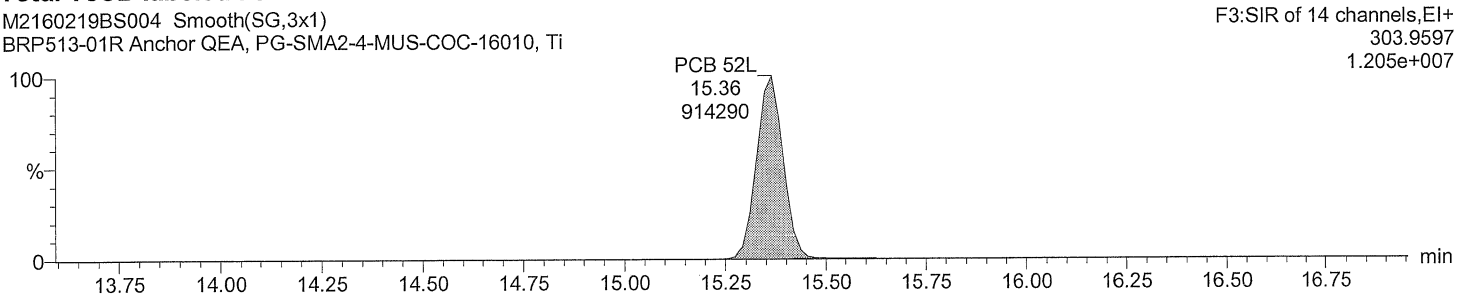
Total TeCB labeled F3

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Total TeCB labeled F3

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

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

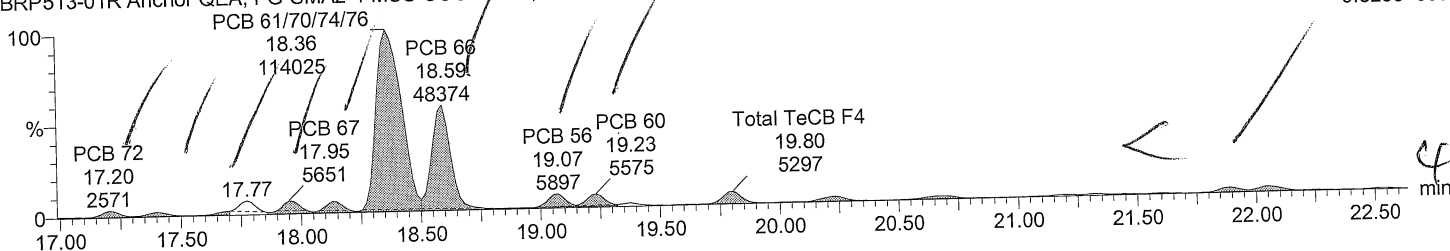
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Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

Total TeCB F4

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

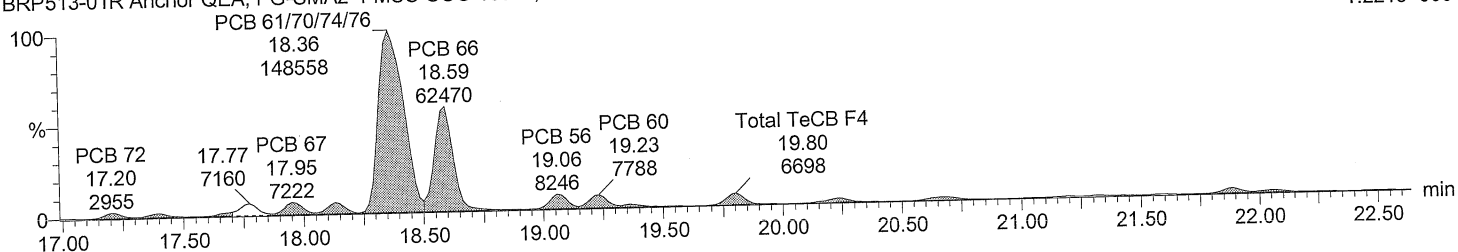
F4:SIR of 14 channels, EI+
289.9224
9.325e+005



Total TeCB F4

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

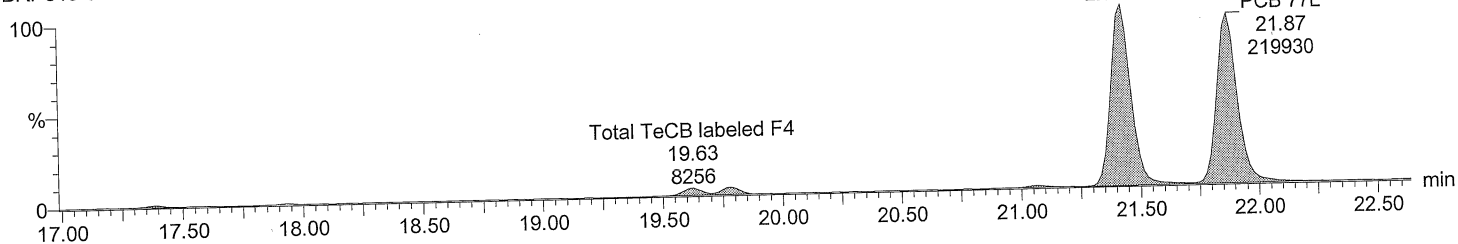
F4:SIR of 14 channels, EI+
291.9194
1.221e+006



Total TeCB labeled F4

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

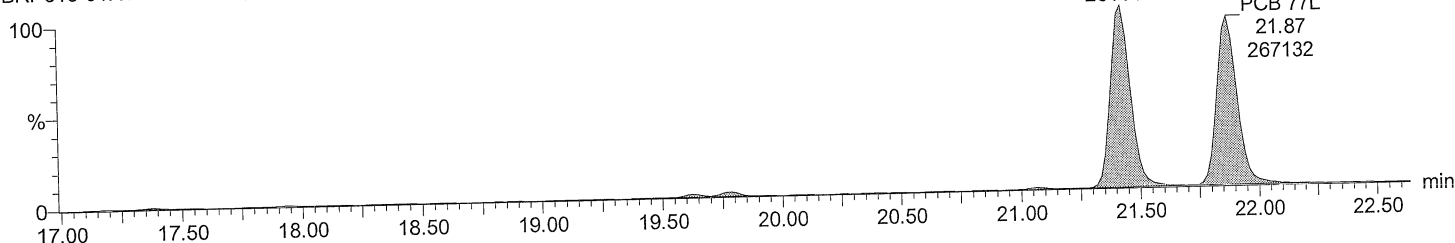
PCB 81L 21.42 226885
F4:SIR of 14 channels, EI+
301.9626
2.360e+006



Total TeCB labeled F4

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

PCB 81L 21.42 281141
F4:SIR of 14 channels, EI+
303.9597
2.913e+006



Quantify Sample Report MassLynx 4.0 SP1
Acquired Date

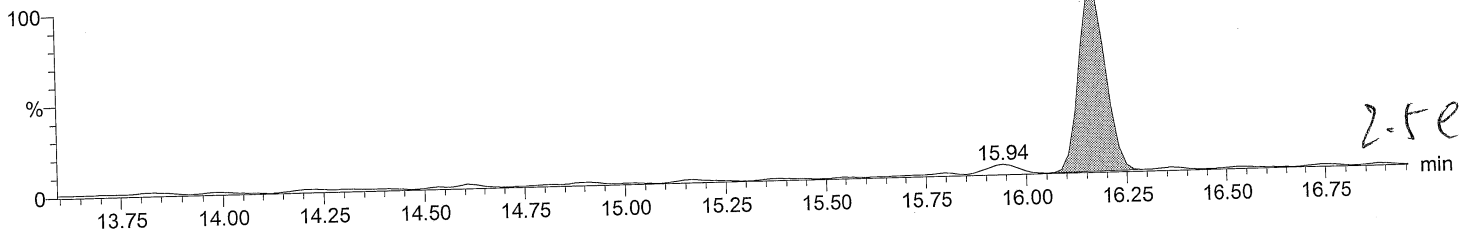
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Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

Total PeCB F3

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

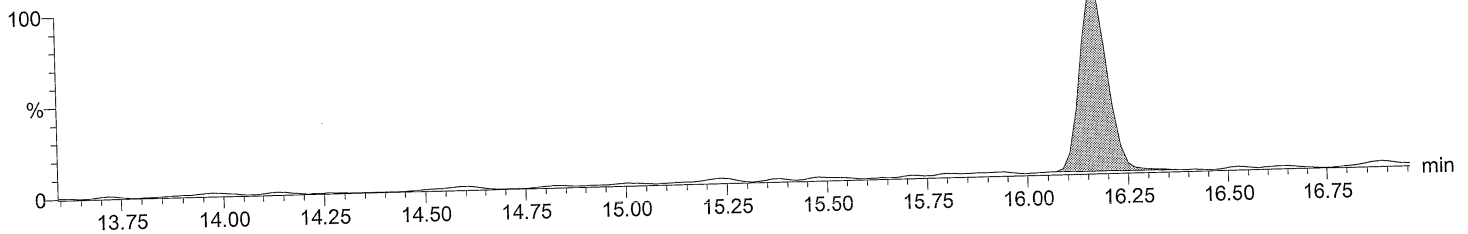
PCB 96
16.16
1826
F3:SIR of 14 channels, EI+
325.8805
2.335e+004



Total PeCB F3

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

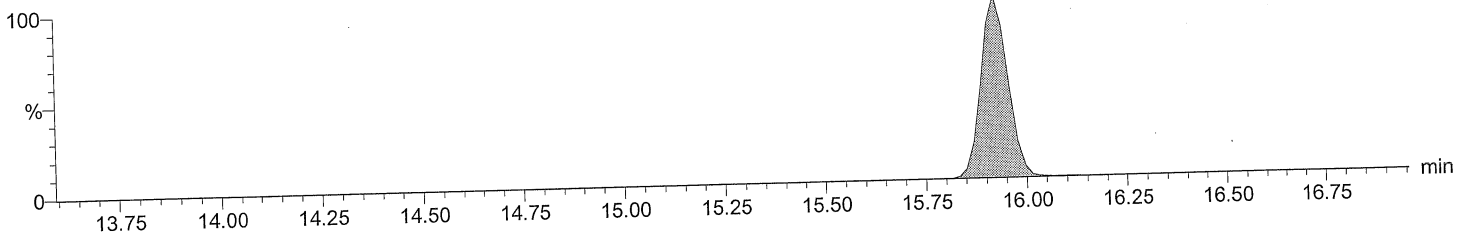
PCB 96
16.16
1057
F3:SIR of 14 channels, EI+
327.8775
1.332e+004



Total PeCB labeled F3

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

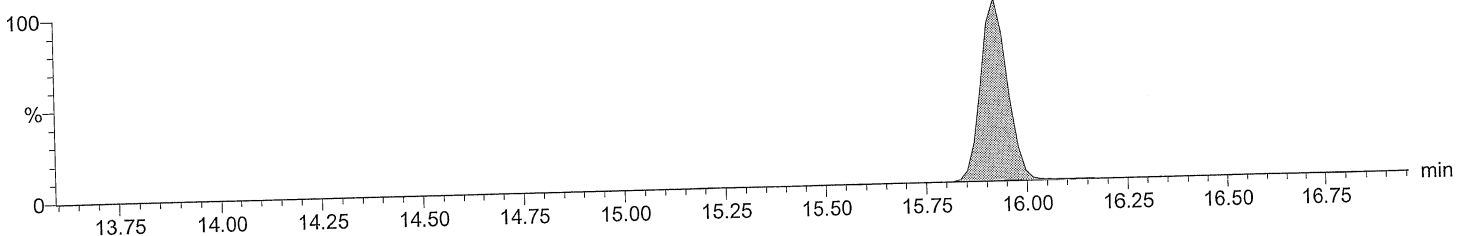
PCB 104L
15.92
141807
F3:SIR of 14 channels, EI+
337.9207
1.865e+006



Total PeCB labeled F3

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

PCB 104L
15.92
88920
F3:SIR of 14 channels, EI+
339.9178
1.180e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160219_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: BRP513-01R

Vial: 4

Date: 19-FEB-2016

Time: 14:37:56

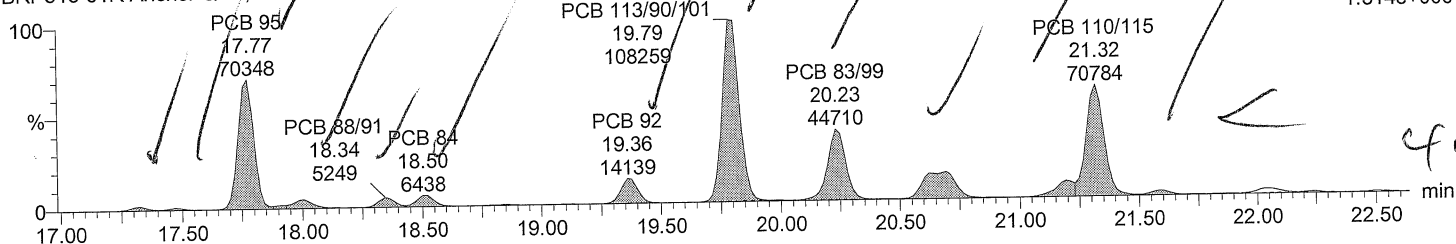
Instrument: Autospec-UltimaE

Total PeCB F4

M2160219BS004 Smooth(SG,2x1)

BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

F4:SIR of 14 channels, EI+
325.8805
1.314e+006

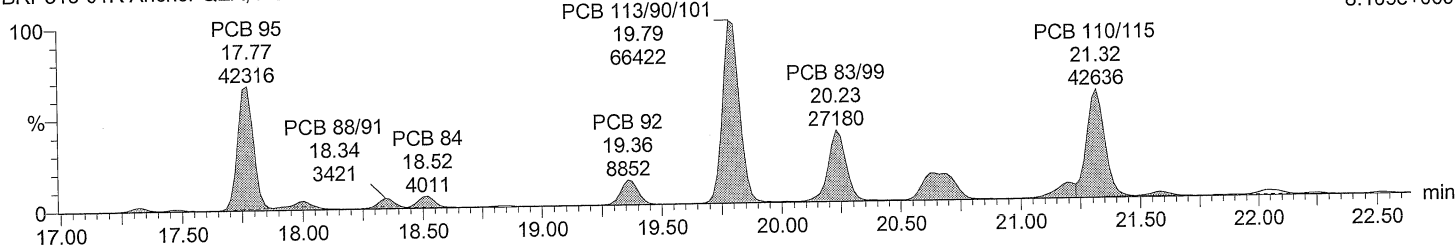


Total PeCB F4

M2160219BS004 Smooth(SG,2x1)

BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

F4:SIR of 14 channels, EI+
327.8775
8.109e+005

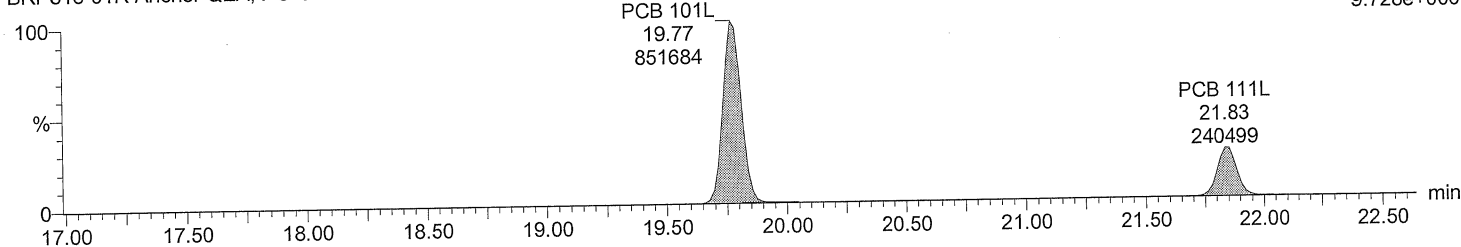


Total PeCB labeled F4

M2160219BS004 Smooth(SG,3x1)

BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

F4:SIR of 14 channels, EI+
337.9207
9.728e+006

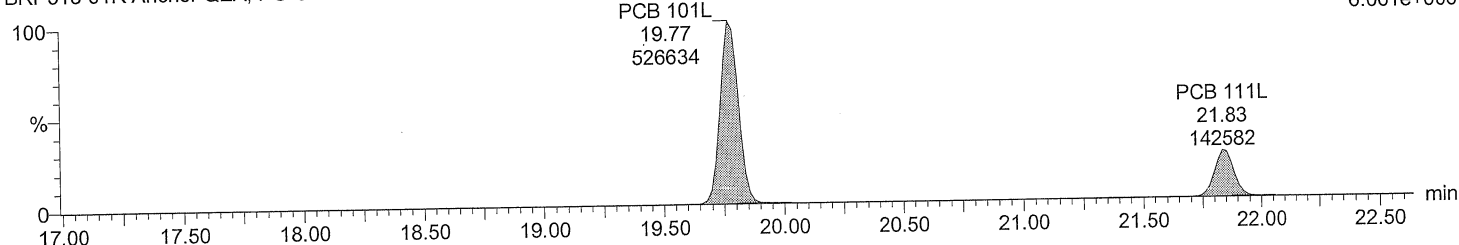


Total PeCB labeled F4

M2160219BS004 Smooth(SG,3x1)

BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

F4:SIR of 14 channels, EI+
339.9178
6.061e+006



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

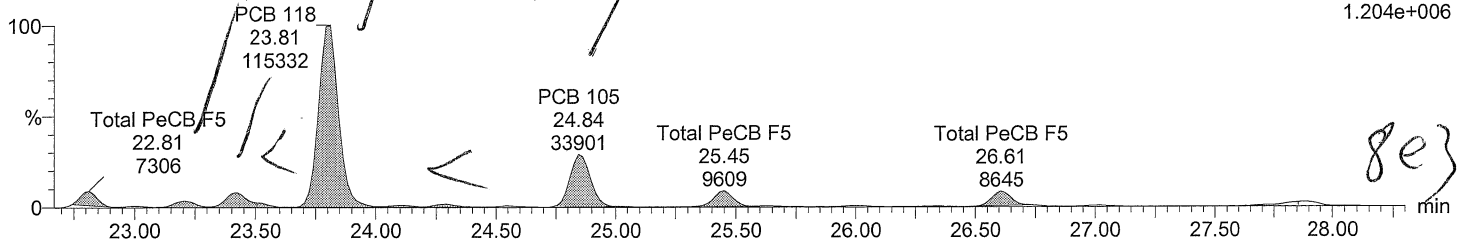
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

Total PeCB F5

M2160219BS004 Smooth(SG,2x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

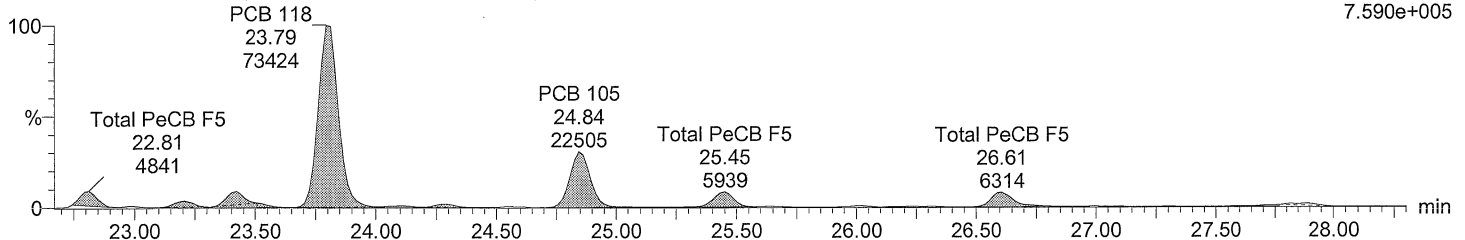
F5:SIR of 14 channels,EI+
325.8805
1.204e+006



Total PeCB F5

M2160219BS004 Smooth(SG,2x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

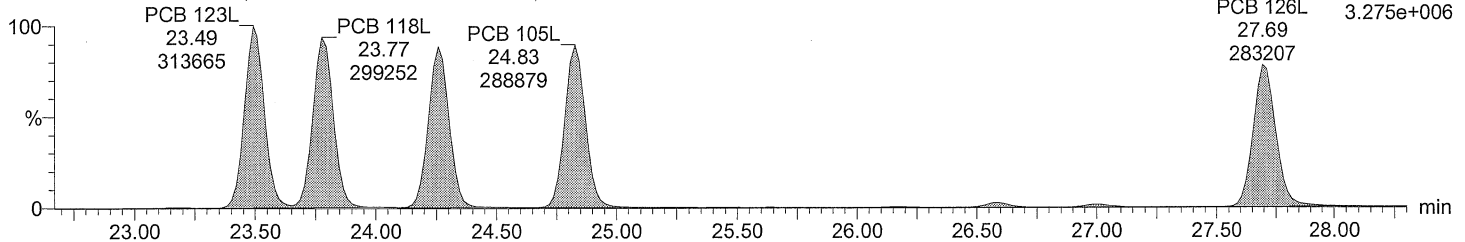
F5:SIR of 14 channels,EI+
327.8775
7.590e+005



Total PeCB labeled F5

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

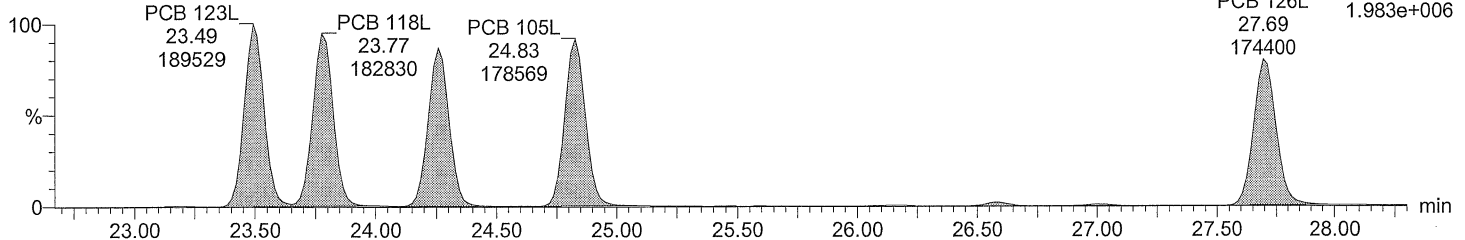
F5:SIR of 14 channels,EI+
337.9207
3.275e+006



Total PeCB labeled F5

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

F5:SIR of 14 channels,EI+
339.9178
1.983e+006



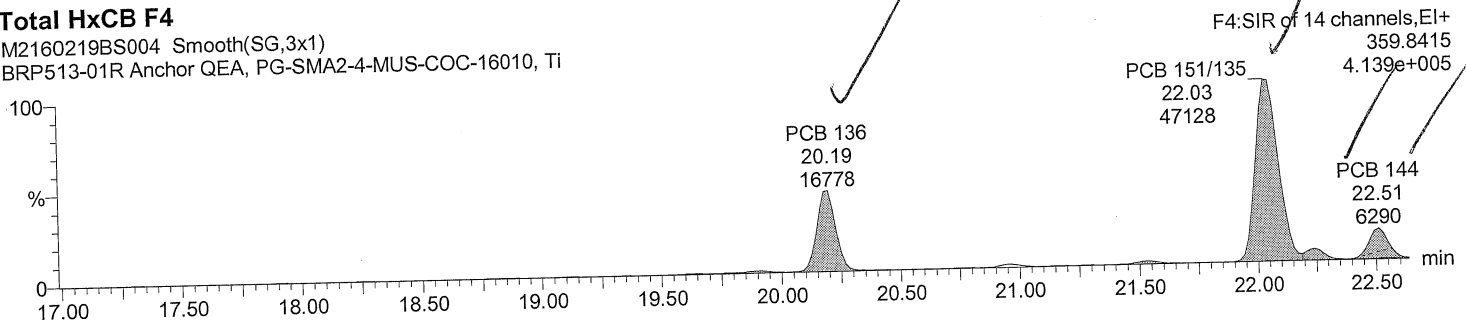
Quantify Sample Report **MassLynx 4.0 SP1**
Acquired Date

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: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

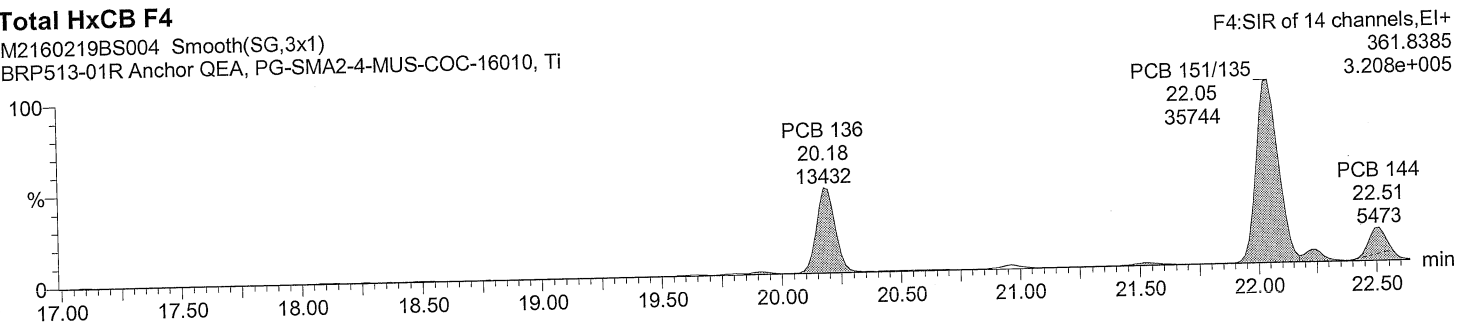
Total HxCB F4

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



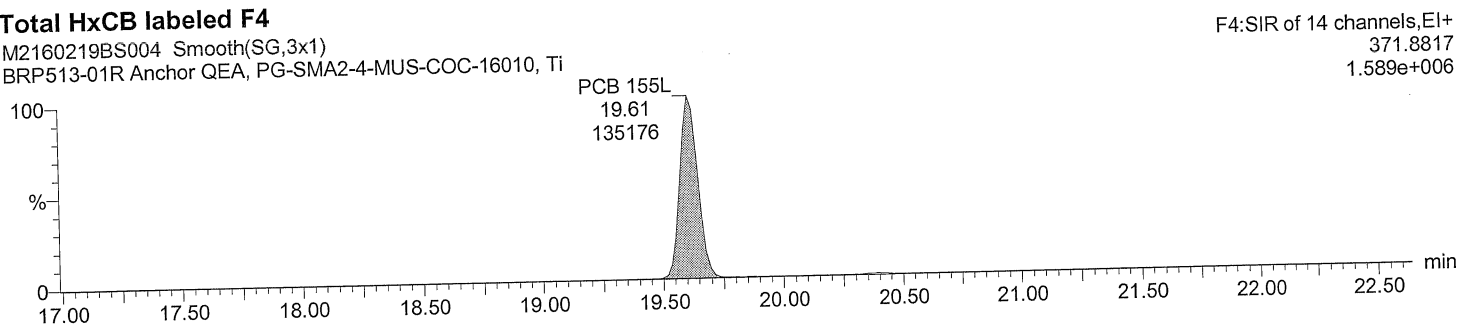
Total HxCB F4

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



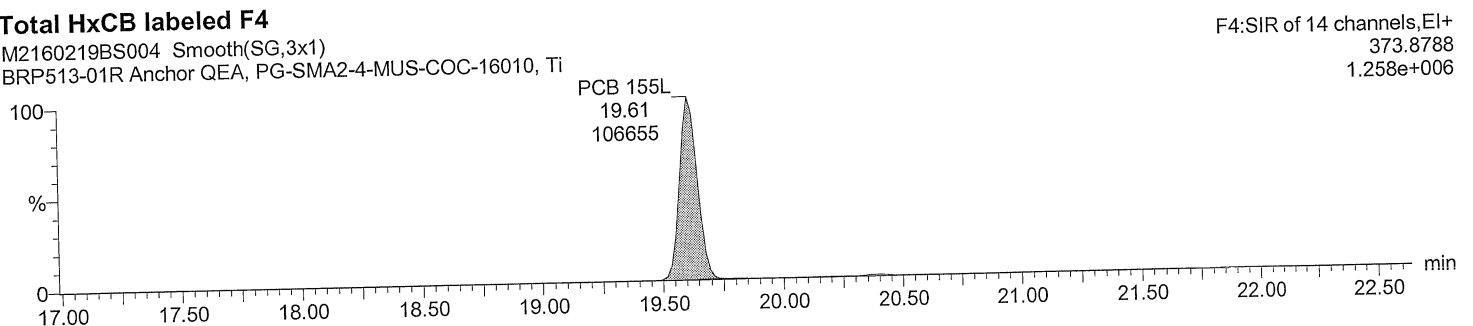
Total HxCB labeled F4

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Total HxCB labeled F4

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

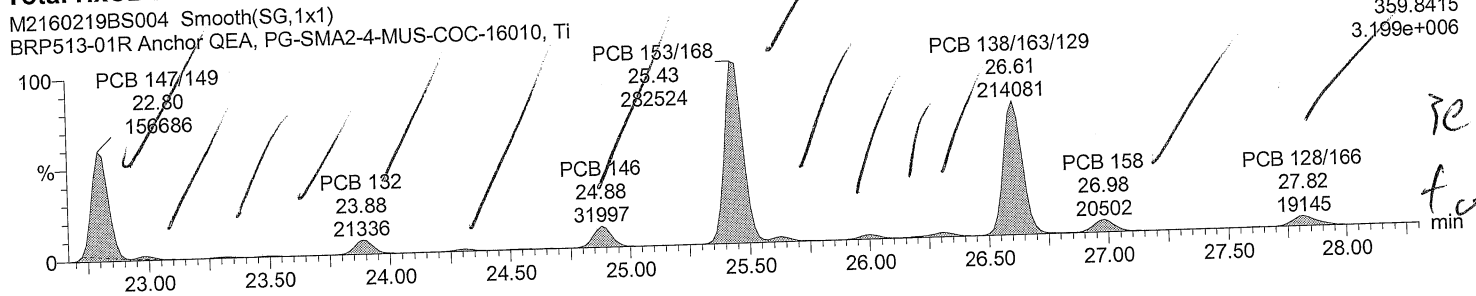


Quantify Sample Report MassLynx 4.0 SP1
Acquired Date

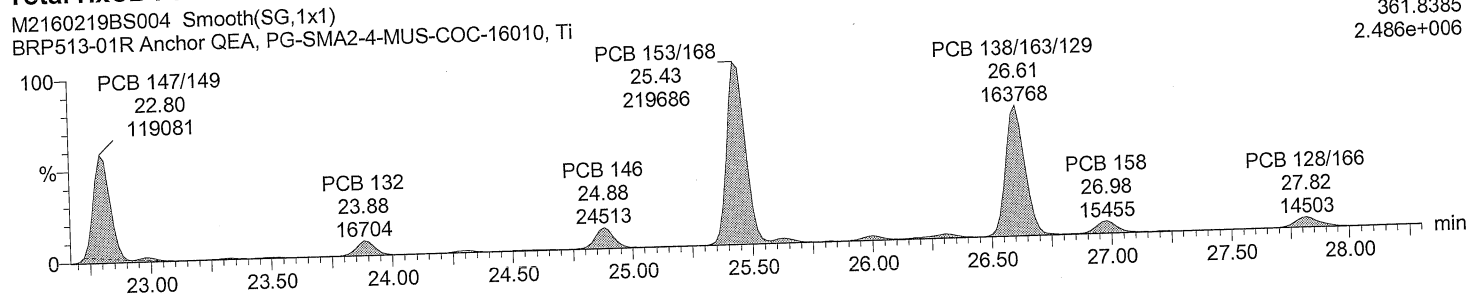
Dataset: C:\MassLynx\Default.pro\QLD\M2160219_samples_1668A.qld
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

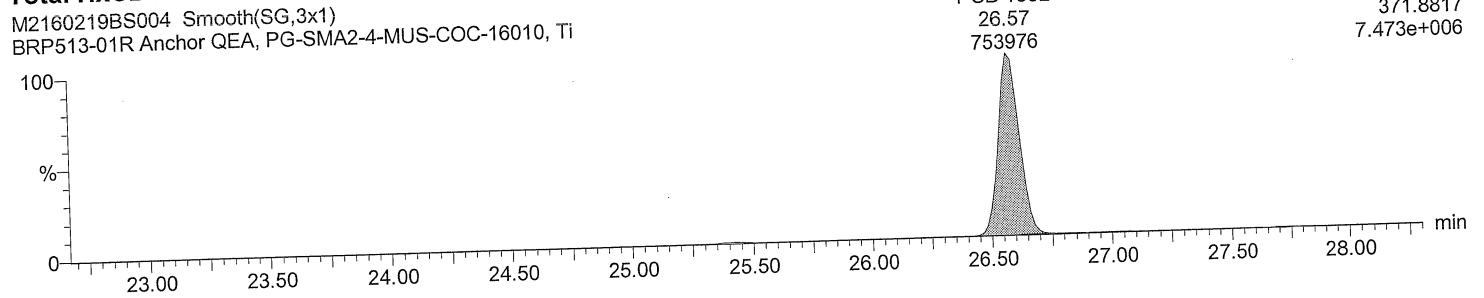
Total HxCB F5



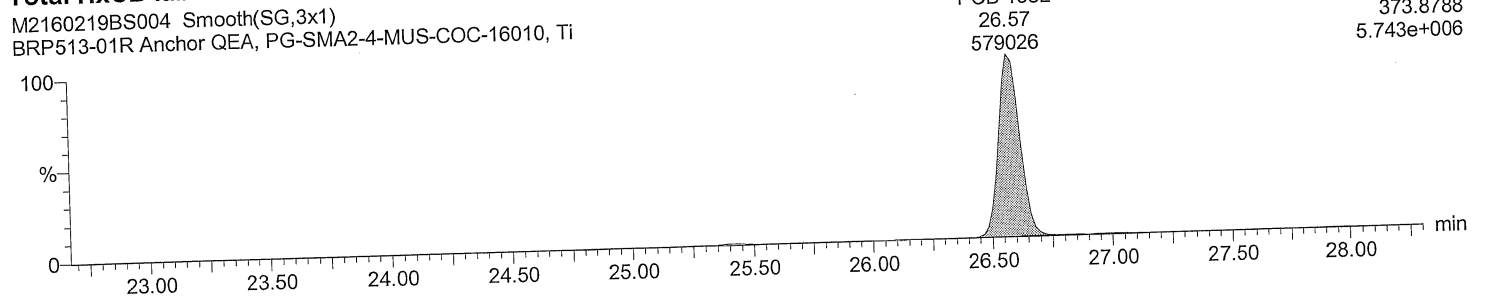
Total HxCB F5



Total HxCB labeled F5



Total HxCB labeled F5



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

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

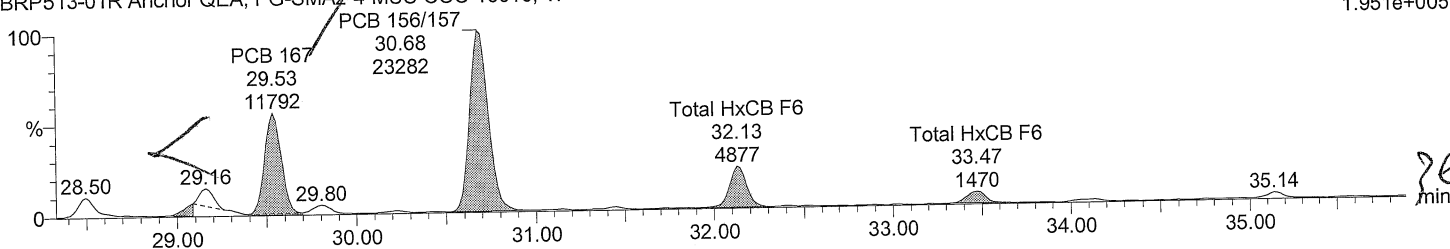
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
 Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

Total HxCB F6

M2160219BS004 Smooth(SG,3x1)
 BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

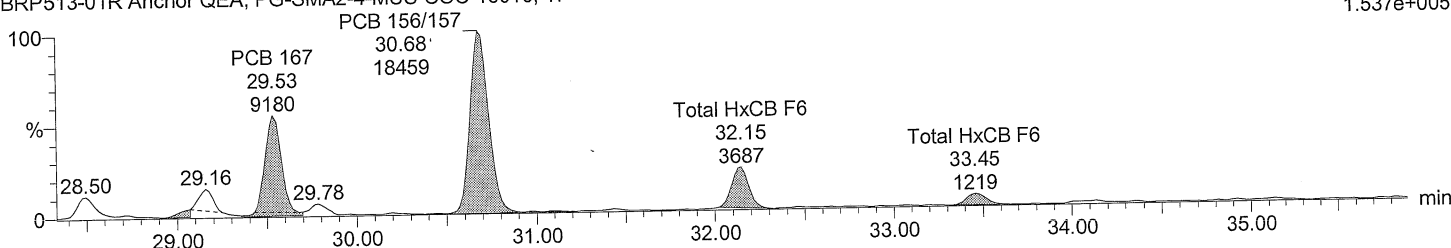
F6:SIR of 14 channels, EI+
 359.8415
 1.951e+005



Total HxCB F6

M2160219BS004 Smooth(SG,3x1)
 BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

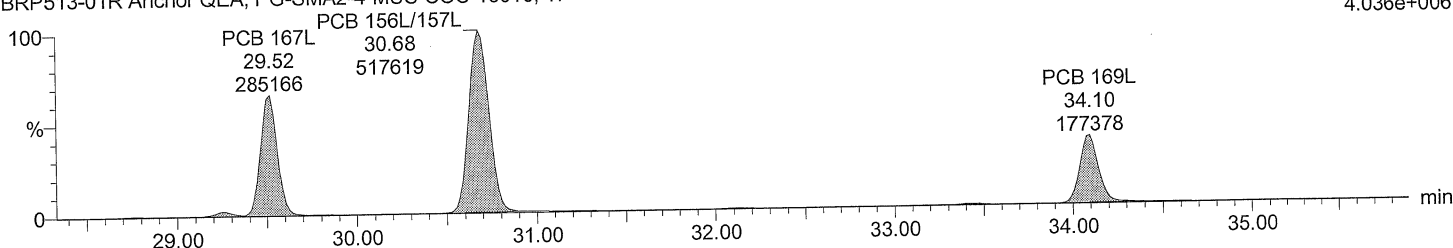
F6:SIR of 14 channels, EI+
 361.8385
 1.537e+005



Total HxCB labeled F6

M2160219BS004 Smooth(SG,3x1)
 BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

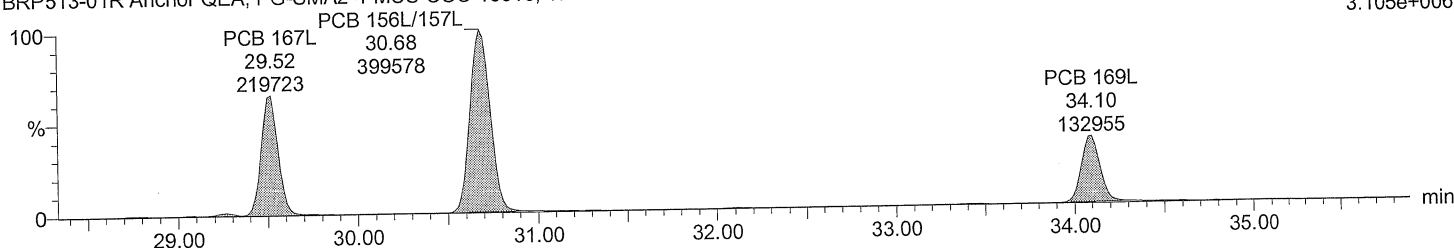
F6:SIR of 14 channels, EI+
 371.8817
 4.036e+006



Total HxCB labeled F6

M2160219BS004 Smooth(SG,3x1)
 BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

F6:SIR of 14 channels, EI+
 373.8788
 3.105e+006



Quantify Sample Report MassLynx 4.0 SP1

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: BRP513-01R

Vial: 4

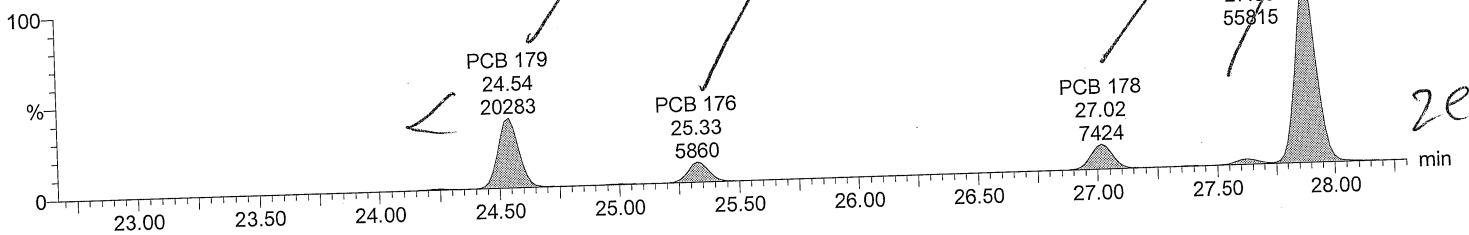
Date: 19-FEB-2016

Time: 14:37:56

Instrument: Autospec-UltimaE

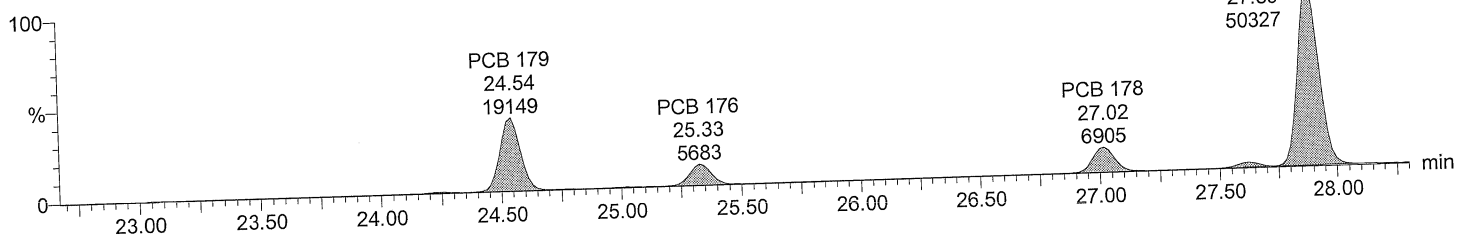
Total HpCB F5

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



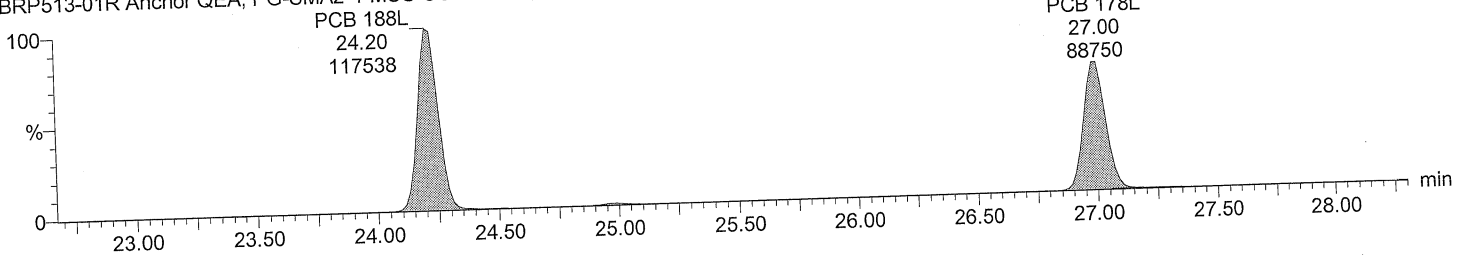
Total HpCB F5

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



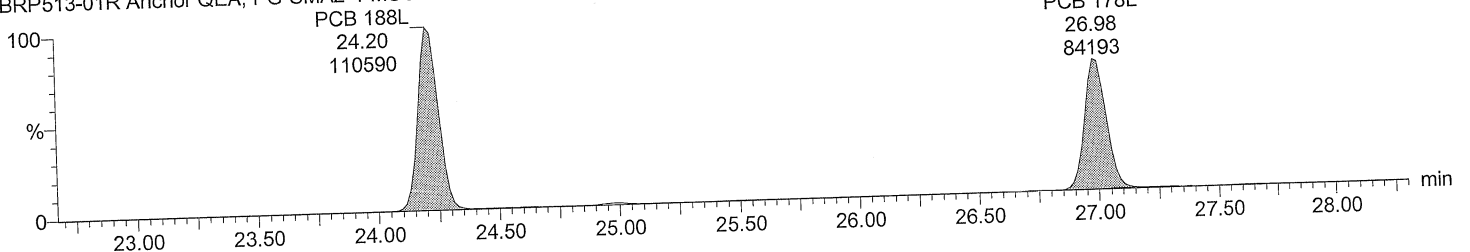
Total HpCB labeled F5

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Total HpCB labeled F5

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Quantify Sample Report MassLynx 4.0 SP1

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: BRP513-01R

Vial: 4

Date: 19-FEB-2016

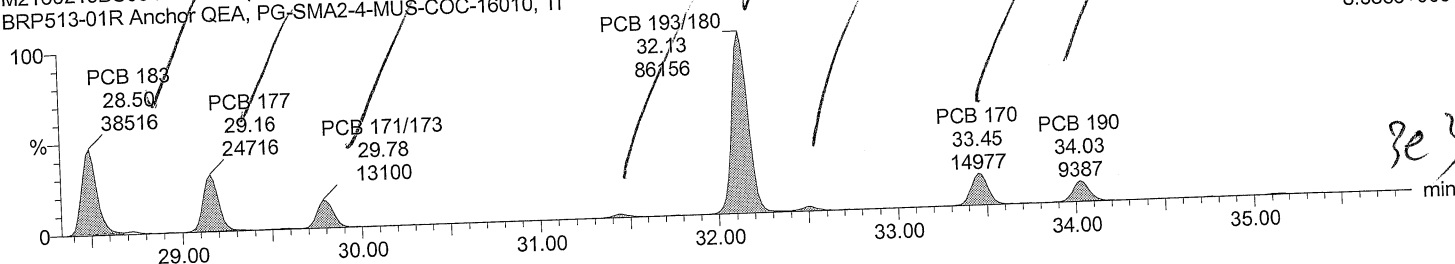
Time: 14:37:56

Instrument: Autospec-UltimaE

Total HpCB F6

M2160219BS004 Smooth(SG,1x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

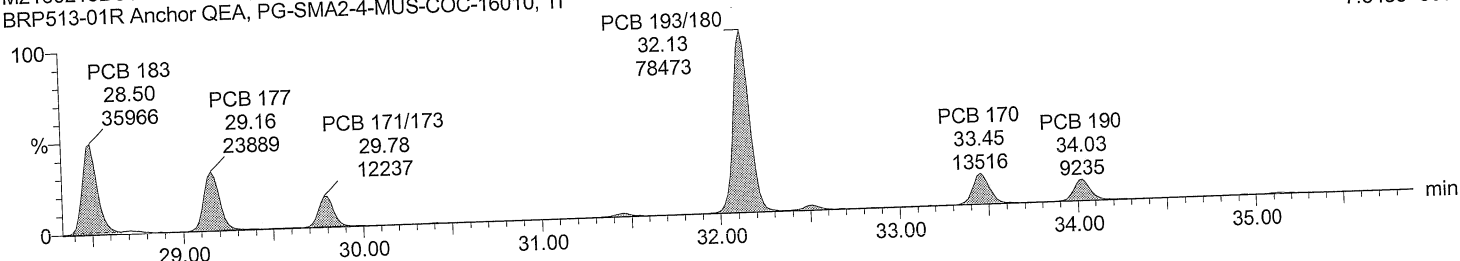
F6:SIR of 14 channels,EI+
393.8025
8.338e+005



Total HpCB F6

M2160219BS004 Smooth(SG,1x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

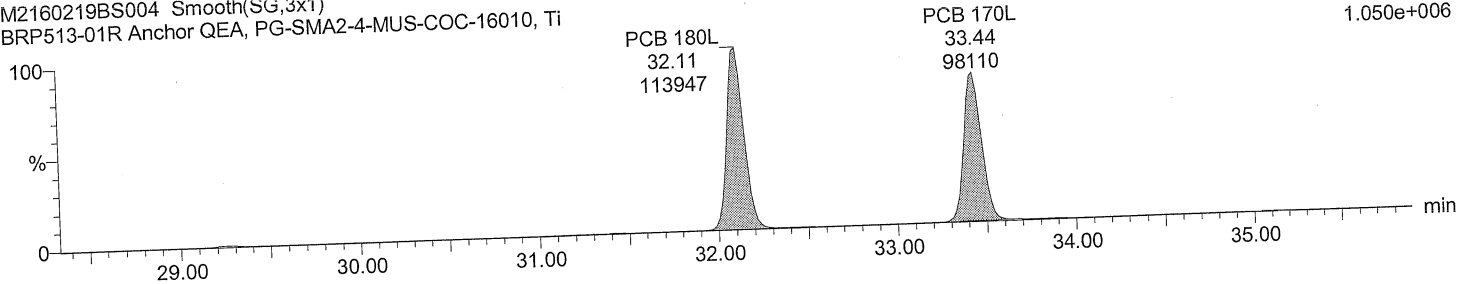
F6:SIR of 14 channels,EI+
395.7995
7.548e+005



Total HpCB labeled F6

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

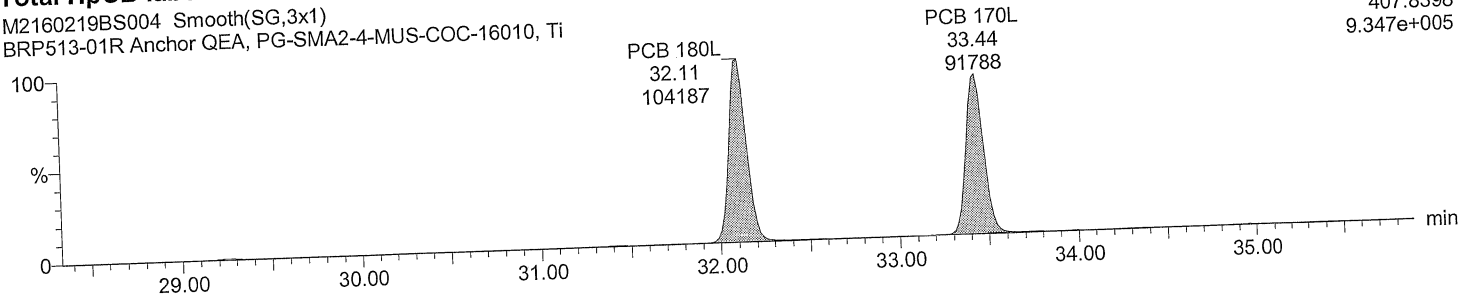
F6:SIR of 14 channels,EI+
405.8428
1.050e+006



Total HpCB labeled F6

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

F6:SIR of 14 channels,EI+
407.8398
9.347e+005



Quantify Sample Report MassLynx 4.0 SP1

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: BRP513-01R

Vial: 4

Date: 19-FEB-2016

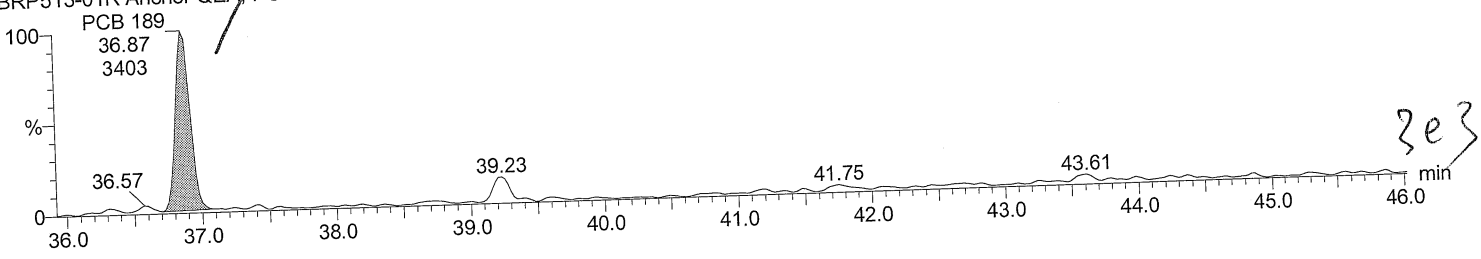
Time: 14:37:56

Instrument: Autospec-UltimaE

Total HpCB F7

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

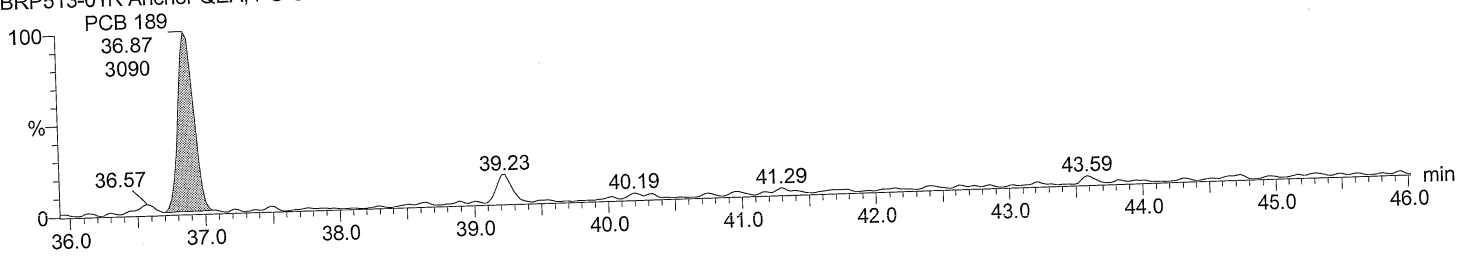
F7:SIR of 18 channels, EI+
393.8025
2.767e+004



Total HpCB F7

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

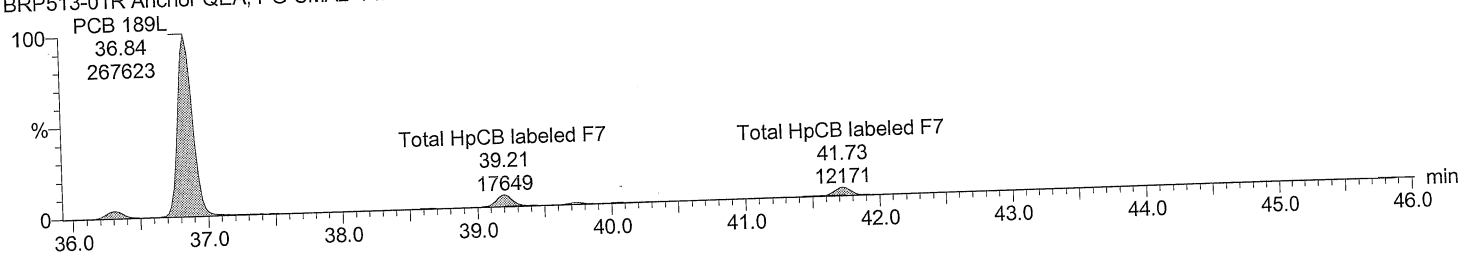
F7:SIR of 18 channels, EI+
395.7995
2.347e+004



Total HpCB labeled F7

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

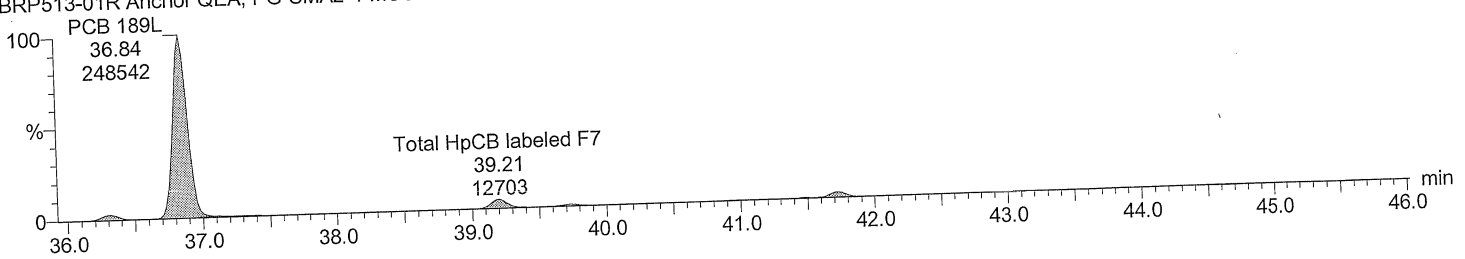
F7:SIR of 18 channels, EI+
405.8428
2.134e+006



Total HpCB labeled F7

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

F7:SIR of 18 channels, EI+
407.8398
1.998e+006



Quantify Sample Report MassLynx 4.0 SP1

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: BRP513-01R

Vial: 4

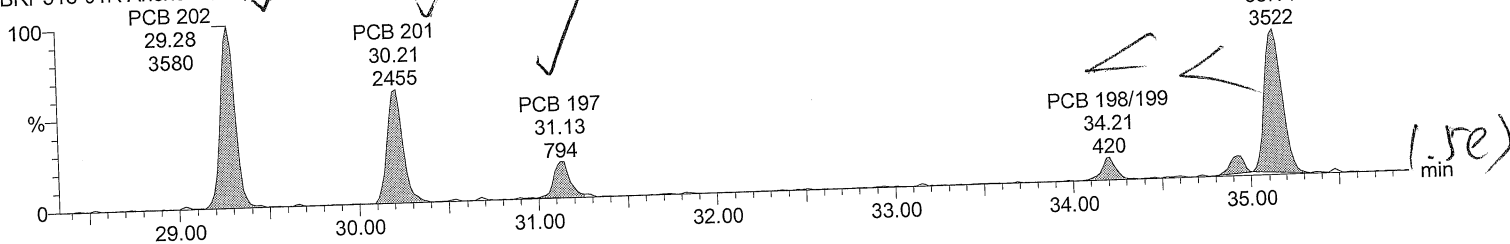
Date: 19-FEB-2016

Time: 14:37:56

Instrument: Autospec-UltimaE

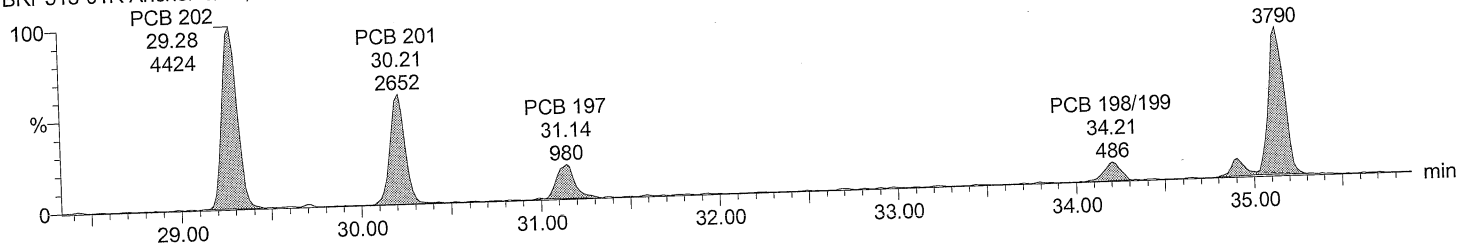
Total OcCB F6

M2160219BS004 Smooth(SG,1x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



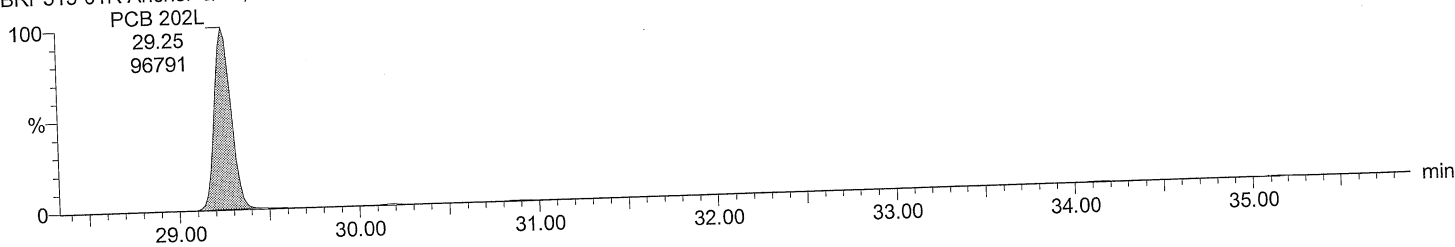
Total OcCB F6

M2160219BS004 Smooth(SG,1x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



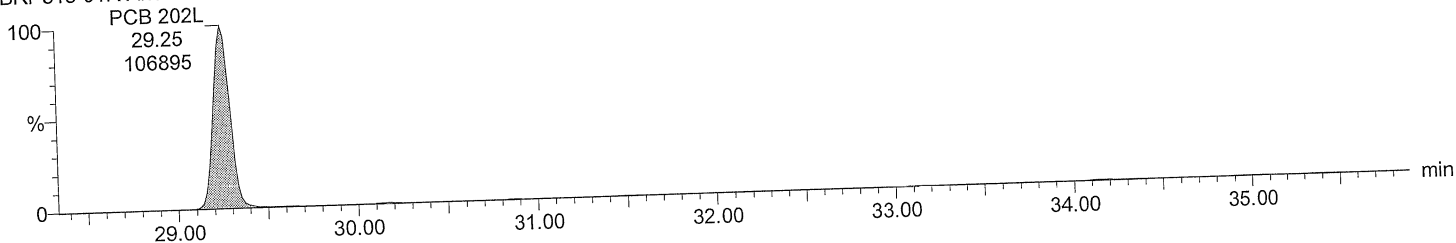
Total OcCB labeled F6

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Total OcCB labeled F6

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

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

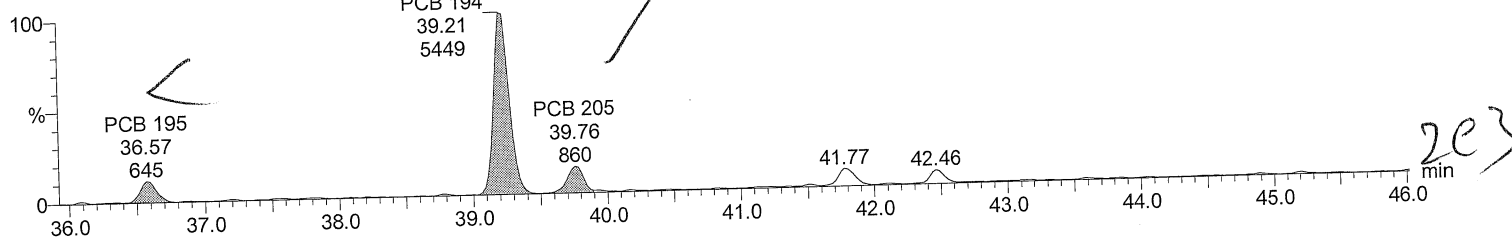
Last Altered: February 23, 2016 12:16:16 PM Eastern Standard Time
 Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

Total OcCB F7

M2160219BS004 Smooth(SG,3x1)
 BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

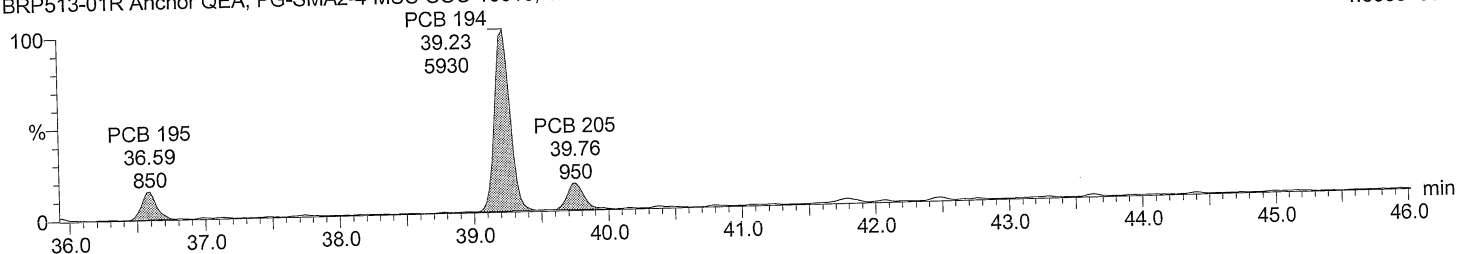
F7:SIR of 18 channels, EI+
 427.7635
 4.179e+004



Total OcCB F7

M2160219BS004 Smooth(SG,3x1)
 BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

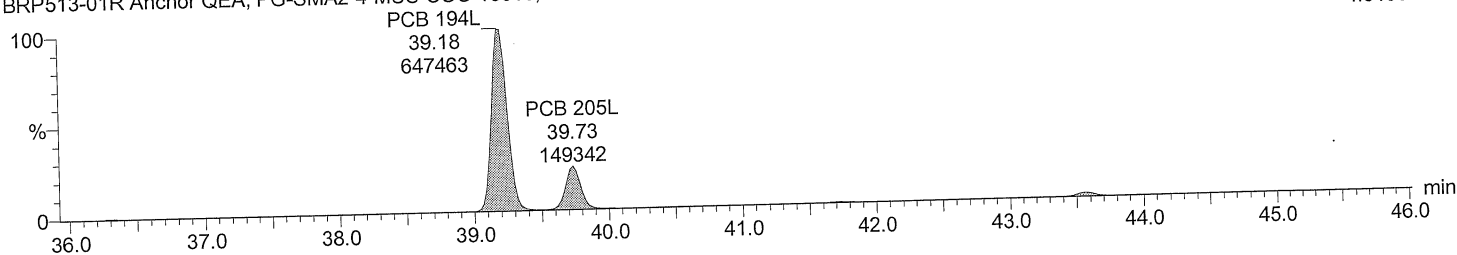
F7:SIR of 18 channels, EI+
 429.7606
 4.535e+004



Total OcCB labeled F7

M2160219BS004 Smooth(SG,3x1)
 BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

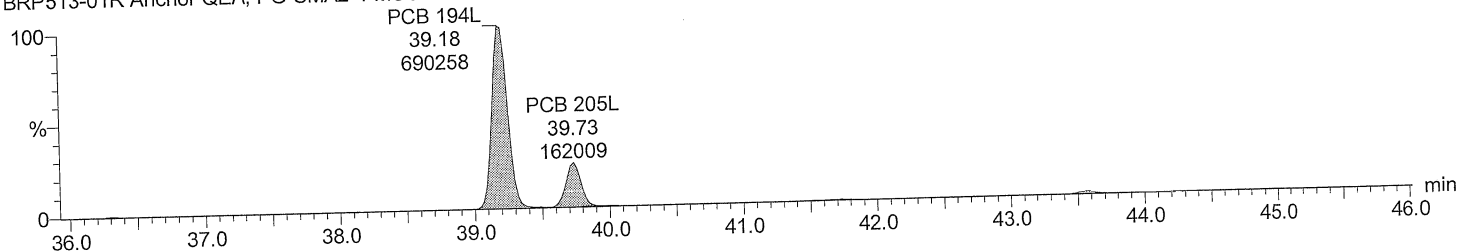
F7:SIR of 18 channels, EI+
 439.8038
 4.915e+006



Total OcCB labeled F7

M2160219BS004 Smooth(SG,3x1)
 BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

F7:SIR of 18 channels, EI+
 441.8008
 5.258e+006



Acquired Date

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

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

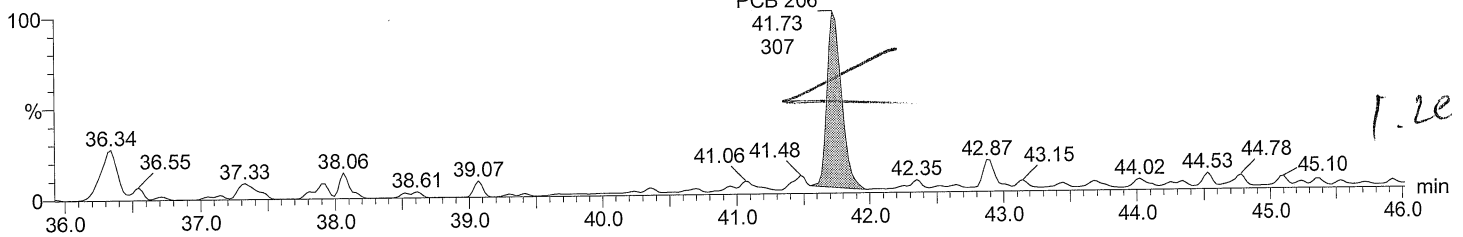
Printed: February 23, 2016 12:17:46 PM Eastern Standard Time

Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

Total NoCB F7

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

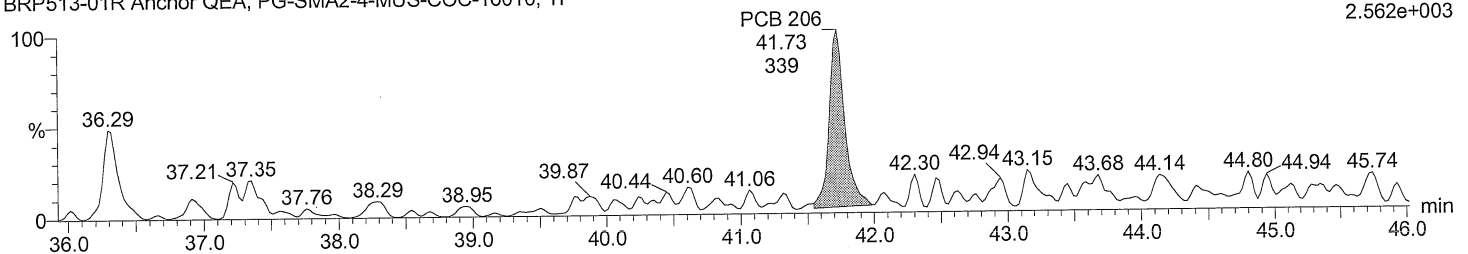
F7:SIR of 18 channels,EI+
461.7246
2.492e+003



Total NoCB F7

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

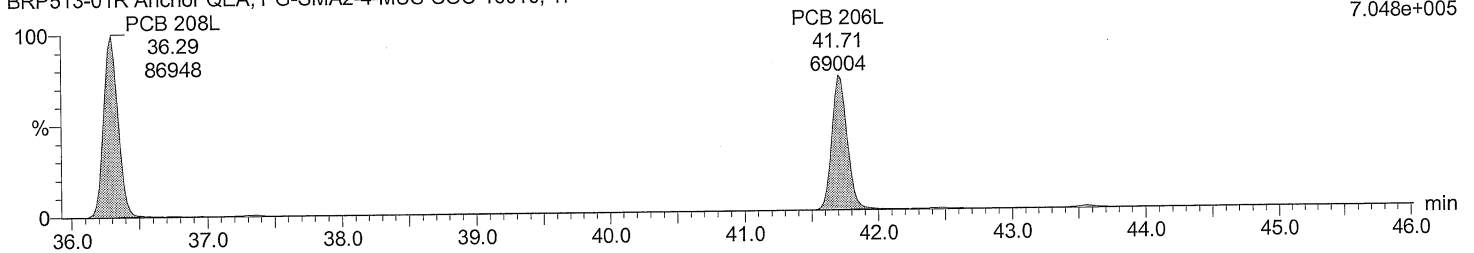
F7:SIR of 18 channels,EI+
463.7216
2.562e+003



Total NoCB labeled F7

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

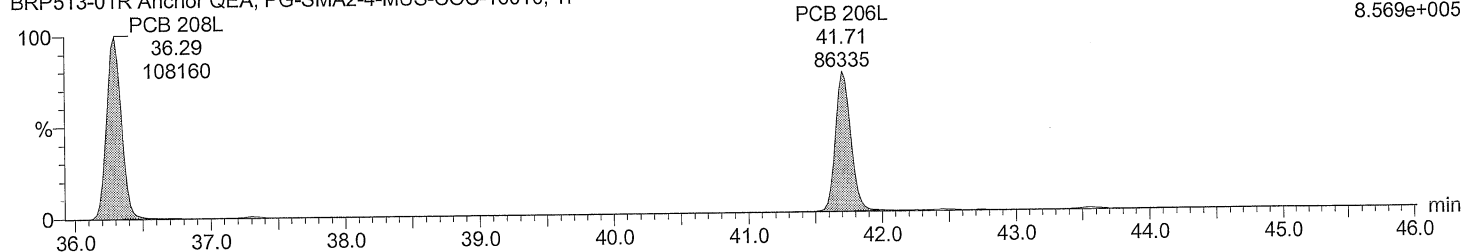
F7:SIR of 18 channels,EI+
473.7648
7.048e+005



Total NoCB labeled F7

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

F7:SIR of 18 channels,EI+
475.7619
8.569e+005



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

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

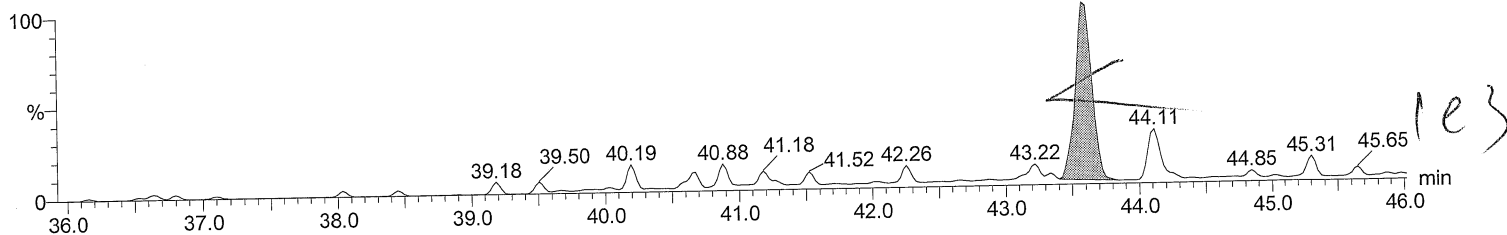
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Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

Total DeCB F7

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BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

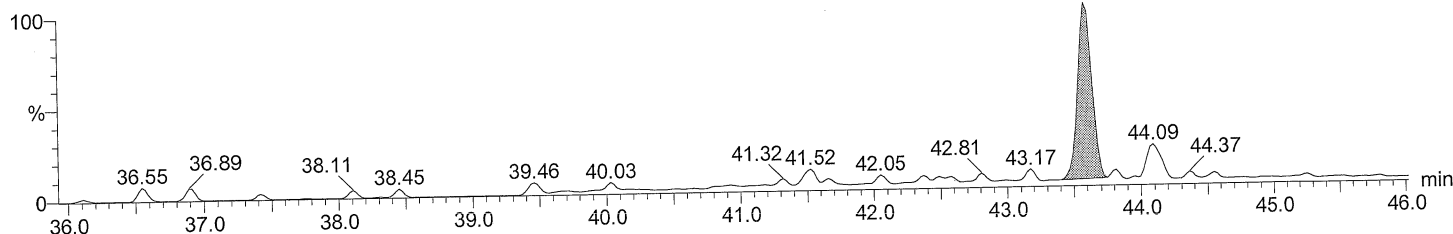
PCB 209 43.59 252
F7:SIR of 18 channels, EI+
497.6826
1.830e+003



Total DeCB F7

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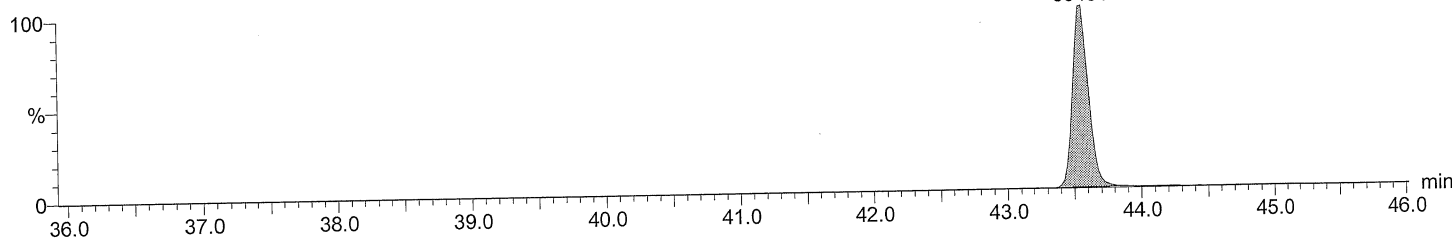
PCB 209 43.59 163
F7:SIR of 18 channels, EI+
499.6797
1.398e+003



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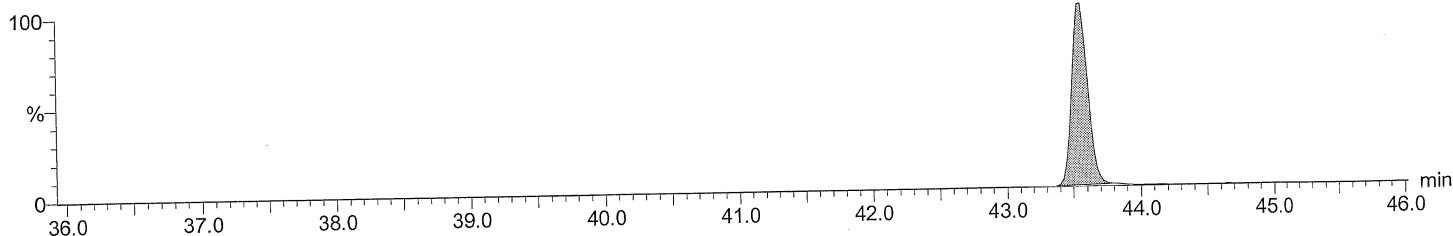
PCB 209L 43.56 80451
F7:SIR of 18 channels, EI+
509.7229
5.987e+005



Total DeCB labeled F7

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti

PCB 209L 43.56 65543
F7:SIR of 18 channels, EI+
511.7199
4.892e+005



Acquired Date

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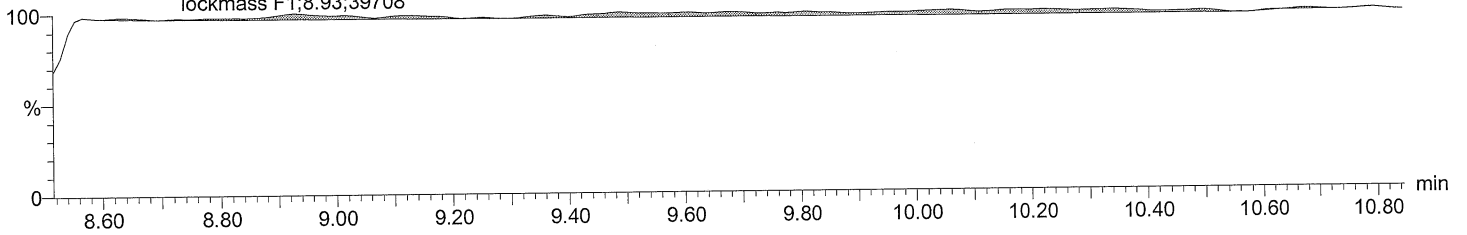
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Vial: 4
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Time: 14:37:56
Instrument: Autospec-UltimaE

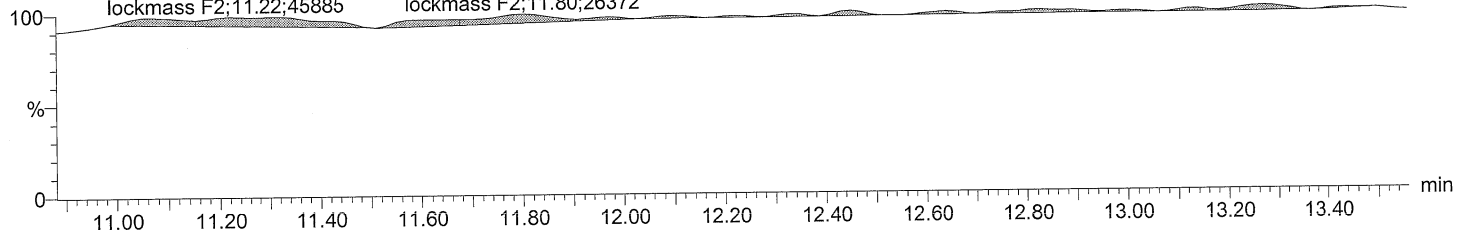
lockmass F1

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BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti 218.9856
lockmass F1;8.93;39708 9.807e+006



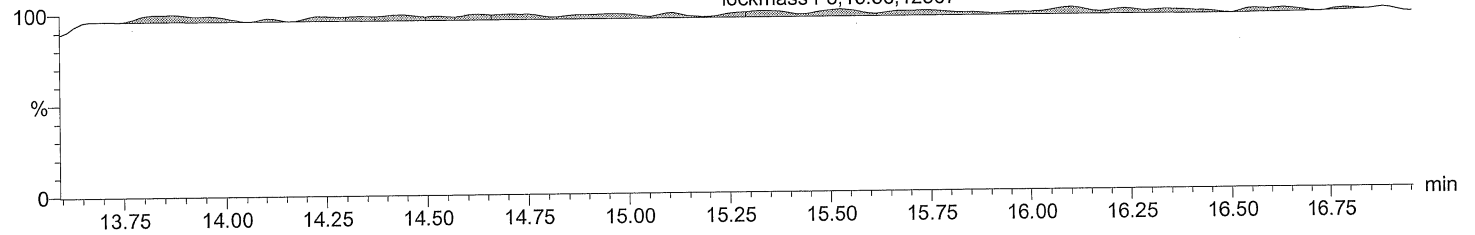
lockmass F2

M2160219BS004 Smooth(SG,3x1) F2:SIR of 16 channels,EI+
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti 242.9856
lockmass F2;11.22;45885 lockmass F2;11.80;26372 3.517e+006



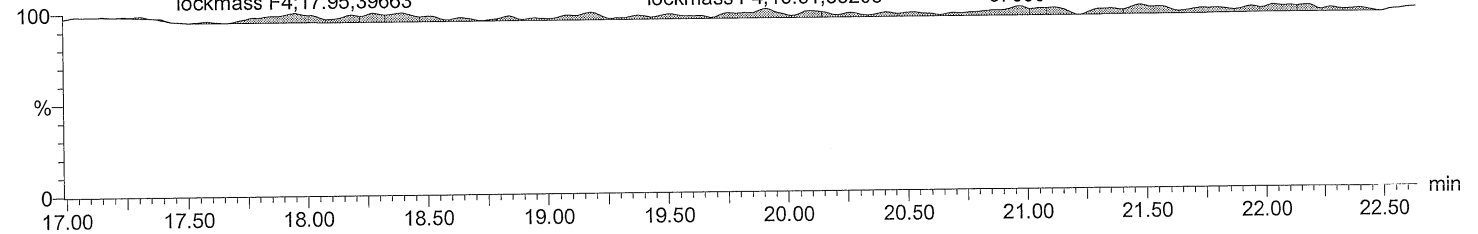
lockmass F3

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BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti 292.9824
lockmass F3;15.53;12967 2.634e+006



lockmass F4

M2160219BS004 Smooth(SG,3x1) lockmass F4 lockmass F4 F4:SIR of 14 channels,EI+
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, Ti 20.96 21.48 330.9792
lockmass F4;17.95;39663 lockmass F4;19.91;35206 37000 31187 3.648e+006



Acquired Date

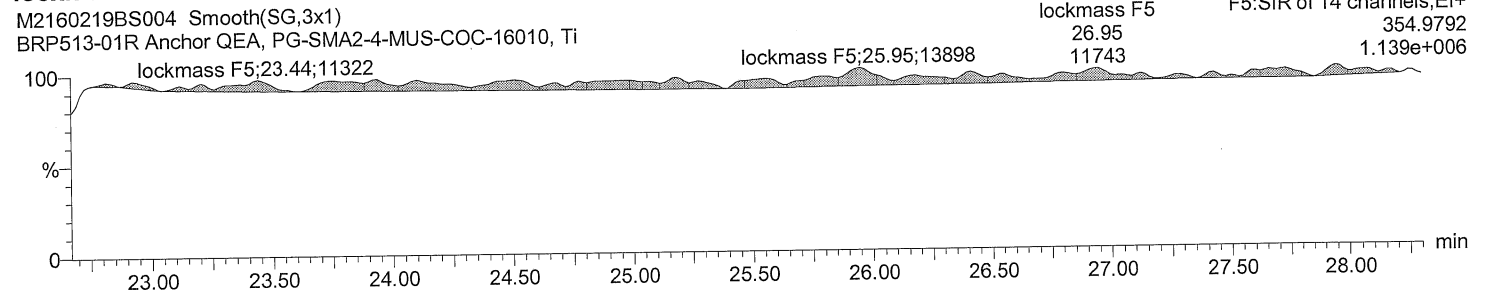
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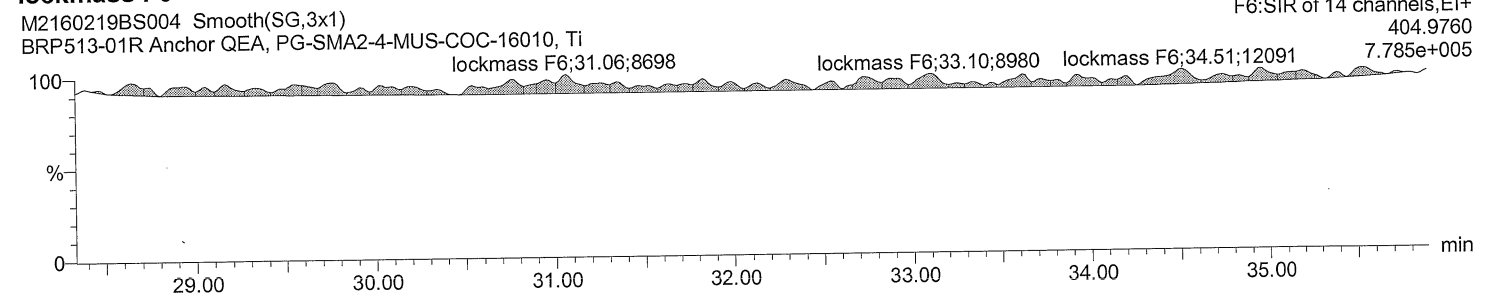
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Description: BRP513-01R
Vial: 4
Date: 19-FEB-2016
Time: 14:37:56
Instrument: Autospec-UltimaE

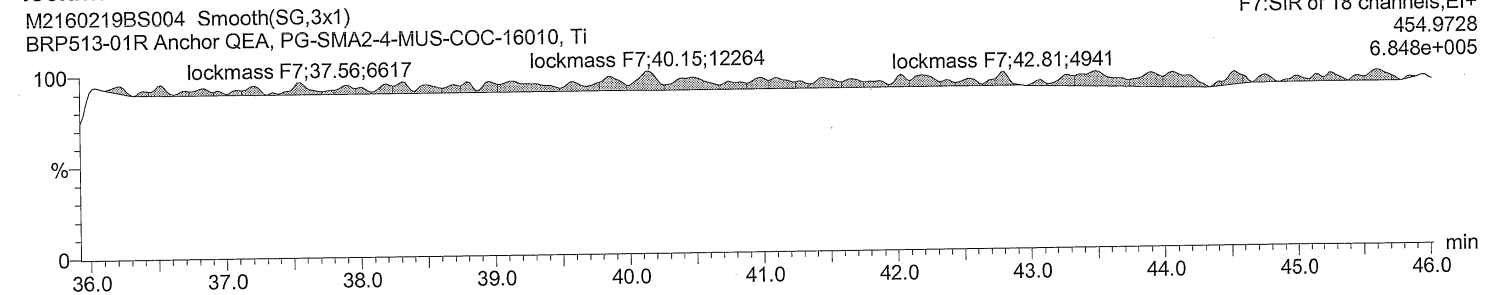
lockmass F5



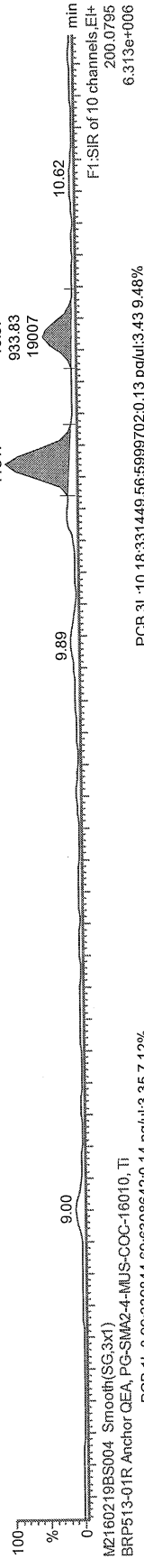
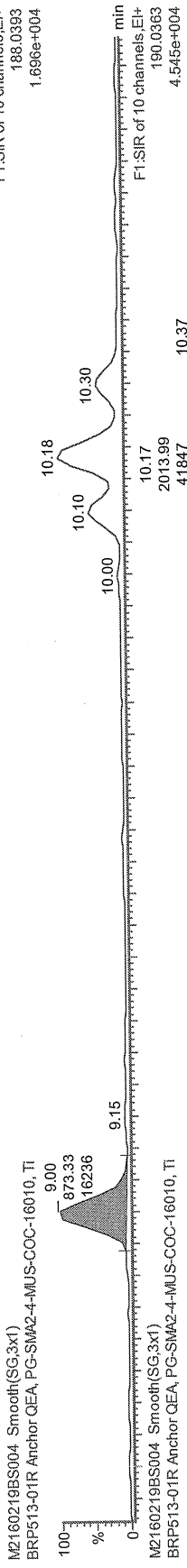
lockmass F6



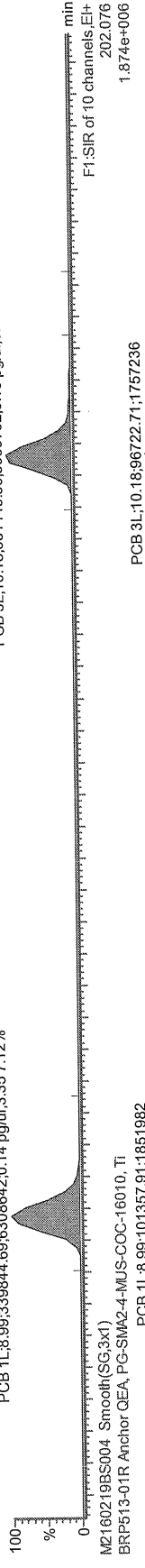
lockmass F7



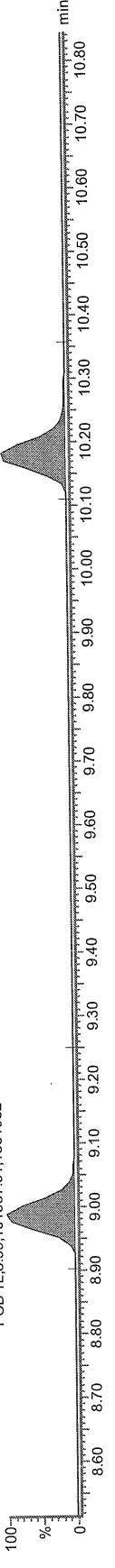
F1:SIR of 10 channels,EI+
188.0393
1.696e+004



PCB 3L;10.18;331449.56;5999702;0.13 pg/ul;3.43 9.48%



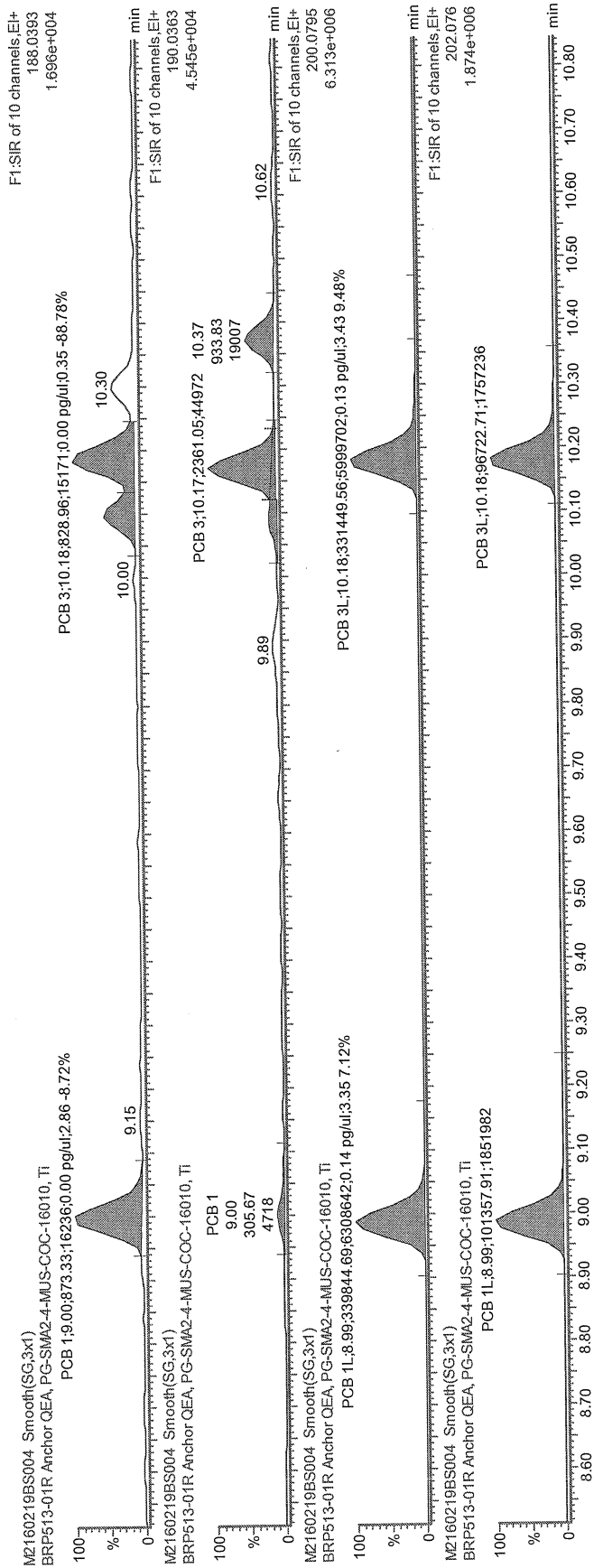
PCB 3L;10.18;96722.71;1757236



bej

2016-02-23

FEB 23 2016



MS

2016-02-23

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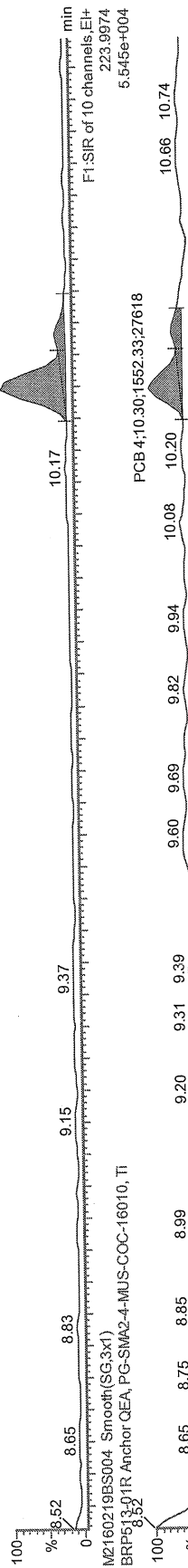
FEB 23 2016

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F1:SIR of 10 channels, E1+
222.0003
4.740e+004

PCB 4;10.30;2362.89;44956.000 pg/lul;1.52 -2.43%

M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, T1



M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, T1



M2160219BS004 Smooth(SG,3x1)
BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, T1

PCB 4L;10.30;134932.88;2592780.011 pg/lul;1.65 6.04%



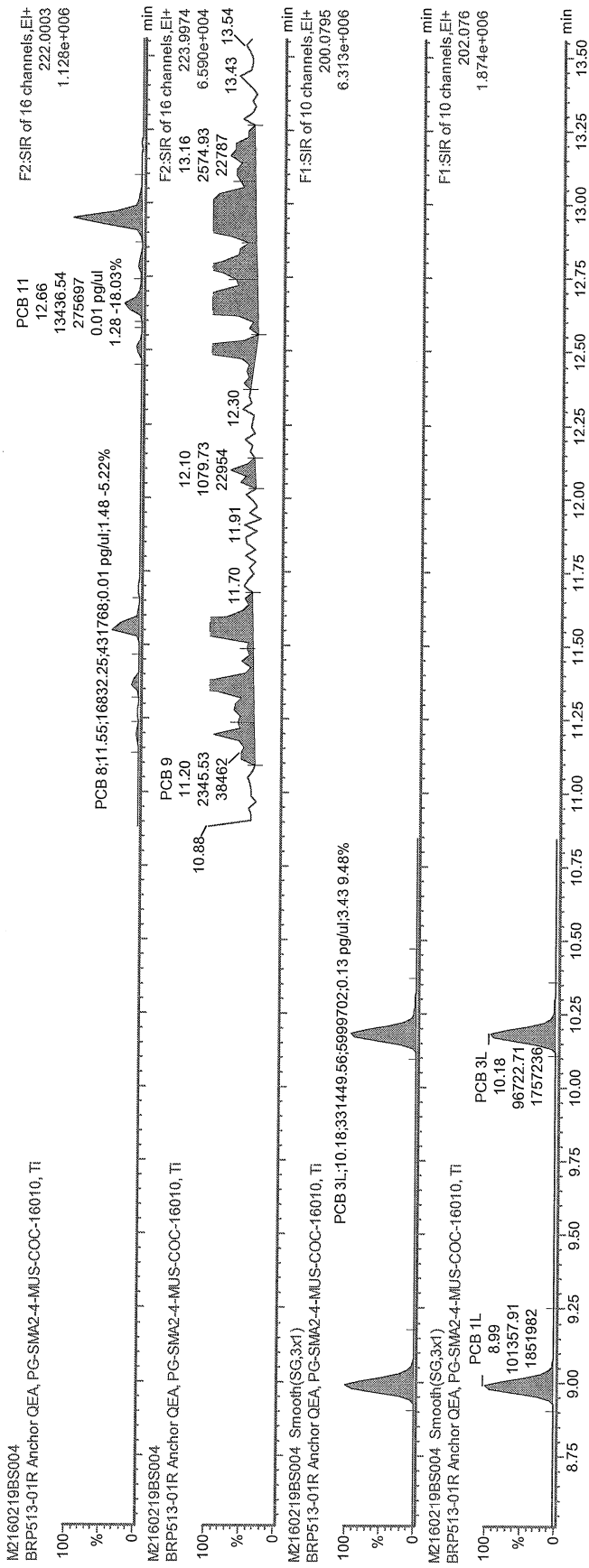
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BRP513-01R Anchor QEA, PG-SMA2-4-MUS-COC-16010, T1



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2016-02-23

FEB 23 2016



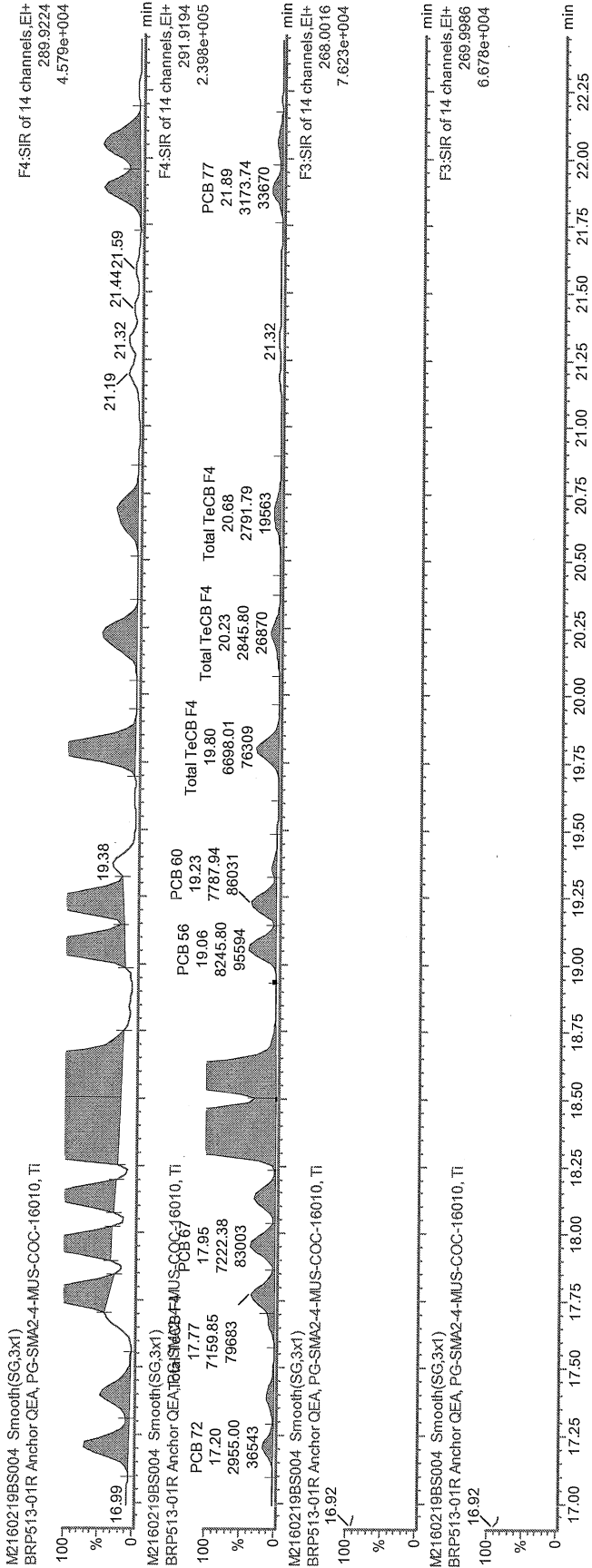
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'2016-02-23

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FEB 23 2016

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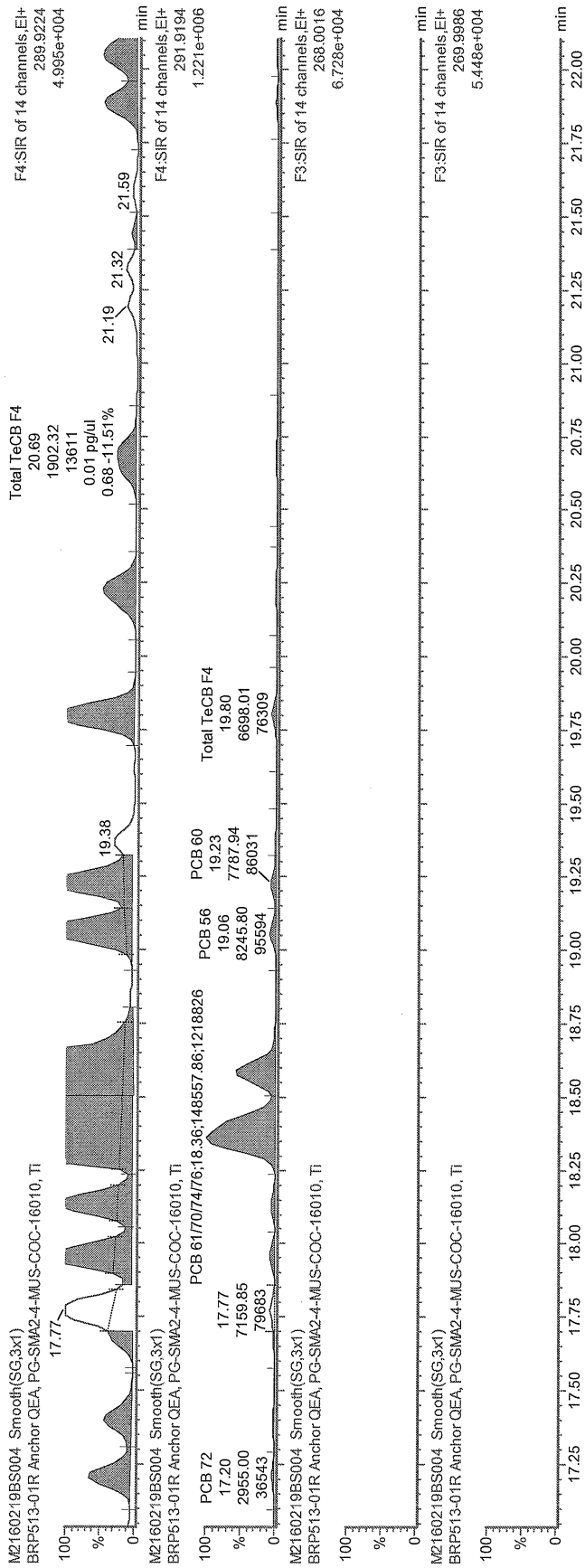


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'2016-02-23

FEB 23 2016

de



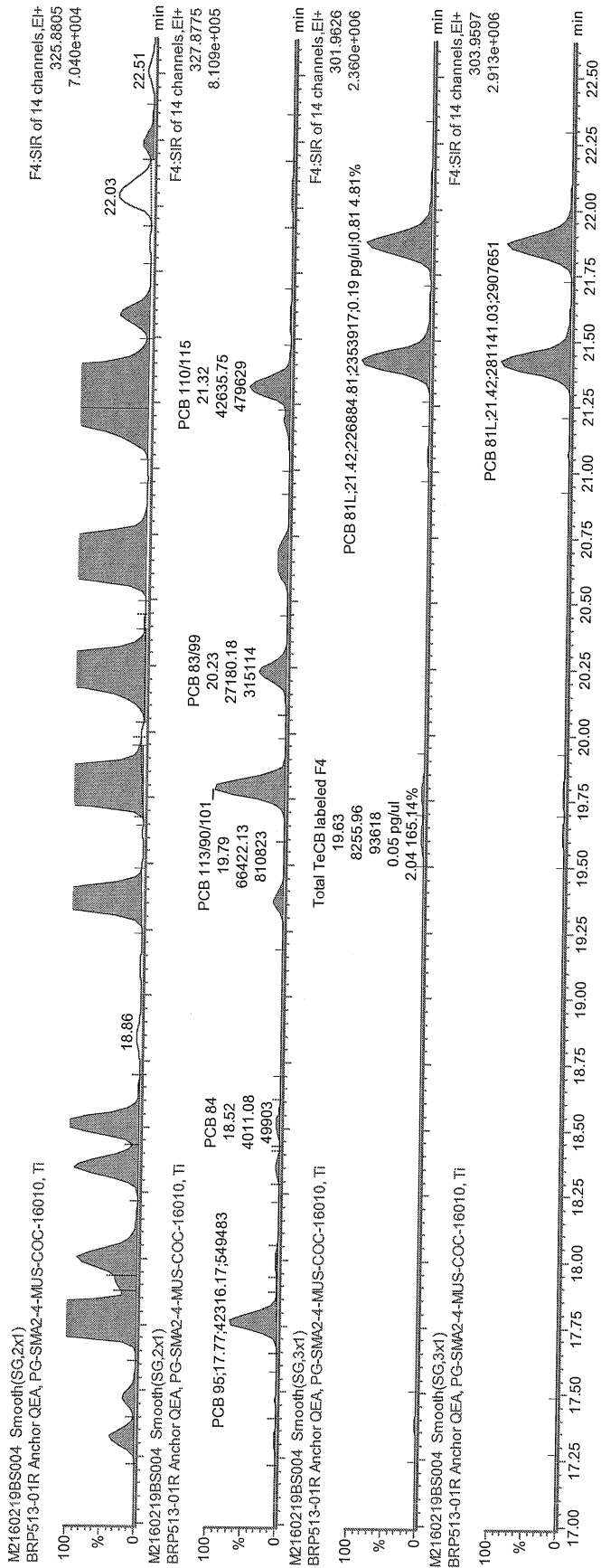
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FEB 23 2016

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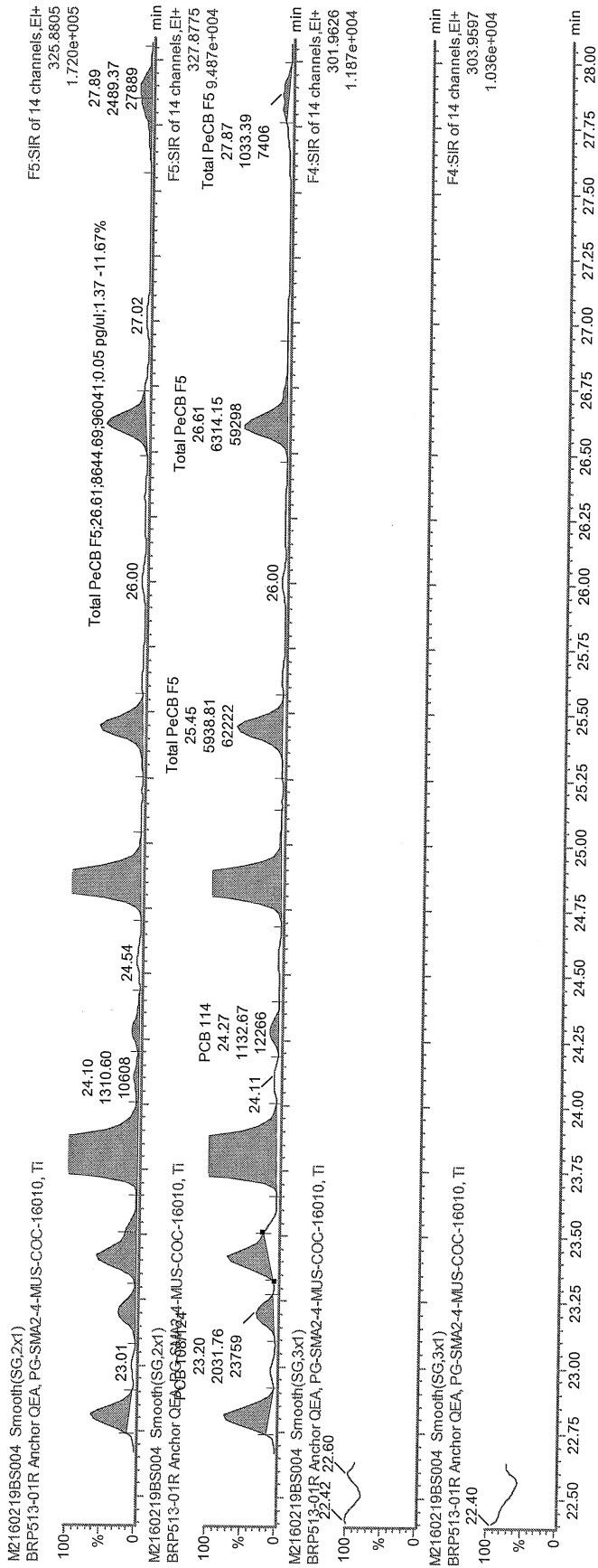
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2016-02-23

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FEB 23 2016

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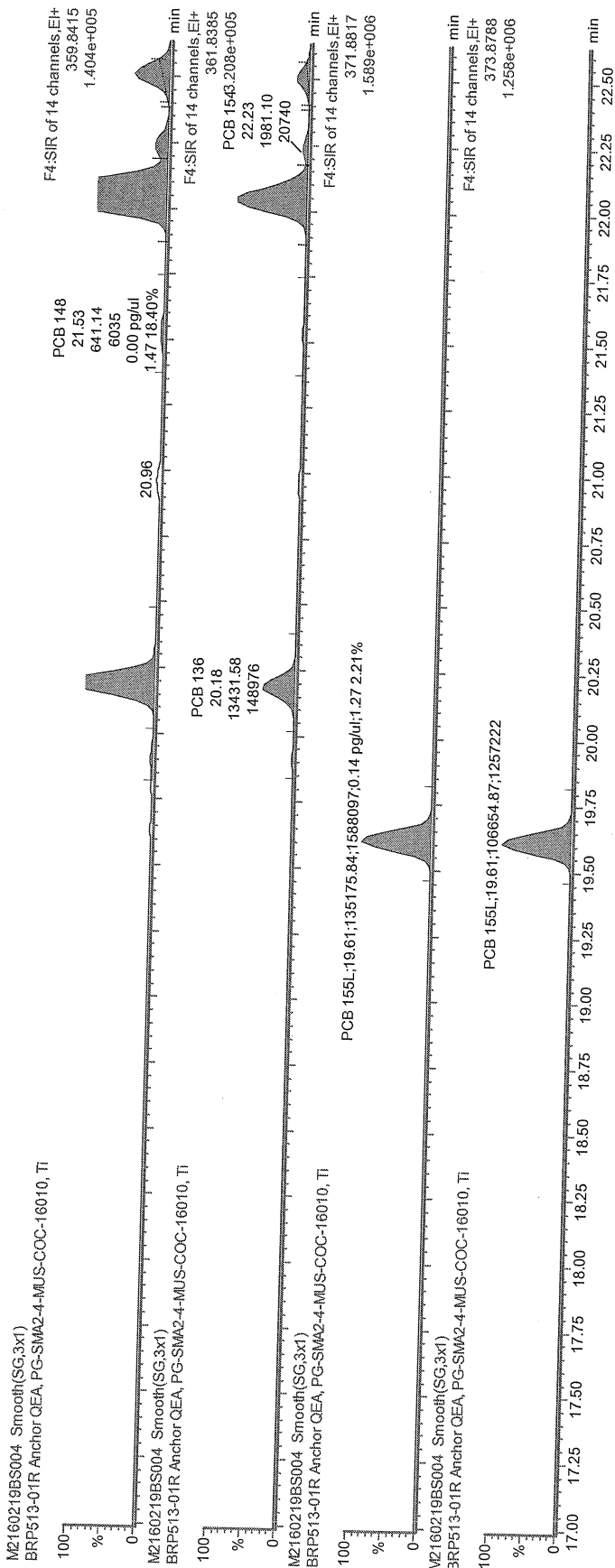
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'2016-02-23

[Signature]

FEB 23 2016

[Signature]



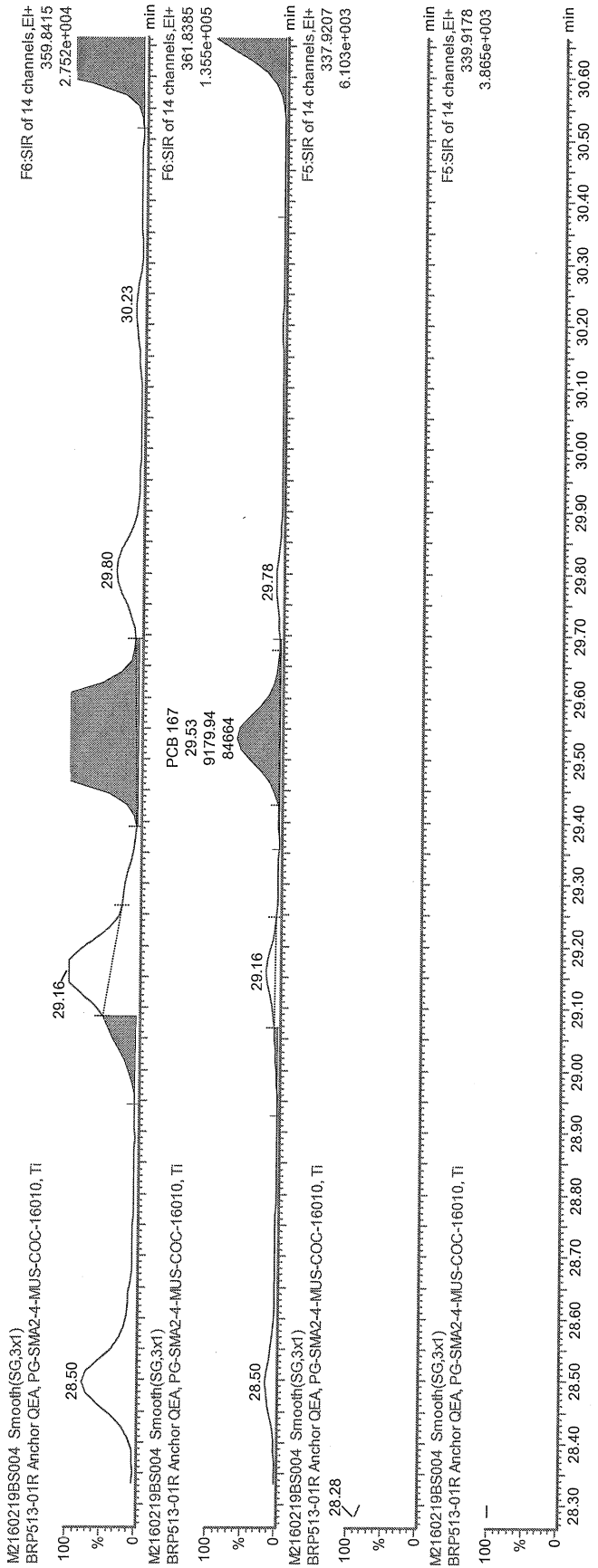
MS

2016-02-23

J

FEB 23 2016

OC



MS

'2016-02-23

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FEB 23 2016

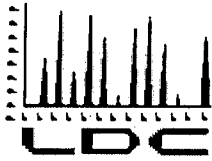
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Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

APPENDIX E
DATA VALIDATION REPORTS



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Anchor Environmental, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101
ATTN: Ms. Cindy Fields

January 19, 2016

SUBJECT: Port Gamble, Data Validation

Dear Ms. Fields,

Enclosed is the final validation report for the fraction listed below. This SDG was received on December 23, 2015. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #35625:

SDG # Fraction

AQJ9 Polynuclear Aromatic Hydrocarbons

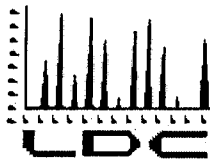
The data validation was performed under Stage 2B guidelines. The analyses were validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan for Port Gamble Bay, Washington, May 2014
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink
Project Manager/Chemist



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Anchor Environmental, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101
ATTN: Ms. Cindy Fields

February 22, 2016

SUBJECT: Revised Port Gamble, Data Validation

Dear Ms. Fields,

Enclosed is the revised validation report for the fraction listed below. Please replace the previously submitted report with the enclosed revised report.

LDC Project #35625:

SDG # Fraction

AQJ9 Polynuclear Aromatic Hydrocarbons

- Revised to add method blank qualifications.

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink
Project Manager/Chemist

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Port Gamble

LDC Report Date: February 22, 2016

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: Stage 2B

Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): AQJ9

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-GP-1-PEMD-151109-A	AQJ9A	PEMD	11/09/15
PG-PJ-1-PEMD-151109-A	AQJ9C	PEMD	11/09/15
PG-WS-1-PEMD-151109-A	AQJ9E	PEMD	11/09/15
PG-SMA2-5-PEMD-151109-A	AQJ9G	PEMD	11/09/15
PG-SMA2-4-PEMD-151109-A	AQJ9I	PEMD	11/09/15
PG-SMA2-4-PEMD-151109-ADL	AQJ9IDL	PEMD	11/09/15
PG-SMA2-3-PEMD-151110-A	AQJ9K	PEMD	11/10/15
PG-SMA2-3-PEMD-151110-ADL	AQJ9KDL	PEMD	11/10/15
PG-SMA2-3-PEMD-151110-B	AQJ9L	PEMD	11/10/15
PG-SMA2-3-PEMD-151110-BDL	AQJ9LDL	PEMD	11/10/15
PG-SMA2-2-PEMD-151110-A	AQJ9M	PEMD	11/10/15
PG-SMA2-2-PEMD-151110-ADL	AQJ9MDL	PEMD	11/10/15
PG-SMA2-1-PEMD-151110-A	AQJ9O	PEMD	11/10/15
PG-SMA2-1-PEMD-151110-ADL	AQJ9ODL	PEMD	11/10/15
PG-FB-PEMD-151110	AQJ9Q	PEMD	11/10/15
PG-TB-PEMD-151110	AQJ9R	PEMD	11/10/15

PEMD= Polyethylene Membrane Device

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Quality Assurance Project Plan for Port Gamble Bay, Washington (May 2014) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Polynuclear Aromatic Hydrocarbons (PAHs) by Environmental Protection Agency (EPA) SW 846 Method 8270D in Selected Ion Monitoring (SIM) mode

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
12/14/15	Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	26.0 24.7 37.1	PG-SMA2-4-PEMD-151109-ADL PG-SMA2-3-PEMD-151110-ADL PG-SMA2-3-PEMD-151110-BDL PG-SMA2-2-PEMD-151110-ADL PG-SMA2-1-PEMD-151110-ADL	UU (all non-detects) UU (all non-detects) UU (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Extraction Date	Compound	Concentration	Associated Samples
MB-111815	11/18/15	Naphthalene	1.33 ug/Kg	All samples in SDG AQJ9

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
PG-SMA2-4-PEMD-151109-ADL (10X)	Naphthalene	22.6 ug/Kg	22.6U ug/Kg
PG-SMA2-3-PEMD-151110-ADL (10X)	Naphthalene	14.3 ug/Kg	14.3U ug/Kg
PG-SMA2-3-PEMD-151110-BDL (10X)	Naphthalene	13.3 ug/Kg	13.3U ug/Kg
PG-SMA2-1-PEMD-151110-ADL (10X)	Naphthalene	18.5 ug/Kg	18.5U ug/Kg
PG-SMA2-2-PEMD-151110-A	Naphthalene	5.47 ug/Kg	5.47U ug/Kg

VI. Field Blanks

Sample PG-TB-PEMD-151110 was identified as a trip blank. No contaminants were found with the following exceptions:

Blank ID	Compound	Concentration (ug/Kg)
PG-TB-PEMD-151110	Naphthalene	19.9
	2-Methylnaphthalene	7.28
	Acenaphthene	1.24
	Fluorene	1.48
	Phenanthrene	3.44
	Anthracene	2.40
	Fluoranthene	4.17
	Pyrene	5.21

Sample PG-FB-PEMD-151110 was identified as a field blank. No contaminants were found with the following exceptions:

Blank ID	Compound	Concentration (ug/Kg)
PG-FB-PEMD-151110	Naphthalene	41.9
	2-Methylnaphthalene	58.7
	Acenaphthylene	1.61
	Acenaphthene	48.4
	Fluorene	23.6
	Phenanthrene	32.1
	Anthracene	1.71
	Fluoranthene	12.6
	Pyrene	7.47

VII. Surrogates

Surrogates were added to all samples as required by the method. Surrogate recoveries (%R) were not within QC limits for sample PG-SMA2-5-PEMD-151109-A. Using professional judgment, no data were qualified when one surrogate %R was outside the QC limits and the %R was greater than or equal to 10%.

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	Flag	A or P
LCS/D 111815 (All samples in SDG AQJ9)	Naphthalene	47.8 (50-150)	36.2 (50-150)	J (all detects) UJ (all non-detects)	P
	2-Methylnaphthalene	44.5 (50-150)	37.1 (50-150)		
	Acenaphthylene	45.1 (50-150)	35.0 (50-150)		
	Acenaphthene	44.5 (50-150)	33.8 (50-150)		
	Fluorene	-	40.4 (50-150)		
	Phenanthrene	-	49.6 (50-150)		
	Anthracene	-	41.2 (50-150)		
	Fluoranthene	-	49.6 (50-150)		
	Benzo(a)anthracene	-	48.7 (50-150)		
	Chrysene	-	44.5 (50-150)		
	Benzo(b)fluoranthene	-	47.2 (50-150)		
	Benzo(k)fluoranthene	-	43.9 (50-150)		
	Benzo(a)pyrene	47.5 (50-150)	39.8 (50-150)		
	Indeno(1,2,3-cd)pyrene	-	46.0 (50-150)		
	Dibenzo(a,h)anthracene	-	47.2 (50-150)		
	Benzo(g,h,i)perylene	-	44.8 (50-150)		
	Perylene	24.1 (50-150)	23.5 (50-150)		
	Benzo(e)pyrene	48.1 (50-150)	40.9 (50-150)		
	Total Benzofluoranthenes	-	43.9 (50-150)		

Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

Samples PG-SMA2-3-PEMD-151110-A and PG-SMA2-3-PEMD-151110-B and samples PG-SMA2-3-PEMD-151110-ADL and PG-SMA2-3-PEMD-151110-BDL were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	PG-SMA2-3-PEMD-151110-A	PG-SMA2-3-PEMD-151110-B	
Naphthalene	10.8	9.72	11
2-Methylnaphthalene	5.79	7.41	25
Acenaphthylene	1.29	1.75	30
Acenaphthene	13.2	67.5	135
Fluorene	19.1	63.2	107
Anthracene	24.3	34.2	34
Benzo(a)anthracene	32.4	15.8	69
Chrysene	28.6	14.1	68
Benzo(b)fluoranthene	9.23	3.87	82
Benzo(k)fluoranthene	4.10	1.52	92
Benzo(a)pyrene	7.07	1.86	117
Indeno(1,2,3-cd)pyrene	1.35	1.12U	200
Benzo(g,h,i)perylene	1.48	1.12U	200
Perylene	1.75	1.12U	200
Benzo(e)pyrene	5.71	2.43	81
Total Benzofluoranthene	17.8	7.15	85

Compound	Concentration (ug/Kg)		RPD
	PG-SMA2-3-PEMD-151110-ADL	PG-SMA2-3-PEMD-151110-BDL	
Phenanthrene	204	364	56
Fluoranthene	353	332	6

Compound	Concentration (ug/Kg)		RPD
	PG-SMA2-3-PEMD-151110-ADL	PG-SMA2-3-PEMD-151110-B	
Pyrene	198	110	57

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
PG-SMA2-4-PEMD-151109-A PG-SMA2-3-PEMD-151110-B PG-SMA2-2-PEMD-151110-A	Phenanthrene Fluoranthene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects)	A
PG-SMA2-3-PEMD-151110-A	Phenanthrene Fluoranthene Pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects) J (all detects)	A
PG-SMA2-1-PEMD-151110-A	Fluoranthene Pyrene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects)	A

Raw data were not reviewed for Level III validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

XIV. System Performance

Raw data were not reviewed for Level III validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

In the case where more than one result was reported for an individual sample, the least technically acceptable results were deemed unusable as follows:

Sample	Compound	Flag	A or P
PG-SMA2-4-PEMD-151109-A PG-SMA2-3-PEMD-151110-B PG-SMA2-2-PEMD-151110-A	Phenanthrene Fluoranthene	R	A
PG-SMA2-4-PEMD-151109-ADL PG-SMA2-3-PEMD-151110-BDL PG-SMA2-2-PEMD-151110-ADL	All TCL compounds except Phenanthrene Fluoranthene	R	A
PG-SMA2-3-PEMD-151110-A	Phenanthrene Fluoranthene Pyrene	R	A
PG-SMA2-3-PEMD-151110-ADL	All TCL compounds except Phenanthrene Fluoranthene Pyrene	R	A
PG-SMA2-1-PEMD-151110-A	Fluoranthene Pyrene	R	A
PG-SMA2-1-PEMD-151110-ADL	All TCL compounds except Fluoranthene Pyrene	R	A

Due to LCS/LCSD %R, data were qualified as estimated in sixteen samples.

Due to laboratory blank contamination, data were qualified as not detected in five samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

**Port Gamble
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG AQJ9**

Sample	Compound	Flag	A or P	Reason
PG-GP-1-PEMD-151109-A PG-PJ-1-PEMD-151109-A PG-WS-1-PEMD-151109-A PG-SMA2-5-PEMD-151109-A PG-SMA2-4-PEMD-151109-A PG-SMA2-4-PEMD-151109-ADL PG-SMA2-3-PEMD-151110-A PG-SMA2-3-PEMD-151110-ADL PG-SMA2-3-PEMD-151110-B PG-SMA2-3-PEMD-151110-BDL PG-SMA2-2-PEMD-151110-A PG-SMA2-2-PEMD-151110-ADL PG-SMA2-1-PEMD-151110-A PG-SMA2-1-PEMD-151110-ADL PG-FB-PEMD-151110 PG-TB-PEMD-151110	Naphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene Perylene Benzo(e)pyrene Total Benzofluoranthenes	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R)
PG-SMA2-4-PEMD-151109-A PG-SMA2-3-PEMD-151110-B PG-SMA2-2-PEMD-151110-A	Phenanthrene Fluoranthene	R	A	Overall assessment of data
PG-SMA2-4-PEMD-151109-ADL PG-SMA2-3-PEMD-151110-BDL PG-SMA2-2-PEMD-151110-ADL	All TCL compounds except Phenanthrene Fluoranthene	R	A	Overall assessment of data
PG-SMA2-3-PEMD-151110-A	Phenanthrene Fluoranthene Pyrene	R	A	Overall assessment of data
PG-SMA2-3-PEMD-151110-ADL	All TCL compounds except Phenanthrene Fluoranthene Pyrene	R	A	Overall assessment of data
PG-SMA2-1-PEMD-151110-A	Fluoranthene Pyrene	R	A	Overall assessment of data
PG-SMA2-1-PEMD-151110-ADL	All TCL compounds except Fluoranthene Pyrene	R	A	Overall assessment of data

**Port Gamble
 Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification
 Summary - SDG AQJ9**

Sample	Compound	Modified Final Concentration	A or P
PG-SMA2-4-PEMD-151109-ADL (10X)	Naphthalene	22.6U ug/Kg	A
PG-SMA2-3-PEMD-151110-ADL (10X)	Naphthalene	14.3U ug/Kg	A
PG-SMA2-3-PEMD-151110-BDL (10X)	Naphthalene	13.3U ug/Kg	A
PG-SMA2-1-PEMD-151110-ADL (10X)	Naphthalene	18.5U ug/Kg	A
PG-SMA2-2-PEMD-151110-A	Naphthalene	5.47U ug/Kg	A

LDC #: 35625A2b

VALIDATION COMPLETENESS WORKSHEET

SDG #: AQJ9

Stage 2B

Laboratory: Analytical Resources, Inc.

Date: 12/31/15

Page: 1 of 2

Reviewer: PJ

2nd Reviewer: [Signature]

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	% RSD ≤ 20 1CV ≤ 30
IV.	Continuing calibration	SW	CV ≤ 20
V.	Laboratory Blanks	SW	
VI.	Field blanks	SW	FB = 15 TB = 16
VII.	Surrogate spikes	SW	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	SW	WS 10
X.	Field duplicates	SW	D = 7, 9 8, 10
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	SW	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	SW	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinse
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

PEMD = Polyethylene Membrane Device

	Client ID	Lab ID	Matrix	Date
1	PG-GP-1-PEMD-151109-A	AQJ9A	Tissue PEMD	11/09/15
2	PG-PJ-1-PEMD-151109-A	AQJ9C	Tissue	11/09/15
3	PG-WS-1-PEMD-151109-A	AQJ9E	Tissue	11/09/15
4	PG-SMA2-5-PEMD-151109-A	AQJ9G	Tissue	11/09/15
5	PG-SMA2-4-PEMD-151109-A	AQJ9I	Tissue	11/09/15
6	PG-SMA2-4-PEMD-151109-ADL	AQJ9IDL	Tissue	11/09/15
7	PG-SMA2-3-PEMD-151110-A D	AQJ9K	Tissue	11/10/15
8	PG-SMA2-3-PEMD-151110-ADL D ₁	AQJ9KDL	Tissue	11/10/15
9	PG-SMA2-3-PEMD-151110-B D	AQJ9L	Tissue	11/10/15
10	PG-SMA2-3-PEMD-151110-BDL D ₁	AQJ9LDL	Tissue	11/10/15
11	PG-SMA2-2-PEMD-151110-A	AQJ9M	Tissue	11/10/15
12	PG-SMA2-2-PEMD-151110-ADL	AQJ9MDL	Tissue	11/10/15
13	PG-SMA2-1-PEMD-151110-A	AQJ9O	Tissue	11/10/15

LDC #: 35625A2b **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: AQJ9 Stage 2B
 Laboratory: Analytical Resources, Inc.

Date: 12/31/15
 Page: 2 of 2
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270D-SIM)

	Client ID	Lab ID	Matrix	Date
14	PG-SMA2-1-PEMD-151110-ADL	AQJ9ODL	Tissue PEMD	11/10/15
15	PG-FB-PEMD-151110	AQJ9Q	Tissue	11/10/15
16	PG-TB-PEMD-151110	AQJ9R	Tissue	11/10/15
17				
18				
19				
20				
21				

Notes:

MB - 11815				

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	AA. 2-Chloronaphthalene	AAA. Butylbenzylphthalate	AAAA. Dibenzothiophene	A1.
B. Bis (2-chloroethyl) ether	BB. 2-Nitroaniline	BBB. 3,3'-Dichlorobenzidine	BBBB. Benzo(a)fluoranthene	B1.
C. 2-Chlorophenol	CC. Dimethylphthalate	CCC. Benzo(a)anthracene	CCCC. Benzo(b)fluorene	C1.
D. 1,3-Dichlorobenzene	DD. Acenaphthylene	DDD. Chrysene	DDDD. cis/trans-Decalin	D1.
E. 1,4-Dichlorobenzene	EE. 2,6-Dinitrotoluene	EEE. Bis(2-ethylhexyl)phthalate	EEEE. Biphenyl	E1.
F. 1,2-Dichlorobenzene	FF. 3-Nitroaniline	FFF. Di-n-octylphthalate	FFFF. Retene	F1.
G. 2-Methylphenol	GG. Acenaphthene	GGG. Benzo(b)fluoranthene	GGGG. C30-Hopane	G1.
H. 2,2'-Oxybis(1-chloropropane)	HH. 2,4-Dinitrophenol	HHH. Benzo(k)fluoranthene	HHHH. 1-Methylphenanthrene	H1.
I. 4-Methylphenol	II. 4-Nitrophenol	III. Benzo(a)pyrene	IIII. 1,4-Dioxane	I1.
J. N-Nitroso-di-n-propylamine	JJ. Dibenzofuran	JJJ. Indeno(1,2,3-cd)pyrene	JJJJ. Acetophenone	J1.
K. Hexachloroethane	KK. 2,4-Dinitrotoluene	KKK. Dibenz(a,h)anthracene	KKKK. Atrazine	K1.
L. Nitrobenzene	LL. Diethylphthalate	LLL. Benzo(g,h,i)perylene	LLLL. Benzaldehyde	L1.
M. Isophorone	MM. 4-Chlorophenyl-phenyl ether	MMM. Bis(2-Chloroisopropyl)ether	MMMM. Caprolactam	M1.
N. 2-Nitrophenol	NN. Fluorene	NNN. Aniline	NNNN. 2,6-Dichlorophenol	N1.
O. 2,4-Dimethylphenol	OO. 4-Nitroaniline	OOO. N-Nitrosodimethylamine	OOOO. 2,6-Dinitrotoluene	O1.
P. Bis(2-chloroethoxy)methane	PP. 4,6-Dinitro-2-methylphenol	PPP. Benzoic Acid	PPPP. 3-Methylphenol	P1.
Q. 2,4-Dichlorophenol	QQ. N-Nitrosodiphenylamine	QQQ. Benzyl alcohol	QQQQ. 3&4 Methylphenol	Q1.
R. 1,2,4-Trichlorobenzene	RR. 4-Bromophenyl-phenylether	RRR. Pyridine	RRRR. 4-Dimethyldibenzothiophene (4MDT)	R1.
S. Naphthalene	SS. Hexachlorobenzene	SSS. Benzidine	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	S1.
T. 4-Chloroaniline	TT. Pentachlorophenol	TTT. 1-Methylnaphthalene	TTTT. 1-Methyldibenzothiophene (1MDT)	T1.
U. Hexachlorobutadiene	UU. Phenanthrene	UUU. Benzo(b)thiophene	UUUU. Total Benzofluoranthene <u>U1</u>	
V. 4-Chloro-3-methylphenol	VV. Anthracene	VVV. Benzonaphthothiophene	VVVV.	V1.
W. 2-Methylnaphthalene	WW. Carbazole	WWW. Benzo(e)pyrene	WWWW.	W1.
X. Hexachlorocyclopentadiene	XX. Di-n-butylphthalate	XXX. 2,6-Dimethylnaphthalene	XXXX.	X1.
Y. 2,4,6-Trichlorophenol	YY. Fluoranthene	YYY. 2,3,5-Trimethylnaphthalene	YYYY.	Y1.
Z. 2,4,5-Trichlorophenol	ZZ. Pyrene	ZZZ. Perylene	ZZZZ.	Z1.

LDC #: 35625A2b

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1

Reviewer: FT

2nd Reviewer: 9

METHOD: GC/MS BNA (EPA SW 846 Method 8270D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- N N/A Was a method blank analyzed for each matrix?
- N N/A Was a method blank analyzed for each concentration preparation level?
- N N/A Was a method blank associated with every sample?
- N N/A Was the blank contaminated? If yes, please see qualification below.

Blank extraction date: 11/18/15 Blank analysis date: 12/5/15

Conc. units: ug/kg Associated Samples: A 11

Compound	Blank ID								
	MB-111815	5X	6 (10x)	8 (10x)	10 (10x)	14 (10x)	11		
S	1.33	6.65	22.6 / U	14.3 / U	13.3 U	18.5 / U	5.47 / U		

Blank extraction date: _____ Blank analysis date: _____

Conc. units: _____ Associated Samples: _____

Compound	Blank ID								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 35625Adb

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: FT
2nd reviewer: [Signature]

METHOD: GC/MS PAH (EPA SW 846 Method 8270D SIM)

Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Sample: 15 (FB) Field Blank / Rinsate Blank / Rinsate (circle one)

Compound	Concentration Units / μg / kg
S	41.9
W	58.7
DD	1.61
GG	48.4
NN	23.6
UU	32.1
VV	1.71
YY	12.6
ZZ	7.47

Sample: 16 (TB) Field Blank / Trip Blank / Rinsate (circle one)

Compound	Concentration Units / μg / kg
S	19.9
W	7.28
GG	1.24
NN	1.48
UU	3.44
VV	2.40
YY	4.17
ZZ	5.21

LDC #: 35625A2b

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
 Reviewer: FT
 2nd Reviewer: g

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y/N/N/A
Y/N/N/A

Was a LCS required?

Were the LCS/LCSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	lcs/D- 111815	S	47.8 (50-150)	36.2 (50-150)	()	All	J/W/P (ND+Det)
		W	44.5 ()	37.1 ()	()		
		DD	45.1 ()	35.0 ()	()		
		GG	44.5 (✓)	33.8 ()	()		
		NN	()	40.4 ()	()		
		UU	()	49.6 ()	()		
		VV	()	41.2 ()	()		
		YY	()	49.6 ()	()		
		CCC	()	48.7 ()	()		
		DDD	()	44.5 ()	()		
		GGG	()	47.2 ()	()		
		HHH	()	43.9 ()	()		
		III	47.5 (✓)	39.8 ()	()		
		JJJ	()	46.0 ()	()		
		KKK	()	47.2 ()	()		
		LLL	()	44.8 ()	()		
		ZZZ	24.1 ()	23.5 ()	()		
		WWW	48.1 (✓)	40.9 (✓)	()		
		Total Benzo fluoranthenes	()	43.9 ()	()	✓	↓
			()	()	()		
			()	()	()		
			()	()	()		
			()	()	()		
			()	()	()		
			()	()	()		

LDC#: 35625A2b

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: FT
2nd Reviewer: OR

METHOD: GCMS PAH (EPA SW 846 Method 8270D-SIM)

Compound	Concentration (ug/Kg)		RPD
	7	9	
S	10.8	9.72	11
W	5.79	7.41	25
DD	1.29	1.75	30
GG	13.2	67.5	135
NN	19.1	63.2	107
VV	24.3	34.2	34
CCC	32.4	15.8	69
DDD	28.6	14.1	68
GGG	9.23	3.87	82
HHH	4.10	1.52	92
III	7.07	1.86	117
JJJ	1.35	1.12U	200
LLL	1.48	1.12U	200
ZZZ	1.75	1.12U	200
WWW	5.71	2.43	81
UUUU	17.8	7.15	85

Compound	Concentration (ug/Kg)		RPD
	8	10	
UU	204	364	56
YY	353	332	6

Compound	Concentration (ug/Kg)		RPD
	8	9	
ZZ	198	110	57

LDC #: 35625 A2b

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
 Reviewer: FT
 2nd Reviewer: ca

METHOD: GC/MS BNA (EPA SW 846 Method 8270D)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
 All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

Y N N/A Was the overall quality and usability of the data acceptable?

#	Sample ID	Compound	Finding	Qualifications
	5, 9, 11	UU, YY	x'd cal Range	R/A
	6, 10, 12	all except UU, YY	diluted	R/A
	7	UU, YY, ZZ	x'd cal Range	R/A
	8	all except UU, YY, ZZ	diluted	R/A
	13	YY, ZZ	x'd cal Range	R/A
	14	all except YY, ZZ	diluted	R/A

Comments: _____

The LDC job number listed above was entered by (4).

	EDD Process	Y/N	Init	Comments/Action
I.	EDD Completeness	-		
Ia.	- All methods present?	✓	(W)	
Ib.	- All samples present/match report?	✓	(W)	
Ic.	- All reported analytes present?	✓	(W)	
Id.	-10% verification of EDD?	✓	(W)	
II.	EDD Preparation/Entry	-		
IIa.	- QC Level applied? (EPAS _{Stage2B} or EPAS _{Stage4})	✓	(N)	
IIb.	- Laboratory EMPC qualified results qualified (J with reason code 23)?	NA	(C)	
III.	Reasonableness Checks	-		
IIIa.	- Do all qualified ND results have ND qualifier (i.e. UJ)?	✓	(W)	
IIIb.	- Do all qualified detect results have detect qualifier (i.e. J)?	✓	(U)	
IIIc.	- If reason codes used, do all qualified results have reason code field populated, and vice versa?	✓	(W)	
IIId.	- Do blank concentrations in report match EDD, where data was qualified due to blank?	NA	(Q)	
IIIe.	- Were any results reported above calibration range? If so, were results qualified appropriately?	NA	(Q)	
IIIf.	- Are all results marked reportable "Yes" unless rejected for overall assessment in the data validation report?	✓	(Q)	
IIIg.	-Are there any lab "R" qualified data? / Are the entry columns blank for these results?	NA	(Q)	
IIIh.	- Is the detect flag set to "N" for all "U" qualified blank results?	NA	(Q)	

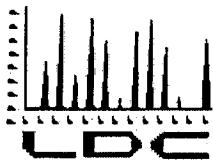
Notes: *see readme

The attached zipped file contains two files:

<u>File</u>	<u>Format</u>	<u>Description</u>
1) Readme_PortGamble_011916.doc	MS Word 2003	A "Readme" file (this document).
2) LDC35625_AQJ9_VEDD_20160107.xls	MS Excel 2007	A spreadsheet for the following SDG(s): AQJ9 35625A

No discrepancies were observed between the hardcopy data packages and the electronic data deliverables during EDD population of validation qualifiers. A 100% verification of the EDD was not performed.

Please contact Christina Rink at (760) 827-1100 if you have any questions regarding this electronic data submittal.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Anchor Environmental, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101
ATTN: Ms. Cindy Fields

February 19, 2016

SUBJECT: Port Gamble, Shellfish Monitoring, Data Validation

Dear Ms. Fields,

Enclosed is the final validation report for the fractions listed below. This SDG was received on February 1, 2016. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #35818:

SDG # Fraction

AUA2 Polynuclear Aromatic Hydrocarbons, Lipids

The data validation was performed under Stage 2B guidelines. The analyses were validated using the following documents, as applicable to each method:

- Shellfish Monitoring Plan for Port Gamble Bay Cleanup Project, May 2015
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA Contract Laboratory National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink
Project Manager/Chemist

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Port Gamble, Shellfish Monitoring
LDC Report Date: February 10, 2016
Parameters: Polynuclear Aromatic Hydrocarbons
Validation Level: Stage 2B
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): AUA2

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
13EB_ME-MTW01Z	AUA2A	Tissue	01/07/13
13EB_ME-MTW01ZDL	AUA2A	Tissue	01/07/13
13CPS_DB-MTW01Z	AUA2B	Tissue	01/10/13
13NPS_CIAR2-MTW01Z	AUA2C	Tissue	01/14/13

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Shellfish Monitoring Plan for Port Gamble Bay Cleanup Project (May 2015) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Superfund Organic Methods Data Review (June 2008). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Polynuclear Aromatic Hydrocarbons (PAHs) by Environmental Protection Agency (EPA) SW 846 Method 8270D in Selected Ion Monitoring (SIM) mode

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

The chain-of-custodies were not provided and therefore were not reviewed. Per client, samples were stored frozen prior to receipt at the laboratory and shipped for overnight delivery.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
01/22/16	Benzo(k)fluoranthene	20.8	13EB_ME-MTW01Z 13CPS_DB-MTW01Z 13NPS_CIAR2-MTW01Z	Benzo(k)fluoranthene Total Benzofluoroanthenes	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS-011416	Acenaphthylene	49.2 (50-150)	All samples in SDG AUA2	J (all detects) UJ (all non-detects)	P

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
13EB_ME-MTW01Z	Fluoranthene	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

Raw data were not reviewed for Stage 2B validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Stage 2B validation.

XIV. System Performance

Raw data were not reviewed for Stage 2B validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

In the case where more than one result was reported for an individual sample, the least technically acceptable results were deemed unusable as follows:

Sample	Compound	Flag	A or P
13EB_ME-MTW01Z	Fluoranthene	R	A
13EB_ME-MTW01ZDL	All TCL compounds except Fluoranthene	R	A

Due to continuing calibration %D and LCS %R, data were qualified as estimated in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

**Port Gamble, Shellfish Monitoring
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG AUA2**

Sample	Compound	Flag	A or P	Reason
13EB_ME-MTW01Z 13CPS_DB-MTW01Z 13NPS_CJAR2-MTW01Z	Benzo(k)fluoranthene Total Benzofluoroanthenes	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
13EB_ME-MTW01Z 13CPS_DB-MTW01Z 13NPS_CJAR2-MTW01Z	Acenaphthylene	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R)
13EB_ME-MTW01Z	Fluoranthene	R	A	Overall assessment of data
13EB_ME-MTW01ZDL	All TCL compounds except Fluoranthene	R	A	Overall assessment of data

**Port Gamble, Shellfish Monitoring
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification
Summary - SDG AUA2**

No Sample Data Qualified in this SDG

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	SW, Δ	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A, Δ	% PSD ≤ 20 ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	Δ	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	SW	CS
X.	Field duplicates	N	
XI.	Internal standards	Δ	
XII.	Compound quantitation RL/LOQ/LODs	SW	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	Δ	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
 N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
 SW = See worksheet FB = Field blank EB = Equipment blank

	Client ID	Lab ID	Matrix	Date
1	13EB_ME-MTW01Z	AUA2A	Tissue	01/07/13
2	13EB_ME-MTW01ZDL	AUA2A	Tissue	01/07/13
3	13CPS_DB-MTW01Z	AUA2B	Tissue	01/10/13
4	13NPS_CIAR2-MTW01Z	AUA2C	Tissue	01/14/13
5				
6				
7				
8				

Notes:

MB-011416				

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	T. 4-Chloroaniline	MM. 4-Chlorophenyl-phenyl ether	FFF. Di-n-octylphthalate	YYY. 2,3,5-Trimethylnaphthalene
B. Bis (2-chloroethyl) ether	U. Hexachlorobutadiene	NN. Fluorene	GGG. Benzo(b)fluoranthene	ZZZ. Perylene
C. 2-Chlorophenol	V. 4-Chloro-3-methylphenol	OO. 4-Nitroaniline	HHH. Benzo(k)fluoranthene	AAAA. Dibenzothiophene
D. 1,3-Dichlorobenzene	W. 2-Methylnaphthalene	PP. 4,6-Dinitro-2-methylphenol	III. Benzo(a)pyrene	BBBB. Benzo(a)fluoranthene
E. 1,4-Dichlorobenzene	X. Hexachlorocyclopentadiene	QQ. N-Nitrosodiphenylamine	JJJ. Indeno(1,2,3-cd)pyrene	CCCC. Benzo(b)fluorene
F. 1,2-Dichlorobenzene	Y. 2,4,6-Trichlorophenol	RR. 4-Bromophenyl-phenylether	KKK. Dibenz(a,h)anthracene	DDDD. cis/trans-Decalin
G. 2-Methylphenol	Z. 2,4,5-Trichlorophenol	SS. Hexachlorobenzene	LLL. Benzo(g,h,i)perylene	EEEE. Biphenyl
H. 2,2'-Oxybis(1-chloropropane)	AA. 2-Chloronaphthalene	TT. Pentachlorophenol	MMM. Bis(2-Chloroisopropyl)ether	FFFF. Retene
I. 4-Methylphenol	BB. 2-Nitroaniline	UU. Phenanthrene	NNN. Aniline	GGGG. C30-Hopane
J. N-Nitroso-di-n-propylamine	CC. Dimethylphthalate	VV. Anthracene	OOO. N-Nitrosodimethylamine	HHHH. 1-Methylphenanthrene
K. Hexachloroethane	DD. Acenaphthylene	WW. Carbazole	PPP. Benzoic Acid	IIII. 1,4-Dioxane
L. Nitrobenzene	EE. 2,6-Dinitrotoluene	XX. Di-n-butylphthalate	QQQ. Benzyl alcohol	JJJJ. Acetophenone
M. Isophorone	FF. 3-Nitroaniline	YY. Fluoranthene	RRR. Pyridine	KKKK. Atrazine
N. 2-Nitrophenol	GG. Acenaphthene	ZZ. Pyrene	SSS. Benzidine	LLLL. Benzaldehyde
O. 2,4-Dimethylphenol	HH. 2,4-Dinitrophenol	AAA. Butylbenzylphthalate	TTT. 1-Methylnaphthalene	MMMM. Caprolactam
P. Bis(2-chloroethoxy)methane	II. 4-Nitrophenol	BBB. 3,3'-Dichlorobenzidine	UUU. Benzo(b)thiophene	NNNN.
Q. 2,4-Dichlorophenol	JJ. Dibenzofuran	CCC. Benzo(a)anthracene	VVV. Benzonaphthothiophene	OOOO.
R. 1,2,4-Trichlorobenzene	KK. 2,4-Dinitrotoluene	DDD. Chrysene	WWW. Benzo(e)pyrene	PPPP.
S. Naphthalene	LL. Diethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	XXX. 2,6-Dimethylnaphthalene	QQQQ.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Port Gamble, Shellfish Monitoring

LDC Report Date: February 4, 2016

Parameters: Lipids

Validation Level: Stage 2B

Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): AUA2

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
13EB_ME-MTW01Z	AUA2A	Tissue	01/07/13
13CPS_DB-MTW01Z	AUA2B	Tissue	01/10/13
13NPS_CIAR2-MTW01Z	AUA2C	Tissue	01/14/13

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Shellfish Monitoring Plan for Port Gamble Bay Cleanup Project (May 2015) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Superfund Organic Methods Data Review (June 2008). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Lipids by Bligh and Dyer Method

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

The chain-of-custodies were not provided and therefore were not reviewed. Per client, samples were stored frozen prior to receipt at the laboratory and shipped for overnight delivery.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were not required by the method.

VII. Duplicates

Duplicate (DUP) sample analysis was not required by the method.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were not required by the method.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

Raw data were not reviewed for Stage 2B validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

**Port Gamble, Shellfish Monitoring
Lipids - Data Qualification Summary - SDG AUA2**

No Sample Data Qualified in this SDG

**Port Gamble, Shellfish Monitoring
Lipids - Laboratory Blank Data Qualification Summary - SDG AUA2**

No Sample Data Qualified in this SDG

LDC #: 35818A6

VALIDATION COMPLETENESS WORKSHEET

Date: 2/11/16

SDG #: AUA2

Stage 2B

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: G

2nd Reviewer: APC

METHOD: (Analyte) Lipids (Method Bligh & Dyer)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	not required
VII.	Duplicate sample analysis	N	CS
VIII.	Laboratory control samples	N	not required
IX.	Field duplicates	N	
X.	Sample result verification	N	
XI	Overall assessment of data	A	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

SB=Source blank
 OTHER:

	Client ID	Lab ID	Matrix	Date
1	13EB_ME-MTW01Z	AUA2A	Tissue	01/07/13
2	13CPS_DB-MTW01Z	AUA2B	Tissue	01/10/13
3	13NPS_CJAR2-MTW01Z	AUA2C	Tissue	01/14/13
4				
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6				
7				
8				
9				
10				
11				

Notes: Form - no CoC provided

LDC #: 35818

EDD POPULATION COMPLETENESS WORKSHEET

Anchor

Date: 2-18-16

Page: 1 of 1

2nd Reviewer: [Signature]

The LDC job number listed above was entered by [Signature]

	EDD Process	Y/N	Init	Comments/Action
I.	EDD Completeness	-		
Ia.	- All methods present?	✓	(U)	
Ib.	- All samples present/match report?	✓	(U)	
Ic.	- All reported analytes present?	✓	(U)	
Id.	-10% verification of EDD?	✓	(U)	
II.	EDD Preparation/Entry	-		
IIa.	- QC Level applied? (EPAS Stage 2B or EPAS Stage 4)	✓	(U)	
IIb.	- Laboratory EMPC qualified results qualified (J with reason code 23)?	N/A	(U)	
III.	Reasonableness Checks	-		
IIIa.	- Do all qualified ND results have ND qualifier (i.e. UJ)?	✓	(U)	
IIIb.	- Do all qualified detect results have detect qualifier (i.e. J)?	✓	(U)	
IIIc.	- If reason codes used, do all qualified results have reason code field populated, and vice versa?	✓	(U)	
IIId.	- Do blank concentrations in report match EDD, where data was qualified due to blank?	N/A	(U)	
IIIe.	- Were any results reported above calibration range? If so, were results qualified appropriately?	N/A	(U)	
IIIf.	- Are all results marked reportable "Yes" unless rejected for overall assessment in the data validation report?	✓	(U)	
IIIg.	-Are there any lab "R" qualified data? / Are the entry columns blank for these results?	N/A	(U)	
IIIh.	- Is the detect flag set to "N" for all "U" qualified blank results?	✓	(U)	

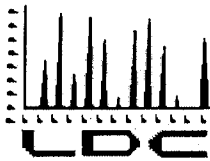
Notes: *see readme

The attached zipped file contains two files:

<u>File</u>	<u>Format</u>	<u>Description</u>
1) Readme_Port Gamble_021816.doc	MS Word 2003	A "Readme" file (this document).
2) LDC35818_AUA2_VEDD_20160214.xlsx	MS Excel 2007	A spreadsheet for the following SDG(s): AUA2 35818A

No discrepancies were observed between the hardcopy data packages and the electronic data deliverables during EDD population of validation qualifiers. A 100% verification of the EDD was not performed.

Please contact Christina Rink at (760) 827-1100 if you have any questions regarding this electronic data submittal.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Anchor Environmental, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101
ATTN: Ms. Cindy Fields

February 26, 2016

SUBJECT: Port Gamble, Shellfish Monitoring, Data Validation

Dear Ms. Fields,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on February 8, 2016. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #35845:

<u>SDG #</u>	<u>Fraction</u>
APR4, ATSO AVB4/AVB5	Polynuclear Aromatic Hydrocarbons, Cadmium, Polychlorinated Dioxins/Dibenzofurans, Wet Chemistry

The data validation was performed under Stage 2B guidelines. The analyses were validated using the following documents, as applicable to each method:

- Shellfish Monitoring Plan for Port Gamble Bay Cleanup Project, May 2015
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA Contract Laboratory National Functional Guidelines for Inorganic Superfund Data Review, January 2010
- USEPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins and Chlorinated Dibenzofurans Data Review, September 2011
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink
Project Manager/Chemist

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Port Gamble, Shellfish Monitoring
LDC Report Date: February 19, 2016
Parameters: Polynuclear Aromatic Hydrocarbons
Validation Level: Stage 2B
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): APR4

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-T0-MUS-COC-151030	APR4A	Tissue	10/30/15

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Shellfish Monitoring Plan for Port Gamble Bay Cleanup Project (May 2015) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Superfund Organic Methods Data Review (June 2008). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Polynuclear Aromatic Hydrocarbons (PAHs) by Environmental Protection Agency (EPA) SW 846 Method 8270D in Selected Ion Monitoring (SIM) mode

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
01/22/16	Benzo(k)fluoranthene	20.8	All samples in SDG APR4	Benzo(k)fluoranthene Total Benzofluoranthenes	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were not within QC limits. No data were qualified since there were no associated samples in this SDG. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS-011416	Acenaphthylene	49.2 (50-150)	All samples in SDG APR4	UJ (all non-detects)	P

Standard reference materials (SRM) were analyzed as required by the method. The results were within QC limits with the following exceptions:

SRM ID	Compound	Concentration (Limits)	Associated Samples	Flag	A or P
SRM1974C 011416	2-Methylnaphthalene Fluorene Fluoranthene Benzo(a)anthracene Chrysene Perylene	0.59 ug/Kg (0.750-2.25) 0.98 ug/Kg (1.16-1.73) 22.4 ug/Kg (22.7-68.0) 2.27 ug/Kg (2.84-8.54) 8.90 ug/Kg (9.60-28.8) 0.50U ug/Kg (0.280-0.840)	All samples in SDG APR4	J (all detects) UJ (all non-detects)	A
SRM1974C 011416	Dibenz(a,h)anthracene	0.18 ug/Kg (0.050-0.150)	All samples in SDG APR4	NA	-

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

Raw data were not reviewed for Stage 2B validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Stage 2B validation.

XIV. System Performance

Raw data were not reviewed for Stage 2B validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to continuing calibration %D, LCS %R, and SRM concentration, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

**Port Gamble, Shellfish Monitoring
 Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG APR4**

Sample	Compound	Flag	A or P	Reason
PG-T0-MUS-COC-151030	Benzo(k)fluoranthene Total Benzofluoranthenes	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
PG-T0-MUS-COC-151030	Acenaphthylene	UJ (all non-detects)	P	Laboratory control samples (%R)
PG-T0-MUS-COC-151030	2-Methylnaphthalene Fluorene Fluoranthene Benzo(a)anthracene Chrysene Perylene	J (all detects) UJ (all non-detects)	A	Standard reference material (concentration)

**Port Gamble, Shellfish Monitoring
 Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification
 Summary - SDG APR4**

No Sample Data Qualified in this SDG

LDC #: 35845A2b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/10/16

SDG #: APR4

Stage 2B

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / Δ	
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration/ICV	A / A	% RSD ≤ 20 ICV ≤ 30
IV.	Continuing calibration	SW	CCV ≤ 20
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	% R
VIII.	Matrix spike/Matrix spike duplicates	SW	↔ ATSOBMS/D (No Assoc sample)
IX.	Laboratory control samples /SRM	SW/SW	LCS, SRM
X.	Field duplicates	N	
XI.	Internal standards	Δ	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	Δ	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	PG-T0-MUS-COC-151030	APR4A	Tissue	10/30/15
2				
3				
4				
5				
6				
7				
8				

Notes:

MB - 011416				

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	T. 4-Chloroaniline	MM. 4-Chlorophenyl-phenyl ether	FFF. Di-n-octylphthalate	YYY. 2,3,5-Trimethylnaphthalene
B. Bis (2-chloroethyl) ether	U. Hexachlorobutadiene	NN. Fluorene	GGG. Benzo(b)fluoranthene	ZZZ. Perylene
C. 2-Chlorophenol	V. 4-Chloro-3-methylphenol	OO. 4-Nitroaniline	HHH. Benzo(k)fluoranthene	AAAA. Dibenzothiophene
D. 1,3-Dichlorobenzene	W. 2-Methylnaphthalene	PP. 4,6-Dinitro-2-methylphenol	III. Benzo(a)pyrene	BBBB. Benzo(a)fluoranthene
E. 1,4-Dichlorobenzene	X. Hexachlorocyclopentadiene	QQ. N-Nitrosodiphenylamine	JJJ. Indeno(1,2,3-cd)pyrene	CCCC. Benzo(b)fluorene
F. 1,2-Dichlorobenzene	Y. 2,4,6-Trichlorophenol	RR. 4-Bromophenyl-phenylether	KKK. Dibenz(a,h)anthracene	DDDD. cis/trans-Decalin
G. 2-Methylphenol	Z. 2,4,5-Trichlorophenol	SS. Hexachlorobenzene	LLL. Benzo(g,h,i)perylene	EEEE. Biphenyl
H. 2,2'-Oxybis(1-chloropropane)	AA. 2-Chloronaphthalene	TT. Pentachlorophenol	MMM. Bis(2-Chloroisopropyl)ether	FFFF. Retene
I. 4-Methylphenol	BB. 2-Nitroaniline	UU. Phenanthrene	NNN. Aniline	GGGG. C30-Hopane
J. N-Nitroso-di-n-propylamine	CC. Dimethylphthalate	VV. Anthracene	OOO. N-Nitrosodimethylamine	HHHH. 1-Methylphenanthrene
K. Hexachloroethane	DD. Acenaphthylene	WW. Carbazole	PPP. Benzoic Acid	IIII. 1,4-Dioxane
L. Nitrobenzene	EE. 2,6-Dinitrotoluene	XX. Di-n-butylphthalate	QQQ. Benzyl alcohol	JJJJ. Acetophenone
M. Isophorone	FF. 3-Nitroaniline	YY. Fluoranthene	RRR. Pyridine	KKKK. Atrazine
N. 2-Nitrophenol	GG. Acenaphthene	ZZ. Pyrene	SSS. Benzidine	LLLL. Benzaldehyde
O. 2,4-Dimethylphenol	HH. 2,4-Dinitrophenol	AAA. Butylbenzylphthalate	TTT. 1-Methylnaphthalene	MMMM. Caprolactam
P. Bis(2-chloroethoxy)methane	II. 4-Nitrophenol	BBB. 3,3'-Dichlorobenzidine	UUU. Benzo(b)thiophene	NNNN.
Q. 2,4-Dichlorophenol	JJ. Dibenzofuran	CCC. Benzo(a)anthracene	VVV. Benzonaphthothiophene	OOOO.
R. 1,2,4-Trichlorobenzene	KK. 2,4-Dinitrotoluene	DDD. Chrysene	WWW. Benzo(e)pyrene	PPPP.
S. Naphthalene	LL. Diethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	XXX. 2,6-Dimethylnaphthalene	QQQQ.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Port Gamble, Shellfish Monitoring

LDC Report Date: February 19, 2016

Parameters: Cadmium

Validation Level: Stage 2B

Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): APR4

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-T0-MUS-COC-151030	APR4A	Tissue	10/30/15
PG-T0-MUS-COC-151030MS	APR4AMS	Tissue	10/30/15
PG-T0-MUS-COC-151030DUP	APR4ADUP	Tissue	10/30/15

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Shellfish Monitoring Plan for Port Gamble Bay Cleanup Project (May 2015) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Inorganic Superfund Data Review (January 2010). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Cadmium by Environmental Protection Agency (EPA) SW 846 Method 6010C

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Instrument Calibration

Initial and continuing calibrations were performed as required by the methods.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

III. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Serial Dilution

Serial dilution was not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Sample Result Verification

Raw data were not reviewed for Stage 2B validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

**Port Gamble, Shellfish Monitoring
Cadmium - Data Qualification Summary - SDG APR4**

No Sample Data Qualified in this SDG

**Port Gamble, Shellfish Monitoring
Cadmium - Laboratory Blank Data Qualification Summary - SDG APR4**

No Sample Data Qualified in this SDG

LDC #: 35845A4b

VALIDATION COMPLETENESS WORKSHEET

Date: 2-16-16

SDG #: APR4

Stage 2B

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: MG

Cadmium

6010C

mg

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/7470A/7471A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	A	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	A	MS
VII.	Duplicate sample analysis	A	DUP
VIII.	Serial Dilution	N	not performed
IX.	Laboratory control samples	A	LCS
X.	Field Duplicates	N	
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	PG-T0-MUS-COC-151030	APR4A	Tissue	10/30/15
2	PG-T0-MUS-COC-151030MS	APR4AMS	Tissue	10/30/15
3	PG-T0-MUS-COC-151030DUP	APR4ADUP	Tissue	10/30/15
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14	PBS			

Notes: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Port Gamble, Shellfish Monitoring

LDC Report Date: February 19, 2016

Parameters: Percent Lipids

Validation Level: Stage 2B

Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): APR4

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-T0-MUS-COC-151030	APR4A	Tissue	10/30/15

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Shellfish Monitoring Plan for Port Gamble Bay Cleanup Project (May 2015) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Inorganic Superfund Data Review (January 2010). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Percent Lipids by Bligh and Dyer Method

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Percent lipids	0.0700 mg/L	All samples in SDG APR4

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were not required by the method.

VII. Duplicate Sample Analysis/Triplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

Triplicate (TRP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) analyses were not required by the method.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

Raw data were not reviewed for Stage 2B validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

**Port Gamble, Shellfish Monitoring
Percent Lipids - Data Qualification Summary - SDG APR4**

No Sample Data Qualified in this SDG

**Port Gamble, Shellfish Monitoring
Percent Lipids - Laboratory Blank Data Qualification Summary - SDG APR4**

No Sample Data Qualified in this SDG

LDC #: 35845A6

VALIDATION COMPLETENESS WORKSHEET

Date: 2-16-16

SDG #: APR4

Stage 2B

Page: 1 of 1

Laboratory: Analytical Resources, Inc.

Reviewer: MG

2nd Reviewer: a

METHOD: (Analyte) Percent Lipids (Method Bligh & Dyer)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	SW	PB only
V	Field blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	not required
VII.	Duplicate sample analysis	A	Trip (SDG: ATSO)
VIII.	Laboratory control samples	N	not required
IX.	Field duplicates	N	
X.	Sample result verification	N	
XI	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	PG-T0-MUS-COC-151030	APR4A	Tissue	10/30/15
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15	PBS			

Notes:

VALIDATION FINDINGS WORKSHEET
Blanks

METHOD: Inorganics, Method Bligh & Dyer

Conc. units: mg/L

Associated Samples: all (>5x)

Analyte	Blank ID	Blank ID	Blank Action Limit																
	PB	ICB/CCB (mg/L)		No Qual.															
% Lipids	0.0700		0.3500																

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Port Gamble, Shellfish Monitoring
LDC Report Date: February 22, 2016
Parameters: Polychlorinated Dioxins/Dibenzofurans
Validation Level: Stage 2B
Laboratory: Analytical Resources, Inc.
Sample Delivery Group (SDG): APR4

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-T0-MUS-COC-151030	APR4A	Tissue	10/30/15

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Shellfish Monitoring Plan for Port Gamble Bay Cleanup Project (May 2015) and the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review (September 2011). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Polychlorinated Dioxins/Dibenzofurans by Environmental Protection Agency (EPA) Method 1613B

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

- J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.
- U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered not detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
- UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.
- R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.
- NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required frequency.

Retention time windows were established for all homologues. The chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomer was less than or equal to 25%.

The static resolving power was at least 10,000 (10% valley definition).

III. Initial Calibration and Initial Calibration Verification

A five point initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were within the QC limits for unlabeled compounds and labeled compounds with the following exceptions:

Date	Compound	Concentration (Limits)	Associated Samples	Affected Compound	Flag	A or P
10/15/15	1,2,3,4,7,8-HxCDF	59.905 pg (45-56)	All samples in SDG APR4	1,2,3,4,7,8-HxCDF Total HxCDF	NA	-

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration results were within the QC limits for unlabeled compounds and labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within method and validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Extraction Date	Compound	Concentration	Associated Samples
MB-012516	01/25/16	1,2,3,7,8-PeCDF	0.0500 pg/g	All samples in SDG APR4
		1,2,3,4,6,7,8-HpCDF	0.142 pg/g	
		1,2,3,4,6,7,8-HpCDD	0.374 pg/g	
		OCDF	0.541 pg/g	
		OCDD	6.16 pg/g	
		Total PeCDD	0.0378 pg/g	
		Total HxCDD	0.124 pg/g	
		Total HpCDD	0.743 pg/g	
		Total PeCDF	0.0500 pg/g	
		Total HpCDF	0.286 pg/g	

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
PG-T0-MUS-COC-151030	1,2,3,7,8-PeCDF	0.0518 pg/g	0.0518U pg/g
	1,2,3,4,6,7,8-HpCDF	0.189 pg/g	0.189U pg/g
	1,2,3,4,6,7,8-HpCDD	0.775 pg/g	0.775U pg/g
	OCDF	0.502 pg/g	0.502U pg/g
	OCDD	7.46 pg/g	7.46U pg/g
	Total PeCDD	0.0474 pg/g	0.0474J pg/g
	Total HxCDD	0.249 pg/g	0.249J pg/g
	Total HpCDD	3.03 pg/g	3.03J pg/g
	Total HpCDF	0.446 pg/g	0.446J pg/g

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Ongoing Precision Recovery

Ongoing precision recovery (OPR) samples were analyzed as required by the method. Percent recoveries (%R) were within QC limits.