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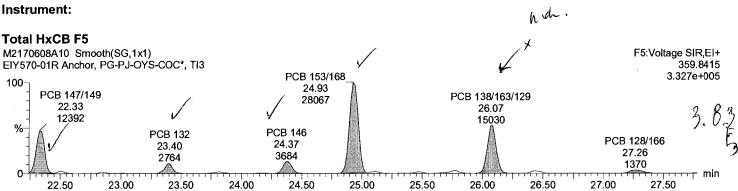
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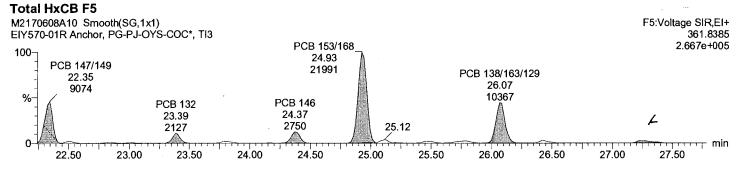
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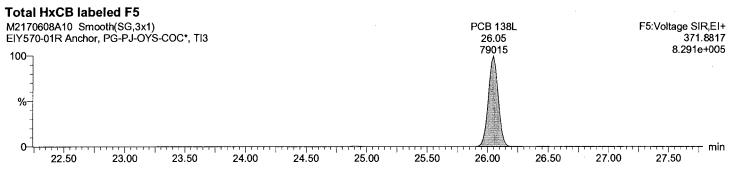
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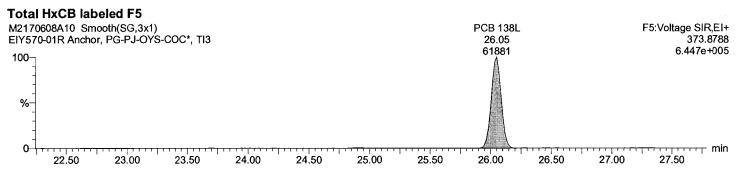
Vial: 10

Date: 09-Jun-2017 Time: 01:21:07 Instrument:









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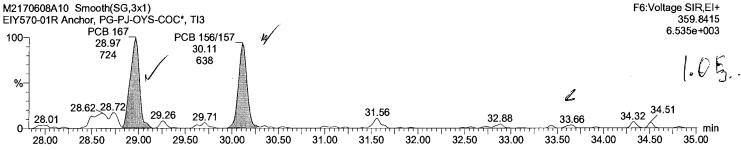
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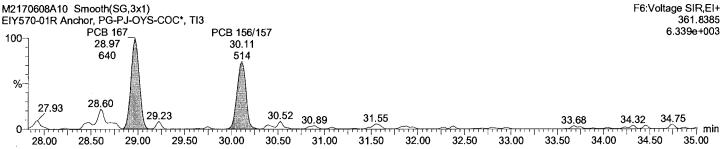
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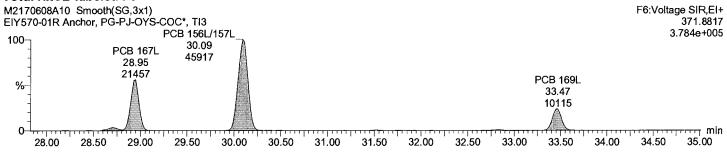




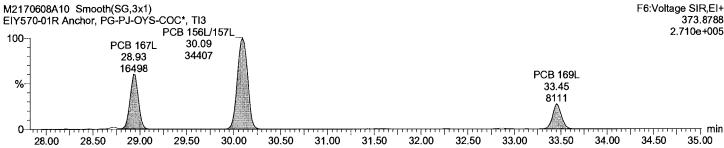
Total HxCB F6



Total HxCB labeled F6



Total HxCB labeled F6



┬ min

27.50

Acquired Date

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Friday, June 09, 2017 4:26:18 PM Friday, June 09, 2017 4:27:08 PM

23.50

24.00

Description: EIY570-01R

Vial: 10

Date: 09-Jun-2017 Time: 01:21:07 Instrument:



M2170608A10 Smooth(SG,3x1) F5:Voltage SIR,EI+ EIY570-01R Anchor, PG-PJ-OYS-COC*, TI3 393.8025 **PCB 187** 5.328e+004 100 27.35 5364 PCB 179 4 % 24.04 **PCB 178** 1349 26.49

721

26.50

27.00

Total HpCB F5

22.50

23.00

0

M2170608A10 Smooth(SG,3x1) F5:Voltage SIR,EI+ ElY570-01R Anchor, PG-PJ-OYS-COC*, TI3 395.7995 5.401e+004 **PCB 187** 100 27.35 5330 PCB 179 % **PCB 178** 24.04 26.49 1064 1005 24.82 0 min 🕂 24.00 26.00 27,00 22.50 23.00 24.50 27.50 23.50 25.00 25.50 26.50

25.00

25.50

26.00

24.82

24.50

Total HpCB labeled F5

M2170608A10 Smooth(SG,3x1) F5:Voltage SIR,EI+ EIY570-01R Anchor, PG-PJ-OYS-COC*, TI3 405.8428 1.720e+005 **PCB 188L** 100 23.73 **PCB 178L** 16089 26.47 9504 % ⊤ min 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50

Total HpCB labeled F5

F5:Voltage SIR,EI+ M2170608A10 Smooth(SG,3x1) 407.8398 EIY570-01R Anchor, PG-PJ-OYS-COC*, TI3 **PCB 188L** 1.600e+005 100 23.73 PCB 178L 15306 26.47 9650 % min المحدد 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50

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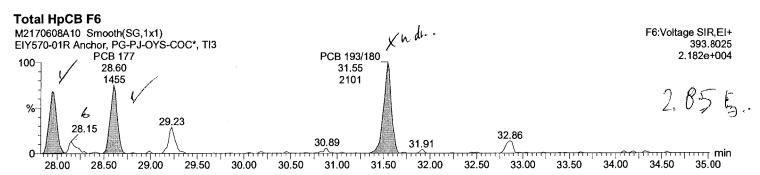
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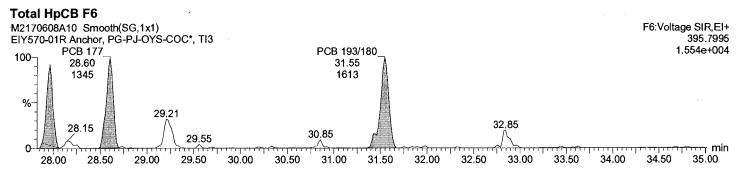
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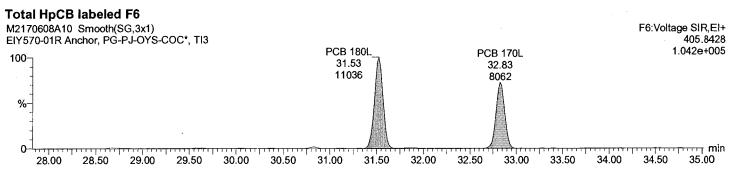
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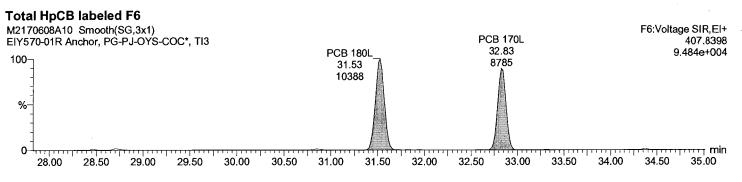
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Date: 09-Jun-2017 Time: 01:21:07 Instrument:









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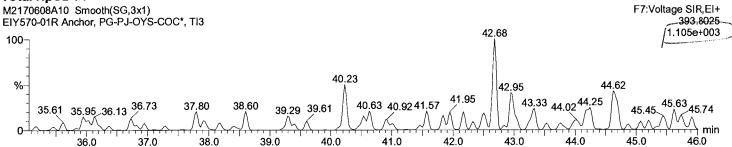
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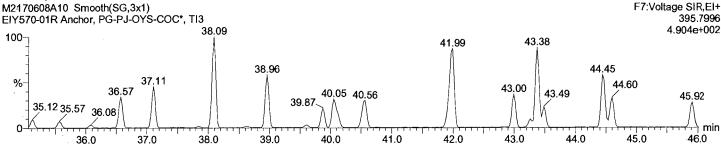
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Date: 09-Jun-2017 Time: 01:21:07 Instrument:

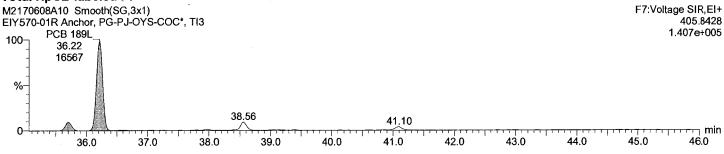




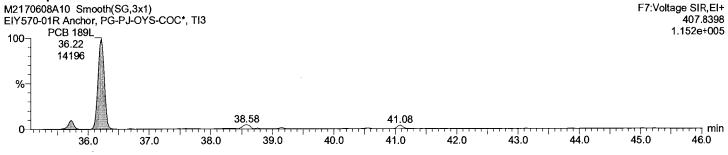
Total HpCB F7



Total HpCB labeled F7



Total HpCB labeled F7



Dataset:

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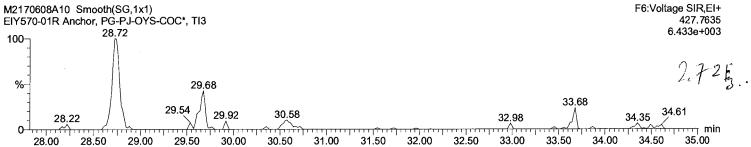
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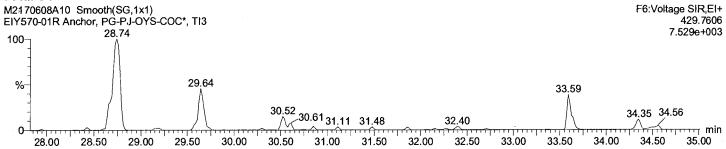
Vial: 10

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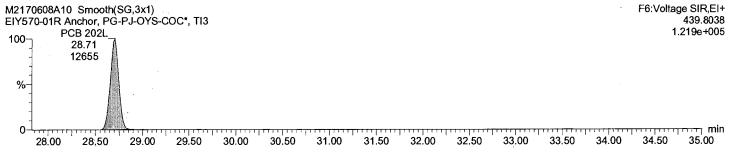




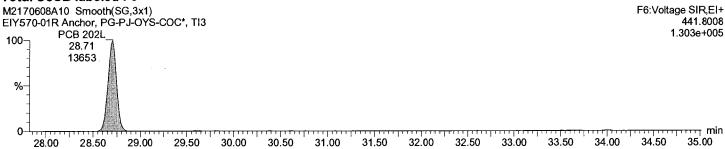




Total OcCB labeled F6



Total OcCB labeled F6



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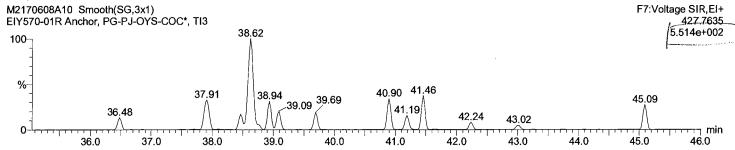
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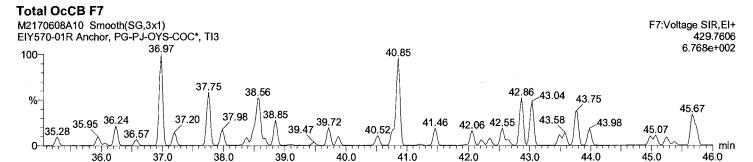
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Vial: 10

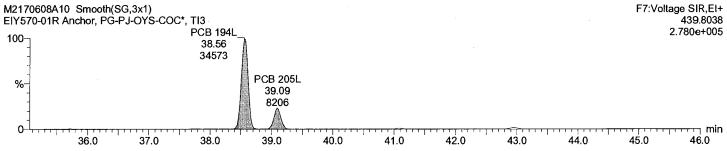
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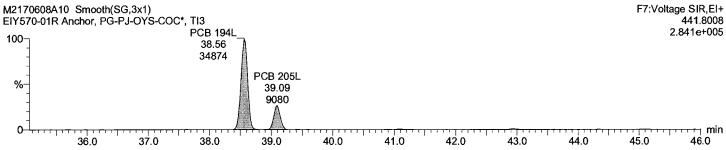








Total OcCB labeled F7



Dataset:

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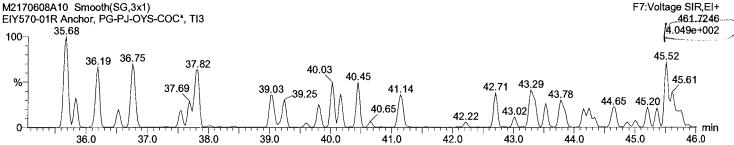
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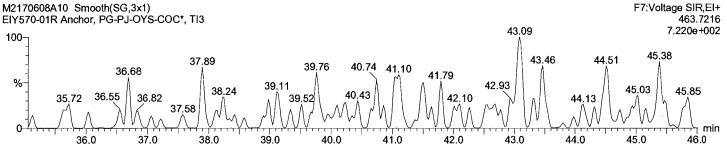
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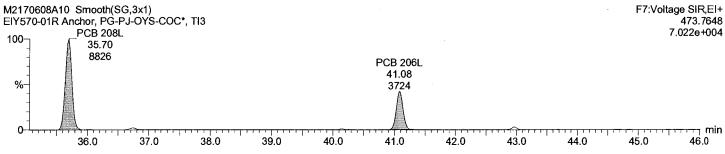




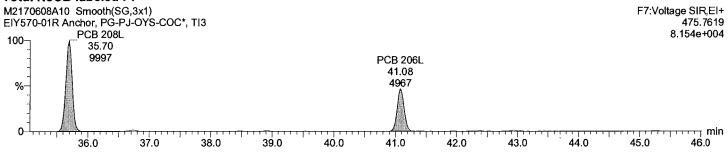
Total NoCB F7



Total NoCB labeled F7



Total NoCB labeled F7



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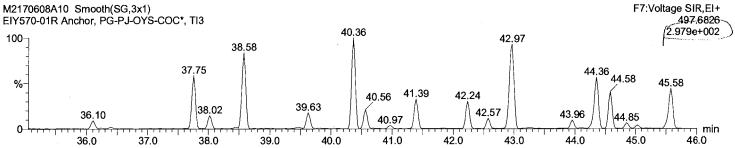
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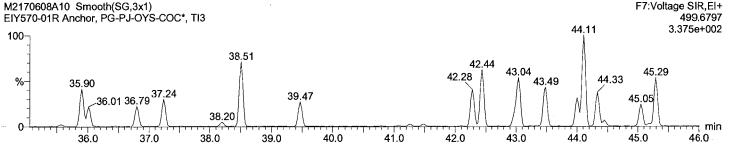
Vial: 10

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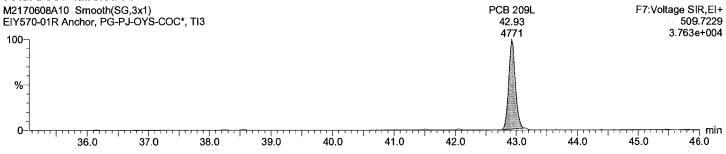




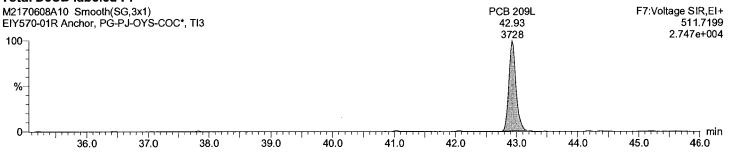
Total DeCB F7



Total DeCB labeled F7



Total DeCB labeled F7



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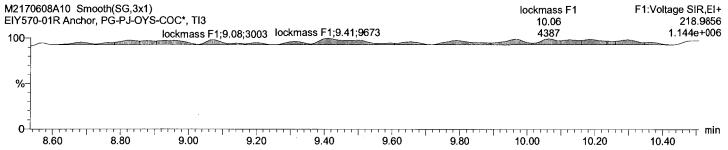
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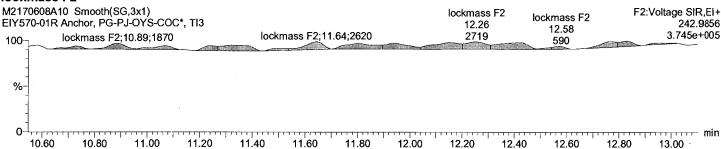
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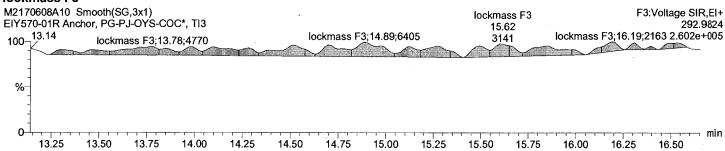




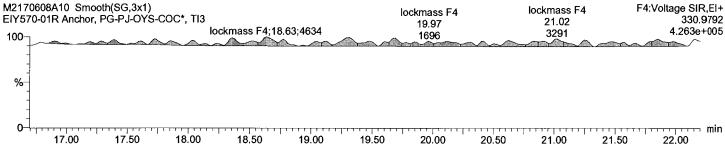
lockmass F2



lockmass F3



lockmass F4



Dataset:

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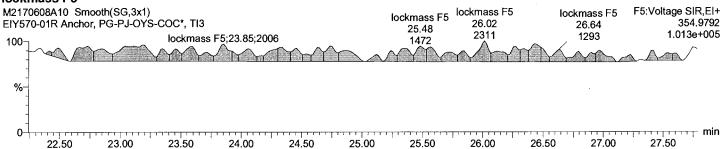
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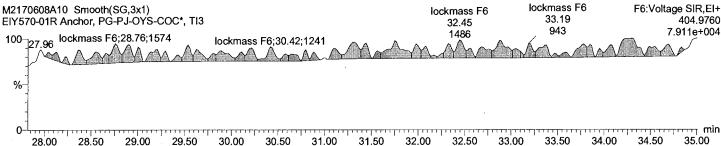
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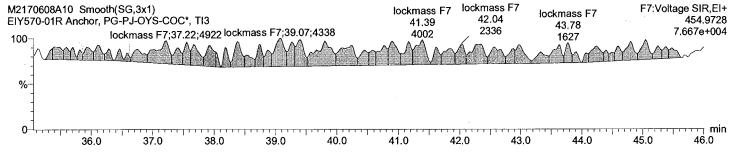


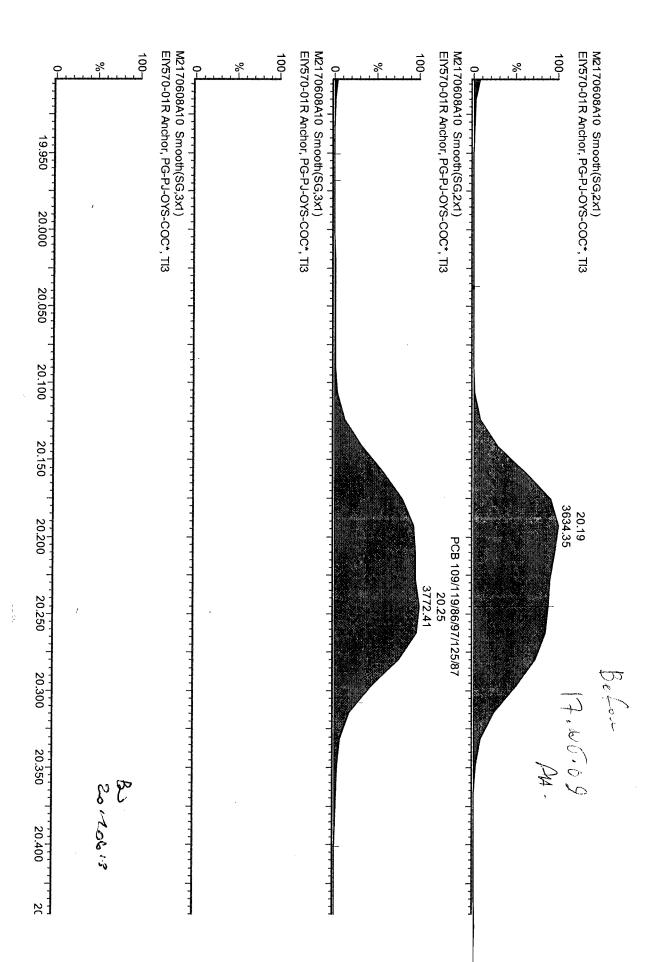


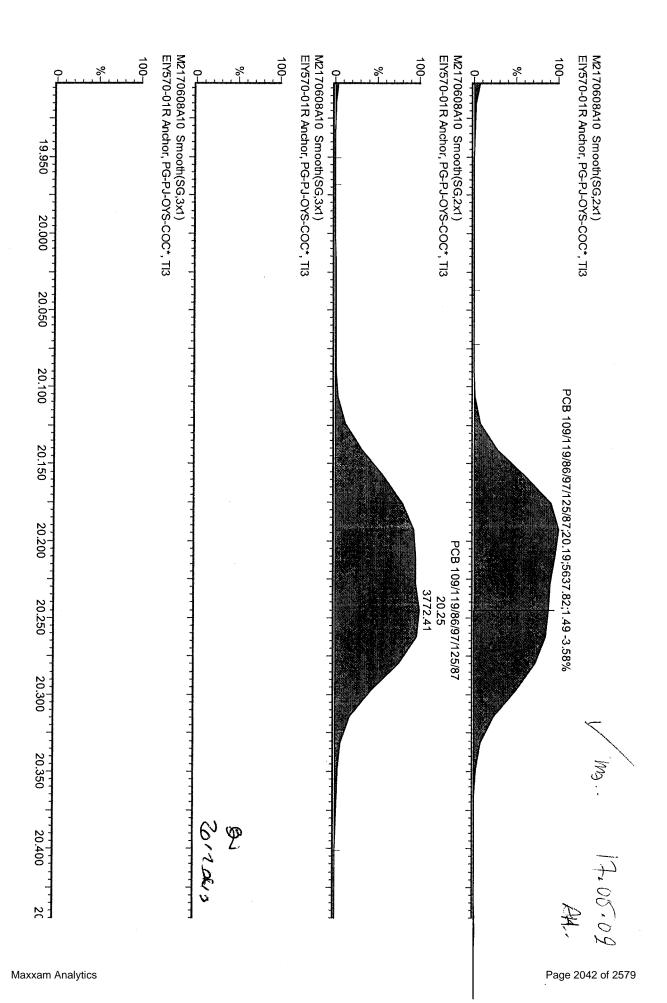




lockmass F7







Filename M2170608A13 Acquired 06/09/2017 3:51

Cali File PCB209_M2170608A

Sample ID EIY573-01R Comments Instrument File Ultima 2 Sample Size 10.02

Dil Fac 1.00

							Isomers					
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2 PCB 2	MoCB 190 188	8.81 NotFnd	*	no *	*	-0.00094		-0.00094	*	no	1.339	-
3 PCB 3	MoCB 190 188	9.92 NotFnd	•	no *	*	-0.00114		-0.00114	•	no	1.102	-
4 PCB 4	MoCB 190 222	10.01 NotFnd	•	no *	•	-0.01909		-0.01909	:	no	1.044	-
5 PCB 10	DICB 224 222	10.12 NotFnd		no *	*	-0.01975		-0.01975	:	no	1.009	-
6 PCB 9	DICB 224 222	10.21 NotFnd	•	no *	•	-0.01578		-0.01578	•	no	1.696	-
7 PCB 7	DiCB 224 222	11.01 NotFnd		по *	•	-0.01578		-0.01578		no	1.696	-
8 PCB 6	DICB 224 222	11.08 NotFnd	•	no *	*	-0.01543		-0.01543	*	no	1.735	-
9 PCB 5	DiCB 224 222	11.19 NotFnd	•	no *	•	-0.0192		-0.0192	•	no	1.394	-
10 PCB 8	DiCB 224 222	11.31 NotFnd	:	no *	•	-0.01367		-0.01367	*	no	1.958	-
11 PCB 14	DICB 224 222	11.38 NotFnd	•	no *	*	-0.01518		-0.01518	*	no	1.764	-
12 PCB 11	DICB 224 222	12.06 12.42	-2413	no 1.56	-3959.79	-0.01561		~0.01561	*	Ор-О	1.715	-
13 PCB 13/12	DICB 224 222	12.41 NotFnd	-1546.79	ok *	*	-0.01662		-0.01662	*	. no	1.611	-
14 PCB 15	DICB 224 222	12,55 NotFnd	:	no *	*	-0.02721		-0.02721	*	no	0.984	-
15 PCB 19	DICB 224 256	12.70 NotFnd	*	no *	•	-0.01883		-0.01883	*	no	1.004	-
16 PCB 30/18	TriCB 258 256	11.50 NotFnd	:	no *	•	-0.02119		-0.02119	*	no	0.892	-
17 PCB 17	TriCB 258 256	12.27 NotFnd	:	no *		-0.02644		-0.02644	*	по	0.715	-
18 PCB 27	TriCB 258 256	12.47 NotFnd	*	no •	•	-0.01846		-0.01846	*	no	1.024	-
19 PCB 24	TriCB 258 256	12.56 NotFnd	:	no *	•	-0.0183		-0.0183	*	no	1.033	-
20 PCB 16	TrlCB 258 256	12.63 NotFnd	:	no *	•	-0.03444		-0.03444	*	no	0.549	_
21 PCB 32	TriCB 258 256	12.68 NotFnd	:	no *		-0.01666		-0.01666	*	no	1.135	_
22 PCB 34	TriCB 258 256	12.93 NotFnd	:	no •		-0.00228		-0.00228	*	no	1.744	-
23 PCB 23	TriCB 258 256	13.49 NotFnd	*	no *		-0.00246		-0.00246	*	no	1.621	٠.
24 PCB 26/29	TrlCB 258 256	13.57 NotFnd	*	no *	•	-0.00224		-0.00224	•	no	1.78	-
25 PCB 25	TriCB 258 256	13.73 NotFnd	:	no *	•	-0.00231		-0.00231	*	no	1.724	
26 PCB 31	TriCB 258 256	13.84 1 3.99	1132	no 1.1	2167	0.005463		-0.00214	10	no	1.861	-
27 PCB 28/20	TriCB 258 256	14.01 14.14	1035 -898	yes 1.04	-1761.46	-0.00468	PCB 28/20 NDR	-0.00224	9 7	хĹ	1.776	
28 PCB 21/33	TriCB 258 256	14.15 14.27	-863.462 371	OK 0.95	762	-0.00246		-0.00246	8	yes	1.62	-
29 PCB 22	TriCB 258 256	14.25 NotFnd	391	no *		-0.00247		-0.00247	:	no	1.614	
30 PCB 36	TriCB 258 256	14.50 NotFnd	*	no *		-0.002		-0.002	*	no	1.988	-
31 PCB 39	TriCB 258 256	15.30 NotFnd	*	no *	*	-0.00225		-0.00225	*	no	1.774	-
32 PCB 38	TriCB 258 256	15.49 NotFnd	*	no *		-0.00254		-0.00254	*	no	1.57	
33 PCB 35	TriCB 258 256	15.85 NotFnd	*	no *	*	-0.0024		-0.0024	:	no	1.661	
34 PCB 37	TrlCB 258 256	16.11 NotFnd	•	no *		-0.00415		-0.00415	*	no	0.959	
35 PCB 54	TriCB 258 290	16.36 NotFnd	*	no *	*	-0.0011		-0.0011	*	no	0.927	_
36 PCB 53/50	TCB 292 290	12.86 NotFnd	*	no *	*	-0.00668		-0.00668	:	no	0.851	-
37 PCB 45/51	TCB 292 290	13.87 NotFnd	*	no *	*	-0.00708		-0.00708	:	no	0.803	-
38 PCB 46	TCB 292 290	14.22 NotFnd	•	no *	*	-0.00865		-0.00865	*	no	0.657	_
39 PCB 52	TCB 292 290	14.36 15.08	* 881	no 0.8 7	1892	0.00929		-0.00683	* 5	yes	0.832	-
40 PCB 73	TCB 292 290	15.09 NotFnd	1011	yes *	•	-0.00492		-0.00492	5 *	no	1.155	_
41 PCB 43	TCB 292 290	15.15 NotFnd	*	no *	*	-0,00959		-0,00959	*	no	0.593	_
42 PCB 69/49	TCB 292 290	15.22 15.36	* 843	no 0.77	1931	0.008353		-0.00602	* 5	yes	0.944	_
	TCB 292	15.35	1088	yes					5	•		

43 PCB 48	290	NotFnd	*	•	*	-0.00708		-0.00708	*	no	0.803	-
	TCB 292	15.51	*	no					*			
44 PCB 44/47/65		15.67	-1056.44	0.77	-2428.44	-0.01109	PCB 44/47/65 NDR	-0.00637	7	хL	0.893	-
45 PCB 59/62/75	TCB 292 5 290	15.68 NotFnd	-1372	ok *	*	-0.0052		0.0053	5		4.004	
43 F CD 33/02/13	TCB 292	15.85	* '	no		-0.0002		-0.0052		no	1.094	-
46 PCB 42	290	NotFnd	*	*	*	-0.00831		-0.00831	•	no	0.684	-
	TCB 292	15.96	*	no					*		•	
47 PCB 40/41/71		NotFnd	*	*	*	-0.0072		-0.0072	*	no	0.79	-
40 000 04	TCB 292	16.24	:	no					*			
48 PCB 64	290 TCB 292	NotFnd 16.37			*	-0.00565		-0.00565		no	1.006	-
49 PCB 72	290	NotFnd		no *		-0.00315		-0.00315	*	no	1.674	_
.0 , 02 .2	TCB 292	16.87	*	по		0.00010		-0.00310	*	110	1.074	_
50 PCB 68	290	NotFnd	*	*	*	-0.00312		-0.00312	*	по	1,686	-
	TCB 292	17.04	•	по					*			
51 PCB 57	290	NotFnd	:	*	*	-0.00345		-0.00345	*	no	1.529	-
52 PCB 58	TCB 292 290	17.29 NotFnd	:	no *		-0.00353		0.00353	:		4.402	
32 FCB 30	TCB 292	17.46		no		-0.00303		-0.00353		no	1.493	•
53 PCB 67	290	NotFnd	*	*	*	-0.0033		-0.0033	*	no	1.598	
	TCB 292	17.58	•	no					*			
54 PCB 63	290	NotFnd	•	*	•	-0.00341		-0.00341	*	no	1.543	-
FF DOD 64767	TCB 292	17.75	4050	no					*			
55 PCB 61/70/74	1/76 290 TCB 292	17.98 17.96	1650 1881	0.88	3531	0.010017		-0.00366	6 5	no	1.439	-
56 PCB 66	290	NotFnd	*	yes *	*	-0.00356		-0.00356	*	no	1.48	_
-	TCB 292	18.19	•	no					*	2		
57 PCB 55	290	NotFnd	*	•	*	-0.004		-0.004	*	no	1.317	-
50 DOD 50	TCB 292	18.30	*	no	_	0.00000			*		4	
58 PCB 56	290 TCB 292	NotFnd	*	*	*	-0.00393		-0.00393		no	1.34	-
59 PCB 60	1CB 292 290	18.65 NotFnd	*	no *	•	-0.00427		-0.00427	*	no	1.235	_
	TCB 292	18.80	*	no		0.00427		-0.00421	*	no	1,200	-
60 PCB 80	290	NotFnd	*	*	•	-0.0035		-0.0035	*	no	1.505	-
	TCB 292	19.07	*	no					*			
61 PCB 79	290	NotFnd	•	•	*	-0.00343		-0.00343	*	no	1.536	-
62 PCB 78	TCB 292 290	20.20 NotFnd		no *		-0.00396		0.00206	*		4 220	
02 FCB 70	TCB 292	20.64	*	no		-0.00390		-0.00396	*	no	1.329	-
63 PCB 81	290	NotFnd	*	*	*	-0.00505		-0.00505	•	по	1.044	-
	TCB 292	20.98	*	no					*	***		
64 PCB 77	290	NotFnd	•	*	•	-0.00512		-0.00512	*	no	1.028	-
05 DOD 404	TCB 292	21.41	:	no		0.00005			*			
65 PCB 104	326 PeCB 328	NotFnd 15.63			•	-0.00035		-0.00035		no	1.063	
66 PCB 96	326	NotFnd	•	no *		-0.00043		-0.00043	*	no	0.859	_
00 1 02 00	PeCB 328	15.85	*	no		0.00040		-0.00040		110	0.003	
67 PCB 103	326	NotFnd	•	*	•	-0.00497		-0.00497	*	no	0.787	-
	PeCB 328	16.99		no					•			
68 PCB 94	326	NotFnd	:		•	-0.0063		~0.0063	:	по	0.621	-
69 PCB 95	PeCB 328 326	17.13 17.41	939	no 1.75	14 74	0.008465		-0.00561	5	140.0	0.607	
03 00 33	PeCB 328	17.41	535	yes	14/4	0.000400		-0.00561	5	yes	0.697	-
70 PCB 100/93/1		NotFnd	*	*	*	-0.00585		-0.00585	*	no	0.669	-
	PeCB 328	17.57	*	no					•			
71 PCB 88/91	326	NotFnd	•	*	•	-0.00597		-0.00597	*	no	0.655	-
72 PCB 84	PeCB 328 326	17.94 NotFnd	•	no *		-0.00713		0.00740	•		0.540	
12 PCB 04	PeCB 328	18.15		no		-0.00713		-0.00713	*	no	0.549	-
73 PCB 89	326	NotFnd	*	110	•	-0.00638		-0.00638		no	0.613	_
	PeCB 328	18.44		по					•			
74 PCB 121	326	NotFnd	•	*	*	-0.00452		-0.00452	*	no	0.866	-
75 DOD 00	PeCB 328	18.71	:	no		0.0000			*			
75 PCB 92	326 PeCB 328	NotFnd 18.96		no	-	-0.0065		-0.0065		no	0.602	-
76 PCB 113/90/10		19.38	2501	1.63	4032	0.023002		-0.00557	13	no	0.702	
	PeCB 328	19.38	1531	yes					11			
77 PCB 83/99	326	19.81	1210	1.51	2010	0.013468		-0.00654	6	yes	0.598	-
70 DCD 110	PeCB 328	19.82 NotEnd	800	yes *		0.00434		0.00474	6		0.005	
78 PCB 112	326 PeCB 328	NotFnd 19.94	*	no	-	-0.00474		-0.00474		no	0.825	-
79 PCB 109/119/8		NotFnd	*	*		-0.00523		-0.00523		no	0.748	_
	PeCB 328	20.22	•	no					•		0	
80 PCB 117/116/8	35 326	20.75	460	1.73	727	-0.00531		-0.00531	*	yes	0.737	-
	PeCB 328	20.80	266	no					*			
81 PCB 110/115	326	20.87	-1635 1054 94	1.55	-2689.84	-0.01419	PCB 110/115 NDR	-0.00514	8	хL	0.761	-
82 PCB 82	PeCB 328 326	20.89 NotFnd	-1054.84	ok *		-0.00758		-0.00758	11 *	no	0.516	_
	PeCB 328	21.13	*	no		5,55700		0.00700	•		0.010	-
83 PCB 111	326	NotFnd	*	*	*	-0.00461		-0.00461	*	no	0.848	-
	PeCB 328	21,42	*	no					*			
84 PCB 120	326	NotFnd		*	*	-0.00434		-0.00434	:	no	0.902	-
85 PCB 108/124	PeCB 328 326	21.80 NotFnd	*	no *	*	*U UU354		ച സാഭഷ	*		1 264	
00 FOD 100/124	PeCB 328	22.70	•	no		-0.00361		-0.00361	*	no	1.261	•
86 PCB 107	326	NotFnd	*	*	•	-0.00328		-0,00328	*	no	1.386	-
	PeCB 328	22.93	*	no					•	-		
87 PCB 123	326	NotFnd	*	*	*	-0.00494		-0.00494	*	no	0.921	-
99 DCD 406	PeCB 328	23.03		no *		0.00000		0.00000	*		4.470	
88 PCB 106	326 PeCB 328	NotFnd 23.14	•	no	•	-0.00388		-0.00388		по	1.173	-
89 PCB 118	326	23.14	2606	1.43	4434	0.015015		-0.00441	10	no	1.032	_
	PeCB 328	23.33	1828	yes	-				10	***		

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	_									4.470	
90 PCB 122	PeCB 3	26 NotFnd 28 23.58		no	•	-0.00388		-0.00388	* no	1.173	-
91 PCB 114	3	26 NotFnd	*	*	•	-0.0044		-0.0044	* no	1.033	-
92 PCB 105	PeCB 3	28 23.77 26 24.34	- 951	no 1.55	-1564.55	-0.00573	PCB 105 NDR	-0.00448	* 4 xL	1.016	
	PeCB 3	28 24.35	-613.548	ΟK					5		
93 PCB 127	PeCB 3	26 NotFnd 28 25.64	*	по	*	-0.00357		-0.00357	* no	1.275	-
94 PCB 126	3:	26 NotFnd	•	•	*	-0.00412		-0.00412	* no	1.105	-
95 PCB 155	PeCB 3	28 27.15 60 NotFnd		,πo *	*	-0.00591		-0.00591	* no	0.975	
	HxCB 3	62 19.24	•	по					*		
96 PCB 152	HxCB 3	60 NotFnd 62 19.38	*	* по	•	-0.00675		-0.00675	* no	0.853	•
97 PCB 150	3	60 NotFnd	•	*	*	~0.00683		-0.00683	* no	0.843	-
98 PCB 136	HxCB 3	62 19.49 60 NotFnd	*	no *		-0.00678		-0.00678	* no	0.85	
30 FGB 130	HxCB 3	62 19.76	•	no					*		
99 PCB 145	HxCB 34	60 NotFnd 62 20.01	*	no	•	-0.00747		-0.00747	* no	0.771	-
100 PCB 148	3	60 NotFnd	*	*	*	-0.00926		-0.00926	* no	0.622	-
101 PCB 151/135	HxCB 3	62 21.11 60 NotFnd	:	no *		-0.01016		-0.01016	* no	0.567	
	HxCB 3	62 21.59	*	no					*		
. 102 PCB 154	HxCB 3	60 NotFnd 62 21.80	:	no	•	-0.00822		-0.00822	* no	0.701	-
103 PCB 144	3	60 NotFnd	•	*	*	-0.0094		-0.0094	* no	0.613	-
104 PCB 147/149	HxCB 3	62 22.05 60 22.33	1467	no 1.14	2756	0.021377		-0.0148	5 yes	0.758	_
	HxCB 3	62 22. 3 6	1289	yes					5		
105 PCB 134/143	HxCB 3	60 NotFnd 62 22,59	•	no	•	~0.01833		-0.01833	* no	0.612	-
106 PCB 139/140	30	60 NotFnd		*	•	-0.01492		-0.01492	* no	0.752	-
107 PCB 131	HxCB 36	62 22.86 60 NotFnd		no *		-0.02022		-0.02022	* no	0.555	
	HxCB 3	62 23.03		no			•		•		
108 PCB 142	HxCB 3	60 NotFnd 62 23.17		по	•	-0.01789		-0.01789	* no	0.627	-
109 PCB 132	36	60 NotFnd	•	•	*	-0.01879		-0.01879	* no	0.597	
110 PCB 133	HxCB 3	62 23,42 60 NotFnd		no •		-0.01614		-0.01614	* no	0.695	-
	HxCB 3	23.84	•	no					•		
111 PCB 165	HxCB 36			no	•	-0.01291		-0.01291	* no	0.869	-
112 PCB 146	36	NotFnd	•	*	•	-0.01365		-0.01365	* no	0.822	-
113 PCB 161	HxCB 36		:	no •	*	-0.01176		-0.01176	* no	0.954	-
	HxCB 36	62 24.49	*	no	7040				*	0.005	
114 PCB 153/168	HxCB 36		3873 3137	1.23 yes	7010	0.042693		-0.01163	12 no 12	0.965	-
115 PCB 141	36	NotFnd		*	•	~0.0169		-0.0169	* no	0.664	-
116 PCB 130	HxCB 36		•	no *	•	-0.01775		-0.01775	* no	0.632	-
	HxCB 36		:	uo		0.04650		0.01650	* no	0.679	
117 PCB 137	HxCB 36		*	no	_	-0.01652		-0.01652	*	0.079	-
118 PCB 164	36 HxCB 36		•	*	*	-0.01138		-0.01138	* no	0.986	-
119 PCB 138/163/129			3250	no 1.33	5687	0.044631		-0.01498	9 no	0.749	-
120 PCB 160	HxCB 36		2437	yes *		-0.01276		-0.01276	9 * no	0.879	_
120 FCB 100	HxCB 36		•	no					*		
121 PCB 158	HxCB 36		•	no	•	-0.0109		-0.0109	* no	1.029	-
122 PCB 128/166	36	NotFnd	•	*	•	-0.01397		-0.01397	* no	0.803	-
123 PCB 159	HxCB 36		:	no *		-0,00367		-0.00367	* no	1.249	-
	HxCB 36	28.23	•	no					*		
124 PCB 162	36 HxCB 36		•	no	•	-0.00369		-0.00369	* no	1.244	•
125 PCB 167	36	NotFnd		•	•	-0.00415		-0.00415	* no	1.105	-
126 PCB 156/157	HxCB 36		*	no *		-0.00439		-0.00439	* no	1.045	_
	HxCB 36	30.12	*	no					*		
127 PCB 169	36 HxCB 36		:	no	-	-0.00442		-0.00442	* no	1.037	•
128 PCB 188	39	4 NotFnd	*	*	*	-0.00641		-0.00641	* no	1.011	-
129 PCB 179	HpCB 39		*	no *		-0.00591		-0.00591	* no	1.097	-
	HpCB 39	6 24.04	*	no					*		
130 PCB 184	HpCB 39		•	no	-	-0.00555		-0.00555	* no	1.168	-
131 PCB 176	39	4 NotFnd	*	*	•	-0.00611		-0.00611	* no	1.061	-
132 PCB 186	HpCB 39			no *	•	-0.00624		-0.00624	* no	1.038	-
	HpCB 39	6 25.23	*	no					*	0.770	_
133 PCB 178	HpCB 39		•	no	-	-0.00839		-0.00839	* no	0.772	-
134 PCB 175	39	4 NotFnd		•	*	-0.00745		-0.00745	* no	0.87	-
135 PCB 187	HpCB 39		1157	no 1.09	2221	0.019983		-0.00761	5 no	0.851	-
	HpCB 39	6 27.34	1065	yes	*				5	0.808	_
136 PCB 182	39 HpCB 39			no	•	-0.00802		-0.00802	* no	0.000	-

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137 PCB 183	394	NotFnd	•	*	*	-0.00905		-0.00905	*	no	1.085	-
138 PCB 185	HpCB 396 394	27.94 NotFnd	•	no *		-0.01097		-0.01097		no	0.895	_
100 FOB 100	HpCB 396	28,03	•	no		-0.01007		0.01007	*	110	3,000	
139 PCB 174	394	NotFnd	*	•	*	-0.01006		-0.01006	*	no	0.976	-
440 DCB 477	HpCB 396 394	28.19 NotFnd	:	no *		-0.01078		-0.01078	*	по	0.911	_
140 PCB 177	HpCB 396	28.60	•	no		-0.01070		-0.01070	*	110	0.511	
141 PCB 181	394	NotFnd	•	•	*	-0.01074		-0.01074	*	no	0.914	-
440 DOD 474/470	HpCB 396	29.01	:	no		0.01104		-0.01104		no	0.889	
142 PCB 171/173	394 HpCB 396	NotFnd 29.23		no		-0.01104		-0.01104	*	110	0.003	-
143 PCB 172	394	NotFnd	•	*	*	-0.01096		-0.01096	*	no	0.896	-
444 808 400	HpCB 396	30.87	•	no		0.00005		0.00005	•		4 44	
144 PCB 192	394 HpCB 396	NotFnd 31.18		no		~0.00885		-0.00885		no	1.11	•
145 PCB 193/180	394	31.57	-824.25	1.05	-1609.25	-0.01095	PCB 193/180 NDR	-0.0077	4	хL	1.275	-
	HpCB 396	31.53	-785	οĸ				0.00700	4		4.055	
146 PCB 191	394 HpCB 396	NotFnd 31.91		no	•	-0.00782		-0.00782	*	no	1.255	•
147 PCB 170	394	NotFnd	•	*	*	-0.00751		-0.00751	*	no	1.308	-
	HpCB 396	32.86	*	no					*		4.404	
148 PCB 190	394 HpCB 396	NotFnd 33.42		no	•	-0.00844		-0.00844	*	no	1.164	-
149 PCB 189	394	NotFnd	-559	1.05	-1091.38	-0.0023		-0.0023	*	хL	0.93	-
	HpCB 396	36.25	-532.381	OK					*			
150 PCB 202	428 OcCB 430	NotFnd 28.74		*	*	-0.01363		-0.01363	*	no	0.994	-
151 PCB 201	428	NotFnd	•	no *	*	-0.01236		-0.01236	*	no	1.096	
	OcCB 430	29.66	•	no					*			
152 PCB 204	428	NotFnd	:	*	*	-0.01237		-0.01237	:	no	1.095	-
153 PCB 197	OcCB 430 428	30.34 NotFnd		no •		-0.01186		-0.01186	*	no	1.142	
	OcCB 430	30.57	•	no					*			
154 PCB 200	428	NotFnd	•	•	*	-0.01406		-0.01406	*	no	0.963	-
155 PCB 198/199	OcCB 430 428	30.69 NotFnd		no *		-0.01881		-0.01881	*	no	0.72	
700 1 22 1001111	OcCB 430	33.62	*	no					*			
156 PCB 196	428	NotFnd		*	*	-0.0182		-0.0182		no	0.744	-
157 PCB 203	OcCB 430 428	34.33 NotFnd		no *		-0.01818		-0.01818		no	0.745	-
107 1 05 200	OcCB 430	34.52	•	no		2,01010		-,-,-	*			
158 PCB 195	428	NotFnd		•	•	-0.01022		-0.01022	*	no	0.849	-
159 PCB 194	OcCB 430 428	35.97 NotFnd		no *		-0.00981		-0.00981		no	0.885	
100 1 05 134	OcCB 430	38.59		no		0.00001		0.00007	•		0.000	
160 PCB 205	428	NotFnd	*	*	*	-0.0081		-0.0081	*	no	1.071	-
161 PCB 208	OcCB 430 462	39.13 NotFnd	:	no *		-0.01168		-0.01168		no	1.003	_
101 FCB 200	NoCB 464	35.74	*	no		-0.01100		-0.01100	*	110	1.000	
162 PCB 207	462	NotFnd	*	•	•	-0.00937		-0.00937	*	no	1.25	-
462 DOD 206	NoCB 464 462	36.78	:	no *		-0.01187		-0.01187	*	по	0.987	
163 PCB 206	NoCB 464	NotFnd 41.08	*	no		-0.01107		-0.01107	*	110	0.301	-
164 PCB 209	498	NotFnd	*	*	•	-0.0245		-0.0245	* .	no	0.956	•
405 DOD 41	DCB 500	42,97	40407	no	0.4700	A AFFECO		0.001	603		0.978	28
165 PCB 1L	200 202	8.81 8.82	1 9187 5603	3.42 yes	247 9 0	0.055568		0.001	60	no	0.970	20
166 PCB 3L	200	10.00	21665	3.28	28278	0.063106		0.001	773	no	0.983	32
	202	9.99	6613	yes	40000			0.004	79		0.206	20
167 PCB 4L	234 236	10.11 10.10	6384 4454	1.43 yes	10839	0.060065		0.001	173 571	no	0.396	30
168 PCB 15L	234	12.70	33788	1.62	54689	0.110946		0.001	349	no	1.081	56
	236	12.67	20902	yes	4.4070			0.000	704		0.400	20
169 PCB 19L	268 270	11.48 11.47	7843 6830	1.15 yes	14672	0.076299		0.003	70 92	по	0.422	38
170 PCB 37L	268	16.34	36282	1.06	70396	0.194273		0.006	114	no	2.072	97
	270	16.34	34114	yes				0.004	80		4.004	45
171 PCB 54L	302 304	1 2.83 12.82	6980 9690	0.72 yes	16669	0.089841		0.001	153 671	no	1.061	45
172 PCB 81L	302	20.96	29527	0.82	65523	0.241586		0.001	411	no	1.551	121
	304	20.97	35997	yes					632		4 400	40=
173 PCB 77L	302 304	21.39 21.40	28582 35904	0.8	64485	0.248649		0.001	401 620	no	1.483	125
174 PCB 104L	338	15.62	13786	yes 1.53	22820	0.125737		0	2588	no	1.139	63
	340	15.61	9034	yes					6982			
175 PCB 123L	338 340	23.00 23.02	39182 22018	1.78	61201	0.21587		0.001	1156 510	no	1.78	108
176 PCB 118L	338	23.02 23.28	35405	yes 1.63	57135	0.210504		0.001	1035	no	1.704	105
	340	23.31	21730	yes					503			
177 PCB 114L	338	23.75	34256	1.71	54254	0.208042		0.001	984	no	1.637	104
178 PCB 105L	340 338	23.76 24.30	19999 33636	yes 1.67	53736	0.208099		0.001	465 970	no	1.621	104
110 1 05 1002	340	24.32	20101	yes	00.20	,			446			
179 PCB 126L	338	27.13	25275	1.64	40685	0.193952		0.001	682	по	1.317	97
180 PCB 155L	340 372	27.17 19.22	15410 17865	yes 1.29	31712	0.167035		0	323 15306	no	1.382	84
.30 . 32 1002	374	19.23	13846	yes					17359			
181 PCB 167L	372	28.95	23526	1.33	41274	0.183145		0.001	889	no	1.641	92
182 PCB 156L/157L	374 372	28.94 30.09	17748 4934 7	yes 1.36	85732	0.37309		0.001	668 1506	no	1.673	93
,32 1 00 130D 137E	374	30.14	36385	yes	JJ. JL	4,4,503			1097			
183 PCB 169L	372	33.45	10830	1.18	20004	0.108682		0.001	388	no	1.34	54
	374	33,48	9174	yes					346			

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184	PCB 188L	406	23.73	16343	1.12	30887	0.171039		0	2571	no	1,315	86
		408	23.73	14544	yes					5942			
185	PCB 180L	406	31.53	11509	1	23074	0.27036		0.001	705	no	1.288	135
		408	31.50	11565	yes					1213			
186	PCB 170L	406	32.83	10271	1.2	18866	0.274507		0.001	660	no	1.037	138
		408	32.81	8595	ves					883			
187	PCB 189L	406	36.22	15781	1.01	31435	0.255953		0.002	330	no	1.853	128
		408	36,21	15654	yes					644			
188	PCB 202L	440	28.71	13223	0.89	28041	0.293746		0.001	3246	no	1.44	147
	. 32 - 422	442	28.69	14818	yes	20011	U.2007 10		0.001	1059	110		
190	PCB 205L	440	39.10	8421	0.78	19191	0.196706		0	1302	по	1.472	99
103	F CB 203L	442	39.10	10769		19191	0.150700		U	1443	110	1.472	99
400	PCB 208L	474	35.70	8814	yes 0.83	19463	0.235025		0.004			4.05	440
190	PCB 200L					19403	0.235025		0.001	512	по	1,25	118
		476	35.71	10649	yes					992			
191	PCB 206L	474	41.08	4490	0.87	9651	0.159656		0.001	251	yes	0.912	80
		476	41.10	5161	yes					523			
192	PCB 209L	510	42.93	5365	1.22	9752	0.147976		0	1265	no	0.994	74
		512	42.96	4388	yes					612			
193	PCB 28L	268	14.13	42710	1.06	82917	0.189762		0.005	148	no	2.499	86
	PCB Cleanup Standard	270	14.13	40208	yes					104			
194	PCB 111L	338	21.39	30586	1.7	48617	0.233585		0	6020	no	1.307	105
	PCB Cleanup Standard	340	21.38	18031	yes					1462			
195	PCB 178L	406	26,47	10029	0.94	20675	0.188262		0	1462	по	0.8	85
	PCB Cleanup Standard	408	26.47	10646	yes					4215			
196	PCB 31L	268	NotFnd	•	*				0.005		no	2.397	
	PCB Audit Standard	270	13.98	•	no								
197	PCB 95L	338	NotFnd		*				0		no	0.973	
	PCB Audit Standard		17.37	*	no				٠			0.010	
198	PCB 153L	372	NotFnd		*	*			0.001		no	1.223	
100	PCB Audit Standard		24.93		по				0.001		110	1.220	
100	PCB 9L	234	11.00	316077	1.67	505531	9.964064		_	3248	no		
	PCB Recovery Standard		11.00	189454	yes	505551	3.304004		-	6461	110	=	-
200	PCB 52L	302	15.06	84665	905 0.77	193895	9.945186			1907	no		
200			15.08	109230		193093	3.343100		-	3244	110	-	•
204	PCB Recovery Standard	338	19.36	109230	yes	470044	44 00040						
201	PCB 101L				1.63	176614	11.88948		-	23337	no	-	-
	PCB Recovery Standard		19.31	67265	yes	4-00-0				6010			
202	PCB 138L	372	26.05	85140	1.27	152279	10.45621		•	5953	по	-	-
	PCB Recovery Standard		26.05	67139	yes					4497			
203	PCB 194L	440	38.56	36316	0.98	73479	6.491492		-	5455	по	-	-
	PCB Recovery Standard	442	38.60	37163	yes					4987			
	Oblavablabanida						0.00445	•	0.0044-				
	Chlorobiphenyls						-0.00115	0	-0.00115				
	Dichlorobiphenyls						-0.02721	0	-0.02721				
	Trichlorobiphenyls						0.005463	1	-0.03444				
	Tetrachloroblphenyls						0.02766	3	-0.00959				
	Pentachlorobiphenyls						0.05995	4	-0.00758				
	Hexachlorobiphenyls						0.108701	3	-0.02022				
	Heptachloroblphenyls						0.019983	1	-0.01104				
	Octachlorobiphenyls						-0.01881	0	-0.01881				
	Nonachlorobiphenyls						-0.01187	0	-0.01187				
	Decachlorobiphenyl						-0.0245	0	-0.0245				
	PCB (total)						0.221757						

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Dataset:

C:\MassLynx\Default.pro\M2170608A_\M2170608A_sample_1668A.qld

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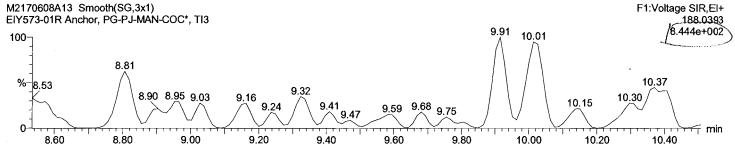
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Description: EIY573-01R

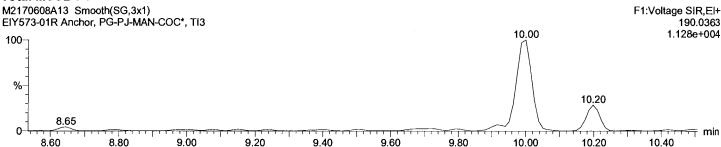
Vial: 13

Date: 09-Jun-2017 Time: 03:51:07 Instrument:

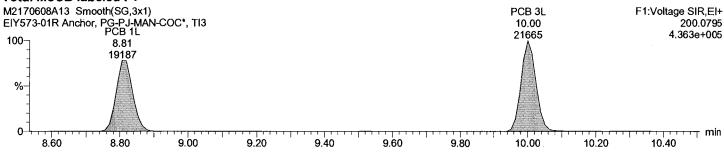




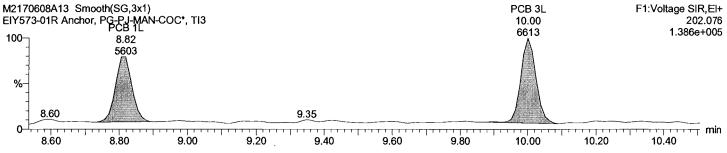








Total MoCB labeled F1



Dataset:

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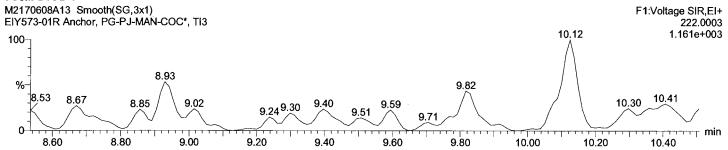
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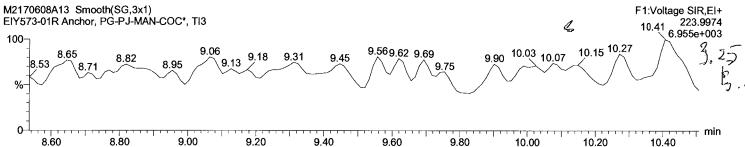
Vial: 13

Date: 09-Jun-2017 Time: 03:51:07 Instrument:

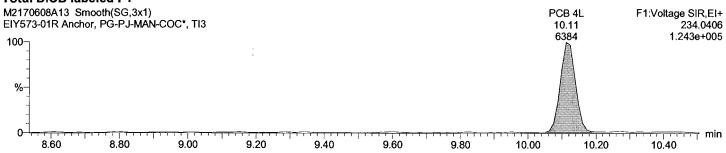
Total DiCB F1



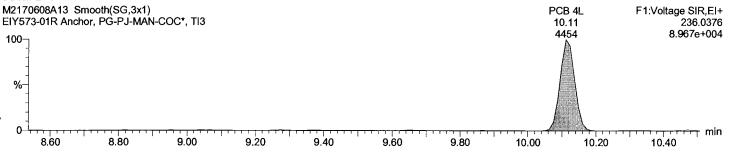




Total DiCB labeled F1



Total DiCB labeled F1



Dataset:

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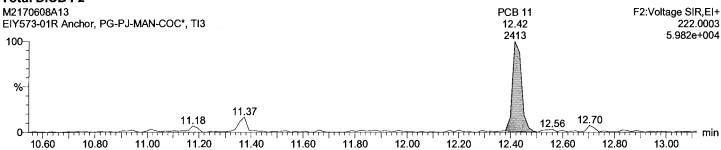
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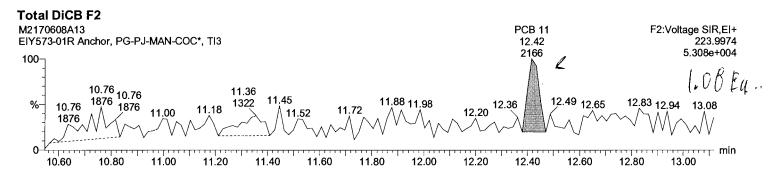
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Vial: 13

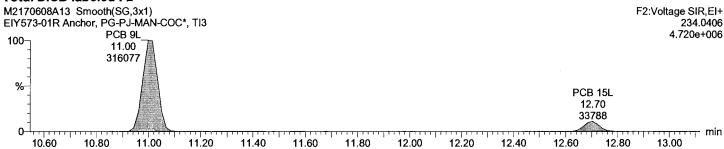
Date: 09-Jun-2017 Time: 03:51:07 Instrument:



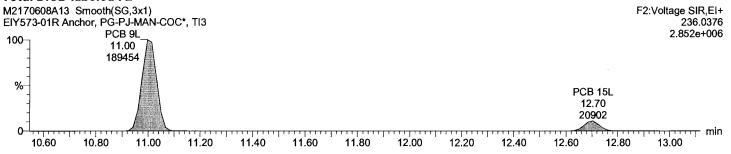




Total DiCB labeled F2



Total DiCB labeled F2



Dataset:

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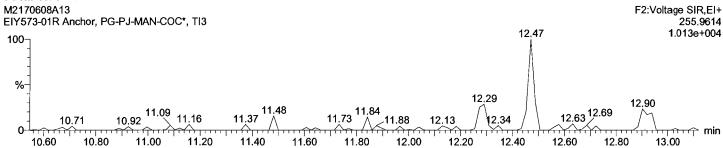
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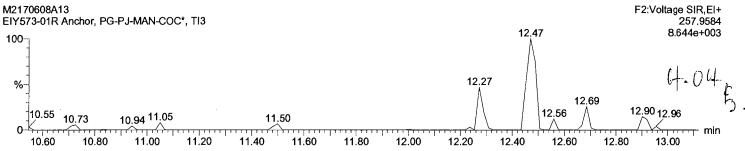
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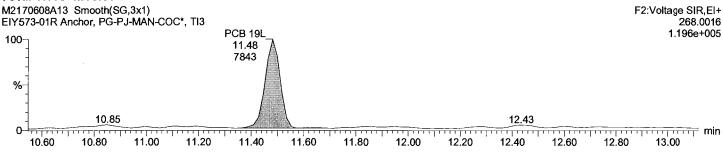




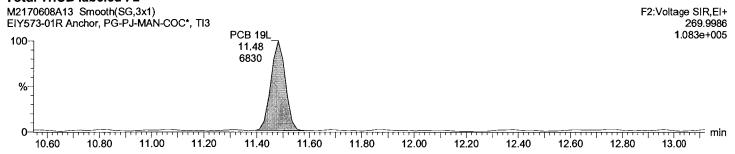
Total TriCB F2



Total TriCB labeled F2



Total TriCB labeled F2



Dataset:

C:\MassLynx\Default.pro\M2170608A_\M2170608A_sample_1668A.qld

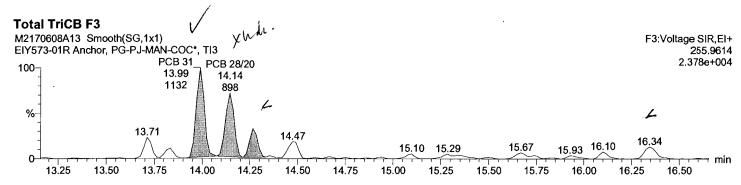
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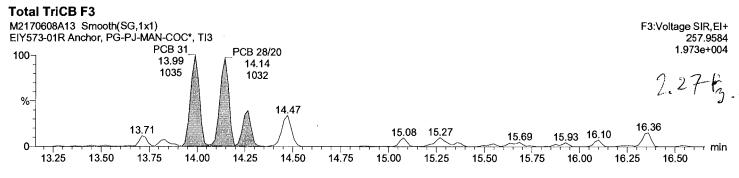
Friday, June 09, 2017 3:59:56 PM Friday, June 09, 2017 4:00:45 PM

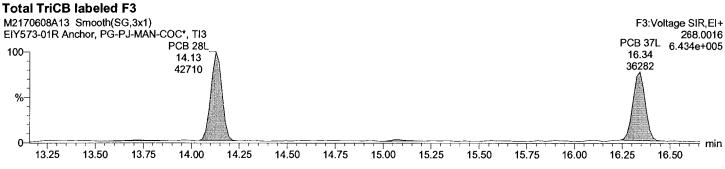
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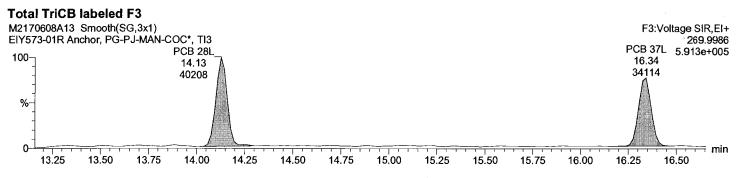
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Dataset:

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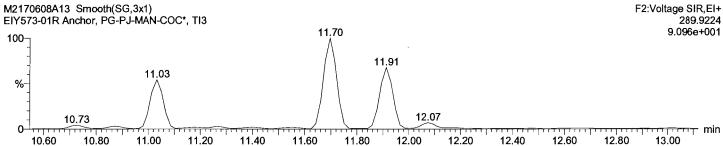
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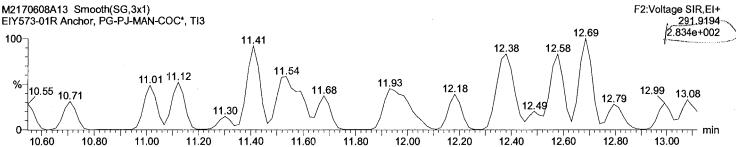
Vial: 13

Date: 09-Jun-2017 Time: 03:51:07 Instrument:

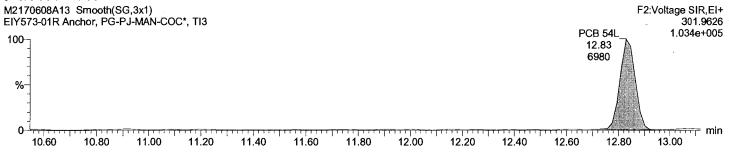
Total TeCB F2



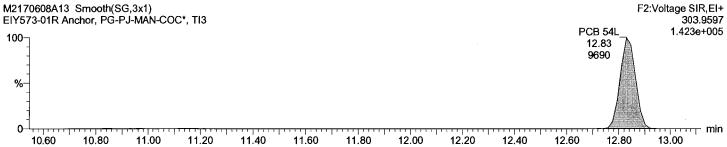
Total TeCB F2



Total TeCB labeled F2



Total TeCB labeled F2



Dataset:

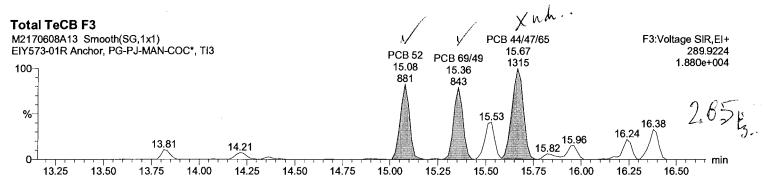
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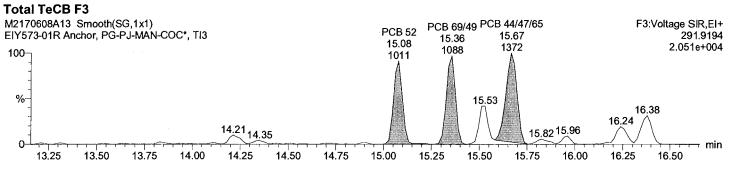
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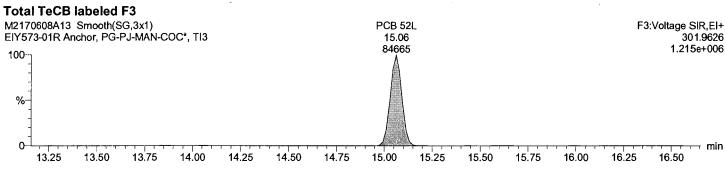
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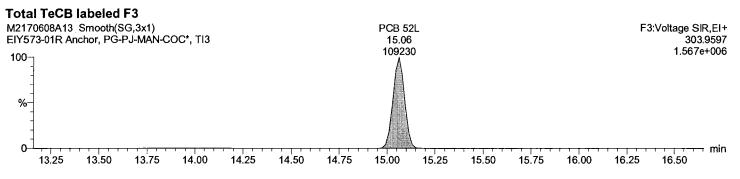
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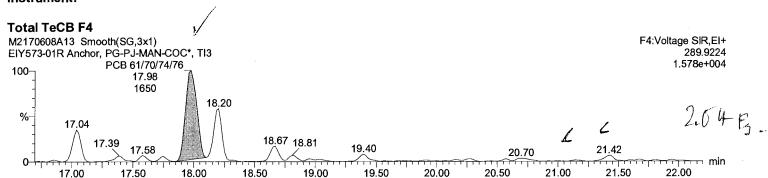
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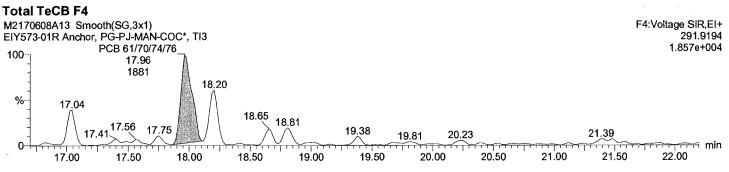
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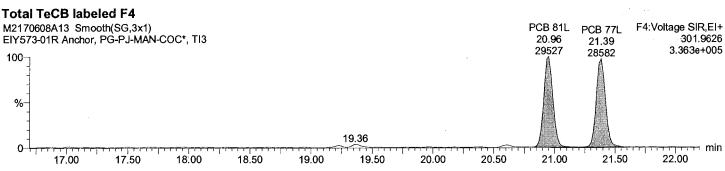
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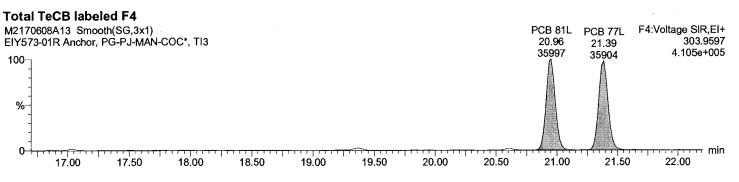
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Date: 09-Jun-2017 Time: 03:51:07 Instrument:









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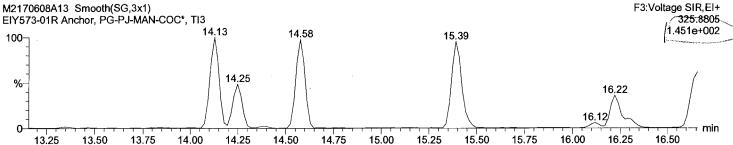
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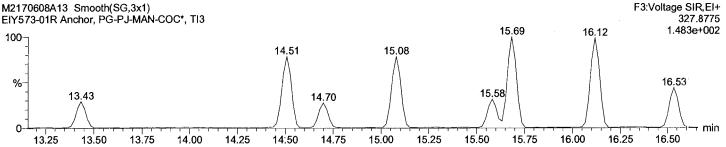
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Date: 09-Jun-2017 Time: 03:51:07 Instrument:

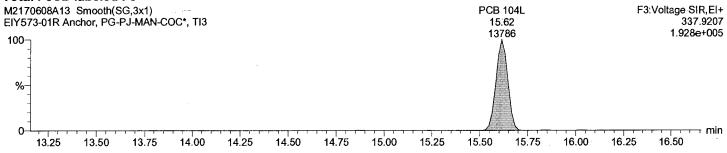




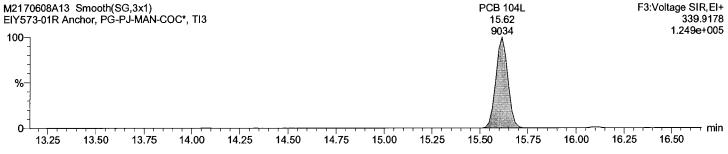
Total PeCB F3



Total PeCB labeled F3



Total PeCB labeled F3



Dataset:

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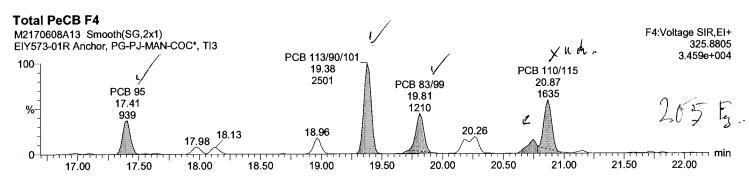
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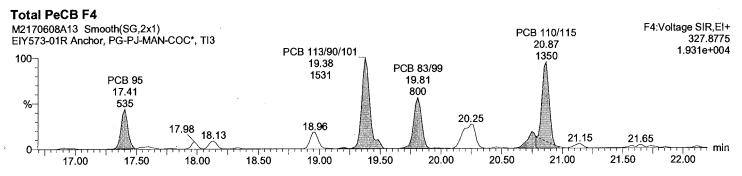
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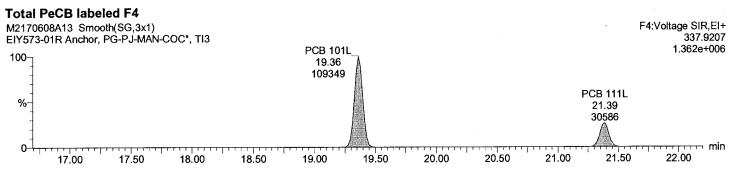
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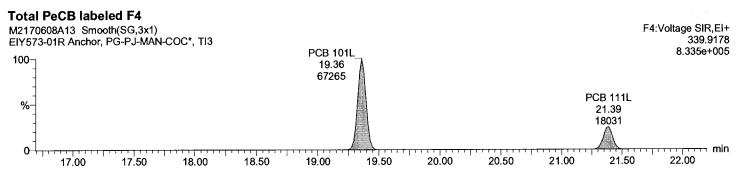
Vial: 13

Date: 09-Jun-2017 Time: 03:51:07 Instrument:









Dataset:

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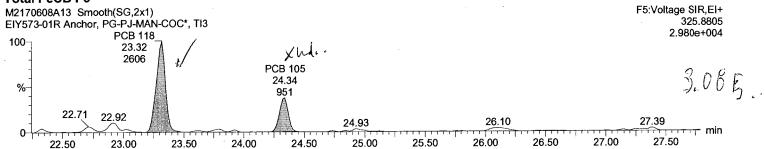
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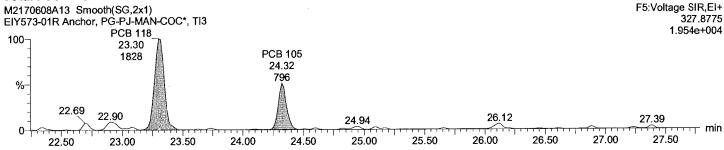
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Date: 09-Jun-2017 Time: 03:51:07 Instrument:

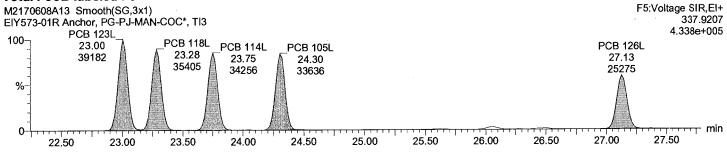




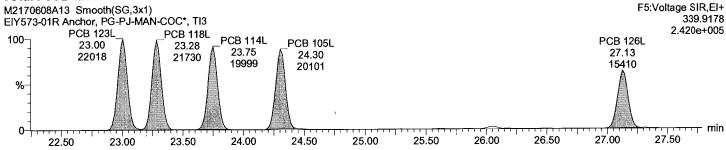
Total PeCB F5



Total PeCB labeled F5



Total PeCB labeled F5



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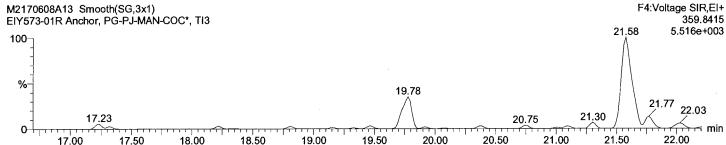
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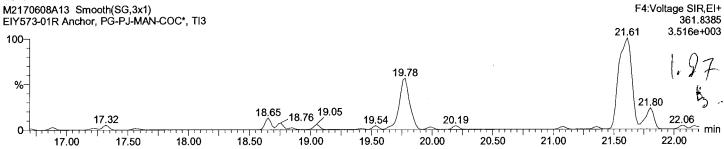
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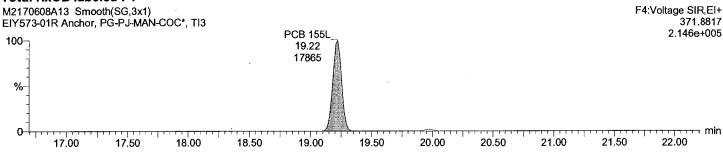




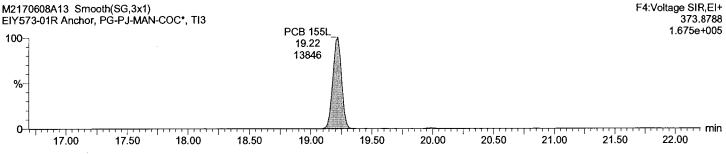
Total HxCB F4



Total HxCB labeled F4



Total HxCB labeled F4



Dataset:

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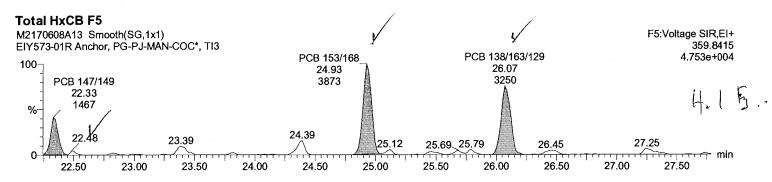
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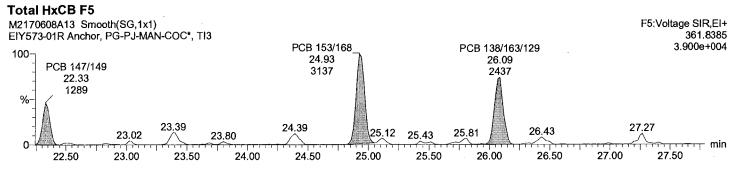
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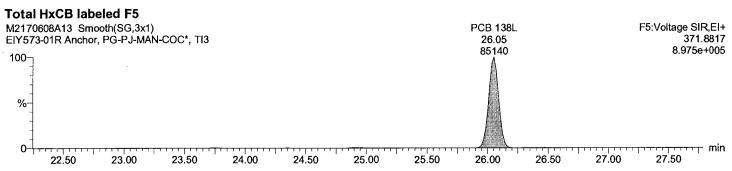
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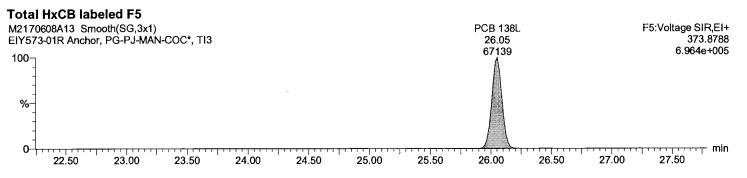
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Date: 09-Jun-2017 Time: 03:51:07 Instrument:









Dataset:

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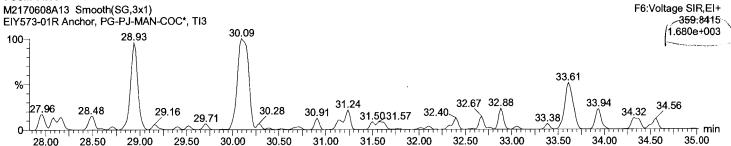
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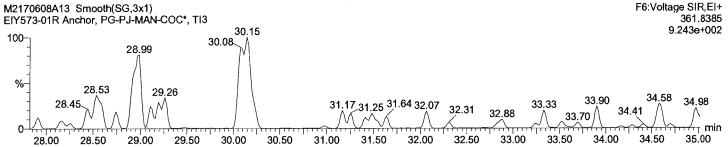
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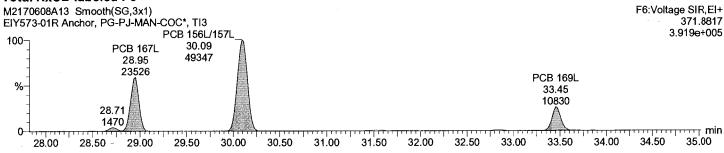




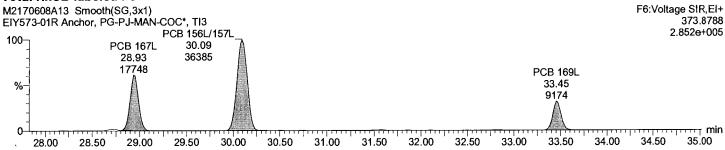
Total HxCB F6



Total HxCB labeled F6



Total HxCB labeled F6



F5 Voltage SIR,EI+

F5:Voltage SIR,EI+

F5:Voltage SIR,EI+

Acquired Date

Dataset:

C:\MassLynx\Default.pro\M2170608A \M2170608A sample_1668A.qid

Last Altered: Printed:

Friday, June 09, 2017 3:59:56 PM Friday, June 09, 2017 4:00:45 PM

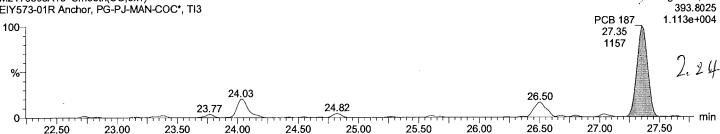
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Vial: 13

Date: 09-Jun-2017 Time: 03:51:07 Instrument:



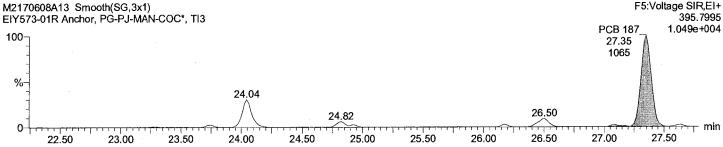
M2170608A13 Smooth(SG,3x1) EIY573-01R Anchor, PG-PJ-MAN-COC*, TI3





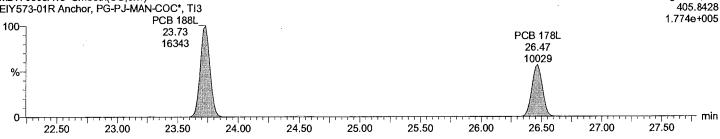
W

M2170608A13 Smooth(SG.3x1)



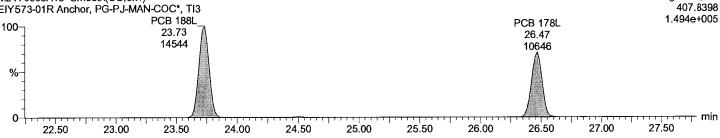
Total HpCB labeled F5

M2170608A13 Smooth(SG,3x1) EIY573-01R Anchor, PG-PJ-MAN-COC*, TI3



Total HpCB labeled F5

M2170608A13 Smooth(SG,3x1) EIY573-01R Anchor, PG-PJ-MAN-COC*, TI3



Dataset:

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Last Altered: Printed:

Friday, June 09, 2017 3:59:56 PM Friday, June 09, 2017 4:00:45 PM

Description: EIY573-01R

Vial: 13

Date: 09-Jun-2017 Time: 03:51:07 Instrument:



30.00



34.50

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35.00

L

33.00

33,42 33.58

34.00

33.50

32.85

32.50



28.00

_%_27,96

28.17

28.60

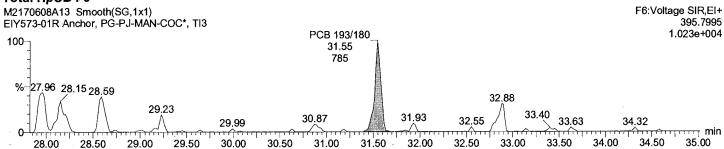
28.50

28.99

29.00

29.24

29.50



31.50

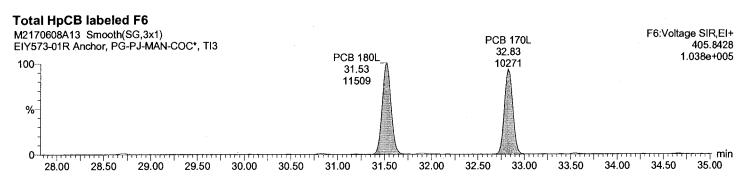
32.00

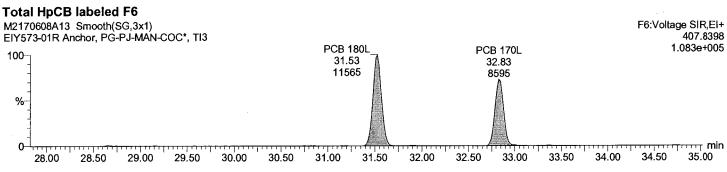
1169

30.89

31.00

30.50





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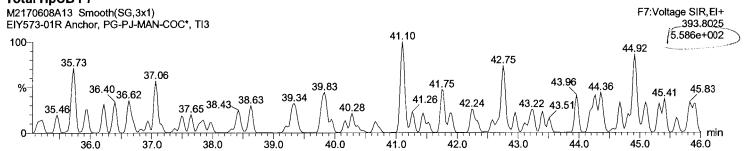
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Description: EIY573-01R

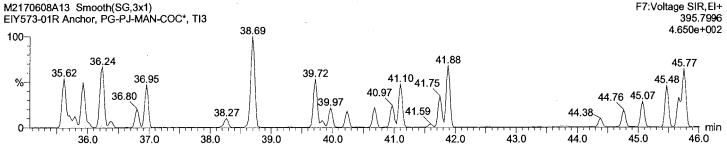
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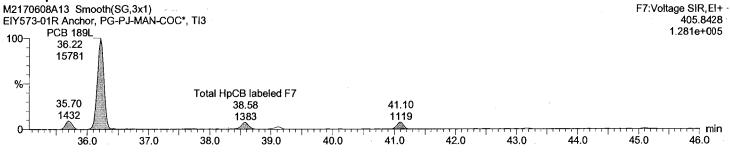




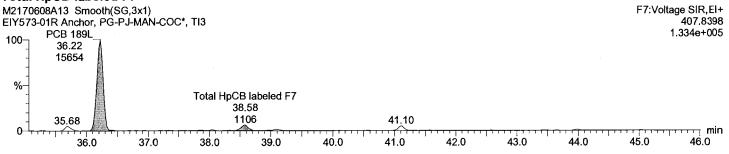
Total HpCB F7



Total HpCB labeled F7



Total HpCB labeled F7



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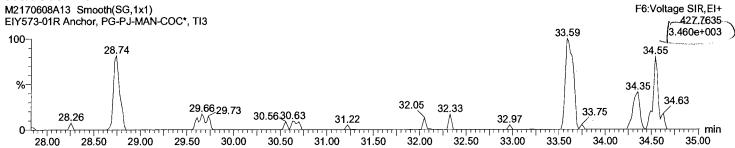
Friday, June 09, 2017 3:59:56 PM Friday, June 09, 2017 4:00:45 PM

Description: EIY573-01R

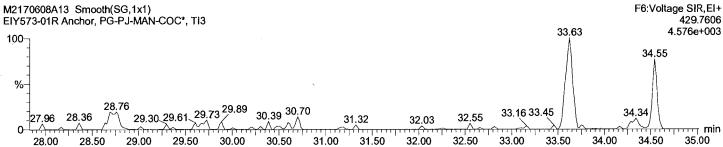
Vial: 13

Date: 09-Jun-2017 Time: 03:51:07 Instrument:

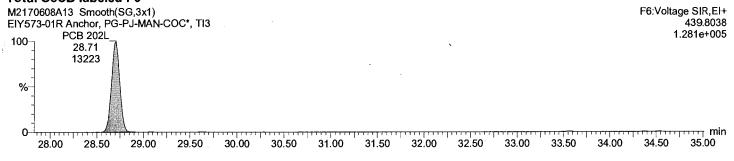




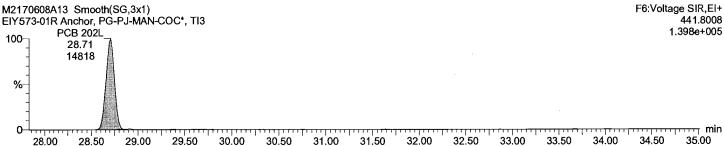
Total OcCB F6



Total OcCB labeled F6



Total OcCB labeled F6



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Friday, June 09, 2017 3:59:56 PM

Printed:

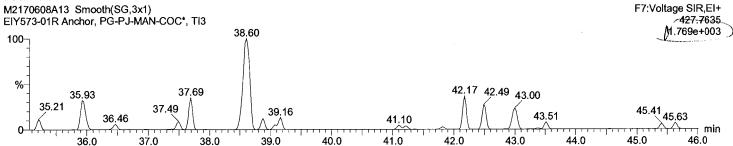
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Description: EIY573-01R

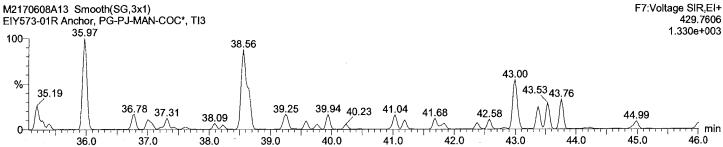
Vial: 13

Date: 09-Jun-2017 Time: 03:51:07 Instrument:

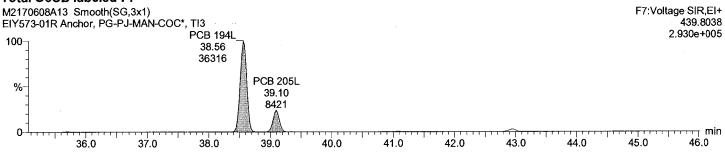




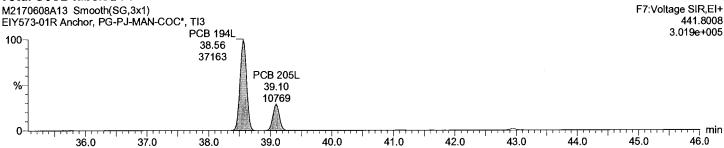




Total OcCB labeled F7



Total OcCB labeled F7



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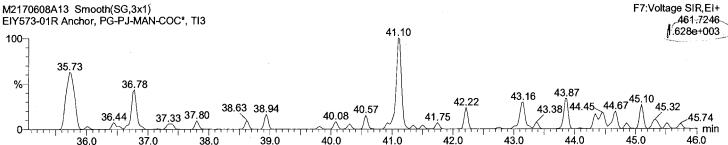
Friday, June 09, 2017 3:59:56 PM Friday, June 09, 2017 4:00:45 PM

Description: EIY573-01R

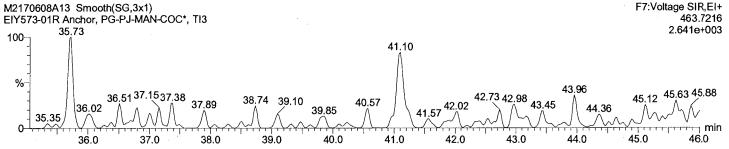
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Date: 09-Jun-2017 Time: 03:51:07 Instrument:

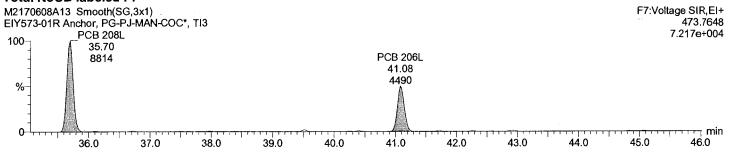




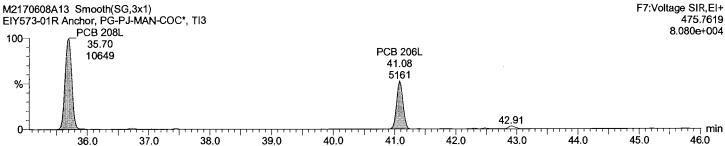
Total NoCB F7



Total NoCB labeled F7



Total NoCB labeled F7



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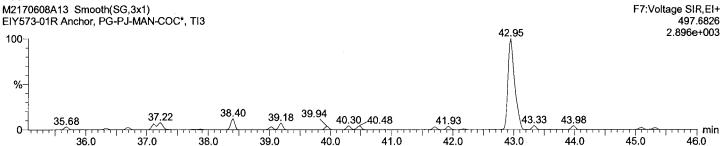
Friday, June 09, 2017 3:59:56 PM Friday, June 09, 2017 4:00:45 PM

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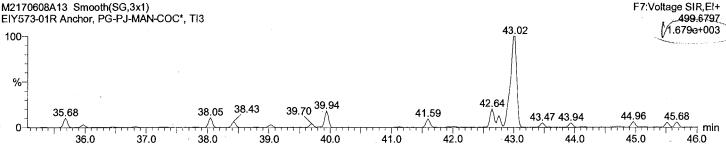
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Date: 09-Jun-2017 Time: 03:51:07 Instrument:

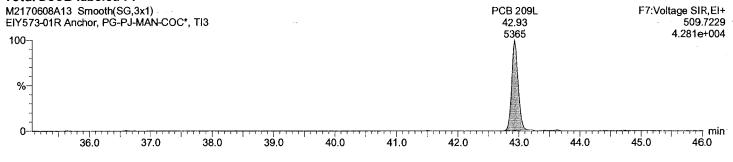




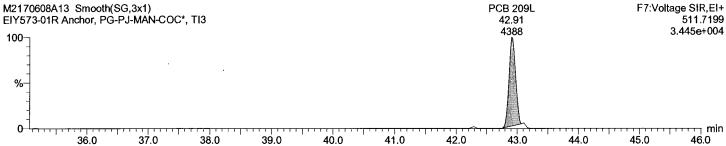
Total DeCB F7



Total DeCB labeled F7



Total DeCB labeled F7



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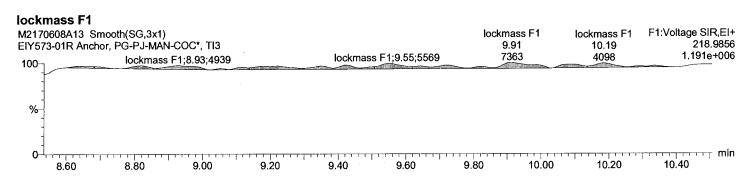
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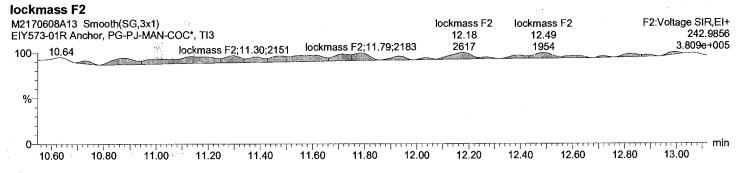
Friday, June 09, 2017 3:59:56 PM Friday, June 09, 2017 4:00:45 PM

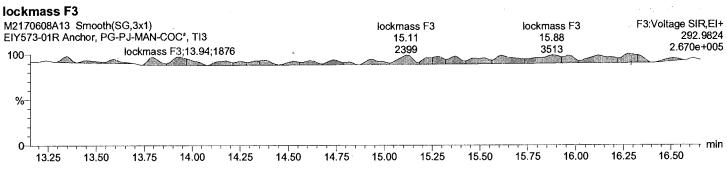
Description: EIY573-01R

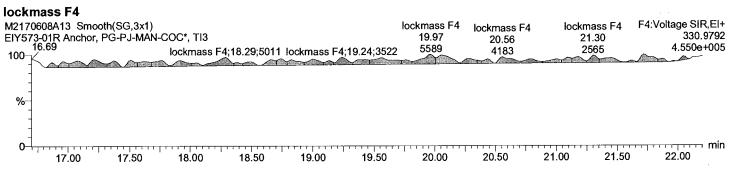
Vial: 13

Date: 09-Jun-2017 Time: 03:51:07 Instrument:









Dataset:

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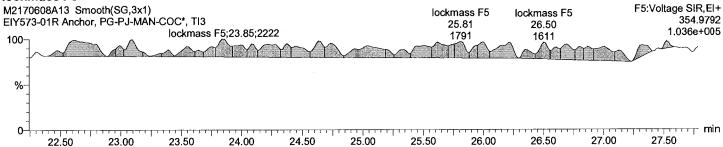
Friday, June 09, 2017 3:59:56 PM Friday, June 09, 2017 4:00:45 PM

Description: EIY573-01R

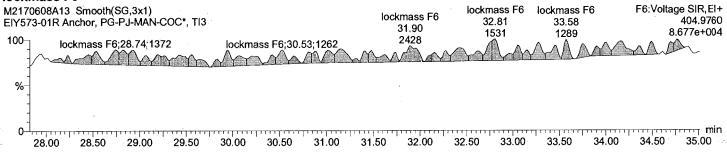
Vial: 13

Date: 09-Jun-2017 Time: 03:51:07 Instrument:

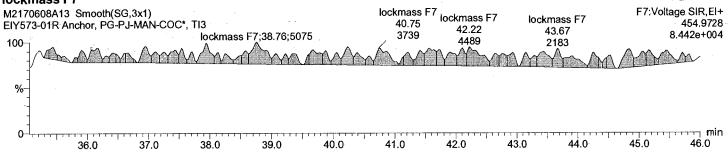


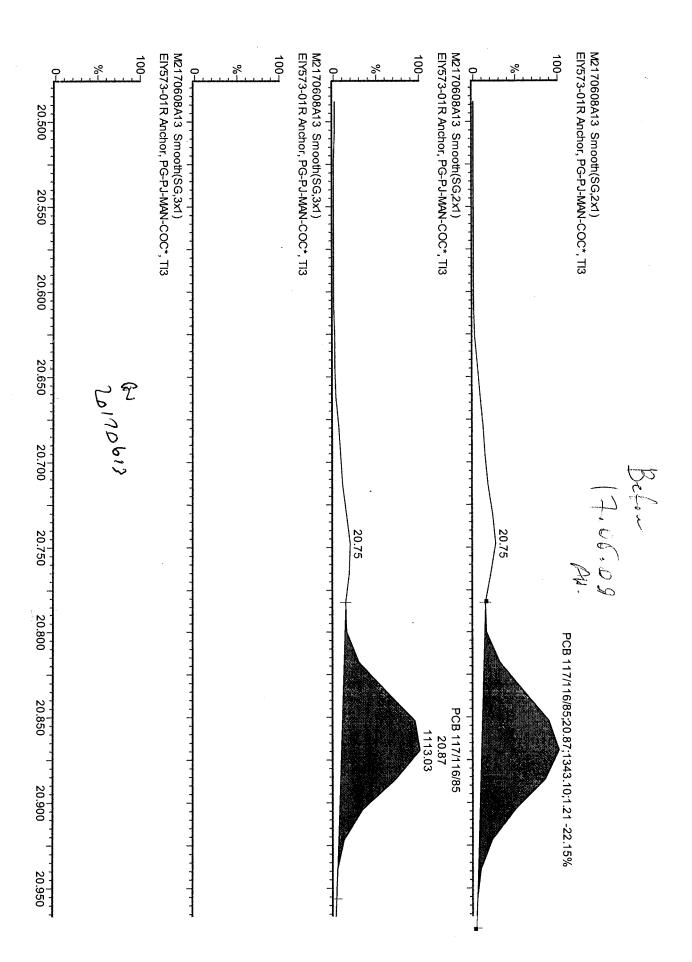


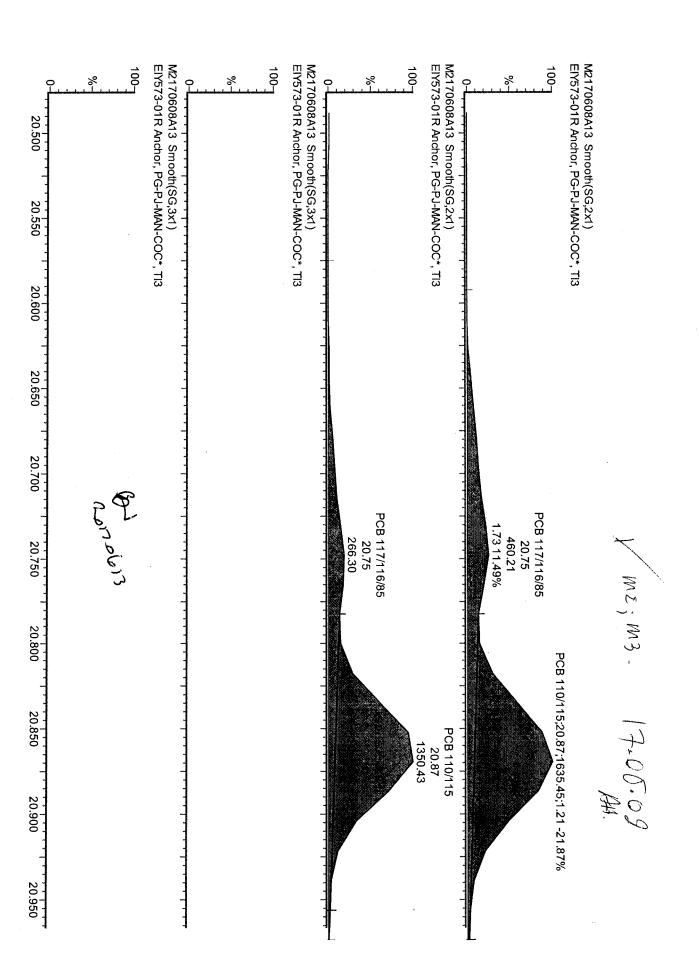
lockmass F6



lockmass F7







06/13/2017

Initials : (2)

Maxxam Analytics International Corporation

				0.002	63								
			Y=	=B	2	Q =	Ш	¥.	9=	#	īī	=A*E/(C*H*F)*I	=C*D*100/(B*E*G)
	Date : 2017/06/09 Time : 15:43:00		4.42E+03	3.10E+06	1.08E+06	11.11	4	1.047096	1.494658	10.048	1	0.0016	65
Maxxam ID #:EIY571-01, 5019849	Analyte: PCB -156/157 Injection Date : Instr. File Name : M1170609A07 Injection Time :	SAMPLE DATA: the following is applicable to all reported HRMS analyte calculations	Analyte Area (Primary + Secondary Ions) =	Recovery Standard Area (Primary + Secondary lons) =	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 (%) =

Analysis Type :[

Filename M1170609A07 Acquired 09/06/2017 15:43

Cali File PCB209_M1170609A

Sample ID EIY571-01R, reinj Comments Instrument File Ultima 1 Sample Size 10.048

Dil Fac 1.00

5X

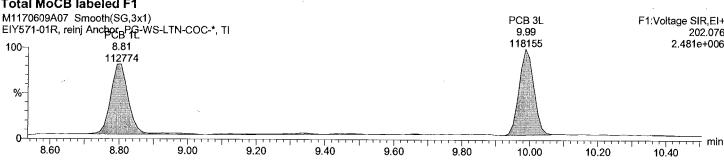
ample 3126 10.0			UII Fac	1.00											
Nam 1 PCB			mass	RT	Area	ratio			Code	Isomers	DL	S/N	Mod	rrf	Rec
2 PCB		MoCB		8.81 8.81	394 112	3.53 yes		0.000209	1		-0.000142901	4	yes	1.053	-
		MoCB		9.91 9.91	1033 299	3.46 yes	1332	0.000474	•		-0.000126662	11 10	yes	1.188	-
3 PCB		MoCB	188 190	10.00 10.00	600 222	2.7 yes	822	0.000321			-0.00014263	7	yes	1.055	-
4 PCB	4	DICB	222 224	NotFnd 10,12	:	í. no	•	-0.000485	3		-0.000484882	6	no	1.191	-
5 PCB	10	DICB	222 224	NotFnd 10.21	*	no	•	-0.000484	,		-0.000484475	:	no	1.192	
6 PCB	9		222	NotFnd 11.01	•	*	•	-0.000245			-0.000244955	:	no	1.471	-
7 PCB	7		222	NotFnd	:	no *	•	-0.000255	i		-0.00025465	٠.	по	1.415	_
8 PCB	6		222	11.09 NotFnd	:	no *	*	-0.000249			-0.000248675	*	по	1.449	
9 PCB	5		222	11.19 NotFnd	:	. no		-0.000297			-0.000297302	*			-
10 PCB	в		222	11.31 11.36	-2771	no 1.56	-4547.28	32 -0.001021	PCB 8 NDR			4 20	ho	1.212	•
11 PCB	14	DICB	224 222	11.37 NotFnd	-1776.282			-0.000248	1 00 0 11011		-0.000208611	30 27	хL	1.744	-
12 PCB	11	DICB :	224 222	12.03 12.42	+ 13736	no 1.56	20527				-0.000247649	*	no	1.455	•
13 PCB		DICE :		12.40	8791	yes	22527	0.006022			-0.000246295	123 109	yes	1.463	-
14 PCB		DICB 2	224	NotFnd 12.54		no		-0.000253			-0.000252863	•	no	1.425	-
		DICB 2		12.70 12.68	-2220 -1423.077	1.56 OK	-3643.07	7 -0.000961	PCB 15 NDR		-0.000376914	15 15	xL.	0.956	
15 PCB 1		TriCB 2	256 258	11.50 11.48	229 334	0.68 no	563	~0.000647			-0.000646684	*	yea	1.06	-
16 PCB :	30/18	TriCB 2	2 56 258	12.27 12.27	2823 2714	1.04 yes	5536	0.001707			-0.00065534	29	yes	1.046	-
17' PCB 1	7	TriCB 2	256 258	12.46 12.48	1233 884	1.39 no	2116	-0.000823			-0.000822911	25	no	0.833	-
18 PCB 2	:7	TriCB 2	256 258	12.56 12.56	472 407	1.16	879	-0.00056			-0.00055958	•	yes	1.225	-
19 PCB 2	4		56	NotFnd 12.61	*	yes •	•	-0.000618			-0.000617554	•	no	1.11	
20 PCB 1	6	2	56	12.68	1034	no 1.27	1848	-0.000931			-0.000931366		yes	0.736	
21 PCB 3	2		56	12.69 12.90	814 13 49	0.92	2808	0.000693			-0.000524874	11	no	1.306	
22 PCB 3	4		56	12.90 NotFnd	. 1459	yés *	*	-0.000246			-0.000245657	10			•
23 PCB 2	3	TriCB 2		13.48 NotFnd	:	по		-0.000253			-0.000253062	*	no	1.367	-
24 PCB 2	6/29	TriCB 2		13.56 13.70	-1297.92	no 1.04	-2545.92		PCB 26/29 NDR			*	no	1.327	•
25 PCB 2	5	TriCB 2:	58	13.72 13.82	-1248 82 4	OK 1.18	1521	0.000347	1 00 20/23 140/1		-0.000236655	10 7	хL	1.419	-
26 PCB 3	ı	TriCB 2	58	13.85 13.98	697 -6093.92	yes 1.04			505.044		-0.000237492	5 4	yes	1.414	-
27 PCB 28	3/20	TriC8 25	58	14.01 14.13	-4698 9598	OK	-9991.92		PCB 31 NDR		-0.000221805	41 35	хL	1.514	•
28 PCB 21		TriCB 28	56	14.16	9413	1.02 yes	19011	0.004329			-0.000237156	66. 65	no	1.416	-
29 PCB 22		TriCB 25	58	14.25 14.27	3419 2874	1,19 yes	6293	0.001412			-0.000233853	22 20	no	1.436	
		25 TriCB 25	i8 ·	14.46 14.47	2599 2422	1.07 yes	5021	0.00121			-0.000250981	16 17	yes	1.338	-
30 PCB 36		TriCB 25	58 ·	15.29 15.30	653 4 04	1.61 no	1057	-0.000208			-0.000206147		Op-O	1.629	-
31 PCB 39		25 TriCB 25		NotFnd 15.50		. +	*	-0.000229			-0.0002286		no	1.469	-
32 PCB 38		Z5 TriCB 25		NotFnd 15.91	*	to	*	-0.000233			-0.000232558	*	no	1.444	-
33 PCB 35		25 TrICB 25	6 1	16.12 16.10	408 378	1.08 yes	786	-0.000239			-0.000239354	•	yes	1.403	-
34 PCB 37		25 TriCB 25	6 1	16.35 16.36	2238 2317	0.97	4555	0.001035			-0.000353116	13	ho	0.951	
35 PCB 54		29 TCB 29	1 0	otFnd 2.82	2317	yes *	•	-0.000271			-0.000270692	15 *	no	1.071	_
36 PCB 53	50	29	0 1	3.84	-618	no 0.77	-1420.597	-0.000469	PCB 53/50 NDR		-0.000340693	6	xL	0.844	_
37 PCB 45	51	TCB 29:	0 1	3.86 4.22	-802.5974 1574	OK 0.67	391 3	0.001328			-0.000351093	6 11	yes	0.819	_
38 PCB 46		TCB 29:	0 1	4.21 4.36	2339 230	yes 0.61	607	-0.00042			-0.000419774	12			•
39 PCB 52		TCB 292	0 1	4.35 5.0 7	377 10684	no 0.75	24883	0.007829					yes	0.685	•
40 PCB 73		TCB 292 290	2 1	5.05 5 .19	14199 162	yes 0.42		-0.000244			-0.000325646	89 95	yes	0.883	-
41 PCB 43		TCB 292 290	2 1	5.14 lotFnd	381	no *					-0.000243889	*	yes	1.179	-
42 PCB 69/	49	TCB 292	1	5.21 5.34	4777	no 0.73		-0.000476			-0.000476068	•	no	0.604	-
43 PCB 48		TCB 292 290	2 1	5.34	6564	0.73 yes	11341	0.003343			-0.00030525	37 40	yes	0.942	-
44 PCB 44/	47/6¢	TCB 292	1:	5.52 5.50	1133 1540	0.74 yes	2673	0.00091			-0.000352384	9	yes	0.816	-
		TCB 292	18	5.67 5.64	14801 22058	0.67 yes		0.011342		-	0.000318433	114 120	yes	0.903	-
45 PCB 59/0	2415	290	. 16	5.86	775	0.66	1942	0.000494		-	0.000263561	4	yes	1.091	-

95 PCB 155	360 HxCB 362	NotFnd 19.26		•	•	-0.000177		-0.000177287	•	no	1.103	
96 PCB 152	360 HxCB 362	NotFnd	•	no *	•	-0.00023		-0.000229786	*	no	0.851	-
97 PCB 150	360	19.40 NotFnd		no *	•	-0.00027		-0.000270093	•	no	0.724	-
98 PCB 136	HxCB 362 360	19.53 19.80	2436	no 1.16	4542	0.002429		-0.000248472	19	no	0.787	
99 PCB 145	HxCB 362 360	19.78 NotFnd	2106	yes *		-0.000266		-0.000266414	22	no	0.734	-
100 PCB 148	HxCB 362 360	20.03 NotFnd		no •	•	-0.000323		-0.000323219	*	no	0.605	
101 PCB 151/135	HxCB 362 360	21.13 21.63	6788	no 1.1	12954	0.009359		-0.000335416	* 41	yes	0.583	
102 PCB 154	HxCB 362 360	21.61 21.82	6166 -719.2	yes 1.24	-1299.2	-0.000793	PCB 154 NDR	-0.000291427	48 7	xL	0.671	
103 PCB 144	HxCB 362 360	21.82 22.08	-580 859	OK 1.13	1621	0.001101		-0.000315399	6	yes	0.62	_
104 PCB 147/149	HxCB 362 360	22.07 22.38	762 2405 5	yes 1.21	43980	0.023702		-0.00042929	8 185		0.761	-
105 PCB 134/143	HxCB 362 360	22.36 22.55	19925 -1103.6	yes 1.24	-1993.6	-0.001204	PCB 134/143 NDR	-0.000494507	187 10	yes		•
106 PCB 139/140	HxCB 362 360	22.61 22.86	-890 -883,24	OK 1.24	-1234.24	-0.000639			8	xL.	0.678	•
107 PCB 131	HxCB 362 360	22.88	-551	oĸ			PCB 139/140 NDR	-0.000423863	11 5	xl.	0.791	•
	HxCB 362	23.04 23.05	345 259	1.33 yes	604	-0.00054		-0.000539896		yes	0.621	-
108 PCB 142	360 HxCB 362	NotFnd 23.19	•	no		-0.000482		-0.000482411	:	no	0.695	-
109 PCB 132	360 HxCB 362	23.43 23.44	6272 4494	1.4 yes	10766	0.006671		-0.000493778	45 41	по	0.679	-
110 PCB 133	380 HxCB 362	23.85 23.86	-694 -559.6774	1.24 OK	-1253.677	-0.000682	PCB 133 NDR	-0.000445845	6 7	xL	0.752	-
111 PCB 165	360 HxCB 362	NotFnd 24.21	•	rio	•	-0.000351		-0.000351074	•	.no	0.955	-
112 PCB 146	360 HxCB 362	24.42 24.41	7 541 5896	1.28 yes	13437	0.006416		-0.000380131	53 54	no	0.882	-
113 PCB 161	360 HxCB 362	NotFnd 24.53		no	•	-0.000331		-0.0003313	*	no	1.012	-
114 PCB 153/168	360 HxCB 362	24.98 24.99	48414 36862	1.32 yes	85076	0.036824		-0.000344579	317	no	0.973	-
115 PGB 141	360 HxCB 362	25.15	2401	1.17	4460	0.002556		-0.000456779	303 17	no	0.734	
116 PCB 130	. 360	25.14 25.51	2058 2202	yes 1.21	4026	0.002409		-0.000476244	20 16	yes	0.704	-
117 PCB 137	HxCB 362 360	25.51 25.70	1824 177	yes 0.69	434	-0.000492		-0.000491606	15	уев	0.682	_
118 PCB 164	HxCB 362 360	25.75 25.82	257 3742	no 1.27	6681	0.002619		-0.000312175	20	yes	1.074	
119 PCB 138/163/129		.25.83 26.12	2939 38926	yes 1,19	71767	0.036455		-0.000404434	18 260	yes	0.829	
120 PCB 160	HxCB 362 360	26.15 NotFrid	32841	yes *	•	-0.000364	All All Tall Color Color	-0.00036443	250	no	0.92	_
121 PCB 158- «1	HxCB 362 360	26.30 26.50	- 3 139.68	no 1.24	-5671.68	-0.002134	PCB 158 NDR	-0.000308158	30	x!	1.088	
122 PCB 128/166	HxCB 362 360	26.47 27.31	-2532 5083	OK 1.15	9512	0.004486	-	-0.000375449	22 31	yes	0.893	_
123 PCB 159	HxCB 362 360	27.31 NotFnd	4428	yes *	.•	-0.000167	-	-0.000166948	32	no	1.209	
124 PCB 162	HxCB 362 360	28.27 NotFnd		no *	*	-0.000167		-0.000167363	*	no	1.206	-
125 PCB 167	HxCB 362 360	28.53 29.03	* -1209	no 1.24	-2184	-0.000719	PCB 167 NDR	-0.000182992	12	-	-	
126 PGB 156/157	HxCB 362 360	29.02 30.15	-975 2379	OK 1.17	4416	0.001551	o J		12	xJ_	1.103	•
127 PCB 169	HxCB 362 360	30.18 NotFnd	2036	yes	*		M	-0.00019278	18 18	yes	1.047	-
128 PCB 168	HxCB 362	33,56		Гю	-	-0.000194		-0.000194077	•	no	1.04	-
	394 HpCB 396	NotFnd 23.79		no		-0.00023	and the second	-0.000230022		no .	1.069	-
129 PCB 179	394 HpCB 396	24.08 24.07	3447 3534	0.98 yes	6981	0.002903		-0.000220929	24 24	no	1.113	•
130 PCB 184	394 HpCB 398	NotFnd 24.55	:	no	•	-0.00023		-0.000230238		no	1.068	-
131 PCB 176	394 HpCB 396	24.87 24.86	-701 -667.619	1.05 OK	-1368.619	-0.000608	PCB 176 NDR	-0.000235 7 56	5 8	xŁ.	1.043	-
132 PCB 188	394 HpCB 396	NotFnd 25.26	*	no	4	-0.00025		-0.000249892		no	0.984	•
133 PCB 178	394 HpCB 396	26.55 26.54	2239 2245	1 yes	4485	0.002716		-0.000321851	13 16	по	0.764	-
134 PCB 175	394 HpCB 396	27.10 27.14	-400.05 -381	1.05 OK	-781.05	-0.000445	PCB 175 NDR	-0.000302452	3	xL	0.813	-
135 PCB 187	394 HpCB 396	27.40 27.37	10917 9273	1.18 yes	20130	0.011365		-0.000298777	64 62	no	0.823	-
136 PCB 182	394 HpCB 396	NotFnd 27.59	•	no	•	-0.000309		-0.000308912		no	0.796	-
137 PCB 183	394 HpCB 396	28.01 27.99	4551 4270	1.07 yes	8820	0.003843		-0.000406932	28	yes	1.063	-
138 PCB 185	394 HpCB 396	NotFnd 28.08	*	*	•	-0.000528		-0.000527523	26	no	0.82	-
139 PCB 174	394 HpCB 396	28.23 28.24	4237	0.97	8621	0.0044		-0.000476923	23	yes	0.907	-
140 PCB 177	394	28.65	4384 -4348.05	1.05	-8489.05	-0.004414	PCB 177 NDR	-0.000485487	30 31	xL	0.891	-
141 PCB 181	HpCB 396 394	28.65 NotFnd	-4141 *	ok •	*	-0.000481		-0.000480632	26	no	0.9	-
142 PCB 171/173	HpCB 396 394	29.06 29.29	-1329	1.05	-2594.714	-0.001375	PCB 171/173 NDR	-0.00049493	8	хL	0.874	-
143 PCB 172	HpCB 396 394	29,28 30,92	-1265.714 404	OK 1.18	747	-0.000479		-0.000479038	11	yes	0.903	-
144 PCB 192	HpCB 396 394	30.93 NotFnd	342	yes *	•	-0.000393		-0.000392888	*	no	1.101	-

145 PCB 193/180	HpCB 396 394	31.24 31.62	8639	no 1.15	16134	0.00717		-0.000373871	46	yes	1.157	
146 PCB 191	HpCB 396 394	31.59 NotFnd	7496 *	yes *		-0.000351		-0.000350542	37	no	1.234	_
147 PCB 170	HpCB 396 394	31.97 32.92	3079	no 1.18	5683	0.003098		-0.000369402	17	yes	1.171	_
148 PCB 190	HpCB 396 394	32.94 33.48	2604 842	yes 1.08	1624	0.000603		-0.000346888	15 4	yes	1.247	_
149 PCB 189	HpCB 396 394	33.50 36.33	783 300	yes 1.23	544	-0.000616		-0.000615939	5		0.922	_
150 PCB 202	HpCB 396 428	36.32 28.80	243 -607	no 0.89		-0.000531	PCB 202 NDR	-0.000105212	14	yes	1.031	
151 PCB 201	OcCB 430 428	28.78 NotFnd	-682.0225	ok.	-1203.022	-0.000331	P CB 202 NDR		15			A (O.T.) A (O.T.)
	OcCB 430	29.70		no				-0.000100625		no	1.078	84.6
152 PCB 204	428 OcCB 430	NotFnd 30.39		no		-0.000102		-0.000102333		no	1.06	
153 PCB 197	428 OcCB 430	NotFnd 30.62		no .		-0.0001		-0.000100253		no	1.082	
154 PCB 200	428 OcCB 430	NotFnd 30.74		no		-0.000107		-0.000106765		no	1.016	-
155 PCB 198/199	428 OcCB 430	33.67 33.67	873 960	0,91 yes	1833	0.004002		-0.000139605	20 20	yes	0.777	
156 PCB 196	428 OcCB 430	34.39 34.39	-314 -352,809	0,89 OK	-666.809	-0.000435	PCB 196 NDR	-0.000132446	9	xL	0.819	
157 PCB 203	428 OcCB 430	34.64 34.58	-415,63 -467	0.89 OK	-882.63	-0.000571	PCB 203 NDR	-0.000131483	10 9	ХL	0.825	
158 PCB 195	428 OcCB 430	36.04 36.03	218 266	0.82 no	485	-0.000255		-0.000255194	•	Ор-О	0.931	
159 PCB 194	428 OcCB 430	38.65 38.65	-340 -382.0225	0.89	-7 22.0225	-0.000401	PCB 194 NDR	-0.00024697	4-	ХL	0.962	
160 PCB 205	428	NotFnd	-362,0223	oĸ		-0.00024		-0.000239501	4	no	0.992	
161 PCB 208	OcCB 430 462	39.20 35.80	2021	по 0.77	4644	0.002897		-0.000892399	8	no	1.042	1601.P
162 PCB 207	NoCB 464 462	35.81 36.84	2623 420	yes 0.44	1376	-0.000757		-0.000757231	7	Ор-О	1.228	_
163 PCB 206	NoCB 464 462	36.85 41.17	956 1345	no 0.72	3201	0.003825		-0.000914337	4	yes	1.017	_
164 PCB 209	NoCB 464 498	41.17 43.04	1856 1974	yes 1.11	3753	0.005208		-0.000599314	6 21	no	1.026	_
165 PCB 1L	DCB 500 200	43.09 8.81	1779 344801	yes 3.06	457575	0.085137		0.001	17 2987	по	0.997	43
166 PCB 3L ::	202 200	8.82 9.99	112774 3 65348	yes 3.09	483503	0.085408		0.001	104 3466	no	1.05	- 43
167 PCB 4L	202 234	9.99 10.11	118155 140757	yes 1.57	230167	0.091952		0.001	128 419	no	0,464	46
168 PCB 15L	236 234	10.10 12.68	89410 480234	уев 1.56	787936	0.125172		0	1038 852	no	1.168	63
169 PCB 19L	236 268	12.69 11.48	307702 161187	yes 1.06	313367	0.108497		0.001	1635			
170 PCB 37L :	270 268	11.47	152180	yes					175 313	no	0.536	55
	270	16.35 16.35	466494 455106	1.03 yes	921599	0.164553		0.001	539 548	no	1.848	.83
171 PCB 54L	30 2 304	12.82 12.82	132264 169117	0.78 yes	301381	0.123966		0	581 1456	no	0.802	62
172 PCB 81L	302 304	20.97 20.97	408999 509304	0.8 yes	918303	0.189664		0	1165 2445	no	1.597	95
173 PCB 77L	302 304	21.42 21.42	409832 520223	0.79 yes	930054	0.190929		0	1154 244 7	по	1.607	96
174 PCB 104L	338 340	15.62 15.64	258201 161888	1.59 yes	420089	0.169976		.0	8976 5015	130	0.912	85
175 PCB 123L	338 340	23.04 23.02	5 32560 336544	1.58 yes	869104	0.202775		0	2180 1464	по	1.581	102
176 PCB 118L	338 340	23.31 23.31	505543 326655	1.55 yes	832198	0.203323		0	2038 1367	ħο	1.51	102
177 PCB 114L	338 340	23.80 23.78	487610 310101	1.57 yes	797711	0.20001		0	1944 1281	no	1.471	100
178 PCB 105L	338 340	24.35 24.34	505009 . 311729	1,62 yes	816738	0.202409		0	2009 1294	no	1.488	102
179 PCB 126L	338 340	27.19 27.15	365143 235202	1.55 ves	600345	0.15371		0	1346 905	no	1.44	77
180 PCB 155L	372 374	19.24 19.26	300342 237509	1.26 yes	537851	0.190017		0	9713 2269	no	1.01	95
181 PCB 167L	372 374	28.99 29.00	307975 243579	1.26	551554	0.138246		0	1780	no -	1.424	69 -
182 PCB 156L/157L	372 374	30.15 30.14	609789	yes 1.29	1082702	0.258567		- 0	1574 2925	no	1.495	65
183 PCB 169L	372	33.53	472913 144541	yes 1.25	260532	0.061269		0	2532 785	no	1.518	31
184 PCB 188L	374 406	33.54 23.76	115992 31 0399	yes 1.07	599935	0.187438		0	696 5089	no	1.142	94
185 PCB 180L	408 406	23.78 31.59	289536 199108	yes 1.06	387088	0.28831		0.001	6919 10 7 5	no	1.343	145
186 PCB 170L	408 406	31.58 32.90	187980 1603 77	yes 1.06	311932	0.273325		0.001	1761 846	no	1.141	137
187 PCB 189L	408 406	32.89 36.29	151555 214230	yes 1.04	420748	0.218817		0.001	1342 601	no	1.923	110
188 PCB 202L	408 440	36.29 28.75	206519 53589	yes 0.92	111883	0.194329		0	1275 1435	no	1.353	98
189 PCB 205L	442 440	28.76 39.19	58294 129290	yes 0.87	278423	0.195555		0.001	1539 1173	no	1.424	98
190 PCB 208L	442 474	39.19 35.78	149133 136654	yes 0.81	306217	0.233897		0	1042 1625	no	1.309	118
191 PCB 206L	476 474	35.79 41.17	169563 70536	yes 0.76		0.177417		0.001	2601 780	no	0.924	89
192 PCB 209L	476 510	41.20 43.04	93293 7 3721	yes 1.12	139751	0.168731		0.001	1289 5089	no	0.828	85
193 PCB 28L	512 268	43.06 14.11	66031 490694	yes 1	980650	0.164313			1148			
PCB Cleanup Sta		14.13	489956	yes	300030	v.104313		0.001	621 6 62	no	1.969	74

Maxxam Analytics

194 PCB 111L	338	21.41	476840	1.62	771795	0.207333		0	6266	no	1.373	94
PCB Cleanup Standard	340	21.40	294955	yes					5178			
195 PCB 178L	406	26.51	213891	1.03	421958	0.205663		0	3280	no	0.732	93
PCB Cleanup Standard	408	26.52	208066	yes					4735			
196 PCB 31L	268	13.89	1201	1.12	2275	0.0004		0.001	1	no	1.878	0
PCB Audit Standard	270	13.98	1075	yes					2			
197 PCB 95L	338	NotFnd	•		*			0		no	0.916	
PCB Audit Standard	340	17.38	•	no								
198 PCB 153L	372	24.96	8384	1.29	14892	0.004533		0	82	no	1.173	2
PCB Audit Standard	374	24.98	6508	yes					121			
199 PCB 9L	234	10.99	3642599	1.57	5959088	14.5525		-	7180	no		-
PCB Recovery Standard	236	11.00	2316489	yes					13558			
200 PCB 52L	302	15.07	1486119	0.8	3351607	14.52077		-	4973	no	_	_
PCB Recovery Standard	304	15.05	1865488	yes					14014			
	338	19.38	1847468	1.61	2998033	14.22262		-	26325	no	-	-
PCB Recovery Standard	340	19.36	1150565	yes					21995			
	372	26.10	1727650	1.26	3097716	14.25601		-	17994	no	-	-
PCB Recovery Standard	374	26.07	1370066	yes					23944			
	440	38.65	524152	0.9	1105616	6.392271		_	4802	no	-	-
PCB Recovery Standard	442	38.59	581464	yes					4100			
Chlorobiphenyls						0.001004	3	-0.000142901				
Dichloroblphenyls						0.006022	· 1	-0.000464882				
Trichlorobiphenyls						0.010733	7	-0.000931366				
Tetrachlorobiphenyls						0.046579	13	-0.000476068				
Pentachlorobiphenyls						0.05113	11	-0.00051189				
Hexachiorobiphenyls						0.136578	13	-0.000539896				
Heptachlorobiphenyls		1				0.036098	8	-0.000615939				
Octachlorobiphenyls						0.004002	1	-0.000255194				
Nonachlorobiphenyls						0.006722	2	-0.000914337				
Decachlorobiphenyl						0.005208	1	-0.000599314				
PCB (total)						0.304076						-
r CD (Wal)						0.504010						



10.80

10.60

11.00

100

PCB 19L

11.46 152180

11.40

11.60

11.80

12.00

12.20

12.40

12.60

11.20

13.00

12,80

2.035e+006

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Last Altered: Printed:

June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time



Vial: 7

Date: 09-Jun-2017 Time: 15:43:01 Instrument:



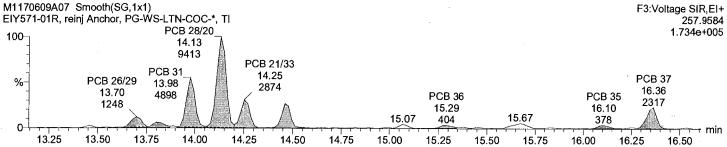
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16.25

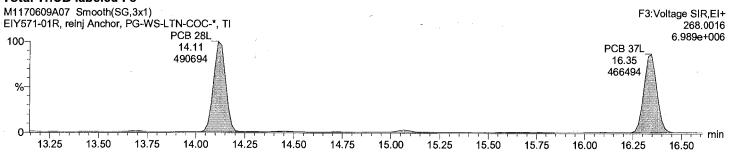
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h=2,777E3 **Total TriCB F3** M1170609A07 Smooth(SG,1x1) F3:Voltage SIR,EI+ EIY571-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 255.9614 PCB 28/20 1.848e+005 51NL2,5 100 14.13 95982 PCB 21/33 14.25 **PCB 37** % PCB 26/29 3419 PCB 36 16.35 13.70 1593 15.29 2238 15.07 653 15.65 min 13.25 13.50 13.75 14.00 14.50 15.25 14.25 14.75 15.00 15.50 15.75

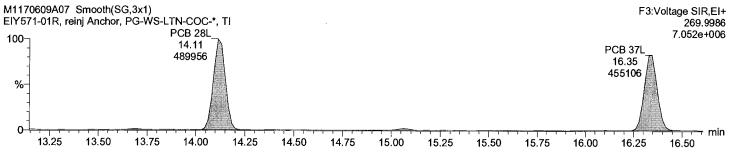
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



Quantify Sample Report MassLynx 4.0 SP1 Page 75 of 115 **Acquired Date** Dataset: C:\MassLynx\Default.pro\QLD\M1170609A sample 1668A.gld Last Altered: June 12, 2017 12:46:14 PM Eastern Daylight Time Printed: June 12, 2017 12:54:14 PM Eastern Daylight Time Description: EIY571-01R, reinj Vial: 7 Date: 09-Jun-2017 Time: 15:43:01 Instrument: h=1025 E3 **Total TeCB F2** M1170609A07 Smooth(SG,3x1) F2:Voltage SIR,EI+ EIY571-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 289.9224 11.93 1.025e+003 100 11.06 11.38 12,03 11.64 13.05 10.61 10,77 10,87 12.70 % 12.23 12.37 12.48 → → min 10.60 10.80 11.00 11.40 11.20 11,60 11.80 12.00 12.20 12.40 12.60 12.80 13.00 **Total TeCB F2** M1170609A07 Smooth(SG,3x1) F2:Voltage SIR,EI+ EIY571-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 291.9194 11.26 4.422e+003 100-12.62 % 11.14 11.68 12.48 10,63 10.73 10,85 10,97 12.74 13.02 11.99 12.11 11.50 11.87 12.23 0 min 11.60 10.60 10.80 11.00 11.20 11.40 11.80 12.00 12.20 12.40 12.60 12.80 13.00 **Total TeCB labeled F2** M1170609A07 Smooth(SG,3x1) F2:Voltage SIR,EI+ EIY571-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 301.9626 PCB 54L 1.789e+006 100-12.82 132264 % min דייי 10.60 10.80 11.00 11.20 11.40 11.60 11.80 12.00 12.20 -12.40 12.60 12.80 13.00 Total TeCB labeled F2 M1170609A07 Smooth(SG,3x1) F2:Voltage SIR,EI+ EIY571-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 303.9597 PCB 54L 2.307e+006 100 12.82 169117 % 0 min 🎞 11,40 10.60 10.80 11.00 11.20 11.60 11.80 12.00 12.20 12.40 12.60 12.80 13.00

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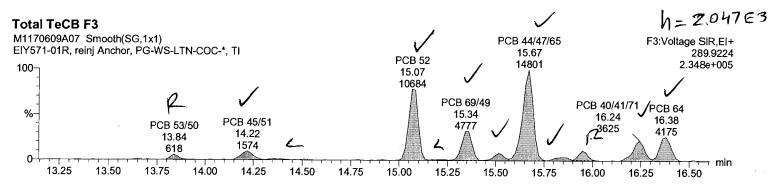
June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time

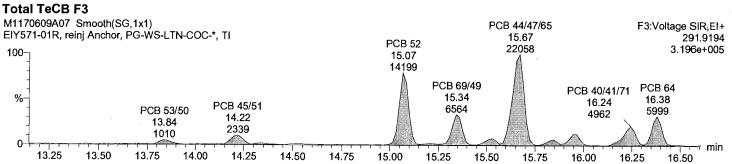


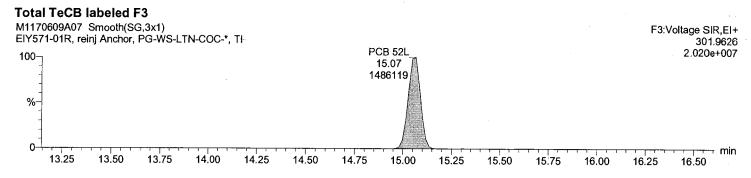
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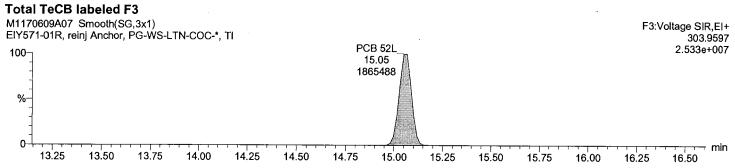
Date: 09-Jun-2017 Time: 15:43:01 Instrument:

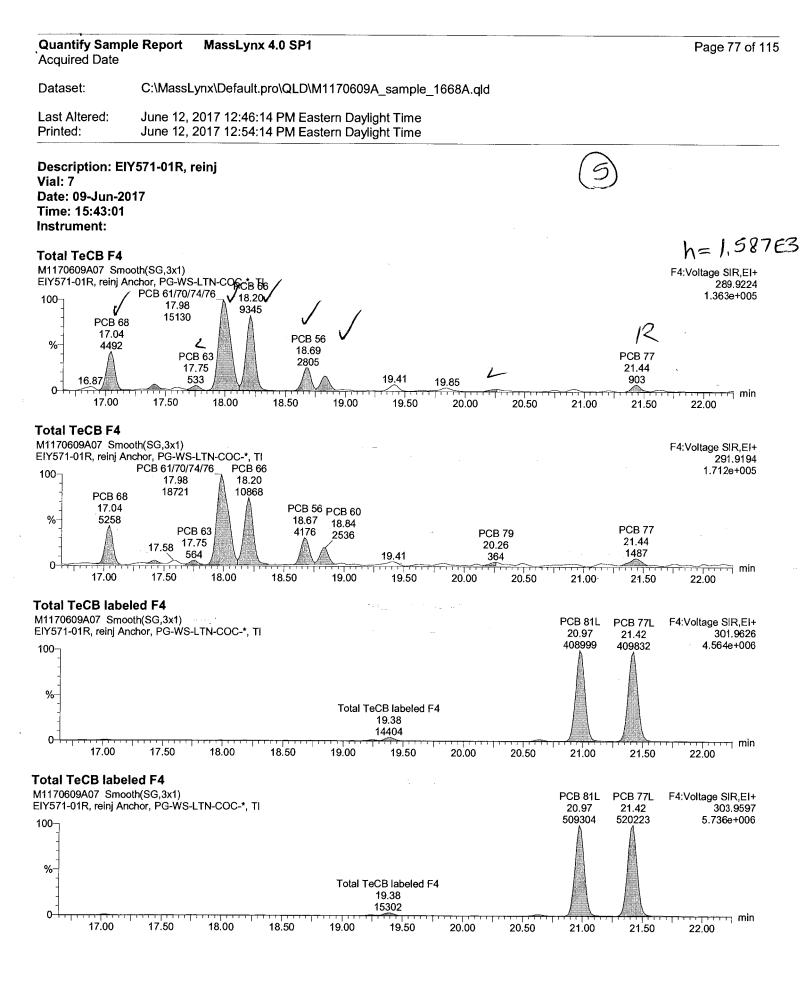












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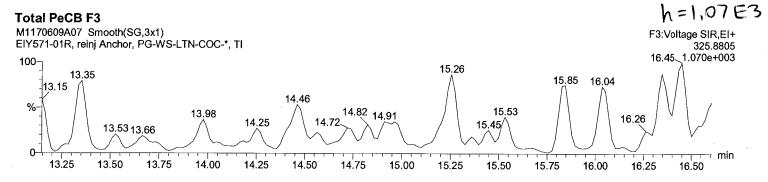
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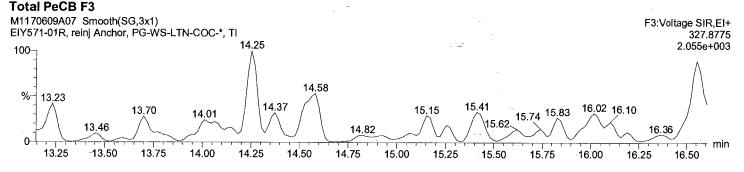
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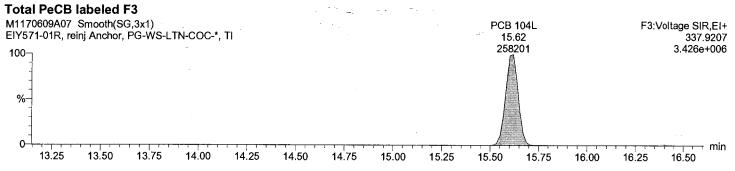
Description: EIY571-01R, reinj

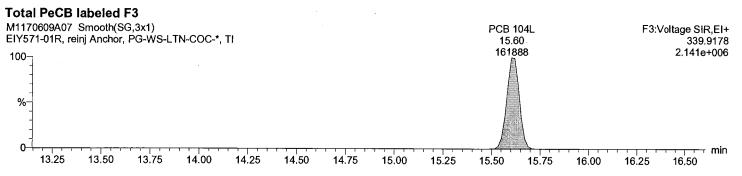
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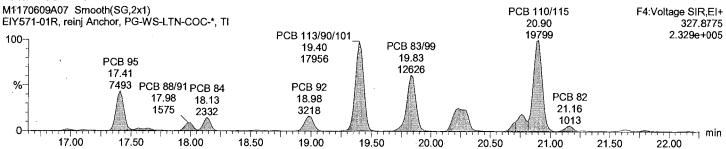
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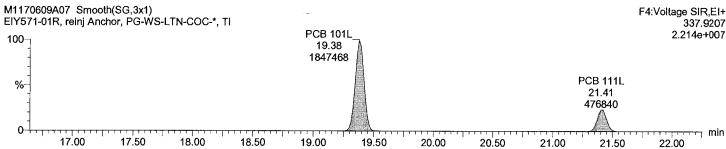


h=1,055E3 **Total PeCB F4** M1170609A07 Smooth(SG,2x1) F4:Voltage SIR,EI+ PCB 110/115 EIY571-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 325.8805 20.90 PCB 113/90/101 3.080e+005 100 PCB 83/99 24887 PCB 95 19.40 19.83 24670 17.41 17752 13505 % PCB 88/91 PCB 84 PCB 92 **PCB 82** 17.98 18.98 18.15 2185 21.16 4029 3290 1439 min 17,00 17.50 18.00 18.50 19.00 19.50 20.00 20.50 21.00 21.50 22.00

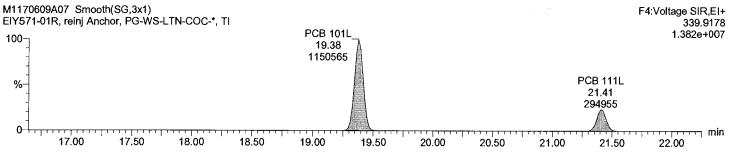
Total PeCB F4



Total PeCB labeled F4



Total PeCB labeled F4



23.00

23.50

24.00

24.50

25.00

25.50

22,50

0

27.50

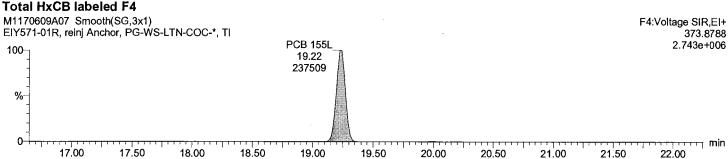
🗝 min

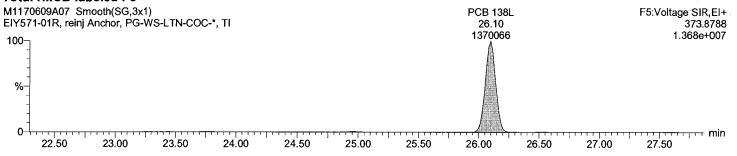
26.12 17188

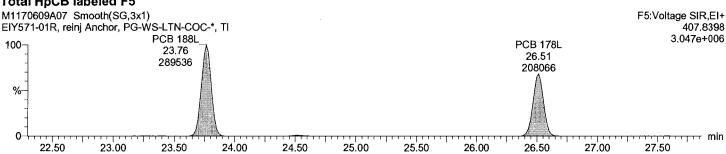
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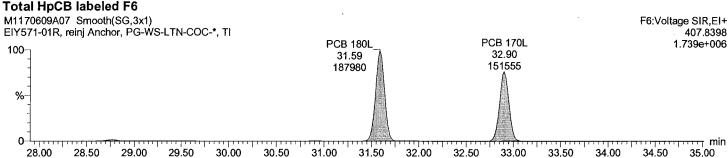
27.00

26.00









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Dataset:

Acquired Date

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Last Altered:

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June 12, 2017 12:54:14 PM Eastern Daylight Time

Description: EIY571-01R, reinj

Vial: 7

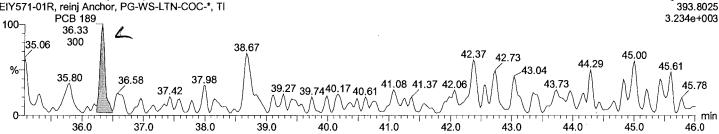
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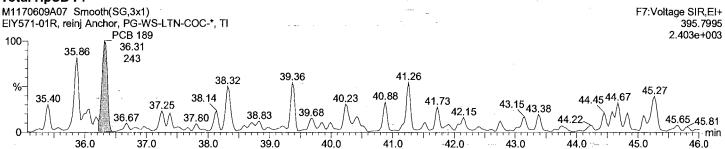
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F7:Voltage SIR,EI+

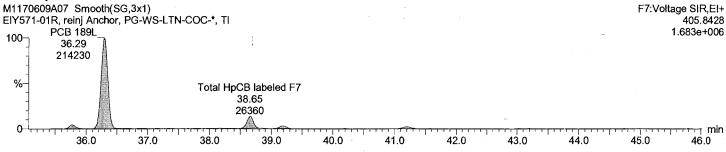
Total HpCB F7
M1170609A07 Smooth(SG,3x1)
EIY571-01R, reinj Anchor, PG-WS-LTN-COC-*, TI



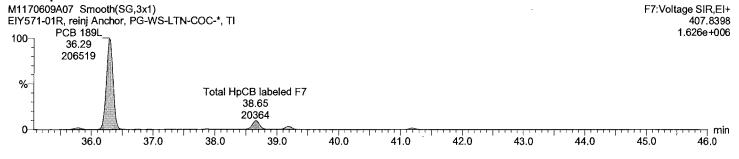


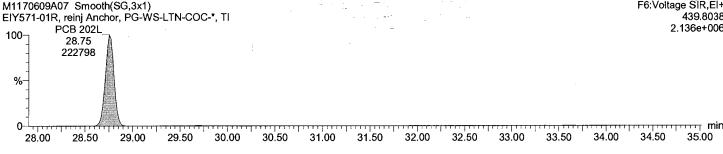


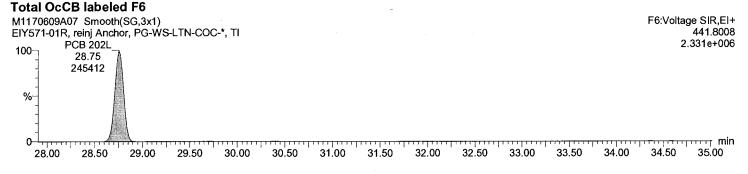


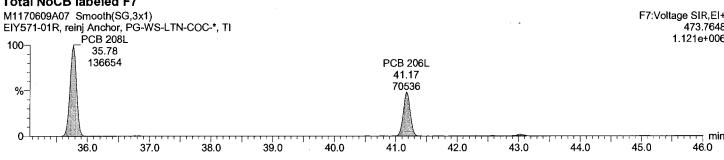


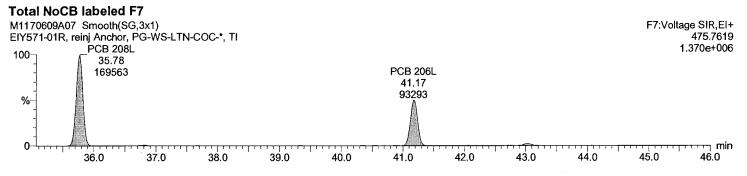
Total HpCB labeled F7

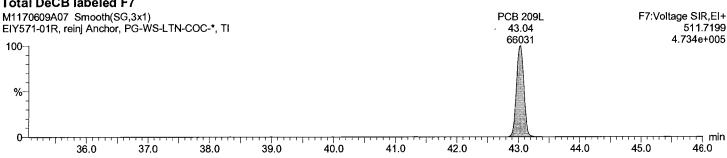


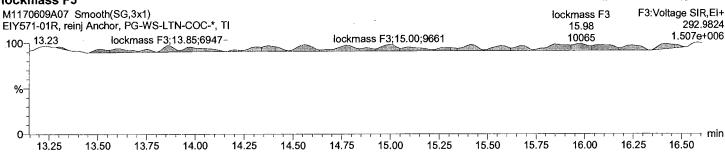


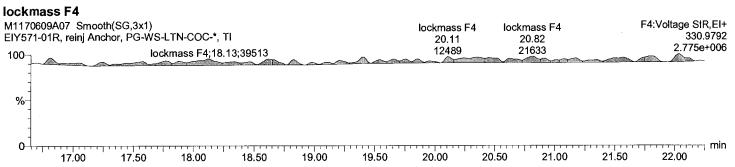












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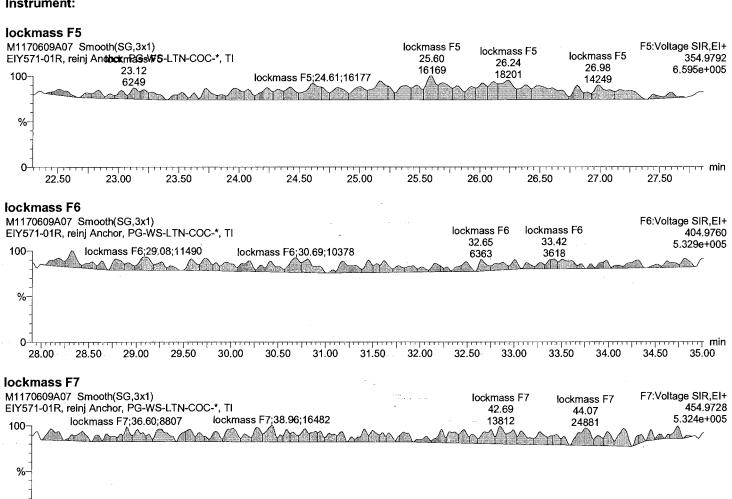
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June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time

Description: EIY571-01R, reinj

Vial: 7

Date: 09-Jun-2017 Time: 15:43:01 Instrument:



36.0

37.0

38.0

39.0

40.0

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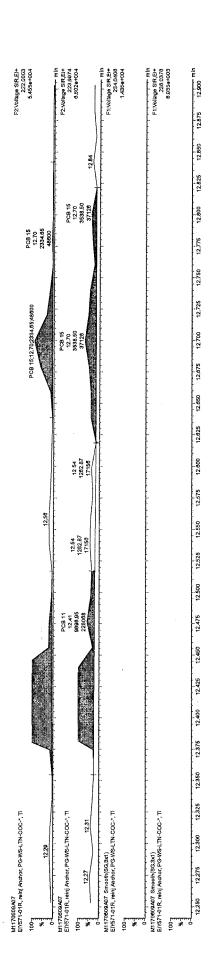
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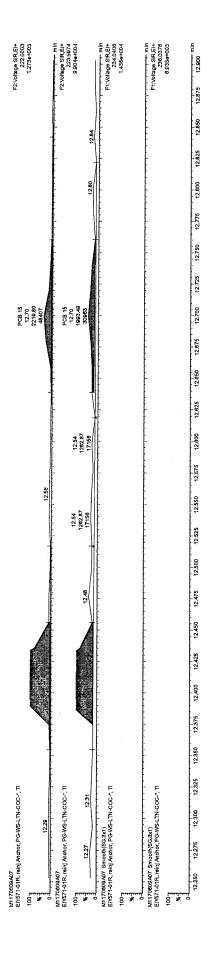
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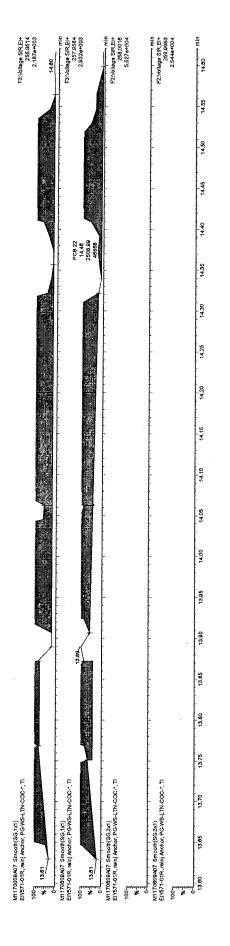


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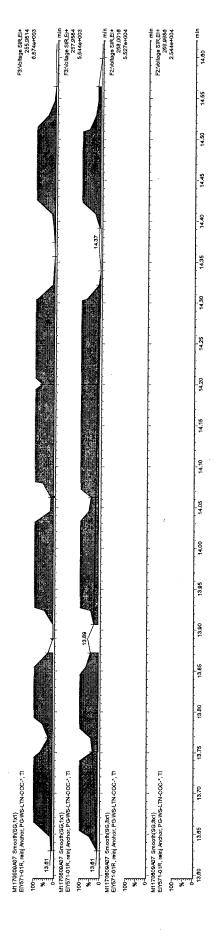
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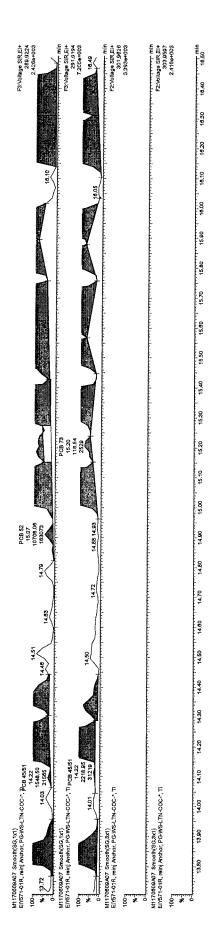
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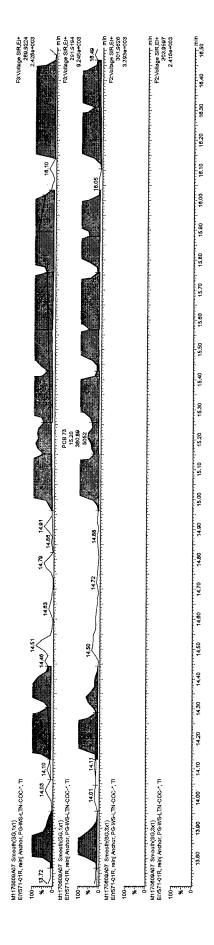
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200 21.250	F3-Voltage SIR, EH 330-9178 6.3128-601	73.40 to 10.00 to 10.	327.8.775 2.326+406	UIW december delication delicatio	F4:Voltage SIR,Ei+ 325.8865 2.870e+605
00 21.150 21.200			PCB 82 21.16 1012.89 13581	21.16 1439.10 18830	PCB 82
21,050 21,100				إدواء فاستناده والمستواء والمتحاولة والمتحاولة والمتحاولة والمتحاولة والمتحاولة والمتحاولة والمتحاولة والمتحاولة	
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20.950			494232602	A	0.54,282958
20,990			PCB 117/116/85/20.00;19924.94/23/2002		PCB 117//16/85,20 90,24380,54282958
20.850			PCB 117/11		PCB 117//11
20.800				And the fact of th	
20.750			20.76 3557.66 44070	20.76	
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20.400	PG-WS-LTM-COC	9,3x1) PGWS-LTN-COC	//425/67	(1x2)	PPANEY IN-COC
20.350	AD7 Smooth(SC R, reinj Anchor, F	A07 Smooth(SC R, rainj Anchor, I	8 109/4 19/86/69/ 20.23 8713.39 58655	11493.30 86087 () (() () () () () () () () (B.feini Andenso 20.23 11493.30
	M1170808A07 Smooth(S0.3x1) Elis571-01ft, rait) Anchor, PC-WS-LTN-OCC.*, TI 1004 % %	MIT70009.407 Smooth(36.347) 100-7 100-7 100-7	100 81330 83650 0	1148330 86087 0 1148340 Smooth(Sa,2x1)	M11/100bj-W1 Smhoshisu-Zd1) E19571 神色B-ngai/hotshisu-Zd1) 20.23 1100 11493.30

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PCB 1777 1645 20.76 20.77 437.71 437.71 437.71 73.61 7			49492		705 82 21.16 1439.10 18830	325,8865 2.870e+005
	ווי-ססאדק		PCB 117/116/65 20.78 4377.10 43063	PCB 110/15:20 B0;10708.79;231952	PC8 82 21.16 101.289	74:Voltage SIR_EH 327.8775 2.328e+005
	п, сос., п					F3:Vollage SIR,EH 73:Vollage SIR,EH 337:9207 2.378e+003
	N-COC-1 Ti	والمراجعة	industrial made and a state of the state of	والمستعددة	ياريدة أراديد ويورأ ويوروني والمرادية والمرادية والمرادية والمرادية والمرادية والمرادية والمرادية والمرادية	F3:Notings SIR,E1+ 335,0178 63:128-901
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F3:Voltage SIR,E1+ 339,9178 6.312e+501 23.250 23.200 23.150 23.100 23.050 PCB 107;22.95;3651,81;42095 22.950 22.850 22.800 PCB 108/124 22.78 882.50 10695 22.750 22.600 M1170609A07 Smooth(SG,2X1) EN571-018, rainj Anchor, PG-WS-LTN-COC-*, TI 0-M170809A07 Smooth(SG.3xf.) EI'9571-01R, reinj Anchar, PG-WS-LTN-COC.*, TI 22.38

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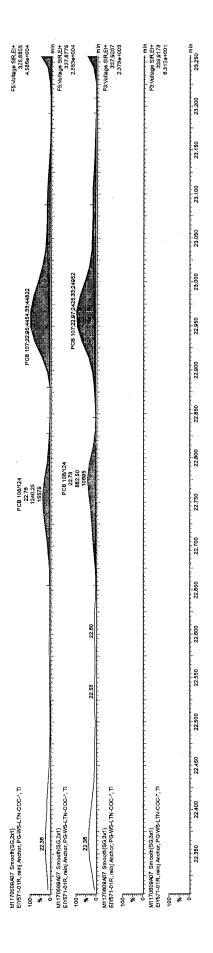
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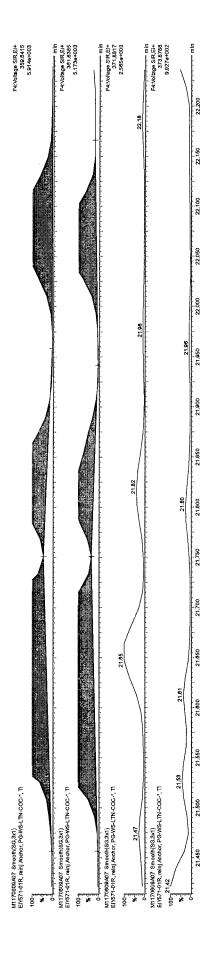
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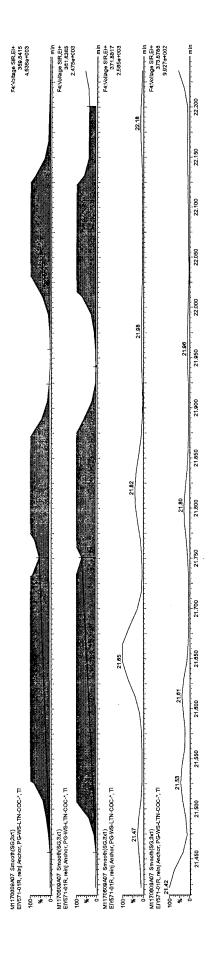
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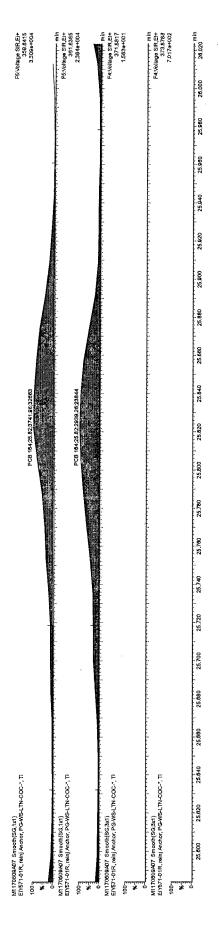
F4:Voltage SIR,Ei+ 373.8789 7.017e+502 26.020 25.940 25,920 25.880 25.840 25.780 25.800 25.820 25.740 25.760 25.700 25.680 25.660 25.640 MITOGODO Sementicas; M1170809.07 Smooth(SG.3x1) E19571-01R, reinj Anchor, PG-WS-LTN-COC-*, TI M1170808407 Smooth(SG,1x1) EIY571-01R, rainj Anchor, P.G-WS-LTN-COC--, TI 0-Mingraphy representations of the 1170608AD7 Smooth(SG,1x1)
EN571-01R, rainj Anchor, PG-WS-LTN-COC-*, TI 25.600 25.620

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F5:\olange SIR.Ei+ 359.8415 5.148e+004	FS:Voltage SIR,E:+ 361.6345 4.351e+004	74:Voltage StR,Et+ 371.8817 1.583e+001	F4:Voltage SIR,Et+ 7:017e+002	27.85
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	Assertance francisco		-	27.40
.30,40373	.67,35308	•		27.35
PC8 128/160;27.31;4526.30;40373	PCB 128/168:27.31.27/12.67.35308	- -		27.30
PC8 128	PCB 126	- -	-	27.25
-		- - -	-	27.20
		•	_	27.15
		· ·		27.10
			-	27.05
			-	27.00
		· •		26.95
7-17N-COC-7,111	54_TN-COC-1,TI	S-LTN-COC-4, TI	S-LTN-COC-*, TI	26.90
M1170808407 Smoothise,1x1) EINST-01R, rainj Anchor, PG-WS-LTN-COC, TI 1003	MITTOGOGACT Smooth(SS.1x1) ENST-01R, winj Archor, P.G-WS-LTM-CDC, TI 1003	M170609407 Smooth(5G:3d1) E1757-01R, rainj Archor, PG-WS-LTN-COC.*, TI 1003-1	MITOBODAD7 Smooth(SG.3xt) EYS71-01R, rain(Anchor, PG-WS-LTN-COC-*, TI 100	26.85
M1170609.407 S EIY571-01R, rein 1007	M1170608A07 S ElyS71-01R, rain 1003	M170609.407 S ElY571-01R, rein 1007	M170609A07 S E1Y571-01R, rain 100	26.80

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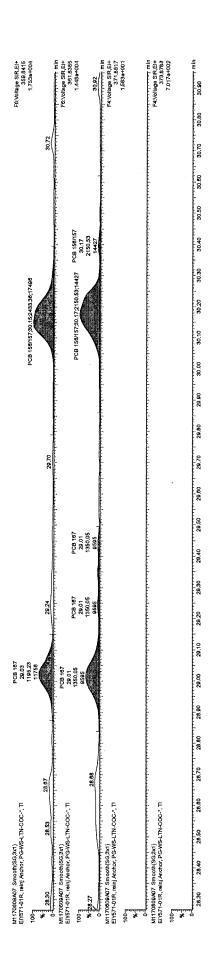
F4:Voltage SIR,Ei+ 373.8788 7.017e+002 F5:Voltage SIR,EI+ 361,8385 4.251e+004 27.85 27.80 27.75 27.70 27,65 27.55 27.45 27.40 PCB 128/106;27.31;5083.24;51072 27,35 27,30 27.15 27.10 27,05 27.00 26,95 M170809407 Smoolb(SG3X1) EIYS71-01R, reinj Anchor, PG-WS-LTN-COC-*, Ti M1170609A07 Smooth(SG,1x1) EN571-01R, reinj Anchor, PG-WS-LTN-COC-*, TI

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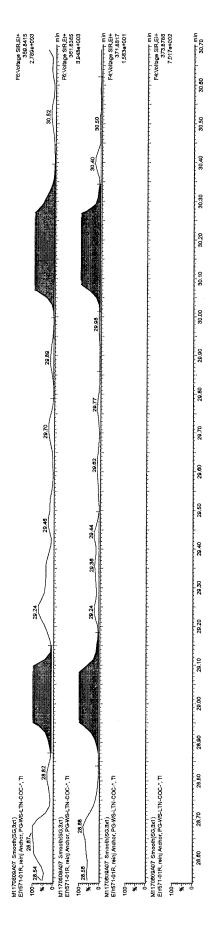
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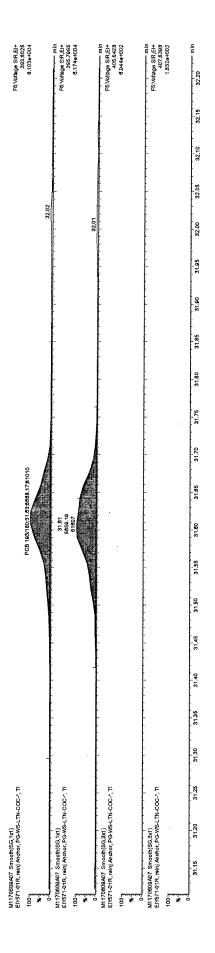
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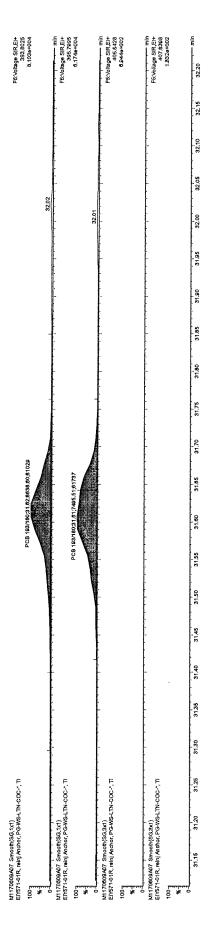


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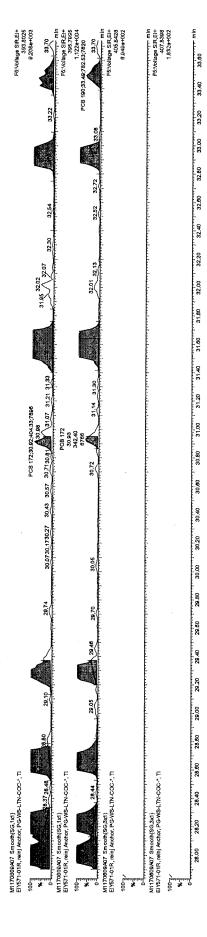
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33.60 PCB 170 32.92 3126.77 30856 30.0730.1730.27 30.45 30.57 30.7130.8.4.4.4.5.1.33 31.00 31.20 30.80 PCB 177 28.85 4173.56 43139 29.05 M1170609A07 Smooth(SG,1x1) EN571-01R, relnj Anchor, PG-WS-LTN-COC-*, TI 28.00

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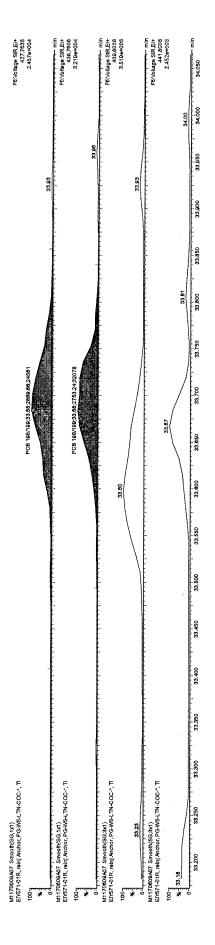


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F6'Voltage SIR,EI+ 427,7835 2,457e+004	min التينية الت F6:Volkage SIR,Ei+	429,7608 3,219e+004	F6:Vollage SIR,E1+ 430,8038 3,5159+003	nln — Feèvoliage SRA,E1+		34.00 34.050 min
	33,03	90°55	The state of the s	Ed SE		33.850 33.900 33.950
07,24569		20:31843			18 E	33.750
PCB 108/106/33,08/2840.07/24569		PCB 198/19633.88,3672,26,31543	0902		33.67	33.600 33.650 33.700
						33.450 33.500 33.550
	رة لأسان والمجارة والمراجعة المسادم مساسة وكون ووالموالية			rieden in deutschen der der eine deutschen der der eine deutschen der		33.350 33.400
M170606407 Smootk(SG.1x1) ENST-4018, reinj Ancher, PG-WS-LTN-COC-*, T1 1003	0		M170609407 Smooth(\$6,3x() EP\$71-018, tainj Anchor, PG-WS-LTN-COC-*, TI 100- ₃	33.23 00 MR/170069073 Smooth/Sca3.41 ENGY A18 minimate BO tale 10 FOC 9 1	ELTY 1-0 TK, Felly Andholy PickWS-L IN-CUC-, 11 1000 K 33.18	33,200 33,250 33,300

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			DAILY RFs Using post concal						1.016	1.598		,	0.00023	92
				Y=	8)	Q =	끢	#	9=	Ŧ	, II	=A*E/(C*H*F)*I	=C*D*100/(B*E*G)
		ate : 2017/06/09 me : 16:33:09 PM		1109	3491757	928003	11.11	2	1.016	1.607	10.013	-	0.00023	92
	:	Injection Date : Injection Time :	HRMS analyte calculations	+ Secondary lons) =	+ Secondary ions) =	+ Secondary lons) =	the Extract (pg, ng) =	the sample (pg, ng) =	Average RRF of Analyte =	RRF of Internal Standard =	Amount of Sample Extracted (g or L) =	SPLIT / Dilution Factor =	(pg/g, pg/L, Total pg) = (ng/g, ng/L, Total ng) =	Internal Standard Recovery (%) =
EIY572-01R, reinj	PCB 77	M1170609A04	applicable to all reported	Analyte Area (Primary + Secondary lons) =	Recovery Standard Area (Primary + Secondary ions) =	Internal Standard Area (Primary + Secondary lons) =	Amount of Recovery Standard added to the Extract (pg, ng) =	Amount of Internal Std. added to the sample (pg, ng) =	Avera	RRF	Amount of Sampl	IdS	Analyte Conc. (J	Internal Star
Maxxam ID #:	Analyte:	Instr. File Name :	SAMPLE DATA: the following is applicable to all reported HRMS analyte calculations		Recovery	Internal	Amount of Reco	Amount o						

Analysis Type: PCBCONHR-T

Filename M1170609A08 'Acquired 09/06/2017 16:33

Cali File PCB209_M1170609A

Sample ID EIY572-01R, reinj Comments Instrument File Ultima 1 Sample Size 10.013

Dil Fac 1.00

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Name 1 PCB 1	mass 188	RT NotFnd	Area *	ratio	Tot Area	ng/g ~0.000223	Code	130111013	DL -0.000223	S/N	Mod no	rrf 1.053	Rec
2 PCB 2	MoCB 190 188	8.81 NotFnd	:	no *	•	-0.000197			-0.000197	:	no	1.188	-
3 PCB 3	MoCB 190 188 MoCB 190	0.00 10.00	-1135	3.13	-1497.62	-0.000593	PCB 3 NDR		-0.000222	8	хL	1.055	~
4 PCB 4	222 DICB 224	10.01 NotFnd 10.12	-362.6198	OK * no	. •	-0.002729			-0.002729	250	no	1.191	-
5 PCB 10	222 DiCB 224	NotFnd 10.21		no	. •	-0.002727			-0.002727	•	no	1.192	-
6 PCB 9	222 DICB 224	NotFnd 11.01	:	no	•	-0.000272			-0.000272	*	no	1.471	-
7 PCB 7	222 DiCB 224	NotFnd 11.09		no	•	-0.000283			-0.000283	•	no	1.415	-
8 PCB 6	222 DiCB 224	NotFnd 11.19	•	no	•	-0.000276			-0.000276	*	no	1.449	-
9 PCB 5	222 DiCB 224	NotFnd 11.31		no	•	-0.00033			-0.00033	*	no	1.212	-
10 PCB 8	222 DICB 224	11.36 11.37	2999 1911	1.57 yes	4910	0.001082			-0.00023	25 20	yes	1.744	-
11 PCB 14	222 DICB 224	NotFnd 12.05	•	no	•	-0.000275			-0.000275	•	no	1.455	-
12 PCB 11	222 DICB 224	12.42 12.42	24839 16609	1.5 yes	41448	0.010891			-0.000274	186 188	yes	1.463	-
13 PCB 13/12	222 DICB 224	NotFnd 12.56		no	. •	-0.000281			-0.000281	•	no	1.425	-
14 PCB 15	222 DICB 224	12.70 12.70	-2615 -1676.282	1.56 OK	-4291.282	-0.00109	PCB 15 NDR		-0.000419	18 19	xL	0.956	-
15 PCB 19	256 TriCB 258	11.48 11.48	336 123	2.73 no	459	-0.000424			~0.000424	*	yes	1.06	-
16 PCB 30/18	256 TriCB 258	12.27 12.27	-5660.72 -5443	1.04 OK	-11103.72	-0.003277	PCB 30/18 NDR		-0.00043	97 84	xL	1.046	-
17 PCB 17	256 TriCB 258	12.46 12.48	1321 1250	1.06 yes	2571	0.000955			-0.00054	15 19	yes	0.833	-
18 PCB 27	256 TriCB 258	12.56 12.56	277 399	0.69 no	675	-0.000367			-0.000367	7	yes	1.225	-
19 PCB 24	256 TriCB 258	NotFnd 12.61		no	٠	-0.000405			-0.000405	*	` no	1.11	-
20 PCB 16	256 TrICB 258	12.66 12.69	-896.48 -862	1.04 OK	-1758.48	-0.000738	PCB 16 NDR		-0.000611	14 9	xL	0.736	-
21 PCB 32	256 TriCB 258	12.90 12.90	-892.32 -858	1.04 OK	-1750.32	-0.000414	PCB 32 NDR		-0.000344	13 11	хL	1.306	-
22 PCB 34	256 TriCB 258	NotFnd 13.48		no	*	-0.000184			-0.000184	*	no	1.367	-
23 PCB 23	256 TrICB 258	NotFnd 13.56	*	no	*	-0.00019			-0.00019	*	no	1,327	-
24 PGB 26/29	256 TriCB 258	13.70 13. 72	2235 2060	1.08 yes	4294	0.000937	•		-0.000178	16 16	no	1.419	-
25 PCB 25	256 TriCB 258	13.84 13.85	1858 2062	0.9 yes	3920	0.000858			-0.000178	15 17	no	1.414	-
26 PCB 31	256 TriCB 258	13.99 14.01	8280 8162	1.01 yes	16442	0.003362			-0.000187	70 68	no	1.514	
27 PCB 28/20	256 TriCB 258	14.13 14.16	9799 9107	1.08 yes	18906	0.004133			-0.000178	76 73	no	1.416	-
28 PCB 21/33	256 TriCB 258	14.27 14.27	4715 4738	1 yes	9453	0.002037			-0.000176	35 37	no	1.436	-
29 PCB 22	256 TriCB 258	14.48 14.47	-1718.08 -1652	1.04 OK	-3370.08	-0.000778	PCB 22 NDR		-0.000188	21 14	хL	1.338	-
30 PCB 36	256 TriCB 258	15.29 15.30	-788.32 -758	1.04 OK	-1546.32	-0.000293	PCB 36 NDR		-0.000155	7 6	хL	1.629	-
31 PCB 39	256 TriCB 258	NotFnd 15.50	•	no	•	-0.000172			-0.000172	*	no	1.469	-
32 PCB 38	256 TriCB 258	15.93 15.91	-1077.44 -1036	1.04 OK		-0.000452	PCB 38 NDR		-0.000175	35 7	хL	1.444	-
33 PCB 35	256 TriCB 258	16.10 16.10	858 900	0.95 yes	1758	0.000388			-0.00018	6 7	yes	1.403	-
34 PCB 37	256 TriCB 258	16.36 16.36	-1844 -1773.077	1.04 OK *	-3617.077		PCB 37 NDR		-0.000265	14 16	хL	0.951	-
35 PCB 54	290 TCB 292	NotFnd 12.82		no		-0.000398			-0.000398	*	no	1.071	-
36 PCB 53/50	290 TCB 292	13.85 13.86	531 694	0.77 yes	1225	0.000398			-0.000201	9 8	yes	0.844	-
37 PCB 45/51	290 TCB 292	14.24 14.21	1957 2957	0.66 yes	4914	0.001645			-0.000207	25 29	по	0.819	-
38 PCB 46	290 TCB 292	14.37 14.35	291 335	0.87 yes	627	0.000251			-0.000247	6 4	yes	0.685	•
39 PCB 52	290 TCB 292	15.08 15.05	16655 23220	0.72 yes	39875	0.012373			-0.000192	243 261	yes	0.883	-
40 PCB 73	290 TCB 292	NotFnd - 15.14	*	no		-0.000144			-0.000144	•	no	1.179	-
41 PCB 43	290 TCB 292	15.20 15.21	164 239	0.68 yes	403	-0.00028			-0.00028	•	yes	0.604	-
42 PCB 69/49	290 TCB 292	15.36 15.34	6279 9299	0.68 yes	15577	0.004528			-0.00018	97 101	yes	0.942	•
43 PCB 48	290 TCB 292	15.53 15.50	3517 4773	0.74 yes	8290	0.002783			-0.000207	53 51	yes	0.816	-
44 PCB 44/47/65	290 TCB 292	15.64 15.64	19085 28007	0.68 yes	47091	0.01429	DOD ENJOYEE NEW		-0.000187	252 276	yes	0.903	-
45 PCB 59/62/75	290	15.83	-356	0.77	-818.3377	- 0.000206	PCB 59/62/75 NDR		-0.000155	5	хL	1.091	-

	TOD 000	45.04	400 0077	OK					•			
46 PCB 42	TCB 292 290	15.84 15.97	-462.3377 -831.6	OK 0.77	-1911.6	-0.000708	PCB 42 NDR	-0.000228	9 13	хL	0.741	-
47 PCB 40/41/71	TCB 292 290	15.94 16.24	-1080 3113	OK 0.82	6888	0.002231		-0.0002	10 42	no	0.846	-
48 PCB 64	TCB 292 290	16.23 16.38	3775 3156	yes 0.8	7103	0.001907		-0.000166	32 45	no	1.02	_
	TCB 292	16.37	3947	yes					31			
49 PCB 72	290 TCB 292	16.87 16.90	275 325	0.85 yes	600	-0.000149		-0.000149		yes	1.392	-
50 PCB 68	290 TCB 292	17.04 17.09	6201 7517	0.82 yes	13719	0.002722		-0.00015	52 50	no	1.381	-
51 PCB 57	290 TCB 292	NotFnd 17.36	•		•	-0.000153		-0.000153	•	no	1.353	-
52 PCB 58	290	NotFnd	•	no *	•	-0.000156		-0.000156	:	no	1.326	-
53 PCB 67	TCB 292 290	17.51 17.60	* 881	no 0.73	2094	0.000422		-0.000152	7	yes	1.359	-
54 PCB 63	TCB 292 290	17.59 17.77	1213 538	yes 0.74	1267	0.000246		-0.000147	8 5	yes	1.41	_
	TCB 292	17.76	730	yes					4			
55 PCB 61/70/74/76	TCB 292	17.98 18.01	15045 20678	0.73 yes	35722	0.007499		-0.000158	96 104	no	1.305	-
56 PCB 66	290 TCB 292	18.22 18.24	-5938 - 7 711.688	0.77 OK	-13649.69	-0.002772	PCB 66 NDR	-0.000153	46 53	хL	1.351	-
57 PCB 55	290 TCB 292	NotFnd 18.37	•	no	*	-0.000163		-0.000163	•	no	1.272	-
58 PCB 56	290	18.69	1660	0.84	3628	0.000754		-0.000157	15	no	1,317	-
59 PCB 60	TCB 292 290	18.70 18.84	1969 -1305	yes 0.77	-2999.805	-0.000654	PCB 60 NDR	-0.000164	12 11	xL	1.259	-
60 PCB 80	TCB 292 290	18.87 NotFnd	-1694.805	ok *	•	-0.000139		-0.000139	12	no	1,492	
61 PCB 79	TCB 292 290	19.10 20.23	180	no 0.41	625	-0.000134		-0.000134	*	yes	1.541	_
	TCB 292	20.23	445	no	,				٠			
62 PCB 78	290 TCB 292	NotFnd 20.68	*	no		-0.000146		-0.000146	*	no	1.418	•
63 PCB 81	290 TCB 292	NotFnd 21.01	:	no	•	-0.000203		-0.000203	*	no	1.02	-
64 PCB 77	290 TCB 292	21,44 21,44	440 669	0.6 6 yes	1109	0.000235		-0.000204	4 5	yes	1.016	-
65 PCB 104	326	NotFnd	•	•	•	-0.000368		-0.000368		no	1.194	
66 PCB 96	PeCB 328 326	15.64 NotFnd	•	no *	•	-0.000545		-0.000545	•	no	0.806	-
67 PCB 103	PeCB 328 326	15.85 16.99	↓ 514	no 2.28	739	-0.000387		-0.000367	*	yes	0.824	-
68 PCB 94	PeCB 328 326	18.98 NotFnd	225	no *		~0.00045		-0,00045		no .	0.672	
	PeCB 328	17.12	*	no	47040				*			
69 PCB 95	326 PeCB 328	17.42 17.40	9030 6211	1.45 yes	15242	0.005365		-0.000383	42 46	no	0.79	-
70 PCB 100/93/102/	98 326 PeCB 328	17.65 17.54	773 533	1.45 yes	1306	0.0005		-0.000416	3 4	yes	0.727	-
71 PCB 88/91	326 PeCB 328	18.00 17.95	1529 874	1.75 yes	2403	0.000916		-0.000415	7 6	no	0.73	-
72 PCB 84	326	18.15	1939	1.58	3164	0.001367		-0.00047	9	no	0.644	-
73 PCB 89	PeCB 328 326	18.12 18.48	1226 234	yes 5.49	276	-0.00043		-0.00043	9	yes	0.704	-
74 PCB 121	PeCB 328 326	18.45 NotFnd	43	no *	•	-0.000307	-	-0.000307		no	0.986	
75 PCB 92	PeCB 328 326	18.70 18.98	5261	no 1.77	8235	0.003115		-0.000412	* 21	no	0.735	
76 PCB 113/90/101	PeCB 328	18.96	2974	yes		0.024581			20			
'	326 PeCB 328	19.42 19.38	45386 31073	1.46 yes	76459			-0.00035	195 209	no	0.865	-
77 PCB 83/99	326 PeCB 328	19.85 19.84	13268 931 1	1.42 yes	22579	0.008284		-0.000399	59 51	no	0.758	-
78 PCB 112	326 PeCB 328	NotFnd 19.92	:	* no	*	-0.000323		-0.000323	*	no	0.938	-
79 PCB 109/119/86/9	97/125/1326 PeCB 328	20.25 20.21	10663 7016	1.52	17680	0.005618		-0.000345	26	no	0.876	-
80 PCB 117/116/85	326	20.80	3466	yes 1.36	6009	0.001817	-	-0.000329	26 13	yes	0.92	-
81 PCB 110/115	PeCB 328 326	20.76 20.90	2543 19239	yes 1.57	31509	0.00921		-0.000318	14 78	yes	0.952	-
82 PCB 82	PeCB 328 326	20.88 21.16	122 7 0 958	yes 1.61	1555	0.000634		-0.000444	74 4	yes	0.682	
83 PCB 111	PeCB 328 326	21.15 NotFnd	597	yes	•	-0.000303		-0.000303	4	no	1	_
	PeCB 328	21.45	:	no •								
84 PCB 120	326 PeCB 328	NotFnd 21.81	*	no		-0.000278		-0.000278	•	no	1.089	•
85 PCB 108/124	326 PeCB 328	22.76 22.78	-677.35 -437	1.55 OK	-1114.35	-0.000255	PCB 108/124 NDR	-0.000117	9 8	хL	1.213	-
86 PCB 107	326 PeCB 328	22.97 22.98	2607 1624	1.61 yes	4231	0.000853		-0.000103	19 21	yes	1.38	-
87 PCB 123	326 PeCB 326	23.07 23.08	183 116	1.58	298	-0.000154		-0.000154	*	yes	0.921	-
88 PCB 108	326	NotFnd	•	yes *	•	-0.000123		-0.000123		no	1.152	-
89 PCB 118	PeCB 328 326	23.19 23.35	20787	no 1.6	33759	0.008366		-0.000138	167	no	1.028	_
90 PCB 122	PeCB 328 326	23.33 NotFnd	12972	yes •		-0.000122		-0.000122	173	no	1.164	_
	PeCB 328 326	23.63	430	no 1.57	704				*			-
91 PCB 114	PeCB 328	23.83 23.82	274	1.57 yes		0.000181		-0.000138	4	yes	1.023	-
92 PCB 105	326 PeCB 328	24.39 24.38	6677 4900	1.36 yes	11577	0.00295		-0.000138	53 54	no	1.024	•
93 PCB 127	326 PeCB 328	NotFnd 25.69	*	rio no	•	-0.000109		-0.000109	*	no	1.302	-
94 PCB 126	326 PeCB 328	NotFnd 27,22	•	•	•	-0.00013		-0.00013	*	no	1.093	-
	, 600 320	21,22		no								

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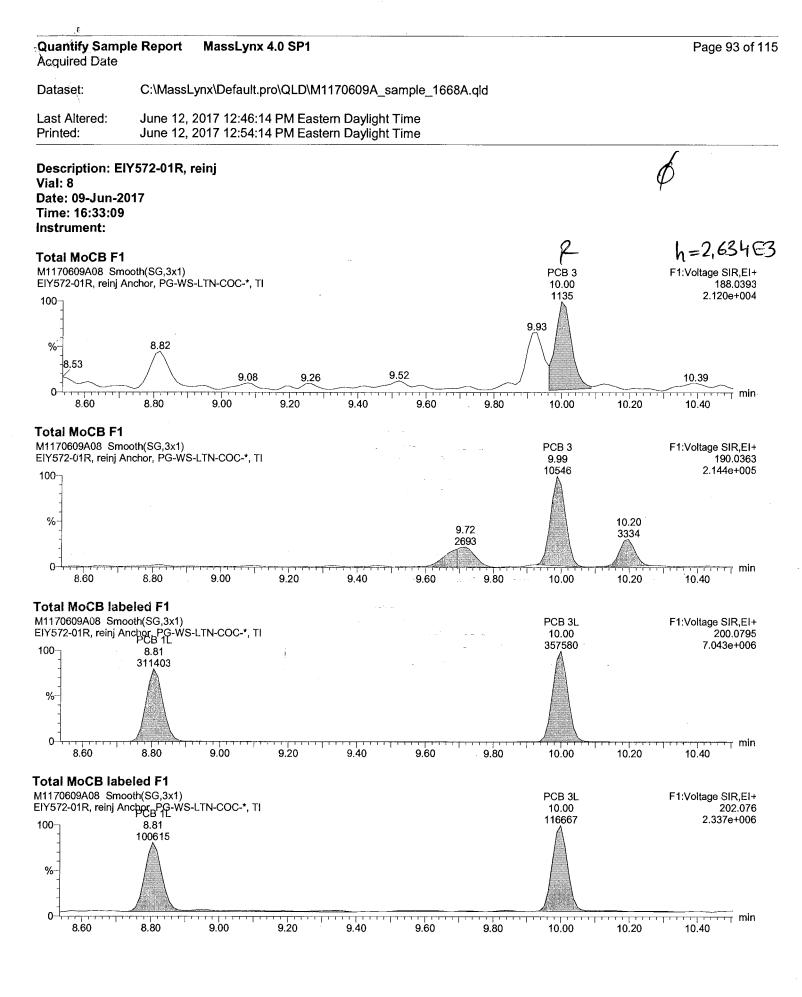
95	PCB 155	HxCB	360	NotFnd		•	•	-0.000179			0.000179	•	no	1.103	-
96	PCB 152		360	19.26 NotFnd	•	no •	*	-0.000232			0.000232	•	no	0.851	-
97	PCB 150	HxCB	362 360	19.40 NotFnd	:	no *	*	-0.000273			0.000273	•	no	0.724	_
98	PCB 136	HxCB	362 360	19.53 19.80	• 2283	no 1.25	4104	0.002293	•		0.000251	16	yes	0.787	_
		HxCB	362	19.78	1820	yes	4104					18	-		
99	PCB 145	НхСВ	360 362	NotFnd 20.03	;	no	-	-0.000269		•	0.000269		no	0.734	-
100	PCB 148	HxCB	360 362	NotFnd 21.13	:	no	•	-0.000326		•	0.000326	:	no	0.605	-
101	PCB 151/135		360	21.63	6182	1.14	11604	0.008761		-	0.000339	40 40	yes	0.583	-
102	PCB 154		360	21.61 21.82	5422 7 51	yes 1.08	1446	0.000948			0.000294	6	yes	0.671	-
103	PCB 144	HxCB	362 360	21.82 22.10	695 811	yes 1.29	1443	0.001024			0.000318	8 6	yes	0.62	-
	PCB 147/149	HxCB		22.07 22.38	631 1896 7	yes 1.37	32802	0.018472			0.000522	6 134	yes	0.781	-
		HxCB	362	22.36	13835	yes						110			
105	PCB 134/143	НхСВ	360 362	22.57 22.61	762 549	1.39 yes	1311	0.000851			0.000602	5 4	yes	0.678	•
106	PCB 139/140	HxCB	360 362	22.90 22.88	-443.92 -358	1.24 OK	-801.92	-0.000516	PCB 139/140 NDR	•	0.000516		Op-O	0.791	-
107	PCB 131		360	NotFnd 23.05		•	*	-0.000657			0.000657	•	no	0.621	-
108	PCB 142		360	NotFnd	•	no *	*	-0.000587			-0.000587	•	no	0.695	-
109	PCB 132	HxCB	362 360	23.19 23.45	4739	no 1.37	8199	0.005308			0.000601	30	no	0.679	
110 :	PCB 133	HxCB	362 360	23.44 23.85	3460 1252	yes 1.36	2174	0.001272			-0.000542	25 8	no	0.752	
		HxCB	362	23.86	922	yes	•				0.000427	7		0.955	
111	PCB 165	HxCB		NotFnd 24.23	•	no		-0.000427				•	no		•
112	PCB 146	НхСВ	360 362	24.42 24.43	-6514.96 -5254	1.24 OK	-11768.96	-0.00573	PCB 146 NDR	•	0.000462	43 36	хL	0.882	-
113	PCB 161		360	NotFnd 24.54		•	*	-0.000403		•	-0.000403	•	no	1.012	-
114	PCB 153/168		360	24.99	47181	no 1.36	81939	0.037061			0.000419	263	no	0.973	-
115	PCB 141 "	HxCB	362 360	25.01 25.15	34757 -1594.64	yes 1.24	-2880.64	-0.001685	PCB 141 NDR		-(),000556	240 18	хL	0.734	
116	PCB 130	HxCB	362 360	25.15 25.55	-1286 1555	OK 1.17	2878	0.0018			0.000579	11 8	no	0.704	
		HxCB	362	25.53	1324	yes	-1605.935		PCB 137 NDR		-0.000598	10 6	хL	0.682	
		HxCB		25.79 25.76	-889 - 7 16.9355	1.24 OK						9			Ī
118 !	PCB 164	НхСВ	360 362	25.82 25.85	-1525 -1229.839	1.24 OK	-2754.839	-0.001101	PCB 164 NDR		-0.00038	9 12	хL	1.074	-
119	PCB 138/163/129	HxCB	360 362	26.13 26.17	32418 26764	1.21 yes	59182	0.031413			-0.000492	177 17 7	no	0.829	-
120	PCB 100		360	NotFnd	*	•	*	-0.000443			-0.000443	•	по	0.92	
121	PCB 158		360	26.31 26.50	-2161.32	no 1.24	-3904.32	-0.001541	PCB 158 NDR		·0.000 37 5	15	хĹ	1.088	-
122 1	PCB 128/166	НхСВ	362 360	26.49 27,33	-1743 3200	0K 1.41	5471	0.002696			-0.00045 7	14 21	no	0.893	-
		HxCB	362 360	27,33 NotFnd	2270	yes	*	-0.000313			-0.000313	19	no	1.209	
		HxCB :	362	28.29	•	no	_	**				•			
124 1	PCB 162	HxCB	360 362	NotFnd 28.55		no	-	-0.000314			-0.000314		no	1.206	-
125	PCB 167	НхСВ	360 362	29.03 29.04	996 852	1.17 yes	1848	0.000622	-5	•	-0.000343	6 6	yes	1.103	•
126 1	PCB 156/157		360	30.15 30.18 ¹	1976 1419	1.39	3395	0.001293			-0.000362	10 6	yes	1.047	-
127	PCB 169		360	NotFnd	1410	yes	•	-0.000364			0.000364	•	no	1,04	-
128	PCB 188	HxCB	362 394	33.58 23.80	219	no 1.08	422	-0.000164			-0.000164		yes	1.069	-
120	PCB 179	НрСВ	396 394	23.80 24.09	203 2800	yes 1.12	5307	0.002453	-		-0.000158	26	no	1.113	_
		НрСВ :	396	24.09	2507	yes	*	-0.000164			-0.000164	23	no	1.068	
		HpCB:		NotFnd 24.57	•	no -						<u>.</u>			_
131 1	PCB 176	HpCB :		24.89 24.87	723 788	0.92 yes	1511	0.000746			-0.000168	7 8	yes	1,043	•
132 F	PCB 186		394	NotFnd 25.28		no	*	-0.000178			-0.000178	*	no	0.984	-
133 I	PCB 178	•	394	26.55	2600	1.06	5059	0.003405			-0.00023	19	ro	0.764	-
134 F	PCB 175		394	26.56 27.14	2458 454	yes 2.29	652	-0.000216			-0.000216	26	Ор-О	0.813	-
135 I	PCB 187	HpCB :	396 394	27.16 27.42	198 1 406 1	no 1.16	26163	0.016367			-0.000213	120	no	0.823	-
136 (PCB 182	НрСВ	396 394	27.40 NotFnd	12102	yes		-0.00022			-0.00022	119	no	0.796	
		НрСВ :	396	27.61	4027	no 0.07	0242					20			
		HpCB :		28.03 27.99	403 7 4 175	0.97 yes	8212	0.003977			-0.000631	20 20	yes	1.063	-
138 [PCB 185	HpCB		NotFnd 28.08	•	* no	•	-0.000818			-0.000818	:	no	0.82	-
139 8	PCB 174		394	28.25 28.24	3026 3374	0.9	6400	0.00363			-0.00074	14 14	no	0.907	-
140 F	PCB 177		394	28.67	-2604	yes 1.05	-5084	-0.002934	PCB 177 NDR		-0.000 7 53	13	xL	0.891	-
141 F	PCB 181		394	28.65 NotFnd	-2480	ok •	•	-0.000746			-0.000748	15	no	0.9	-
142 5	PCB 171/173	HpCB :	396 394	29.06 29.29	1394	no 1.15	2602	0.001532			-0.000768	5	yes	0.874	-
		НрСВ :		29.28 30.98	1208 -798	yes 1.05	-1558	-0.000887	PCB 172 NDR		-0.000743	6	хL	0.903	_
		HpCB :	396	30.93	-760	OK	*1000		. 00 (12 110)			3			
144 F	PCB 192	;	394	NotFnd	-	-	•	-0.00061			-0.00061	-	no	1.101	-

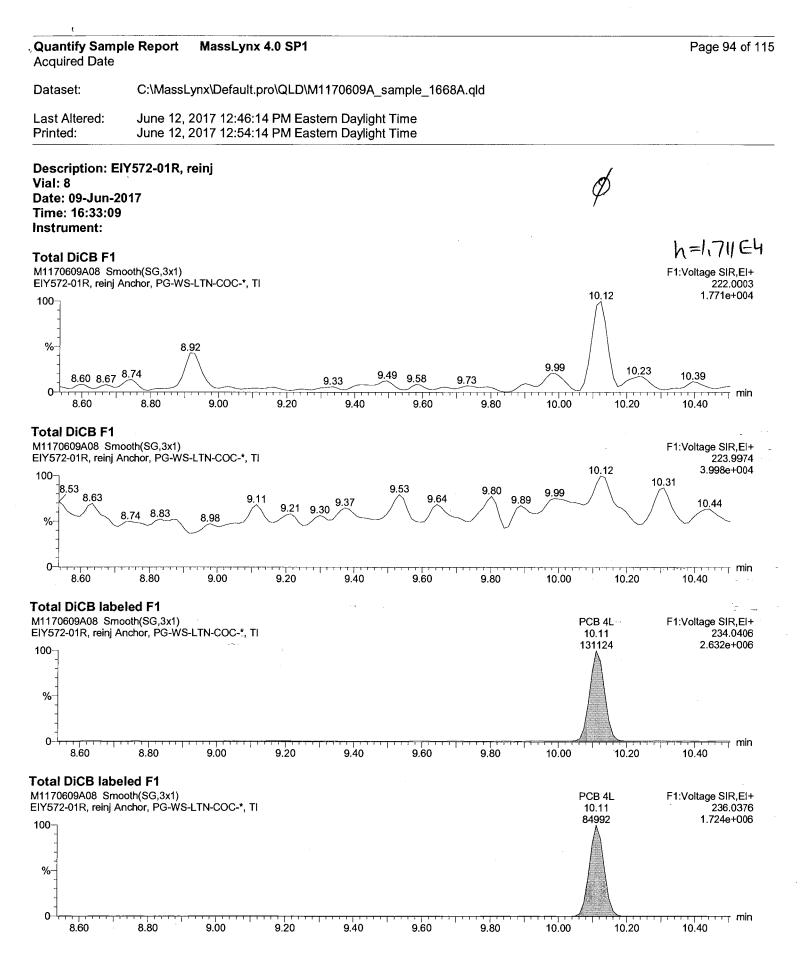
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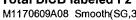
	НрСВ 396	31.24	•	no					•			
145 PCB 193/180	394 HpCB 396	31.63 31.59	8974 8487	1.06 yes	17461	0.008921		-0.00058	32 35	no	1.157	
146 PCB 191	394 HpCB 396	NotFnd 31.97	•	no	•	-0.000544		-0.000544	*	no	1.234	-
147 PCB 170	394 HpCB 396	32.94 32.94	-2574 -2451.429	1.05 OK	-5025.429	-0.003185	PCB 170 NDR	-0.000573	11 17	хL	1.171	-
148 PCB 190	394	33.53	809	2.08	1198	-0.000538		-0.000538	*	yes	1.247	-
149 PCB 189	HpCB 396 394	33.50 NotFnd	389	ıю *	•	-0.000887		-0.000887		no	0.922	-
150 PCB 202	HpCB 396 428	36.35 28.79	-399	no 0.89	-847,3146	-0.00137	PCB 202 NDR	-0.000871	6	xL	1.031	
151 PCB 201	OcCB 430 428	28.78 NotFnd	-448.3146 •	ok •		-0.000833		-0.000833	9	рo	1.078	
152 PCB 204	OcCB 430 428	29.70 NotFnd		no •		-0.000847		-0.000847		no	1.06	
	OcCB 430	30.39		no •		-0.00083		-0.00083		no	1.082	
153 PCB 197	428 OcCB 430	NotFnd 30.62	1.1	no		Q					1.016	
154 PCB 200	428 OcCB 430	NotFnd 30.74		no		-0.000884		-0.000884		no		
155 PCB 198/199	428 OcCB 430	33.70 33.67	-1048 -1177.528	0.89 OK	-2225.528	-0.003351	PCB 198/199 NDR	-0.001155	12 14	xl.	0.777	
156 PCB 196	428 OcCB 430	34.41 34.41	464 568	0.82 yes	1032	0.002054		-0.001096	7 6	yes	0.819	. YE III
157 PCB 203	428 OcCB 430	34.64 34.60	-252.76 -284	0.89 OK	-536.76	-0.001088	PCB 203 NDR	-0.001088		Op-O	0.825	
158 PCB 195	428	36.04	-172.66	0.89 OK	-366.66	-0.000461	PCB 195 NDR	-0.000348	7 4	xL	0.931	
159 PCB 194	OcCB 430 428	36.05 38.65	-194 -676	0.89	-1435.551	-0.001746	PCB 194 NDR	-0.000337	13	хL	0.962	
160 PCB 205	OcCB 430 428	38.68 NotFnd	-759.5506	ok •		-0.000327		-0.000327	14	no	0.992	
161 PCB 208	OcCB 430 462	39.23 35.80	1799	по 0,77	4133	0.00307		-0.000785	10	no	1.042	-
162 PCB 207	NoCB 484 462	35.81 NotFnd	2334	yes •		-0.000867		-0.000667	11	ho	1.228	
163 PCB 206	NoCB 464 462	36.85 41.21	• 1891	no 0.84	4145	0.006286		-0.000805	• 9	yes	1.017	
	NoCB 464	41.19	2253	yes			DCD 0//0 NDD	-0.001123	9 14	xL.	1.026	
164 PCB 209	498 DCB 500	43.06 43.09	-1843 -1588.793	1.16 OK		-0.005958	PCB 209 NDR		18			-
165 PCB 1L	200 202	8.81 8.82	311403 100615	3.1 yes	412017	0.076143		0.001	2353 160	no	0.997	38
166 PCB 3£	200 202	1 0.00 9.99	357580 116667	3.06 yes	474248	0.083208		0.001	2951 1 9 9	no	1.05	42
167 PCB 4L	234 236	10.11 10.10	131124 84992	1.54 yes	216117	0.085756		0.001	449 795	no	0.464	43
168 PCB 16L	234 236	12.70 12.69	499813 323440	1.55 yes	823253	0.1299		0	629 1881	no	1.168	65
169 PCB 19L	268	11.48	156374	1.03	307564	0.105769		0.002	183 242	no	0.536	53
170 PCB 37L	270 268	11.47 16.35	151190 502016	yes 1.04	983126	0.16907		0.001	514	no	1.848	85
171 PCB 540	270 3 02	16.35 12.82	481110 143825	yes 0.8	324059	0.128382		0	578 950	no	0.802	64
172 PCB 81L	304 302	12.82 20.99	180234 406321	yคs 0.77	935312	0.186058		0	2289 799	no	1.597	83
173 PCB 77L	304 3 02	20.97 21.42	528991 406589	yes 0,78	928003	0.183488		0 .	2786 789	no	1.607	92
174 PCB 1041.	304 338	21.42 15.62	521414 282715	yes 1.65	453692	0.178964		0	271ର 8758	ho	0.912	90
-	340	15.65	170977	yes	826768	0.188054		0	15298 3673	rio	1.581	94
175 PCB 123L	338 340	23.05 23.04	505452 321316	1.57 yes					1041			
176 PCB 118L	338 340	23.33 23.33	485765 298065	1.63 yes	783830	0.186698		0	3479 959	no	1.51	93
177 PCB 114L	338 340	23.80 23.80	470733 288940	1.63 yes	759673	0.18569		0	3415 950	no	1.471	93
178 PCB 105L	338 340	24.35 24.36	479442 285829	1.68 yes	765271	0.184892		0	3426 920	no	1.488	93
179 PCB 126L	338 340	27.19 27.18	403303 247977	1.63 yes	651281	0.162565		0	2655 724	no	1.44	81
180 PCB 155L	372 374	19.24 19.26	304556 235511	1.29 yes	540067	0.19929		0	20740 7392	no	1.01	100
181 PCB 167L	372	29.01	301029	1.27	538373	0.140946		0	1957	no	1.424	71
182 PCB 156L/157L	374 372	29.00 30.15	237344 560 5 25	yes 1.27	1002017	0.249946		0	1467 3032	no	1.495	63
183 PCB 169L	374 372	30.15 33.55	441491 135446	yes 1,34	236684	0.058138		0	2302 814	no	1.518	29
184 PCB 188L	374 406	33.54 23.78	101238 314802	yes 1.1	600859	0.19608		0 -	575 . 3328	no	1.142	98
185 PCB 160L	408 406	23.78 31.59	286058 174909	yes 1.07	337838	0.300717		0.001	9038 1427	no	1.343	151
	408	31.58	162929	yes				0,001	3288 1131	ho	1.141	142
186 PCB 170L	406 408	32.90 32.89	139803 131826	1.06 yes	271629	0.284443			2640			107
187 PCB 189L	406 408	36.31 36.29	17 6390 1 6 5936	1.06 yes	342326	0.212763		0.001	950 768	no	1.923	
188 PCB 202L	440 442	28.75 28.76	54042 . 6 5228	0.83 yes	119270	0.200874		0.001	1748 1177	no	1.353	101
189 PCB 205L	440 442	39.19 39.19	106382 115633	0.92 yes	222016	0.186357		0.001	1030 669	no	1,424	93
190 PCB 208L	474 476	35.78 35.79	110787 147340	0.75 yes	258126	0.235627		0	1505 1919	no	1.309	118
191 PCB 206L	474	41.19	57375	0.8	129537	0.167647		0.001	733 897	no	0.924	84
192 PCB 209L	476 510	41,20 43.04	72162 59764	yes 1.13	112516	0.16235		0	3786	no	0.828	81
193 PCB 28L	512 268	43.06 1 4.13	52752 544866	yes 1.03	1076376	0.173707	la di	0.001	2208 603	no	1.969	78
PCB Cleanup S	tandard 270	14.13	531511	yes			•		706			

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194	PCB 111L	338	21.42	512434	1.64	825506	0.216194			0	4513	no	1.373	98
	PCB Cleanup Standard	340	21.41	313073	yes						4367			
195	PCB 178L	406	26.51	220305	1.09	422235	0.214955			0	2193	no	0.732	97
	PCB Cleanup Standard	408	26.52	201930	yes						6136			
196	PCB 31L	268	NotFnd	•	•	*				0.001		no	1.878	
	PCB Audit Standard	270	13.98	•	no									
197	PCB 95L	338	NotFnd	•	*	•				0		no	0.916	
	PCB Audit Standard	340	17.40	*	no									
198	PCB 153L	372	24.96	7280	1.29	12920	0.004107			0	68	no	1.173	2
	PCB Audit Standard	374	24.98	5640	yes						74			
199	PCB 9L	234	10.99	3700656	1.6	6020130	14.75193			-	4725	no	-	-
	PCB Recovery Standard	236	11.00	2319474	yes						13923			
200	PCB 52L	302	15.07	1552251	0.8	3491757	15.17978			-	4836	no	-	-
	PCB Recovery Standard	304	15.05	1939506	yes						8982			
201	PCB 101L	338	19.40	1908002	1.62	3085779	14.68903			-	17714	no	-	-
	PCB Recovery Standard	340	19.36	1177777	yes						17176			
202	PCB 138L	372	26.10	1672295	1.28	2975908	13.74234			-	15845	no	-	-
	PCB Recovery Standard		26.07	1303613	yes						18342			
203		440	38.65	442930	0.91	928305	5.385507			-	4219	no	-	-
	PCB Recovery Standard		38.59	485375	yes						2893			
	1 OB Taxostory California		00.00	1000.0	,									
	Chloroblphenyls						-0.000223		0	-0.000223				
	Dichlorobiphenyls						0.011973		2	-0.002729				
	Trichloroblphenyls						0.01267		7	-0.000611				
	Tetrachlorobiphenyls						0.052284		15	-0.000398				
	Pentachlorobiphenyls						0.073757		15	-0.000545				
	Hexachlorobiphenyls						0.113814		14	-0.000657				
	Heptachiorobiphenyls						0.041031		8	-0.000887				
	Octachloroblphenyls						0.002054	•	1	-0.001155				
	Nonachloroblphenyls						0.009356		2	-0.000805				
	Decachloroblphenyl						-0.001123		0	-0.001123				
	PCB (total)						0.316939							
	i ob (lowl)													







PCB 9L 3.180e+007 100 10.99 2319474 % PCB 15L 12.70 323440 0 ~~ min 11.00 11.20 10.60 10.80 11.40 11.60 11.80 12.00 12.20 12.40 12.60 12.80 13.00

Total TriCB labeled F2 M1170609A08 Smooth(SG,3x1) F2:Voltage SIR,EI+ EIY572-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 269.9986 PCB 19L 2.159e+006 100 11.48 151190 11.00 11.20 11.40 10.80 11.80 10.60 11.60 12.00 12.20 12.40 12.60 12.80 13.00

h=2,26 =3

F3:Voltage SIR,EI+

Dataset:

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June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time

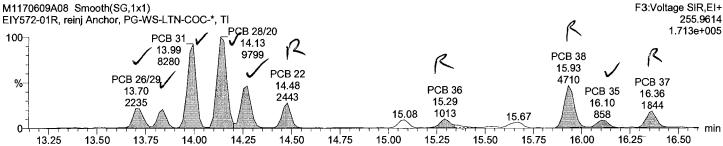


Vial: 8

Date: 09-Jun-2017 Time: 16:33:09 Instrument:

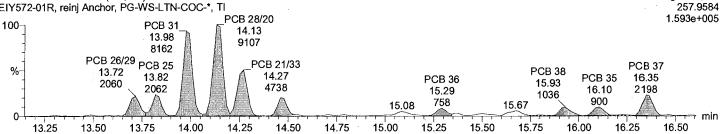
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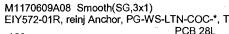


Total TriCB F3

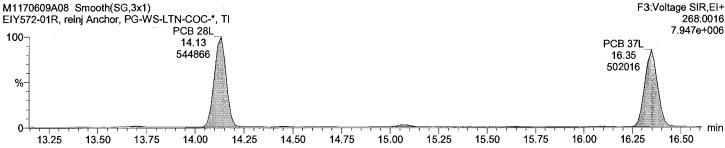
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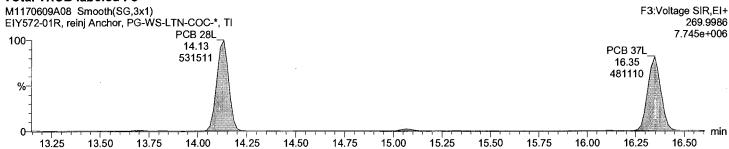
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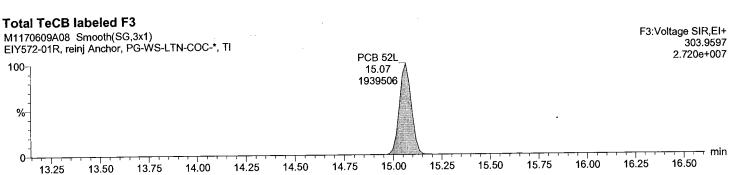
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Total TriCB labeled F3



13.25



Last Altered:

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Description: EIY572-01R, reinj

Vial: 8

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Date: 09-Jun-2017 Time: 16:33:09 Instrument:



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Total PeCB F3

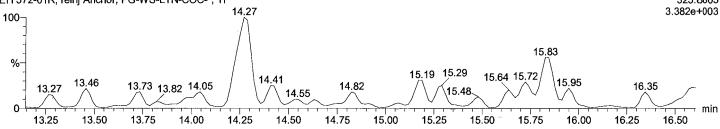
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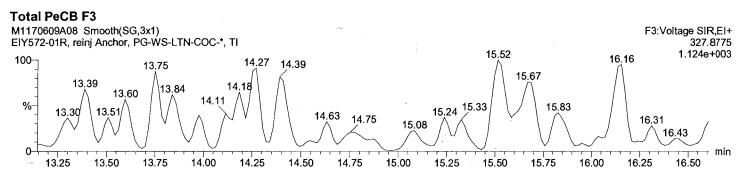
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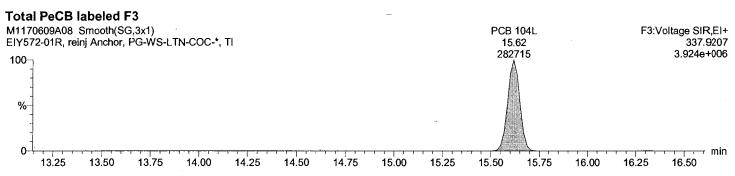
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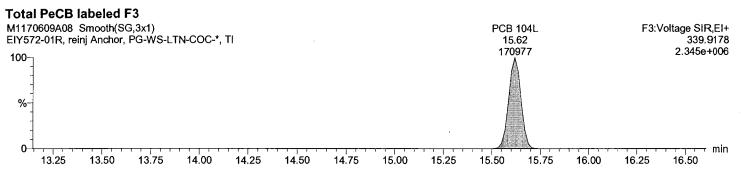
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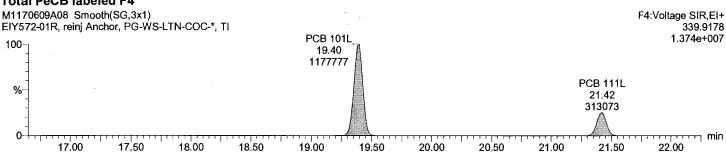
3 382e+003

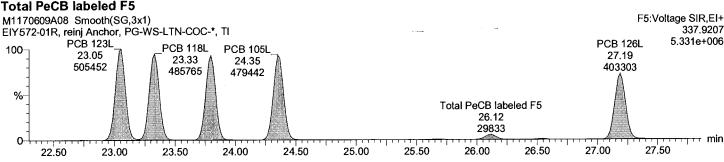


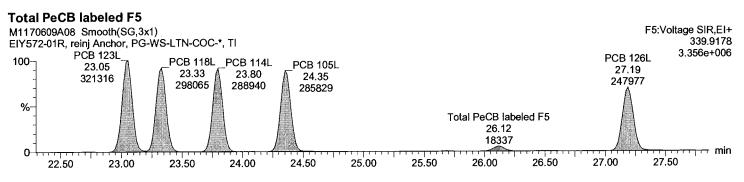


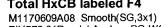












373.8788 EIY572-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 2.838e+006 PCB 155L 19.24 235511 % min רדיי 0 21.50 22.00 20.00 21.00 19.00 19.50 20.50 17.00 17.50 18.00 18.50

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→ min

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1525

26,00

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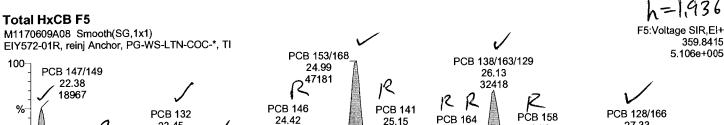
June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time



Vial: 8

Date: 09-Jun-2017 Time: 16:33:09 Instrument:





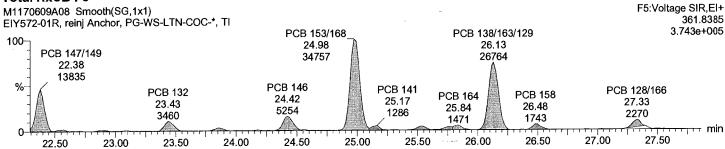
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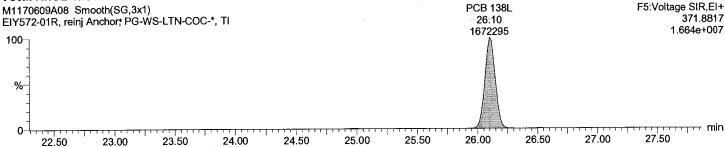
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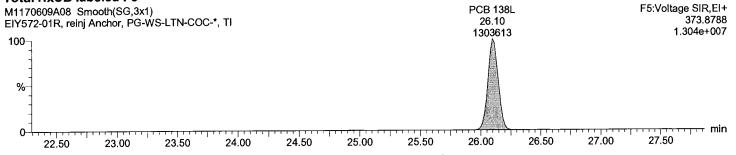
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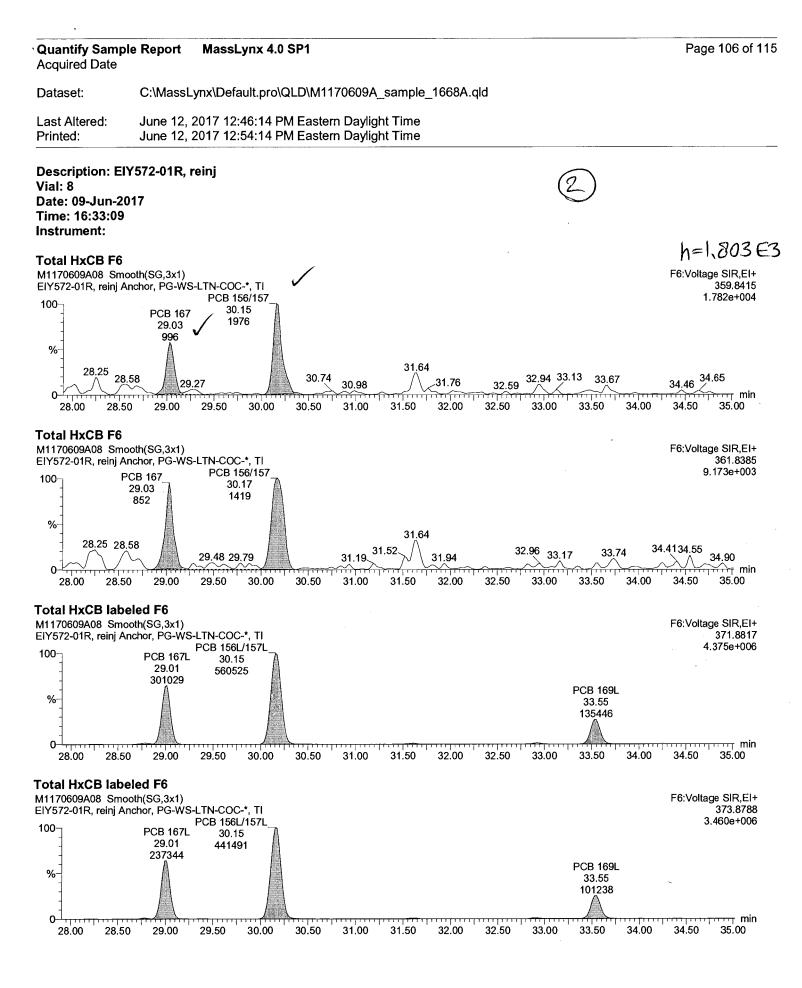


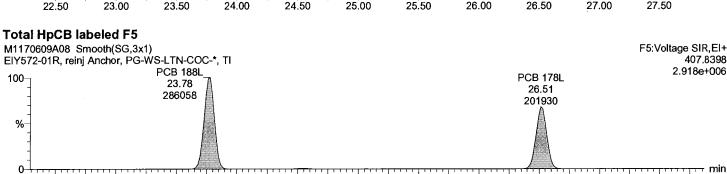




Total HxCB labeled F5







25.00

25,50

26,00

26.50

27.00

22.50

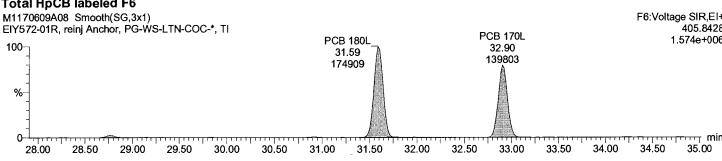
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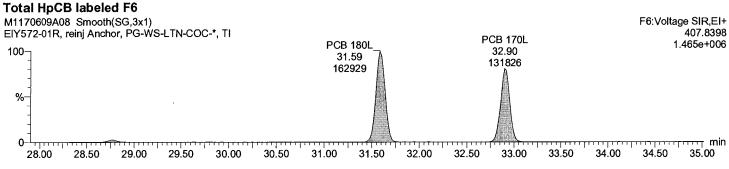
23.50

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h=2,256 E3

Dataset:

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Acquired Date

June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time

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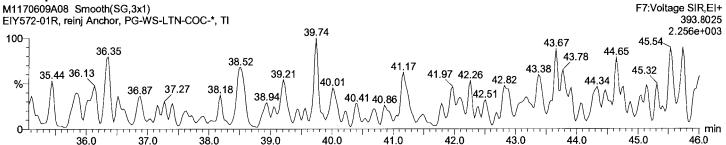
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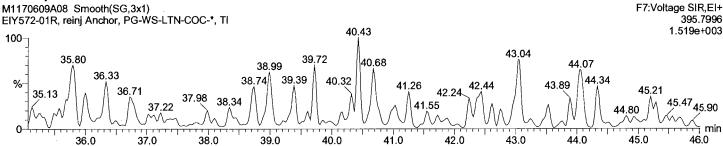
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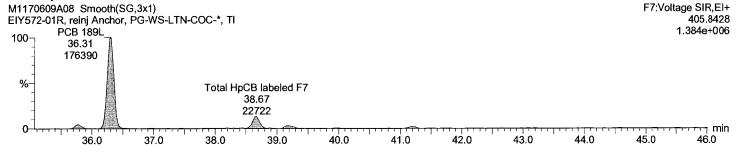
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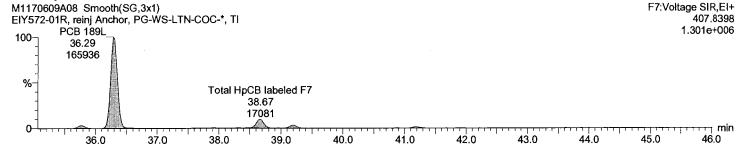




Total HpCB labeled F7



Total HpCB labeled F7



MassLynx 4.0 SP1

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29.50

29.00

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28.20

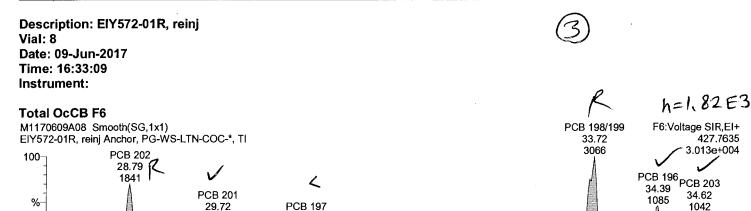
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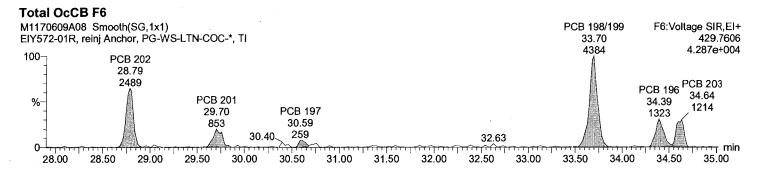
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28.00

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June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time





31.50

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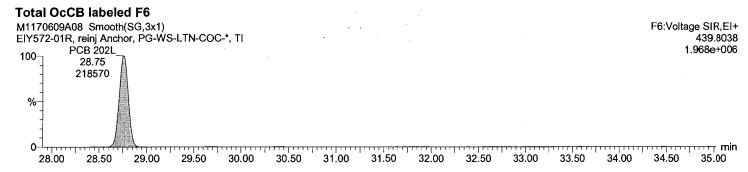
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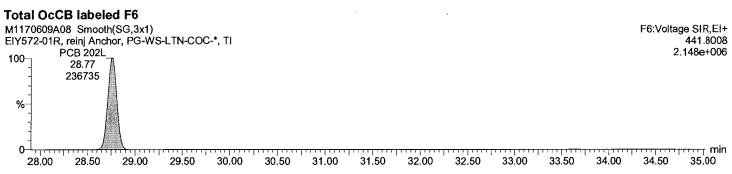
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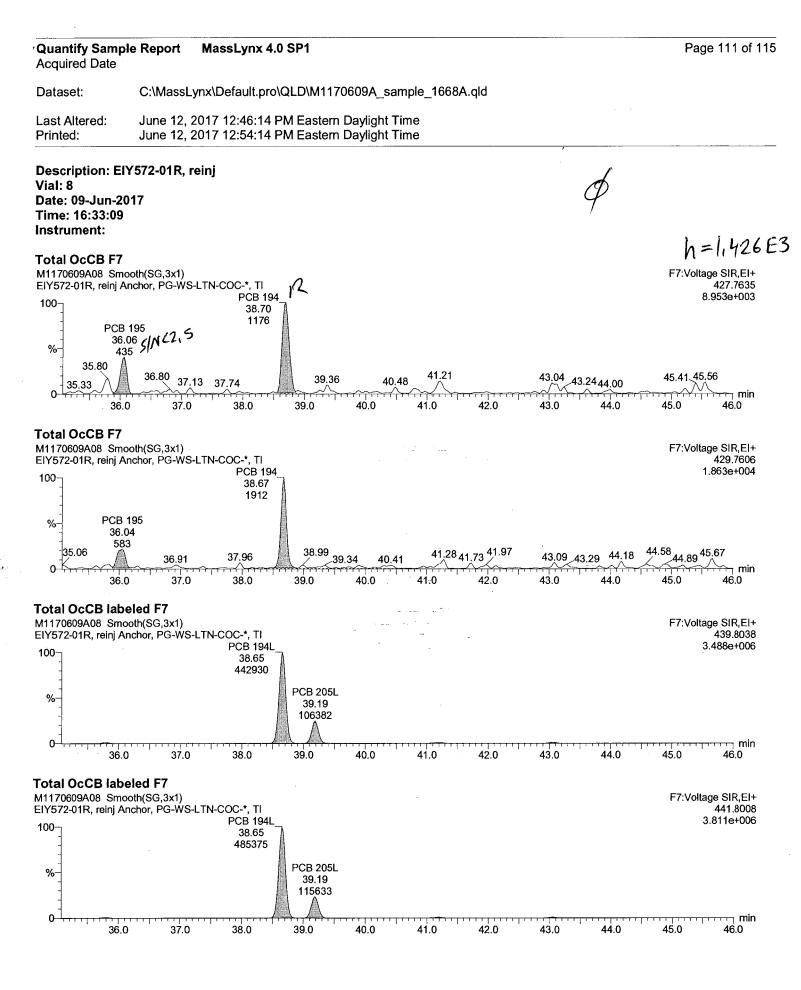
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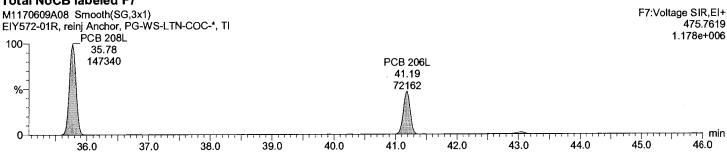
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32.00









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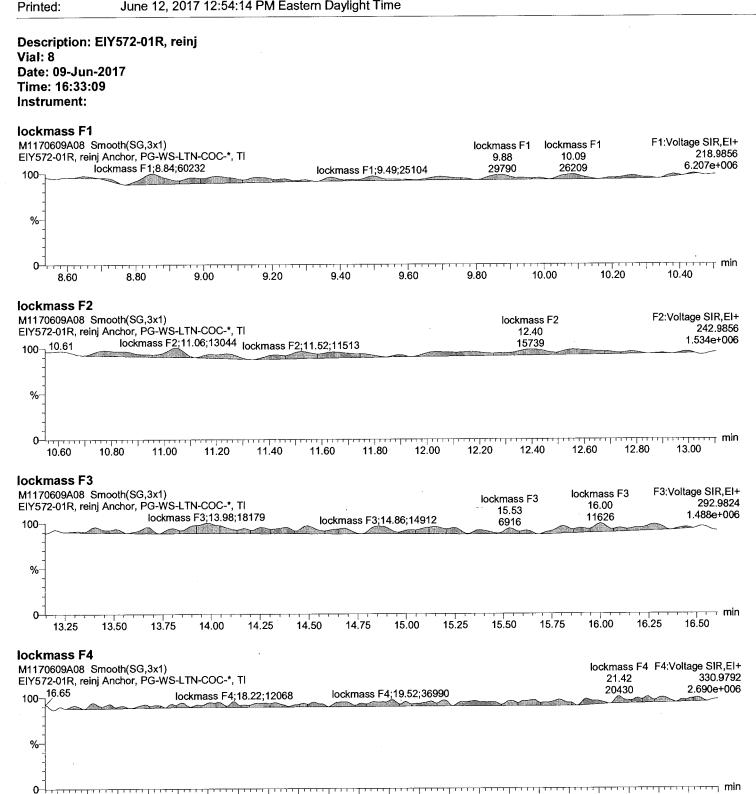
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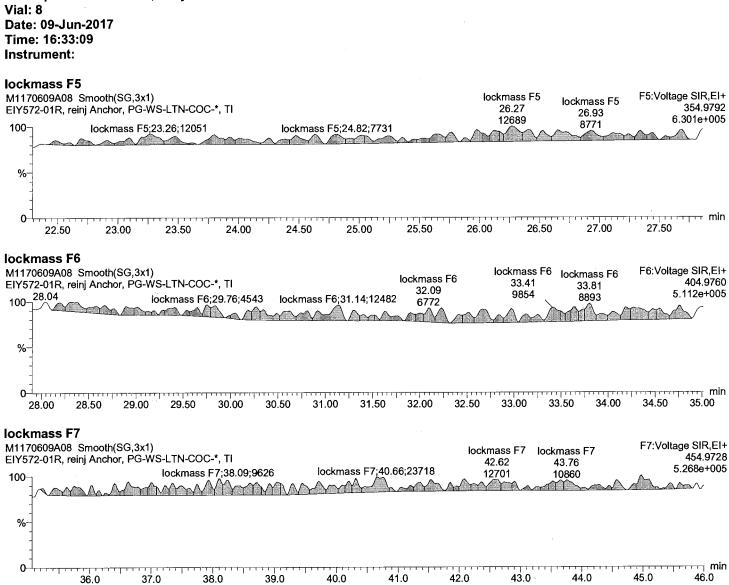
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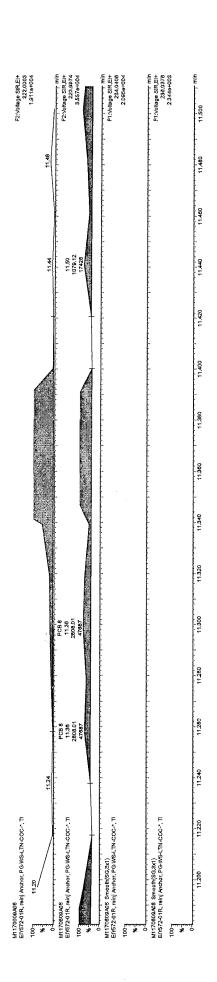
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June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time

Description: EIY572-01R, reinj

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2017-06-12

MT2

Maxxam Analytics

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11,500 11.50 1079.12 17428 11,400 M1170609A08 EIY572-01R, nehj Anchor, PG-WS-L'TN-COC-*, TJ M1/70608/408 EIY\$72-01R, reinj Anchor, PG-WS-LTN-COC-*, TI M1170809A08 Smooth(SG.3X1) EIY\$/2-01R, reinj Anchor, PG-WS-LTH-COC-*, TI 11,160 11.140

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Page 2155 of 2579

12.82 1179.21 36649 12,575 12,600 12,625 12,650 12,675 12,700 12,725 12,750 12,775 12,800 PCB 15 12.70 3260.17 46787 12.375 12.400 12.425 12.450 12.475 12.500 12.525 12.550 12.54 1835.39 26777 PCB 11 12.41 19875.35 481446 M1170608A08 EIY572-01R, reinj Anchor, PG-WS-LTN-COC-*, Ti M1170809A0B Smooth(SG,3XI) E1Y572-01R, rainj Anchor, PG-WS-LTN-CCC-*, TI 12,225 N1170600A08 EIV572-01R, reinj Anchor₄EG4WS-LTN-COC-*, TI 12.200

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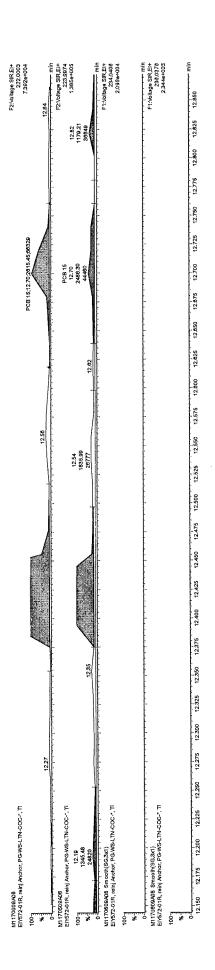
Before M3

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2017-06-12 Affer MT2 M3

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12.950 12,025 12,850 12.84 12.825 12.68 1336.01 10673 12.60 12,550 12,575 12.56 1162.82 13999 12,525 12,500 12.475 12.450 12.425 12.325 12.350 12.375 12.400 12.40 12250 12275 12300 M1170608408 EN572-01R, reinj Anchor, PG-WS-LTN-COC--, TI M1170609.608 EN572-018, rainj Anchor, PG-WS-LTN-COC-*, TI 12,225

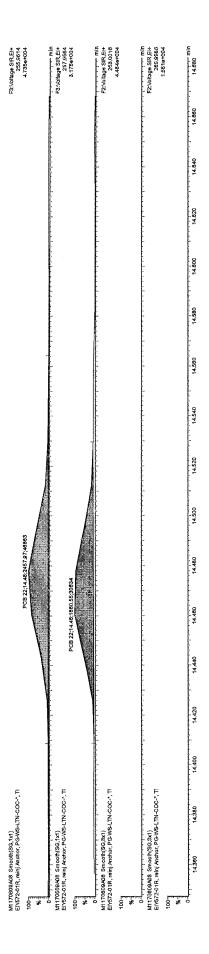
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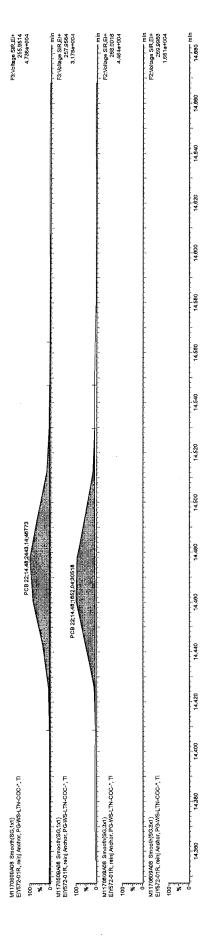


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EINST24448 Bayli Anchor, PG-WS-LTN-COC--, TI
1007 15.93 M170809A08 Smooth(SG.3x1)
EIY572-01R, reinj Anchor, PG-WS-LTN-CCC-*, TI M1170809A08 Smooth(SG,3X1) EIY572-018, reinj Anchor, PG-WS-LTN-COC-*, TI

2017-06-12 Before MT2 M3

6-1 2017 2613

PCB 35;16,10;857.64;13122 Mt 170609A08 Smooth(SG,1x1) EIY572-01R, relisj Anchor, PG-WS-LTN-COC-*, Ti M1770009A08 Smooth(50.;x1)
EIYS72-4268 gain Anchor, PG-WS-LTN-COC--, TI
1007 15.83 M1170609A08 Smooth(SG3x1) EIY572-01R, reinj Anchor, PG-WS-LTN-COC-*, Ti

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MT2

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21.040 20.980 20,060 20.940 20.920 20.860 20.740 20.680 100 - % MIT/0803408 Smooth(50,341) E1972-011, birll Androt, PG-WS-LTH-COC-*, TI M1170609A08 Smooth(SG,2x1) EN572-018, rainj Andror, PG-WS-LTN-COC-*, TI 20,640

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32 Jol 706

F3:Voltage SIR,E1+ 339,9178 6,758e+600 100-%-20550 20540 20580 20580 20580 20580 20580 20580 20580 20580 20580 20580 20580 20580 20580 20580 20580 20580 20580 M170609A08 Smooth(SG,2x1) EN572-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 0-temperate proming management properties of the M1170609A08 Smooth (SG.3x1)
E19572-01R, reinj Anchor, PG-WS-LTN-COC-*, Ti

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23.240 23.160 23.140 23.120 23.000 22.980 22.980 22.940 22,920 22.840 M170609408 Smooth(SG,2x1) EN572-01R, rainj Anchor, PG-WS-LTN-COC-*, TI

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Before M2

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MT2

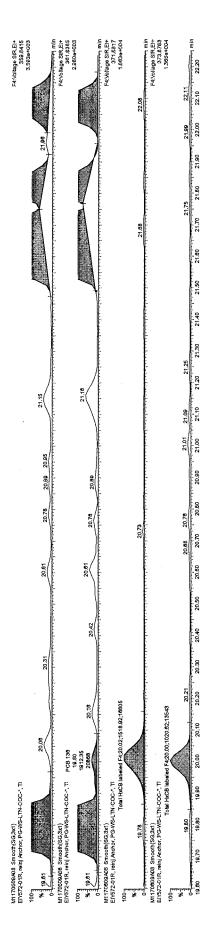
Maxxam Analytics

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	-	•			22.840
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G-WS-LTN-C		CZd)	G-WS-LTN-C	SG-WS-LTN-C	22.800
M170609A08 Smooth(SG,2x1) EIY572-01R, rainj Anchor, PG-WS-LTN-COC, TI	100	M170609A9 Smooth(SG2X1) ENS72-019Cbhightehor, PG-WS-LTN-CGC-*, TI 22.78 436.82 436.82	2-01R,	M170909408 Smooth(56.30f) Eis52-018, rahij Arahor, PG-WS-LTN-CCC-*, TI	0 22.780

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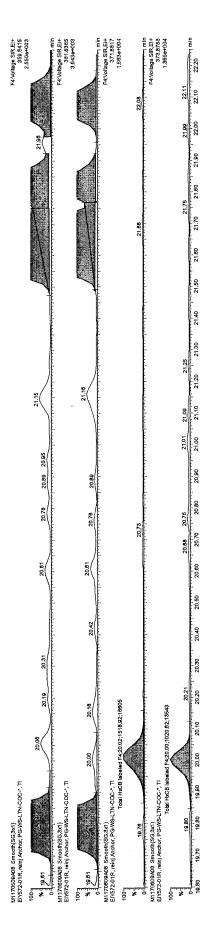
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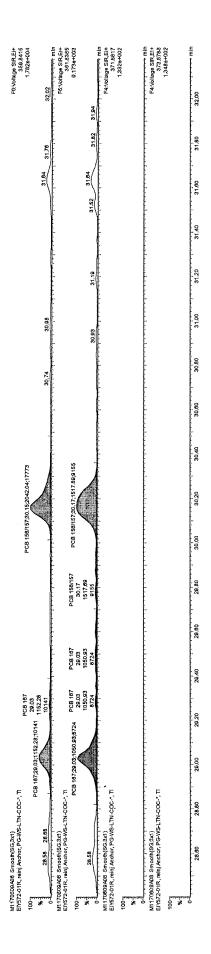
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2017-06-12

MT2

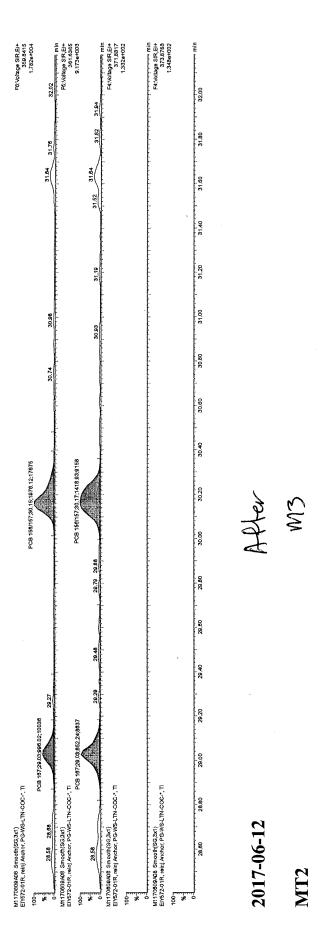


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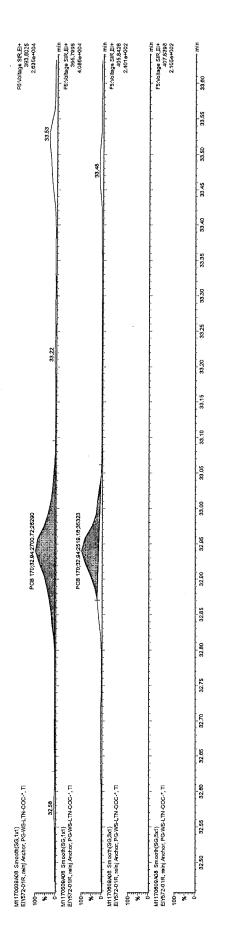


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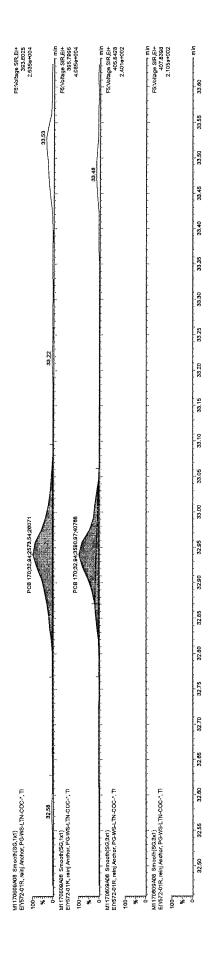


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2017-06-12

MT2

Maxxam Analytics

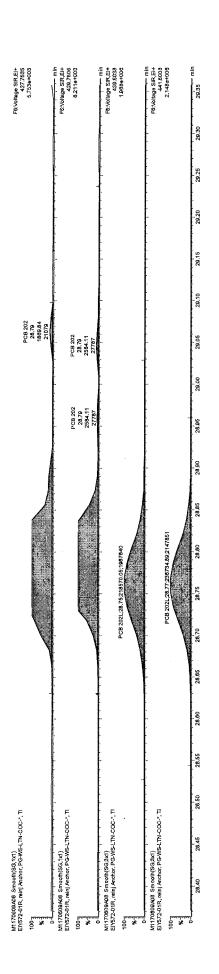


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2017-06-12

MT2

Maxxam Analytics

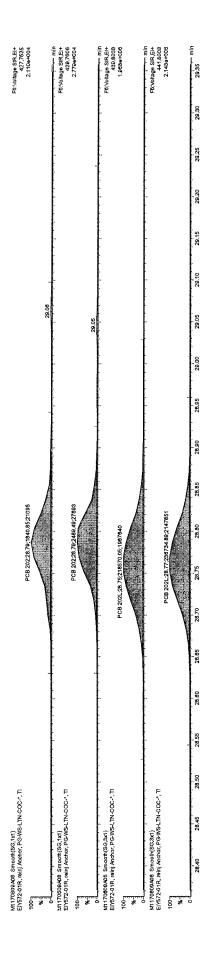


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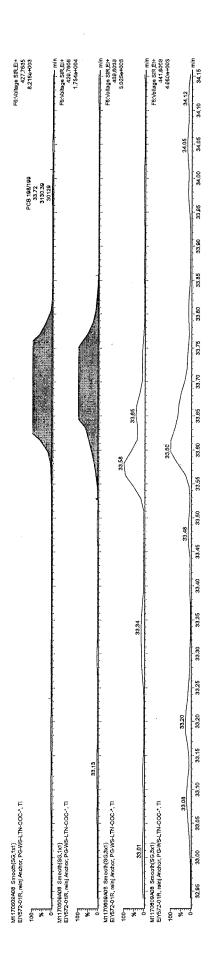
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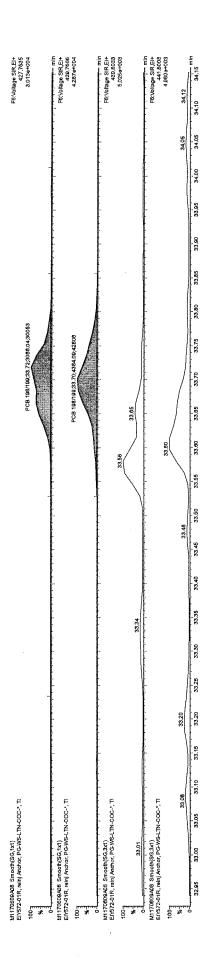
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MT2



2017-06-12 Before M73

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2017-06-12

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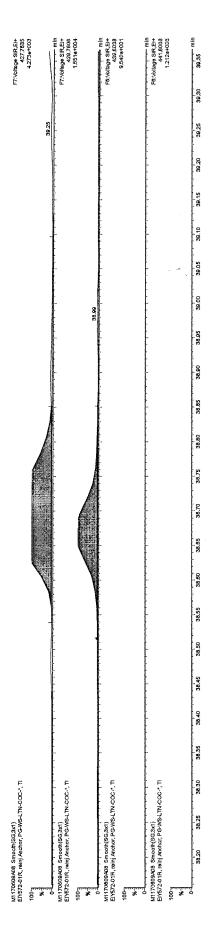
40.70 PCB 194 38.67 2510.57 18598 40.00 38.67 2510.57 18598 38.67 2510.57 18598 38.87 2510.57 39.30 39.20 PCB 194 38.67 2510.57 18598 PCB 194 38.69 1228.37 8898 38.90 38.30 38.40 38.50 38.60 38.70 PCB 194 38.67 2510,57 18598 9CB 194 38.67 2510.57 18598 PCB 194 38.67 2510,57 18598 37.90 38.00 38.10 M1170608A08 Smooth(SG,3X1) EIY572-01R, reinj Anchor, PG-WS-ETN-COC-1, TI 37.80

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F7:Voltage SIR.Ei+ 461.7246 1.394e+004 41.10 41.15 41.20 41.25 41.30 41.35 41.40 41.45 41.50 41.55 41.80 41.85 41.70 41.75 PCB 208;41 22;2305 28;13885 PCB 206L;41.19;72162.48;550519 40.95 41.00 41.05 40.15 40.20 40.25 40.30 40.35 40.40 40.45 40.50 40.55 40.80 40.85 40.70 40.75 40.80 40.85 40.90 PCB 200 41.22 2305.26 13885 PCB 208 41.22 2305.26 13885 M1170609406 Smooth(SG,3x1) EN572-01R, reinj Anchor, P.G-WS-LTN-COC-*, TI M1170609A08 Smooth(SG,3XI) ElY572-01B, reinj Anchor, PG-WS-LTN-COC-*, TE 4021

Before

2017-06-12

MT2

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EN DOLLOW

F7:Voltage SIR,E1+ 475.7019 5,507e+005 41.30 41.35 41.40 41.45 41.50 41.55 41.60 41.65 41.70 41.75 40,75 40,80 40,85 40,50 40,95 41,00 41,05 40.30 40.35 40.40 40.45 40.50 40.55 40.80 40.65 40.70 M1170608408 Smooth(SG3X1) EIV572-01R, reinj Anchor, PG-WS-LTN-COC--, Ti M1170609A08 Smooth(SG,3xt) EIY572-01R, reinj Anchor, PG-WS-LTN-COC--, TI M1170609408 Smooth(SG,3x1) ElY572-01R, reinj Andhor, PG-WS-LTN-COC.*, TI 0-4 M170809AD8 Smooth(SG.3x1) EIY572-01R, minj Anchor, PG-WS-LTN-COC-*, TI 40,25 40.21 40.20 40.15

After. M3

2017-06-12

MT2

8-1 20 May 2613

F7:Voltage SIR,E1+ 509.7220 4.382e+005 F7:Voltage SIR,E1+ 511,7198 3,970e+005 43.42 43,300 M1170609A08 Smooth(SG,3x1) EIY572-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 42.78 0 0 M170609A06 Smooth(SG,3x1) EIY572-01R, reinj Anchor, PG-WS-LTN-COC-*, TI 42,700

E1 30 MS

2017-06-12

MT2

Before

Maxxam Analytics

F7:Voltage SIR,EI+ 497,6826 3,255e+003 M170608A08 Smooth(SG,3X1) EIY572-01R, reinj Anchor, PG-WS-LTN-COC-*, Ti

2017-06-12

MT2

Affer M3 Filename M1170609A04 Acquired 2017/06/09 13:12

Cali File PCB209_M1170609A

Sample ID EIY574-01R Comments Instrument File Ultima 1 Sample Size 10.016

Dil Fac 1.00

5X

ile Size 10.016	DII Fac	1.00											
Name 1 PCB 1 (IUPAC)	mass 188	RT 8.81	Area -282	ratio 3.13	Tot Area -372.096	ng/g -0.000218862	Code PCB 1 (IUPAC) NDR	Isomera	DL -0.000196331	S/N 3	Mod xL	rrf 1.053	Rec
2 PCB 2	MoCB 190 188	8.81 NotFnd	+90.0958	ok •	•	-0.000174021			-0.000174021	3	no	1.188	-
3 PCB 3	MoCB 190 188	9.92 NotFnd	•	no •	•	-0.000195959			-0.000195959		no	1.055	_
4 PCB 4	MoCB 190 222	10,01 NotFnd	•	no *		-0.000588298			-0.000588298		no	1.191	_
5 PCB 10	DICB 224 222	10.12 NotFnd		no *		-0.000587805			-0.000587805		no	1.192	
	DiCB 224	10.21	•	no									-
6 PCB 9	222 DiCB 224	NotFnd 11.01	•	no		-0.00035658			-0.00035658		no	1,471	•
7 PCB 7	222 DiCB 224	NotFnd 11.09	:	no	•	-0.000370692			-0.000370692		no	1.415	-
8 PCB 6	222 DICB 224	NotFnd 11.19	*	no	•	-0.000361994			-0.000361994	*	no	1.449	•
9 PCB 5	222 DICB 224	NotFnd 11.31	•	· no		-0.00043278			-0.00043278	*	no	1.212	-
10 PCB 8	222 DICB 224	11.36 11.37	2458 1827	1.35	4285	0.001163			-0.000300762	17	yes	1.744	-
11 PCB 14	222	NotFnd		yes •	•	-0.000360501			-0.000360501	22	по	1.455	-
12 PCB 11	DICB 224 222	12.05 12.42	14020	no 1.5	23371	0.007562			-0.00035853	96	yes	1.463	-
13 PCB 13/12	DiCB 224 222	12.42 NotFnd	9351	yes		-0.000368091			-0.000368091	108	no	1.425	-
14 PCB 15	DiCB 224 222	12.56 12.70	• -1741	no 1.56	-2857.03	-0.000877986	PCB 15 NDR		-0.000548671	12	xL.	0.956	-
15 PCB 19	DiCB 224 256	12.70 11.48	-1116.03 409	OK 2.57	568	-0.000742772			-0.000742772	22	yes	1.06	_
16 PCB 30/18	TriCB 258 256	11.48 12.27	159 2954	no 1.11	5626	0.001945			-0.000752713	23	no	1.046	
17 PCB 17	TriCB 258 256	12.27 12.48	2671 11 78	yes 1.14	2209	0.000959				26			-
	TrCB 258	12.48	1032	yes					-0.000945183	10 8	no	0.833	•
18 PCB 27	256 TriCB 258	12.56 12.56	487 499	0.98 yes	986	-0.000642725			-0.000642725	*	yes	1.225	-
19 PCB 24	256 TriCB 258	NotFnd 12.61		по	•	-0.000709313			-0.000709313		no	1.11	-
20 PCB 16	256 TriCB 258	12.68 12.69	694 563	1.19 yes	1277	-0.001069752			-0.001069752	•	yes	0.736	-
21 PCB 32	256 TriCB 258	12.90 12.90	-1177 -1131.73	1.04 OK	-2308.73	-0.000642915	PCB 32 NDR		-0.000602862	10 19	хL	1.306	-
22 PCB 34	256 TriCB 258	NotFnd 13.48	•	ro	*	-0.000209634			-0.000209634	*	no	1.367	-
23 PCB 23	256 TriCB 258	NotFnd 13.56		no	•	-0.000215954			-0.000215954	•	no	1.327	-
24 PCB 26/29	256	13.72	-1295	1.04	-2540.19	-0.00065104	PCB 26/29 NDR		-0.000201952	11	xL	1.419	-
25 PCB 25	TriCB 256 256	13.72 13.84	-1245.19 7 36	0K 1	1471	0.000376			-0.000202666	13 6	yes	1.414	-
26 PCB 31	TriCB 258 256	13.85 13.99	735 6333	yes 1.04	12412	0.002965			-0.00018928	6 52	no	1.514	
27 PCB 28/20	TriCB 258 256	14.01 14 .15	6079 8633	yes 1.12	16307	0.004165			-0.00020238	52 72	по	1.416	_
28 PCB 21/33	TriCB 258 256	14.16 1 4.2 7	7675 300 7	yes 1.09	5776	0.001454			-0.000199562	65 22	по	1.436	_
29 PCB 22	TriCB 258 256	14.27 1 4.48	2769 2061	yes 0.95	4237	0.001145			-0.000214178	23 16	по	1.338	_
30 PCB 36	TrICB 258 256	14.47 15.27	2176 -372.32	yes 1.04	-730.32	-0.000175918	PCB 36 NDR		-0.000175918	16	Ор-О	1.629	
31 PCB 39	TriCB 258	15.30	-358	OK	+730.32		FCB 30 NDK			:	·		-
	256 TriCB 256	NotFnd 15.50		no		-0.000195079			-0.000195079	•	по	1.469	-
32 PCB 36	256 TriCB 256	NotFnd 15.91	. •	по	·	-0.000198456			-0.000198456	:	по	1.444	-
33 PCB 35	256 TriCB 258	16.12 16.10	-471.12 -453	1.04 OK	-924.12	-0.000239549	PCB 35 NDR		-0.000204255	4 4	хL	1.403	-
34 PCB 37	256 TrICB 258	16.36 16.36	-2728 -2623.08	1.04 OK	-5351.08	-0.00132174	PCB 37 NDR		-0.000301336	20 24	хL	0.951	-
35 PCB 54	290 TCB 292	NotFnd 12.82	•	no	•	-0.000776149			-0.000776149	*	no	1.071	-
36 PCB 53/50	290 TCB 292	1 3.85 13.86	940 1409	0.67	2348	0.00087			-0.000453082	7	yes	0.844	-
37 PCB 45/51	290	14.24	-1486.87	yes 0.77	-3417.87	-0.001306755	PCB 45/51 NDR		-0.000466912	7 10	хL	0.819	-
38 PCB 46	TCB 292 290	14.21 14.36	-1931 264	OK 0.52	770	-0.00055825			-0.00055825	10	yes	0.685	-
39 PCB 52	TCB 292 290	14.35 15.08	506 11 45 5	no 0.74	26965	0.009546			-0.00043307	86	yes	0.883	-
40 PCB 73	TCB 292 290	15.05 NotFnd	15510	yes *	*	-0.000324343			-0.000324343	86	по	1.179	-
41 PCB 43	TCB 292 290	15.14 15,22	164	no 0.62	429	-0.000633114			-0.000633114		yes	0.604	_
42 PCB 69/49	TCB 292 290	15,21 15,36	264 -5878	no 0.77	-13511.8	-0.004491421	PCB 69/49 NDR		-0.000405946	* 42	xL	0.942	_
43 PCB 48	TCB 292 290	15.34 15.53	-7633.77 -1047	OK 0.77	-2406.74	-0.000923553	PCB 46 NDR			50			-
	TCB 292	15.50	-1359.74	OK			I OB 40 NDK		-0.000468629	7 9	хL	0.816	•
44 PCB 44/47/65	290 TCB 292	15.67 15.64	1 6251 22258	0.73 yes	38509	0.013333			-0.000423478	97 101	yes	0.903	-
45 PCB 59/62/75	290	15.86	-960.19	0.77	-2207.19	-0.000633487	PCB 59/82/75 NDR		-0.000350505	6	хL	1.091	-

	TCB 292	15.84	-1247	ок					. 6			
46 PCB 42	290 TCB 292	15.97	1839	0.71	4443	0.001873		-0.000516061	13	yes	0.741	-
47 PCB 40/41/71	290	15.94 16.24	2604 -3004	yes 0.77	-6905.3	-0.002555846	PCB 40/41/71 NDR	-0.000452011	14 17	хL	0.846	
48 PCB 64	TCB 292	16.23 16.38	-3901.3	OK 0.74	0040	0.000055		0.000374003	25		1.02	
48 PCB 04	290 TCB 292	16.37	4109 5539	0.74 yes	9648	0.002956		-0.000374903	24 29	yes	1.02	•
49 PCB 72	290 TCR 202	NotFnd	•	•	•	-0.000492318		-0.000492318	*	no	1.392	-
50 PCB 68	TCB 292 290	16.90 17.04	4561	no 0.85	9906	0.002242		-0.000496239	13	no	1.381	_
E4 DCD E7	TCB 292	17.09	5344	yes		0.000000000		0.000500500	12		4.050	
51 PCB 57	290 TCB 292	NotFnd 17.36	•	no	•	-0.000506509		-0.000506509	*	no	1.353	-
52 PCB 58	290	NotFnd		*	•	-0.000516822		-0.000516822		no	1.326	-
53 PCB 67	TCB 292 290	17.51 17.60	360	no 0.8	810	-0.000504273		-0.000504273	*	yes	1.359	
	TCB 292	17.59	450	yes								
54 PCB 63	290 TCB 292	17.7 7 17.76	567 632	0.9 no	1198	-0.000486033		-0.000486033	+	yes	1.41	-
55 PCB 61/70/74/76		18.00	18420	0.83	40564	0.009715		-0.000525139	38	no	1.305	-
56 PCB 66	TCB 292 290	18.01 1 8.22	22144 9467	yes 0.79	21389	0.004949		-0.000507259	36 26	no	1.351	_
57 PCB 55	TCB 292 290	18.24	11922	yes		0.000530700		0.000500700	24		4.070	
57 FCB 55	TCB 292	NotFnd 18.37	•	no		-0.000538763		-0.000538763	*	no	1.272	-
58 PCB 56	290 TCB 292	18.69 18.70	-2894 -3758,44	0.77 OK	-6652.44	-0.001581677	PCB 56 NDR	-0.000520354	8 10	xL	1.317	-
59 PCB 60	290	18.84	1608	0.81	3604	0.000894		-0.000544326	5	no	1.259	-
60 PCB 80	TCB 292 290	18,87 NotFnd	1996	yes *		-0.000459321		-0.000459321	4		1.492	
	TCB 292	19.10	•	no		-0.000458321		-0.000459321	٠	no	1.492	•
61 PCB 79	290 TCB 292	20.25 20.23	400 474	0.84	874	-0.000444715		-0.000444715	*	yes	1.541	-
62 PCB 78	290	NotFnd	4/4	yes *	•	-0.000483291		-0.000483291	•	no	1.416	
63 PCB 81	TCB 292 290	20.68 NotFnd	*	no *		-0.000671869		-0.000671869	•	no.	1.02	
03 F CB 01	TCB 292	21.01	*	no		-0,000071609		-0.000071809		no	1.02	-
64 PCB 77	290 TCB 292	2 1.44 21.44	1 519 2221	0.68	3739	0.000878		-0.000674514	3 4	no	1.016	-
65 PCB 104	326	NotFnd	*	yes.	•	-7.66735E-05		-7.66735E-05	;	no	1.194	_
66 PCB 96	PeCB 328 326	15.64 15.84	-266.6	no 1.55	-438.6	-0.000161054	PCB 96 NDR	-0.000113583	7	хL	0.806	
	PeCB 328	15.85	-172	OK		-0.000101004	7 OB 30 NDIX	-0.000110505	7	XL.	0.000	-
67 PCB 103	326 PeCB 328	16.99 16.98	532 324	1.64 yes	857	0.000308		-0.000199692	5 6	yes	0.824	-
68 PCB 94	326	NotFnd	*	*	•	-0.00024486		-0.00024486	÷	no	0.672	-
69 PCB 95	PeCB 328 326	17.12 17 .42	16825	no 1.72	26616	0.009993		-0.000208286	157	no	0.79	
	PeCB 328	17.40	9791	yes					1.45	110		
70 PCB 100/93/102/	98 326 PeCB 328	17.67 17.54	1279 806	1.59 yes	2085	0.000852		-0.000226336	6 9	no	0.727	-
71 PCB 88/91	326	18.00	3774	1.73	5952	0.002418		-0.000225406	32	no	0.73	-
72 PCB 84	PeCB 328 326	17.95 18.15	2178 39 34	yes 1.43	6677	0.003077		-0.000255506	32 36	no	0.644	
	PeCB 328	18.12	2743	yes					36			
73 PCB 89	326 PeCB 328	18.48 18.45	312 230	1.36 yes	541	-0.00023373		-0.00023373		yes	0.704	-
74 PCB 121	326	NotFnd	•	•	•	-0.000166882		-0.000166882	•	no	0.986	-
75 PCB 92	PeCB 328 326	18.70 18.98	6512	no 1.44	11031	0.004451		-0.000223872	55	no	0.735	
	PeCB 328	18.96	4519	yes					60			
76 PCB 113/90/101	326 PeCB 328	19.41 19.38	34159 24034	1.42 yes	58193	0.019954		-0.000190227	292 317	no	0.865	-
77 PCB 83/99	326	19.85	24626	1.54	40643	0.015904		-0.000217079	203	no	0.758	-
78 PCB 112	PeCB 328 326	19,84 NotFnd	16017	yes *	•	-0.000175422		-0.000175422	198	no	0.938	
70 DOD 400/440/005	PeCB 328	19.92	40054	no	00004				•			
79 PCB 109/119/86/	PeCB 328	20.23 20.21	16854 11368	1.48 yes	28221	0.009565		-0.000187838	83 87	yes	0.876	-
80 PCB 117/116/85	326 PeCB 328	20.78 20.76	590 1 3439	1.72	9340	0.003012		-0.000178854	48 42	yes	0.92	-
81 PCB 110/115	326	20.76	32980	yes 1.37	57019	0.017776		-0.000172843	259	no	0.952	-
82 PCB 82	PeCB 328 326	20.88 21.18	24040 -1559.3	yes 1.55	-2565.3	-0.001113248	PCB 82 NDR	-0.00024127	289 20	хL	0.682	
02 FCB 02	PeCB 328	21.15	-1006	OK		-0.001113246	PCB 02 NDR	40.00024127	11	XL	0.002	-
83 PCB 111	326 PeCB 328	NotFnd 21.45	:	•	•	-0.000164546		-0.000164546	*	no	1	~
84 PCB 120	326	21.45	574	no 3.04	763	-0.000151098		-0.000151098		Op-O	1.089	~
85 PCB 108/124	PeCB 328 326	21.81 22.76	189 1493	10 1.57	2443	0.000597		0.000482728	* 8		4 242	
65 PGB 106/124	PeCB 328	22.78	950	1.57 yes	2443	0.000057		-0.000182738	8	no	1.213	-
86 PCB 107	326 PeCB 328	22.97 22.98	4342 3074	1.41	7417	0.001594		-0.000160624	24 28	yes	1.38	-
87 PCB 123	326	23.04	-626	yes 1.55	-1029.87	-0.000287498	PCB 123 NDR	-0.000240675	7	хL	0.921	-
88 PCB 106	PeCB 328 326	23.08 NotFnd	-403.871	ok *		-0.000192414		-0.000192414	8	no	1.152	_
	PeCB 328	23.19		no					•			
89 PCB 118	326 PeCB 328	23,35 23.33	42743 26934	1.59 yes	69677	0.01814		-0.000215624	233 234	no	1.028	-
90 PCB 122	326	23.66	371	1.49	620	-0.000190431		-0.000190431		yes	1.164	-
91 PCB 114	PeCB 328 326	23.63 23.82	249 389	yes 1.04	763	-0.000216678		-0.000216678	*	yes	1.023	_
	PeCB 328	23.82	374	no					*			-
92 PCB 105	326 PeCB 328	24.39 24.38	18838 13103	1.44 yes	31941	0.00845		-0.000216466	10 1 115	no	1.024	-
93 PCB 127	326	NotFnd	*	*	•	-0.000170247		-0.000170247	*	no	1.302	-
94 PCB 126	PeCB 328 326	25.69 NotFnd		no *		-0.000202801		-0.000202801		no	1.093	_
	PeCB 328	27.22	•	no		•		•	•			

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95 PCB 155	360	19.26	237	1.69	377	-0.000203518		-0.000203518	•	yes	1.103	-
96 PCB 152	HxCB 362 360	19.26 NotFnd	141	no *		-0.000263784		-0.000263784	•	no	0.851	-
97 PCB 150	HxCB 362 360	19.40 NotFnd		no •		-0.000310056		'-0.000310056		no	0.724	_
98 PCB 136	HxCB 362 360	19.53 19.80	• -2615	no 1,24	-4723.87	-0.002500039	PCB 136 NDR		* 18	хL	0.787	
	HxCB 362	19.78	-2108.87	OK	4/23.07		PCB 130 NDK	-0.000285236	26			-
99 PCB 145	360 HxCB 362	NotFnd 20.03	:	no	•	-0.000305832		-0.000305832		no	0.734	-
100 PCB 148	360 HxCB 362	NotFnd 21.13	:	no	•	-0.000371042		-0.000371042	*	no	0.605	-
101 PCB 151/135	360 HxCB 362	21.63 21.61	9495 8034	1.18	17529	0.012863		-0.000385044	54 58	no	0.583	-
102 PCB 154	360	21.84	1694	yes 1.06	3297	0.002101		-0.000334546	12	no	0.671	-
103 PCB 144	HxCB 362 360	21.82 22.10	1603 1220	yes 1.3	2156	0.001487		~0.000362065	15 9	no	0.62	-
104 PCB 147/149	HxCB 362 360	22.07 22.38	935 37476	yes 1.24	67629	0.037017		-0.000568077	9 216	yes	0.781	
105 PCB 134/143	HxCB 362 360	22,36 22.55	30153 -1149	yes 1.24	-2075.81	-0.001275088	PCB 134/143 NDR	~0.000654378	207 8	xL	0.678	_
	HxCB 362 360	22.61	-926.613	oĸ					8		0.791	
106 PCB 139/140	HxCB 362	22.90 22.88	-750.2 -805	1.24 OK	-1355.2	-0.000713593	PCB 139/140 NDR	-0.000560895	7 5	xL		•
107 PCB 131	360 HxCB 362	23.05 23.05	435 300	1.45 no	734	-0.000714441		-0.000714441	*	yes	0.621	-
108 PCB 142	360 HxCB 362	NotFnd 23.19	:	no	•	-0.000638371		-0.000638371	*	no	0.695	-
109 PCB 132	360 HxCB 362	23.45 23.44	9558 6994	1.37	16552	0.010416		-0.000653414	53 50	no	0.679	-
110 PCB 133	360	23.87	1076	yes 1.36	1869	0.001063		-0.000589984	6	no	0.752	-
111 PCB 165	HxCB 362 360	23.86 NotFnd	793	yes *	•	-0.000464574		-0.000464574	5	no	0.955	_
112 PCB 146	HxCB 362 360	24.22 24.42	+ -9870.4	no 1.24	-17830.4	-0.008420077	PCB 146 NDR	-0.000503025	* 59	хL	0.882	
113 PCB 161	HxCB 362	24.43	-7960	оĸ			, -		53			
	360 HxCB 362	NotFnd 24.54	•	no		-0.000438407		-0.000438407	*	no	1.012	-
114 PCB 153/168	360 HxCB 362	24.99 25.01	90762 70301	1.29 yes	161064	0.070806		-0.00045598	488 465	yes	0.973	-
115 PCB 141	360 HxCB 362	25.16 25.15	3546 3214	1.1 yes	6759	0.003936		-0.000604452	20 20	yes	0.734	-
116 PCB 130	360	25.53	-2546	1.24	-4599,23	-0.002721044	PCB 130 NDR	-0.00063021	13	хL	0.704	-
117 PCB 137	HxCB 362 360	25.53 25.77	-2053.23 658	OK 1.24	1189	0.000746		-0.00065054	17 5	yes	0.682	-
118 PCB 164	HxCB 362 360	25.7 6 25.84	532 3022	yes 1.2	5546	0.002208		-0.000413099	5 15	yes	1.074	_
119 PCB 138/163/129	HxCB 362 360	25.85 26.13	2524 66099	yes 1.31	116469	0.060087		~0.000535185	16 319	yes	0.829	_
120 PCB 160	HxCB 362 360	26.17 NotFnd	50370	yes	•	-0.000482248		-0.000482248	309	•	0.92	
	HxCB 362	26.31	•	no					*	по		-
121 PCB 158	360 HxCB 362	26.50 26.49	5248 4156	1.26 yes	9404	0.003697		-0.000407783	23 23	yes	1.088	-
122 PCB 128/166	360 HxCB 362	27.33 27.33	9177 8064	1.14 yes	17241	0.00826		-0.000496829	40 44	yes	0.893	-
123 PCB 159	360 HxCB 362	NotFnd 28.29	•	í. no	•	-0.000239943		-0.000239943	*	no	1.209	-
124 PCB 162	360 HxCB 362	NotFnd		•	•	-0.00024054		-0.00024054	*	no	1.206	-
125 PCB 167	360	28.55 29.05	1908	по 1.41	3257	0.000982		-0.000263002	13	no	1.103	-
126 PCB 156/157	HxCB 362 360	29.04 30.19	1349 -1556.2	yes 1.24	-2811.2	-0.000996582	PCB 156/157 NDR	-0.000277068.	13 12	хL	1.047	-
127 PCB 189	HxCB 362 360	30.20 NotFnd	-1255	ok •		-0.000278933		-0.000278933	10	no	1.04	_
128 PCB 188	HxCB 362	33.58 23.80	+ -246.75	no 1.05	-481.75	-0.000283033	PCB 188 NDR	-0.000283033	•		1.069	
	394 HpCB 396	23.80	-235	OK					•	Op-O		-
129 PCB 179	394 HpCB 396	24.09 24.09	-3227 -3073.33	1.05 OK	-6300.33	-0.000271844	PCB 179 NDR	-0.000271844		хL	1.113	-
130 PCB 184	394 HpCB 396	NotFnd 24.56	*	no	•	-0.000283298		-0.000283298	*	no	1.068	-
131 PCB 176	394	24.85	-1571	1.05	-3067.19	-0.000290089	PCB 176 NDR	~0.000290089		хL	1.043	-
132 PCB 186	HpCB 396 394	24.87 NotFnd	-1496.19	ok *	•	-0.000307482		-0.000307482	•	no	0.984	-
133 PCB 178	HpCB 396 394	25.28 26.55	3701	no 0.93	7682	0.0051		-0.000396024	30	yes	0.764	-
134 PCB 175	HpCB 396 394	26.56 27.16	3982 704	yes 1,18	1301	0.000812		-0,000372156	36 6	yes	0.813	_
135 PCB 187	HpCB 396 394	27.16 27.42	597 2781 8	yes 1	55556	0.034271		-0.000367634	7 245	no	0.823	
	HpCB 396	27.39	27738	yes	20000				257			-
138 PCB 182	394 HpCB 396	NotFnd 27.61		no		-0.000380104		-0.000380104	•	no	0.796	•
137 PCB 183	394 HpCB 396	28.02 27.99	10110 9828	1.03 yes	19938	0.009521		-0.000505577	52 49	yes	1.063	-
138 PCB 185	394 HpCB 396	NotFnd 28.08	•	´• no	•	-0.0006554		-0.0006554	•	no	0.82	-
139 PCB 174	394	28.25	7591	0.98	15306	0.008561		-0.000592534	40	yes	0.907	-
140 PCB 177	HpCB 396 394	28.24 28.65	7715 8118	yes 0.98	16411	0.009348		-0.000603174	42 41	no	0.891	-
141 PCB 181	HpCB 396 394	28.65 NotFnd	8293	yes		-0.000597143		-0.000597143	49	no	0.9	_
	HpCB 396 394	29.06 29,29	+ -1376.55	no 1.05	-2687.55	-0.001561384	PCB 171/173 NDR	-0.000614907	25	x L	0.874	
	HpCB 396 394	29.28 NotFnd	-1311	ok	*	-0.000595159		-0.000595159	17	no	0.903	
	HpCB 396	30.93	•	no								•
144 PCB 192	394	NotFnd	•	•	•	-0.000488127		-0.000488127	•	no	1.101	-

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145 PCB 193/180	НрСВ 396 394	31.24 31.61	• 7406	no 1.08	14261	0.006774		-0.000464502	* 30	yes	1.157	
146 PCB 191	HpCB 396 394	31.59 32.02	6855 514	yes 1.13	969	-0.000435517		-0.000435517	31	yes	1.234	_
	HpCB 396	31.97	455	yes					*	•		
147 PCB 170	394 HpCB 396	32.92 32.94	-2098 -1998.1	1.05 OK	-4096.1	-0.002440722	PCB 170 NDR	-0.000458948	10 14	хL	1.171	-
148 PCB 190	394	33.48	693	1.13	1309	0.000532		-0.000430977	6	yes	1.247	-
149 PCB 189	HpCB 396 394	33.50 NotFnd	616	yes *	*	-0.000874126		-0.000874126	8	no	0.922	
	HpCB 396	36.35		no								
150 PCB 202	428 OcCB 430	28.79 28.78	-796.55 -895	0.89 OK	-1691.55	-0.002902379	PCB 202 NDR	-0.000822704	15 12	xL	1.031	
151 PCB 201	428	29.72	-473.48	0.89	-1005.48	-0.001037731	PCB 201 NDR	-0.000786835	8	xL	1.078	
152 PCB 204	OcCB 430 428	29.70 NotFnd	-532	ok •	•	-0.000800196		-0.000800196	7	no	1.06	<u>-</u>
153 PCB 197	OcCB 430 428	30.39 30.64	189	no 1,15	352	-0.000783926		-0.000783926	•	, une	1.082	
TRANSPER	OcCB 430	30.62	164	no	302	-0.000763820		-0.000763920	•	yes	1.002	
154 PCB 200	428 OcCB 430	30.67 30.74	196 232	0.84 yes	427	-0.00083485		-0.00083485		yes	1.016	- .
155 PCB 198/199	428	33.70	2041	0.89	4342	0.009618		-0.001091645	17	no	0.777	
156 PCB 196	OcCB 430 428	33.67 NotFnd	2301	yes	4	-0.001035663		-0.001035663	24	no	0.819	· · <u>-</u>
	OcCB 430	34.41	4050.0	no								
157 PCB 203	428 OcCB 430	34.64 34.60	-1352.8 -1520	0.89 OK	-2872.8	-0.003874194	PCB 203 NDR	-0.001028131	22 14	XL	0.825	•
158 PCB 195	428 OcCB 430	36.04	-404.95	0.89	-859.95	-0.001027669	PCB 195 NDR	-0.000600147	9 4	xL	0.931	-
159 PCB 194	428	36.05 38.72	-455 193	OK 0.43	640	-0.000580808		-0.000580808	•	Ор-О	0.962	
160 PCB 205	OcCB 430 428	38.68 39.21	447 92	no 0.71	223	-0.000563243		-0.000563243		yes	0.992	
	OcCB 430	39.23	131	no	223			-0.000565245	•	yes	0.992	
161 PCB 208	462 NoCB 464	35.80 35.81	3683 5129	0.72 yes	8812	0.006108		-0.000794252	18 21	no	1.042	-
162 PCB 207	462	36.87	1356	0.74	3194	0.002504		-0.00067396	6	yes	1.228	-
163 PCB 206	NoCB 464 462	36.85 41.21	1836 -2618.77	yes 0.77	-6019.77	-0.00852894	PCB 206 NDR	-0.000813776	6 16	хL	1.017	-
	NoCB 464	41.19	-3401	OK					11			
164 PCB 209	498 DCB 500	43.06 43.09	3425 2913	1.18 yes	6338	0.011093		-0.000730046	39 40	no	1.026	-
165 PCB 1L	200	8.81	245638	3.09	325088	0.060404		0.001	1930	no	0.997	30
166 PCB 3L	202 200	8.82 1 0.00	79449 266 17 3	yes 3.18	349755	0.061698		0.001	75 2266	no	1.05	31
167 PCB 4L	202 234	9.99 10.1 1	83582 102554	yes	160172	0.067493		0.001	91		0.464	34
107 FCB 4L	236	10.10	66619	1.54 yes	169173	0.067453		0.001	431 620	no	0.464	34
168 PCB 15L	234 236	12.70 12.69	41 5825 258784	1.61 yes	674609	0.107023		0	581 1713	no	1.168	54
169 PCB 19L	268	11.48	129115	1.07	249894	0.086402		0.001	173	no	0.536	43
170 PCB 37L	270 268	11.47 16.35	120779 442055	yes 1.07	854562	0.154568		0.001	188 608	no	1.848	7 7
	270	16.35	412507	yes					738			
171 PCB 54L	302 304	12.82 12.82	113723 136703	0.83 yes	250426	0.104347		0	501 922	no	0.802	52
172 PCB 81L	302	20.99	364431	0.78	829116	0.173471		0	1184	no	1.597	87
173 PCB 77L	304 302	20.97 21.42	464685 365722	yes 0.78	837080	0.174078		0	1840 1184	no	1.607	87
174 PCB 104L	304 338	21.42	471359 234958	yes		0.154952		•	1841			
174 FOB 104L	340	15.62 15.65	146935	1.6 yes	381892	0.154952		0	8418 7724	no	0.912	78
175 PCB 123L	338 340	23.05 23.04	483550 297042	1.63 yes	780592	0.182632		. 0	2341 1037	no	1.581	91
176 PCB 118L	338	23.33	455196	1.57	745909	0.182749		0	2177	no	1.51	92
177 PCB 114L	340 338	23.33 23.80	290712 441500	yes 1.59	718957	0.180767		0	1014 2096	no .	1.471	91
	340	23.80	277458	yes					972			
178 PCB 105L	338 340	24.35 24.36	451345 285484	1.58 yes	736829	0.183115		0	2088 962	no	1.488	92
179 PCB 126L	338	27.19	391093	1.6	635448	0.163151		0	1716	no	1.44	82
180 PCB 155L	340 372	27.18 19.24	244355 280039	yes 1.27	499846	0.186629		0	778 13138	no	1.01	93
181 PCB 167L	374 372	19.26 29.01	219807 338143	yes 1.29	60068 5	0.159119		0	5601 1362	no	1,424	80
	374	29.00	262542	yes					1634	110		
182 PCB 156L/157L	372 374	30.17 30.14	600759 477010	1.26 yes	1077769	0.272021		0	1986 2452	no	1.495	68
183 PCB 169L	372	33.55	128324	1.28	228544	0.056802		0	475	no	1.518	28
184 PCB 188L	374 406	33.54 23.78	100220 290362	yes 1.1	554399	0.183058		0	564 3732	no	1.142	92
	408	23.78	264037	yes				0.004	9459			440
185 PCB 180L	406 408	31.59 31.58	1 84413 178858	1.03 yes	363271	0.284407		0.001	1639 1929	no	1.343	142
186 PCB 170L	406 408	32.90 32.89	1 46606 139138	1.05	285744	0.263182		0.001	1277 1452	no	1.141	132
187 PCB 189L	406	36.31	192102	yes 1.08	370706	0.20265		0.001	684	no	1.923	101
188 PCB 202L	408 440	36.29 28.75	178604 5 34 71	yes 0.9	112714	0.179452		0	1068 1845	no	1.353	90
	442	28.76	59242	yes					1307			
189 PCB 205L	440 442	39.19 39.19	116163 129420	0.9 yes	245584	0.181311		0.001	680 1249	no	1.424	91
190 PCB 208L	474	35.78	119735	0.76	276482	0.221984		0.001	1044	no	1.309	111
191 PCB 206L	476 474	35.79 41.19	156747 60544	yes 0.78	138508	0.157666		0.001	1538 513	no	0.924	79
	476	41.20	77964	yes					720			
192 PCB 209L	510 512	43.04 43.06	60502 50649	1.19 yes	111150	0.141062		0	1606 2055	no	0.828	71
193 PCB 28L PCB Cleanup St	268 andard 270	14.13 14.13	459211 450679	1.02	909890	0,154441		0.001	693 873	no	1.969	70
, oo oleanup St		17.10	700019	yes					010			

PCB 111L	338	21.42	462556	1.61	749875	0.202007		0	7003	no	1.373	91
PCB Cleanup Standard	340	21.41	287319	yes								
PCB 178L	406	26.51	209840	1.06	407011	0,209655		0		no	0.732	95
PCB Cleanup Standard	408	26.52	197171	yes					6760			
PCB 31L	268	NotFnd	*		•			0.001		no	1.878	
PCB Audit Standard	270	13.98	•	no								
PCB 95L	338	NotFnd	•	•	•			0		no	0.916	
PCB Audit Standard	340	17.40	•	no								
PCB 153L	372	24.96	7218	1.52	11968	0.00385		0	52	no	1.173	2
PCB Audit Standard	374	24.98	4751	no								
PCB 9L	234	10.99	3683436	1.6	5985867	14.66358		-	5282	no	-	-
PCB Recovery Standard	236	11.00	2302431	yes					15783			
	302	15.07	1460420	0.79	3318900	14.423998		-	4637	no	-	-
PCB Recovery Standard	304	15.05	1858480	yes					11722			
PCB 101L	338	19.40	1844338	1.6	2999035	14.271831		-	29100	по	-	-
PCB Recovery Standard	340	19.36	1154697	yes					15794			
		26.10	1651208	1.28	2940245	13.57359		-	11909	no	-	-
	374	26.07	1289037	yes					17806			
		38.65	504162	0.92	1055115	6.119354			2952	no	-	-
	442	38.59	550953	yes					5333			
Chlorohinhenvis						-0.000196331	0	-0.000196331				
						0.008725	2	-0.000588298				
						0.013009	. 7	-0.001069752				
						0.047256	10	-0.000776149				
						0.116091	15	-0.000255506				
						0.215669	14	-0.000714441				
						0.074919	8	-0.000874126				
						0.009618	1	-0.001091645				
						0.008612	2	-0.000813776				
						0.011093	1	-0.000730046				
PCB (total)						0.504992						
	PCB Cleanup Standard F PCB 178L PCB Cleanup Standard PCB 31L PCB Audit Standard PCB 931L PCB Audit Standard PCB 93L PCB Audit Standard PCB 93L PCB Audit Standard PCB 95L PCB Recovery Standard PCB 95L PCB Recovery Standard PCB 181L PCB Recovery Standard PCB 191L PCB Recovery Standard PCB 194L PCB Recovery Standard PCB 195L PCB Recovery Standard PCB 194L PCB Recovery Stan	PCB Cleanup Standard 340 PCB 178L PCB 178L PCB 178L PCB 178L PCB Oleanup Standard 408 PCB Cleanup Standard 270 PCB 9SL PCB Audit Standard 374 PCB Audit Standard 374 PCB Audit Standard 374 PCB Audit Standard 374 PCB Recovery Standard 236 PCB 52L PCB Recovery Standard 304 PCB Recovery Standard 304 PCB 181L 338 PCB Recovery Standard 304 PCB Recovery Standard 374 PCB 181L 440 PCB Recovery Standard 374 PCB 184L PCB 184L 440 PCB Recovery Standard 442 Chlorobiphenyls Dichlorobiphenyls Trichlorobiphenyls Pentachlorobiphenyls Pentachlorobiphenyls Hexachlorobiphenyls Octachlorobiphenyls Octachlorobiphenyls Octachlorobiphenyls Nonachlorobiphenyls Nonachlorobiphenyls Nonachlorobiphenyls Nonachlorobiphenyls Octachlorobiphenyls	PCB Cleanup Standard 340 21.41 5 PCB 178L 406 26.51 PCB Cleanup Standard 408 26.52 PCB 31L 268 NotFnd PCB Audit Standard 270 13.98 PCB Audit Standard 340 17.40 8 PCB Audit Standard 374 24.98 PCB Audit Standard 374 24.98 PCB Audit Standard 374 10.99 PCB Recovery Standard 236 11.00 9 PCB 75 PCB 1 32 15.07 PCB Recovery Standard 304 15.05 PCB 101L 338 19.40 PCB Recovery Standard 374 26.07 8 PCB 184L 440 38.55 PCB 194L 440 38.55 PCB Recovery Standard 442 38.59 PCB Recovery Standard 442 88.59 PCB Recovery Stand	PCB Cleanup Standard 340 21.41 287319 FCB 178L 406 26.51 209840 PCB Cleanup Standard 408 26.52 197171 B PCB 31L 268 NolFnd 13.98 10.00	PCB Cleanup Standard 340 21.41 287319 yes S PCB 178L 406 26.51 209840 1.06 PCB Cleanup Standard 408 26.52 197171 yes S PCB 31L 268 NolFnd 13.98 nolFnd 270 13.98 nolFnd 270 PCB Audit Standard 270 13.98 nolFnd 270 PCB Audit Standard 340 17.40 no 8 PCB Audit Standard 340 17.40 no 9 PCB Audit Standard 372 24.96 7218 1.52 PCB Audit Standard 374 24.98 4751 no 9 PCB 9L 234 10.99 3683436 1.6 PCB Recovery Standard 236 11.00 2302431 yes PCB Recovery Standard 370 15.07 1460420 0.79 PCB Recovery Standard 370 15.05 1858480 yes PCB Recovery Standard 371 15.05 1858480 yes PCB Recovery Standard 372 26.10 1651208 1.28 PCB 138L 372 26.10 1651208 1.28 PCB Recovery Standard 442 38.59 550953 yes Pentachiorobiphenyls Pentachiorobiphenyls Pentachiorobiphenyls Pentachiorobiphenyls Pentachiorobiphenyls Pentachiorobiphenyls Pentachiorobiphenyls Pentachiorobiphenyls Pentachiorobiphenyls Pocachiorobiphenyls Pocachiorobiphenyls Pocachiorobiphenyls Pocachiorobiphenyls Pentachiorobiphenyls Pentachiorobiphenyl	PCB Cleanup Standard 340 21.41 287319 yes 5 PCB 178L 406 26.51 209840 1.06 407011 PCB Cleanup Standard 408 26.52 197171 yes B PCB 31L 268 NoIFnd	PCB Cleanup Standard 340 21.41 287319 yes 5 PCB 178L 406 26.51 209840 1.06 407011 0.209655 PCB Cleanup Standard 408 26.52 197171 yes 5 PCB 31L 288 NotFnd	PCB Cleanup Standard 340 21.41 287319 yes 407011 0.209655 PCB 178L 406 26.51 209840 1.06 407011 0.209655 PCB Cleanup Standard 408 26.52 197171 yes 8 PCB Audit Standard 270 13.98 nor no PCB Audit Standard 270 13.98 nor no PCB Audit Standard 340 17.40 no PCB Audit Standard 370 24.96 7218 1.52 11968 0.00385 PCB 9L 334 10.99 3683436 1.6 5985867 14.66358 PCB Recovery Standard 236 11.00 2302431 yes PCB Recovery Standard 304 15.05 1858480 yes PCB Recovery Standard 304 15.05 1858480 yes PCB Recovery Standard 304 19.36 1154697 yes PCB Recovery Standard 374 26.07 1289037 yes PCB Recovery Standard 442 38.59 550953 yes PCB	PCB Cleanup Standard 3-0	PCB Cleanup Standard 340	PCB Cleanup Standard 340 21.41 287319 yes 3712 3712 3712 3712 3712 3712 3712 3712 3712 3712 3713 3712 3713 3712 3713 3712 3713 3712 3713	PCB Cleanup Standard 340 21.41 287319 yes PCB Cleanup Standard 340 21.41 287319 yes PCB Cleanup Standard 408 26.51 209840 1.06 407011 0.209655 0 0 2633 no 0.732 PCB Cleanup Standard 408 26.52 197171 yes PCB Audit Standard 270 13.98 ' no

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Acquired Date

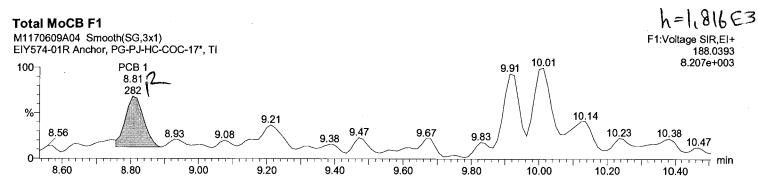
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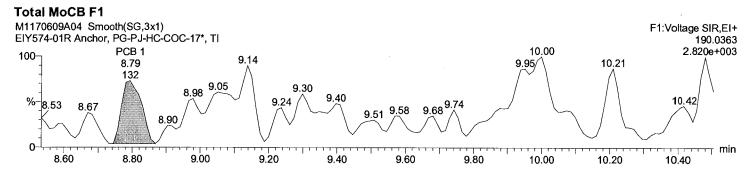
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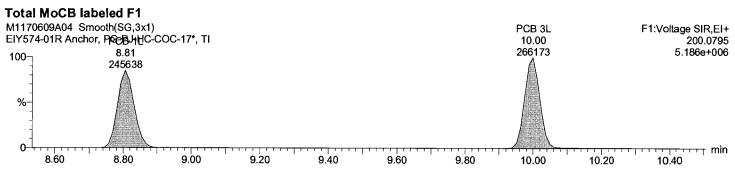
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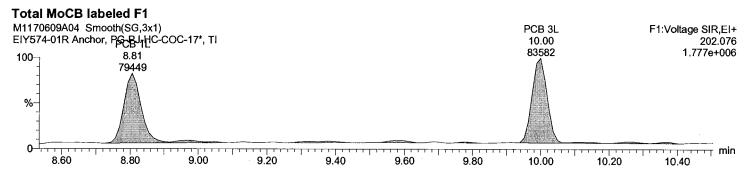
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Vial: 4

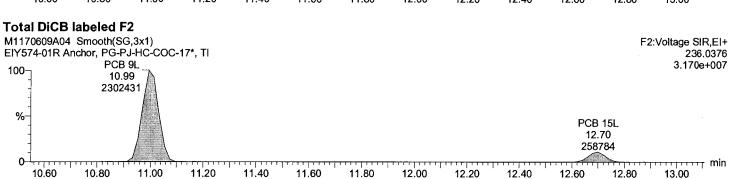


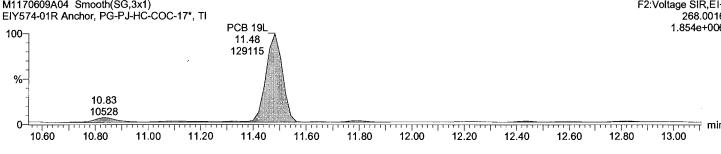






Quantify Sample Report MassLynx 4.0 SP1 Page 2 of 115 **Acquired Date** Dataset: C:\MassLynx\Default.pro\QLD\M1170609A_sample_1668A.qld Last Altered: June 12, 2017 12:46:14 PM Eastern Daylight Time Printed: June 12, 2017 12:54:14 PM Eastern Daylight Time **Description: EIY574-01R** Vial: 4 Date: 09-Jun-2017 Time: 13:12:49 Instrument: h=2917E3 **Total DiCB F1** M1170609A04 Smooth(SG,3x1) F1:Voltage SIR,EI+ EIY574-01R Anchor, PG-PJ-HC-03093-17*, TI 222.0003 2753 5.393e+004 100 % 10.14 10.21 10.31 9.04 9.26 9.83 10.44 🦳 min 8.60 8.80 9.00 9.20 9.40 9.60 9.80 10.20 10.00 10.40 **Total DiCB F1** M1170609A04 Smooth(SG,3x1) F1:Voltage SIR,EI+ EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI 223.9974 9.88 10.30 3.604e+004 9.00 9.72 9.10 100 8.68 9.45 1155 10.02 8.88 9.22 8.53 8.73 10.12 10.43 8.81 9.58 % → → min 8.60 8.80 9.00 9.20 9.40 9.60 9.80 10.00 10.20 10.40 **Total DiCB labeled F1** M1170609A04 Smooth(SG,3x1) PCB 4L F1:Voltage SIR,EI+ EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI 10.11 234.0406 102554 2.072e+006 100 % 0 🕆 min 8.60 8.80 9.00 9.20 9.40 9.60 9.80 10.00 10.20 10.40 **Total DiCB labeled F1** M1170609A04 Smooth(SG,3x1) PCB 4L F1:Voltage SIR,EI+ EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI 10.11 236.0376 66619 1.339e+006 100 % ⊤ min 8.60 8.80 9.00 9.20 9.40 9.60 9.80 10.00 10.20 10.40





Total TriCB labeled F2 M1170609A04 Smooth(SG,3x1) F2:Voltage SIR,EI+ EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI 269.9986 PCB 19L 1.700e+006 100 11.48 120779 % min بنستان 11.00 11.20 11.40 11.80 12.00 12.40 10.80 11.60 12.60 12.80 10.60 12.20 13.00

Acquired Date

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C:\MassLynx\Default.pro\QLD\M1170609A_sample_1668A.qld

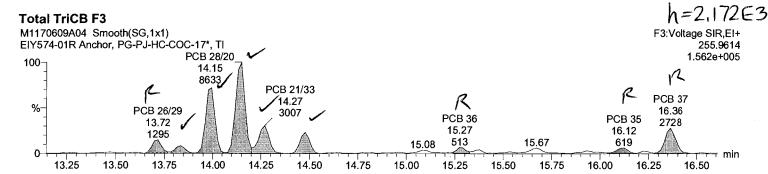
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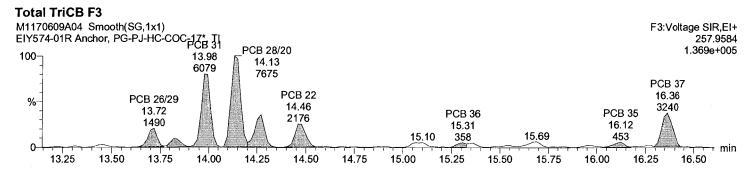
June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time

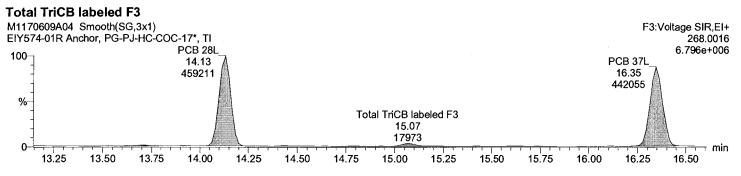
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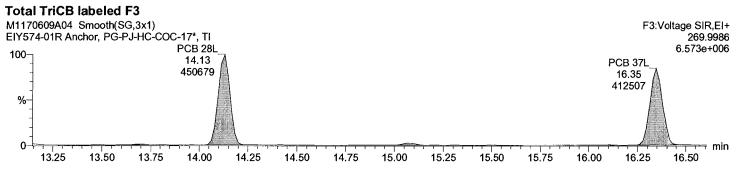
Vial: 4











Acquired Date

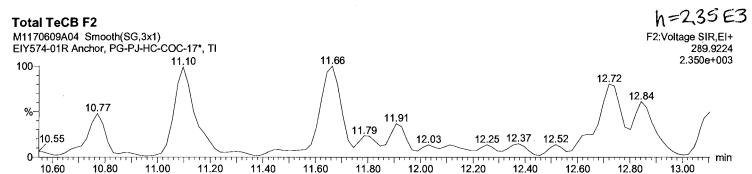
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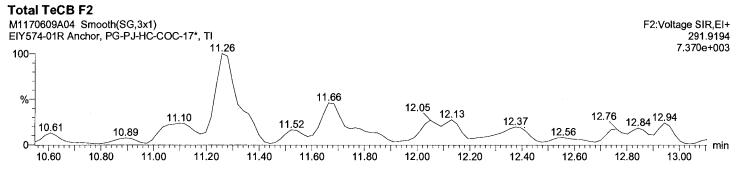
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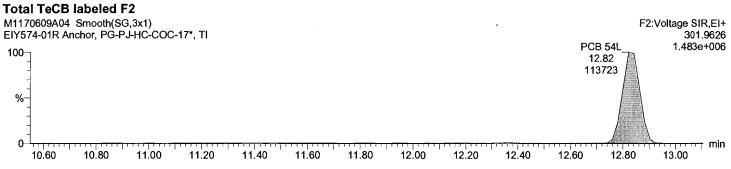
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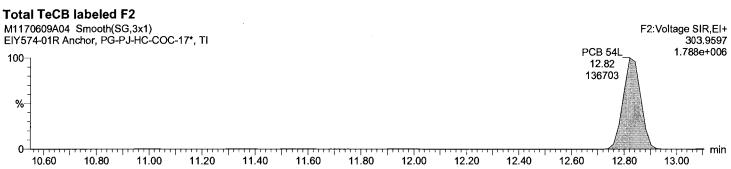
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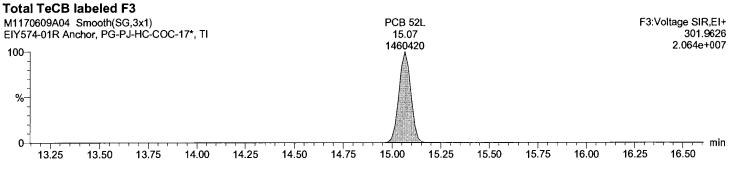
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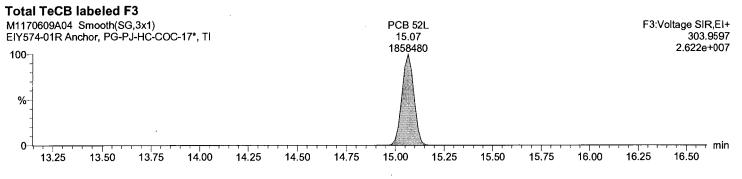












Total TeCB labeled F4 19.40 15212

19.50

20.00

20.50

19.00



17,00

17.50

18.00

18.50

100

%

471359

21.50

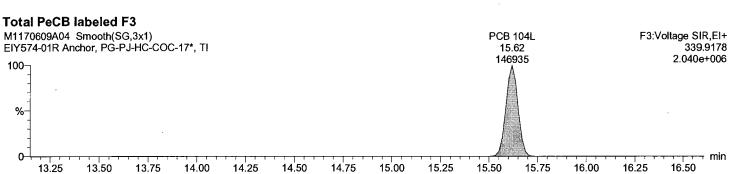
464685

21.00

5.184e+006

🔫 min

22.00



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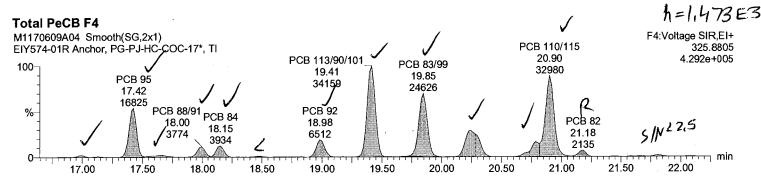
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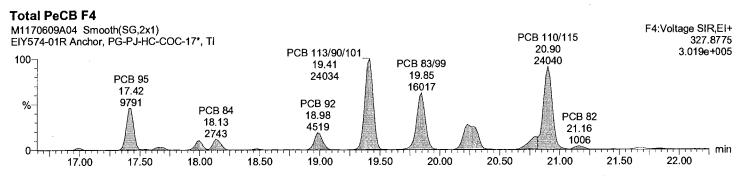
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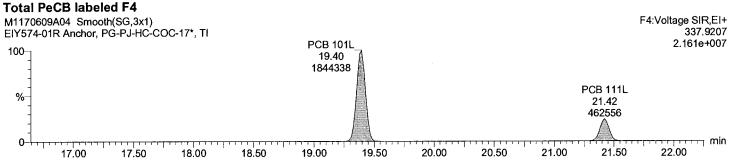


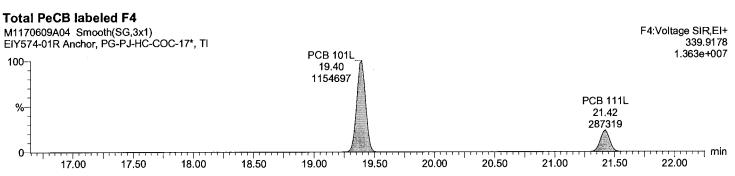
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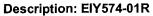
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Last Altered:

June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time

24.00

24.50



23.00

23.50

Vial: 4

Printed:

Date: 09-Jun-2017 Time: 13:12:49 Instrument:

22.50



26.50

26.00

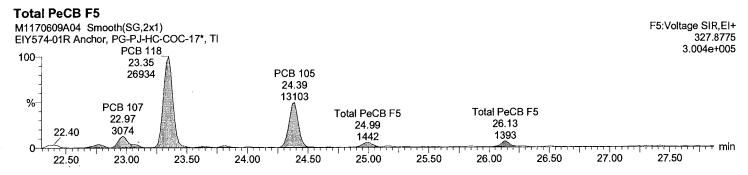
27.00

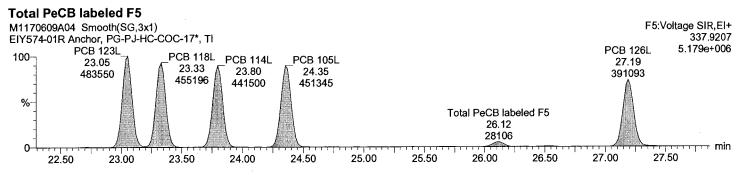
27.50

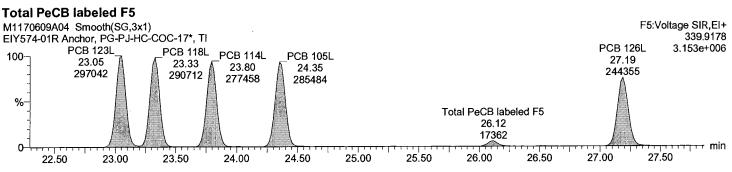
Total PeCB F5 M1170609A04 Smooth(SG,2x1) EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI 325.8805 4.620e+005 PCB 118 100 23.35 42743 **PCB 105** 24.39 % 18838 **PCB 107** Total PeCB F5 Total PeCB F5 22.97 26.13 24.99 22.38 4342 1983 1938 ⊤ − min 0

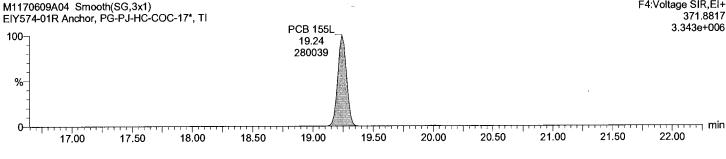
25.00

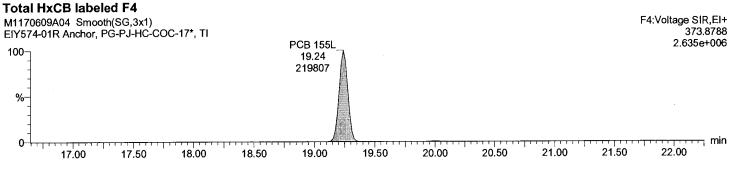
25.50

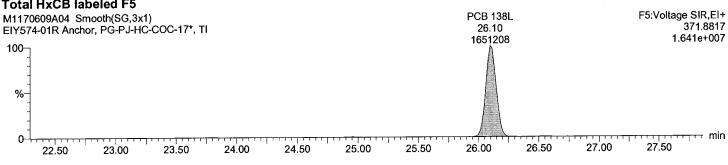


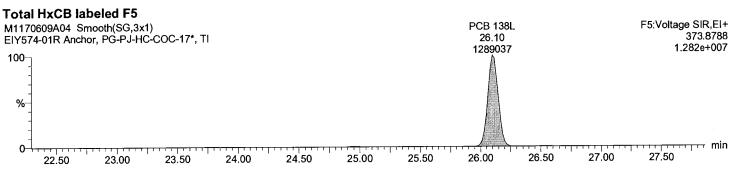












32.00

31.50

32.50

33.00

33,50

34,00

28.50

28.00

29.00

29.50

30.00

30.50

31.00

34.50

⊤⊤⊤ min

35.00

22.50

23,00

23.50

24.00

24.50

25.00

25.50

26.00

26.50

27.50

27.00

- min

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Acquired Date

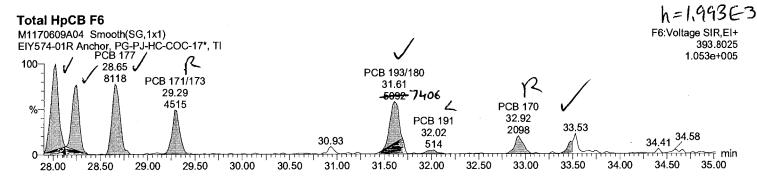
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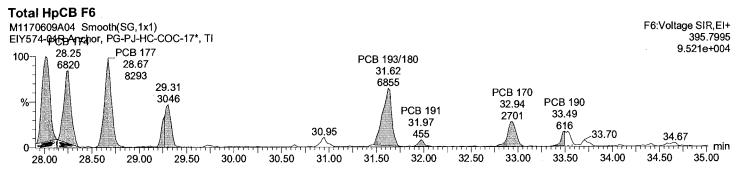


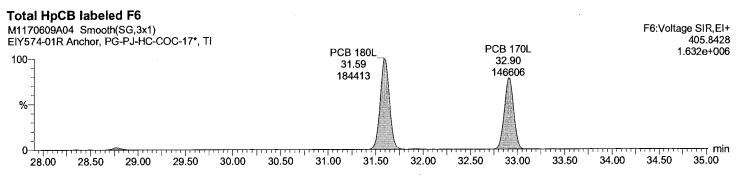
Vial: 4

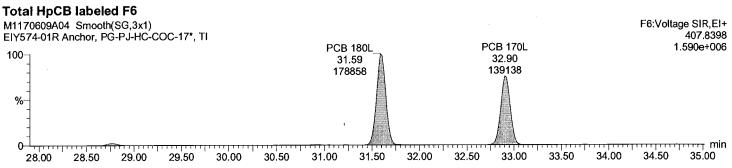
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Acquired Date

June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time

Description: EIY574-01R

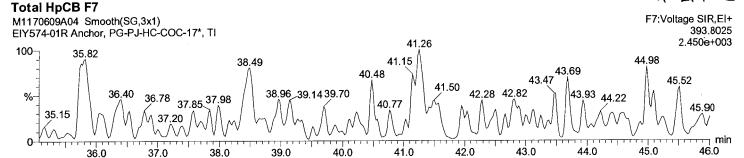
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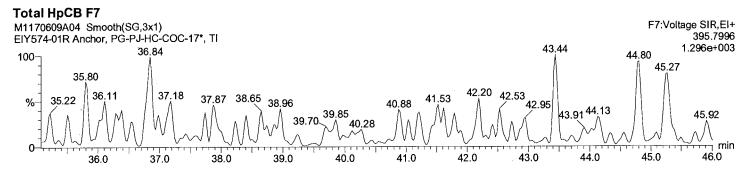
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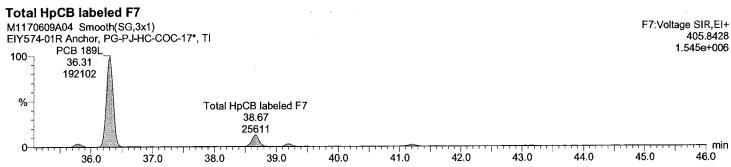
Date: 09-Jun-2017 Time: 13:12:49 Instrument:

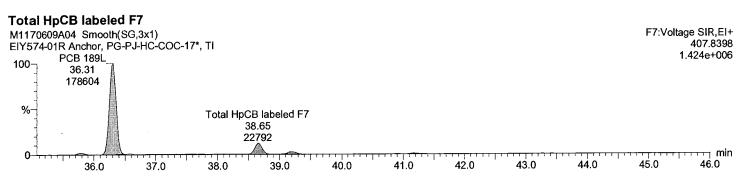


h=2,45 E3









Printed:

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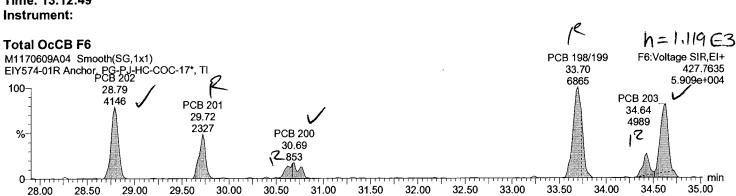
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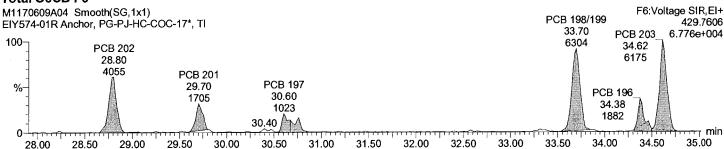
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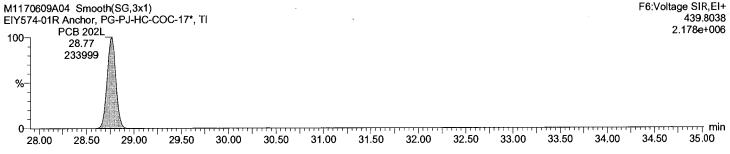
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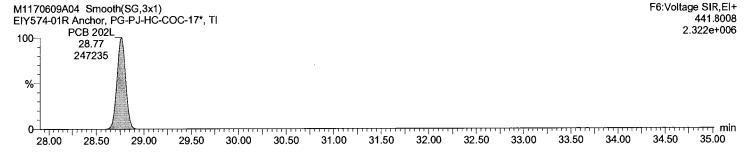
Total OcCB F6



Total OcCB labeled F6



Total OcCB labeled F6



36.0

37.0

38.0

39.0

40.0

41.0

42.0

43.0

44.0

45.0

📺 min

46.0

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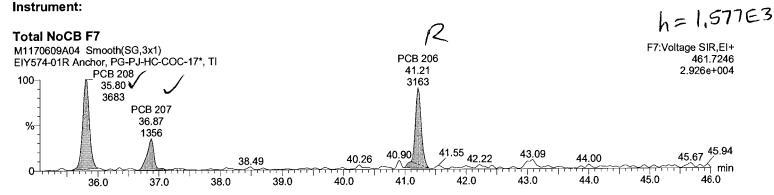
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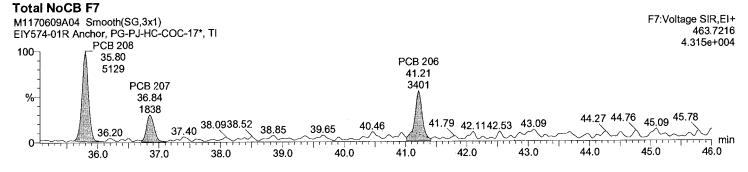
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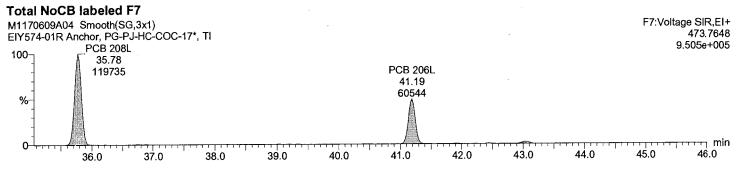
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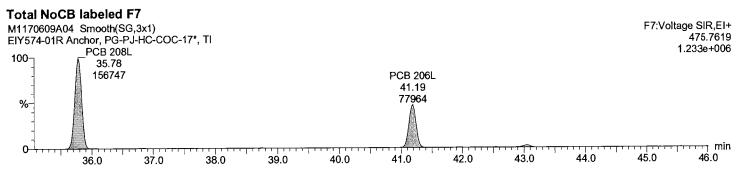
Vial: 4

Printed:









Acquired Date

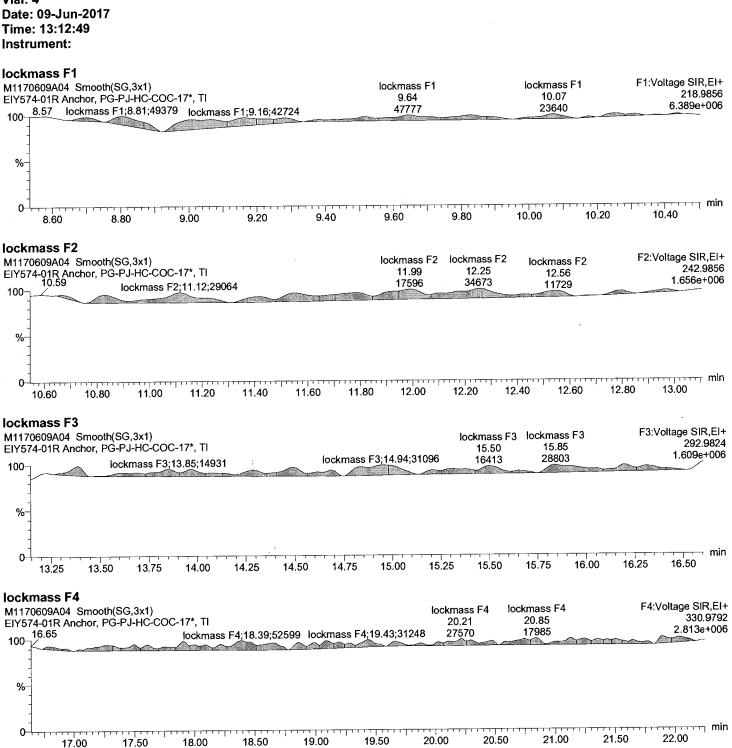
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Description: EIY574-01R

Vial: 4



Acquired Date

Dataset:

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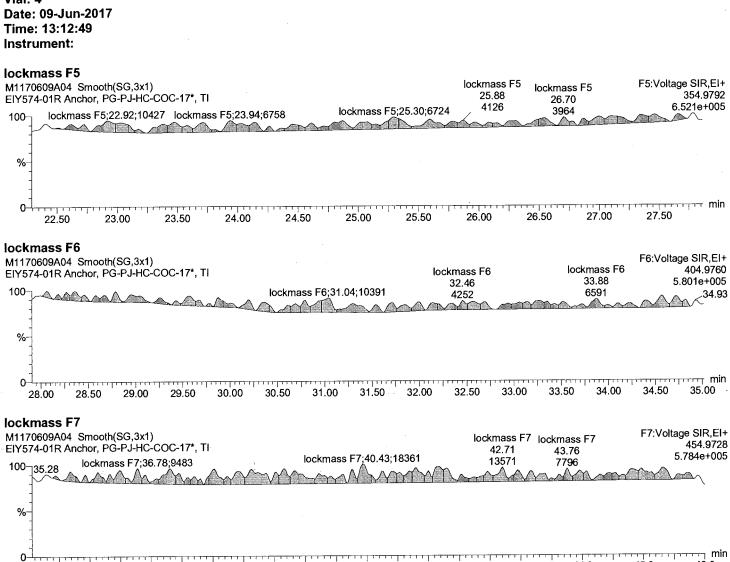
Last Altered: Printed:

June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time

Description: EIY574-01R

Vial: 4

Time: 13:12:49



36.0

37.0

38.0

39.0

40.0

41.0

42.0

45.0

46.0

44.0

43.0

2017-06-12 Be

Before

2,706,2

F2:Voltage SJR,EI+ 222,0003 7,021e+004

11.50 2374.68 27290

F1:Voltage SIR,E++ 230.0378 4.100e+003

11.580 min

2017-06-12 MT2

M1170609A04 Smooth(SG3X1) EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI

He.

200,000

Maxxam Analytics

Page 2213 of 2579

F2:Voltage SIR.EI+ 222,0003 7.021e+004

11.50 2374.68 27290

> 11.50 2374.68 27290

11.520

11.540

11.580

11.580 min

F1:Voltage SIR,€i+ 236,0376 4.100a+003 2017-06-12 Before MT2 M3

M1170009A04 Smooth(SG.3XI) EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI

12.320

12,400

12.500

12.520

12.620

12.640 min

F1:Voltage SIR,EH 236,0378 4.100e+003 F1://oilage SIR,E;+ 234,0408 1,811e+604 F2:Voltage SIR,E:+ 223.9974 8.878e+004

76,706,3

PCB 11 12.41 9454.84 278688 MT2 2017-06-12 M1170009A04 EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI

12.620

12.640 min

F1:Voltage SIR,Ei+ 238.0376 4.100a+003

76,40613

F2:Voltage SIR,Ei+ 222,0003 3,829e+005

M1170609A04 EN574-01R Anchor, PG-PJ-HC-COC-17*, TI 2017-06-12 Before MT2 M3

F2:Voftage SIR,EI+ 222,0003 5,007e+004

M1170608404 EIY574-01R Anchor, PG-PJ-HC-COC-17", TI

PCB 15 12.70 2553.24 59191

12.860

12.880

12.900

F2:Voliage SIR,EI+ 236.0376 3,443e+005

MT2 2017-06-12 12,700 36,706,3

12.840

12.860

12.880

12,900

F2:Vollage SIR,EI+ 236.0378 3,443g+008

Maxxam Analytics

12.90 1096.98 26237 13.06 13.06 14.03

18.30 19.40 18.50

20170613

2017-06-12 After MT2 M3

M1170609A04 Smooth(SG,3XI) EIY574-01R Anchox, PG-PJ-HC-COC-17*, TI

> PCB 46 14.38 263.56 5319

PCB 43 15.22 264.23 4056

15.20 15.30 15.40 16.50

F2:Voltage SIR,E++ 303.9587 5.616e+003 PCB 43 15.22 104.35 2032

M1170809A04 Smooth(SG.3x1)
E11574-01R Anchor, PG-FJ-HC-COC-17". "I

26,706,3

F3:Voltage SIR,E!+ 288,522,4 0,837e+003

16.50 F3:Vollage SIR,EI+ 291.5194 2.360e+004

16.54 min F2://ollage SIR,EH 301.9828 4,093.41003 2017-06-12 Before M2

20,160 20,180 20,200

20.220

20.420 20.440 20.480 20.480 20.500

F3:Voltage SIR,EI+ 339.9178 1.428e+002 F3:Voltage SIR,EI+ 337.9297 1,090e+001

2017 0613

F4:Voltage SIR.EI+ 325.8805 1.225e+005

M1170609A04 Smooth(SG,2x1) EN574-01R Anchor, PG-PJ-HC-COC-17*, TI

PCB 109/119/86/97/125/87/20.23;11367.74;62991

2017-06-12

After
MT2

M78-1

M1170609404 Smooth(SG3XI) EIYS74-01R Archor, PG-PJ-HC-COC-17", TI 01170608404 Smooth(SG2XI) ENS74-01R Archor, PG-FJ-HC-COC-17*, TI M117060BA04 Smooth(SG,2x1)
EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI 20.020 20.040 20.080 20.080 20.100 20.120 20.140 20.180 20.180 20.200 20.220 20.240 PCB 108/119/86/07/125/87/20.23;11367.74;82891 20.260 20.280 20.300 20.320 20.340 20.360 20.380 20.420 20.440 20.480 20.480 20.500 F3:Voltage SIR,EH 337,9207 1,090e+001 F3:Voltage SIR,EH 339,9179 1,426e+002 #4:Voltage SIR,E++ 327.8775 8.305e+004 F4:Voltage SIR,EI+ 325,8805 1.225e+005 2017-06-12 See MT2

M1170809A04 Smooth(SG,3x1)
E1Y574-01R Anchor, PG-PJ-HC-COC-17*, 7)

20,600

20.700

20.750

20.800

20.850

20.900

20.950

21.000

21.100

M1170608A04 Smooth(SG3XI)
EIY574-01R Anchor, PG-PJ-HC-COC-17", TI

Petox

70,706,13

2017-06-12 PHAC MT2 M2

Maxxam Analytics

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21.100

2017-06-12 Before MT2 M72

22.920

22,940

23.000

23.020

23,060

23.080

23.100

23,140

23.160

23.180 23.200 23.220

F3:Voliage SIR,EI+ 339.9173 1,428e+902 M1170609A04 Smooth(SG.3XI) EJYS74-01R Anchor, PG-PJ-HC-COC-17*, TI

18,70612

F5:Voltage SIR,E;+ 325,8805 4,917e+004 MT2 2017-06-12

M1170809404 Smooth(SG3x1) E17574-01R Anchor, PG-PJ-HC-COC-17*, TI

22,920 22,940 22,960

23.120

23.140

23.160

23,180

23.200 23.220

F3:Voltage SIR,EI+ 339.9178 1.428e+002

F3:Voltage SIR,E!+ 337.9207 1.090e+001

F5:Voltage SIR.EJ+ 325,8805 4,917e+004

2017-06-12 Belove MT2 M3 2017-06-13

M1170509A04 Smooth(SQ3x1) EIY574-01R Archor, PG-PJ-HC-COC-17", TI M1170609A04 Smooth(SG,1X1) EIY574-01R Anchor, PG-PJ-HC-COC-17", TI M1170809A04 Smooth(SG,1x1) EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI 27.150 27.200 27.300 27.350 27.550 27.650 27.700 27.750 27.800 F5:Voltage SIR,EI+ 359,8415 8,745e+004 2017-06-12 Affe

27.350

27.650

27.750 27.800

F4:Voltage SIR,EI+ 371,8817 3,001a+002 7.574e+004

M1170608A04 Smooth(SG.1X1) EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI M1170609A04 Smooth(SG,1x1)
EIY574-01R Anchor, PG-PJ-HC-COC-177, TI

20170613

F5:Voltage SIR.EI+ 359,8415 8.745e+004

MT2 2017-06-12 M1170608A04 Smooth(SG3X1) EIY574-01R Anchox, PG-PJ-HC-COC-17", TI Defore 29.90 30.15 30.20 3025 30.60 30,65 F4:Voltage SIR,EH 373.8788 2,535e+005 30.70 min

20170617

2017-06-12

MT2

04 Smooth(SG,3X1) Anchor, PG-PJ-HC-COC-17", TI 30.40 30,70 F4:Voltage SIR EI+ 371.8317 3.001e+002 F5:Voltage SIR,EI+ 361.8365 3.557e+003 F4:Voliage SIR,EI+ 373.6788 3.050e+002 30.75 min

MT2

2017-06-12

33.250

33.44

33.500

33.550

33.600

33.650

33,700

33.750

33.850 33.900

33,950

34,000 min

F6:Voltage SIR,EI+ 441,8008 2,575e+003 Before mr

A 170613

F6;Valtage SIR,E!+ 427.7635 5.909e+004 MT2 2017-06-12 33.50 33,55 33.60 33.65 33.70 33.75 33.85 33.90 33.95

34.05

34.10

76:Voltage SIR,E++ 441.8009 2.575e+403

20170613

F6:Voltage SIR.EI+ 427.7635 5.909e+004

M1170609A04 Smooth(SG,1x1) EN574-01R Anchor, PG-PJ-HC-COC-17*, TI 2017-06-12 Before MT2 M75

2017613

F6:Voltage SIR.EI+ 427.7635 1.188e+004

M1170608/04 Smooth(SG,1x1) EIY574-01R Anchor, PG-PJ-HC-COC-17", TI

M1170608A04 Smooth(SG.3XI)
EIY574-01R Archor, PG-PJ-HC-COC-17", TI

M1170609A04 Simcoth(SG.3XI) EIY574-01R Anchor, PG-PJ-HC-COC-17*, TI

34,225 34,250 34,275

34,300 34,325 34,350 34,375 34,400 34,425 34,450 34,475 34,500 34,525 34,550 34,575 34,600

34.625 34.650

34,700 34,725 34,750 34,775 34,800 34,825 34,850 34,875

F6:Voltage SIR,EI+ 441,8008 2.146e+C03 F5:Voltage SIR,EI+ 439,8038 2,504e+003 F6:Voltage SIR,EI+ 429,7696 2.464a+004

MT2 M1170609A04 Smooth(SG,1x1) EN574-01R Anchor, PG-PJ-HC-COC-17", TI 2017-06-12 33 Fe 34.400 34.450 PCB 196 34.38 1881.55 24288 34.500 34.556 34,600 34.650 34.750 34.800 34.850

34,900

34.950 min

F6:Voltage SIR,E1+ 441.8009 2.146e+003 F6:Voltage SIR,E:+ 439.8039 2.504e+003 #5:Voltage SIR,E:+ 429.7606 2.618e+004

76170613

F6:Voltage SIR_EI+ 427.7635 1.295e+004 41.75

41.95

42.00

42.05 42.10 42.15 42.20 42.25

M1170609A04 Smooth(SG3x1)
E1Y574-01R Anchor, PG-PJ-HC-COC-17*, TI

20170613

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F7:Voltage SIR.Ei+ 481.7246 2.5236+004

F7:Yollage SIR,EH 473,7848 4,671e+005 MT2

2017-06-12

Atter

42.15

42.20

1 42.25 min

20,70613

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Filename M1170609A05 Acquired 09/06/2017 14:02

Cali File PCB209_M1170609A

Sample ID EIY575-01R Comments Instrument File Ultima 1 Sample Size 10.034

Dil Fac 1.00

5X

ample Size 10.034	Dil Fac	1.00											
Name 1 PCB 1	mass 188 MoCB 190	RT 8.81 8.80	Area -477 -152.3962	ratio 3.13 OK	Tot Area -629.3962	ng/g -0.000243665	Code PCB 1 NDR	Isomers	DL -0.000133494	S/N 4 6	Mod xL	nf 1.053	Rec -
2 PCB 2	188 MoCB 190	9.90 9.91	-558 -178.2748	3.13 OK	-736,2748	-0.000243354	PCB 2 NDR		-0.000118324	5 7	хL	1.188	-
3 PCB 3	188 MoCB 190	9.99	-622 -198.722	3.13 OK	-820.722	-0.000294677	PCB 3 NDR		-0.000133241	5 7	хL	1.055	-
4 PCB 4	222	10.00 NotFnd	*190.722	•	•	-0.000554451			-0.000554451		no	1.191	-
5 PCB 10	DICB 224 222	10.11 NotFnd	:	no •	•	-0.000553986			-0.000553986		no	1.192	-
6 PCB 9	DICB 224 222	10.20 NotFnd	•	no •	•	-0.000154879			-0.000154879	*	no	1.471	-
7 PCB 7	DICB 224 222	11.00 NotFnd	:	no •	*	-0.000161009			-0.000161009	•	no	1.415	-
8 PCB 6	DICB 224 222	11.08 NotFnd	•	no •	*	-0.000157231			-0.000157231	*	no	1.449	_
9 PCB 5	DICB 224 222	11.18 NotFnd	:	no *		-0.000187977			-0.000187977	•	no	1.212	-
10 PCB 8	DICB 224 222	11.30 11.36	3274	no 1.33	5731	0.001177			-0.000130635	41	yes	1.744	-
11 PCB 14	DiCB 224 222	11.36 NotFnd	2458	yes *	٠	-0.000156583			-0.000156583	48	no	1.455	-
12 PCB 11	DiCB 224 222	12.03 1 2.4 1	19288	no 1.41	33007	0.008083			-0.000155726	200	no	1.463	-
13 PCB 13/12	DICB 224 222	12.40 NotFnd	13720	yes *	•	-0.000159879			-0.000159879	192	no	1.425	-
14 PCB 15	DICB 224 222	12.54 12.70	-2769	no 1.56	-4527.59	-0.001083248	PCB 15 NDR		-0.000238313	27	хL	0.956	-
15 PCB 19	DICB 224 256	12.68 11.48	-1758.59 2 77	OK 0.86	601	-0.000603003			-0.000603003	33	yes	1.06	-
16 PCB 30/18	TriCB 258 256	11.46 12.27	324 -3196	no 1.04	-6269.077	-0.001800792	PCB 30/18 NDR		-0.000 6 110 7 4	22	×L	1.046	
17 PCB 17	TriCB 258 256	12.25 12.46	-3073.077 -1112	OK 1.04	-2181.231	-0.000786771	PCB 17 NDR		-0.000767326	36 9	хL	0.833	-
18 PCB 27	TriCB 258 256	12.46 12.56	-1069.231 547	OK 0.92	1141	-0.000521782			-0.000521782	13	yes	1.225	
19 PCB 24	TriCB 258 256	12.54 NotFnd	594	yes *		-0.00057584			-0.00057584	*	no	1.11	
20 FCB 16	TriCB 258 256	12.58 12.66	1168	no 1.11	2218	0.000903			-0.000888455	11	no	0.736	-
21 PCB 32	TriCB 258 256	12.66 12.90	1050 -1312.48	yes 1.04	-2574.48	-0.000592295	PCB 32 NDR		-0.00048942	8 11	xL	1.306	-
22 PCB 34	TriCB 258 256	12.88 13.49	-1262 17 5	OK 1.96	263	-0.000205414			-0.000205414	10	yes	1.367	_
23 PCB 23	TrICB 258 256	13.46 NotFnd	89	no *		-0.000211606			-0.000211606	•	no	1.327	-
24 PCB 26/29	TrlCB 258 256	13.54 13.70	1815	no 0.94	3741	0.000789			-0.000197886	12	no	1.419	-
25 PCB 25	TriCB 258 256	13.70 13.82	1926 -866.32	yes 1.04	-1699.32	-0.000361092	PCB 25 NDR		-0.000198586	14 8	хL	1.414	-
26 PCB 31	TriCB 258 256	13.83 13.98	-833 9175	OK 1. 03	18076	0.003575			-0.000185469	6 69	no	1.514	_
27 PCB 28/20	TriCB 258 256	13.99 14.13	8901 1 4869	yes 1.05	29037	0.006141			-0.000198306	70 115	rio	1,416	
28 PCB 21/33	TriCB 258 256	14.14 14.2 5	14168 5229	yes 0.98	10542	0.002197			-0.000195544	110 39	no	1,436	-
29 PCB 22	TriCB 258 256	14.26 14.46	5314 -2462.72	yes 1.04	-4830.72	-0.001084795	PCB 22 NDR		-0.000209866	43 22	хL	1.338	-
30 PCB 36	TriCB 258 256	14.45 15.27	-2368 982	OK 1.03	1933	0.000355			-0.000172378	19 7	yes	1.629	
31 PCB 39	TriCB 258 256	15.28 NotFnd	951	yes	•	-0.000191151		•	-0.000191151	7	no	1.469	-
32 PCB 38	TriCB 258 256	15.48 NotFrid	•	no *		-0.00019446			-0.00019446	*	ho	1.444	
33 PCB 35	TriCB 258 256	15.89 16.10	-1171	no 1.04	-2296.962	-0.000491912	PCB 35 NDR		-0.000200143	6	хL	1.403	-
34 PCB 37	TriCB 258 256	16.08 16.35	-1125.962 -2691.52	OK 1.04	-5279.52	-0.001132078	PCB 37 NDR		-0.000295269	10 21	хL	0.951	
35 PCB 54	TriCB 258 290	16.35 NotFnd	-2588	ok ⁺		-0.000250132			-0.000250132	17	no	1.071	-
36 PCB 53/50	TCB 292 290	12.82 13,84	-1673	no 0.77	-3845.727	-0.001186679	PCB 53/50 NDR		-0.000451186	12	хL	0.844	-
37 PCB 45/51	TCB 292 290	13.86 14.22	-21 7 2.727 -15 7 6. 1 9	OK 0.77	-3623.19	-0.001152138	PCB 45/51 NDR		-0.000464938	13 12	жi.	0.819	-
38 PCB 46	TCB 292 290	14.21 14.36	-2047 24 8	OK 0.74	582	-0.000555889			-0.000555889	7	yes	0.685	-
39 PCB 52	TCB 292 290	14,35 1 5.0 7	334 2325 5	yes 0.73	54902	0.016263			-0.000431239	145	no	0.883	_
40 PCB 73	TCB 292 290	15.05 N otFnd	31647	yes +	•	-0.000322972			-0.000322972	153	no	1.179	-
41 PCB 43	TCB 292 290	15.14 15.20	37 0	no 1.04	726	-0.000630437			-0.000630437		yes	0.604	-
42 PCB 69/49	TCB 292 290	15.21 15.34	356 8686	no 0.7	21136	0.005865			-0.000404229	58	no	0.942	
43 PCB 48	TCB 292 290	15.33 15.52	12450 -2457.84	yes 0.77	-5649.84	-0.001803197	PCB 48 NDR		-0.000466647	59 16	хL	0.816	
44 PCB 44/47/65	TCB 292 290	15.50 15.65	-3192 26383	OK 0.77	60595	0.017554			-0.000421688	14 127	no	0.903	-
45 PCB 59/62/75	TCB 292 290	15.64 15.83	34212 1544	yes 0.76	3564	0.000855	•		-0.000349023	12 7 8	no	1.091	-

	TCB 292	15.83	2020	yes					8			
46 PCB 42	290 TCB 292	15.95	3116	0.8	7000	0.002469		-0.000513878	19 18	no	0.741	-
47 PCB 40/41/71	290	15.94 1 6.24	3884 6245	yes 0.72	14924	0.004615		-0.000450099	31	no	0.846	-
40 DOD 64	TCB 292	16.23	8679	yes	0054	0.002321		-0.000373318	34 20		1.02	
48 PCB 64	290 TCB 292	16.38 16.37	3726 5328	0.7 yes	9054				24	no		-
49 PCB 72	290 TCB 292	16.85	369	0.49	1125	-0.000511261		-0.000511261	*	yes	1.392	-
50 PCB 68	290	16.88 17.04	756 4995	no 0.69	12271	0.002324		-0.000515334	12	no	1.381	-
51 PCB 57	TCB 292 290	17.07 17.30	7276 72	yes 0.41	248	-0.000525998		-0.000525998	12	yes	1.353	
31 FQB 37	TCB 292	17.34	175	no					•	-		
52 PCB 58	290 TCB 292	NotFnd 17.49	:	no	*	-0.000536709		-0.000536709		no	1.326	-
53 PCB 67	290	17.58	843	0.77	1939	-0.000523676		-0.000523676	*	yes	1.359	-
54 PCB 63	TCB 292 290	17.57 17.75	1096 1180	yes 0.87	2533	-0.000504735		-0.000504735		yes	1.41	_
	TCB 292	17.74	1354	yes					*	-	1 205	
55 PCB 61/70/74/76	290 TCB 292	17. 98 17.99	40517 50397	0.8 yes	90914	0.018219		-0.000545346	71 66	по	1.305	-
56 PCB 66	290 TCB 292	18.20 18.22	19177 25963	0.74	45139	0.00874		-0.000526777	44 44	no	1.351	-
57 PCB 55	290	NotFnd	*	yes *	•	-0.000559494		-0.000559494	•	no	1.272	-
58 PCB 56	TCB 292 290	18.35 18.67	4617	no 0.78	10570	0.002098		-0.000540377	10	no	1.317	-
	TCB 292	18.69	5953	yes					10			
59 PCB 60	290 TCB 292	18.83 18.85	3995 5234	0.76 yes	9229	0.001916		-0.000565271	9	no	1.259	-
60 PCB 80	290	NotFnd	•	*	•	-0.000476995		-0.000478995	:	no	1.492	-
61 PCB 79	TCB 292 290	19.08 20.21	446	no 0.67	1114	-0.000461827		-0.000461827		yes	1.541	-
62 PCB 78	TCB 292 290	20.22 NotFnd	668	yes		-0.000501887		-0.000501887	•	no	1.418	_
02 FGB 70	TCB 292	20.66	*	no				-0.000301007	•	110		_
63 PCB 81	290 TCB 292	NotFnd 20.99	:	no	*	-0.000697722		-0.000697722		no	1.02	-
64 PCB 77	290	21.42	2803	0.78	6418	0.001288		-0.000700468	6	no	1.016	-
65 PCB 104	TCB 292 326	21.43 NotFnd	3615	yes •	*	-0.000265488		-0.000265488	5	no	1.194	_
	PeCB 328	15.62	•	no	4=0				:			
66 PCB 96	326 PeCB 328	15.86 15.84	218 255	0.86 no	473	-0.000393291		-0.000393291		yes	0.806	-
67 PCB 103	326 PeCB 328	16.97	-789 -509.0323	1.55 OK	-1298,032	-0.000396578	PCB 103 NDR	-0,00020711	6 14	хL	0.824	~
68 PCB 94	326	16.96 NotFnd	*109.0323	•	•	-0.000253957		-0.000253957	•	no	0,672	-
69 PCB 95	PeCB 328 326	17.10 17.41	35955	no 1.48	60215	0.019173		-0.000216024	284	yes	0.79	_
	PeCB 328	17.38	24260	yes					284	•		
70 PCB 100/93/102/	98 326 PeCB 328	17.65 17.52	2783 2048	1.36 yes	4831	0.001674		-0.000234744	12 20	yes	0.727	-
71 PCB 88/91	326	17.98	-3449	1.55	-5674.161	-0.001956811	PCB 88/91 NDR	-0.000233779	26 33	хL	0.73	-
72 PCB 84	PeCB 328 326	17.93 18.13	-2225.161 6308	OK 1.46	10614	0.004149		-0.000264998	45	yes	0.844	-
73 PCB 89	PeCB 328 326	18.10 18.48	4307 287	yes 1.64	461	-0.000242413		-0.000242413	52	yes	0.704	_
	PeCB 328	18.43	174	yes					*			
74 PCB 121	326 PeCB 328	18.70 18.68	280 94	2.99 no	373	-0.000173082		-0.000173082	*	yes	0.986	
75 PCB 92	326	18.98	13706	1.44	23251	0.007956		-0.000232189	95	no	0.735	-
76 PCB 113/90/101	PeCB 328 326	18.94 19.40	9545 83712	yes 1.53	138520	0.040283		-0.000197294	102 596	no	0.865	-
77 PCB 83/99	PeCB 328 326	19.36 19.83	54808 56340	yes 1.45	95104	0.031562		-0.000225144	615 371	no	0.758	
// FCD 03/33	PeCB 328	19.81	38764	yes	33104				396	110		
78 PCB 112	326 PeCB 328	NotFnd 19.89	:	no no	•	-0.000181939		-0.000161939		no	0.938	-
79 PCB 109/119/86/	97/125/1326	20.23	38021	1.59	61974	0.017814		-0.000194816	141	no	0.876	-
80 PCB 117/116/85	PeCB 328 326	20.19 20.78	23953 1 6041	yes 1.55	26367	0.007212		-0.000185499	145 94	no	0.92	-
81 PCB 110/115	PeCB 328 326	20.74 20.89	10326 69782	yes 1.53	115503	0.030539		-0.000179264	92 432	no	0.952	
	PeCB 328	20.86	45721	yes					461			
82 PCB 82	326 PeCB 328	21.15 21.13	-3306.15 -2133	1.55 OK	-5439.15	-0.002007782	PCB 82 NDR	-0.000250233	29 22	хL	0.682	-
83 PCB 111	326	NotFnd	-2100 *	•	•	-0.000170659		-0.000170659	•	no	1	-
84 PCB 120	PeCB 328 326	21.42 21.80	731	no 1.48	1226	0.000283		-0.000156712	6	yes	1.089	_
	PeCB 328	21.78	495	yes				0.2004E.05	5		1 212	
85 PCB 108/124	326 PeCB 328	22.74 22.76	3549 2436	1.46 yes	5985	0.001242		-8.2894E-05	41 42	no	1.213	-
86 PCB 107	326 PeCB 328	22.97 22.97	10131 6071	1.67	16202	0.002954		-7,28626E-05	98 91	yes	1.38	-
87 PCB 123	326	23.07	-511.5	yes 1.55	-841.5	-0.000193422	PCB 123 NDR	-0.000109175	19	хL	0.921	-
88 PCB 106	PeCB 328 326	23.06 NotFnd	-330 *	ok *		-8.72834E-05		-8.72834E-05	13	no	1.152	_
	PeCB 328	23.17	407272	NO	475545				1100			
89 PCB 118	326 PeCB 328	23.35 23.31	107273 68242	1.57 yes	175515	0.037561		-9.7811 7 E-05	1100 1085	no	1.028	-
90 PCB 122	326 PeCB 328	23.64 23.62	693	1.73	1094	0.000236		-8.63835E-05	10 7	yes	1.164	-
91 PCB 114	326	23.82	401 -1246,2	yes 1.55	-2050.2	-0.000464955	PCB 114 NDR	-9.82898E-05	22	хL	1.023	-
92 PCB 105	PeCB 328 326	23.80 24.37	-804 37179	OK 1.6	60391	0.014718		-9.81938E-05	14 373	no	1.024	_
	PeCB 328	24.38	23212	yes	•				361			
93 PCB 127	326 PeCB 328	NotFnd 25.68	:	no	•	-7.72277E-05		-7.72277E-05	÷	no	1.302	-
94 PCB 126	326 PeCB 328	27.21 27.20	-221.65 -143	1.55 OK	-364.65	-0.000117396	PCB 126 NDR	-9.19949E-05	5 3	хL	1.093	-
	re√D 328	£1,£U	-143	On					J			

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95 PCB 155		360	NotFnd		•	•	-0.000212334		-0.000212334		no	1.103	-
96 PCB 152	HxCB	360	19.24 NotFnd	•	no *	*	-0.000275211		-0.000275211	•	no	0.851	-
97 PCB 150	HxCB	362 360	19.38 NotFnd		no		-0.000323487		-0.000323487	*	no	0.724	_
	НхСВ	362	19.51	*	no					*			
98 PCB 136	НхСВ	360 362	19.80 19.76	6814 5572	f.22 yes	12386	0.006333		-0.000297592	44 44	no	0.787	-
99 PCB 145		360	NotFnd	*	•	•	-0.00031908		-0.00031908	•	no	0.734	-
100 PCB 148	HxCB	360	20.01 21.13	168	no 0.98	340	-0.000387115		~0.000387115	*	yes	0.605	~
101 PCB 151/135	HxCB	362 360	21.11 21.61	172 22234	no 1. 29	39493	0.027287		-0.000401723	115	no	0.583	
	НхСВ	362	21.59	17259	yes					114			
102 PCB 154	НхСВ	360 362	21.82 21.80	2668 2135	1.25 yes	4803	0.002883		-0.000349038	18 19	no	0.671	-
103 PCB 144		360	22.08	2508	1.26	4503	0.002925		-0.00037775	15	no	0.62	-
104 PCB 147/149	HxCB	362 360	22.05 22.36	1995 7 3445	yes 1.33	128656	0.066305		-0.000385656	15 571	yes	0.781	
105 PCB 134/143	HxCB	362 360	22.34 22.55	55212 3249	yes 1.2	5953	0.003534		-0.000444244	537 25	yes	0.678	_
	HxCB	362	22,59	2704	yes					30	-		
106 PCB 139/140	HxCB	360 362	22.88 22.86	2101 1502	1.4 yes	3603	0.001834		-0.000380781	16 12	no	0.791	•
107 PCB 131		360	NotFnd	*	•	•	-0.00048502		-0.00048502	•	no	0.621	-
108 PCB 142	HxCB	360	23.03 NotFnd	*	no •	•	-0.000433378		-0.000433378	*	no	0.695	-
109 PCB 132	HxCB	362 360	23.16 23.43	12996	no 1.34	22715	0.013459		-0.00044359	94	ho	0.679	_
	НхСВ	362	23.41	9719	yes					91			
110 PCB 133	НхСВ	360 362	23.85 23.84	2516 1966	1.28 yes	4482	0.0024		-0.000400529	18 22	no	0.752	-
111 PCB 165		360	NotFnd		•	*	-0.00031539		-0.00031539	•	no	0.955	-
112 PCB 146	HxCB	362 360	24.21 24.42	26409	no 1.27	47183	0.021546		-0.000341494	190 '	по	0.882	-
113 PCB 161	HxCB	362 360	24.41 NotFnd	20774	yes		-0.000297626		-0.000297626	191	no	1.012	_
	НхСВ	362	24.53		no								
114 PCB 153/168	НхСВ	360 362	24.98 24.99	174278 136794	1.27 yes	311072	0.128762		-0.000309556	1279 1267	no	0.973	•
115 PCB 141		360	25.15	2801	1.41	4789	0.002626		-0.000410351	22 16	no	0.734	-
116 PCB 130	HxCB	360	25.14 25.53	1988 5142	yes 1.23	9337	0.005342		-0.000427838	39	no	0.704	-
117 PCB 137	HxCB	362 360	25.51 2 5.72	4195 1345	yes 1.22	2444	0.001443		-0.000441639	35 12	ves	0.682	_
	HxCB	362	25.75	1099	yes					15		4.074	
118 PCB 164	НхСВ	360 362	25.82 25.83	3269 2930	1.12 yes	6199	0.002324		-0.000280445	24 21	yes	1.074	-
119 PCB 138/163/129	HxCB	360	26.12 26.15	1 12626 87289	1.29	199914.	0.097111		-0.000363326	783 730	no	0.829	-
120 PCB 160		360	NotFnd		yes *	•	-0.000327389		-0.000327389	*	uò	0.92	-
121 PCB 158	HxCB	362 360	26.30 26.50	9536	no 1.2	17452	0.006461		-0.000276836	63	no	1.088	
	HxCB	362	26.47	7917	yes					68		0.893	
122 PCB 128/166	нхСВ	360 362	27.31 27.31	14990 12471	1.2 yes	27461	0.012387		-0.000337287	94 69	yes		•
123 PCB 159	HxCB	360	NotFnd 28.27		no	•	-0.000234164		-0.000234164	:	no	1.209	-
124 PCB 162		360	28.54	-693	1.24	-1251.871	-0.000403064	PCB 162 NDR	-0.000234747	4	хL	1.206	-
125 PCB 167	HxCB	362 360	28.53 29.0 1	-558.871 4777	OK 1.33	8379	0.002656	•	-0.000256668	6 28	no	1.103	-
126 PCB 156/157	HxCB		29.02	3602	yes 1,22	15227	0.005017		-0.000270396	28 44	no	1.047	_
126 PCB 156/15/	НхСВ	360 362	30.15 30.18	8412 6914	yes	15327				47	110		-
127 PCB 169	НхСВ	360 362	NotFnd 33.56	:	no	•	-0.000272216		-0.000272216	:	no	1.04	-
128 PCB 188		394	23.78	563	1.02	1112	0.000317		-0.000169589	4	yes	1.069	-
129 PCB 179	нрсв	396 394	23.79 24.08	11748	1.2	21498	0.008483		-0.000162884	6 90	no	1.113	-
130 PCB 184	НрСВ	396 394	24.07 NotFnd	9750	yes •		-0.000169747		-0.000169747	77 *	no	1.068	
	НрСВ	396	24.55	*	no					*			
131 PCB 176	НрСВ	394 396	24.87 24.86	2568 2551	1.01 yes	5119	0.002157		-0.000173816	21 21	no	1.043	-
132 PCB 186		394	NotFnd		•	*	-0.000184238		-0.000184238		no	0.984	7
133 PCB 178	HpCB	394	25.26 26.53	6043	no 1.06	11719	0.006735		-0.000237291	44	no	0.764	-
134 PCB 175	НрСВ	396 394	26.54 27.16	5676 -661.5	yes 1.05	-1291.5	-0.000696863	PCB 175 NDR	-0.000222989	47 6	хL	0.813	_
	НрСВ	396	27.14	-630	OK					6			
135 PCB 187	НрСВ	394 396	27.40 27.37	40139 38161	1.05 yes	78299	0.041818		-0.00022028	305 304	no	0.623	•
136 PCB 182	•	394	NotFnd	•	•	*	-0.000227752		-0.000227752		no	0.796	-
137 PCB 183	НрСВ	394	27.59 28.01	14809	no 1.02	29364	0.01214		-0.00045701	76	yes	1.063	-
138 PCB 185	НрСВ	396 394	27.99 NotFnd	14 5 55	yes *		-0.000592441		-0.000592441	76 *	no	0.82	_
	НрСВ	396	28.08		no					10			
139 PCB 174	НрСВ	394 396	28.23 28.24	1894 1841	1.03 yes	3735	0.001809		-0.000535613	10 10	yes	0.907	-
140 PCB 177	НрСВ	394	28.65	9239 9883	0.93	19122	0.00943		-0.000545231	45 51	no	0.891	-
141 PCB 181		394	28.65 NotFnd	•	yes •	•	-0.000539779		-0.000539779	•	no	0.9	-
142 PCB 171/173	НрСВ	396 394	29.06 29.29	4354	no 0.92	9093	0.004572		-0.000555837	2 3	no	0.874	-
	НрСВ	396	29.28	4739	yes					25		0.903	
	НрСВ		30.93 30.93	31 5 294	1.07 yes	608	-0.000537986		-0.000537986	•	yes		•
144 PCB 192		394	NotFnd	•	•	•	-0.000441236		-0.000441236	•	no	1.101	-

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	HpCB 396	31.24		no								
145 PCB 193/180	394 HpCB 396	31.63 31.59	19383 19019	1.02 yes	38402	0.016621		-0.00041988	84 93	no	1.157	-
146 PCB 191	394	31,97	463	1.12	875	-0.00039368		-0.00039368	•	yes	1.234	-
147 PCB 170	HpCB 396 394	31.97 32.92	412 3593	9.96 9.96	7318	0.003887		-0.00041486	16	yes	1.171	-
148 PCB 190	HpCB 396 394	32.94 33.48	3726 1684	yes 0.99	3384	0.001192		-0.000389576	16 9	yes	1.247	
	HpCB 396	33.50	1700	yes	1257	0.000614		-0,000295235	8 5	yes	0.922	_
149 PCB 189	394 HpCB 396	36.35 36.32	613 644	0.95 yes					5			
150 PCB 202	428 OcCB 430	28.77 28.76	1970 1969	1 yes	3940	0.006506		-0.000766004	36 19	no	1.031	
151 PCB 201	428 OcCB 430	29.72 29.68	-716 -804.4944	0.89 OK	-1520.494	-0.001400707	PCB 201 NDR	-0.000732607	11 14	xL	1.078	
152 PCB 204	428	NotFnd			•	-0.000745047		-0.000745047		no	1.06	
153 PCB 197	OcCB 430 428	30.37 NotFnd		no •	•	-0.000729898		-0,000729898	11.4	no	1,082	
154 PCB 200	OcCB 430 428	30.60 NotFnd		no		-0.000777313		-0.000777313		no	1,016	
155 PCB 198/199	OcCB 430 428	30,72 NotFnd		no		-0.001016409		-0.001016409		no	0.777	
	OcCB 430	33.65		no								
156 PCB 196	428 OcCB 430	NotFnd 34.39		по		-0.000964286		-0.000964286		no	0.819	
157 PCB 203	428 OcCB 430	34.60 34.58	757 804	0.94 yes	1561	0,003017		-0.000957273	10 8	yes	0.825	
158 PCB 195	428 OcCB 430	NotFnd 36.03		no		-0.000330881		-0.000330881		no	0.931	
159 PCB 194	428	38.65	-608	0.89	-1291.146	-0.001332851	PCB 194 NDR	-0.000320218	10	xL	0.962	
160 PCB 205	OcCB 430 428	38.65 NotFnd	-683.1461 •	OK		-0.000310534		-0.000310534	13	no	0.992	
161 PCB 208	OcCB 430 462	39.20 NotFnd		no •		-0.001084358		-0.001084358		по	1.042	1986139
162 PCB 207	NoCB 464 462	35.81 NotFnd		no •		-0.000920115		-0.000920115		no	1,228	_
	NoCB 464	36.85	:	no					•			
163 PCB 206	462 NoCB 464	NotFnd 41.17	*	no		-0.001111014		-0.001111014		110	1.017	-
164 PCB 209	498 DCB 500	43.04 43.06	1393 1048	1.33 yes	2441	0.003405		-0.00048931	. 19 18	no	1.026	-
165 PCB 1L	200 202	8.79 8.82	370259 114492	3.23 yes	484751	0.090902		0.001	3994 129	no	0.997	46
166 PCB 3L	200	9.99	399757	3.21	524482	0.093375		0.001	4604	no	1.05	47
167 PCB 4L	202 234	9.99 10.10	124725 144424	yes 1.47	242693	0.097718		0.001	152 715	no	0.464	49
168 PCB 15L	236 234	10.10 12.68	98269 536160	уэз 1.6	870255	0.139336		0	1109 873	no	1.168	70
169 PCB 19L	236 268	12.69 11.46	334095 182646	yes 1.1	349192	0.12185		0.002	1009 230	no	0.536	61
	270	11.47	166546	yes					197			
170 PCB 37L	268 270	16.33 16.33	497684 484828	1.03 yes	982312	0.168264		0.001	420 526	rio	1.848	84
171 PCB 541.	302 304	12.82 12.81	147443 189546	0.78 yos	336989	0.132978		0	710 2204	no	0.802	67
172 PCB 81L	302 304	20.97 20.95	425794 546750	0.78	972544	0.192702		0	1341 2956	no	1,597	97
173 PCB 77L	302	21.41	434246	9es 0.8	977193	0.192452		0	1308	no	1.607	97
174 PCB 104L	304 338	21.40 15.60	542948 276019	yes 1.62	446654	0.168898		0	2804 9751	no	0.912	85
175 PCB 123L	340 338	15.64 23.04	170635 580878	yes 1.59	945597	0.206184		0	4450 2142	no	1.581	103
176 PCB 118L	340 338	23.02 23.31	364719 560401	yes 1.62	905857	0.206836		0	1501 2044	no	1.51	104
	340	23.31	345456	yes					1422			101
177 PCB 114L	338 340	23.78 23.78	533501 329828	1.62 yes	863328	0.202296		0	1917 1333	no	1.471 .	
178 PCB 105L	338 340	24.35 24.34	483321 315077	1.53 yes	798398	0.184915		0	1775 1241	no ·	1.488	93
179 PCB 126L	338 340	27.17 27.15	348764 216721	1.61 yes	565485	0.135309		0	1131 8 13	no	1.44	68
180 PCB 155L	372	19.22	313936	1.24	567084	0.226604		- 0	5010 4929	no	1.01	114
181 PCB 167L	374 372	19.26 28.99	253147 318721	yes 1.27	570326	0.161687		0	1102	no	1.424	81
182 PCB 156L/157L	374 372	29.00 30.15	251605 651399	yes 1.27	1163094	0.314173		0	1339 1873	no	1.495	79
183 PCB 169L	374 372	30.15 33.53	511695 149266	yes 1.33	261501	0.069558		0	2216 500	no	1.518	35
	374	33.54	112235	yes		0.231011		0 .	569 4299		1.142	116
184 PCB 188L	406 408	23.76 23.78	336940 316 7 78	1.06 yes	653717				2683	no		
185 PCB 180L	406 408	31.59 31.58	204418 193552	1.06 yes	397971	0.28128		0.001	1131 2739	no	1.343	141
186 PCB 170L	406 408	32.90 32.89	163127 157480	1.04 yes	320606	0.266581		0.001	863 2157	no	1.141	134
187 PCB 189L	406	36.29	226002	1.04	442722	0.218488		0.001	774	no	1.923	110
188 PCB 202L	408 440	36.29 28.74	216720 55721	yes 0.91	117104	0.192751		0	1937 1697	no	1.353	97
189 PCB 205L	442 440	28.74 39.19	61383 133219	yes 0.89	282754	0.188457		0	1407 2531	no	1.424	95
190 PCB 208L	442 474	39.19 35.78	149535 141041	yes 0.77	324655	0.235317		0	1517 1047	no	1.309	118
	476	35.79	183613	yes					2653		0.924	88
191 PCB 206L	474 476	41.17 41.20	7 5435 94511	0.8 yes	169946	0.174643		0.001	556 1366	no		
192 PCB 209L	510 512	43.02 43 .06	7 5325 63915	1.18 yes	139239	0.159529		0	3416 2516	no	0.828	80
193 PCB 28L PCB Cleanup S	268	14.11 14.12	562914 552484	1.02	1115398	0.179294		0.001	536 671	no	1,969	81
POB Cleanup S	wanudiu 270	14.12	JUZ484	yes					J1 1			

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194 PCB 111L	338	21.41 21.40	527727 331176	1.59	858903	0.215634		0	4357 4600	no	1.373	97
	406	26.51	197519	yes 1.06	383503	0.21142		0	2382 1466	no	0,732	96
PCB Cleanup Standard 196 PCB 31L	268	26.52 13.91	185985 1535	yes 1.27	2743	0.000462		0.001	1	no	1.878	0
	338	13.97 NotFnd	1208	no •	*			0	,	no	0.916	
	372	17.38 24.96	8467	no 1.46	14280	0.004916		0	150 47	no	1.173	2
PCB Audit Standard 199 PCB 9L	234	24.98 10.99	5813 3592190	no 1.54	5920874	14.479357		-	6174 7369	no	-	-
PCB Recovery Standard 200 PCB 52L	302	11.00 15.05	2328684 1560462	yes 0.81	3498485	15.178263		-	5702 6604	no	-	-
	338	15.05 19.38	1938023 1980175 1232271	yes 1.61	3212447	15.261057		-	17384 18372	no	-	-
PCB Recovery Standard 202 PCB 138L	372	19.36 26.10	1535807 1206759	yes 1.27	2742565	12.639177		-	25342 10329	no	-	-
PCB Recovery Standard 203 PCB 194L PCB Recovery Standard	440	26.07 38.65 38,59	557733 609003	yes 0.92 ves	1166735	6.755051		-	10951 6165	no	-	-
Chlorobiphenyls Dichlorobiphenyls Trichlorobiphenyls Trichlorobiphenyls Pentachlorobiphenyls Pentachlorobiphenyls Hexachlorobiphenyls Heptachlorobiphenyls Octachlorobiphenyls Nonachlorobiphenyls Decachlorobiphenyls PCB (total)	442	35.59	609003	yes		-0.000133494 0.00926 0.01396 0.084527 0.217356 0.412635 0.109775 0.009523 -0.001111014 0.003405 0.860441	0 2 6 13 15 20 13 2	-0.000133494 -0.000554451 -0.000868455 -0.000700468 -0.000393291 -0.00048502 -0.001016409 -0.001111014 -0.00048931				

Maxxam Analytics

Acquired Date

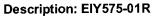
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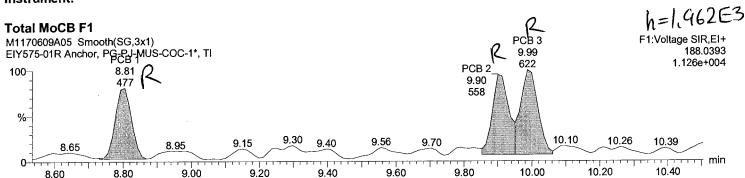
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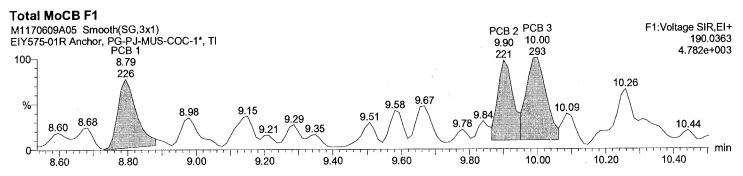
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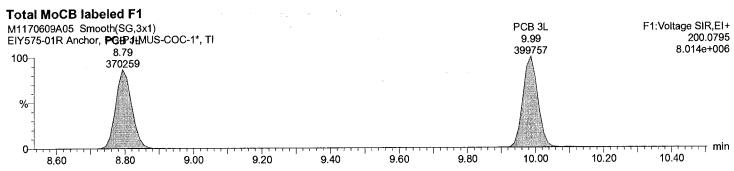


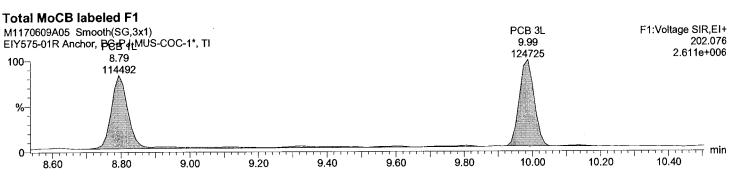
Vial: 5

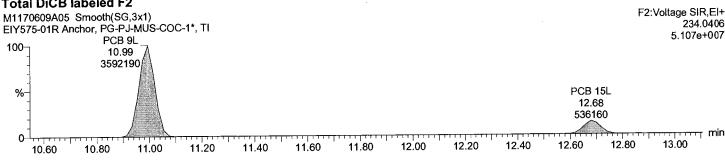
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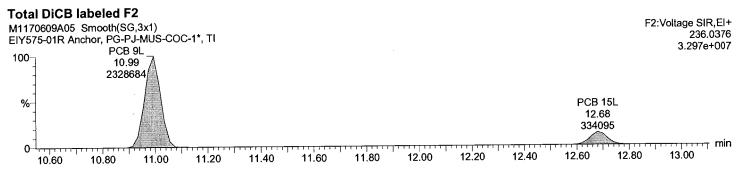


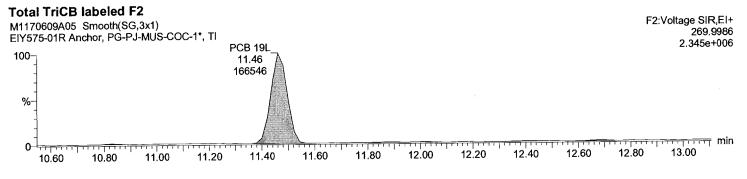












13.25

13.50

13.75

14.00

14.25

14.50

14.75

%

16.25

15.75

15,50

15.00

15.25

16.00

min

16.50

h=1,070 E3

F2:Voltage SIR,EI+

Quantify Sample Report

MassLynx 4.0 SP1

Acquired Date

Dataset:

Printed:

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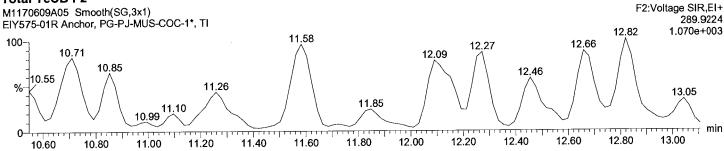
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Vial: 5

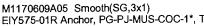
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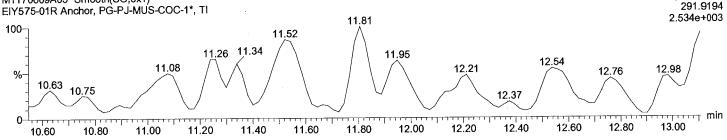


M1170609A05 Smooth(SG,3x1)



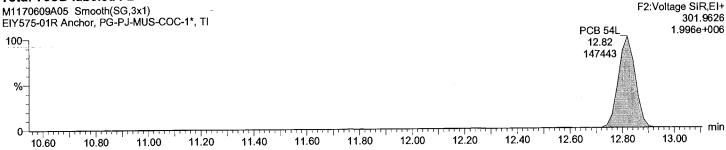






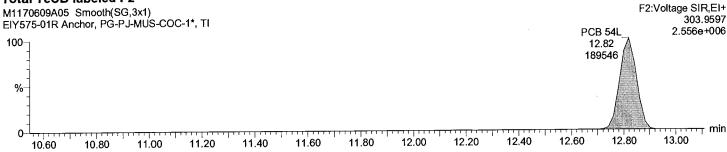
Total TeCB labeled F2

M1170609A05 Smooth(SG,3x1)



Total TeCB labeled F2

M1170609A05 Smooth(SG,3x1)



Quantify Sample Report

MassLynx 4.0 SP1

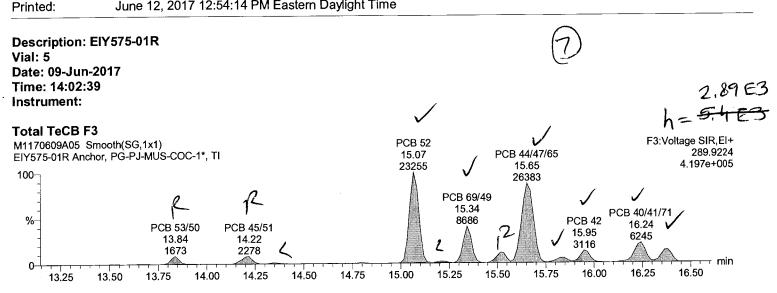
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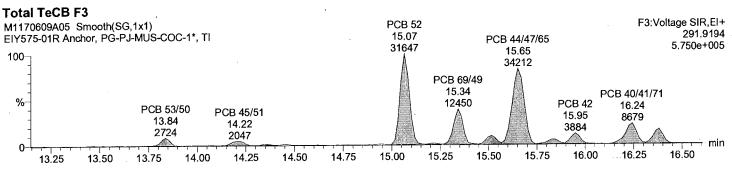
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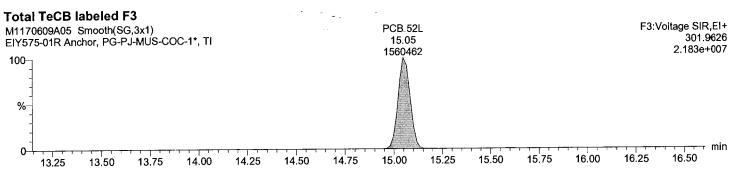
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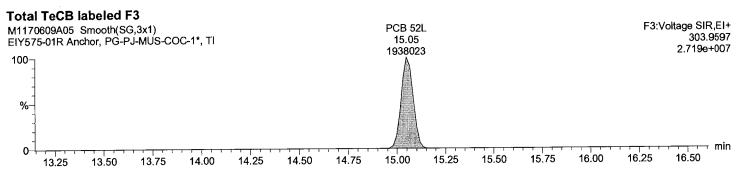
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June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time









h=2,314E3

F3:Voltage SIR,EI+

F3:Voltage SIR, EI+

PCB 96

PCB 104L

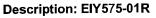
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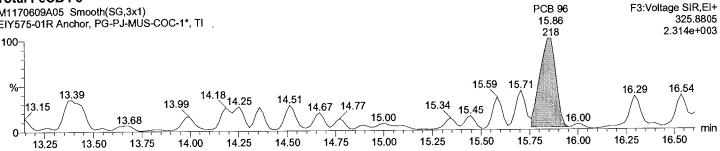


Vial: 5

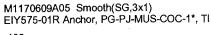
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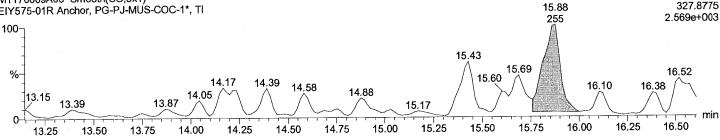


M1170609A05 Smooth(SG,3x1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI



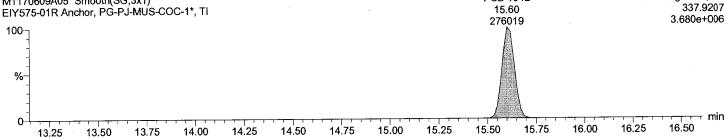




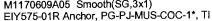


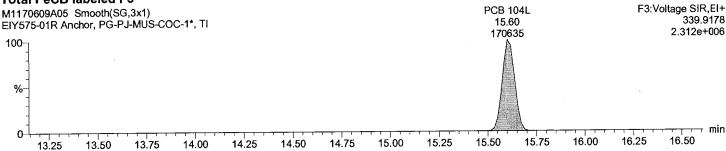
Total PeCB labeled F3

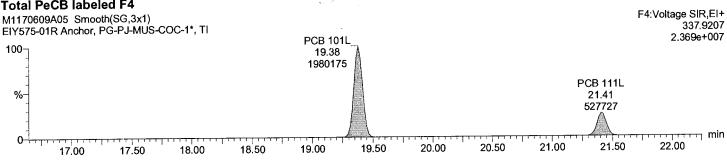
M1170609A05 Smooth(SG,3x1)

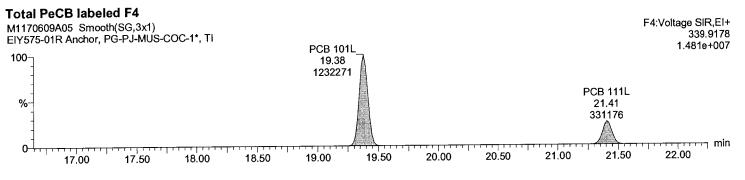


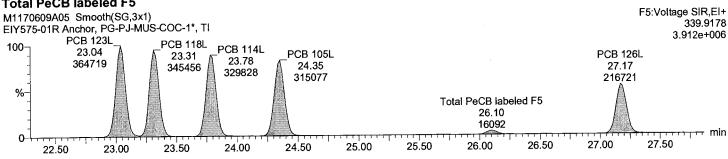
Total PeCB labeled F3











17.00

18.00

17.50

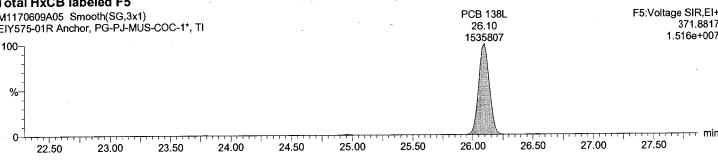
18.50

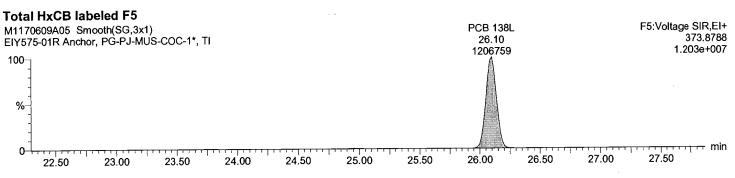
19.00

19.50

20.00

20.50





22.50

M1170609A05 Smooth(SG,3x1)

100

%

EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

23.00

PCB 188L

23.76

316778

23.50

24.00

24.50

25.00

25.50

26.00

27.50

PCB 178L

26.51 185985

26.50

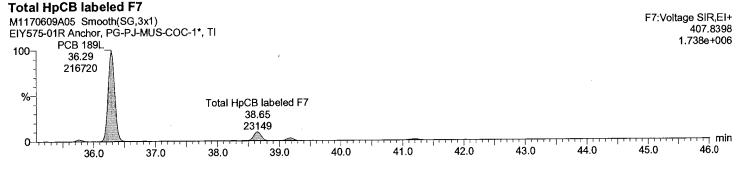
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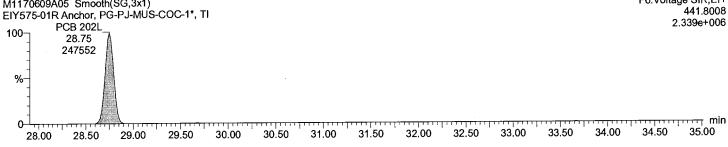
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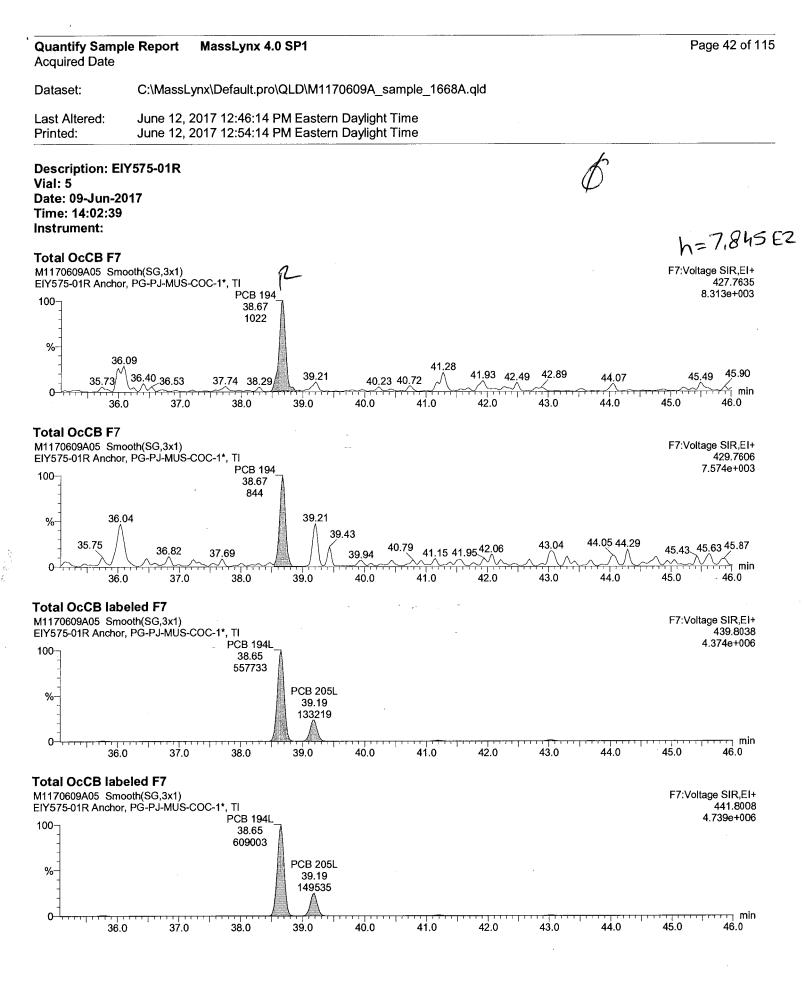
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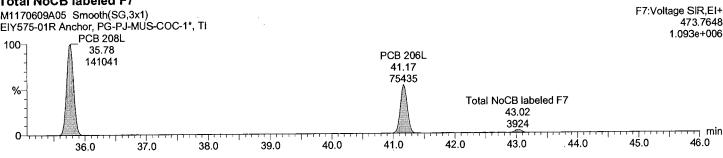
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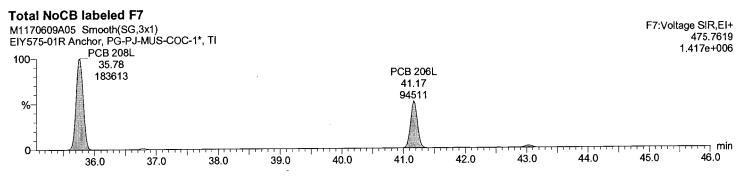
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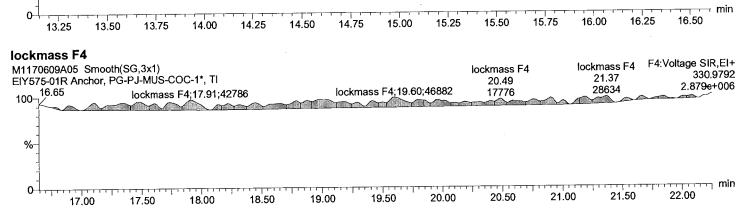












Quantify Sample Report

MassLynx 4.0 SP1

38.0

37.0

36.0

39.0

40.0

41.0

42.0

43.0

44.0

Acquired Date

Dataset:

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Last Altered:

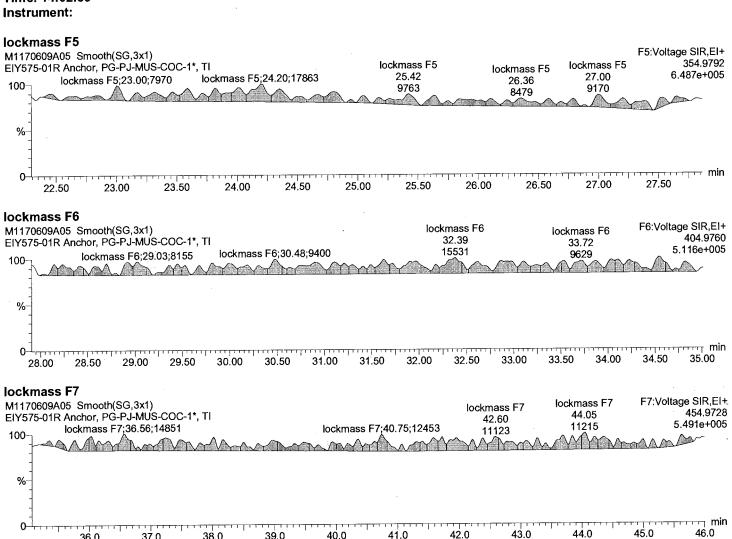
June 12, 2017 12:46:14 PM Eastern Daylight Time June 12, 2017 12:54:14 PM Eastern Daylight Time

Description: EIY575-01R

Vial: 5

Printed:

Date: 09-Jun-2017 Time: 14:02:39



45.0

2017-06-12

Before M3

11.360

11.380

11.400

11.420

11.460

11.520 min

25,708,12

Maxxam Analytics

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PCB 8 11.34 3366.57 74182

PCB 8 11.34 3366.57 74182 2017-06-12 After MT2 MT3

11.460

11,480

11.500

11.520 min

F1:Vollage SIR,EI+ 236.0378 1.5449+003 F1:Voltage SIR,EI+ 234.0406 2.592e+004

M1170609A05 Smooth(SG,3xf) EIY575-01R Archor, PG-PJ-MUS-COC-1*, TI M1170809A05 EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI M1170609A05 EIY575-01R Anchor, PG-PJ-MUS-COC-1", TI

2017063

F2:Voltage SIR,EI+ 222,0003 9,780e+004 MT2 2017-06-12

M1170809A05 Smooth(SG3x1) E1Y575-01R Anchor, PG-PJ-MUS-COC-1*, TI

12.50 1081.64 28445

PCB 15 12.70 3352.02 51586

PCB 15 12.70 3352.02 51588

PCB 15 12.70 2677.31 61462

Before M3

12.480 12.500 12

By Solis

Maxxam Analytics

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2017-06-12

M1170509A05 Smooth(SG,3X1) E17575-01R Anchor, PG-PJ-MUS-COC-1*, TI

12.300 12.320 12.340 12.380 12.380 12.400 12.420 12.440 12.480 12.480 12.520 12.520 12.540 12.580 12.580 12.500

12.700 12.720 12.740 12.780 12.800 12.820 12.840 12.860 12.880

M1170008A05 EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

PCB 11;12.42;13719.52;284011

12.56 1081.64 28445

PCB 15 12.70 2387.43 48893 PCB 11;12.41;19287.97;463073

Fla

70,706,3

Maxxam Analytics

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M177000305 Smooth(SG3A))
EN77501R Anchor, PG-PJAMJS-COC-1*, II
100
3
0
117,480 17,500 17,500 17,500 17,500 17,500 17,500
17,480 17,500 17,500 17,500 17,500 17,500 17,500 17,500
M172

17.080 17.700 17.720

17.880 17.900 17.920

F3:Vollage SIR,EH 339.9178 5.243e+001 M1170509A05 Smooth(SG2xt) EIY575-01R Anchor, PG-PJ-MUS-COC-11, TI M1170608A05 Smooth(SG,2x1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

2017 0613

Maxxam Analytics

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M170008465 Smooth(Sc2241)
EINST-SOIR Archor, PG-P-JAUS-COC-1-, TI

100
M170008405 Smooth(Sc241)
EINST-SOIR Archor, PG-P-JAUS-COC-1-, TI

100
M1710008405 Smooth(Sc241)
EINST-SOIR Archor, PG-P-JAUS-COC-1-, TI

100
M171000 M171000 M17100 M171

17.700 17.720

17.800

17.840

17.860 17.880 17.900 17.920

12170613

2017-06-12

Before M3

17,880

17.980

18.000

18.020

18.040

18.060

18.080 min

F3:Voltage SIR,EI+ 339,9178 5,243e+90?

20170613

Maxxam Analytics

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M1170609A05 Smooth(SG,2X1) ENS75-01R Anchor, PG-PJ-MJS-COC-1*, TI

18,080 min

Bronoe

MT2

Affer

2017-06-12

2017-06-12

M1170609A05 Smooth(SG,3X1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI M1170608A05 Smooth(SG/2XI)
ENS75-01R Anchor, PG-PJ-MUS-COC-1*. TI

PCB 108/124 22.76 2436.21 28538 M1170809A05 Smooth(SG,2x1)
EIY575-01R Anchor, PG-PJ-M/US-COC-1*, TI

Befor

22.575 22.500 22.625 22.650 22.675 22.700 22.725 22.750 22.775 22.800 22.825 22.850 22.875

22,900 22,925 22,980 22,975 23,000 23,025 23,050 23,075 23,100 23,125 23,150 23,175 23,200 23,225 min

F3:Vollage SIR,EH 53:Vollage SIR,EH 339.9179 5.243e+001

10 V 001.2

Maxxam Analytics

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2017-06-12

MT2

22,575 22.600 22.625 22.650 22.675 22.700 22.725 22.750 22.775 22.800 22.825 22.850 22.875 22.900 22.925 22.950 23.000 23,100

M1170609A05 Smooth(SG_2X1)
ENS75-01R Archor, PG-PJ-MJS-COC-1*. Ti M1170609A05 Smooth(SG,2x1) EN575-01R Anchor, PG-PJ-MUS-COC-1*, Ti M1170609A05 Smooth(SG.3x1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI 23.125 23.150 23.175 23.200 23.225 F3:Voltage SIR,E:+ 330.9178 5.243e+001

2017-06-12

MT2

Before M3 22.470 22.490 22.500 22.510 22.520 22.540 22.550 22

F4:Vollage SIR,EH 373.8788 4.727e+001

20170613

Maxxam Analytics

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2017-06-12

M1170609A05 Smooth(SG3x1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

IAC5 Smooth(SG,3x1) R Anchor, PG-PJ-MUS-COC-1*, TI

PCB 134/143/22.53/2703.59/37657

After

22.400 22.470 22.490 22.500 22

TON OC:3

Maxxam Analytics

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2017-06-12

25.500 25.580

25,940 25,960 25,980 26,000

Before

Maxxam Analytics

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PCB 137 25.82 4728.24 37573

PCB 137 25.84 2929.95 20088

MT2 2017-06-12 M1170809A05 Smooth(SG,3x1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI PCB 137 25.72 1098.81 18426 PCB 194
25.82
25.82
376.90
37100
PCB 194
PCB 194
25.54
255.84
255.86
255.86

25.940 25.960 25.980 28.000

k/1170508A05 Smooth(SG,1x1) EIY575-01R Anchor, PG-PJ-k/US-COC-11, Ti

20170613

2017-06-12 Before MT2 M3

27.050

27.150

27.600

27.850

27.700 min

F4:Vollage SIR,EI+ 373.8788 4,727e+001 M1170609A05 Smooth(SG3x1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*. TI M1170808A05 Smooth(SG,1x1) EN575-01R Anchor, PG-PJ-MUS-COC-1*, TI

M1170608405 Smooth(SG.1x1)
ENS75-01R Anchor, PG-PJ-MJS-COC-1*, TI

2000613

Maxxam Analytics

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F5:Voltage SIR,E!+ 359,8415 1,476e+005

2017-06-12

Afa

27.250

27.550

27,650

27.700 min

F4:Voltage SIR,EH-373.6789 4.727e+001

Maxxam Analytics

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k/1170609/405 Smooth(SG,1x1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

2017-06-12

MT2

Before

M3

20170613

F5:Voltage SIR,EH-407.8389 9.058e+001

2017-06-12

M1170609A05 Smooth(SG.3x1)
E11575-01R Anchor, PG-PJ-MUS-COC-1*, TI

28.140 28.150 28.160 28.170 28.180

28.200 28.210 28.220 28.230 28.240 28.250

28.290 28.270 28.280 28.290 28.300 28.310 28.320 28.330 28.340 28.350 28.360 28.370 28.360 28.390 28.400

F5:Vollage SIR,E!+ 407.8398 9.058e+601

F6:Voltage SIR,Ei+ 393,8025 2,043e+004

ht1170509A05 Smooth(SG,1x1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

PCB 174:28:22:1840.52;20968

2017-06-12

32,40

32.65

32.70

32.75

32.95

33.05

33.10

33.20

33.25

33.30

33.35 min

M1170609A05 Smooth(SG,3X1) ElY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

Before

2000000

Maxxam Analytics

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2017-06-12

M1170609A05 Smooth(SG3X1) ElY575-01R Anchor, PG-PJ-MUS-COC-1*, TI M1170609A05 Smooth(SG,1X1)
EN575-01R Anchor, PG-PJ-MUS-COC-1*, 71

M1170608A05 Smooth(SG,1x1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

M1170809/05 Smooth(SG.3X1)
EIYS75-01R Anchor, PG-PJ-MUS-COC-1*, TI

32,40

32,55

32.60

32.70

32.75

32.85

32.95

33.16

33.25

33.30

33,35 min

F5:Voltage SIR,EI+ 407,8398 9,058a+001

Ha

20170613

2017-06-12

M1170609A05 Smooth(SG.3x1) E1Y575-01R Anchor, PG-PJ-MUS-COC-1*, TI

33.35

33.50

33.55

33.65

33.70

33,75

33.80

33.85

34.10

34.15

M1170609A05 Smooth(SG,3x1) ElY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

> PCB 190 33,48 1998.24 15802

Before M3

2017 ploj3

Maxxam Analytics

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M1170609A05 Smooth(SG,1x1) EY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

MT2 2017-06-12 M1170609A05 Smooth(SG,3x1)
EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI 33.25 33.40 Affer 33.60 33.85 33.70

33,80

33.85

34.00

34.05

34.10

34.15 min

20170613

2017-06-12 Before MT2 M3

42.85

42.90

42.95

43.00

43.20

43.25

43.30

43.35

43,40

M1170609A05 Smooth(SG3X1) EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI M1170609A05 Smooth(SG,3x1) EIY575-01R Anchor, PG-PJ-A/US-COC-1*, TI

76/106/3

Maxxam Analytics

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2017-06-12

M1170609A05 Smooth(SG,3x1)
EIY575-01R Anchor, PG-PJ-MUS-COC-1*, TI

After

42.85

42.95

43.00

43.20

43.25

43.30

43.35

43.40

20170613

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F7:Voltage SIR,EI+ 497,6825 1,116e+004

PCB 209;43.04;1393.14;11104

PCB 209;43.09;1047.84;8858

Filename M1170609B04 Acquired 06/09/2017 21:11

Call File PCB209_M1170609B

Sample ID EiY563-01R Comments Instrument File Ultima 1 Sample Size 10.051

ElY563-01R, reinj

Dil Fac 1.00

Name		mass Dr											
1 PCB 1			Fnd •	a ra		t Area ng/ * -0.000		Isomers	DL	S/N	Mod	πf	Rec
2 PCB 2		188 Not	Fnd +	n _*	0	* -0.000			-0.00073	•	no	1.053	
3 PCB 3		188 Not		ne *)			,	-0.00064	*	no	1.198	-
4 PCB 4		222 10.1		no 9 1.0	_	-0.000			0.00072	*	no	1.055	-
5 PCB 10		222 Not	2 161)			-	0.00177	*	по	. 1,191	-
6 PCB 9	DiCB 2	224 10.2 222 NotF		no		-0.007	82	4	0.00182	*	по	1.156	-
7 DCD 7	DICB 2	24 11.0		no		* -0.001	12	-(0.00112	*			
7 PCB 7	DICB 2	22 NotF		*		-0.0012	24			*	по	1.544	-
8 PCB 6	2:	22 11.1		no 0.99	9 46			٠,	0.00124	*	no	1.399	-
9 PCB 5	DICB 2:	22 NotF	9 2364		•			-0	.00122	*	no	1.424	٠.
10 PCB 8	DICB 22	24 11.31 2 2 11.3 6		no		-0.0011	8	-0	.00118	*	no	1.462	
11 PCB 14	DICB 22 22	24 11.38	7995	yes	193	36 0,00383	15	-(0.0012	18	no	1.443	
12 PCB 11	DICB 22	4 12.05	•	no	*	-0.0011	5	-0.	.00115	17	no	1.506	
13 PCB 13/12	DiCB 22	4 12.42		1.57 yes	690	54 0.01391	5	-0.	00122	5 7			•
	22 DiCB 22		d + +	•	*	-0.0012			.0012	54	no	1.42	-
14 PCB 15	22: DICB 22:	2 12,70	8944 6125	no 1.46	1507	78 0.002912	2			*	по	1.443	-
15 PCB 19	256 TriCB 258	11.48	6135 1678	yes 1	335	3 0.00145			00181	11 10	no	0.956	-
16 PCB 30/18	256 TriCB 258	12.27	1674 25598	yes 1,14	4810			-0.0	00052	17 1 7	yes	1.06	-
17 PCB 17	256	12.46	22502 9514	yes 1.09	1827			-0.0	00054	240 218	no	1.033	-
18 PCB 27	TrlCB 258 256	12.56	8757 3050	yes 0.95				· -0.0	0066	7 9 73	no	0.838	
19 PCB 24	TriCB 258 256	12.56	3218	yes *	6268			-0.0	0048	22	no	1.164	-
20 PCB 16	TriCB 258 256	12.61 12.68	*	no	•	-0.00041		-0.0	0041	22 *	no	1.35	_
21 PCB 32	TriCB 258 256	12.69	-6206.72 -5968	1.04 OK	-12174	.7 -0.0055	PCB 16 NDR	-0.0	0091	48	хL	0.606	_
	TrICB 258	12.90 12.90	13182 13400	0.98	26582	0.005431		-0.00	0042	36 116			-
22 PCB.34	256 TriCB 258	NotFnd 13.48	*	yes *	•	-0.00026		-0.00		112	no	1.334	-
23 PCB 23	256 TriCB 258	NotFnd 13.56	*	no *	•	-0.00028				*	no	1.427	-
24 PCB 26/29	256 TriCB 258	13.70	11959	no 1.03	23548	0.00445		~0.00		*	no	1.32	•
25 PCB 25	256 TriCB 258	13.72 13.82	11588 8006	yes 1.08	15440	0.00303		-0.00		60 61	no	1.443	
26 PCB 31	256	13.85 13.98	7434 7 8 608	yes 1.03	155064			-0.00		38 3 7	no	1.389	-
27 PCB 28/20	TriCB 258 25 6	14.01 14.13	76456 124833	yes 1.02		0.027693		-0.00	025 3	378 393	no	1.527	-
28 PCB 21/33	TriCB 258 256	14.16 14.25	121844 26424	yes	246677	0.046674		-0.000	026 6	312	no	1.441	-
29 PCB 22	TriCB 258	14.27	25084	1.05 yes	51508	0.010097		-0.000		30 19	no	1.391	
	256 TriCB 258	14.48 14.47	25816 24500	1.05 yes	50317	0.010108		-0.000		18 22			-
30 PCB 36	256 TriCB 258	15.29 15.30	3589 3815	0.94	7404	0.001237			1	18	ПО	1.357	•
31 PCB 39	256 TriCB 258	NotFnd 15.50	*	yes *	*	-0.00026		-0.000	1	6 6	no	1.632	•
32 PCB 38	256 TrICB 258	NotFnd	•	ΠO *		-0.00025		-0.000		•	no :	1.448	•
33 PCB 35	256	15.87 16.10	* ~1482	no 1.04	-2907		DOD 0-14	-0.000	25 *	•	no 1	.474	-
34 PCB 37	TriCB 258 256	16.10 1 6.36	-1425 23222	OK 1.1		-0.00057	PCB 35 NDR	-0.0002	2 7 8		xL	1.4	-
35 PCB 54	TriCB 258 290	16.36 NotFnd	21185	yes	44406	0.009062		-0.0003	39 9 6	6	no 0	.951 .	
36 PCB 53/50	TCB 292 290	12.82 13.84	41104	no	•	-0.00047		-0.0004			no 1	.071 .	_
37 PCB 45/51	TCB 292 290	13.86	-11131 -14455.8	OK	25586.8	-0.0081	PCB 53/50 NDR	-0.0005	6 55	;	xL 0.	861	
38 PCB 46	TCB 292	14.20 14.21	16719	0.71 yes	28617	0.009422		-0.0005	66 8 47	}		832 -	
39 PCB 52	290 TCB 292	14.36 14.35	3031	0.73 yes	7200	0.002748	•	-0.0006	49				
	290 TCB 292	15.08 15.05	153100		63997	0.103794		-0.0005	16			718 -	
40 PCB 73	290 TCB 292	NotFnd 15.14	*	*	•	-0.00048		-0.00048	792	?		961 -	
41 PCB 43	290 TCB 292	15.22 15.21	3091 (7698 (0.002681				n	0 1.0)12 -	
42 PCB 69/49	290	15.36	90938			0.062692		-0.00061	16	n	0 0.7	'87 -	
	202	15,34	127112	/es		-		-0.00051	430 463	n	0.9	53 -	

43 PCB 48	3		290	15.52	16	841	0.82	2744		_					
44 PCB 44	1/47/65	TCB	292 290	15.50 15.65	20	600	yes	3744	1 0.01209	17	-0,0			no 0.	.848
45 PCB 59	Jenize	TCB	292	15.64	114 162		0.7 yes	27702	8 0.08279	9	-0.0		76 31		
		тсв	290 292	15.85 15.84	131 168	182	0.78	29986	0.00733	6		. 4	78	110 0.	917
46 PCB 42			290	15.97	261	95	yes 0.73	62163	0.02338	ı	-0.0		i3 ₁ i5	10 1.	.12
47 PCB 40	/41/71	TCB	292 290	15.94 16.24	359 413	68	yes 0.71				-0.0	0066 1	18 1	no 0.7	728
48 PCB 64		TCB		16.23	579	61	yes	99314	0.032009	•	-0.00	12 0057 17	••	10 0.	.85
		ТСВ	290 292	16.38 16.37	593 732			132598	0.033672	?	-0.00	18	32		
49 PCB 72		тсв	290	16.87	-2936	.78	yes 0.77 -	6750.7	8 -0.00129	PCB 72 NDR		25		o 1.0	079
50 PCB 68			290	16.90 17.04	-381 594		OK			12 (15)	-0.00	058 9 6		L 1.4	26
51 PCB 57	·	TCB :		17.08	734	•	yes	13290	0.002619		-0.00			D 1.3	39
52 PCB 58	-	TCB 2	292	NotFnd 17.36			* no	*	-0.00061		-0.00	11 061 *			
02 FGB 58	1	TCB 2		NotFnd 17.50	*		•	•	-0.00068			•		1.3	59
53 PCB 67		2	290	17.60	4118		no . 73	9742	0.001797		-0.00	068 * *	no	1.20	J6
54 PCB 63	'	ГСВ 2 2		17.59 17.77	5627 821 4	, y	es		0.001797		-0.000		no	1.48	35
55 PCB 61/7	T 0/74/76	CB 2	92 1	7.76	1069	D y	.77 1 es	18903	0.003649		~0.000	10 18 18	no	1.41	10
		CB 2		8.00 8.01	23369 30452	•		38221	0.111862		-0.000	18			
56 PCB 66	Tr	2: CB 2:	90 1	8.22	12612	9 Ó	es .8 2:	84352	0.056267			337	no	1.31	8 -
57 PCB 55		29	90 N	8.24 lotFnd	15822	3 y					-0.000		no	1.38	4 -
58 PCB 56	TO	CB 29 2 9	92 1	8.36	*	n	0	-	-0.00066		-0.000		no	1.24	Я .
	TO	CB 29	92 18	8.69 8.70	36870 511 1 3			7983	0.018743		-0.000	* 34 74			
59 PCB 60	TC	29 28 29	_	8.84 3.87	27207	Ó.7	1 6	5250	0.013999			77	по	1.286	ò -
60 PCB 80		29	0 N	otFnd	38043	ye *	s				-0.0006	54 55 5 7	no	1.277	, -
61 PCB 79	10	B 29 29		9.10 9 .25	* 4915	no	_		-0.00055		-0.0005		no	1.5	
62 PCB 78	TC	B 29	2 20	.23	6402	0.7 ye:		1317	0.002008		-0.0005	3 8	yes	1.544	
	TC	290 B 292		tFnd .67	*	*		•	-0.00059		-0.0005	9	,	1,044	•
63 PCB 81	TC	290 B 292) No	tFnd	•	ло *		*	-0.00081			*	no	1.394	-
64 PCB 77		290	21.		12717	0.77	7 20	207			-0.0008	1 *	по	1.02	-
65 PCB 104	TCE	3292 326		44 tFnd	16579	yes		297	0.006422		-0.0008		no	1.016	
66 PCB 96	PeCE	328	15.			no	,	•	-0.00026		-0.00026	23			
00 1 CD 30	PeCB	326 328			-2106.45	1.55	-346	5.45	-0.00119	PCB 96 NDR		*	ПО	1.194	-
67 PCB 103		326	16.9	99	-1359 7 681	OK 1.38	132	48 0	0.004466	100	-0.00038	14 11	хL	0.819	-
68 PCB 94	PeCB	328	16.9 17.1		5567 2052	yes					-0.00064	21	no	0.834	
69 PCB 95	PeCB	328 326	17.1	2	1504	1.36 yes	35	56 0	.001495		-0.0008	24 6	по	0.668	
	PeCB		17.4 17.4		236465 153530	1.54 yes	3899	96 0	.138801		-0.00068	6 623			-
70 PCB 100/93/1	102/98 PeCB	326 328	17.6 17.5		22723	1.75	3568	83 0.	.013857			635	по	0.789	-
71 PCB 88/91		326	18.0	0	12960 46572	yes 1.49	7775				-0.00074	39 37	no	0.724	-
72 PCB 84	PeCB	328 326	17.9: 18.1:		31181	yes			029571		-0.00072	125	no	0.739	
73 PCB 89	PeCB	328	18.12	2	46522 29150	1.6 yes	7567	72 O.	032223		-0.00081	128 124	no		
	PeCB :	326 328	18.48 18.45		2658 1535	1.73	419:	3 0.0	001642		-0.00075	119	,,,	0.66	•
74 PCB 121	PeCB :	326	NotFi	nd	*	yes *		-0	.00055		-0.00075	7 6	no	0.717	-
75 PCB 92	:	326	18.70 18.98		* 85182	no 1.56	4200				-0.00055	•	по	0.972	-
76 PCB 113/90/10	PeCB 3	328 326	18.96 19.41	i	54480	yes	13966	oz 0.0	52319		-0.00071	213	no	0.75	
77 PCB 83/99	PeCB 3	328	19.38		48946 7 3 21 269	1.52 yes	81073	6 0.2	66269		-0.00063	214 1223			
	PeCB 3	3 26 328	19.85 19.84		23368	1.54	56680	9 0.2	08092			1239	по	0.856	-
78 PCB 112		26	NotFn		*	yes *		-0.6	00059		-0.0007	804 832	по	0.765	-
79 PCB 109/119/8	6/97/125/ 3	28 26	19.92 20.23	2	16331	ПО 1.47	20212				-0.00059	*	по	0.907	-
80 PCB 117/116/8	PeCB 3	28 2 6	20.21	1	47072	1.47 yes	36340:	3 0,	1168		-0.00061	305	yes	0.874	
	PeCB 32		20.78 20.76		6 6245 1 4 150	1.5 yes	11039	5 0.03	34025		-0.00059	323 143	-		•
81 PCB 110/115	PeCB 32		20.90	4:	21721	1.48	705921	0.2	1318			152	по	0.912	-
82 PCB 82	32	26	20.88 21.16		84200 5800	yes 1.48	26513		0944		-0.00058	985 1030	по	0.93	-
83 PCB 111	PeCB 32 32		21.15 21.44	1	0713	yes		0.01	0944		-0.00079	35	no	0.681	_
84 PCB 120	PeCB 32	8	21.45	1	1 514 1043	1.45 yes	2558	0.00	0703		-0.00052	40 3	no		
	32 PeCB 32		21.82 21.81	-5		1.55	-9568.26	-0.00	0247 PC	B 120 NDR		4		1.022	-
85 PCB 108/124	32 PeCB 32	6	22.76	20	147	OK 1.65	32347	0.00		,	-0.00049	14 15	ХĹ	1.091	•
86 PCB 107	326	6	22.78 22.9 7		2199	yes 1.51					-0.00048	42	по	1.201	-
87 PCB 123	PeCB 328 326		22.98	37	999	yes	95489	0.019	9508		-0.00042	40 109	no	1.375	_
88 PCB 106	PeCB 328	3	23.07 23.08			1.58 yes	10361	0.002	2703		-0.00062	112 25			-
	326 PeCB 328		NotFnd 23.19		* '	*	•	-0.00	045			27	по	0.921	-
89 PCB 118	326	•	23.35	559	1095 1	ло .56	917011	0.232			-0.00045	*	по	1.282	-
	PeCB 328		23.33	357		/es		V.232	J14			1163	no	1.028	
												1147			

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90 PCB		326	23.64	-3610	1.55	-5030	3.03 0.00							
91 PCB	114	326	23.82	2329.03 6871	OK 1,49	1149	9.03 -0.00	122 (1	IDR	-0.00049	7 8	хL	1.158	
92 PCB	105	CB 328 326 CB 328	23.82 24.39	4620 144414	yes 1.59	2351				-0.00056	13 13	no	1.023	
93 PCB	127	326 CB 328	NotFnd	90705	yes *	*				-0.00056	277 273	no	1.024	
94 PCB ⁻	126	326	25.69 27.21 -1	* 1722.05	no 1.55	-2833.	-0.000 -0.000 0.			0.00045	*	no	1.256	
95 PCB 1	155	360	NotFnd	-1111	oĸ •	- 000.	-0.000	- 05 120 NE	DR .	0.00052	5 4	хL	1.093	-
96 PCB 1	52	360	19.26 NotFnd		no *		-0.0007			0.00059	*	no	1.103	-
97 PCB 1	50	360	19.40 19.52	* 2102	no 1.19	3874			-	0.00076	*	no	0.849	_
98 PCB 1:	36	360	19.80 5	1773 5673	yes 1.29	98750	******		-(0.00084	6 6	no	0.77	-
99 PCB 14	1 5	360 N	NotFnd	3077	yes *	*	-0.0008		-(.00079	138 135	no	0.816	-
100 PCB 14	18	360 2		* 427	no 1.34	5986	0.00365		-0	.00086	*	no	0.755	-
101 PCB 15	61/135 HxCE	360 2	1.63 18	559 5600	yes 1.25	333744			-0	.00105	8 8	no	0.617	-
102 PCB 15	4 HxCE	360 2·	1.84 22	8144 8 553	yes	41171	0.022437		-0	00108	350 347	no	0.6	-
103 PCB 14	4 HxCB	360 22	2.10 14	369	yes	25569	0.015596		-0.	00094	51 54	no	0.691	-
104 PCB 147	7/149 HxCB	360 22	2.38 557	173	yes	982663	0.457585		-0.	00105	34 33	no	0.618	-
105 PCB 134	⊮143 Hv∩R	360 22	.55 179	958 1	yes	31986	0.017503		-0.6		2007	yes	0.809	-
106 PCB 139	/140 HxCB	360 22		82 1	/es	20313	0.009519		~0.0	0063	105 104	no (0.689	-
107 PCB 131		360 23	05 320)8 1	es	6092	0.003539		-0.0	0054	67	no (0.804	-
108 PCB 142		360 Not	Fnd +		es •		-0.0006		-0.0	0067	40	no 0	0.649	-
109 PCB 132		360 23.4	45 1219	38 1.	16 22	25129	0.121182		-0.0	006		no 0	.718	-
110 PCB 133		360 23.8	37 1729)3 <u>1</u> .	es		0.015161		-0.00	-	92 28	no i	0.7	-
111 PCB 165		60 24.2	3 292	2 1.	4 5		0.001904		-0.00	9	34 r 10	10 0.	.786	-
112 PCB 146		60 24.4	4 17749	1.2	9 31		0.132671		-0.00	1		10 0,	992	-
113 PCB 161	HyCR 3	60 NotF	nd +	' *			-0.00043		-0.00	82		0,0	895	-
114 PCB 153/10		60 24.99	145129		7 259		0.985128		~0.00	*	n.	0 1.0	015	-
115 PCB 141,	36 HxCB 36	3Ó 25.17	22826	1.2	s 5 411		0.019777		-0.000	678		0.9	993 .	-
116 PCB 130	36 HxCB 36	0 25.53	17668	1.2	7 316	615 0	.016636		-0.000	11	1	0.7	'84 .	-
117 PCB 137	36 HxCB 36:	0 25.77	8619 6398	1.35		17 0.	.008384		-0.000	89		0.7	16 -	-
118 PCB 164	36 HxCB 362	25.84	37691 30450	yes 1.24	681	41 0.	.023141		-0.000	57		0.6	75 -	•
119 PCB 138/16: 120 PCB 160	HxCB 362	26.13 26.17	664863 5 28015		1192	878 0.	530517		-0.000	177	,	1.10)9 -	
121 PCB 158	360 HxCB 362	NotFno 26.31	d +	yes *	•	-0	.00046		-0.000	3023		0:84	17 -	
122 PCB 128/166	360 HxCB 362	26.49	32600 26359	1.24	5895	69 0.0	020136		-0.0004		по	0.94	3 -	
123 PCB 159	360 HxCB 362	27.33 27.33	62964 4 8798	yes 1.29	11176	62 0.0	45069		-0.0003	150	no	1.10	3 -	
124 PCB 162	360 HxCB 362	NotFnd 28.29	*	yes * no	•	-0.	00039		-0.0004 -0.0003	197	yes	0.93		
125 PCB 167	360 HxCB 362	28.60 28.55	3598 3015	1.19 yes	6613	0.0	02069		-0.0003	*	no	1.254		
126 PCB 156/157	360 HxCB 362	29.03 29.04	36723 30248	1.21 yes	66971	1 0.0	19568		-0.0004	15	yes	1.204		
127 PCB 169	360 HxCB 362	30.17 30.20	26492 21596	1.23 yes	48087	0.01	14876		-0.00047	131	no	1.103		
128 PCB 188	360 HxCB 362	NotFnd 33.58	*	no	*	-0.0	0048		-0.00048	77 79 *	по	1.047	-	
129 PCB 179	394 HpCB 396	23.80 23.80	-2788.8 -2656	1.05 OK	-5444.8	3 -0.0	0175 P	CB 188 NDR	-0.00048	• 11	no	1.04	-	
130 PCB 184	394 HpCB 396	24.09 24.09	80855 79662	1.01 yes	160517	0.06	6044		-0.00046	10 263	xL no	1.069	-	
131 PCB 176	394 HpCB 396 394	NotFnd 24.57	*	no	•	-0.00	0048		-0.00048	274	no	1.122		
132 PCB 186	394 HpCB 396 394	24.87 24.87	20003 18725	1.07 yes	38728	0.015	5853		-0.0005	* 63	no	1.054	-	
133 PCB 178	394 HpCB 396 394	NotFnd 25.28	*	no no	•	-0.00	0053		-0.00053	65 *	no	1.032	-	
134 PCB 175	HpCB 396 394	26.55 26.56	53794 56525	0.95 yes	110319	0.060	551		-0.00066	169	no	0.965	-	
135 PCB 187	HpCB 396 394	27.14 27.16	3839 4190	0.92 yes	8028	0.004	222		-0.00064	182 13	yes rio	0.77	-	
136 PCB 182	HpCB 396 394	27.42 27.40 NotEnd	379998 378157	1 yes	758155	0.393	472		-0.00063	14 1167	no	0.803	-	
	HpCB 396	NotFnd 27.61	•	no .	•	-0.000	064		-0.00064	1203	no	0.814	-	
										*	110	0.797	-	

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137 PCB 183	39 HpCB 39	94 28.0			4 1566	687 0.06 5517		-0.00	1 101			
138 PCB 185	39	NotF	nd *	77 yes	*	-0.00124			195	yes	1.01	- ا
139 PCB 174	HpCB 39	4 28.23		no 6 1.11				-0.0012	*	no	0.81	3 -
140 PCB 177	HpCB 39 39	4 28.67		5 yes				-0.001	12 12 12	ПО	0.90	1 -
141 PCB 181	HpCB 39 39		9296					-0.0011	15 235 232	no	0.878	3 -
142 PCB 171/173	HpCB 39 39	6 29.08		no 9 103		-0.00114		-0.0011		no	0.887	7 -
143 PCB 172	HpCB 394	6 29.30	2570	3 yes				-0.0011	8 62 63	по	0.854	
144 PCB 192	HpCB 396	6 30.94	1875 1723	yes		8 0.001749		-0.0011	6 4	no	0.869	
145 PCB 193/180	HpCB 396	31.26	•	• по	*	-0.00095		-0.0009	5 *	no	1.06	-
146 PCB 191	394 HpCB 396	31.61	82702 79030		16173	32 0.061778		-0.0008		по	1.172	-
	394 HpCB 396	31.99	1872 1656	1.13 yes	3528	0.001256		-0.0008	171 5 4	yes	1.186	
147 PCB 170	394 HpCB 396	32.94	7 202 7548	0.95 yes	14749	9 0.006727		-0.00086	4 3 15	no	1.171	
148 PCB 190	394 HpCB 396			no	*	-0.00087		-0,00087	17 7 *	no	1.165	
149 PCB 189	394 HpCB 396	36.35	-540.75 -515	1.05	-1055.7	75 -0.00047	PCB 189 NDR	-0.0004	* 4	хL	0.922	-
150 PCB 202	428 OcCB 430	28.79 28.80	30425	OK 0.82	67653	0.025247		-0.00046	4			•
151 PCB 201	428 OcCB 430	29.72	37229 10004	yes 0.82	22184	0.009568		-0.00044	159	no	1.031	-
152 PCB 204	428	29.72 NotFnd		yes *	*	-0.00045			43 51 *	по	1.078	•
153 PCB 197	OcCB 430 428	30.41 30.62	* 2870	no 0.81	6399	0.002749		-0.00045	*	no	1.06	-
154 PCB 200	OcCB 430 428	30.64 NotFnd	3529	yes *		-0.00047		-0.00044	12 13	yes	1.082	-
155 PCB 198/199	OcCB 430 428	30.7 5 33.70	* 1674	no 0.79	3797			-0.00047	*	no	1.016	-
156 PCB 196	OcCB 430 428	33.69 34.41	2124 1388	yes 0.98		0.002271		-0.00061	8 8	yes	0.777	-
157 PCB 203	OcCB 430 428	34.50 NotFnd	1412	yes	2800	0.001589		-0.00058	7	по	0.819	-
158 PCB 195	OcCB 430 428	34.70 NotFnd	*	no	Ī	-0.00058		-0.00058	*	no	0.825	
159 PCB 194	OcCB 430 428	36.15	*	no	•	~0.0006		-0.0006	:	no	0.931	-
160 PCB 205	OcCB 430	38.76 38.79	-1012 -1137.08	0.89 OK	-2149.08	-0.00104	PCB 194 NDR	-0.00058	3	хL	0.962	-
161 PCB 208	428 OcCB 430	NotFnd 39.34	*	no	•	-0.00056		-0.00056	6 *	no	0.992	_
	462 NoCB 464	NotFnd 35.85	*	no	*	-0.00083		-0.00083	*	по	1.042	
162 PCB 207	462 NoCB 464	NotFnd 36.89		⋆ no	•	-0.00067		-0.00067		no	1.302	_
163 PCB 206	462 NoCB 464	NotFnd 41.28	*	no .	•	-0.00085		-0.00085	*	no	1.017	
164 PCB 209	498 DCB 500	NotFnd 43.17	*	no	*	-0.00183		-0.00183	*	no	1.026	-
165 PCB 1L	200 202	8.81 8.82	4003 77 118313	3.38	518690	0.076891		0	* 3841	no		-
166 PCB 3L	200 202	9.99 9.99	521440	yes 3.12	688790	0.096938		0	177 5230		0.997	39
167 PCB 4L	234 236	10.11	167349 193795	yes 1.63	313072	0.099649		0	261	no	1.05	49
168 PCB 15L	234	10.10 12.70	119278 6614 01	yes 1.59	1077727	0.136406		0	751 1968	no	0.464	50
169 PCB 19L	236 268	12.69 11.48	416326 223202	yes 1.06	434119	0.119752			975 1574	no	1.168	69
170 PCB 37L	270 268	11.47 16.35	210917 518592	yes 1.02	1025507			0.001	269 493	no	0.536	60
171 PCB 54L	270 302	16.35 12.82	506915 175345	yes	396839			0.001	589 759	no	1.848	72
172 PCB 81L	304 302	12.82 20.99	221495 383945	yes	889021			0	1277 1333	no	0.802	65
173 PCB 77L	304 302	20.97 21.42	505076 390503	yes	893047			0	1498 1440	no	1.597	7 3
174 PCB 104L	304 338	21.42 15.62	502544 3015 75	yes				0	1521 1408	no	1.607	7 3
175 PCB 123L	340 338	15.65 23.05	190317 503285	yes	491892			0	8822 5852	no	0.912	81
176 PCB 118L	340 338	23.04 23.33	325015	yes		0.156895		0	1694 2399	no	1.581	79
177 PCB 114L	340 338	23.33	468155 2 95719	yes	763873 (0	1576	no	1.51	76
178 PCB 105L	340 338	23.80 23.80	436872 280575	yes		0.146041		0	2176 1460	no	1.471	7 3
179 PCB 126L	340	24.35 24.36	448699 290541	yes	739239 (0	2028 1455	no	1.488	75
180 PCB 155L	340	27.19 27.17	420876 267926	1.57 6 yes	88802 0	0.143177		0	2046 1289	no		72
	374	19.24 19.26	297916 243812		41728 0	.172142		0 1	1828 13064	no		87
181 PCB 167L	374	29.00			17612 0	.139237			8944 1187	no		7 0
182 PCB 156L/157L	374	30.17	689857		228562 0	.263898			1167			66
183 PCB 169L	372	33.55			38743 0.	.071652		_	1933			36
				,					596			50

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184 PCB 188L	406	23.78	301429	1.09	578569	0.162586						
	408	23.78	277141	yes	0,0000	0.102300		0	4076	по	1.142	82
185 PCB 180L	406	31.61	226863	1,04	444619	0.236336			6151			
	408	31.65	217756	ves	444015	0.230330		0.001	1163	yes	1.343	119
186 PCB 170L	406	32.90	189084	1.03	372716	0.233072			1176			
	408	32.97	183631	yes	3/2/10	0.233072		0.001	933	no	1.141	117
187 PCB 189L	406	36.35	251756	1.06	488259	0.181217			982			
	408	36.38	236503	yes	400200	0.101217		0.001	870	no	1.923	91
188 PCB 202L	440	28.77	248163	0.92	517355	0.272932			453			٠,
	442	28.82	269192	yes	017333	0.272932		0	3358	no	1.353	137
189 PCB 205L	440	39.30	162897	0.93	338731	0.16979			2880			10,
	442	39.28	175834	yes	950751	0.103/9		0.001	1284	no	1.424	85
190 PCB 208L	474	35.82	160961	0.8	362574	0.197644			937			00
	476	35.87	201613	yes	302374	0.13/044		0	1254	no	1.309	99
191 PCB 206L	474	41.28	102304	0.76	237299	0.402007			1723			00
	476	41.30	134995	yes	23/239	0.183397		0.001	774	по	0.924	92
192 PCB 209L	510	43.13	118612	1.26	212925	0.400.407			1066		0.02	U.
	512	43.16	94313	yes	212925	0.183467		0	2474	no	0.828	92
193 PCB 28L	268	14.13	770125	1.03	4540050				1565		0.020	92
PCB Cleanup Standa	rd 270	14.13	748734		1518859	0.20041		0.001	947	no	1.969	91
194 PCB 111L	338	21.42	594151	yes					1195	110	1.509	91
PCB Cleanup Standa		21.41	368383	1.61	962533	0.209924		0	4695	no	4 272	
195 PCB 178L	406	26.51		yes				•	2625	110	1.373	95
PCB Cleanup Standa	rd 408	26.52	262444	1.05	512983	0.224887		0	3376		. 700	
196 PCB 31L	268	NotFnd	250539	yes				•	5263	no	0.732	102
PCB Audit Standar		13.98		*	•			0.001	3203		4	
197 PCB 95L	338			no				0.001		no	1.878	
PCB Audit Standar		NotFnd		*	•			0				
198 PCB 153L		17.40		no				U		по	0.916	
PCB Audit Standar	372	NotFnd		*	*			0				
199 PCB 9L		24.98	*	no			•	U		no	1.173	
PCB Recovery Standar	234	10.99	4577681	1.58	7476703	18.46514						
200 PCB 52L		11.00	2899022	yes				-	7332	no	-	-
	302	15.07	1887069	0.8	4254508	18.89834			12057			
PCB Recovery Standard 201 PCB 101L		15.0 5	2367439	yes				-	9380	no	-	-
	338	19.40	2275460	1.61	3691454	18.05467			12727			
PCB Recovery Standard		19,36	1415994	yes		10.00107		-	18927	по	-	
202 PCB 138L	372	26.10	1926973	1.27	3442762	16 51781			10560			
PCB Recovery Standard		26.07	1515790	yes		10.01701		•	7795	no	-	4
203 PCB 194L	440	38.74	733731	0.9	1548646	8 250199			16837			
PCB Recovery Standard	442	38. 5 9	814915	yes	10-100-10	0.250100		-	5028	no	-	-
				,					3797			
Chlorobiphenyls						0.00073						
Dichlorobiphenyls						-0.00073	0					
Trichlorobiphenyis						0.020662	3	-0.00182				
Tetrachlorobiphenyls						0.139338	13	-0.00091				
Pentachloroblohenvis						0.589996	20					
Hexachlorobiphenyls						1.451374	21					
Heptachlorobiphenyls						2.743204	25	-0.00108				
Octachlorobiphenyls						0.79355	13					
Nonachlorobiphenyls						0.041424	5	-0.00061				
Decachlorobiphenyl						0.00085	0	-0.00085				
PCB (total)						0.00183	ō	-0.00183				
\					5	779548	•	5.55150				

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Acquired Date

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190.0363

6.095e+003

Dataset:

Printed:

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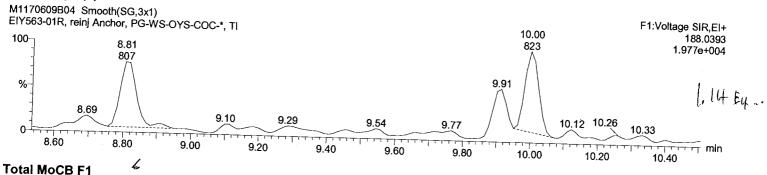
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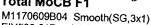
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Vial: 4

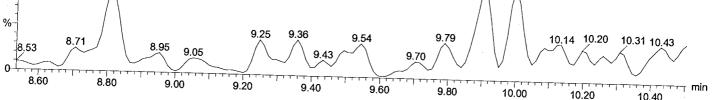
Date: 09-Jun-2017 Time: 21:11:38 Instrument:



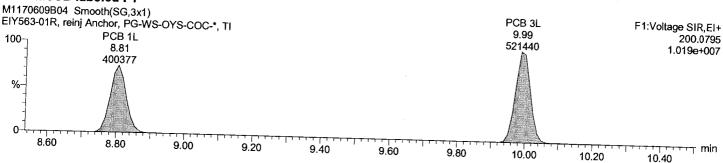




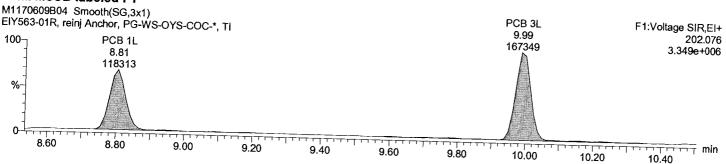




Total MoCB labeled F1



Total MoCB labeled F1



Quantify Sample Report Acquired Date Page 2 of 23 C:\MassLynx\Default.pro\M1170609B_partial_AH\M1170609B_dil_1668A.qld Dataset: Last Altered: Tuesday, June 13, 2017 4:31:23 PM Tuesday, June 13, 2017 4:32:14 PM Printed: Description: EIY563-01R, reinj Vial: 4 Date: 09-Jun-2017 Time: 21:11:38 Instrument: **Total DiCB F1** M1170609B04 Smooth(SG,3x1) EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI PCB 4 F1:Voltage SIR,EI+ 10.12 222.0003 100 1689 3.795e+004 % 8.92 8.74 9.09 10,21 9.489.54 9.80 10.37 8.80 9.00 9.20 min 9.40 9.60 9.80 10.00 10,20 10.40 **Total DiCB F1** M1170609B04 Smooth(SG,3x1) EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI PCB 4 F1:Voltage SIR,EI+ 10.11 223.9974 100-4.574e+004 1614 8.63 % 9.16 8.85 9.01 9.62 9.219.27 9.45 10.02 10.44 9.84 0 8.60 8.80 9.00 9.20 9.40 9.60 9.80 10.00 10.20 10.40 **Total DiCB labeled F1** M1170609B04 Smooth(SG,3x1) EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI PCB 4L F1:Voltage SIR,EI+ 10.11 234.0406 100 193795 3.966e+006 % 8.60 8.80 9.00 9.20 9.40 9.60 🗂 min 9.80 10.00 10.20 10.40 Total DiCB labeled F1 M1170609B04 Smooth(SG,3x1) EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI PCB 4L F1:Voltage SIR,EI+ 10.11 236.0376 100 119278 2.436e+006

8.60

%

8.80

9.00

9,20

9.40

9.60

9.80

10.00

10,20

min

10.40

Quantify Sample Report Acquired Date Page 3 of 23 C:\MassLynx\Default.pro\M1170609B_partial_AH\M1170609B_dil_1668A.qld Dataset: Last Altered: Tuesday, June 13, 2017 4:31:23 PM Printed: Tuesday, June 13, 2017 4:32:14 PM Description: EIY563-01R, reinj Vial: 4 Date: 09-Jun-2017 Time: 21:11:38 Instrument: **Total DiCB F2** M1170609B04 EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI **PCB 11** F2:Voltage SIR,EI+ 12.41 100 222.0003 42205 1.243e+006 PCB 8 4 % 11.36 PCB 6 PCB 15 11341 12.70 11.18 8944 2332 10.80 11.00 11.20 11.40 📺 min 11.60 11.80 12.00 12.20 12.40 12.60 12.80 13.00 **Total DiCB F2** M1170609B04 EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI PCB 11 F2:Voltage SIR,EI+ 12.41 223.9974 26849 7.651e+005 PCB 8 % 11.36 PCB₆ PCB 15 7995 11.18 12.70 10.55 12.27 2364 6135 0 1710 10.60 10.80 11.00 11.20 11.40 11.60 🦳 min 11.80 12.00 12.20 12.40 12.60 12.80 13.00 Total DiCB labeled F2 M1170609B04 Smooth(SG,3x1) EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI F2:Voltage SIR,EI+ PCB_{9L} 100 234.0406 10.99 6.465e+007 4577681 PCB 15L 12.70 661401 10.60 10.80 11.00 11.20 11.40 11.60 11.80 12.00 12,20 12,40 12.60 12.80 13.00 Total DiCB labeled F2 M1170609B04 Smooth(SG,3x1) EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI F2:Voltage SIR,EI+ PCB 9L 236.0376 100 10.99 4.115e+007 2899022 % PCB 15L 12.70

¬¬ min

13.00

416326

12.80

12.60

11.00

11.20

11.40

11.60

11.80

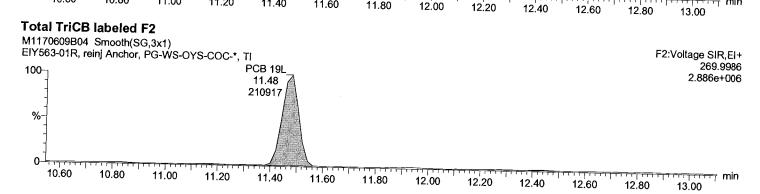
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12.40

10.80

Quantify Sample Report Page 4 of 23 **Acquired Date** C:\MassLynx\Default.pro\M1170609B_partial_AH\M1170609B_dil_1668A.qld Dataset: Last Altered: Tuesday, June 13, 2017 4:31:23 PM Printed: Tuesday, June 13, 2017 4:32:14 PM Description: EIY563-01R, reinj Vial: 4 Date: 09-Jun-2017 Time: 21:11:38 Instrument: **Total TriCB F2** M1170609B04 PCB 30/18 EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI F2:Voltage SIR,EI+ 12.27 255.9614 100 25598 8.111e+005 PCB 32 **PCB 17** 12.90 % 12.46 PCB 16 13182 **PCB 19** 9514 12.68 11.48 7177 1678 10.60 10.80 11.00 11.20 🕂 min 11.40 11.60 11.80 12.00 12.20 12.40 12.60 12.80 13.00 **Total TriCB F2** M1170609B04 PCB 30/18 EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI F2:Voltage SIR,EI+ 257,9584 7.096e+005 12.27 22502 PCB 32 12.90 PCB 17 % 13400 12.46 **PCB 16 PCB 19** 8757 12.68 11.48 5968 1674 10.60 10.80 11.00 11.20 11.40 11.60 11.80 12.00 12.20 12.40 12.60 12.80 13.00 **Total TriCB labeled F2** M1170609B04 Smooth(SG,3x1) EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI F2:Voltage SIR,EI+ 268.0016 PCB 19L 100 3.106e+006 11.48 223202 % 10.60 10.80 11.00 11.20 📺 min 11.40 11.60 11.80



Acquired Date

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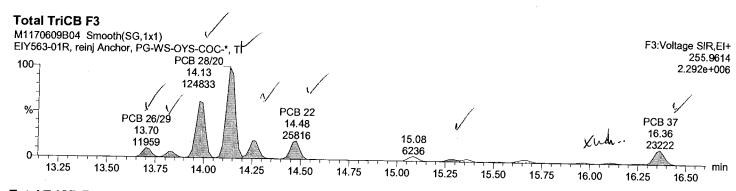
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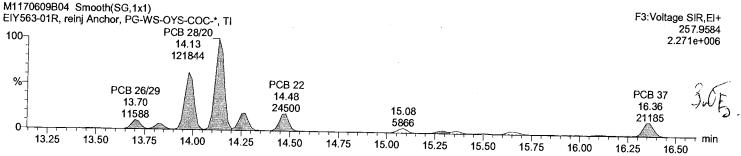
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Vial: 4

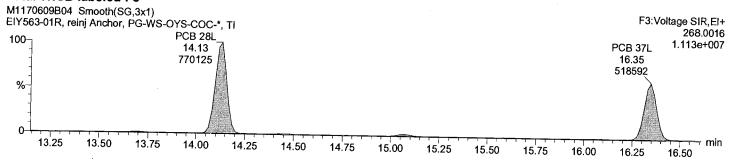
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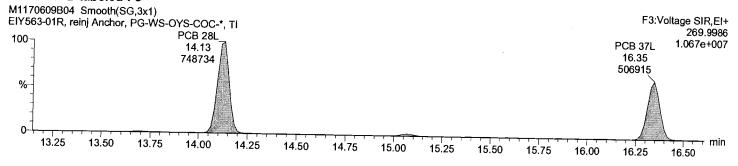




Total TriCB labeled F3



Total TriCB labeled F3



Acquired Date

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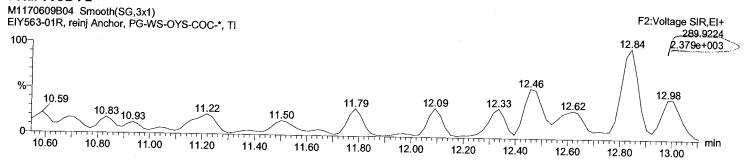
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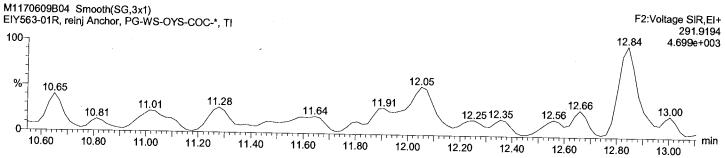
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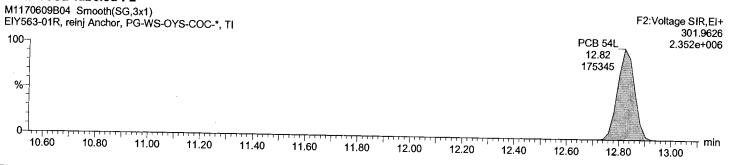
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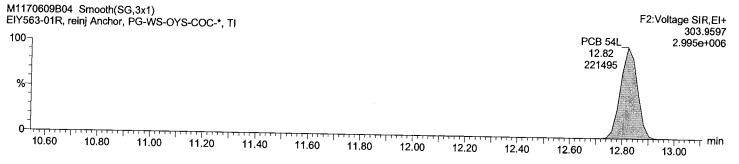
Total TeCB F2



Total TeCB labeled F2



Total TeCB labeled F2



Acquired Date

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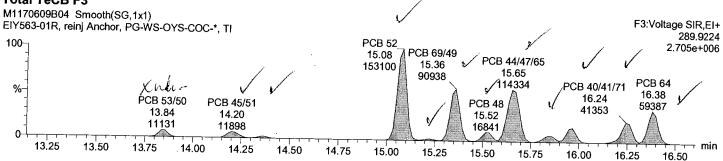
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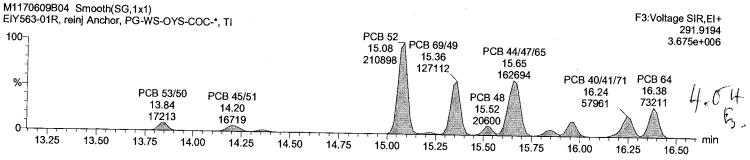
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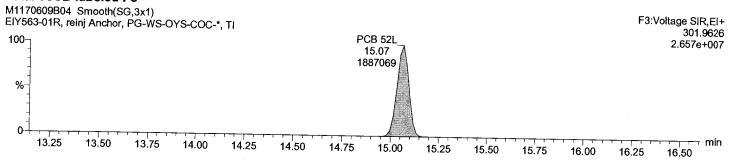
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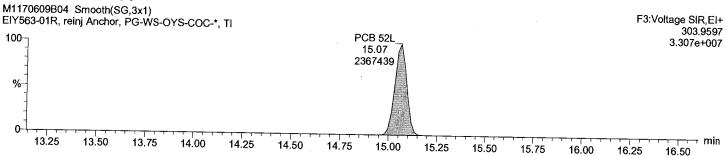
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Total TeCB labeled F3



Total TeCB labeled F3



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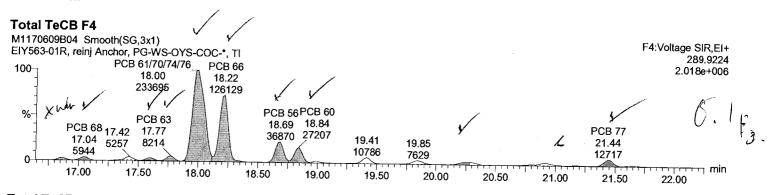
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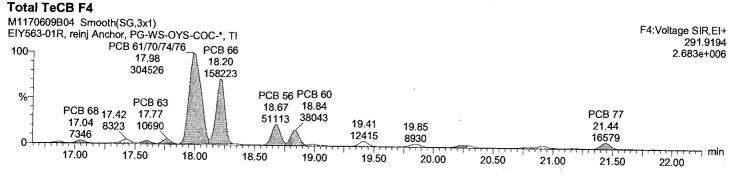
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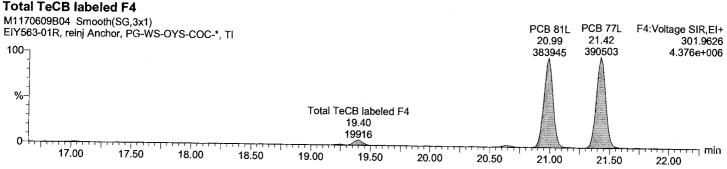
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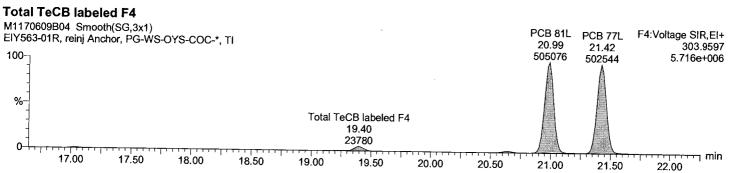
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Vial: 4









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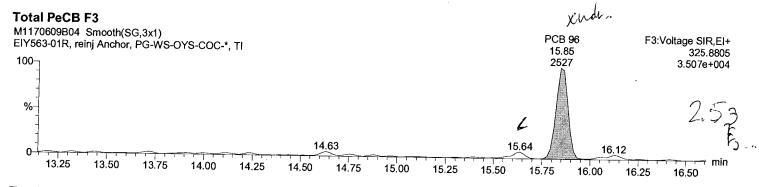
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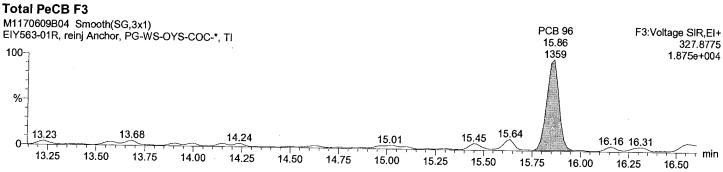
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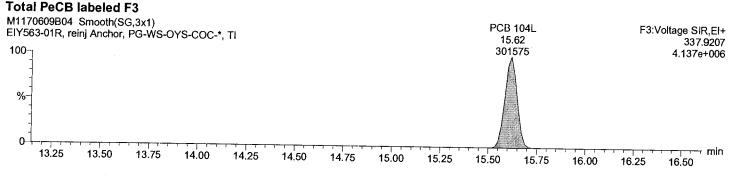
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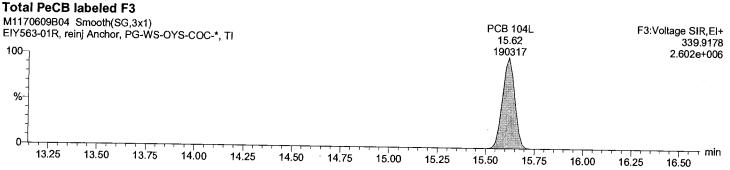
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Vial: 4









Acquired Date

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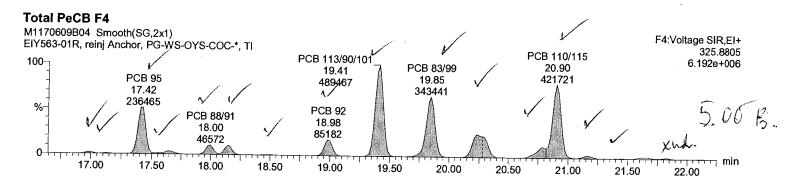
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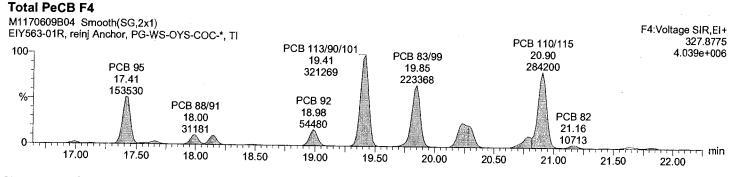
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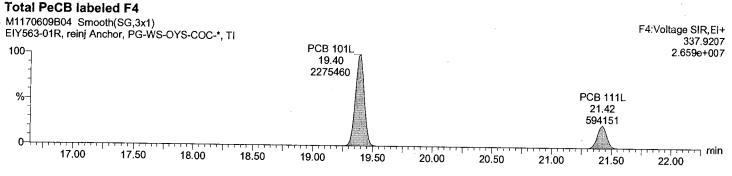
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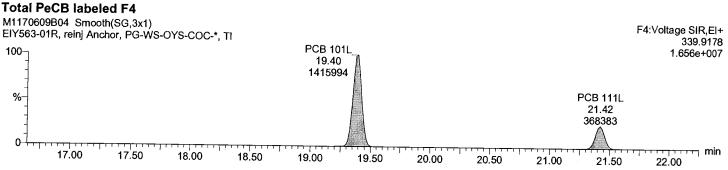
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Vial: 4









Acquired Date

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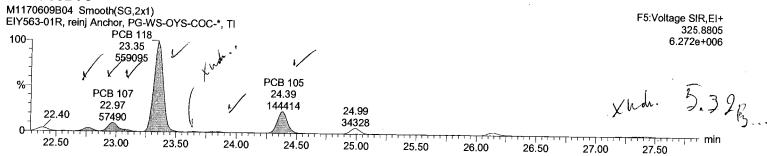
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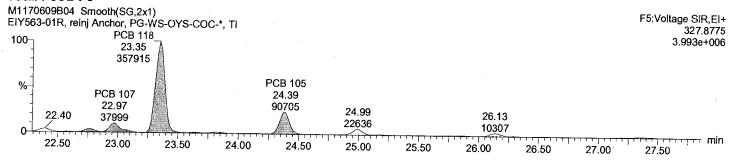
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Date: 09-Jun-2017 Time: 21:11:38 Instrument:

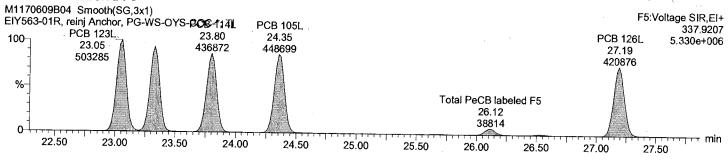
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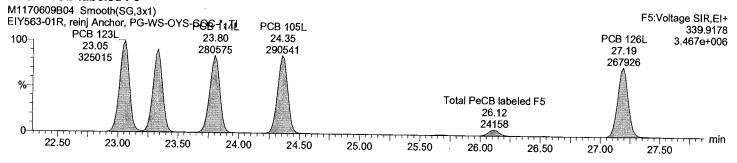
Total PeCB F5



Total PeCB labeled F5



Total PeCB labeled F5



Quantify Sample Report Acquired Date

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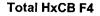
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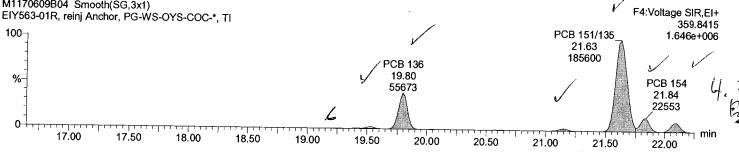
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Vial: 4

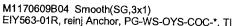
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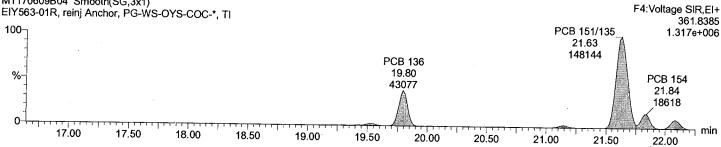


M1170609B04 Smooth(SG,3x1)



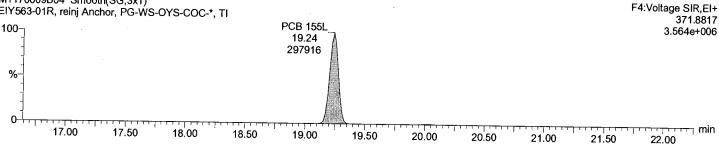
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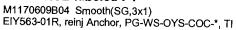


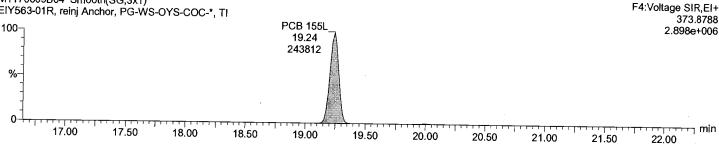
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M1170609B04 Smooth(SG,3x1) EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI

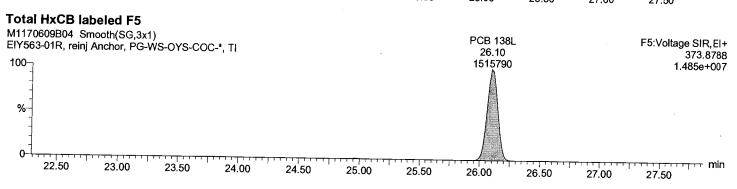


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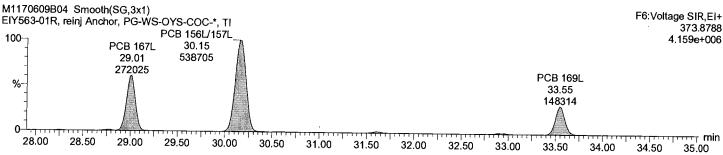




Quantify Sample Report Page 13 of 23 **Acquired Date** C:\MassLynx\Default.pro\M1170609B_partial_AH\M1170609B_dil_1668A.qld Dataset: Last Altered: Tuesday, June 13, 2017 4:31:23 PM Printed: Tuesday, June 13, 2017 4:32:14 PM Description: EIY563-01R, reinj Vial: 4 Date: 09-Jun-2017 Time: 21:11:38 Instrument: **Total HxCB F5** M1170609B04 Smooth(SG,1x1) EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI F5:Voltage SIR,EI+ 359.8415 PCB 153/168 100 1.649e+007 24.99 PCB 147/149 1451291 22.38 PCB 138/163/129 557,173 26.13 664863 % PCB 146 ^火PCB 132 23.45 24.44 PCB 128/166 177491 121938 27.33 62964 ⊤, min 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50 **Total HxCB F5** M1170609B04 Smooth(SG,1x1) F5:Voltage SIR,EI+ EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI 361.8385 1.290e+007 PCB 153/168 100 24.99 PCB 147/149 1145330 22.38 PCB 138/163/129 425490 26.13 % 528015 PCB 146 PCB 132 23.45 24.44 137623 103190 0-22.50 23,00 23.50 24.00 24.50 25.00 25,50 26.00 26.50 27.00 27.50 Total HxCB labeled F5 M1170609B04 Smooth(SG,3x1) PCB 138L F5:Voltage SIR,EI+ EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI 26.10 371.8817 100-1926973 1.885e+007 % 22.50 23.00 - min 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50



Quantify Sample Report Page 14 of 23 **Acquired Date** C:\MassLynx\Default.pro\M1170609B_partial_AH\M1170609B_dil_1668A.qld Dataset: Last Altered: Tuesday, June 13, 2017 4:31:23 PM Printed: Tuesday, June 13, 2017 4:32:14 PM Description: EIY563-01R, reinj Vial: 4 Date: 09-Jun-2017 Time: 21:11:38 Instrument: **Total HxCB F6** M1170609B04 Smooth(SG,3x1) F6:Voltage SIR,EI+ EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI 359.8415 PCB 167 100 3.487e+005 29.03 PCB 156/157 36723 30.17 26492 % 28.67 28.01 6711 29.29 31.63 4 3862 1442 🔻 min 28.00 28.50 29.00 29.50 30.00 30.50 31.00 31.50 32.00 32.50 34.00 33.00 33.50 34.50 35.00 **Total HxCB F6** M1170609B04 Smooth(SG,3x1) F6:Voltage SIR,EI+ EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI 361.8385 PCB 167 100 2.856e+005 29.03 PCB 156/157 30248 30.17 21596 % 28.67 28.01 31.63 6411 29.31 2962 1613 min 28.00 29.00 28.50 29.50 30.00 30.50 31.00 31.50 32.00 32.50 33.00 33.50 34.00 34,50 35.00 Total HxCB labeled F6 M1170609B04 Smooth(SG,3x1) F6:Voltage SIR,EI+ EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI 371.8817 PCB 156L/157L 100 5.269e+006 **PCB 167L** 30.17 29.01 689857 345587 **PCB 169L** % 33.55 190429 ⊤⊤ min 28.00 28.50 29.00 29.50 30.00 30.50 31.00 31.50 32.00 32.50 33.00 33.50 34.00 34.50 35.00 Total HxCB labeled F6 M1170609B04 Smooth(SG,3x1) F6:Voltage SIR,EI+ 373.8788



Acquired Date

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Dataset:

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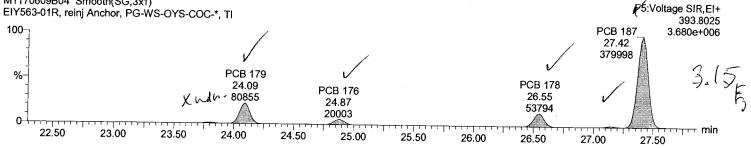
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Vial: 4

Date: 09-Jun-2017 Time: 21:11:38 Instrument:

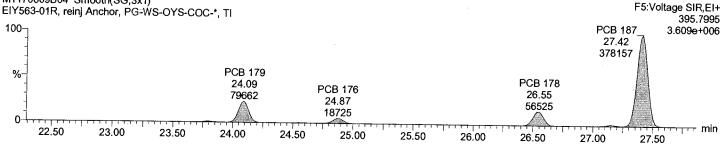


M1170609B04 Smooth(SG,3x1)



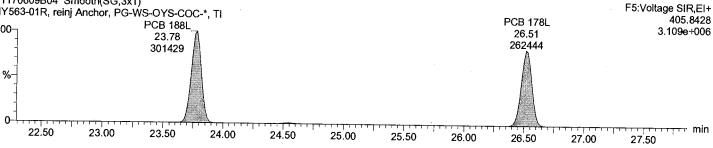
Total HpCB F5

M1170609B04 Smooth(SG,3x1)



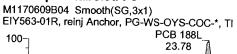
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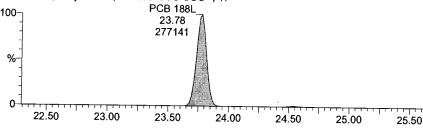
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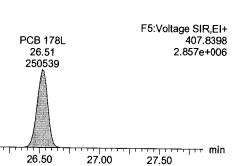


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Total HpCB labeled F5







Acquired Date

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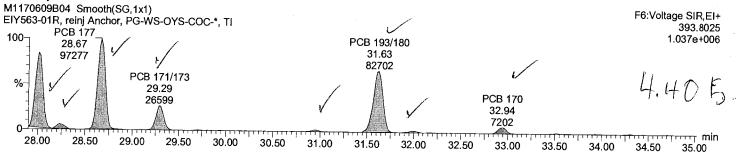
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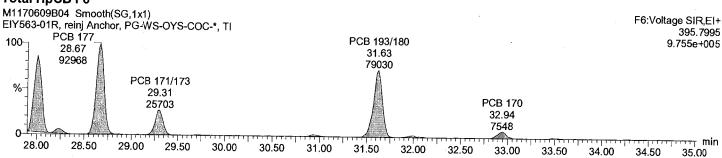
Vial: 4

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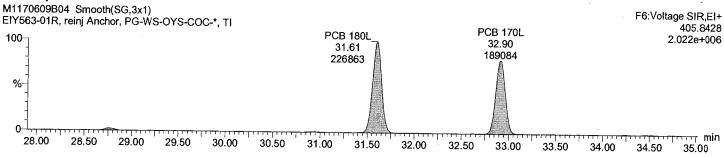




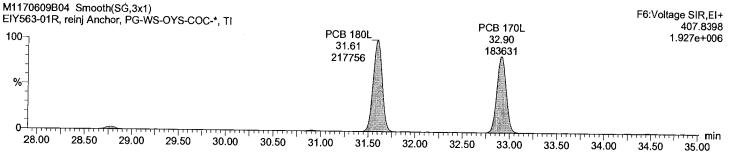
Total HpCB F6



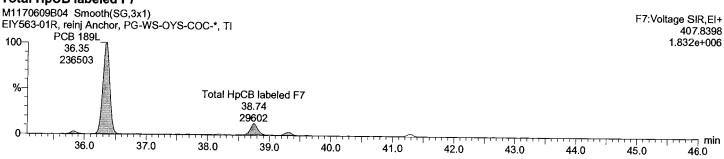
Total HpCB labeled F6



Total HpCB labeled F6



Quantify Sample Report Page 17 of 23 **Acquired Date** Dataset: C:\MassLynx\Default.pro\M1170609B_partial_AH\M1170609B_dil_1668A.qld Last Altered: Tuesday, June 13, 2017 4:31:23 PM Tuesday, June 13, 2017 4:32:14 PM Printed: Description: EIY563-01R, reinj Vial: 4 Date: 09-Jun-2017 Time: 21:11:38 Instrument: Total HpCB F7 M1170609B04 Smooth(SG,3x1) F7:Voltage SIR,EI+ EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI 393.8025 PCB 189 100 6.222e+003 36.35 854 36.11 % 43.15 43.89 44.22 40.34 41.10 35.48 45.05_45.21 45.83 37,18 37.65 38,20 38,65 41.59 42.42 39,48 39,99 nin 🗆 36.0 37.0 38.0 39.0 40.0 41.0 42.0 43.0 44.0 45.0 46.0 **Total HpCB F7** M1170609B04 Smooth(SG,3x1) F7:Voltage SIR,EI+ EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI 395.7995 PCB 189 100 5.482e+003 36.35 515 % 45.38 41.75 42.22 43.00 43.85 44.00 45.76 37.62 38.09 38.41 39,32 39,88 35.95 36.80 40,41 44.13 0 min 36.0 37.0 38.0 39.0 40.0 41.0 42.0 43.0 44.0 45.0 46.0 Total HpCB labeled F7 M1170609B04 Smooth(SG,3x1) F7:Voltage SIR,EI+ EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI 405.8428 PCB 189L 100 1.967e+006 36.35 251756 % Total HpCB labeled F7 38.76 39079 41.28 8830 0 → min 36.0 37.0 38.0 39.0 40.0 41.0 42.0 43.0 44.0 45.0 46.0 Total HpCB labeled F7 F7:Voltage SIR,EI+



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_partial_AH\M1170609B_dil_1668A.qld

Last Altered:

Tuesday, June 13, 2017 4:31:23 PM

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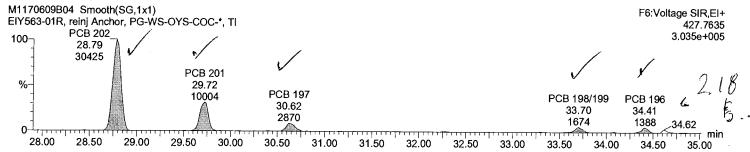
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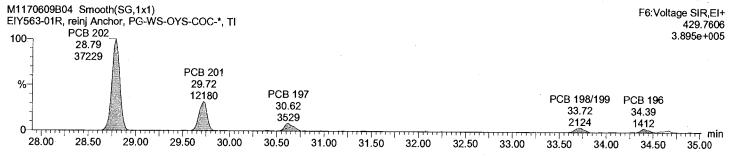
Vial: 4

Date: 09-Jun-2017 Time: 21:11:38 Instrument:

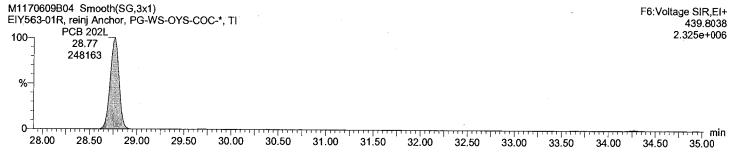
Total OccB F6



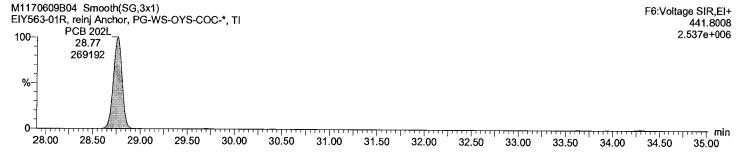
Total OccB F6



Total OcCB labeled F6



Total OccB labeled F6



Acquired Date

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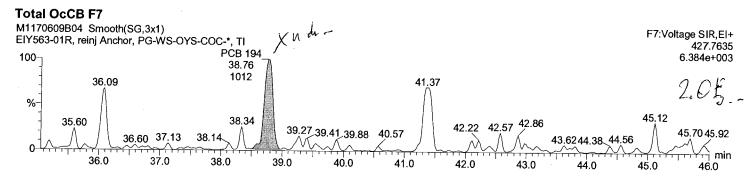
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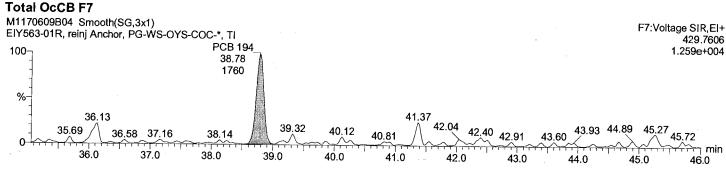
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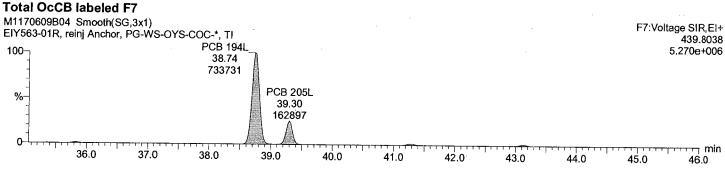
Tuesday, June 13, 2017 4:31:23 PM Tuesday, June 13, 2017 4:32:14 PM

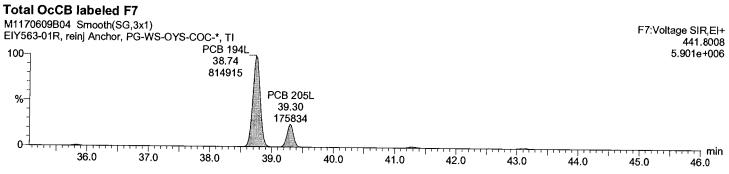
Description: EIY563-01R, reinj

Vial: 4









Acquired Date

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Dataset:

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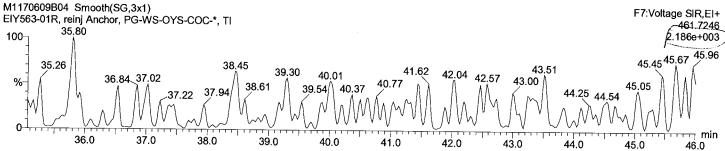
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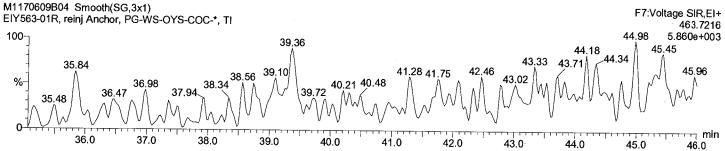
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Date: 09-Jun-2017 Time: 21:11:38 Instrument:

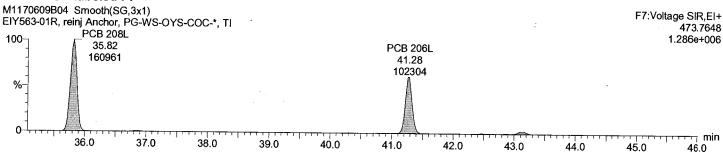




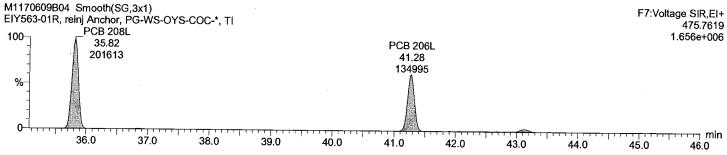
Total NoCB F7



Total NoCB labeled F7



Total NoCB labeled F7



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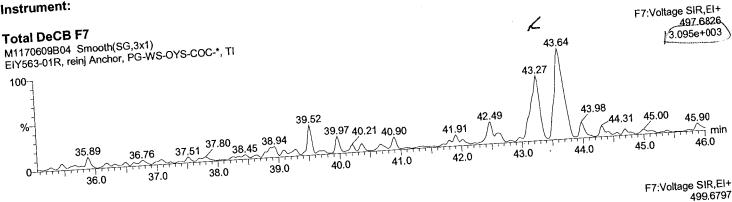
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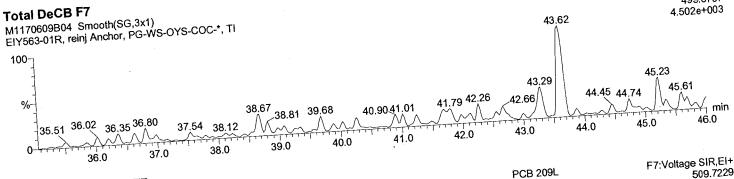
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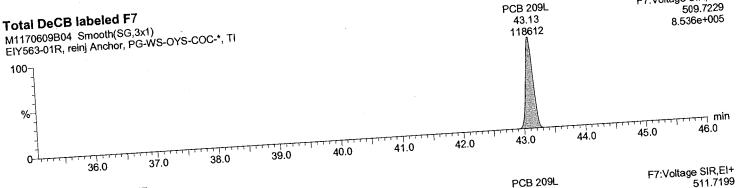
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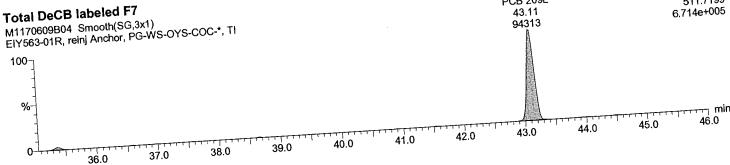


EIY563-01R, reinj Anchor, PG-WS-OYS-COC-*, TI



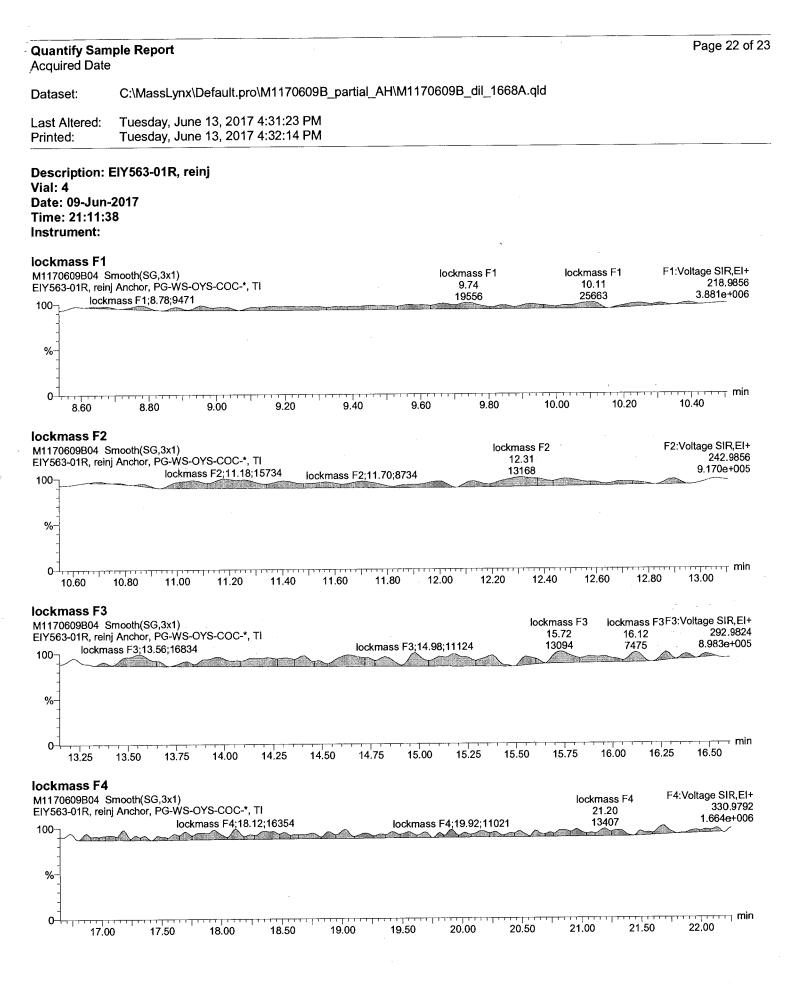






AutoSpec Ultima - M2

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Acquired Date

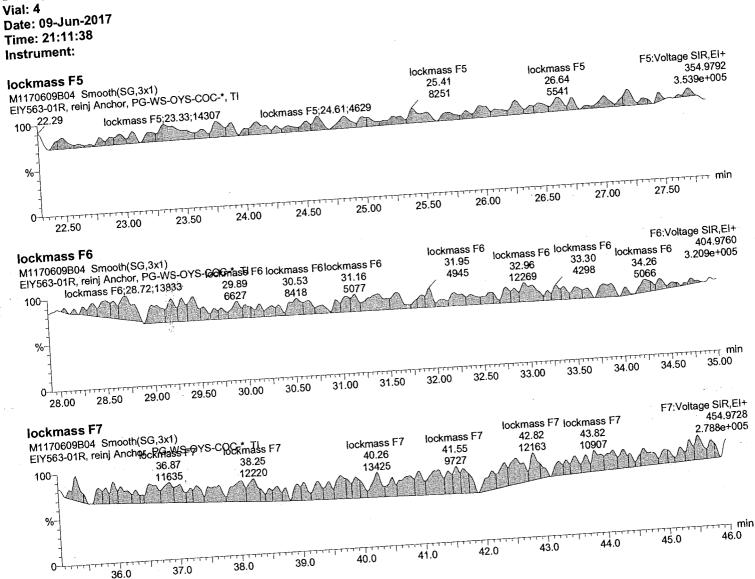
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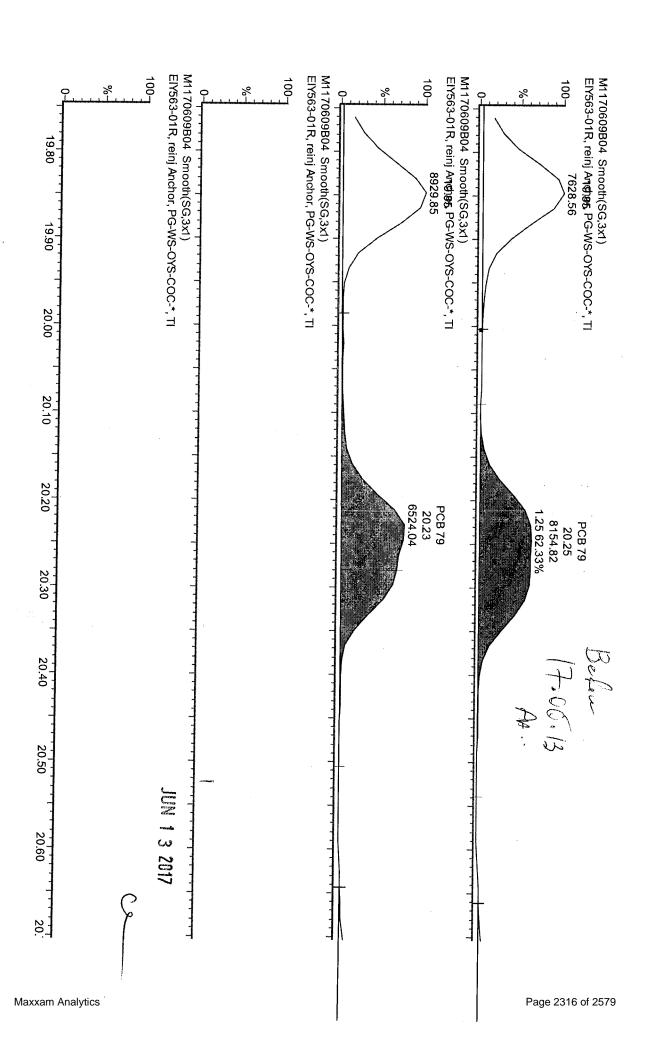
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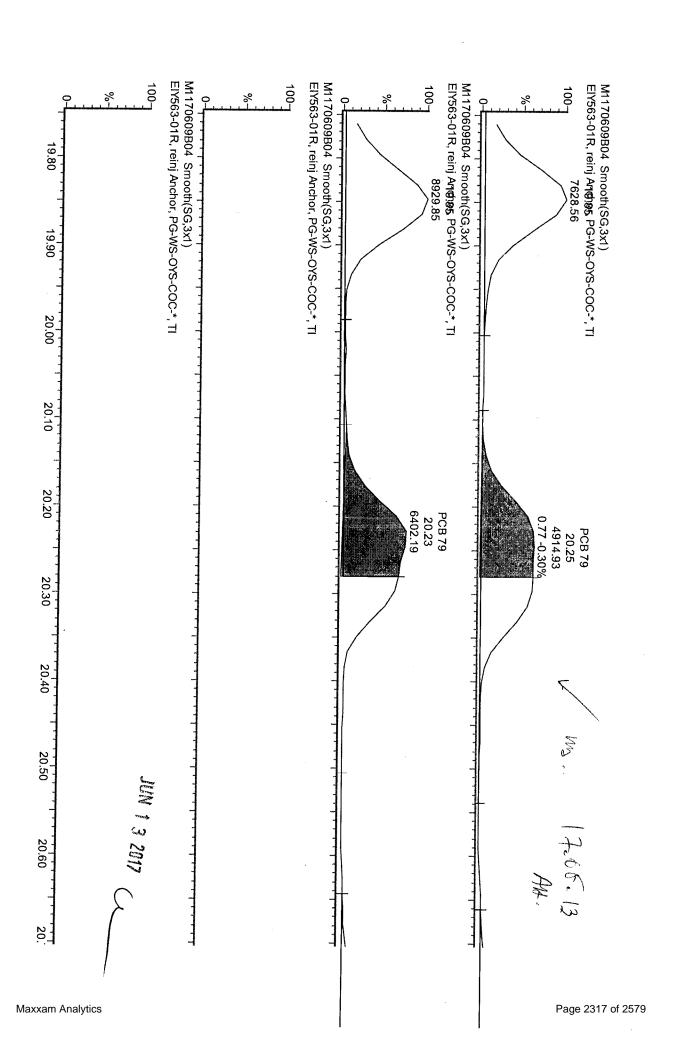
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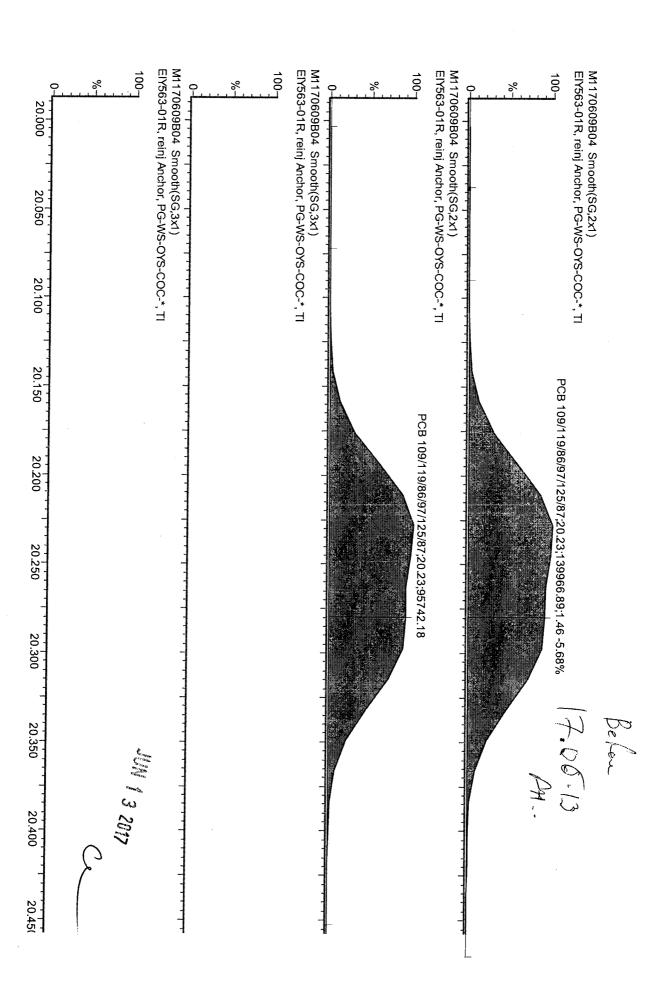
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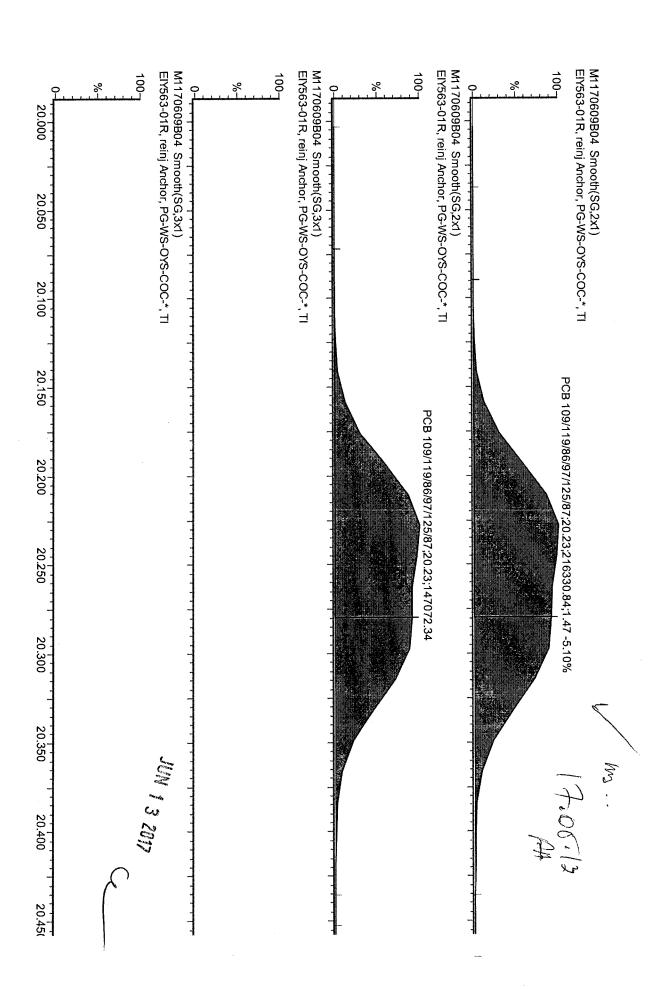
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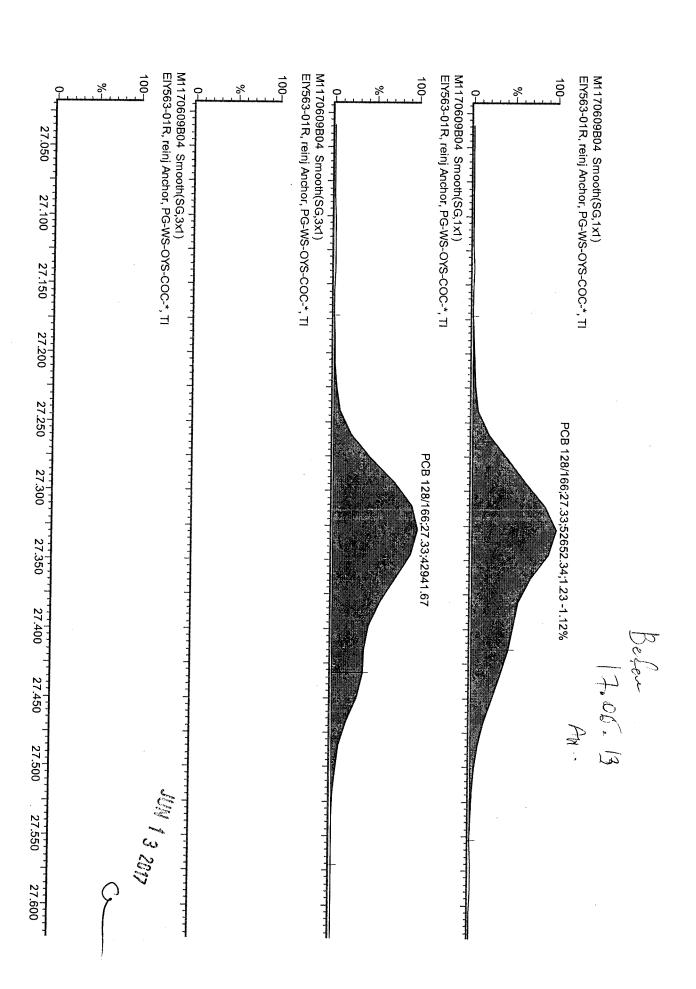


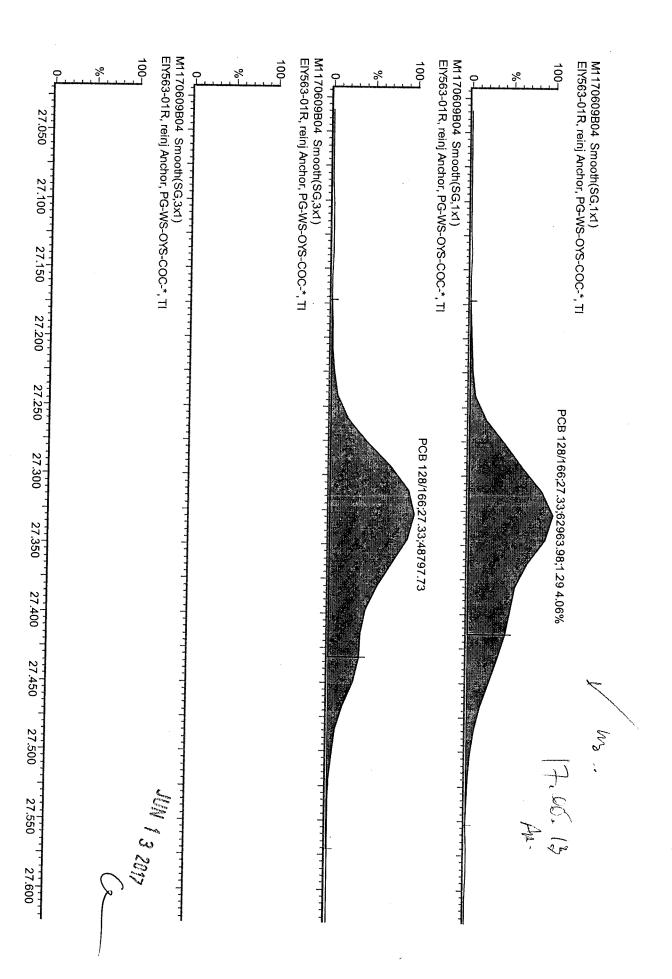


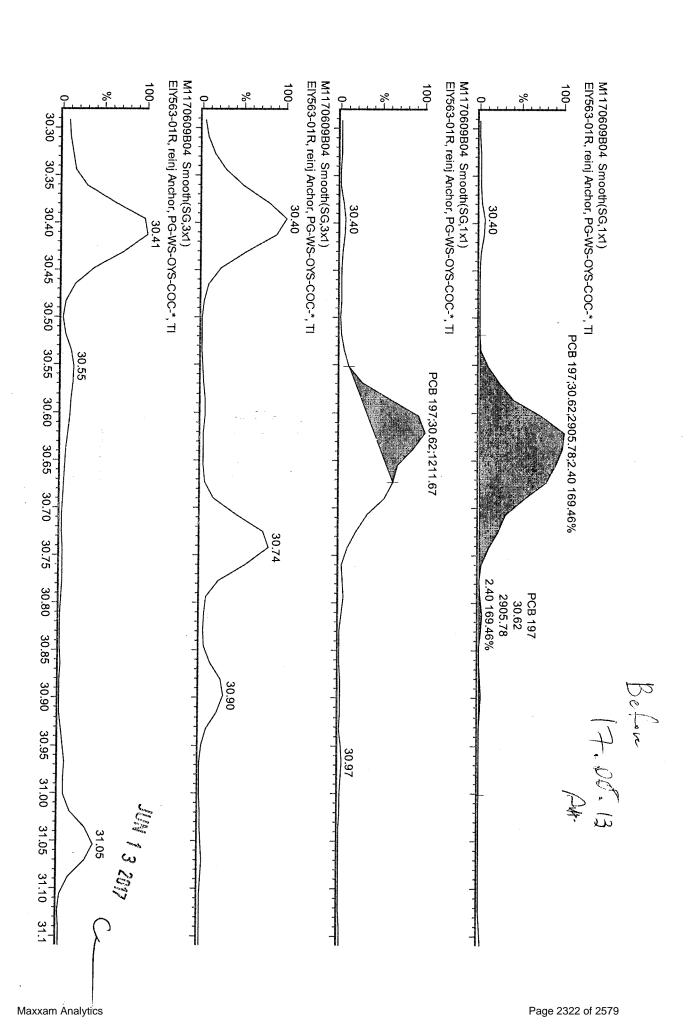


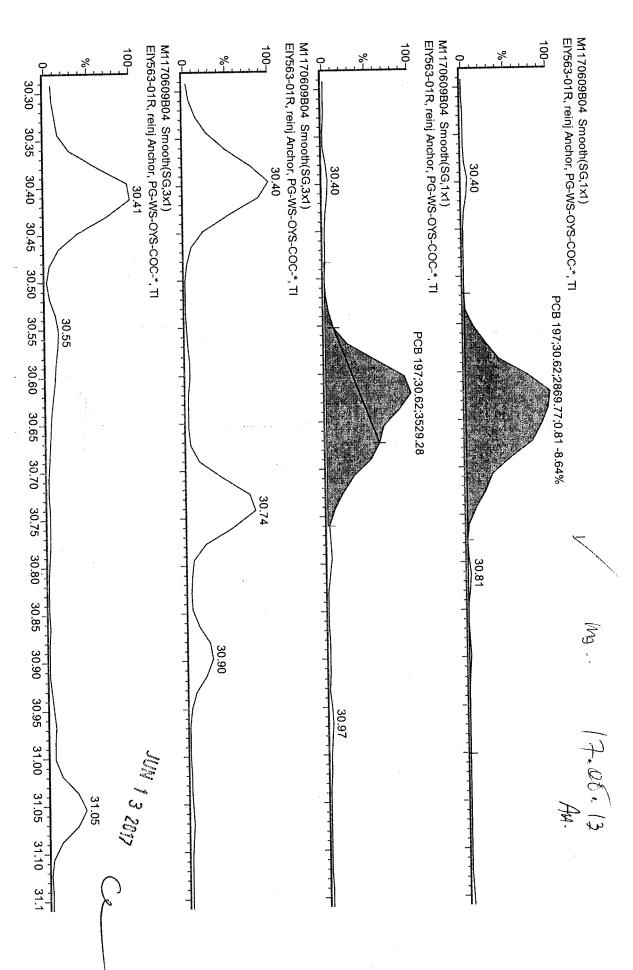












Filename M1170609B05 Acquired 06/09/2017 22:01

Call File PCB209_M1170609B

Sample ID ElY560-01R, 5x Comments Instrument File Ultima 1 Sample Size 10.074

Dil Fac 1.00

								Isomers					
Name: 1 PCB 1	mass 188	RT NotFnd	Area •	ratio	Tot Area	ng/g	Code	isomers	DL 0.001	S/N	Mod no	rrf 1.053	Rec
2 PCB 2	MoCB 190 188	8.83 NotFnd	:	no *					0		no	1.198	_
3 PCB 3	MoCB 190 188	9.92 NotFnd	•	no *					0.001		no	1.055	_
4 PCB 4	MoCB 190 222	10.01 NotFnd		no *	*				0.005				
5 PCB 10	DiCB 224 222	10.12	:	no							по	1.191	-
	DICB 224	NotFnd 10.21	•	по	•				0.003		no	1.156	-
6 PCB 9	222 DICB 224	NotFnd 11.01	:	no	•				0.009		no	1.544	-
7 PCB 7	222 DICB 224	NotFnd 11.09	*	* no	*				0.009		no	1.399	-
8 PCB 6	222 DICB 224	NotFnd 11.19	:	*	•				0.009		no	1.424	-
9 PCB 5	222	NotFnd	•	no *	*				0.009		no	1.462	-
10 PCB 8	DICB 224 222	11.31 NotFnd	*	no *					0.009		no	1.443	_
11 PCB 14	DICB 224 222	11.38 NotFnd	*	no *					0.009				
12 PCB 11	DICB 224 222	12.05 NotFnd	*	no							no	1.506	-
	DiCB 224	12.42	•	no					0.009		по	1.42	-
13 PCB 13/12	222 DICB 224	NotFnd 12.56	:	no	*				0.009		no	1.443	-
14 PCB 15	222 DiCB 224	NotFnd 12.70		* no	*				0.011		no	0.956	-
15 PCB 19	256 TriCB 258	NotFnd 11.48	:	*	•				0.004		no	1.06	-
16 PCB 30/18	256	12.27	1481	no 0.94	3064	0.007299			0.002	24	no	1.033	-
17 PCB 17	TriCB 258 256	12.27 NotFnd	1583	yes *					0.002	28	no	0.838	_
18 PCB 27	TrlCB 258 256	12.48 NotFnd	:	no *	*				0.002		no	1.164	
19 PCB 24	TriCB 258 256	12.56 NotFnd	*	no *	*								
20 PCB 16	TriCB 258 256	12.61	*	no					0.001		no	1.35	-
	TriCB 258	NotFnd 12.69	•	no	·				0.003		по	0.606	-
21 PCB 32	256 TrlCB 258	NotFnd 12.90		no	•				0.001		no	1.334	-
22 PCB 34	256 TriCB 258	NotFnd 13.48	*	* no	*				0.001		no	1.427	-
23 PCB 23	256 TriCB 258	NotFnd 13.56		*	•				0.001		no	1.32	-
24 PCB 26/29	256	NotFnd	*	no *	*				0.001		no	1.443	-
25 PCB 25	TriCB 258 256	13.72 NotFnd	:	по *					0.001		по	1.389	_
26 PCB 31	TriCB 258 256	13.85 13.98	* 5106	по 0.94	10513	0.016947			0.001	59	no	1.527	_
27 PCB 28/20	TriCB 258 256	14.01 14.13	5407 8646	yes 1.08	16638	0.028417			0.001	77 103			
28 PCB 21/33	TriCB 258 256	14.16	7992	yes						104	no	1.441	-
	TriCB 258	14.25 14.27	2022 1289	1.57 no	3311	0.005858			0.001	23 16	no	1.391	-
29 PCB 22	25 6 TrlCB 258	14.46 14.47	2083 1711	1.22 no	3794	0.00688			0.001	23 24	no	1.357	-
30 PCB 36	256 TriCB 258	NotFnd 15.30		no	*				0.001		· no	1.632	-
31 PCB 39	256 TriCB 258	NotFnd 15.50	*	no	*				0.001		по	1.448	-
32 PCB 38	256 TriCB 258	NotFnd	*	*	*				0.001		no	1.474	-
33 PCB 35	256	15.87 NotFnd	•	no *					0.001		no	1.4	
34 PCB 37	TriCB 258 256	16.10 1 6.36	1593	no 1.1	3036	0.005064			0.001	18	no	0.951	
35 PCB 54	TriCB 258 290	16.36 NotFnd	1443	yes *					0.001	17	по	1.071	
36 PCB 53/50	TCB 292 290	12.82 1 3.85	* 1095	по 0.72	2640	0.000400							-
	TCB 292	13.86	1524	0.72 yes	2619	0.006163			0.002	21 15	no	0.861	-
37 PCB 45/51	290 TCB 292	14.20 14.21	1169 1375	0.85 yes	2543	0.006192			0.002	20 10	no	0.832	-
38 PCB 46	290 TCB 292	NotFnd 14.35	*	no	*		*		0.002		по	0.718	-
39 PCB 52	290 TCB 292	15.0 7 15.05	15072 19688	0.77 yes	34760	0.073292			0.001	284	no	0.961	-
40 PCB 73	290 TCB 292	NotFnd 15.14	*	*	•				0.001	174	по	1.012	-
41 PCB 43	290	NotFnd	*	no *	•				0.002		no	0.787	-
42 PCB 69/49	TCB 292 290	15.21 15.36	8060	no 0.74	18927	0.040237			0.001	150	по	0.953	-
	TCB 292	15.34	10867	yes						100			

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4	3 PC	B 48		290	15.52	1196	0.83	2641	0.006309	0.002	25	no	0.848	-
	4 50	D 44/47/05	TCB	292	15.50	1444	yes				16			
4	4 PU	B 44/47/65	TOR	290 292	15.65 15.64	10390 15833	0.66 yes	26223	0.057955	0.002	160 110	no	0.917	-
4	5 PCI	B 59/62/75	100	290	15.85	1132	0.71	2732	0.004941	0.001	18	no	1.12	_
			TCB	292	15.84	1599	yes			0.001	13			
4	6 PC	B 42		290	15.95	2568	0.96	5250	0.014601	0.002	47	no	0.728	-
۸.	7 001	B 40/41/71	TCB	292 290	15.94 16.24	2682 4540	no no	40005	0.024059	0.000	24		0.05	
4	, -01	5 40/4 /// 1	TCB	292	16.23	5555	0.82 yes	10095	0.024059	0.002	72 45	no	0.85	-
4	B PC	B 64		290	16,38	5580	0.82	12352	0.023193	0.001	106	no	1.079	_
			TCB	292	16.37	6772	yes				55			
49	9 PCE	3 72	TCB	290 292	NotFnd 16.90	:	*	•		0.001		no	1.426	-
50	PCE	3 68	100	290	NotFnd	*	no *	*		0.001		no	1.39	_
			TCB	292	17.08	*	no			0.001			1100	
51	1 PCE	3 57		290	NotFnd	*	•	*		0.001		no	1.359	-
5.0	2 PCE	5.50	TCB	292 290	17.36	:	no *			0.004			4 000	
02	2 FGE	3 00	TCB	292	NotFnd 17.50		no			0.001		no	1.206	-
53	PCE	3 67		290	NotFnd	*	*			0.001		no	1.485	_
_			TCB	292	17.59	*	no							
54	PCE	3 63	TOD	290 292	NotFnd	:	*	•		0.001		· no	1.419	-
55	S PCE	3 61/70/74/76		292	17.76 17. 98	22780	no 0.77	52424	0.080565	0.001	205	no	1.318	
-				292	18.01	29644	yes	02.2.	0.00000	0.001	121	110	1.010	
56	PCE	3 66		290	18.20	10552	0.78	24041	0.035177	0.001	124	no	1.384	-
57	PCE) EE	TCB	292 290	18.24	13490	yes *			0.004	72		4.040	
. 51	FUE	5 00	тсв		NotFnd 18.36		no			0.001		по	1.248	-
58	PCE	3 56		290	18.69	3961	0.91	8314	0.013097	0.001	42	no	1.286	-
			TCB		18.70	4353	no				24			
59	PCE	s 60	тсв	290	18.84	2044	0.81	4567	0.007245	0.001	25	no	1.277	-
60	PCE	80	ICB	292	18.87 NotFnd	2523	yes *	*		0.001	14	no	1.5	_
			TCB		19.10	*	no			0.001		. 110	1.0	
61	PCB	79		290	NotFnd	*	*	*		0.001		no	1.544	-
62	PCB	. 79	TCB	292 290	20.23 NotFnd	:	no *			0.004			4.004	
02	FUB	10	тсв		20.67	*	no			0.001		no	1.394	-
63	PCB	81		290	NotFnd	*	*	•		0.001		no	1.02	-
			TCB		21.01	*	no							
64	PCB	3 77	тсв	290	21.44 21.44	1218	0.69	2987	0.004475	0.001	13	no	1.016	-
65	PCB	104		326	NotFnd	1769 *	yes *	*		0	9	no	1.194	_
			PeCB		15.64	•	no			Ū		110	1.104	_
66	PCB	96		326	NotFnd	*	*	*		0		no	0.819	-
67	000	400	PeCB		15.85	:	no							
01	PCB	103	PeCB	326 328	NotFnd 16.98	•	по	-		0.001		no	0.834	-
68	PCB	94		326	NotFnd	*	*	•		0.002		no	0.668	
			PeCB	328	17.12	*	no						•	
69	PÇB	95		326	17.41	25923	1.59	42263	0.100838	0.001	346	no	0.789	•
70	PCB	100/93/102/9	PeCB	326	17.40 17.65	16340 2036	yes 1.29	3614	0.009409	0.001	217 23		0.724	
		100,00,102,	PeCB		17.54	1578	no	3014	0.003403	0.001	13	no	0.724	•
71	PCB	88/91		326	NotFnd	*	*	*		0.001		no	0.739	-
70	DOD	0.4	PeCB		17.95	*	no							
12	PCB	84	PeCB	326	NotFnd 18.12	· 🗼	no	•		0.002		no	0.66	-
73	РСВ	89		326	NotFnd	•	*	*		0.001		no	0.717	_
			PeCB	328	18.45	•	no							
74	PCB	121		326	NotFnd	*		•		0.001		no	0.972	-
75	PCB	92	PeCB	328 326	18.70 18.98	8333	no 1.38	14361	0.036065	0.001	111	no	0.75	_
			PeCB		18.96	6028	yes	,		0.001	78	110	0.10	-
76	РÇВ	113/90/101		326	19.41	51727	1.5	86159	0.189704	0.001	668	no	0.856	-
77	PCP	83/99	PeCB	328 326	19.38 19.85	34432 35568	yes	50070	0.145400	0.004	407		0.705	
''	- 00	03/03	PeCB		1 9.85 19.84	35568 23511	1.51 yes	59078	0.145406	0.001	450 252	no	0.765	-
78	PCB	112		326	NotFnd	*	*	•		0.001	202	no	0.907	-
~~	200	40014401000	PeCB		19.92	*	no							
79	PCB	109/119/86/9	7/125/ PeCB		20.23	15649	1.42	26699	0.05753	0.001	177	no	0.874	-
80	PCB	117/116/85		328 326	20.21 20.71	11050 1339	yes 1.01	2670	0.005518	0.001	115 34	no	0.912	-
			PeCB		20.76	1331	no	2010	0.000010	0.001	25	110	0.312	
81	РСВ	110/115		326	20.90	52747	1.45	89039	0.180263	0.001	558	no	0.93	-
00	DCB	00	PeCB :		20.88	36291	yes	0440	0.000505		359			
02	PCB	UZ.	PeCB :	326 328	21.16 21.15	1901 1544	1.23 no	3446	0.009535	0.002	22 19	no	0.681	-
83	РСВ	111		326	NotFnd	*	*	*		0.001	19	no	1.022	-
			PeCB :	328	21.45	•	no						,	
84	PCB			326	NotFnd	•	•	*		0.001		no	1.091	-
g F	pca.	108/124	PeCB :	328 326	21.81 22 .7 6	2038	no 1 73	2240	0.005049	0.004	40	4-	4.004	
55			PeCB :		22.78	1180	1.73 yes	3218	0.005048	0.001	18 17	no	1.201	-
86	РСВ	107	;	326	22.97	8033	3.39	10403	0.014248	0.001	57	no	1.375	-
			PeCB 3	328	22.98	2370	no				35	**-		
87	PCB			326	NotFnd	*	•	*		0.001		no	0.921	-
88	РСВ		PeCB (328 326	23.08 NotFnd	*	no •			0.001		no	1,282	_
			PeCB 3		23.19	•	no			0.001		110	1,202	-
89	РСВ	118	;	326	23.35	60947	1.72	96317	0.164171	0.001	488	no	1.028	-
			PeCB 3	328	23.33	35370	yes				422			

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9	10 P	CB 122	PeC	326 3 328	NotFnd 23.63	•	* no	*			0.001		no	1.158	-
9	11 P	CB 114		326	NotFnd	:	*	•			0.001		no	1.023	-
9	2 P	CB 105	Peci	328 326	23.82 24.39	18448	no 1.54	30437	0.048125		0.001	139	no	1.024	_
ç	3 P	CB 127	PeC	3 328 326	24.38 NotFnd	11989	yes *				0.001	135			
			PeCE	3 328	25.69	*	no				0.001		no	1.256	•
g	4 P	CB 126	PeCE	326 3 328	NotFnd 27,22	:	no	*			0.001		no	1.093	-
9	5 P	CB 155		360	NotFnd	*	*	*			0.001		no	1.103	-
9	6 PC	OB 152		362 360	19.26 NotFnd		no *	•			0.001		no	0.849	_
9	7 P(CB 150	HxCE	362 360	19.40 NotFnd	*	no *				0.001				
			HxCE	362	19.53	*	no						no	0.77	-
9	8 PC	CB 136	HxCE	360 362	19.80 19.78	5590 45 4 5	1.23 yes	10134	0.026115		0.001	164 112	no	0.816	-
9	9 P (CB 145	HxCE	360	NotFnd	*		•			0.001	112	no	0.755	-
10	0 PC	CB 148		360	20.03 NotFnd	*	no *				0.001		по	0.617	_
10	1 PC	CB 151/135	HxCE	362 360	21.13 21.63	* 19183	no 1.29	34055	0.119403		0.001	417			
			HxCE	362	21.61	14892	yes					297	no	0.6	-
10	2 PC	CB 154	HxCB	360 362	21.82 21.82	2528 1825	1,39 yes	4353	0.01324		0.001	67 43	no	0.691	-
10	3 PC	CB 144	HxCB	360	22.10	1784	1.29	3163	0.010769		0.001	43	no	0.618	-
10-	4 PC	CB 147/149		360	22.07 NotFnd	1380	yes •	•			0.002	32	no	0.809	-
10	5 PC	CB 134/143	HxCB	362 360	22.36 NotFnd	• :	no *				0.002		no	0.689	
			HxCB	362	22.61	*	no						110		-
100	י אר	CB 139/140	HxCB	360 362	22.90 22.88	1161 1180	0.98 no	2341	0.006124		0.002	8 22	no	0.804	-
10	7 PC	CB 131	HxCB	360 362	NotFnd	:	•	*			0.002		no	0.649	-
108	PC	B 142		360	23.05 NotFnd	•	no *	•			0.002		no	0.718	_
109	PC	B 132	HxCB	362 360	23,19 NotFnd	•	no *				0.002		20	0.7	
			НхСВ	362	23.44		no			,			no		-
110	PC	B 133	HxCB	360 362	NotFnd 23.86	:	no	*			0.002		no	0.786	-
111	PC	B 165	HxCB	360	NotFnd 24.22	:	*	*			0.002		no	0.992	-
112	PC	B 146		360	24.44	18951	no 1. 22	34515	0.081103		0.002	137	no	0.895	-
113	PC	B 161	HxCB	362 360	24,43 NotFnd	15564	yes *				0.002	242	no	1.015	
			HxCB	362	24.54		no						110	1.015	-
114	PC	B 153/168	НхСВ	360 362	24,99 25.01	139955 109512	1.28 yes	249467	0.528227		0.002	983 1679	no	0.993	-
115	PC	B 141	HxCB	360 362	25.17 25.15	3305 2569	1.29	5874	0.015766		0.002	29	no	0.784	-
116	PC	B 130		360	25.53	2361	yes 1.39	4064	0.011937		0.002	47 18	no	0.716	-
117	PC	B 137	HxCB	362 360	25.53 25.75	1703 1282	yes 0.85	2787	0.008685		0.002	22 14	no	0.675	_
			HxCB	362	25.76	1505	no					27	110		-
116	PC	B 164	НхСВ	360 362	25.84 25.8 5	4563 2828	1.61 no	7391	0.014009		0.001	35 45	no	1.109	-
119	PC	B 138/163/129	HxCB	360 362	26.13 26.17	7 392 7 57615	1.28	131541	0.326504		0.002	497	no	0.847	-
120	PCI	B 160		360	NotFnd	*	yes *	•			0.002	844	no	0.943	-
121	PCI	B 158	HxCB	362 360	26.31 26.51	3359	no 1.04	6600	0.012581		0.001	23	no	1.103	_
			HxCB	362	26.49	3242	no					48	110		-
		B 128/166	НхСВ	360 362	27.33 27.33	4734 3255	1.45 no	7989	0.01798		0.002	34 56	no	0.934	-
123	PC	B 159	НхСВ	360 362	NotFnd 28.29	*	*	•	•		0		no	1.254	-
124	PC	B 162		360	NotFnd	*	no *	*			0		no	1.204	
125	PCE	B 167	HxCB	362 360	28.55 29.03	4209	no 1.21	7676	0.012463		0	126	no	1.103	_
		B 156/157	HxCB		29.04 30 .17	3467 4086	yes					96			-
			HxCB	362	30.17	3723	1.1 yes	7809	0.01252		0	110 79	no	1.047	-
127	PCE	3 169	НхСВ	360 362	NotFnd 33.58	*	no	*			0.001		no	1.04	-
128	PCE	3 188		394	NotFnd	*	*	*	-0.00302		-0.00302	•	no	1.069	-
129	PCE	3 179	НрСВ	396 394	23.80 24.09	- 7947	no 1.03	15635	0.029401		-0.00288	* 28	no	1.122	888 - 001
130	PCF	3 184	НрСВ	396 394	24.09 NotFnd	7689 *	yes •	•	-0.00306			28			
			НрСВ	396	24.57	•	no				-0.00306	•	no 1	1.054	·
131	PCE	3 176	НрСВ	394 396	24.85 24.87	-1731 -1648.57	1.05 OK	-3379.57	-0.0069	PCB 176 NDR	-0.00313	6 10	xL	1.032	-
132	PCE	3 186		394	NotFnd	•	•	•	-0.00335		-0.00335		no	0.965	•
133	PCE	3 178		394	25.28 26.55	6458	no 1.16	12033	0.032983		-0.00419	* 22	yes	0.77	
134	PCF	3 175	HpCB	396 394	26.56 NotFnd	5574	yes •	•	-0.00402			21	8		
			НрСВ	396	27.16	•	no				-0.00402	•	no	0.803	7
135	PCE	3 187	НрСВ	394 396	27.42 27.40	35276 33049	1,07 yes	68325	0.177086		-0.00397	118 118	no	0.814	Ē
136	PCE	3 182		394	NotFnd			•	-0.00405		-0,00405	i i	no	0.797	•
erezioù	100000-2	outras (686267)	ייייןיי	, or	27.61	arabidida (1968)	no∷		enterászádá		120/88/48/25/10/6/10/8	oe busin	862239636		

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									angga sa		.v.c.co.ess
137 PCB 183	394	28.01	8166	1.08	15717	0.032821	-0.00404	24 24	yes	1.01	
138 PCB 185	HpCB 396 394	27.99 NotFnd	7552 •	yes •	•	-0.00502	-0.00502	*	no	0.813	
	HpCB 396	28.08	•	no			-0.00453	•	yes	0.901	
139 PCB 174	394 HpCB 396	28.25 28.24	799 802	1 no	1601	-0.00453	-0.00433	•	yes		
140 PCB 177	394	28.68	10316	1.05	20104	0.04832	-0.00465	28 30	no	0.878	
141 PCB 181	HpCB 396 394	28.65 NotFnd	9788	yes *	•	-0.0046	-0.0046	•	no	0.887	•
	HpCB 396	29.06	•	no		0.046453	-0.00478	* 10	no	0.854	
142 PCB 171/173	394 HpCB 396	29.29 29.28	3400 3138	1.08 yes	6537	0.016153	-0.00470	11	""		
143 PCB 172	394	NotFnd	•	*	•	-0.0047	-0.0047	•	no	0.869	•
144 PCB 192	HpCB 396 394	30,93 NotFnd	•	no •	•	-0.00385	-0.00385	٠	no .	1.06	-
	HpCB 396	31.24	12613	no 0.97	25677	0.050145	-0.00348	31	no	1.172	•
145 PCB 193/180	394 HpCB 396	31.63 31.59	13063	yes				34			
146 PCB 191	394 HpCB 396	NotFnd 31.97	•	no	•	-0.00344	-0.00344		no	1,186	
147 PCB 170	394	32.92	1672	1.16	3107	0.006953	-0.00349	5	no	1.171	-
148 PCB 190	HpCB 396 394	32.94 NotFnd	1435 *	yes •	***	-0.0035	-0.0035	3	no	1.165	1
	HpCB 396	33,50		no			0.001		no	0.922	22553
149 PCB 189	394 HpCB 396	NotFnd 36.32		no				nome trace to be a	er saaadoo stati		x:::::::::::::::::::::::::::::::::::::
150 PCB 202	428	28.79	4030	0.86	8697	0.019321	-0.00447	12 11	no	1.031	
151 PCB 201	OcCB 430 428	28.80 29.70	4667 1522	yes 0.85	3306	0.006718	-0.00428	5	yes	1.078	-
450 POD 004	OcCB 430 428	29.72 NotFnd	1784	yes *	•	-0.00435	-0.00435	4	no	1.06	
152 PCB 204	OcCB 430	30.41	•	no				•		1.082	
153 PCB 197	428 OcCB 430	NotFnd 30.64	•	no		-0.00426	-0.00426	•	по	1,002	
154 PCB 200	428	NotFnd	•	•	•	-0.00454	-0.00454		no	1,016	-
155 PCB 198/199	OcCB 430 428	30.75 NotFnd		no *	•	-0.00594	-0.00594	•	no	0.777	3
	OcCB 430	33.69	•	no	•	-0.00563	-0.00563		no	0.819	
156 PCB 196	428 OcCB 430	NotFnd 34,40	i.	по		-0.00003					
157 PCB 203	428	NotFnd		•	•	-0.00559	-0.00559	•	no	0.825	-
158 PCB 195	OcCB 430 428	34.60 NotFnd	•	no •	•	-0.00349	-0.00349		no	0.931	-
	OcCB 430 428	36.05 NotFnd	•	no *	•	-0.00337	-0.00337	•	no	0.962	
159 PCB 194	OcCB 430	38.68	•	no				•		0.000	
160 PCB 205	428 OcCB 4 30	NotFnd 39,22	:	no	•	-0.00327	~0.00327	*	no	0.992	-
161 PCB 208	462	NotFnd	:	•	*		0.002		no	1.042	-
162 PCB 207	NoCB 464 462	35.81 NotFnd	:	no •			0.002		no	1.302	-
	NoCB 464	36.85	•	no •			0.002		no	1.017	
163 PCB 206	462 NoCB 464	NotFnd 41.19	*	no							
164 PCB 209	498 DCB 500	NotFnd 43.06	:	no	•		0	•	no	1.026	•
165 PCB 1L	200	8.82	36885	2.5	51658	0.067605	0.005	787	no	0.997	34
166. PCB 3L	202 200	8,82 10.00	14773 39028	no 2.64	53809	0.066856	0.005	15 843	no	1.05	34
100 1 00 00	202	9.99	14782	no			0.004	16 78	no .	0.464	41
167 PCB 4L	234 236	10.1 1 10.10	17035 11677	1.46 yes	28712	0.08068		129	110		
168 PCB 15L	234	12.70	58756	1.65	94343	0.105416	0.002	93 304	no	1.168	53
169 PCB 19L	236 268	12.69 11.48	35587 1 9333	yes 1.15	36143	0.088017	0.008	29	no	0.536	44
	270 268	11.47 16.35	16809 629 14	yes 1.01	125207	0.166592	0.004	43 100	no	1.848	84
170 PCB 37L	270	16.35	62292	yes				107			63
171 PCB 54L	302 304	12.82 12.82	17629 23165	0.76 yes	40794	0,125038	0.003	98 179	no	0.802	63
172 PCB 81L	302	20.99	56519	0.85	122857	0.189087	0.001	344 288	no	1.597	95
173 PCB 77L	304 302	20.97 21.42	66338 58966	yes 0.83	130370	0.199436	0.001	364	no	1.607	100
	304	21.4 2	71404	yes	57777	0.177038	0	302 2248	по	0.912	89
174 PCB 104L	338 340	15.62 15.64	35843 21935	1.63 yes				1230			
175 PCB 123L	338 340	23.05 23.02	75777 47333	1.6 yes	123110	0.217519	0.001	747 588	no	1.581	110
176 PCB 118L	338	23.33	69234	1.57	113284	0.2096	0.001	665	no	1.51	106
177 PCB 114L	340 338	23.31 23.80	44050 65409	yes 1.46	110236	0.209311	0.001	544 630	no	1.471	105
	340	23.78	44827	yes			0.001	545 687	no	1.488	116
178 PCB 105L	338 340	24.3 5 24.34	7 5679 46897	1.61 yes	122576	0.230046		5 7 7			
179 PCB 126L	338	27.19	64758	1.43	109899	0.213087	0.001	592 517	no	1.44	107
180 PCB 155L	340 372	27.15 19.24	45141 42426	yes 1.41	72436	0.179857	0.001	1780	no	1.01	91
	374	19.26 29.01	30010 62321	yes 1.28	110899	0.195359	0.001	794 702	no	1.424	98
181 PCB 167L	372 374	29.00	48579	yes				661			
182 PCB 156L/157L	372 374	30,15 30,15	131118 105399	1.24 yes	236517	0.39698	0.001	1272 1252	no	1.495	100
183 PCB 169L	372	33.55	42745	1.28	76051	0.125698	0.001	470	no	1.518	63
	374	33.54	33306	yes				450			

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			10170	1.07	89297	0.196079		0.001	2302			
184 PCB	1881 406	23.78	46176		0020.				439	no	1.343	99
104 1 00	408	23.78	43121	yes	86772	0.195564		0.001				
185 PCB	406	31.59	44904	1.07	00//2	0. 1000		PP 02/P VEX COLUMN TRACE A TAX	1150	no	1.141	101
185 PUB	408	31.58	41868	yes	7-000	0.200979		0.001	385	110	1	
	7.8000 mms. man and an	32.90	39877	1.11	75800	0.200973			1004		1.923	99
186 PCB	408	32.89	359 2 3	yes		0.400049		0.001	349	no	1.320	•••
		36.29	62882	1.02	124579	0.196048			514		1.353	98
187 PCB	189L 408	36.29	61697	yes			#530 WASHING TO	0.001	714	no	1.353	90
		28.77	42628	0.97	86710	0.193955			1314		(2008) Britis	404
188 PCB	202L 440	28.76	44081	yes				0.002	326	no	1.424	101
	442	39.19	44011	0.87	94585	0.201025		0.00-	347			
189 PCB	205L 440		50575	yes				0.001	930	no	1.309	98
	442	39.19	36157	0.75	84504	0.195315		0.00	671			
190 PCB	208L 474	35.78	48348	yes				0.001	640	no	0.924	102
100	476	35.79		0.73	61949	0.203002		0.001	467			
191 PCB	206L 474	41.19	26027		0,0.0			0.004	755	no	0.828	109
191 100	476	41.20	35922	yes	59329	0.216755		0.001	1115	110		
192 PCB	2001 510	43.02	32660	1.23	59329	0,210.00				no	1.969	76
192 PGE	512	43.06	26669	yes	400000	0.167214		0.004	121	110	11000	
		14.13	69196	1.07	133922	0.107214			122		1.373	106
193 PCE	B Cleanup Standard 270	14.13	64726	yes		0.000E3		0.001	1432	no	1.570	100
		21,42	70986	1.63	114656	0.233252			1086		0.732	106
194 PCE		21.40	43670	yes				0.001	539	yes	0.732	100
PC	B Cleanup Standard 340	26.51	34583	1.04	67905	0.23261			1694			
195 PC		26.52	33321	yes				0.004		no	1.878	
PC	B Cleanup Standard 408	NotFnd	*	í*	*							
196 PCI	31L 268		*	no				0.001		no	0.916	
	PCB Audit Standard 270	13.98		*				0,001				
197 PC	B 95L 338	NotFnd		no				0.001		no	1.173	
101 1 0	PCB Audit Standard 340	17.38		*	*			0.001				
198 PC		NotFnd							873	. no	-	-
150 10	PCB Audit Standard 374	24.98		no	845034	2.082353		-	3054			
199 PC		10.99	520993	1.61	045057	2.00200				no		-
199 PC	B Recovery Standard 236	11.00	324042	yes	*****	1.98829		-	770	110		
PC	B F600 F61 302	15.07	197174	0.78	448609	1.90020			1375		_	
200 PC	B Recovery Standard 304	15.05	251435	yes		4 000000		-	5025	no	_	
PC	B Recovery Standard 338	19.38	245748	1.65	394868	1,926998			3891			_
201 PC		19.36	149119	yes				-	2981	no	-	-
PC	B Recovery Standard 340		245561	1.26	43962	0 2,104557			3461			
202 PC		26.07	194059	yes				-	1381	no	-	-
PC	B Recovery Standard 374		177212	0,95	36443	6 1.937182			1277			
203 PC	B 194L 440		187224									
PC	B Recovery Standard 442	38.59	101227	,			•	-0.001				
						-0.001	0	-0.011				
CI	nlorobiphenyls					-0.011	0					
0.	chlorobiphenyls					0.070465	6	-0.004				
T.	ichlorobiphenyls					0.397501	15	-0.002				
	etrachlorobiphenyls					0.96586	13	-0.002				
11	entachlorobiphenyls					1.217426	16	-0.002				
۲.	entachiolophichylo						8	-0.00502				
Н	exachlorobiphenyls					0.393862	2	-0.00594				
H	eptachlorobiphenyls					0.026039	ō	-0.002				
C	ctachlorobiphenyls					-0.002	0	0				
N	Ionachiorobiphenyls					0	U	-				
C	ecachlorobiphenyl					3.071153						
	CB (total)											

Maxxam Analytics

1.142 99

Acquired Date

Dataset:

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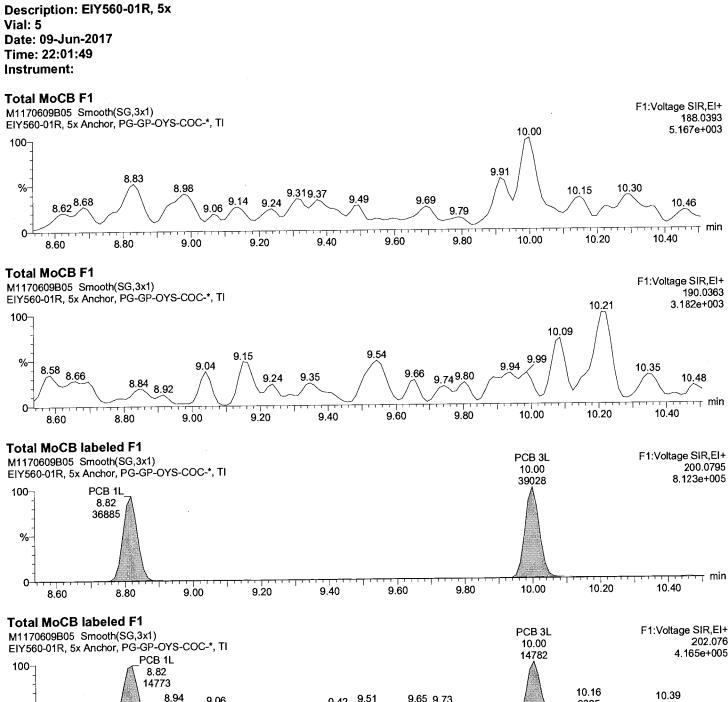
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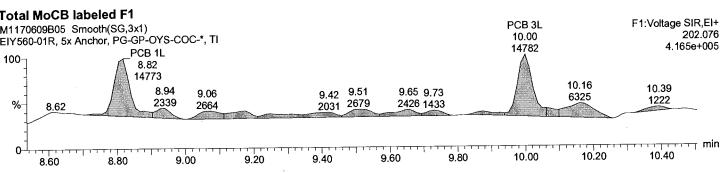
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Monday, June 12, 2017 9:43:10 AM

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AutoSpec Ultima - M2

Acquired Date

Dataset:

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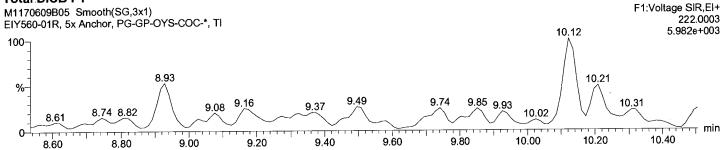
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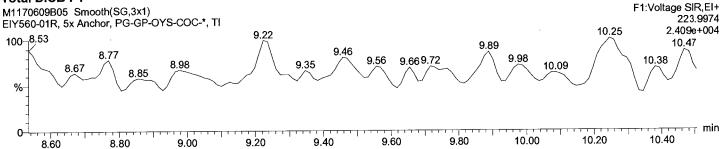
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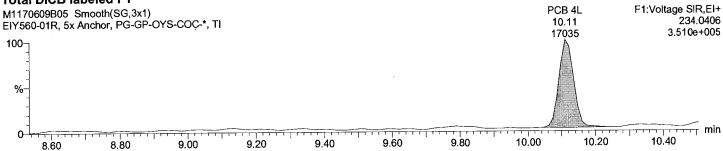




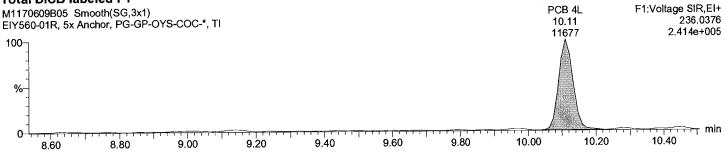




Total DiCB labeled F1



Total DiCB labeled F1



Acquired Date

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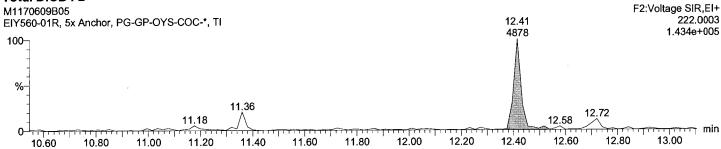
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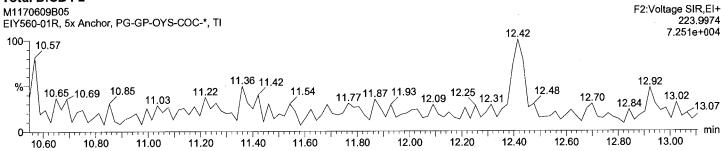
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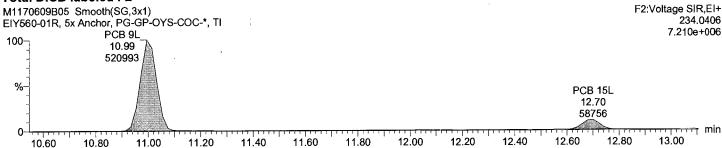
Total DiCB F2



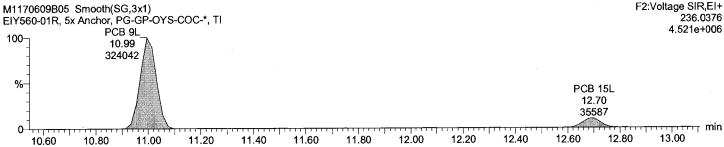
Total DiCB F2



Total DiCB labeled F2



Total DiCB labeled F2



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Acquired Date

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🔭 min

13.00

12.80

12.80

12.60

Dataset:

 $C:\\ \label{lem:compact} C:\\ \label{lem:compact} M1170609B_M1170609B_dil_1668A.qld$

Last Altered: Printed:

Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

11.14

11.00

11.20

Description: EIY560-01R, 5x

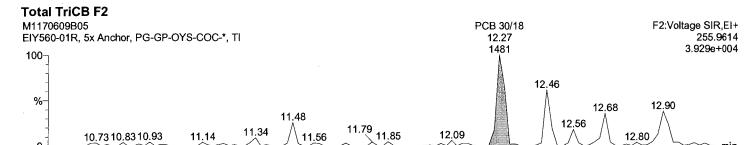
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10.80

Vial: 5

Date: 09-Jun-2017 Time: 22:01:49 Instrument:

10.60



11.80

12.00

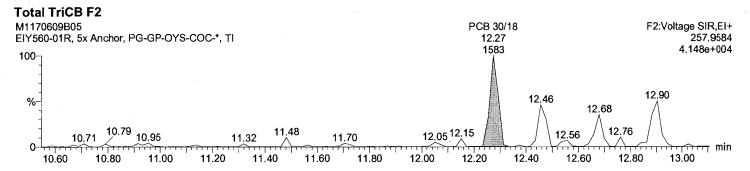
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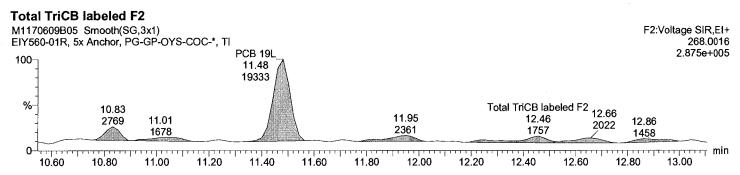
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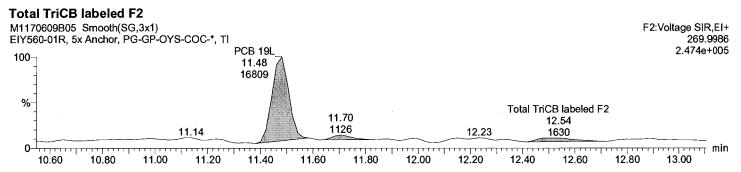
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11.60

11.40







Acquired Date

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Dataset:

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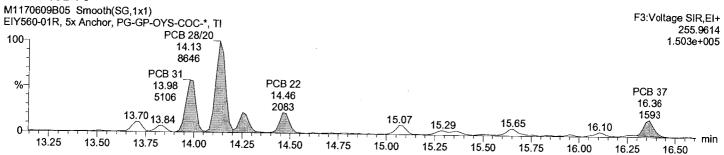
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

Description: EIY560-01R, 5x

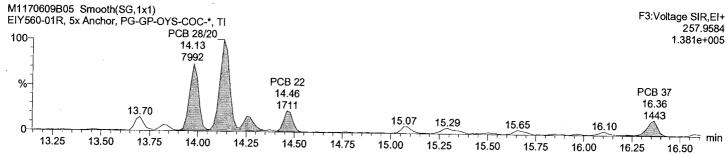
Vial: 5

Date: 09-Jun-2017 Time: 22:01:49 Instrument:

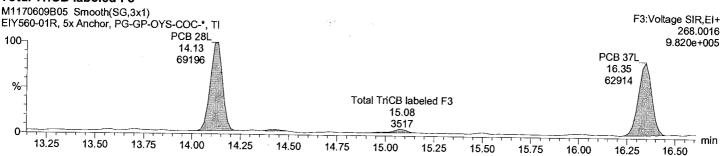
Total TriCB F3



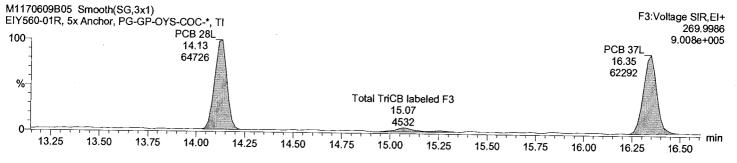
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Total TriCB labeled F3



Total TriCB labeled F3



Acquired Date

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Dataset:

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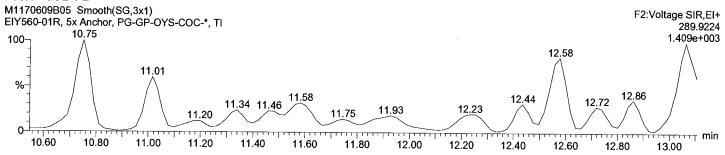
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Description: EIY560-01R, 5x

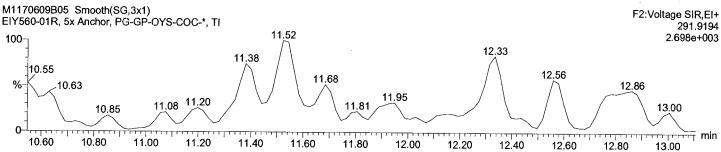
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Date: 09-Jun-2017 Time: 22:01:49 Instrument:

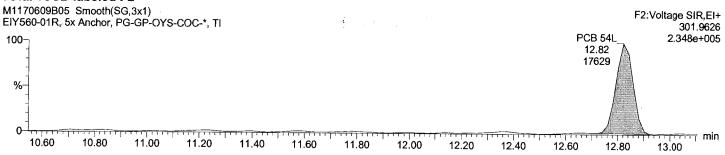
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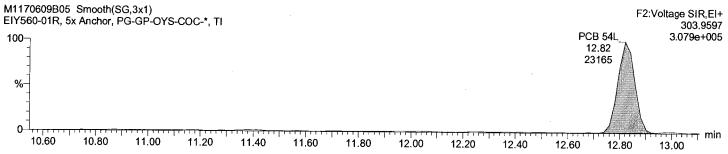
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Total TeCB labeled F2



Total TeCB labeled F2



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B dil 1668A.qld

Last Altered: Printed:

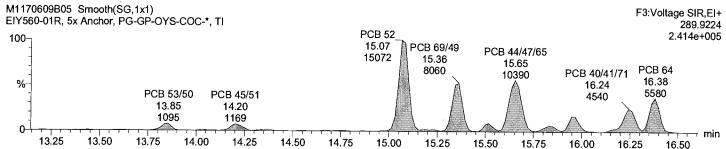
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

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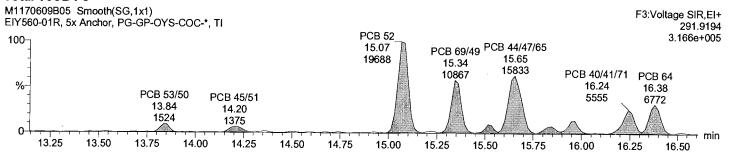
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Date: 09-Jun-2017 Time: 22:01:49 Instrument:

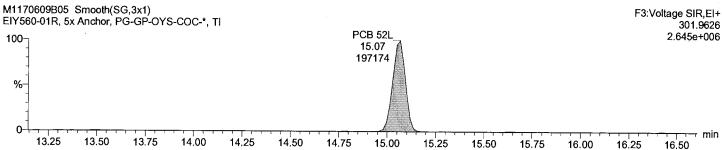
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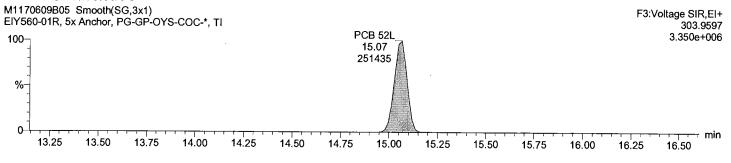
Total TeCB F3



Total TeCB labeled F3



Total TeCB labeled F3



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qtd

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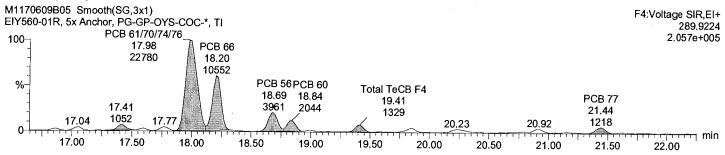
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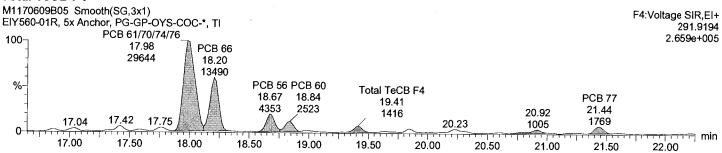
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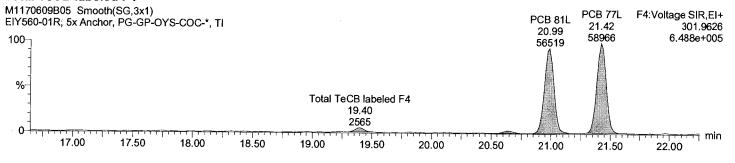
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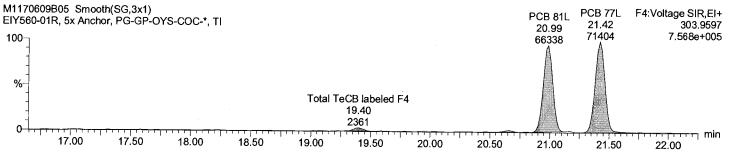
Total TeCB F4



Total TeCB labeled F4



Total TeCB labeled F4



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B dil 1668A.qld

Last Altered: Printed:

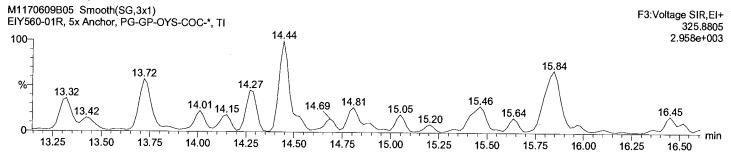
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Description: EIY560-01R, 5x

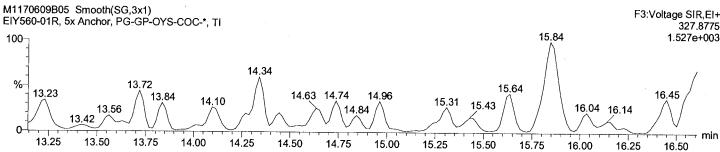
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Date: 09-Jun-2017 Time: 22:01:49 Instrument:

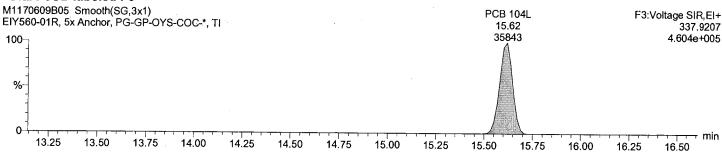
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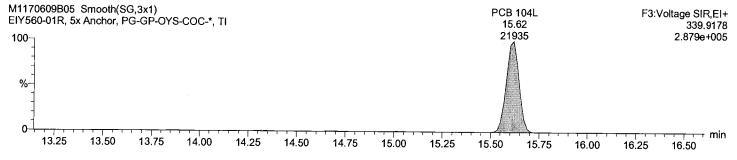
Total PeCB F3



Total PeCB labeled F3



Total PeCB labeled F3



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered: Printed:

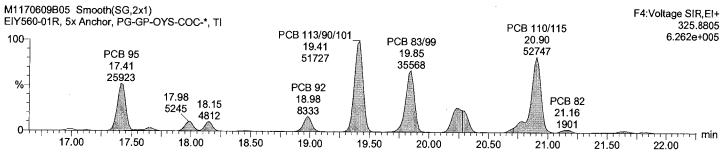
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

Description: EIY560-01R, 5x

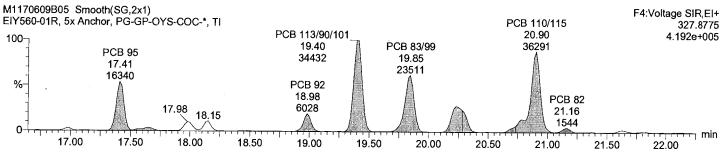
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Date: 09-Jun-2017 Time: 22:01:49 Instrument:

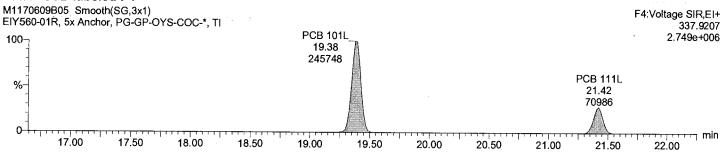
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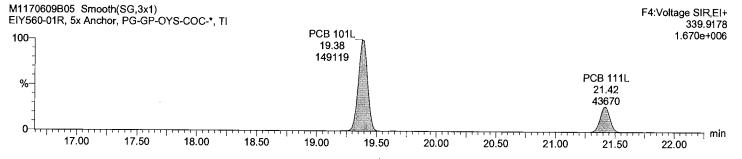
Total PeCB F4



Total PeCB labeled F4



Total PeCB labeled F4



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

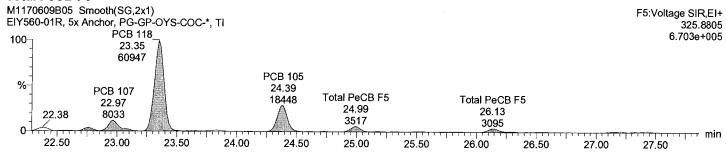
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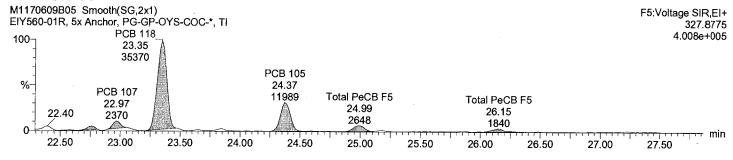
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Date: 09-Jun-2017 Time: 22:01:49 Instrument:

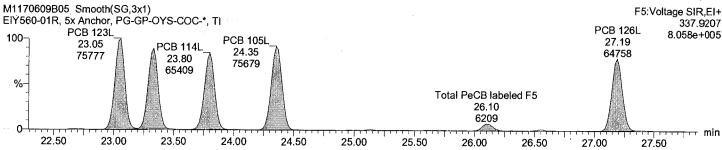
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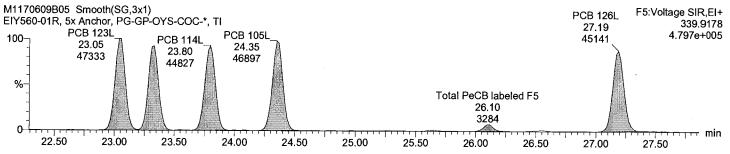
Total PeCB F5



Total PeCB labeled F5



Total PeCB labeled F5



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered: Printed:

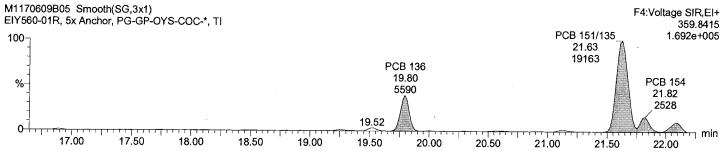
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

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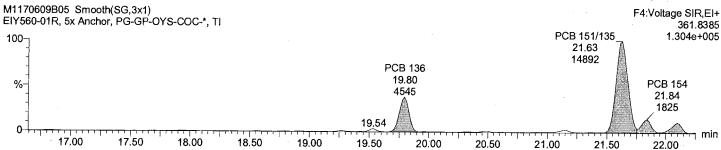
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Date: 09-Jun-2017 Time: 22:01:49 Instrument:

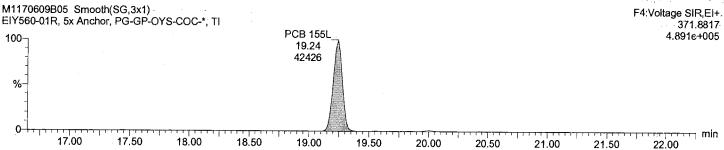
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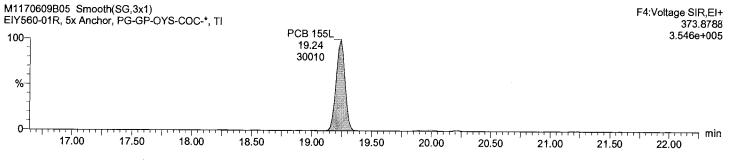
Total HxCB F4



Total HxCB labeled F4



Total HxCB labeled F4



Acquired Date

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Dataset:

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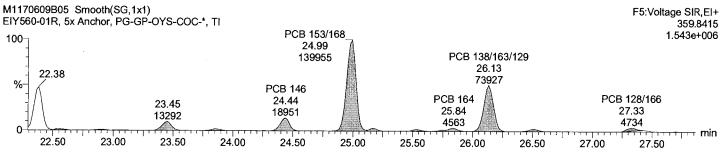
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

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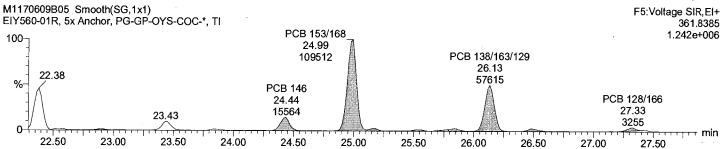
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Date: 09-Jun-2017 Time: 22:01:49 Instrument:

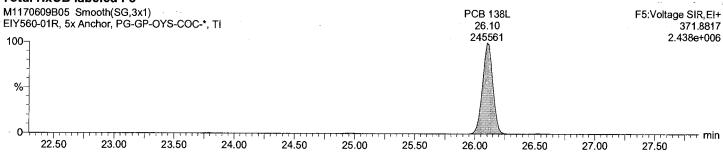
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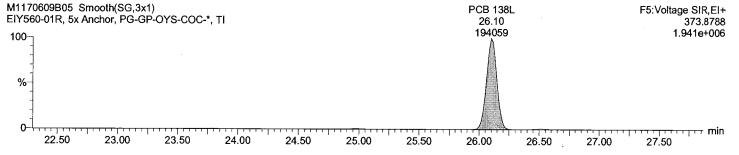
Total HxCB F5



Total HxCB labeled F5



Total HxCB labeled F5



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered: Printed:

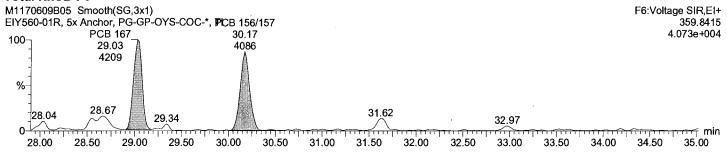
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

Description: EIY560-01R, 5x

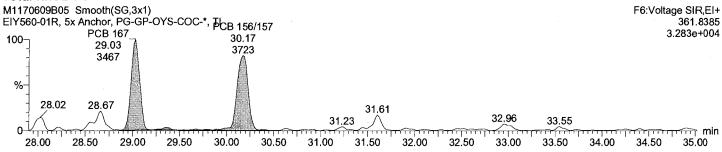
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Date: 09-Jun-2017 Time: 22:01:49 Instrument:

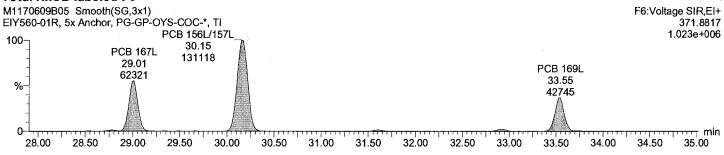
Total HxCB F6



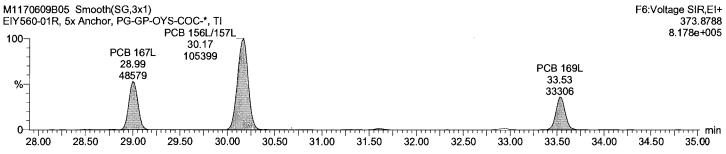
Total HxCB F6



Total HxCB labeled F6



Total HxCB labeled F6



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

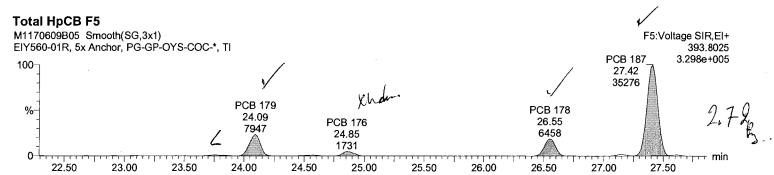
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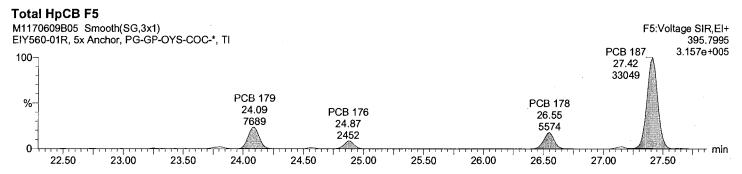
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

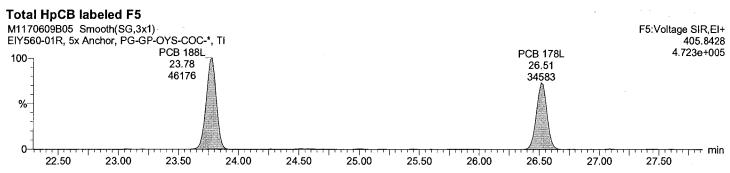
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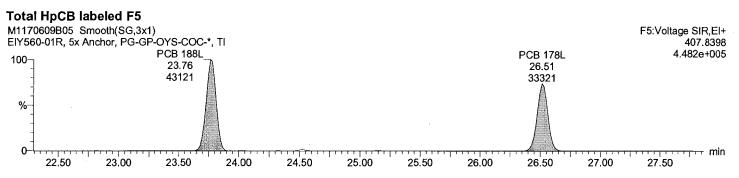
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Date: 09-Jun-2017 Time: 22:01:49 Instrument:









Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

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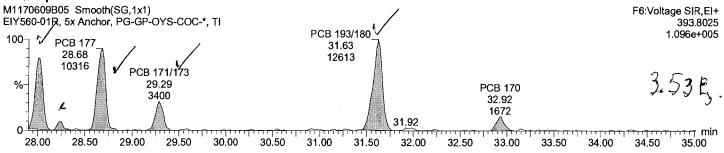
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

Description: EIY560-01R, 5x

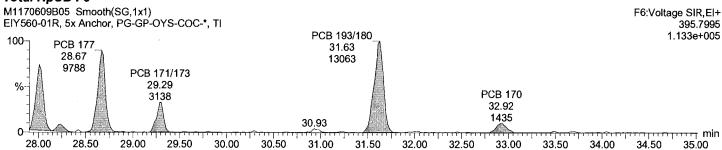
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Date: 09-Jun-2017 Time: 22:01:49 Instrument:

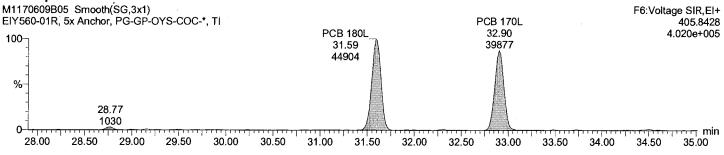




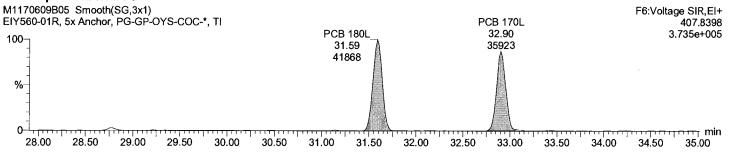
Total HpCB F6



Total HpCB labeled F6



Total HpCB labeled F6



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B dil 1668A.qld

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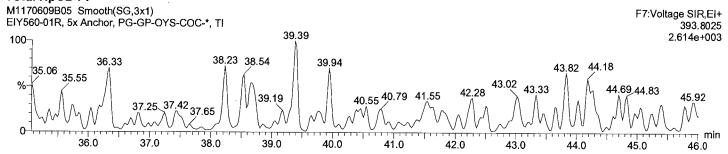
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

Description: EIY560-01R, 5x

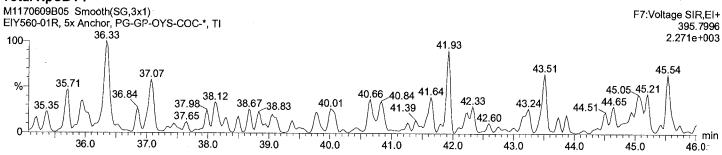
Vial: 5

Date: 09-Jun-2017 Time: 22:01:49 Instrument:

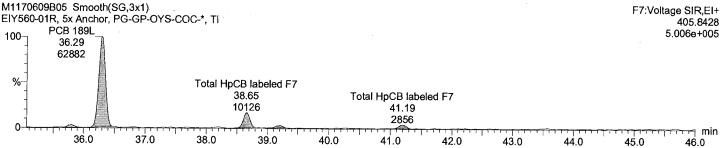
Total HpCB F7



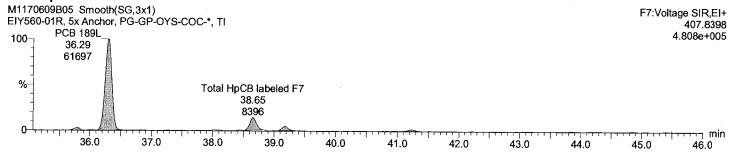




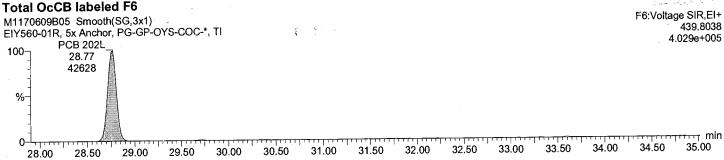


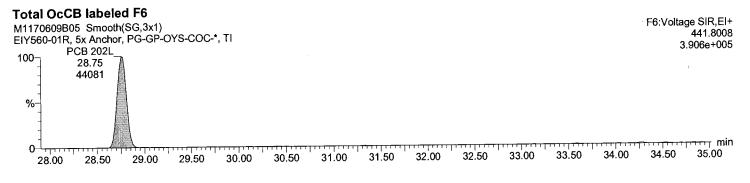


Total HpCB labeled F7



Page 18 of 23 **Quantify Sample Report Acquired Date** C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld Dataset: Monday, June 12, 2017 9:42:21 AM Last Altered: Monday, June 12, 2017 9:43:10 AM Printed: Description: EIY560-01R, 5x Vial: 5 Date: 09-Jun-2017 Time: 22:01:49 Instrument: **Total OcCB F6** F6:Voltage SIR,EI+ M1170609B05 Smooth(SG,1x1) 427.7635 EIY560-01R, 5x Anchor, PG-GP-OYS-COC-*, TI 4.234e+004 PCB 202 100 28.79 4030 PCB 201 29.70 1522 34.38 34.65 33.74 30.64 min min 35.00 34.50 31.00 32.50 33.00 33.50 34.00 31.50 32.00 30.50 28.50 29.00 29.50 30.00 28.00 **Total OcCB F6** F6:Voltage SIR,EI+ M1170609B05 Smooth(SG,1x1) 429.7606 EIY560-01R, 5x Anchor, PG-GP-OYS-COC-*, TI 4.390e+004 **PCB 202** 100 28.79 4667 PCB 201 29.70 % 1784 33.68 30,60,30.69 34.38 30.38 min דררד 34,00 34.50 35.00 32.50 33.00 33.50 30.00 30.50 31.00 31.50 32.00 29.50 29.00 28.00 28.50 Total OcCB labeled F6 F6:Voltage SIR,EI+ 439.8038 4.029e+005 PCB 202L 100 28.77 42628





Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

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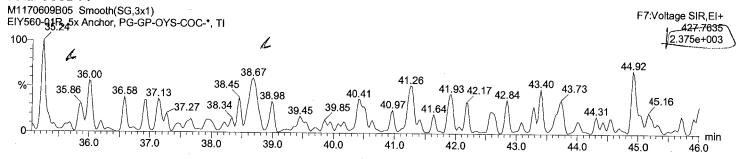
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

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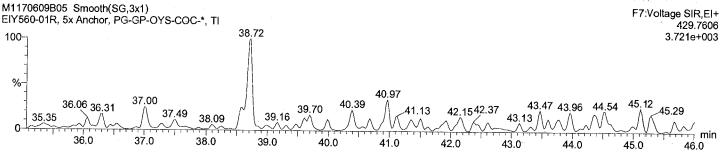
Vial: 5

Date: 09-Jun-2017 Time: 22:01:49 Instrument:

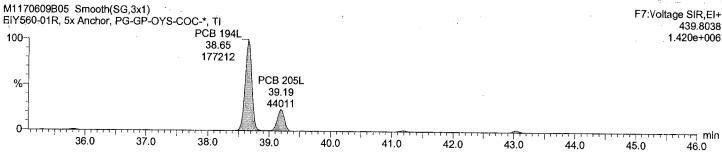




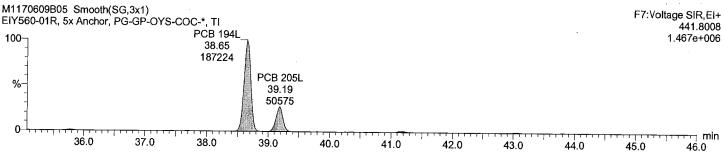
Total OcCB F7



Total OcCB labeled F7



Total OcCB labeled F7



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered: Printed:

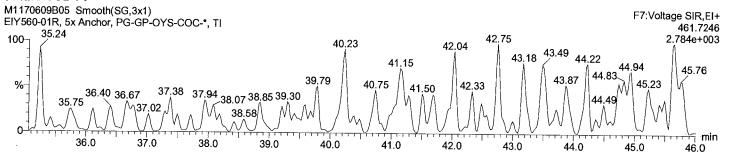
Monday, June 12, 2017 9:42:21 AM Monday, June 12, 2017 9:43:10 AM

Description: EIY560-01R, 5x

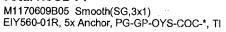
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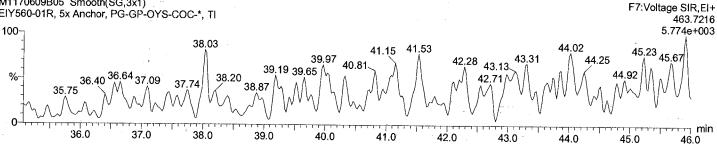
Date: 09-Jun-2017 Time: 22:01:49 Instrument:



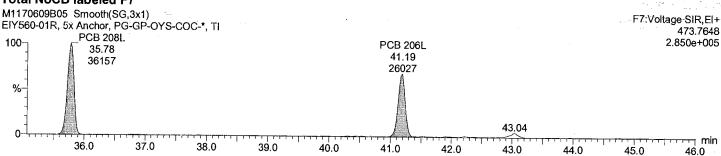


Total NoCB F7

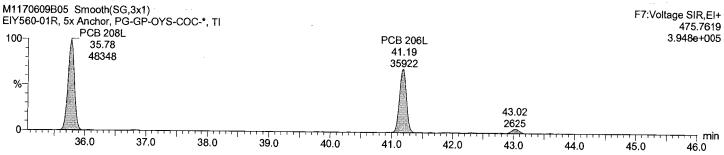




Total NoCB labeled F7



Total NoCB labeled F7



Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered: Printed:

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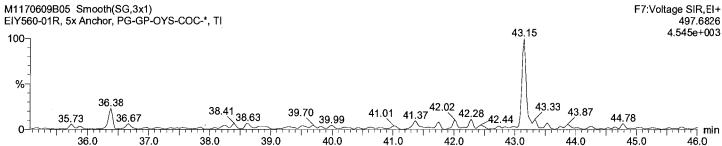
Monday, June 12, 2017 9:43:10 AM

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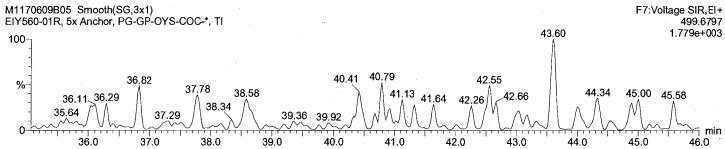
Vial: 5

Date: 09-Jun-2017 Time: 22:01:49 Instrument:

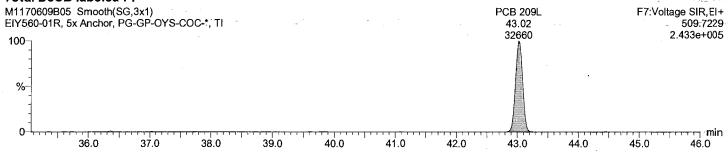




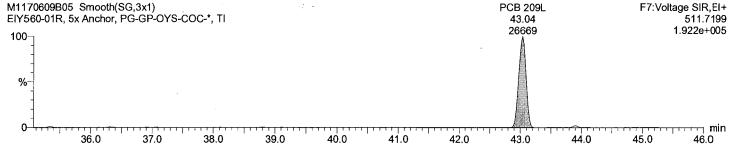
Total DeCB F7



Total DeCB labeled F7



Total DeCB labeled F7



Quantify Sample Report Page 22 of 23 **Acquired Date** Dataset: C:\MassLynx\Default.pro\M1170609B \M1170609B dil 1668A.gld Last Altered: Monday, June 12, 2017 9:42:21 AM Printed: Monday, June 12, 2017 9:43:10 AM Description: EIY560-01R, 5x Vial: 5 Date: 09-Jun-2017 Time: 22:01:49 Instrument: lockmass F1 M1170609B05 Smooth(SG,3x1) lockmass F1 F1:Voltage SIR,EI+ EIY560-01R, 5x Anchor, PG-GP-OYS-COC-*, TI 218.9856 9.86 lockmass F1;8.83;53081 3.762e+006 lockmass F1;9.57;38200 17195 100 % T min 8.60 8.80 9.20 9.00 9.40 9.60 9.80 10.00 10.20 10.40 lockmass F2 M1170609B05 Smooth(SG,3x1) lockmass F2 lockmass F2 F2:Voltage SIR,EI+ EIY560-01R, 5x Anchor, PG-GP-OYS-COC-*, TI 12.21 12.46 242.9856 10.61 lockmass F2;11.26;13870 17439 14522 9.015e+005 100-% TTT min 10.60 10.80 11.00 11.20 11,40 11.80 11.60 12.00 12.20 12.40 12.60 12.80 13.00 lockmass F3 M1170609B05 Smooth(SG,3x1) lockmass F3F3:Voltage SIR,EI+ EIY560-01R, 5x Anchor, PG-GP-OYS-COC-*, TI 16.12 292,9824 lockmass F3;13.99;7117 lockmass F3;15.00;10960 11756 8.186e+005 13.23 % 0 min 13.25 13.50 13.75 14.00 14.25 14.50 14.75 15.00 15.25 15.50 15.75 16.00 16.25 16.50 lockmass F4 M1170609B05 Smooth(SG,3x1) F4:Voltage SIR, EI+ lockmass F4 lockmass F4 lockmass F4 EIY560-01R, 5x Anchor, PG-GP-OYS-COC-*, TI 330.9792 20.19 20.83 21.34 lockmass F4;18.76;16922 1.506e+006 11916 100-lockmass F4;17.15;11858 12765

7716

20.50

21.00

21.50

20.00



17.00

%

0

17.50

18.00

18.50

19.00

19.50

22.00

📆 min

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¬¬ min 46.0

45.0

44.0

43.0

42.0

41.0

40.0

39.0

38.0

37.0

36.0

Filename M1170609B06 Acquired 06/09/2017 22:51

Call File PCB209_M1170609B

Sample ID E	1Y561-01R, 5×													
Comments strument File U Sample Size 1	Jitima 1	Dil Fac	1.00						isomers	5	S/N	Mod	nf	Rec
Sample Size				Area	ratlo	Tot Area	ng/g	Code		DL 0.001	311	no	1.053	-
	Name	mass 188	RT NotFnd	*	no	*			*	0.001		no	1.198	-
		MoCB 190 188	8.83 NotFnd	*	no	*				0.001		no	1.055	5 -
		MoCB 190 188	9.92 NotFnd	*	*	•				0.005		no	1.19	1 -
3	PCB 3	MoCB 190 222	10.01 NotFnd		no *	•				0.003		no	1.15	6 -
4	PCB 4	DICB 224	10.12 NotFnd	:	no *	•				0.006		no	1.54	4 -
5	PCB 10	222 DICB 224	10.21 NotFnd	:	no *	*						no	1.39	9 -
6	PCB 9	222 DICB 224	11.01	*	no *	•				0.007		no	1.42	24 -
7	PCB 7	222 DICB 224	NotFnd 11.09		no *					0.007		no	1.4	62 -
{	PCB 6	222 DICB 224	NotFnd 11.19		no *					0.006				
,	9 PCB 5	222 DICB 224	NotFnd 11.31	•	no	,				0.006		no		
1	0 PCB 8	222	NotFno	• :	no					0.006		no		506 -
1	1 PCB 14	DICB 224 222	NotFn	d	· no					0.007		no		.42 -
•	12 PCB 11	DICB 224 222	12.05 NotFn		, * • no	,				0.008		n	0 1.	443 -
	13 PCB 13/12	DICB 224 222	12.42 NotFn	d '	. *	•				0.008		n	0 0	.956 -
		DICB 224 222			• '* • n	•	ı			0.005	į.	n	10	.06
	14 PCB 15	DICB 224 256	12.70		* '	'	•			0.003	3	r	10 1	.033 -
	15 PCB 19	TriCB 258	11.48	3	•	•	• .			0.004		,	no ().838
	16 PCB 30/18	TriCB 258	12.2	7		10	*			0.00			no	1.164
	17 PCB 17	256 TrICB 25	8 12.4	8		10 *	•						no	1.35
	18 PCB 27	25 TriCB 25	8 12.5	6	*	no *	•			0.00				0.606
	19 PCB 24	25 TriCB 25	8 12.6	51	•	no *				0.00)5		no	1.334
	20 PCB 16	25 TriCB 25	56 Not		•	no •	*			0.00	02			1.427
	21 PCB 32	ZfICB 25	56 Not		•	no *				0.0	01		no	1.32
	22 PCB 34		56 No	Fnd	:	no				0.0	01		no	
	23 PCB 23	2	56 No	tFnd .56	*	no				0.0	001		no	1.443
	24 PCB 26/29		56 No	tFnd	:	no	•			0.0	001		no	1.389
		TriCB 2	256 No	.72 otFnd		* no	•				0	32	no	1.527
	25 PCB 25	TriCB 2	258 13	3.85 3.99	1260	0.81		0.003996		0.	.001	30 72	no	1.441
	26 PCB 31	TriCB	258 14	1.01 4.13	1555 2288	no 1.11	4341	0.006529		0	.001	41	no	1.391
	27 PCB 28/20	TriCB	258 1	4.16 lotFnd	2053	yes *	•				.001		no	1.357
	28 PCB 21/33	TriCB	258 1	4.27 lotFnd	*	no •	•			0	0		no	1.632
	29 PCB 22	TriCB	258 1	4.47	•	no *	*				-		no	1.448
	30 PCB 36	TriCB	258	NotFnd 15.30	•	no •					0.001		no	1.474
	31 PCB 39	TriCB	258	NotFnd 15.50	•	no *					0.001			1.4
	32 PCB 38		256	NotFnd 15.87	•	no *					0.001		no	0.951
	33 PCB 35		256	NotFnd 16.10	*	no *					0.001		no	
	34 PCB 37		256	NotFnd 16.36	;	no					0.001		no	1.071
	35 PCB 54		B 258 290	NotFnd	•	no					0.001		no	0.861
	36 PCB 53	/50	B 292 290	12.82 NotFnd	•	no	•				0.001		no	0.832
		J51	B 292 290	13.86 NotFnd		no	*				0.002		no	0.718
	37 PCB 45	10	292 290	14.21 NotFnd	•	•	•				0.001	75	no	0.96
	38 PCB 46	. 10	292 290	14.35 15.08	3031	no 0.87	6525	0.011895			0.001	28	no	1.01
	39 PCB 52	2 T(CB 292	15.05 NotFnd	3494	yes *	•				0.002		no	0.78
	40 PCB 7	3 т	290 CB 292	15.14		no *						23	no	0.05
	41 PCB 4	з т	290 CB 292	NotFnd 15.21	* 1033	no 0.81	230	0.004243			0.001	10		
	42 PCB 6		290	15.36 15.33	1033									

					*			0.001		no	0.848	-	
43 PCB 48	290 TCB 292	NotFnd 15.50	•	no	E 422	0.01	n38	0.001	52	no	0.917	-	
44 PCB 44/47/65	290 TCB 292	15.6 7 15.64	2446 2986	0.82 yes	5432	0.01	0 50	0.001	20	no	1.12	-	
45 PCB 59/62/75	290 TCB 292	NotFnd 15.83	*	no	•			0.002		no	0.728	-	
46 PCB 42	290	NotFnd 15.94	*	* no	*			0.001	26	no	0.85	-	
47 PCB 40/41/71	TCB 292 290	16.24	1274 1144	1.11 no	2418	0.00	4983		8	no	1.079	-	
48 PCB 64	TCB 292 290	16.23 NotFnd	*	•	•			0.001		no	1.426	_	
49 PCB 72	TCB 292 290	16.37 NotFnd	•	no *	*			0.001			1.39	_	
	TCB 292 290	16.90 NotFnd	*	no *	•			0.001		no			
50 PCB 68	TCB 292 290	17.08 NotFnd	*	no *				0.001		no	1.359	•	
51 PCB 57	TCB 292	17.36 NotFnd	*	no *	*			0.001		no	1,206	-	
52 PCB 58	290 TCB 292	17.50	:	no *	*			0.001		no	1.485	-	
53 PCB 67	290 TCB 292	NotFnd 17.59	:	no *				0.001		no	1.419	-	
54 PCB 63	290 TCB 292	NotFnd 17.76	•	no	9098	0.0	12089	0.001	48	no	1.318	-	
55 PCB 61/70/74/76	290 TCB 292	1 7. 98 18.01	4005 5093	0.79 yes				0.001	25 43	no	1.384	-	
56 PCB 66	290 TCB 292	18.20 18.24	2781 3349	0.83 yes	6129	0.0	07755	0.001	22	no	1.248	-	
57 PCB 55	290	NotFnd 18.36	*	no	*			0.001	•	no	1.286	-	
58 PCB 56	TCB 292 290	NotFnd	:	, no	•			0.001		no	1.277	-	
59 PCB 60	TCB 292 290	18.70 NotFnd	•	*	*					no	1.5	-	
60 PCB 80	TCB 292 290	18.87 NotFnd	•	no *	*			0.001			1,544	_	
61 PCB 79	TCB 292 290	19.10 NotFnd		no *	*			0.001		no		_	
	TCB 292 290	20.23 NotFnd	•	no *	*			0.001		no	1.394	_	
62 PCB 78	TCB 292 290	20.67 NotFnd	*	no *	•			0.001		no	1.02	-	
63 PCB 81	TCB 292	21.01	*	no •				0.001		no	1.016	-	
64 PCB 77	290 TCB 292	NotFnd 21.44		no *				0		no	1.194	-	•
65 PCB 104	326 PeCB 328	NotFnd 15.64	*	no *				0		no	0.819		•
66 PCB 96	326 PeCB 328	NotFnd 15.85	*	no				0.001		no	0.834		-
67 PCB 103	326 PeCB 328	NotFnd 16.98	*	no				0.001		no	0.668		-
68 PCB 94	326 PeCB 328	NotFnd 17.12	*	* no	•			0.001	35	no	0.789		-
69 PCB 95	326	17.41 17.40	2645 2052	1.29 no	469	6 0	0.009804	0.001	29	no	0.724		-
70 PCB 100/93/10	PeCB 328 2/98 326	NotFnd		no	•					no	0.739		-
71 PCB 88/91	PeCB 328 326	17.54 NotFnd	*	no	*			0.001		no	0.66		
72 PCB 84	PeCB 328 326	17.95 NotFnd	*	*	*			0.001			0.717		
73 PCB 89	PeCB 328 326		;	no *	*			0.001		no			
	PeCB 328 326	18.45	•	no *				0.001		no	0.972		-
74 PCB 121	PeCB 328 326	18.70	*	no *				0.001		no	0.75		-
75 PCB 92	PeCB 328	18.96	* 7555	no 1.34	132	14	0.025455	0.001	92 79	no	0.856	3	-
76 PCB 113/90/1	PeCB 328	19.38	5659	yes 1.9	77-	48	0.016685	0.001	60 38	no	0.76	5	-
77 PCB 83/99	326 PeCB 328	3 19.84	5075 2673	no *	,			0.001		no	0.90	7	-
78 PCB 112	320 PeCB 321	8 19.92	*	no		93	0.011108	0.001		no	0.87	4	-
79 PCB 109/119/	86/97/125/ 32 PeCB 32	6 20.25	3634 2259	1.61 yes				0.001		no	0.91	2	-
80 PCB 117/116/		6 20.90	7842 4161	1.88 no		003	0.021699	0.00	53 I	n	0.9	3	-
81 PCB 110/115	32	6 NotFnd		no		•		0.00		n	0.68	31	-
82 PCB 82	PeCB 32	6 NotFnd	*	* no		*		0.00		n	o 1.02	22	-
83 PCB 111	PeCB 32 32	6 NotFnd		•		*					o 1.0!		-
84 PCB 120	PeCB 32	26 NotFno		no *		•		0.00	1				_
85 PCB 108/124	PeCB 32		:	no *		•		0					_
	PeCB 32		•	nc *)	*		0			1.3		-
86 PCB 107	PeCB 3		*	no *)			0.00)1	,	no 0,9		•
87 PCB 123	PeCB 3	28 23.08	*	no *		•		0		1		282	-
88 PCB 106	PeCB 3		*	n 6 1.5		458 5	0.020413	0.0	D1 14		no 1.0	28	-
89 PCB 118	PeCB 3	26 23.35 28 23.33	893 564			.550			10				
	•												

								0.001	no	1.1	58 -	
90 PCB 122	326	NotFnd	* * no	*				0.001	, no	1.0	23 -	
91 PCB 114	PeCB 328 326	23.63 NotFnd	* *		•			0.001	no	1.0	24 -	
92 PCB 105	PeCB 328 326	23.82 NotFnd	* no	•	•				ne		256 -	
	PeCB 328 326	24.38 NotFnd	no	,	*			0)93 -	
93 PCB 127	PeCB 328	25.69 NotFnd	* no		•			0.001	n			
94 PCB 126	326 PeCB 328	27.22	* no)	•			0	n	-	103 -	
95 PCB 155	360 HxCB 362	NotFnd 19.26	no					0	n	-	849 -	
96 PCB 152	360 HxCB 362	NotFnd 19.40	• no	0				0	r	10 0	.77 -	
97 PCB 150	360 HxCB 362	NotFnd 19.53	* 0	0				0	r	10 0.	.816 -	
98 PCB 136	360 HxCB 362	NotFnd 19.78						0	1	no 0	.755 -	
99 PCB 145	360 HxCB 362	NotFnd 20.03	•	•				0.001		no 0	.617 -	
100 PCB 148	360	NotFnd 21.13	* r	* 10	•			0.001		no	0.6	
101 PCB 151/135	HxCB 362 360	21.63		.32 3 res		012434		0	50	no (.691 -	
102 PCB 154	HxCB 362 360	21.61 NotFnd	•	no	*		r			no (),618	-
103 PCB 144	HxCB 362 360	21.82 NotFnd		•	•					no f	0.809	_
	HxCB 362 360	22.07 NotFnd	*	no *	*			0.002			0.689	_
104 PCB 147/149	HxCB 362 360	22.36 NotFnd	*	no *	•			0.002			0.804	_
105 PCB 134/143	HxCB 362	22.61 NotFnd	*	no *	•			0.002				
106 PCB 139/140	360 HxCB 362	22.88	*	no *				0.002		no	0.649	-
107 PCB 131	360 HxCB 362	NotFnd 23.05	*	no *	*			0.002		no	0.718	-
108 PCB 142	360 HxCB 362	NotFnd 23.19	•	no *				0.002		no	0.7	•
109 PCB 132	360 HxCB 362	NotFnd 23.44		no				0.002		no	0.786	•
110 PCB 133	360 HxCB 362	NotFnd 23.86	*	no				0.001		no	0.992	-
111 PCB 165	360	NotFnd 24.22	*	no	•			0.002		no	0.895	-
112 PCB 146	HxCB 362 360	NotFnd		* no	•			0.001		no	1.015	-
113 PCB 161	HxCB 362 360	24.43 NotFnd	*	* no	*			0.001		no	0.993	-
114 PCB 153/168	HxCB 362 360	24.54 NotFnd		*	•					no	0.784	
	HxCB 362 360	25.01 NotFnd		no *	*			0.002		no	0.716	-
115 PCB 141	HxCB 362 360		*	no •	•			0.002			0.675	_
116 PCB 130	HxCB 362	25.53	*	no •	•			0.002		no		
117 PCB 137	360 HxCB 362	25.76	*	no *	•			0.001		no	1.109	_
118 PCB 164	360 HxCB 362	25.85	* 11417	no 1.17	21194	0.047182		0.002	113 96	no	0.847	-
119 PCB 138/16	3/129 360 HxCB 362	26.17	9777	yes *	•			0.001		no	0.943	-
120 PCB 160	360 HxCB 362		•	no				0.001		no	1.103	- '
121 PCB 158	366 HxCB 365) NotFnd		no				0.001		no	0.934	-
122 PCB 128/16		0 NotFnd		no		4		0		no	1.254	-
123 PCB 159	36 HxCB 36	0 NotFnd	•	no	•			0		no	1.204	•
124 PCB 162	36	0 NotFnd		no	•	•		0		no	1.103	-
125 PCB 167	HxCB 36	NotFnd	*	* no	*			. 0		no	1.047	-
126 PCB 156/1	HxCB 36	NotFnd	:	no	*			0.001		no	1.04	-
127 PCB 169	HxCB 36	80 NotFnd	*	•	•					no	1.069	-
	HxCB 3	62 33.58 94 NotFnd	*	no *	•			0		no	1.122	
128 PCB 188	HpCB 3		*	no *	*			0			1.054	_
129 PCB 179	НрСВ 3	96 24.09	*	no *	•			0		no		_
130 PCB 184	HpCB 3	96 24.57	*	no *	*			0		no	1.032	
131 PCB 176	HpCB 3	396 24.87	•	no *				0		no	0.965	
132 PCB 186	HpCB 3	394 NotFnd 396 25.28	•	no *				0.00	1	no	0.77	
133 PCB 178	HpCB	394 NotFno		no *				0.00	1	no	0.803	3 -
134 PCB 175		394 NotFno	*	no		7 0.016997		0.00	1 76	no	0.814	1 -
135 PCB 187	•	394 27.42	3748 3 72 8	1 yes	747	, 0.010397		0.00	183 1	no	0.79	7 -
136 PCB 182		394 NotFn		no	*							

							0	.001	no	1.01	-	
137 PCB 183	394	NotFnd	•	*	*			.002	no	0.813	-	
138 PCB 185	HpCB 396 394	27.99 NotFnd	•	no *	•				no	0.901		
	HpCB 396 394	28.08 NotFnd	•	no *	*			.002		0.878		
139 PCB 174	HpCB 396 394	28.24 28.67	* 1623	no 1.09	3117	0.00657	С	,002 1° 2'	7	0.88		
140 PCB 177	HpCB 396	28.65 NotFnd *	1493	yes	•		C	0.002	no			
141 PCB 181	394 HpCB 396	29.06		no *			().002	по	0.85		
142 PCB 171/173	394 HpCB 396	NotFnd 29.28		no *				0.002	no	0.86		
143 PCB 172	394 HpCB 396	NotFnd 30.93	*	no				0.001	no	1.0	· -	
144 PCB 192	394 HpCB 396	NotFnd 31,24	•	no	6222	0.010931			18 no	1.17	2 -	
145 PCB 193/180	394 HpCB 396	31.63 31.59	3306 2916	1.13 yes	0222	0.01000		0.001	\$5 . no	1.10	36 -	
146 PCB 191	394 HpCB 396	NotFnd 31.97	*	no	•			0.002	no	1.1	71 -	
147 PCB 170	394	NotFnd 32.94	•	no	•			0.001	n	1.1	65 -	
148 PCB 190	HpCB 396 394	NotFnd	*	* no	*			0	n	0.9	22 -	
149 PCB 189	HpCB 396 394	33.50 NotFnd	*	no no	•			0.00443	* n	o 1.0	31 -	
150 PCB 202	HpCB 396 428	36.35 NotFnd	•	*	•	-0,00443			*	o 1.0	178 -	
151 PCB 201	OcCB 430 428	28.80 NotFnd		no *	•	-0,00424		-0.00424	•		06 -	
	OcCB 430 428	29.72 NotFnd	•	no *	•	-0.00431		-0.00431	•		082 -	5.19 #4.5 \$4.5
152 PCB 204	OcCB 430 428	30.41		no •		-0.00422		-0.00422	•		016 -	
153 PCB 197	OcCB 430	30.64	:	no •	•	-0.0045		-0.0045	•			
154 PCB 200	428 OcCB 430	30.75	+ 1521	no 0.79	3444	0.008305		-0.00588	4		777 -	
155 PCB 198/199	428 OcCB 430	33.69	1922	yes •		-0.00558		-0.00558			819 -	
156 PCB 196	428 OcCB 430	34.40	•	no *	•	-0.00554		-0,00554	•		.825 -	
157 PCB 203	428 OcCB 430	34.60	•	no .		-0.0022		-0,0022	•	no C	.931 -	
158 PCB 195	428 OcCB 439	8 NotFnd		no	4006	0.003304		-0.00213	22.02.02.00.00	yes (.962	•
159 PCB 194	0cCB 43	8 38.69	855 841	1.02 yes	1696	-0.00206		-0.00206	4	no (),992	•
160 PCB 205	42 OcCB 43	8 NotFnd	*	no				0.002	14	no	1.042	-
161 PCB 208	46	2 35.80	1252 2173	0.58 no	3425	0.006538		0.002	9	no	1.302	-
162 PCB 207	NoCB 46	2 NotFno		* no	*			0.002	13	no	1.017	-
163 PCB 206	NoCB 46 46	2 41.19	1692 1778	0.95 no	3471			0	9 128	no	1.026	-
164 PCB 209		98 43.06	2607 2320	1,12 yes	4928	8 0.014196		0.004	90 861	no	0.997	40
165 PCB 1L	DCB 50 20	00 8.82	50558	3.1	6686	9 0.079669		0.004	23 800	no	1.05	39
166 PCB 3L		02 8.82 00 10.00	16310 4995 5	2.73	6824	47 0.077196			23 73	no	0.464	43
		02 9.99 34 10.11	18292 1994 1	1.47	3354	48 0.085821		0.004	303	no	1,168	56
167 PCB 4L	2	36 10.10 34 12.70	13607 6 7770		1102	246 0.112147		0.002	181 269		0.536	53
168 PCB 15L	2	36 12.69 268 11.48			482	22 0.106908		0.007	49 45	no	1.848	79
169 PCB 19L	2	270 11.47	2208		1362	254 0.158128		0.004	85 121	no		62
170 PCB 37L	2	270 16.35	6865	9 yes		0.124602		0.001	175 603	no	0.802	96
171 PCB 54L	;	302 12.82 304 12.82	2649	2 yes		472 0.192603		0.002	207 512	no	1.597	
172 PCB 81L		302 20.99 304 20.9	7 7912	5 yes		305 0.203225		0.001	212 518	no	1.607	102
173 PCB 77L		302 21.4 304 21.4	2 8443	g yes	3	046 0.169088		0	1362 1249	no	0.912	85
174 PCB 104L		338 15.6 340 15.6	5 263	46 yes	5	9112 0.2023		0.001	583 765	no	1.581	101
175 PCB 123L		338 23.0 340 23.0	4 542	39 ye:	s	8919 0.211548		0.001	569	no	1.51	106
176 PCB 118L		338 23.3 340 23.3	3 841 3 547	70 ye:	s			0.001	745 54 2	no	1.471	99
177 PCB 114L	•	338 23.8 340 23.8	30 787	40 1.6 12 ye	s	6952 0.198396		0.001	663 569	no	1.488	104
178 PCB 105L		338 24.3	35 832	13 1.6	5	4477 0.207723		0.001	691 468	no	1.44	97
179 PCB 126L	_	338 27.	19 725	507 1.	.5 12 es	0.192963		0	631 2 948	no	1.01	94
180 PCB 155l		340 27. 372 19.	24 479	988 1.3	27 8 es	5750 0.188313		0.001	2380	no	1.424	98
181 PCB 167		374 19. 372 29.	01 71	166 1.	31 12	25563 0.195632		0.00	403	no	1.495	99
182 PCB 156		374 29. 372 30.	17 148	3497 1.		67635 0.397303	i		699	no	1,518	58
		374 30	.55 43	228 1.		78847 0.115261	l	0.00	234			
183 PCB 169	_		.54 35	619 y	es							

										0.001	943	no	1.142	104
				23.78	57321	1.14	107379	0.208539			798			
	184 F		106		50058	yes					474	no	1.343	94
			108	23.78		1.12	97127	0.187954				110		
	185 [CB 180L 4	106	31.59	51407		U				189		1.141	96
	100 .	4	108	31.58	45719	yes	84092	0.191442			378	no	1.141	00
	400	CB 170L 4	106	32.90	41737	0.99	84092	0,131772			1089		4 000	97
	100 1	-CB 110L	108	32.89	42355	yes				0.002	354	no	1.923	97
			406	36.31	73678	1.05	143559	0.193978			430		n salah sama kana ka	er const
	187		408	36.29	69881	yes		and the second control of the second	90960-290 SVSQC4985V	0	2632	no	1.353	99
		The second secon	440	28.77	47229	0.85	102857	0.197548			2305			
	188			28.76	55629	yes				0.001	589	no	1.424	101
			442		55104	1	110447	0.201549		0.001	726			
-000	189		440	39.19		yes					1114	no	1.309	100
			442	39.19	55343		100505	0,199455		0.001		110	1.000	
	100	PCB 208L	474	35.77	42672	0.74	100505	0,100101			537		0.924	101
	130	FOB 2002	476	35.79	57833	yes		0.202536		0.001	767	no	0.924	101
			474	41.17	31830	0.79	71984	0.202536			356			400
	191		476	41.20	40154	yes				0	1374	no	0.828	106
			510	43.04	36474	1.17	67609	0.212084		=	1818			
	192			43.06	31135	ves				0.004	100	no	1.969	69
			512		71867	1.06	139656	0.152096		0.004	135			
	193		268	14.13						_		no	1.373	94
		PCB Cleanup Standard	270	14.13	67789	yes	125001	0.209301		0	1462	110	1.010	
	104	PCB 111L	338	21.42	77024	1.61	125001	0,2000			1110		0.722	104
	154	PCB Cleanup Standard	340	21.41	47977	yes		0.231601		0.001	586	no	0.732	107
			406	26.53	38879	1.03	76443	0.231601			1253			
	195	PCB 178L PCB Cleanup Standard		26.52	37564	yes				0.004		no	1.878	
			268	NotFnd	*	*	*			0.00				
	196	PCB 31L		13.98	*	no				0.001		no	0.916	
		PCB Audit Standard	270			*	*			0.001				
	197	PCB 95L	338	NotFnd		no					40	no	1.173	2
		PCB Audit Standard	340	17.40			2926	0.005536		0.001	13	110	1.170	
	109	PCB 153L	372	24.98	1514	1.07	2920	0.000000			- 18			_
	190	PCB Audit Standard	374	24.98	1412	yes		0.040040		-	1595	no	-	-
			234	10.99	571704	1.58	934629	2.319042			2453			
	199	PCB 9L		11.00	362925	yes				_	1247	no	-	-
		PCB Recovery Standard	302	15.07	230315	0.8	517871	2.311123			3296			
	200	PCB 52L		15.05	287557	yes					5884	no	-	-
		PCB Recovery Standard	1 304		296089	1.58	483075	2.373741		-	4590			
	201	PCB 101L	338	19.40		ves						no	_	_
		PCB Recovery Standard	340	19.36	186985		500488	2,41249		-	2812	110		
	201	PCB 138L	372	26.10	281339	1.28	500460	2.71273			3529			
	20,	PCB Recovery Standard	1 374	26.07	219149	yes		- 00740F		-	2322	no	-	-
		PCB Recovery Standard	440	38.65	207873	0.95	427374	2.287425			2827			
	20	3 PCB 194L		38.59	219501	yes								
		PCB Recovery Standard	u 442	00.00		-			0	-0.001				
								-0.001		-0.008				
		Chlorobiphenyls						-0.008	0					
		Dichloroblphenyls						0.010525	2	-0.005				
		Trichlorobiphenyls						0.051345	6	-0.002				
		Tetrachlorobiphenyls						0.105164	6	-0.001				
		Pentachlorobiphenyls							2 .	-0.002				
		1)bloroblobervis						0.059616	3	-0,002				
		Hexachioroblphenyls						0.034498	2	-0.00588				
		Heptachlorobiphenyls						0.011609	2	-0.002				
		Octachlorobiphenyls						0.016019						
		Nonachlorobiphenyls						0.014196	1	0				
		Decachlorobiphenyl						0.302972						
		PCB (total)						0.3020.						
		. 55 (55-1)												

*Acquired Date

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Printed: Monday, June 12, 2017 9:58:16 AM

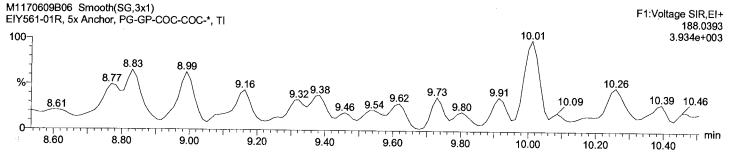
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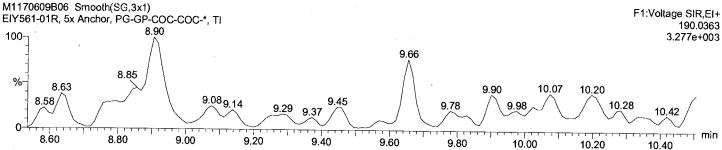
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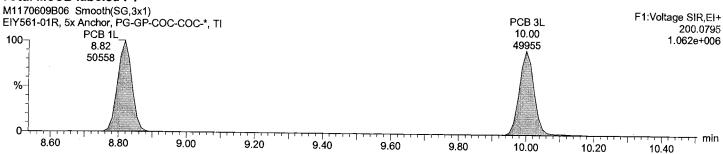
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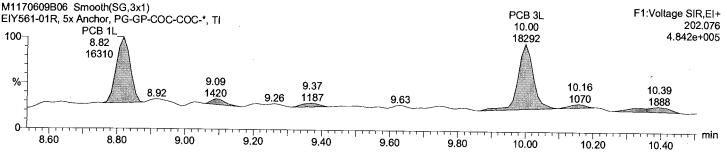




Total MoCB labeled F1



Total MoCB labeled F1



Acquired Date

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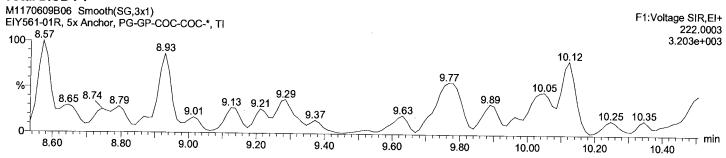
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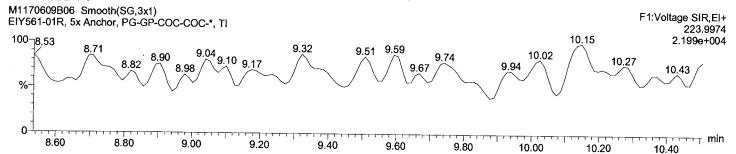
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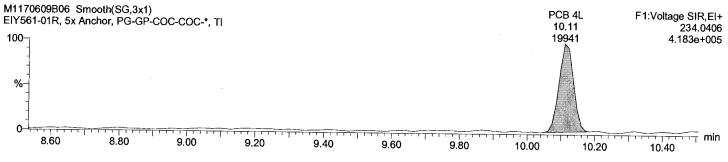




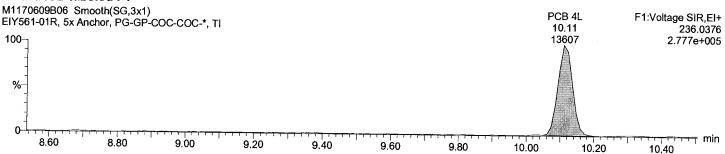
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Total DiCB labeled F1



Total DiCB labeled F1



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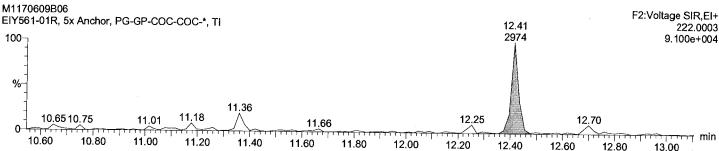
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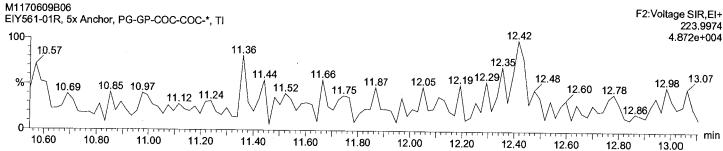
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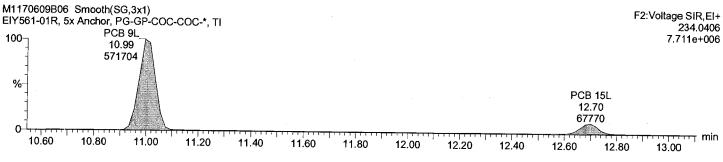




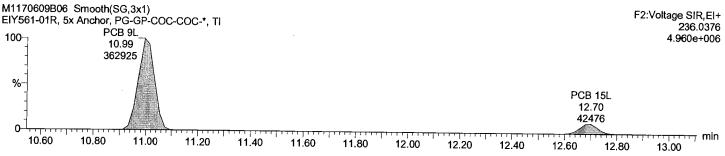
Total DiCB F2



Total DiCB labeled F2



Total DiCB labeled F2



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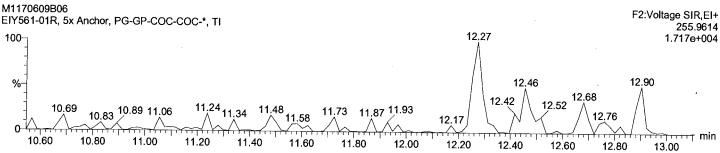
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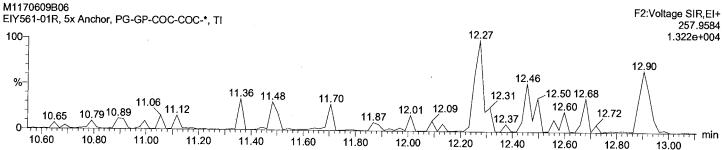
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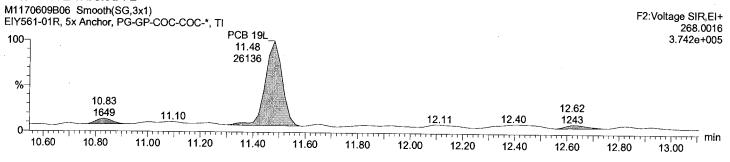




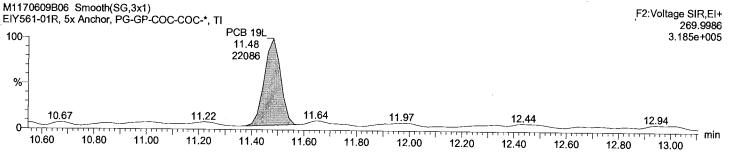
Total TriCB F2



Total TriCB labeled F2



Total TriCB labeled F2



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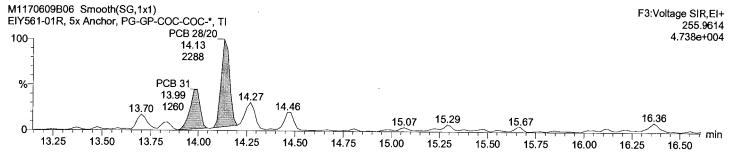
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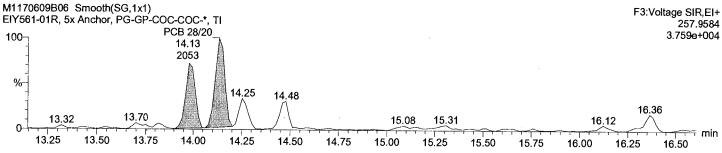
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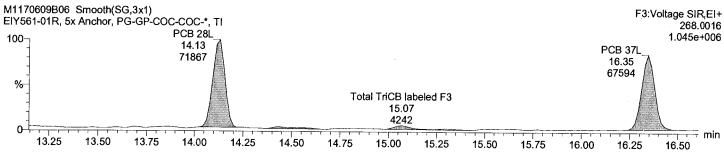
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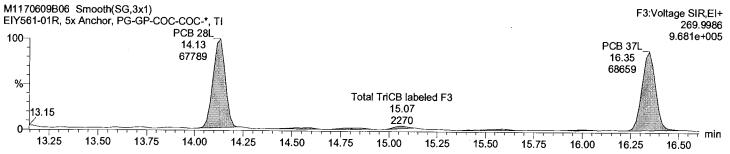
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



Acquired Date

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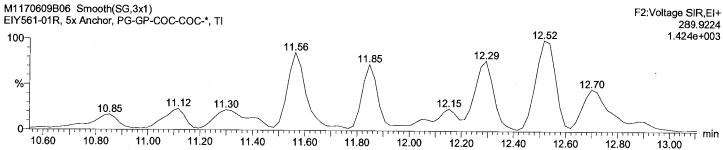
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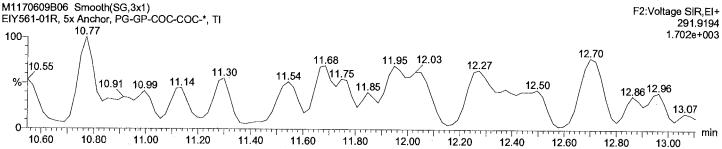
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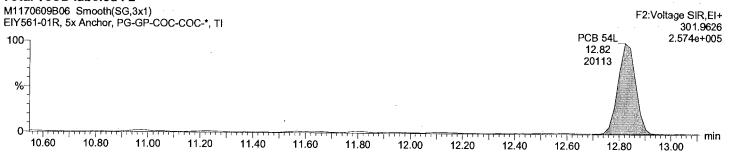
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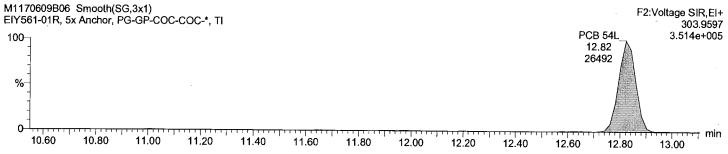
Total TeCB F2



Total TeCB labeled F2



Total TeCB labeled F2



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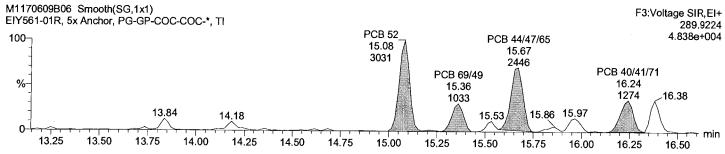
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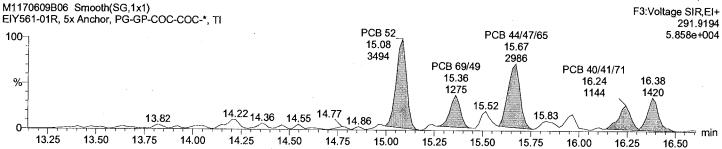
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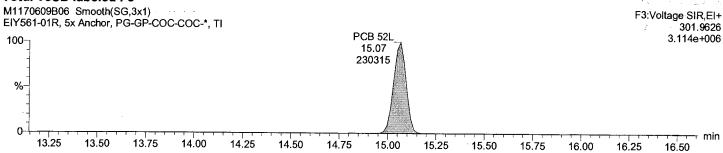
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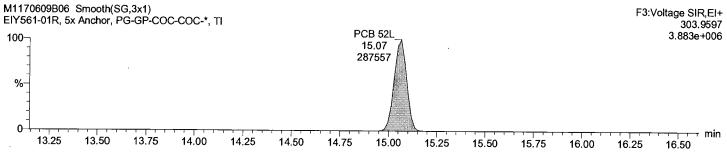
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Total TeCB labeled F3



Total TeCB labeled F3



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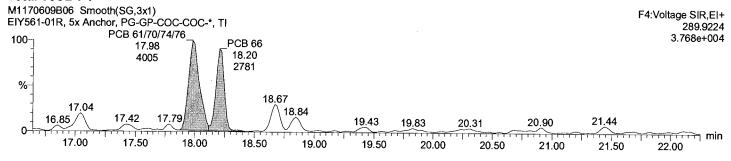
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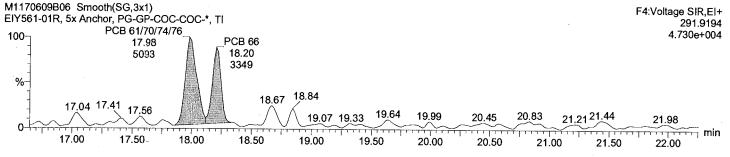
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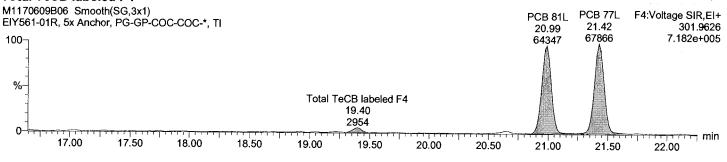
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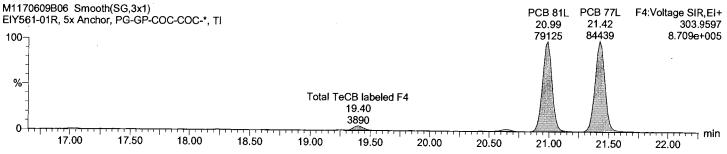
Total TeCB F4



Total TeCB labeled F4



Total TeCB labeled F4



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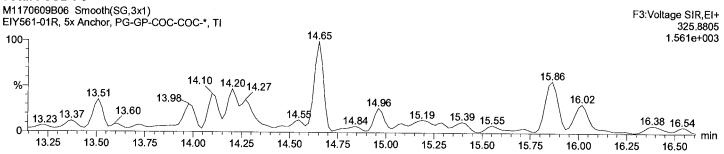
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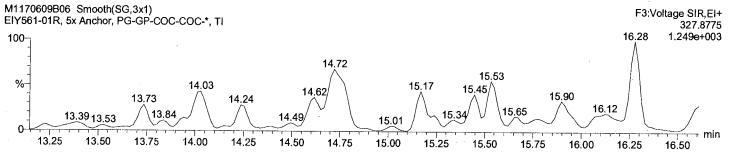
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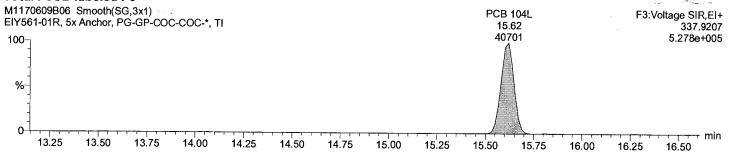
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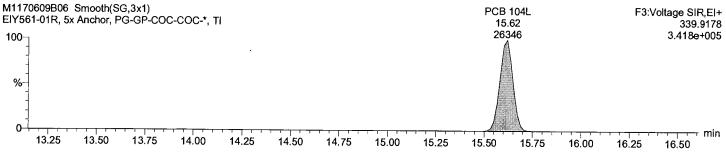
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Total PeCB labeled F3



Total PeCB labeled F3



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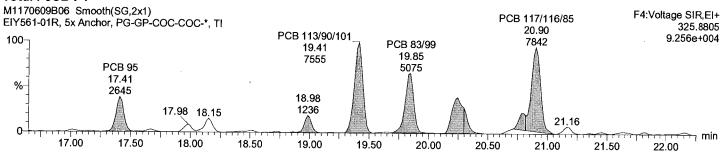
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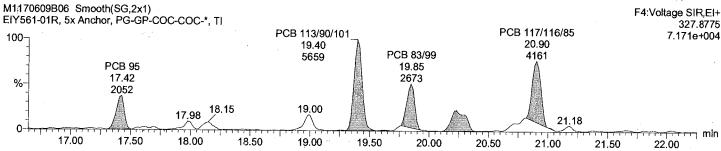
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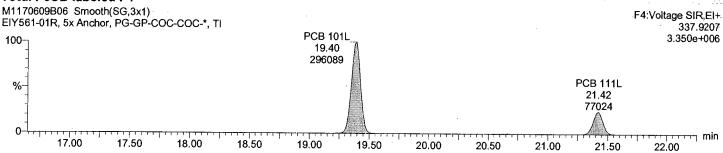
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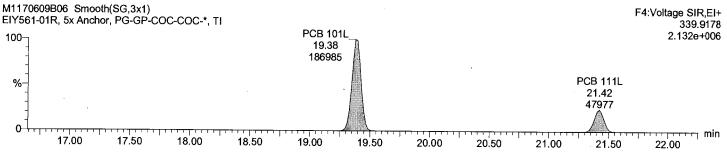
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Total PeCB labeled F4



Total PeCB labeled F4



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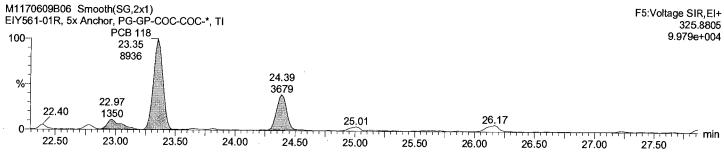
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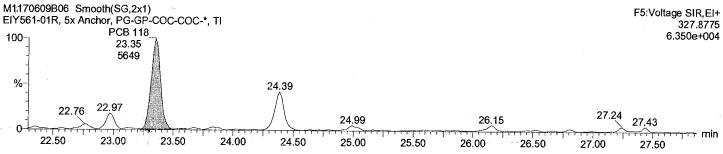
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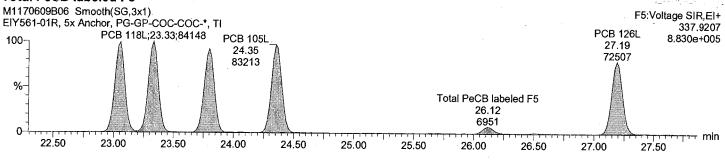
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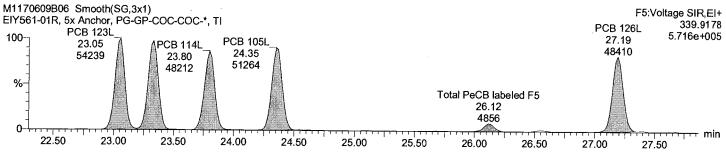
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Total PeCB labeled F5



Total PeCB labeled F5



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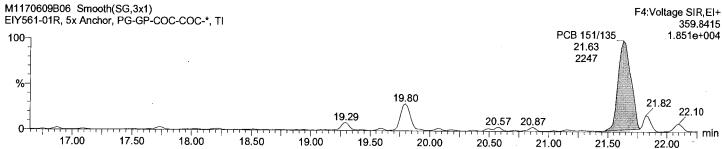
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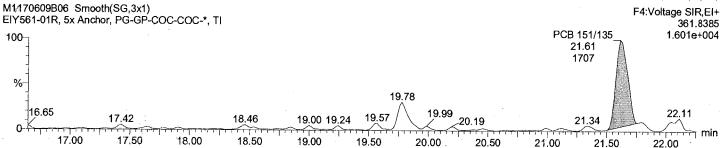
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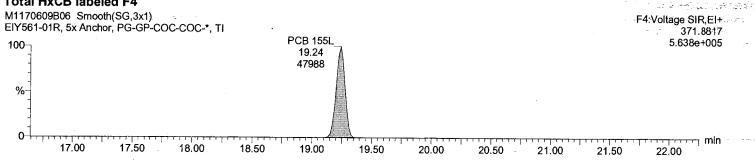
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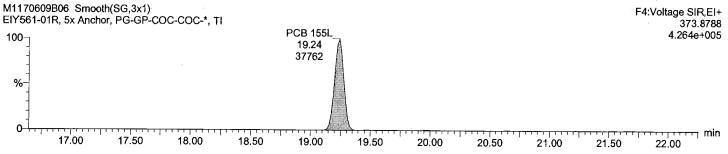
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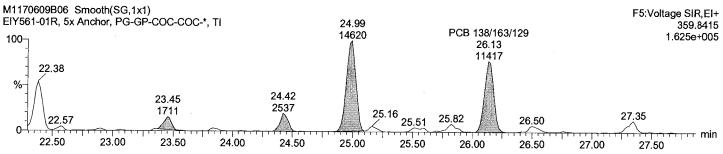
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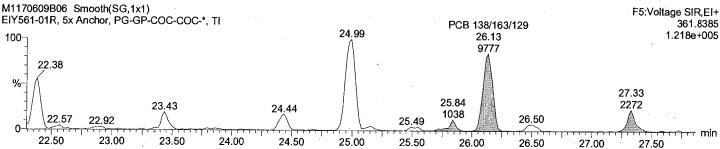
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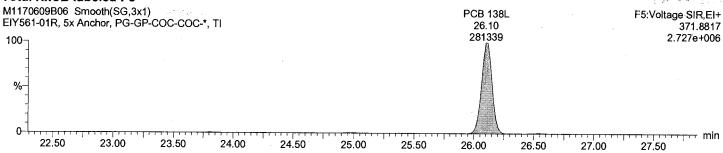


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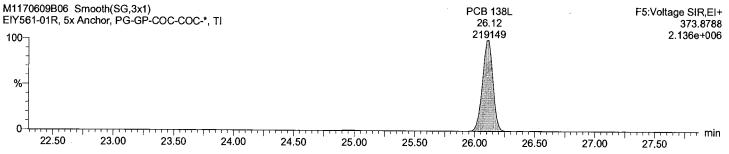


Total HxCB labeled F5

F.



Total HxCB labeled F5



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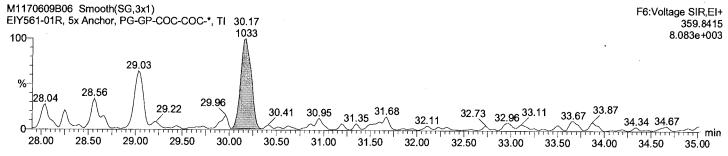
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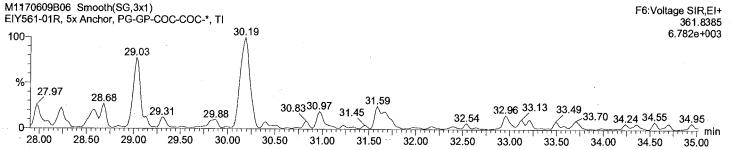
Vial: 6

Date: 09-Jun-2017 Time: 22:51:57 Instrument:

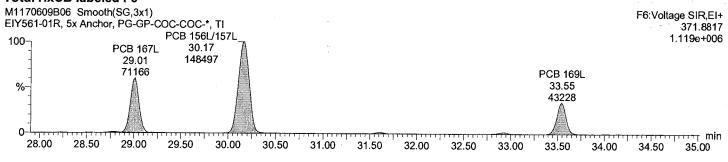
Total HxCB F6



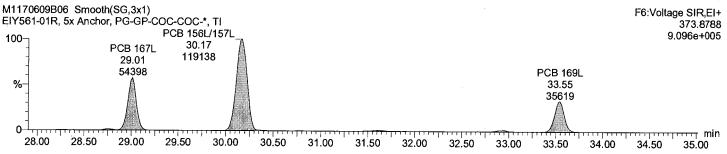
Total HxCB F6



Total HxCB labeled F6



Total HxCB labeled F6



Acquired Date

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Dataset:

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Last Altered:

Monday, June 12, 2017 9:57:29 AM

Printed:

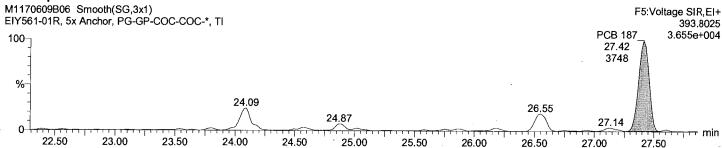
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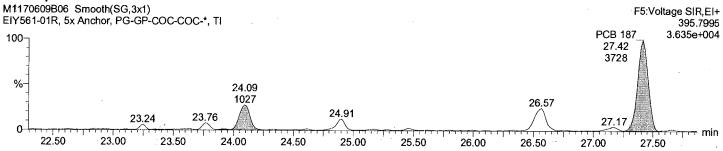
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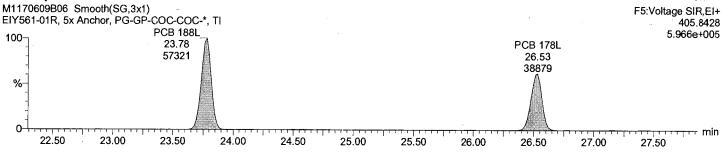
Total HpCB F5



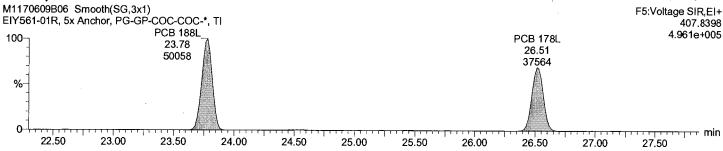
Total HpCB F5



Total HpCB labeled F5



Total HpCB labeled F5



Dataset:

Acquired Date

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Monday, June 12, 2017 9:57:29 AM Monday, June 12, 2017 9:58:16 AM

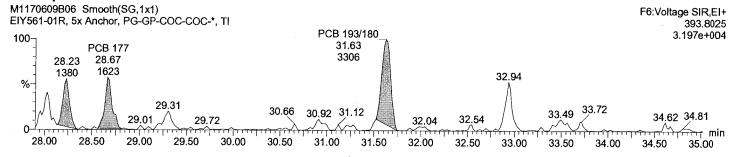
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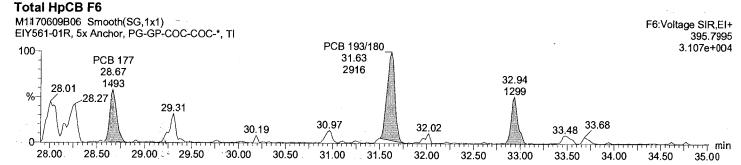
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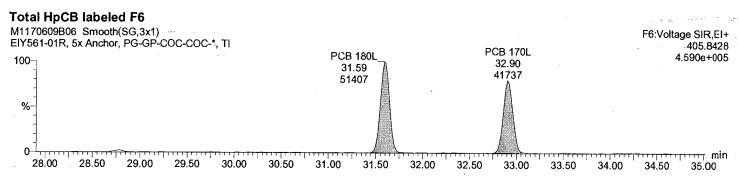
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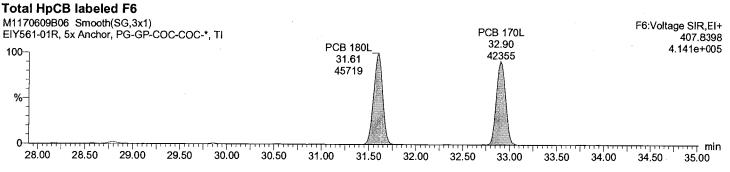
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Total HpCB F6









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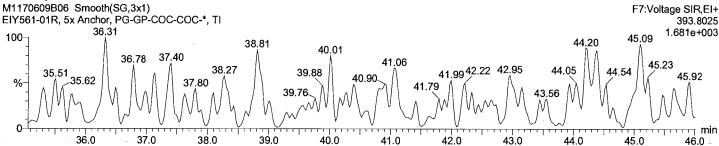
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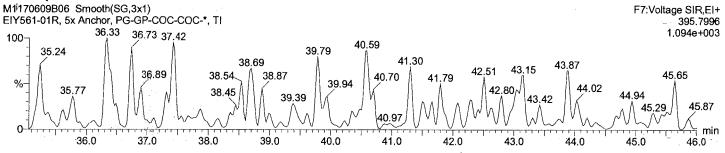
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Date: 09-Jun-2017 Time: 22:51:57 Instrument:

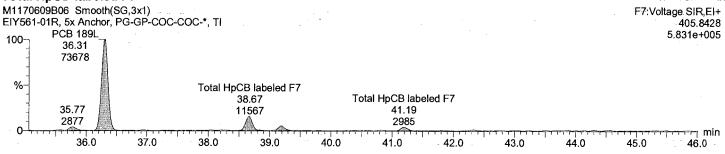




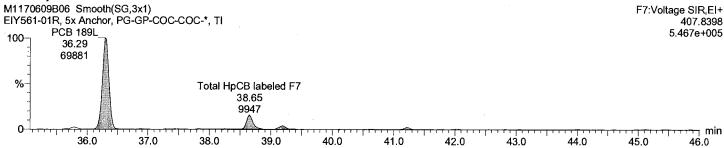
Total HpCB F7

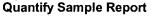


Total HpCB labeled F7



Total HpCB labeled F7





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Dataset:

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Last Altered:

Monday, June 12, 2017 9:57:29 AM

Printed:

Monday, June 12, 2017 9:58:16 AM

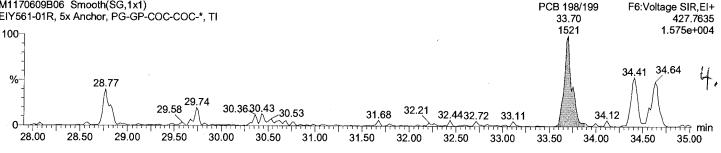
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Vial: 6

Date: 09-Jun-2017 Time: 22:51:57 Instrument:

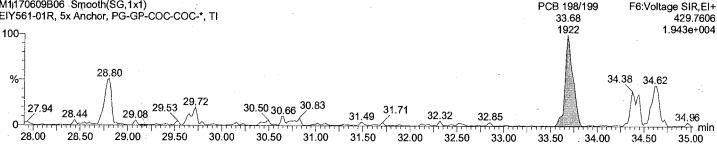


M1170609B06 Smooth(SG,1x1) EIY561-01R, 5x Anchor, PG-GP-COC-COC-*, TI



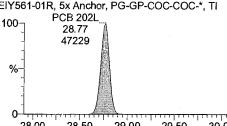
Total OcCB F6

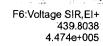
M1/170609B06 Smooth(SG,1x1) EIY561-01R, 5x Anchor, PG-GP-COC-COC-*, TI

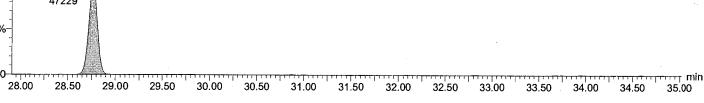


Total OcCB labeled F6

M1170609B06 Smooth(SG,3x1) EIY561-01R, 5x Anchor, PG-GP-COC-COC-*, TI

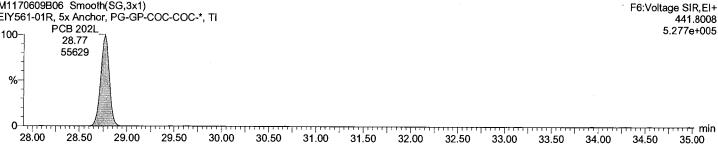






Total OcCB labeled F6

M1170609B06 Smooth(SG,3x1) EIY561-01R, 5x Anchor, PG-GP-COC-COC-*, TI



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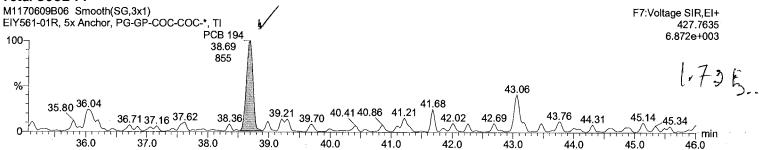
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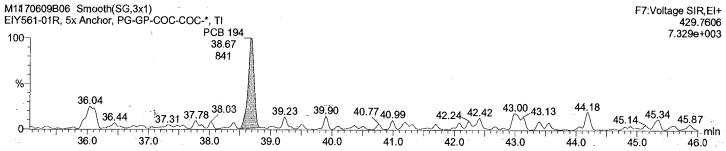
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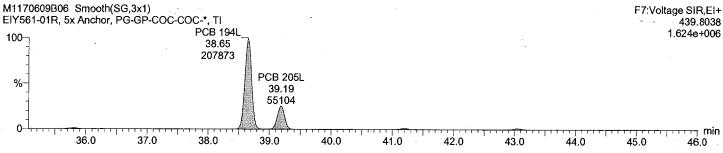




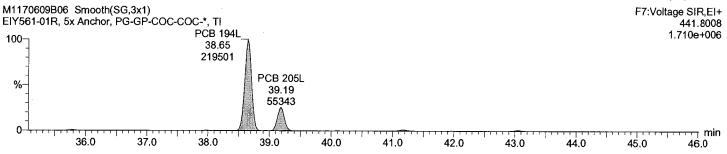
Total OcCB F7



Total OcCB labeled F7



Total OcCB labeled F7



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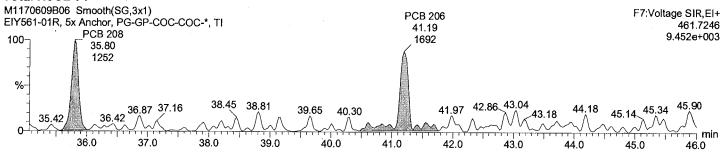
Monday, June 12, 2017 9:57:29 AM Monday, June 12, 2017 9:58:16 AM

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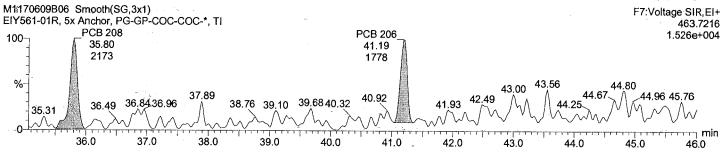
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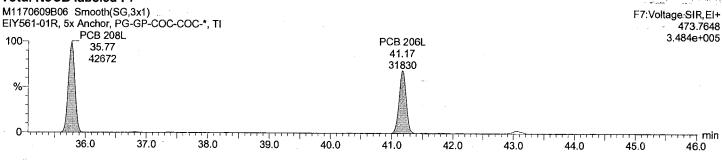




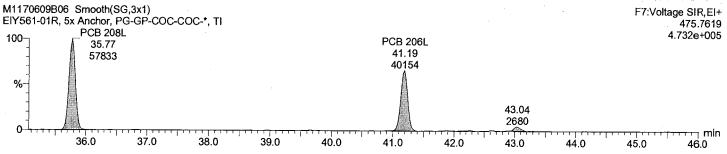
Total NoCB F7



Total NoCB labeled F7



Total NoCB labeled F7



Dataset:

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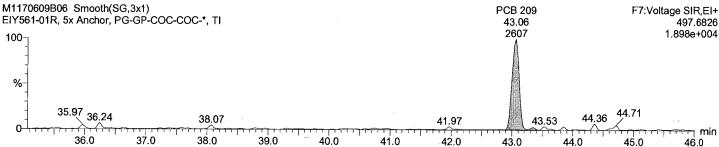
Monday, June 12, 2017 9:57:29 AM Monday, June 12, 2017 9:58:16 AM

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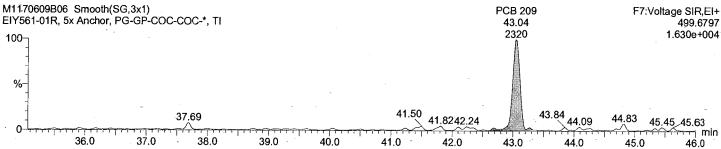
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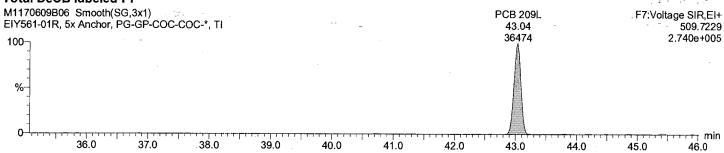




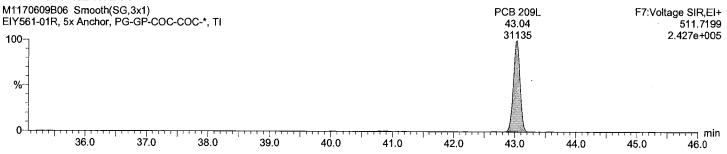
Total DeCB F7



Total DeCB labeled F7



Total DeCB labeled F7



Dataset:

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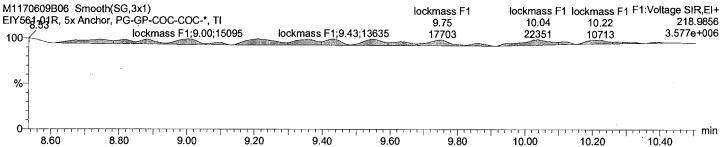
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Description: EIY561-01R, 5x

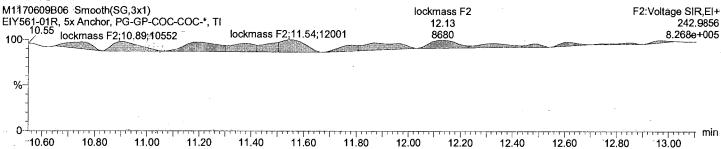
Vial: 6

Date: 09-Jun-2017 Time: 22:51:57 Instrument:

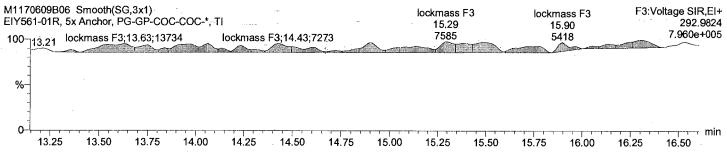




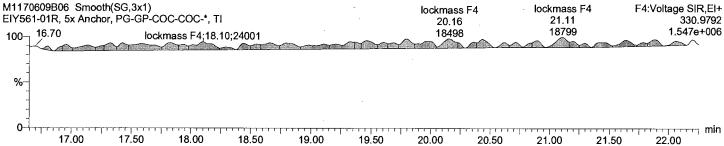
lockmass F2



lockmass F3



lockmass F4



Dataset:

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Monday, June 12, 2017 9:57:29 AM

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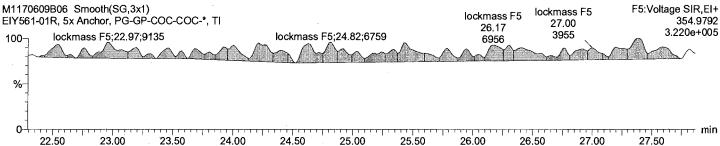
Monday, June 12, 2017 9:58:16 AM

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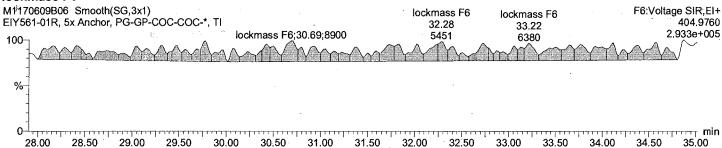
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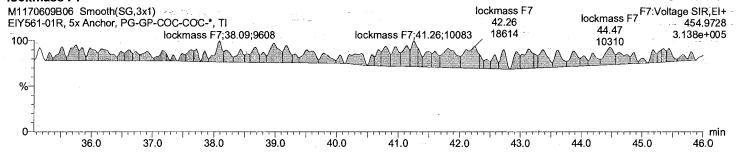








lockmass F7



Filename M1170609B07 Acquired 06/09/2017 23:42

Call File PCB209_M1170609B

Sample ID EIY562-01R, 5x Comments Instrument File Ultima 1 Sample Size 10.041

DII Fac 1.00

								Isomers					
Name 1 PCB 1	mass 188	RT NotFnd	Area *	ratio *	Tot Area	ng/g	Code		DL 0.001	S/N	Mod no	rrf 1.053	Rec
2 PCB 2	MoCB 190	8.81	:	no									
	188 MoCB 190	NotFnd 9.92	*	no	-				0.001		по	1.198	-
3 PCB 3	188 MoCB 190	NotFnd 10.01	:	по	•				0.001		no	1.055	-
4 PCB 4	222	NotFnd	:	*	*				0.004		no	1.191	-
5 PCB 10	DICB 224 222	10.12 NotFnd	•	no *	*				0.002		no	1.156	-
6 PCB 9	DICB 224 222	10.21 NotFnd	:	no *					0.007		no	1.544	_
7 PCB 7	DICB 224 222	11.01 NotFnd	•	no									
	DICB 224	11.09	•	no	_				0.007		по	1.399	-
8 PCB 6	222 DiCB 224	NotFnd 11.19	:	no	•				0.007		no	1.424	-
9 PCB 5	222 DICB 224	NotFnd 11.31	:	•	*				0.007		no	1.462	-
10 PCB 8	222	NotFnd	•	no *	. *				0.007		по	1.443	-
11 PCB 14	DICB 224 222	11.38 NotFnd	*	no *					0.007		no	1.506	_
12 PCB 11	DiCB 224 222	12.03 12.41	3123	no 0.8	7037	0.016242			0.007	32			
	DICB 224	12.40	3914	no		0.010242				3	no	1.42	-
13 PCB 13/12	222 DICB 224	NotFnd 12.54	*	no	•				0.007		no	1.443	-
14 PCB 15	222 DiCB 224	NotFnd 12.68	*	no	•				0.009		no	0.956	-
15 PCB 19	256	NotFnd	:	*	*				0.004		по	1.06	-
16 PCB 30/18	TriCB 258 256	11.48 12.27	2727	no 1.2	4995	0.012451			0.002	33	no	1.033	_
17 PCB 17	TriCB 258 256	12.27 NotFnd	2268	no *					0.003	51	no	0.838	
18 PCB 27	TriCB 258 256	12.48 NotFnd	*	no *									
	TriCB 258	12.56	*	no					0.002		no	1.164	•
19 PCB 24	256 TrlCB 258	NotFnd 12.61	:	no	•				0.002		по	1.35	-
20 PCB 16	256 TriCB 258	NotFnd 12.69	:	* no	•				0.004		no	0.606	-
21 PCB 32	256	NotFnd	•	•	•				0.002		no	1.334	-
22 PCB 34	TrICB 258 256	12.90 NotFnd	:	no *	•				0.001		no	1.427	-
23 PCB 23	TrlCB 258 256	13.48 NotFnd	:	no *					0.001		no	1.32	_
24 PCB 26/29	TrlCB 258 256	13.56 NotFnd	:	no *									-
	TriCB 258	13.72	*	no					0.001		по	1.443	•
25 PCB 25	256 TriCB 258	NotFnd 13.85		no	*				0.001		no	1.389	-
26 PCB 31	256 TriCB 258	13.98 14.01	1483 1108	1.34 no	2592	0.004372			0.001	32 11	no	1.527	-
27 PCB 28/20	256	NotFnd	*	*	•				0.001		no	1.441	-
28 PCB 21/33	TriCB 258 256	14.16 14.25	1783	no 1	3562	0.006596			0.001	40	no	1.391	-
29 PCB 22	TrICB 258 256	14.27 NotFnd	1780 *	yes *					0.001	16	по	1.357	_
30 PCB 36	TrICB 258 256	14.47 NotFnd	*	no *									
	TrlCB 258	15.30	•	no					0.001		по	1.632	•
31 PCB 39	256 TriCB 258	NotFnd 15,50	:	no	•				0.001		по	1.448	-
32 PCB 38	256 TriCB 258	NotFnd 15.87	*	• no	*				0.001		no	1.474	-
33 PCB 35	256 TriCB 258	NotFnd 16.10	*	*	•				0.001		no	1.4	-
34 PCB 37	256	NotFnd	•	no *	*				0.001		no	0.951	_
35 PCB 54	TriCB 258 290	16.36 NotFnd	*	no *					0.001		по	1.071	_
36 PCB 53/50	TCB 292 290	12.82 NotFnd	*	no •					0.008				
	TCB 292	13.86	*	no							no	0.861	-
37 PCB 45/51	290 TCB 292	NotFnd 14.21	*	no	*				0.008		no	0.832	-
38 PCB 46	290 TCB 292	NotFnd 14.35	*	* no	•				0.01		no	0.718	-
39 PCB 52	290	15.07	4691	0.67	11655	0.199574			0.007	109	no	0.961	-
40 PCB 73	TCB 292 290	15.05 NotFnd	6964	yes *	*				0.007	83	no	1.012	-
41 PCB 43	TCB 292 290	15,14 NotFnd	:	no *					0.009		no	0.787	_
42 PCB 69/49	TCB 292 290	15.21 15.34	1242	no 0.75	2891	0.04992			0.007	29		0.953	_
	TCB 292	15.34	1649	yes		-10-100L			0.001	18	по	0.000	-

43 PCB 48	290	15.52	1646	0.98	3327	0.064551	800.0	33	no	0.848	-
44 PCB 44/47/65	TCB 292 290	15.50 15.64	1681 1771	no 0.89	3754	0.067385	0.008	19 27	no	0.917	_
4E DOD E0/00/7E	TCB 292	15.64	1984	no				15			
45 PCB 59/62/75	290 TCB 292	NotFnd 15.84		no	-		0.006		no	1.12	-
46 PCB 42	290	NotFnd	•	•	•		0.01		no	0.728	-
47 PCB 40/41/71	TCB 292 290	15.94 NotFnd		no *			0.008		по	0.85	-
40 DOD 04	TCB 292	16.23	*	no							
48 PCB 64	290 TCB 292	NotFnd 16.37	•	no	•		0.006		no	1.079	-
49 PCB 72	290	NotFnd	•	*	*		0.003		no	1.426	-
50 PCB 68	TCB 292 290	16.89 NotFnd	*	no *	•		0.003		no	1.39	-
54 DOD 57	TCB 292	17.07	*	no *							
51 PCB 57	290 TCB 292	NotFnd 17.35	*	no	-		0.003		no	1.359	-
52 PCB 58	290 TCB 292	NotFnd 17.49	•	*	•		0.004		no	1.206	-
53 PCB 67	290	NotFnd	*	no *	*		0.003		no	1.485	-
54 PCB 63	TCB 292 290	17.58 NotFnd	*	no •			0.003			1.419	
	TCB 292	17.75	•	no			0.003		no	1.410	-
55 PCB 61/70/74/7	6 290 TCB 292	17.98 18.00	3052 3968	0.77 yes	7020	0.087619	0.003	52 48	no	1.318	-
56 PCB 66	290	NotFnd	*	*	*		0.003	40	no	1.384	-
57 PCB 55	TCB 292 290	18.23 NotFnd	:	no *			0.004		no	1,248	_
	TCB 292	18.35		no							
58 PCB 56	290 TCB 292	NotFnd 18.69		no	•		0.003		no	1.286	-
59 PCB 60	290	NotFnd	*	*	*		0.003		no	1.277	-
60 PCB 80	TCB 292 290	18.86 NotFnd	• •	no *	ď.		0.003		no	1.5	-
04 808 70	TCB 292	19.09	*	no							
61 PCB 79	290 TCB 292	NotFnd 20.22		no	-		0.003		no	1.544	-
62 PCB 78	290 TCB 292	NotFnd	:	*	*		0.003		no	1.394	-
63 PCB 81	290	20.66 NotFnd	•	no *	*		0.309		no	1.02	-
64 PCB 77	TCB 292 290	21.00 NotFnd	*	no *			0.666			1.016	
04 PCB //	TCB 292	21.38	•	no			0.666		по	1.016	-
65 PCB 104	326 PeCB 328	NotFnd 15.62		* no	•		0		no	1.194	-
66 PCB 96	326	NotFnd	•	•	•		0		no	0.819	-
67 PCB 103	PeCB 328 326	15.84 NotFnd	*	no *			0.001		по	0.834	_
	PeCB 328	16.96	*	no					110		
68 PCB 94	326 PeCB 328	NotFnd 17.10		no	*		0.001		no	0.668	-
69 PCB 95	326	NotFnd	*	*	•		0.001		no	0.789	-
70 PCB 100/93/102	PeCB 328 /98 326	17.38 NotFnd	*	no *			0.001		no	0.724	_
74 DOD 00/04	PeCB 328	17.52	*	no							
71 PCB 88/91	326 PeCB 328	NotFnd 17.93		no	·		0.001		no	0.739	-
72 PCB 84	326 PeCB 328	NotFnd 18,10		*	*		0.001		no	0.66	-
73 PCB 89	326	NotFnd	*	no *	•		0.001		по	0.717	-
74 PCB 121	PeCB 328 326	18.43 NotFnd	•	no *			0.001		DO	0.972	
	PeCB 328	18.68	*	no					no	0.912	-
75 PCB 92	326 PeCB 328	NotFnd 18.94	*	* no	•		0.001		no	0.75	-
76 PCB 113/90/101	326	NotFnd	*	*	*		0.001		no	0.856	-
77 PCB 83/99	PeCB 328 326	19.36 NotFnd	*	no •	*		0.001		no	0.765	_
	PeCB 328	19.82		no							
78 PCB 112	326 PeCB 328	NotFnd 19.89	•	no	•		0.001		no	0.907	-
79 PCB 109/119/86		NotFnd		*	•		0.001		no	0.874	-
80 PCB 117/116/85		20.19 NotFnd	*	no *	•		0.001		по	0.912	-
81 PCB 110/115	PeCB 328 326	20.74 NotFnd	*	no *			0.001			0.93	
	PeCB 328	20.86	•	no					no		-
82 PCB 82	326 PeCB 328	NotFnd 21.13		* no	•		0.001		no	0.681	-
83 PCB 111	326	NotFnd	*	*	*		0.001		no	1.022	-
84 PCB 120	PeCB 328 326	21.42 NotFnd	:	no *	*		0.001		no	1.091	
	PeCB 328	21.78	*	no							-
85 PCB 108/124	326 PeCB 328	NotFnd 22.77	*	no	*		0		no	1.201	-
86 PCB 107	326	NotFnd	*	*	•		0		no	1.375	-
87 PCB 123	PeCB 328 326	22,98 NotFnd		no *	•		0.001		no	0.921	_
	PeCB 328	23.07		no	_						
88 PCB 106	326 PeCB 328	NotFnd 23.19	*	no .	•		0		no	1,282	•
89 PCB 118	326	23.34	2606 1732	1.5	4338	0.006752	0.001	47 37	no	1.028	-
	PeCB 328	23,33	1732	yes				37			

90 PCB 122		326	NotFnd		*	•			0		no	1.158	-
91 PCB 114	PeCB	328	23,63 NotFnd		no *				0.001		no	1.023	-
	PeCB	328	23.82	*	пo								
92 PCB 105	PeCB	326 328	NotFnd 24.37	•	no	·			0.001		no	1.024	-
93 PCB 127	PeCB	326	NotFnd 25.69	•	*	*			0		no	1.256	-
94 PCB 126		326	NotFnd	•	no *	*			0.001		no	1.093	-
95 PCB 155	PeCB	328 360	27.21 NotFnd	•	no *				0.918		no	1.103	_
	HxCB	362	19.32	•	no						110		·
96 PCB 152	НхСВ	360 362	NotFnd 19.45	:	no	*			0.001		no	0.849	-
97 PCB 150		360	NotFnd		*	•			0.001		no	0.77	-
98 PCB 136	HxCB	360	19.59 NotFnd	•	no *	*			0.001		no	0.816	-
99 PCB 145	HxCB	362 360	19.84 NotFnd	:	no *				0.001		no	0.755	-
	HxCB	362	20.09	•	no								-
100 PCB 148	HxCB	360 362	NotFnd 21.19		no	•			0.002		no	0.617	•
101 PCB 151/135		360	NotFnd	*	•	*			0.002		no	0.6	-
102 PCB 154	HxCB	362	21.67 NotFnd	•	no *	*			0.002		no	0.691	
103 PCB 144	HxCB	362 360	21.88 NotFnd	*	no •				0.002		no	0.618	_
	HxCB	362	22.13	*	no								
104 PCB 147/149	HxCB	360 362	NotFnd 22,42	*	no .	•			0.002		no	0.809	-
105 PCB 134/143		360	NotFnd		•	*			0.002		no	0.689	-
106 PCB 139/140	HxCB	360	22.67 NotFnd	•	no *	*			0.002		no	0.804	-
107 PCB 131	HxCB	362 360	22.94 NotFnd		no *	*			0.002		no	0.649	_
	НхСВ	362	23.12	•	no	غ. غ		• .					-
108 PCB 142	НхСВ	360 362	NotFnd 23.25		no	•			0.002		no	0.718	-
109 PCB 132	HxCB	360	NotFnd 23,50	:	*	•			0.002		no	0.7	-
110 PCB 133		360	NotFnd	•	no *	*			0.002		no	0.786	-
111 PCB 165	HxCB	362 360	23.93 NotFnd	:	no *				0.001		по	0.992	_
	HxCB	362	24.22	*	no	2054	0.007=04						
112 PCB 146	НхСВ	360 362	24.42 24.42	1422 1429	1 no	2851	0.007721		0.001	26 16	no	0.895	-
113 PCB 161	НхСВ	360 362	NotFnd 24.54	:	* no	•			0.001		no	1.015	-
114 PCB 153/168		360	24.97	7306	1.28	13003	0.031734		0.001	110	no	0.993	-
115 PCB 141	HxCB	362 360	25.00 NotFnd	5697 *	yes *				0.002	62	no	0.784	
116 PCB 130	HxCB	362 360	25.15 NotFnd	:	no *				0.002				
	HxCB	362	25.52	•	no						no	0.716	•
117 PCB 137	HxCB	360 362	NotFnd 25.75	:	no	•			0.002		no	0.675	-
118 PCB 164		360	NotFnd	:		•			0.001		no	1.109	-
119 PCB 138/163/129		360	25.84 26.13	5242	по 1.16	9773	0.027959		0.001	80	no	0.847	-
120 PCB 160	HxCB	362 360	26.16 NotFnd	4531	yes *				0.001	47	no	0.943	_
	HxCB	362	26.31	*	no						110		-
121 PCB 158	НхСВ	360 362	NotFnd 26.48		no	•			0.001		по	1.103	-
122 PCB 128/166		360	NotFnd	:		*			0.001		no	0.934	-
123 PCB 159		360	27.32 NotFnd	*	no *	•			0		no	1.254	-
124 PCB 162	HxCB	362 360	28.28 NotFnd	*	no *				0		no	1.204	_
	HxCB -	362	28.54		no								
	HxCB -		NotFnd 29.03	•	no	-			0		no	1.103	•
126 PCB 156/157	HxCB :	360 362	NotFnd 30.19	*	no	•			0		no	1.047	-
127 PCB 169		360	NotFnd	*	*	*			0.001		no	1.04	-
128 PCB 188	HxCB	362 394	33.57 NotFnd	*	no *	•	-0.00299		-0.00299	•	по	1.069	-
129 PCB 179	HpCB	396 394	23.78 NotFnd	•	no *		-0.00285		-0.00285	*		1.122	endenceresce
	HpCB :	396	24.07	•	no						no		1
130 PCB 184	НрСВ	394 396	NotFnd 24.54		no	•	-0.00303		-0.00303		no	1.054	-
131 PCB 176		394	NotFnd	•	•	•	-0.00309		-0.00309	:	no	1.032	-
132 PCB 186		394	24.85 NotFnd	•	no •	•	-0.00331		-0.00331	•	по	0,965	-
133 PCB 178	HpCB :	396 394	25.26 NotFnd	•	no •		-0.00415		-0.00415		no	0.77	_
	НрСВ :	396	26.54	•	no •					٠			
134 PCB 175	НрСВ :	394 396	NotFnd 27.13	•	по		-0.00398		-0.00398		no	0.803	-
135 PCB 187		394	27.39	2104 1840	1.14	3944	0.009376		-0.00392	6	no	0.814	•
136 PCB 182		394	27.37 NotFnd	*	yes •	•	-0.00401		-0.00401		no	0.797	-
	НрСВ :	396	27.58	•	NΟ					•			

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137 PCB 183	394	28.01	-694.05	1.05	-1355.05	-0.00259	PCB 183 NDR	-0.00256	4	хL	1.01	edragadi edragadi
138 PCB 185	HpCB 396 394	28.00 NotFnd	-661 •	OK •		-0.00318		-0.00318	3	no	0.813	
139 PCB 174	HpCB 396 394	28.09	# E00 E	00 105				100	•		42	
	HpCB 396	28.24 28.25	-598.5 -570	1.05 OK	-1168.5	-0.00287		-0.00287		Op-O	0.901	
140 PCB 177	394 HpCB 396	28.64 28.66	921 977	0.94 yes	1898	0.004184		-0.00294	5 5	yes	0.878	-
141 PCB 181	394 HpCB 396	NotFnd 29.07	•	• по	•	-0.00291		-0.00291	•	по	0.887	
142 PCB 171/173	394 HpCB 396	NotFnd 29.29	•	no	•	-0.00302		-0.00302	•	no	0.854	
143 PCB 172	394 HpCB 396	NotFnd 30.93		no .	•	-0.00297		-0.00297	•	no	0.869	•
144 PCB 192	394 HpCB 396	NotFnd 31.25	:	 no	•	-0.00244		-0.00244	•	по	1.06	-
145 PCB 193/180	394	31.63	2705	1.11	5151	0.009318		-0.0022	13	yes	1.172	-
146 PCB 191	HpCB 396 394	31.60 NotFnd	2446	yes •	•	-0,00218		-0.00218	11	no	1.186	<u>.</u>
147 PCB 170	HpCB 396 394	31.98 NotFnd		no •	•	-0.0022		-0.0022	*	no	1.171	.481.88
148 PCB 190	HpCB 396 394	32.95 NotFnd	•	no *	•	-0.00222	E .	-0.00222	•	no	1.165	÷
149 PCB 189	HpCB 396 394	33.51 NotFnd	•	no *				0	•	по	0.922	-
150 PCB 202	HpCB 396 428	36.32 NotFnd		no •	200603 * :800	-0.00287		-0.00287		по	1.031	Santa Errori
151 PCB 201	OcCB 430 428	28.79 NotFnd	:	по		-0.00274						-
	OcCB 430	29.71	•	no				-0.00274	•	no	1.078	
152 PCB 204	428 OcCB 430	NotFnd 30.40		no		-0.00279		-0.00279	,	no	1.06	
153 PCB 197	428 OcCB 430	NotFnd 30.63		no no	•	-0.00273		-0.00273		no	1.082	•
154 PCB 200	428 OcCB 430	NotFnd 30.74	•	no		-0.00291		-0.00291	*	no	1.016	-
155 PCB 198/199	428 OcCB 430	33.67 33.68	1156 1340	0.86 yes	2496	0.006166		-0.0038	6 4	yes	0.777	-
156 PCB 196	428 OcCB 430	NotFnd 34.40	•	no		-0.00361		-0.00361		по	0.819	-
157 PCB 203	428 OcCB 430	NotFnd		•	•	-0.00358		-0.00358		no	0.825	
158 PCB 195	428	34.60 NotFnd	•	no *	•	-0.002		-0.002	•	no	0.931	
159 PCB 194	OcCB 430 428	36.05 38.69	-647	no 0.89	-1373.97	-0.00274	PCB 194 NDR	-0.00193	4	хL	0.962	-
160 PCB 205	OcCB 430 428	38.67 NotFnd	-726,966	ok •		-0.00187		-0.00187	4	no	0.992	-
161 PCB 208	OcCB 430 462	39.22 NotFnd		по *				0.002	•	no	1.042	
162 PCB 207	NoCB 464 462	35.81 NotFnd	*	no *				0.002		no	1.302	_
163 PCB 206	NoCB 464 462	36.84 41.19	* 1118	no 1.06	2170	0.005767		0.003	12	no	1.017	
164 PCB 209	NoCB 464 498	41.19 43.06	1052 2499	по	4272				4			-
	DCB 500	43.06	1773	1.41 no		0.012708		0.001	111 54	по	1.026	-
165 PCB 1L	200 202	8.81 8.82	41726 12201	3.42 yes	53927	0.069787		0.005	573 14	no	0.997	35
166 PCB 3L	200 202	10.00 9.99	42031 17794	2.36 no	59825	0.073501		0.005	565 16	no	1.05	37
167 PCB 4L	234 236	10.11 10.10	14855 11671	1.27 no	26525	0.073704		0.003	65 219	no	0.464	37
168 PCB 15L	234 236	1 2.68 12.69	60739 34277	1.77 yes	95016	0.104984		0.002	96 209	no	1.168	53
169 PCB 19L	268 270	11.48 11.47	20080 17401	1.15 yes	37481	0.090258		0.007	38 33	no	0.536	45
170 PCB 37L	268 270	16.35 16.33	58550 58660	1 yes	117210	0.14458		0.005	62 119	no	1.848	73
171 PCB 54L	302 304	12.82 12.81	15845 20246	0.78 yes	36091	0.102555		0.002	102 302	no	0.802	51
172 PCB 81L	302	20.98	20	0.14	156	0.000223		0	0	yes	1.597	0
173 PCB 77L	304 302	20.95 21.36	137 3	no 0.04	74	0.000106		0	0	yes	1.607	0
174 PCB 104L	304 338	21.40 15.60	71 33868	no 1.51	56217	251.076		0.364	0 1992	no	0.912	1E+05
175 PCB 123L	340 338	15.61 23.05	22349 83971	yes 1.63	135464	348.8668		1.46	1725 770	no	1.581	2E+05
176 PCB 118L	340 338	22.99 23.33	51493 74448	yes 1.49	124474	335.6844		1.528	346 667	по	1.51	2E+05
177 PCB 114L	340 338	23.28 23.80	50025 73548	yes 1.54	121364	335.8831		1.569	324 655	по	1.471	2E+05
178 PCB 105L	340 338	23.74 24.35	47816 7 6646	yes 1.51	127466	348.6854		1. 5 5	316 688	no	1,488	2E+05
179 PCB 126L	340 338	24.30 27.19	50820 67632	yes 1.62	109350	309,0374		1.602	322 558	no	1.44	2E+05
180 PCB 155L	340 372	27.11 19.30	41718 2	yes 0.09	26	0.000063		0	259 1		1.01	
	374	19.26	24	по					0	yes		0
181 PCB 167L	372 374	29.00 28.99	7 0535 54097	1.3 yes		0.212269		0.001	413 507	no	1.424	107
182 PCB 156L/157L	372 37 4	30.16 30.14	141438 115118	1.23 yes		0.416331		0.001	656 908	no	1.495	105
183 PCB 169L	372 3 74	33.54 33.53	42129 33654	1.25 yes	75783	0.121101		0.001	235 294	no	1.518	61

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	184 PCB 188L	406 408	23.76 23.77	51307 50639	1.01 yes	101945	0.216429		0.001	884 2038	no	1.142	109
	185 PCB 180L	406	31.60	49316	1.1	93977	0.188642		0.001	543	по	1.343	95
Maria Kali K		408	31.57	44660	yes					1940			12000
	186 PCB 170L	406 408	32.91 32.89	39399 39625	0.99 yes	79024	0.186614		0.001	416 1687	по	1.141	94
	187 PCB 189L	406	36.28	70878		400040	0.404700		0.002	280		4.000	96
	187 PCB 189L	408	36.28 36.29	65941	1.08 ves	136819	0.191766		0.002	518	no	1.923	96
S.F. 787 (52)	188 PCB 202L	440	28.76	46199	0.87	99114	0.197458		0	1787	по	1.353	99
		442	28.75	52915	yes	55.1.7	0.101.700		•	2390		1.000	
Marian Marian	189 PCB 205L	440	39,18	50867	0.88	108369	0.205133		0.002	381	no	1,424	103
	103 1 02 2002	442	39.19	57502	yes	100505	0.200100		0.002	440	110	1,727	100
	190 PCB 208L	474	35.77	39527	9es 0.8	88982	0.183174		0.001	616	no	1.309	92
	190 FOB 200L	476	35.79	49455		00302	0.103174		0.001	409	ПО	1.309	32
	191 PCB 206L	474	41.19	30798	yes 0.72	70740	0.045450		0.000			0.004	108
	191 PCB 206L	476	41.19			73718	0.215152		0.002	419	no	0.924	108
	400 000 000			42921	yes				_	320			40-
	192 PCB 209L	510	43.02	35868	1,22	65235	0.21227		0	2502	no	0.828	107
		512	43.05	29367	yes					1487			
	193 PCB 28L	268	14.11	60792	1.07	117498	0.136008		0.005	72	no	1.969	62
	PCB Cleanup Standar		14.12	56706	yes					129			
	194 PCB 111L	338	21.39	7	0.11	71	0.209936		0.861	1	yes	1.373	95
	PCB Cleanup Standar		21.36	64	no					1			
	195 PCB 178L	406	26.51	35481	1.02	70267	0.232719		0.001	600	no	0.732	105
	PCB Cleanup Standar	d 408	26.51	34786	yes					1417			
	196 PCB 31L	268	NotFnd	*	*	*			0.005		no	1.878	
	PCB Audit Standar	d 270	13.97	*	no								
	197 PCB 95L	338	NotFnd	*	*	•			1.291		no	0.916	
	PCB Audit Standar	d 340	17. 3 6	•	no								
	198 PCB 153L	372	24.95	1188	0.65	3005	0.006215		0.001	19	no	1.173	3
	PCB Audit Standar	d 374	24.97	1817	по					45			
	199 PCB 9L	234	10.99	523685	1.57	857339	2.119533		-	942	no	-	
	PCB Recovery Standar	d 236	11.00	333654	yes					2247			
	200 PCB 52L	302	15.05	212324	0.78	485468	2.158638		_	1111	no	_	-
	PCB Recovery Standar		15.05	273144	yes					2398			
	201 PCB 101L	338	19.35	129	0.9	272	0.001331		-	5	yes	_	-
	PCB Recovery Standard		19.36	143	no		0.00.00.			ĭ	,		
	202 PCB 138L	372	26.10	253588	1.25	456176	2.190905		_	4461	no	_	_
	PCB Recovery Standard		26.07	202589	yes	100110	2.100000			4174	110		
	203 PCB 194L	440	38.65	197260	0.93	410509	2,189171		_	1417	no	_	
	PCB Recovery Standard		38.59	213250	yes	410003	2.100171			1626	110		
	Objbt-bd-						0.004	•	0.004				
	Chlorobiphenyls						-0.001	0 1	-0.001				
	Dichlorobiphenyls						0.016242	•	-0.009				
	Trichlorobiphenyls						0.023419	3	-0.004				
	Tetrachloroblphenyls						0.469049	5	-0.666				
	Pentachloroblohenyls						0.006752	1	-0.001				
	Hexachlorobiphenyls						0.067414	3	-0.918				
	Heptachlorobiphenyls						0.022878	3	-0.00415				
	Octachlorobiphenyls						0.006166	1	-0.0038				
	Nonachlorobiphenyls						0.005767	1	-0.00 3				
	Decachloroblphenyl						0.012708	1	-0.001				
	PCB (total)						0.630395						

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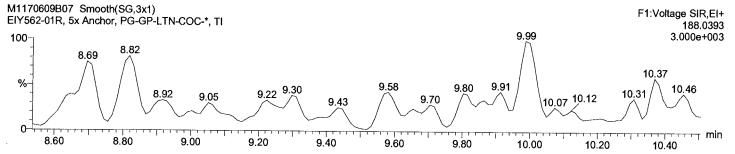
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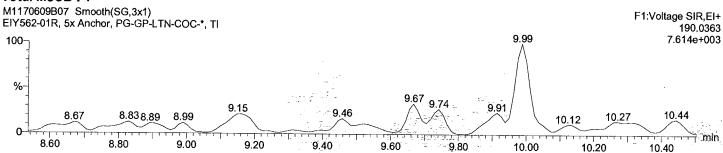
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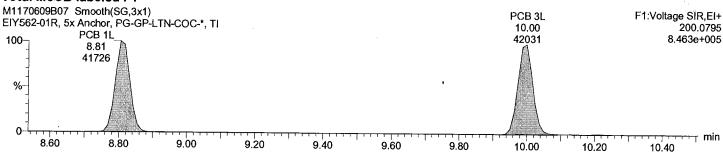




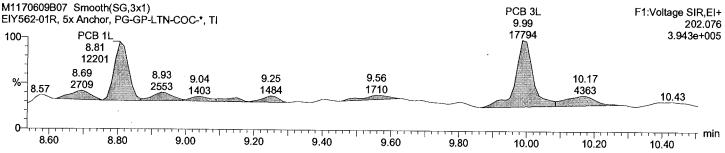
Total MoCB F1



Total MoCB labeled F1



Total MoCB labeled F1



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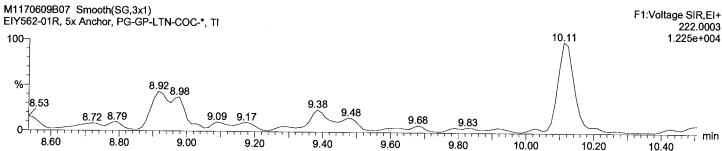
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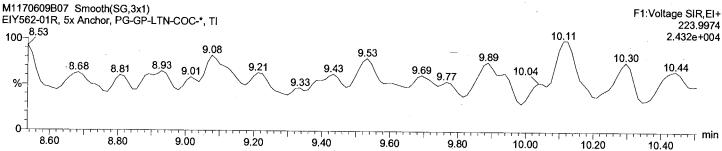
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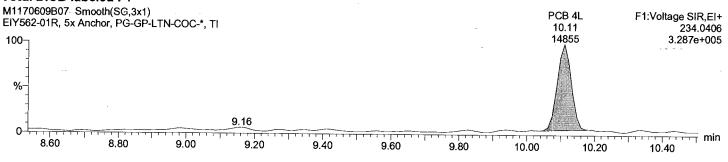




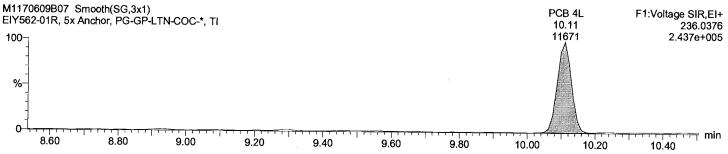
Total DiCB F1



Total DiCB labeled F1



Total DiCB labeled F1



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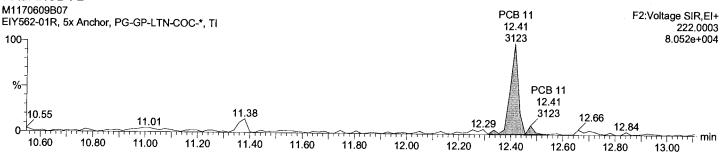
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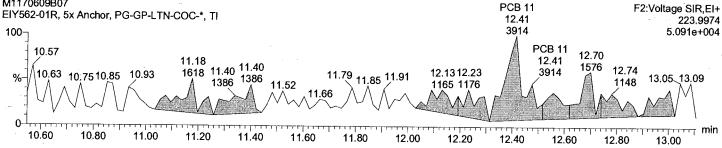
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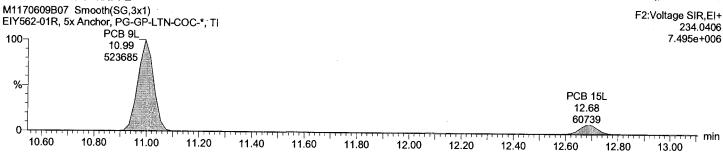




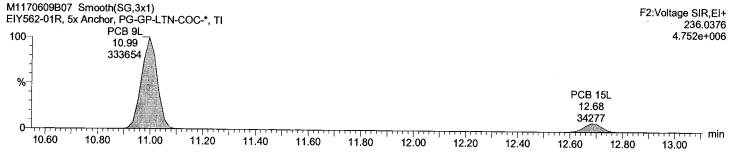
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Total DiCB labeled F2



Total DiCB labeled F2



Acquired Date

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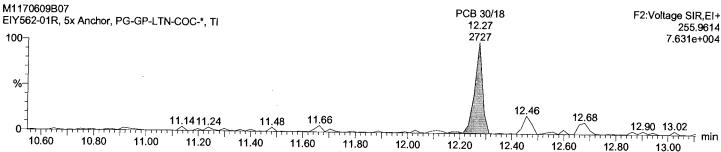
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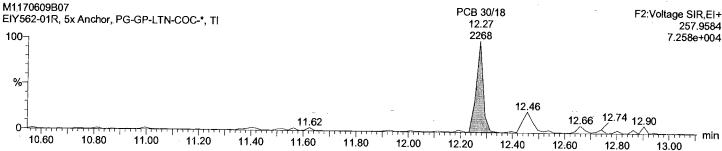
Vial: 7

Date: 09-Jun-2017 Time: 23:42:07 Instrument:

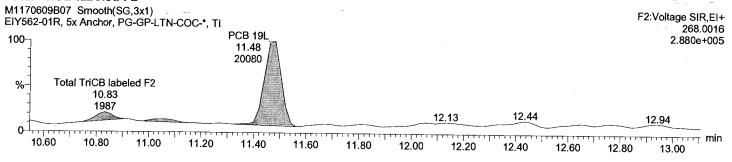




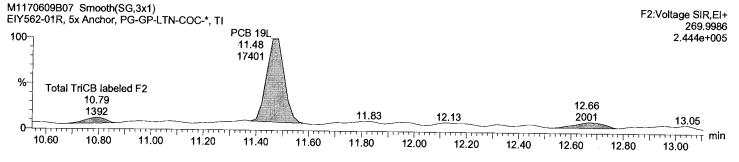
Total TriCB F2



Total TriCB labeled F2



Total TriCB labeled F2



Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered: Printed:

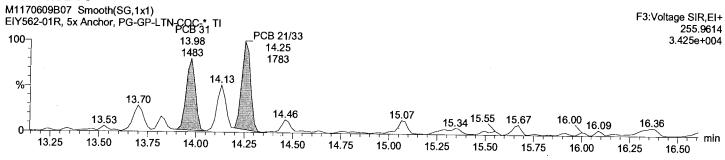
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

Description: EIY562-01R, 5x

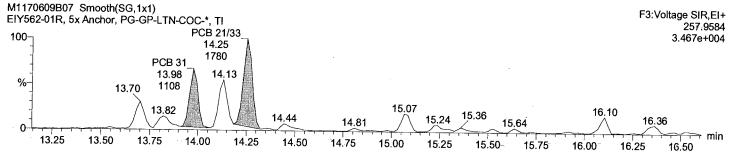
Vial: 7

Date: 09-Jun-2017 Time: 23:42:07 Instrument:

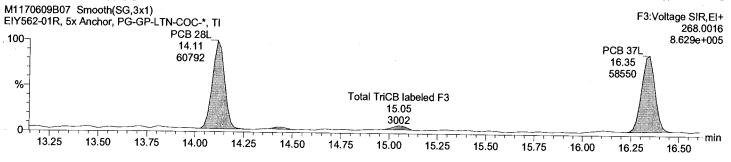
Total TriCB F3



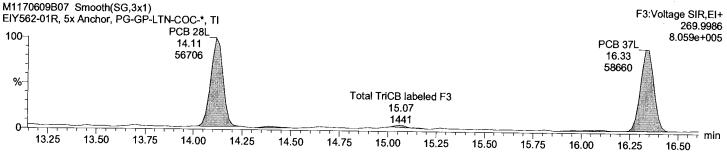
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



Quantify Sample Report

Acquired Date

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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered: Printed:

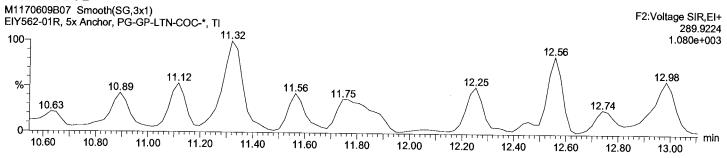
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

Description: EIY562-01R, 5x

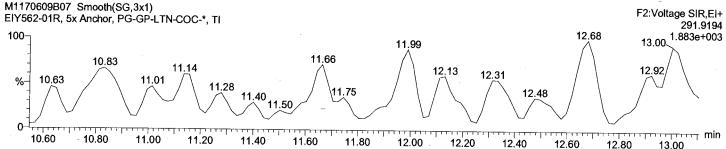
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Date: 09-Jun-2017 Time: 23:42:07 Instrument:

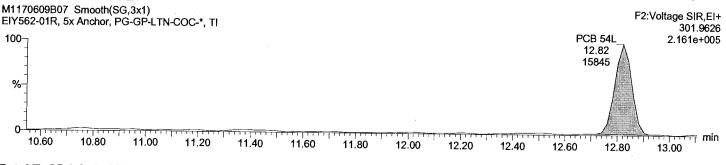
Total TeCB F2

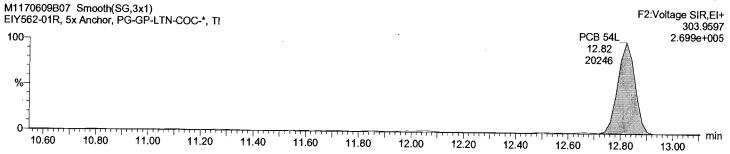


Total TeCB F2



Total TeCB labeled F2





Dataset:

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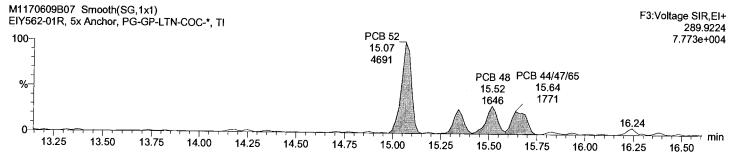
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

Description: EIY562-01R, 5x

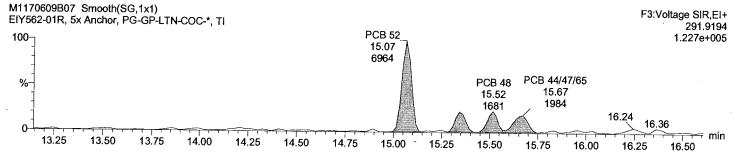
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Date: 09-Jun-2017 Time: 23:42:07 Instrument:

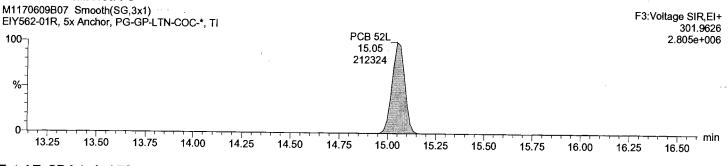
Total TeCB F3

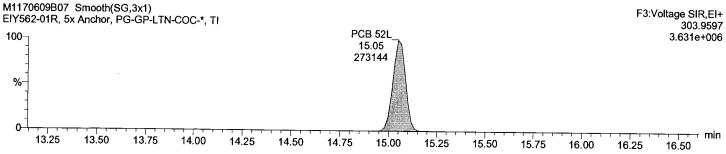


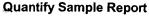
Total TeCB F3



Total TeCB labeled F3







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Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

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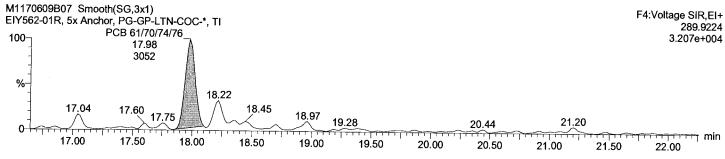
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

Description: EIY562-01R, 5x

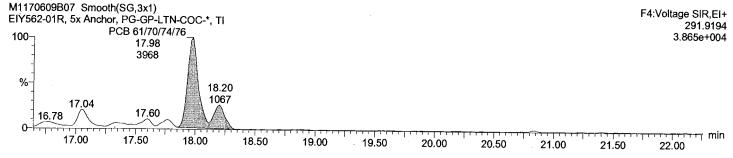
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Date: 09-Jun-2017 Time: 23:42:07 Instrument:

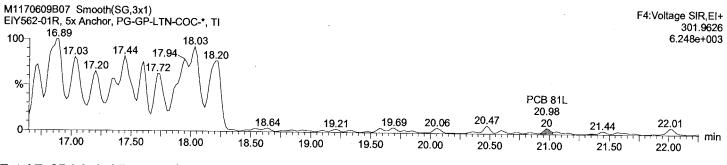
Total TeCB F4

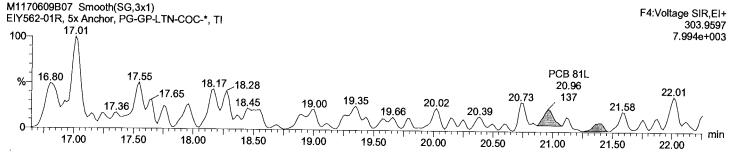


Total TeCB F4



Total TeCB labeled F4





Dataset:

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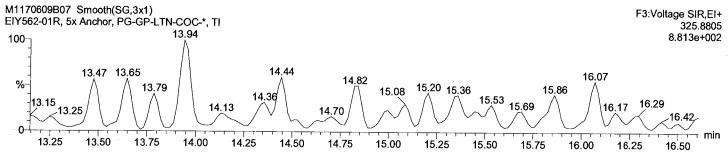
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Description: EIY562-01R, 5x

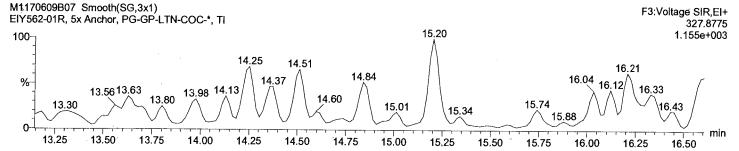
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Date: 09-Jun-2017 Time: 23:42:07 Instrument:

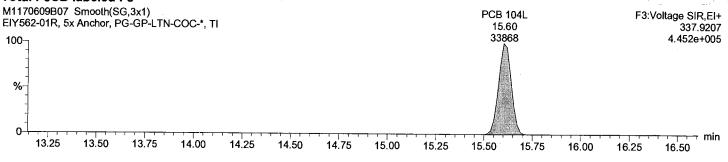


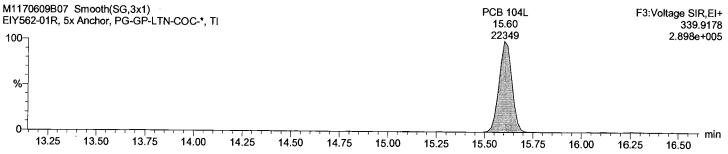


Total PeCB F3



Total PeCB labeled F3





Dataset:

Acquired Date

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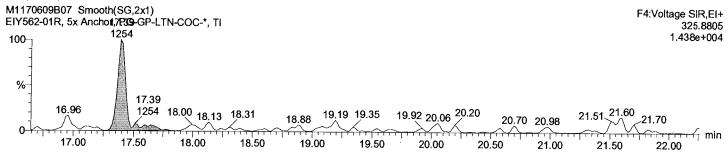
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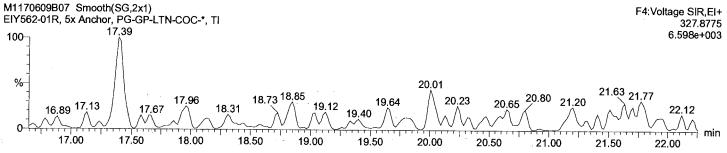
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Date: 09-Jun-2017 Time: 23:42:07 Instrument:

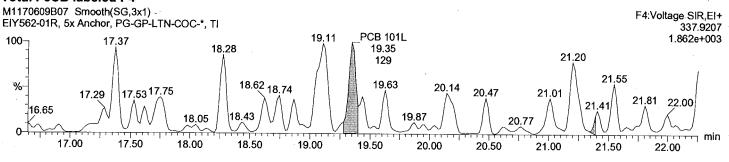


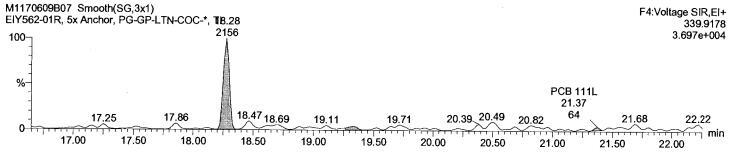


Total PeCB F4



Total PeCB labeled F4





Dataset:

Acquired Date

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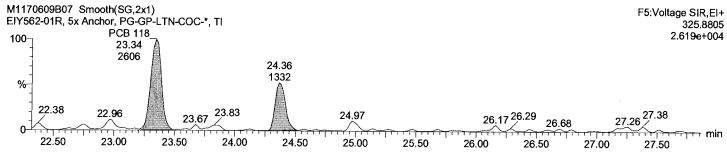
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

Description: EIY562-01R, 5x

Vial: 7

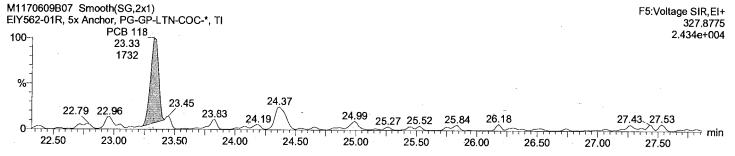
Date: 09-Jun-2017 Time: 23:42:07 Instrument:

Total PeCB F5

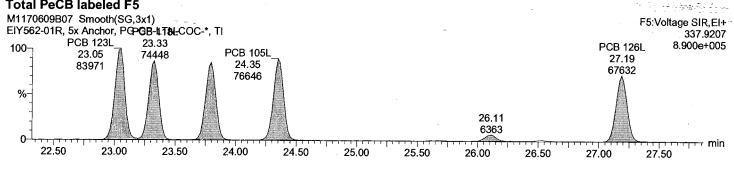


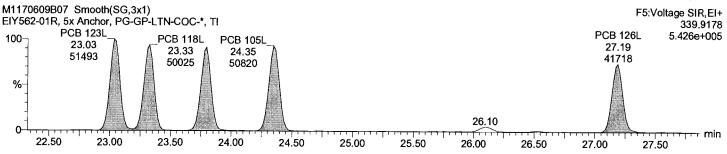
Total PeCB F5

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Total PeCB labeled F5





Acquired Date Dataset:

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Last Altered:

Monday, June 12, 2017 10:14:38 AM

Printed:

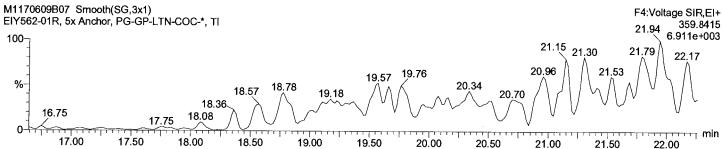
Monday, June 12, 2017 10:15:27 AM

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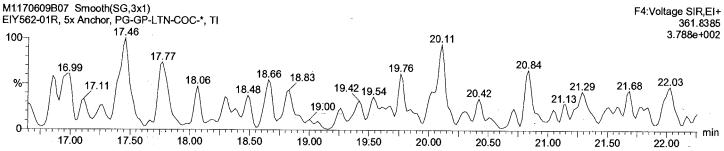
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Date: 09-Jun-2017 Time: 23:42:07 Instrument:

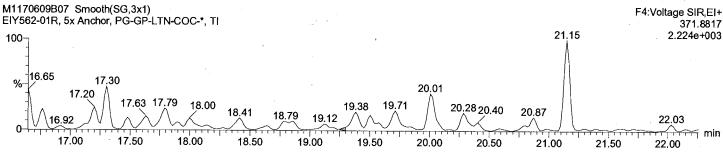
Total HxCB F4

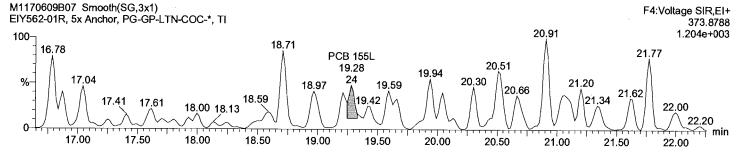


Total HxCB F4



Total HxCB labeled F4





Dataset:

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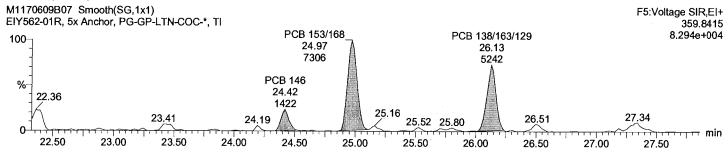
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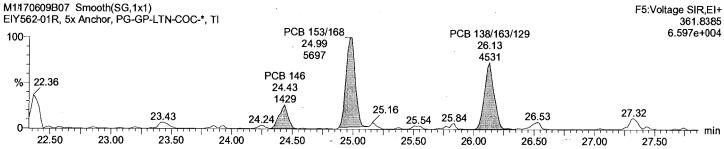
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Date: 09-Jun-2017 Time: 23:42:07 Instrument:

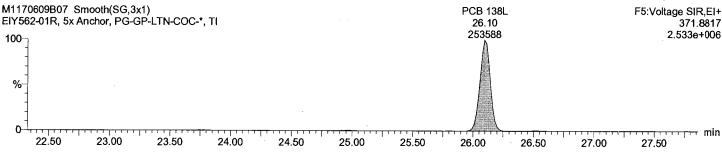
Total HxCB F5

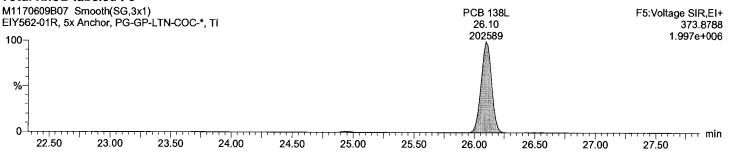


Total HxCB F5



Total HxCB labeled F5





Dataset:

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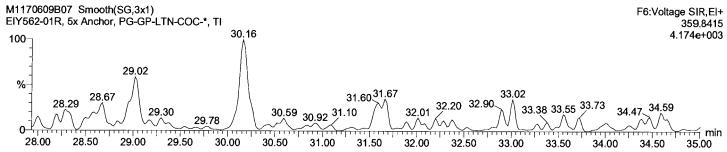
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

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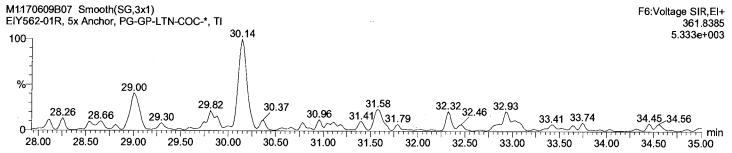
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Date: 09-Jun-2017 Time: 23:42:07 Instrument:

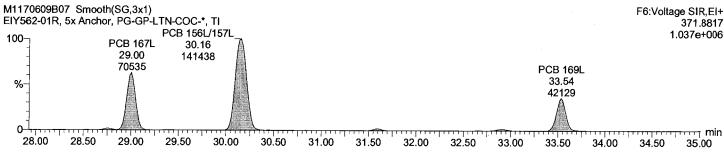
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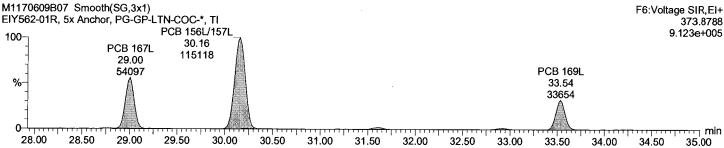


Total HxCB F6



Total HxCB labeled F6





Dataset:

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Last Altered: Printed:

Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

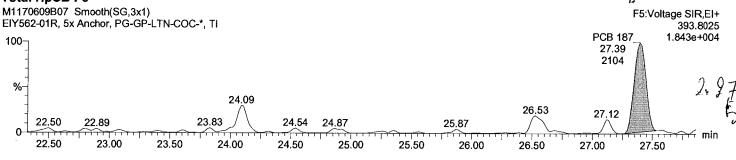
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Vial: 7

Date: 09-Jun-2017 Time: 23:42:07 Instrument:

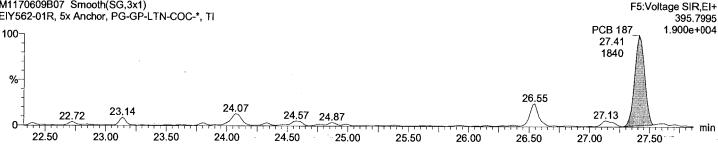
Total HpCB F5

EIY562-01R, 5x Anchor, PG-GP-LTN-COC-*, TI



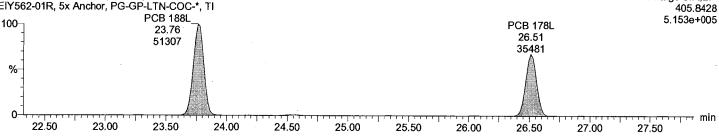
Total HpCB F5

M1170609B07 Smooth(SG,3x1) EIY562-01R, 5x Anchor, PG-GP-LTN-COC-*, TI



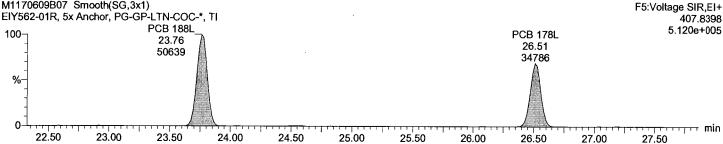
Total HpCB labeled F5

M1170609B07 Smooth(SG,3x1) EIY562-01R, 5x Anchor, PG-GP-LTN-COC-*, TI



Total HpCB labeled F5

M1170609B07 Smooth(SG,3x1)



F5:Voltage SIR,EI+

Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

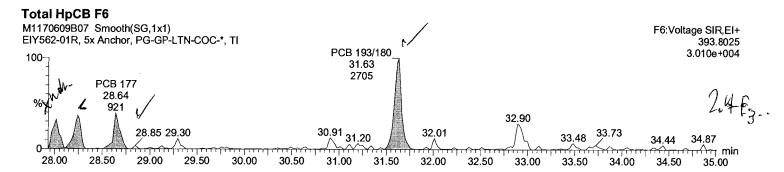
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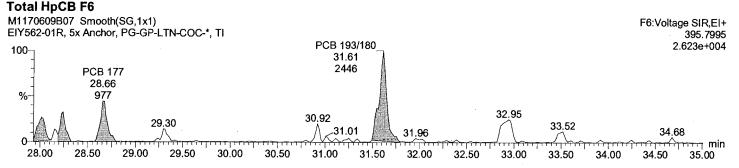
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

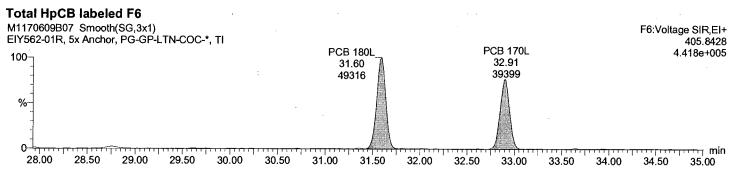
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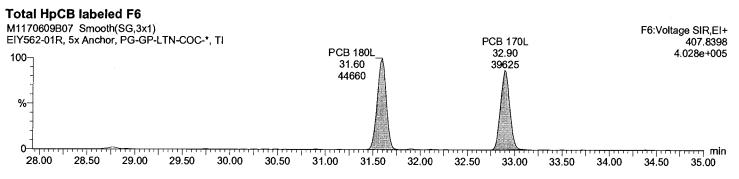
Vial: 7

Date: 09-Jun-2017 Time: 23:42:07 Instrument:









Quantify Sample Report

Acquired Date

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F7:Voltage SIR,EI+

Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered: Printed:

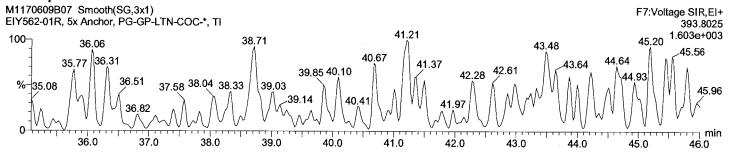
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

Description: EIY562-01R, 5x

Vial: 7

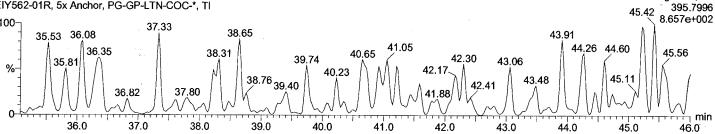
Date: 09-Jun-2017 Time: 23:42:07 Instrument:

Total HpCB F7



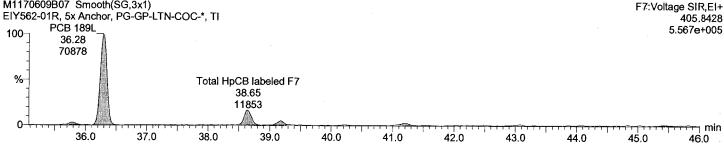


M1170609B07 Smooth(SG,3x1) EIY562-01R, 5x Anchor, PG-GP-LTN-COC-*, TI



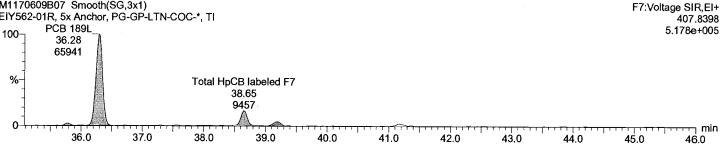
Total HpCB labeled F7

M1170609B07 Smooth(SG,3x1)



Total HpCB labeled F7

M1170609B07 Smooth(SG,3x1) ElY562-01R, 5x Anchor, PG-GP-LTN-COC-*, TI



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Acquired Date

Dataset:

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Last Altered: Printed: Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

Description: EIY562-01R, 5x

Vial: 7

28.00

28.50

29.00

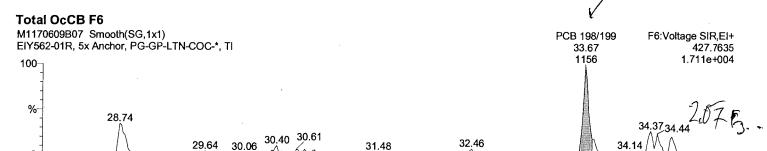
29.50

30.00

30.50

31,00

Date: 09-Jun-2017 Time: 23:42:07 Instrument:



31.50

32.00

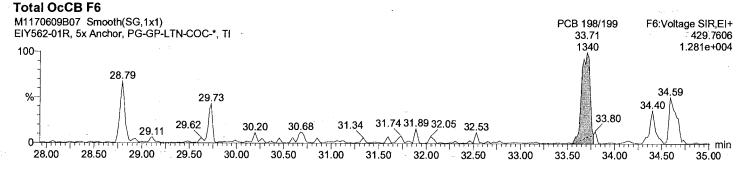
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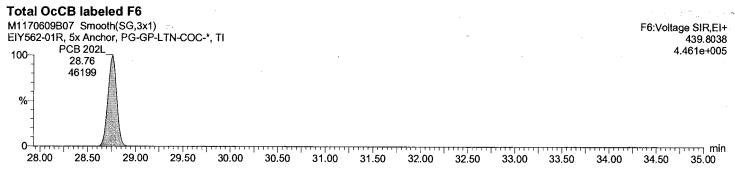
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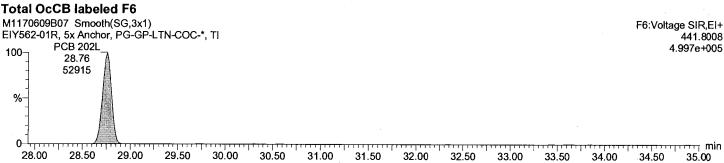
33.50

34.00

34,50







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Acquired Date

Dataset:

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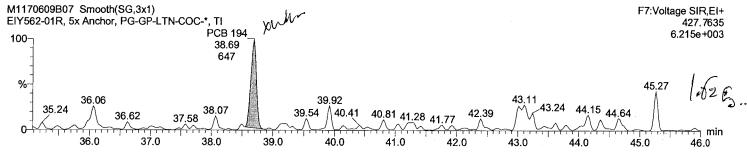
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

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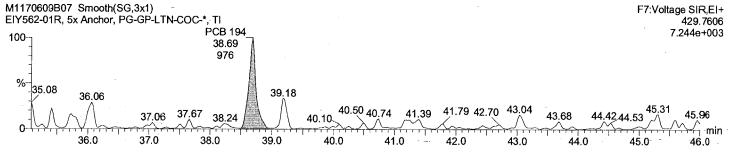
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Date: 09-Jun-2017 Time: 23:42:07 Instrument:

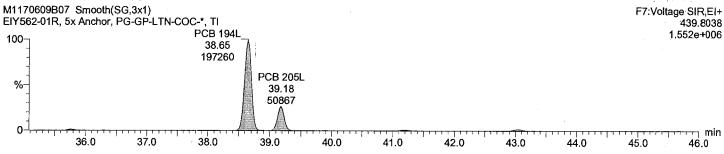




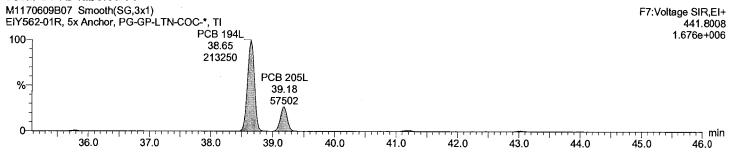
Total OcCB F7



Total OcCB labeled F7



Total OcCB labeled F7



Dataset:

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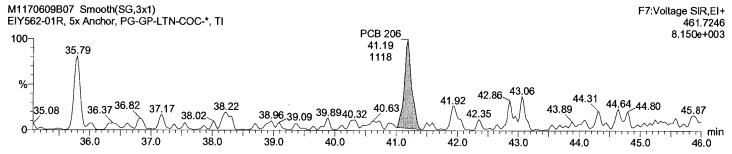
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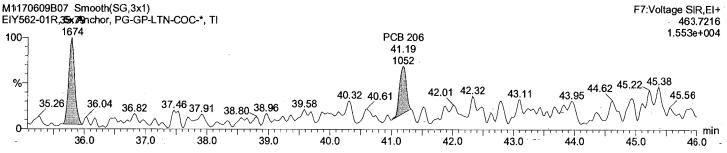
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Date: 09-Jun-2017 Time: 23:42:07 Instrument:

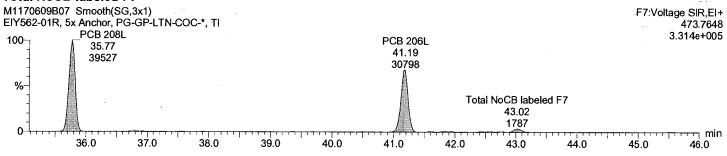




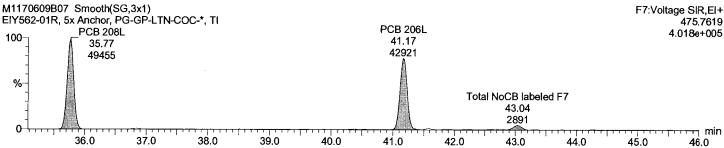
Total NoCB F7



Total NoCB labeled F7



Total NoCB labeled F7



Dataset:

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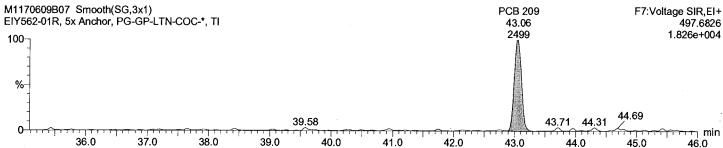
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

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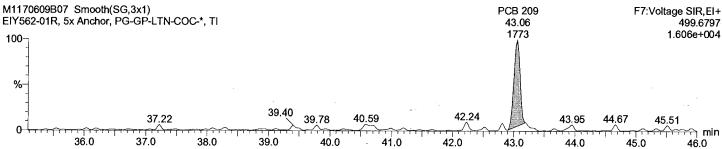
Vial: 7

Date: 09-Jun-2017 Time: 23:42:07 Instrument:

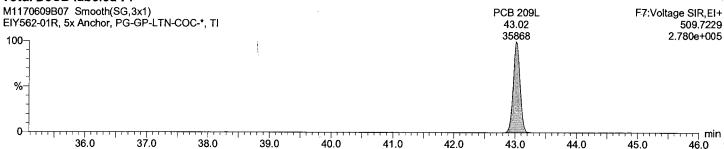


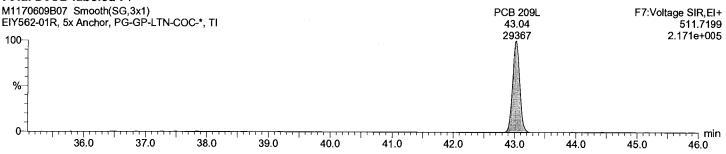


Total DeCB F7



Total DeCB labeled F7





Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered:

Monday, June 12, 2017 10:14:38 AM

Printed:

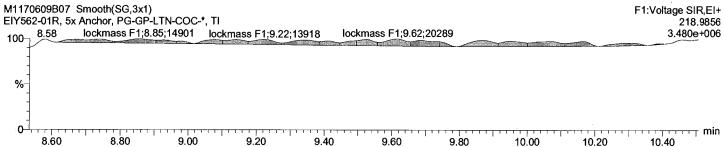
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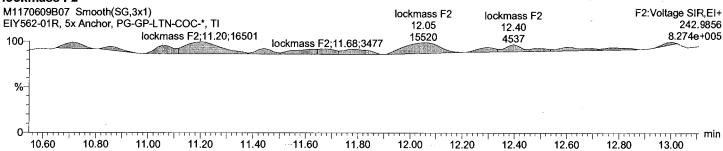
Vial: 7

Date: 09-Jun-2017 Time: 23:42:07 Instrument:

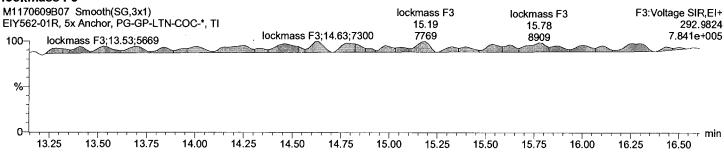




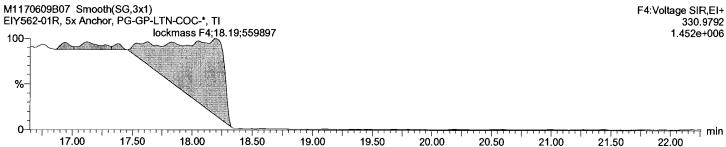
lockmass F2



lockmass F3



lockmass F4



Dataset:

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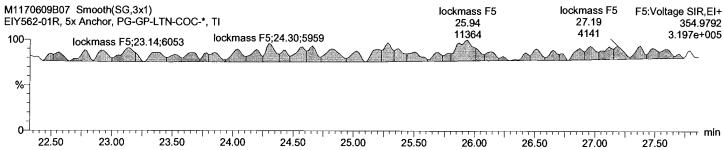
Monday, June 12, 2017 10:14:38 AM Monday, June 12, 2017 10:15:27 AM

Description: EIY562-01R, 5x

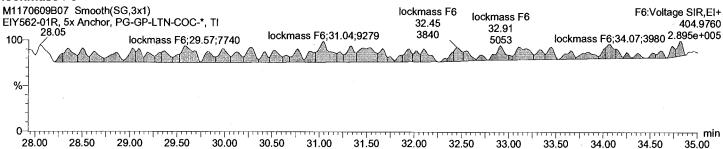
Vial: 7

Date: 09-Jun-2017 Time: 23:42:07 Instrument:

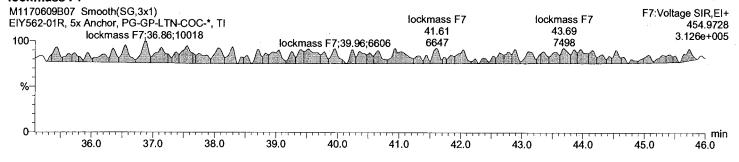




lockmass F6



lockmass F7



Filename M1170609B08 Acquired 06/10/2017 0:32

Call File PCB209_M1170609B

Sample ID EIY565-01R, 5x Comments Instrument File Ultima 1 Sample Size 10

Dil Fac 1.00

								Isomers					
Name 1 PCB 1	mass 188	RT NotFnd	Area *	ratio	Tot Area	ng/g	Code		DL 0.001	S/N	Mod no	rrf 1.053	Rec
	MoCB 190	8.83	*	no									_
2 PCB 2	188 MoCB 190	NotFnd 9.92	•	no	•				0.001		no	1.198	-
3 PCB 3	188 MoCB 190	NotFnd 10.01	•	*	*				0.001		no	1.055	-
4 PCB 4	222	NotFnd	*	no *	*				0.005		no	1.191	-
5 PCB 10	DICB 224 222	10.12 NotFnd	*	no *					0.003			1 156	
	DICB 224	10.21	*	no					0.003		no	1.156	-
6 PCB 9	222 DICB 224	NotFnd 11.01	*	no	*		•		0.005		no	1.544	-
7 PCB 7	222	NotFnd	*	•	•				0.006		no	1.399	-
*8 PCB 6	DiCB 224 222	11.09 NotFnd	*	no *					0.006		no	1.424	_
	DICB 224	11.19	:	no									
9 PCB 5	222 DICB 224	NotFnd 11.31		no	•				0.006		no	1.462	-
10 PCB 8	222 DICB 224	NotFnd 11.38	:	•	•				0.006		no	1.443	-
11 PCB 14	222	NotFnd	•	no *	*				0.005		no	1.506	_
12 PCB 11	DICB 224 222	12.05 1 2.41	* 3280	no 1.54	5403	0.010181			0.006	23		4.40	
	DICB 224	12.42	2123	yes	0403	0.010101			0.000	4	no	1.42	•
13 PCB 13/12	222 DICB 224	NotFnd 12.56	•	no	•				0.006		по	1.443	•
14 PCB 15	222	NotFnd		•	•				0.007		no	0.956	-
15 PCB 19	DiCB 224 256	12.70 NotFnd		no ≠					0.003		no	1.06	_
	TriCB 258	11.48	•	no	_						110		
16 PCB 30/18	256 TriCB 258	NotFnd 12.27		no	•				0.002		no	1.033	-
17 PCB 17	256	NotFnd	*	•	*				0.002		no	0.838	-
18 PCB 27	TrìCB 258 256	12.48 NotFnd	•	no •					0.001		по	1.164	_
19 PCB 24	TriCB 258 256	12.56 NotFnd	•	no			•						
	TriCB 258	12.61	*	no					0.001		no	1.35	-
20 PCB 16	256 TriCB 258	NotFnd 12.69	*	no	•				0.003		no	0.606	-
21 PCB 32	256	NotFnd	•	*	•				0.001		no	1.334	
22 PCB 34	TrlCB 258 256	12.90 NotFnd	:	no *					0		по	1.427	
	TriCB 258	13.48	*	no							110		-
23 PCB 23	256 TriCB 258	NotFnd 13.56		no	*				0		no	1.32	-
24 PCB 26/29	256	13.70	1029	1.03	2030	0.002818			0	28	no	1.443	-
25 PCB 25	TriCB 258 256	13.72 NotFnd	1002	yes *					0	21	no	1.389	
26 PCB 31	TriCB 258 256	13.85 13.98	4970	no	2545	0.004644				00			
	TriCB 258	14.01	1870 1646	1.14 yes	3515	0.004611			0	60 37	no	1.527	-
27 PCB 28/20	256 TrICB 258	14.13 14.16	1454 1822	0.8 no	3276	0.004553			0	46	no	1.441	
28 PCB 21/33	256	14.25	3068	1.03	6038	0.008693			0	36 102	по	1.391	-
29 PCB 22	TriCB 258 256	14.27 NotFnd	2970	yes *					0	58	по	1.357	
	TriCB 258	14.47	•	no							110		-
30 PCB 36	256 TriCB 258	NotFnd 15.30		no	*				0		no	1.632	-
31 PCB 39	256	NotFnd		*	*				0		no	1.448	-
32 PCB 38	TriCB 258 256	15.50 NotFnd	*	no •	•				0		no	1.474	-
33 PCB 35	TriCB 258 256	15.87 NotFnd	:	no *					•				
	TriCB 258	16.10	*	no					0		no	1.4	•
34 PCB 37	256 TriCB 258	NotFnd 16.36	•	* по	*				0		no	0.951	-
35 PCB 54	290	NotFnd	•	*	*				0.001		no	1.071	-
36 PCB 53/50	TCB 292 290	12.82 NotFnd	•	no *					0.002		по	0.861	
	TCB 292	13.86	•	no									
37 PCB 45/51	290 TCB 292	NotFnd 14,21		no	*				0.002		по	0.832	•
38 PCB 46	290	NotFnd	•	*	•				0.003		no	0.718	-
39 PCB 52	TCB 292 290	14.35 15.08	6704	no 0 .74	15796	0.028394			0.002	77	no	0.961	-
40 PCB 73	TCB 292 290	15.05 NotFnd	9092	yes •						51			
	TCB 292	15.14	•	no	•				0.002		no	1.012	-
41 PCB 43	290 TCB 292	NotFnd 15.21	:	no	•				0.003		no	0.787	-
42 PCB 69/49	290	15.36	1798	0.92	3752	0.0068			0.002	19	по	0.953	-
	TCB 292	15.34	1954	по						11			

42 DCD 40		200	45.50	4220	0.00	0040	0.040770					
43 PCB 48	тсв	290 292	15.53 15.50	4320 4899	0.88 yes	9219	0.018776	0.002	41 26	no	0.848	-
44 PCB 44/47/65	тсв	290	1 5.65 15.64	17 90 2407	0.74	4198	0.007909	0.002	17	no	0.917	-
45 PCB 59/62/75		290	NotFnd	*	yes *	*		0.002	12	по	1.12	
46 PCB 42	TCB	292 290	15.84 NotFnd	*	no	*		0.002			0.700	
	TCB	292	15.94	*	no			0.003		no	0.728	-
47 PCB 40/41/71	тсв	290	NotFnd 16,23	•	*	•		0.002		no	0.85	-
48 PCB 64		290	NotFnd	*	no *	•		0.002		no	1.079	-
49 PCB 72	TCB	292 290	16.37 NotFnd	•	no *			0.001		no	1.426	
	TCB	292	16.90	*	no					110	1,420	_
50 PCB 68	тсв	290 292	NotFnd 17.09	:	no	•		0.001		no	1.39	-
51 PCB 57		290	NotFnd	*	*	•		0.001		no	1.359	-
52 PCB 58	TCB	292 290	17.36 NotFnd		no *	*		0.001		no	1.206	
52 DCD 67	TÇB	292	17.51	•	no							
53 PCB 67	ТСВ	290 292	NotFnd 17.59	•	no	•		0.001		no	1.485	-
54 PCB 63	тсв	290	NotFnd	:	*	*		0.001		no	1.419	-
55 PCB 61/70/74/76	1	290	17.76 17.98	4006	no 0.76	9243	0.01211	0.001	26	no	1.318	_
56 PCB 66	TCB	292 2 90	18.01 18.20	5238 1016	yes 0.74	2396	0.002989	0.001	31 7		4 204	
	TCB	292	18.24	1380	yes	2330	0.002909	0.001	8	no	1.384	-
57 PCB 55	тсв	290 292	NotFnd 18.37	*	no	•		0.001		no	1.248	-
58 PCB 56		290	NotFnd	•	*	*		0.001		по	1.286	-
59 PCB 60	TCB	292 290	18.70 NotFnd	*	. no			0.001		no	1.277	_
	TCB.	292	18.87	*	по					110		-
60 PCB 80	TCB	290 292	NotFnd 19.10	*	no	*		0.001		no	1.5	•
61 PCB 79		290	NotFnd	*	*	*		0.001		no	1.544	-
62 PCB 78	TCB	292 290	20,23 NotFnd	*	no *			0.001		no	1.394	_
63 PCB 81	TCB :		20.67	*	no							
63 PCB 81	TCB :	290 292	NotFnd 21.01	•	no	-		0.001		по	1.02	-
64 PCB 77	TCB :	290	NotFnd 21,44	:	*	•		0.001		no	1.016	-
65 PCB 104	;	326	NotFnd		no *	•		0		no	1.194	-
66 PCB 96	PeCB :	328 326	15.64 NotFnd	*	no *	*		0		20	0.010	
	PeCB :	328	15.85	*	no			U		no	0.819	-
67 PCB 103	PeCB :	326 328	NotFnd 16.98	:	no	*		0.001		no	0.834	-
68 PCB 94	;	326	NotFnd	*	*	**		0.001		по	0.668	-
69 PCB 95	PeCB 3	328 326	17.12 NotFnd	:	no •			0.001		no	0.789	_
	PeCB 3	328	17.40	•	no							
70 PCB 100/93/102/	PeCB 3	326 328	NotFnd 17.54		no	•		0.001		no	0.724	-
71 PCB 88/91	PeCB 3	326	NotFnd	•	•	*		0.001		no	0.739	-
72 PCB 84		328 326	17.95 NotFnd		no *	•		0.001		по	0.66	-
73 PCB 89	PeCB 3	328 326	18.12 NotFnd	:	no *							
	PeCB 3	328	18.45	. *	no			0.001		по	0.717	•
74 PCB 121	PeCB 3	326 328	NotFnd 18.70		* no	*		0.001		пo	0.972	-
75 PCB 92	3	326	NotFnd	*	*	*		0.001		no	0.75	-
76 PCB 113/90/101	PeCB 3	328 326	18.96 19.40	25344	no 1.52	42046	0.077991	0.001	416	no	0.856	
	PeCB 3	328	19.38	16702	yes				204			
77 PCB 83/99	PeCB 3	32 6 328	19.8 3 19.84	2703 1527	1.77 yes	4230	0.008771	0.001	42 18	no	0.765	-
78 PCB 112	PeCB 3	326	NotFnd 19.92	*	•	•		0.001		no	0.907	-
79 PCB 109/119/86/9	97/125/3	326	20.21	1034	no 0.94	2130	0.003866	0.001	16	no	0.874	-
80 PCB 117/116/85	PeCB 3	328 326	20.21 20.90	1096 1236	no 0.9	2603	0.004531	0.001	9			
	PeCB 3	328	20.76	1367	no	2003	0.004551	0.001	22 17	no	0.912	•
81 PCB 110/115	PeCB 3	326 328	NotFnd 20.88	•	* no	•		0.001		по	0.93	-
82 PCB 82	3	326	NotFnd	*	*	*		0.001		no	0.681	-
83 PCB 111	PeCB 3	328 326	21.15 NotFnd	*	no *			0.001		no	1.022	_
	PeCB 3	328	21.45	*	no							-
84 PCB 120	PeCB 3	326 328	NotFnd 21.81	:	no	*		0.001		no	1.091	-
85 PCB 108/124	3	326	NotFnd	•	•	•		0.001		no	1.201	-
86 PCB 107	PeCB 3	328 326	22.78 NotFnd	•	no *			0.001		no	1.375	-
87 PCB 123	PeCB 3	328	22.99	•	по							
	PeCB 3		NotFnd 23.08	*	по	-		0.001		no	0.921	•
88 PCB 106	PeCB 3	26	NotFnd 23.19	•	•	•		0.001		no	1.282	-
89 PCB 118	3	26	23.35	3753	no 1.74	5906	0.008343	0.001	72	по	1.028	-
	PeCB 3	28	23.33	2152	yes				20			

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90 PCB 122	326	NotFnd	*	•	*		0.001		no	1.158	-
91 PCB 114	PeCB 328 326	23.63 NotFnd	:	no *			0.001		20	1.023	
311 05 114	PeCB 328	23.82	•	no			0.001		no	1.023	•
92 PCB 105	326	NotFnd		*	•		0.001		no	1.024	-
93 PCB 127	PeCB 328 326	24.38 NotFnd		no *			0.001		no	1.256	_
	PeCB 328	25.69	*	no							
94 PCB 126	326 PeCB 328	NotFnd 27.22	:	no	•		0.001		no	1.093	-
95 PCB 155	360	NotFnd	•	*	•		0		no	1.103	-
00 DCD 450	HxCB 362	19.26	•	no *			•			0.040	
96 PCB 152	360 HxCB 362	NotFnd 19.40	•	no			0		no	0.849	•
97 PCB 150	360	NotFnd	•	•	•		0		no	0.77	-
98 PCB 136	HxCB 362 360	19.53 NotFnd		no *			0		no	0.816	_
	HxCB 362	19.78	*	no			·		110	0.010	
99 PCB 145	360 HxCB 362	NotFnd 20.03	*	*	*		0		no	0.755	-
100 PCB 148	360	NotFnd	•	no *	•		0		no	0.617	_
104 DOD 454/435	HxCB 362	21.13	:	no *			•			• •	
101 PCB 151/135	360 HxCB 362	NotFnd 21.61	*	no			0		no	0.6	-
102 PCB 154	360	NotFnd	*	*	*		0		no	0.691	-
103 PCB 144	HxCB 362 360	21.82 NotFnd	:	no *			0		no	0.618	
	HxCB 362	22.07	*	no					110	0.010	
104 PCB 147/149	360 HxCB 362	NotFnd 22,36	:	no	*		0.001		no	0.809	-
105 PCB 134/143	360	NotFnd	•	*	*		0.001		no	0.689	-
106 PCB 139/140	HxCB 362 360	22.61	:	no			0.004			0.004	
100 PCB 139/140	HxCB 362	NotFnd 22.88	•	no	-		0.001		по	0.804	-
107 PCB 131	360	NotFnd	*	*	•		0.002		no	0.649	-
108 PCB 142	HxCB 362 360	23.05 NotFnd		no *			0.001		no	0.718	_
	HxCB 362	23.19	*	no					110		
109 PCB 132	360 HxCB 362	NotFnd 23.44	*	* no	•		0.001		no	0.7	-
110 PCB 133	360	NotFnd	*	*	•		0.001		по	0.786	-
111 PCB 165	HxCB 362 360	23,86 NotFnd	*	по			0.004			0.000	
111 FGB 165	HxCB 362	24.23	•	no			0.001		no	0.992	•
112 PCB 146	360	24.42	2310	1.27	4124	0.008134	0.001	28	no	0.895	-
113 PCB 161	HxCB 362 360	24.43 NotFnd	1814	yes *			0.001	22	no	1.015	
	HxCB 362	24.54	*	no					,,,,		
114 PCB 153/168	360 HxCB 362	24.99 25.01	8608 5864	1.47 по	14472	0.02572	0.001	110 77	no	0.993	-
115 PCB 141	360	NotFnd	*	*	•		0.001	"	no	0.784	-
116 PCB 130	HxCB 362	25.15	:	no *			0.004			0.740	
110 FOB 130	360 HxCB 362	NotFnd 25.53	•	no			0.001		no	0.716	•
117 PCB 137	360	NotFnd	*	*	•		0.001		no	0.675	-
118 PCB 164	HxCB 362 360	25.76 NotFnd	÷	no *			0.001		no	1.109	
	HxCB 362	25.85	•	no					110	1.100	
119 PCB 138/163/1	29 360 HxCB 362	26.13 26.17	7255 5768	1.26	13023	0.027131	0.001	87 69	no	0.847	-
120 PCB 160	360	NotFnd	.*	yes •	*		0.001	09	no	0.943	-
121 PCB 158	HxCB 362 360	26.31 NotFnd		no			0.004			4.400	
121 FOB 136	HxCB 362	26.49		no			0.001		no	1.103	•
122 PCB 128/166	360	NotFnd	•	*	•		0.001		no	0.934	-
123 PCB 159	HxCB 362 360	27.33 NotFnd	:	no *	•		0.001		no	1.254	
	HxCB 362	28. 2 9	•	no							
124 PCB 162	360 HxCB 362	NotFnd 28.55		no	•		0.001		no	1.204	-
125 PCB 167	360	NotFnd	*	*	*		0.001		no	1.103	-
126 PCB 156/157	HxCB 362 360	29.04 NotFnd	•	, vo	*		0.001		20	1.047	_
	HxCB 362	30.20	•	no			0.001		no	1.047	-
127 PCB 169	360	NotFnd	•	*	•		0.001		no	1.04	-
128 PCB 188	HxCB 362 394	33.56 NotFnd	*	no •	•		0.001		no	1.069	
	HpCB 396	23.81	*	no •							
129 PCB 179	394 HpCB 396	NotFnd 24.09		no	-		0.001		no	1.122	-
130 PCB 184	394	NotFnd	•	*	*		0.001		no	1.054	-
131 PCB 176	HpCB 396 394	24.57 NotFnd		no *			0.001		no	1.032	_
	HpCB 396	24.88	*	no			0.001		no	1.032	-
132 PCB 186	394	NotFnd	•	*	•		0.001		no	0.965	-
133 PCB 178	HpCB 396 394	25.28 NotFnd		no ▲			0.001		no	0.77	
	HpCB 396	26.56	*	no							
134 PCB 175	394 HpCB 396	NotFnd 27.16		* no	*		0.001		no	0.803	-
135 PCB 187	394	27.40	2917	1.26	5231	0.011289	0.001	29	no	0.814	-
136 PCB 182	HpCB 396 394	27.40 NotEnd	2314	no *				63			
100 F OD 102	394 HpCB 396	NotFnd 27.61	•	no			0.001		no	0.797	•
	-										

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137 PCB 183		394	NotFnd	*	*	•			0.001		no	1.01	-
138 PCB 185	Hpt	CB 396	27.99	•	no				0.004			0.040	
130 FCB 100	Нр	394 396 CB	NotFnd 28.08		no				0.001		по	0.813	-
139 PCB 174	•	394	NotFnd	*	*	•			0.001		no	0.901	-
140 PCB 177	Нр	CB 396 394	28.24 NotFnd		no *				0.001			0.878	
140 1 00 177	НрО	CB 396	28.65	*	по				0.001		по	0.878	-
141 PCB 181		394	NotFnd	*	•	*			0.001		no	0.887	-
142 PCB 171/		CB 396 394	29.06 NotFnd	*	no *				0.001		no	0.854	_
712 1 00 1711		CB 396	29.28	•	no				0.001		110	0.004	_
143 PCB 172		394	NotFnd	*	*	•			0.001		по	0.869	-
144 PCB 192	нри	CB 396 394	30.93 NotFnd		no *				0.001		no	1.06	_
, 55 152	НрО	CB 396	31.24	*	no				0.001		110	1.00	
145 PCB 193/		394	31.63	4449	1.08	8565	0.013891		0.001	97	no	1.172	-
146 PCB 191	про	CB 396 394	31.59 NotFnd	4117	yes *	*			0.001	36	по	1.186	_
	HpC	CB 396	31.97	*	по								
147 PCB 170	HoC	394 396 B	NotFnd 32.94	*	no	•			0.001		по	1.171	-
148 PCB 190		394	NotFnd	•	•	•			0.001		по	1.165	-
440 DOD 400	HpC	B 396	33.50	•	no *								
149 PCB 189	. НоС	394 396	NotFnd 36.32		no				0		по	0.922	-
150 PCB 202		428	NotFnd		•	•	-0.00342		-0.00342	* *	no	1.031	- 3
151 PCB 201	OcC	B 430 428	28.80 NotFnd		no •		0.00337		0.00227	•		1.070	
131 1 00 201	OcC	B 430	29.72		no		-0.00327		-0.00327	•	no	1.078	
152 PCB 204		428	NotFnd	•	•	•	-0.00332		-0.00332	•	no	1.06	-
153 PCB 197	Occ	B 430 428	30.41 NotFnd		no •		-0.00326		-0.00326		по	1.082	
100 1 02 101	OcC	B 430	30.64	•	по		0.00020		0.00020	•	,,,,	1.002	
154 PCB 200	0-0	428	NotFnd			•	-0.00347		-0.00347	•	no	1.016	-
155 PCB 198/1		B 430 428	30.75 33.70	1521	no 0.88	3253	0.007589		-0.00453	5	no	0.777	_
		B 430	33.69	1732	yes					5			
156 PCB 196	0.40	428 B 430	NotFnd 34.40		*	•	-0.0043		-0.0043		no	0.819	•
157 PCB 203	OCC	428	NotFnd	•	no •	•	-0.00427		-0.00427		по	0.825	
	OcC	B 430	34.60	•	no					*			
158 PCB 195	Orr	428 B 430	NotFnd 36.05		no		-0.00239		-0.00239		по	0.931	-
159 PCB 194		428	38.63	-938.95	0.89	-1993.95	-0,00376	PCB 194 NDR	-0.00231	4	хL	0.962	- 1
460 DOD 005	Occ	B 430	38.68	-1055	оĸ		0.00004		0.00004	3	70.6		
160 PCB 205	OcC	428 B 430	NotFnd 39,22	•	ПО		-0.00224		-0.00224		no	0.992	-
161 PCB 208		462	NotFnd	•	*	•			0.001		no	1.042	-
162 PCB 207	NoC	B 464 462	35.81 NotFnd	*	no *				0.004			4 202	
102 FGB 207	NoC	B 464	36.85	•	no				0.001		no	1.302	-
163 PCB 206		462	NotFnd	*	*	•			0.002		по	1.017	-
164 PCB 209	NoC	B 464 498	41.17 43.06	1416	no 1.24	2561	0.007344		0.001	79	no	1.026	_
	DC	B 500	43.06	1144	yes		0.007.011		0.001	8	110	1.020	
165 PCB 1L		200	8.82	51976	2.86	70180	0.078514		0.004	793	no	0.997	39
166 PCB 3L		202 200	8.82 10.00	18204 53286	yes 3.24	69707	0.074037		0.004	23 811	no	1.05	37
		202	9.99	16421	yes					21			
167 PCB 4L		234 236	10.11 10.10	2155 7 13285	1.62 yes	34843	0.083696		0.003	114 143	no	0.464	42
168 PCB 15L		234	12.70	68306	1.47	114667	0.109528		0.002	116	no	1.168	55
460 DCD 401		236	12.69	46361	yes	45000	0.00404		0.000	175		0.500	
169 PCB 19L		268 270	11.48 11.47	22488 22781	0.99 yes	45269	0.09424		0.006	37 66	no	0.536	47
170 PCB 37L		268	16.35	79302	1.05	154476	0.170661		0.005	107	no	1.848	85
171 PCB 54L		2 7 0 302	16.35 12.82	75173 21099	yes 0.76	48944	0.124565		0.002	105 102	no	0.802	62
		304	12.82	27845	yes	40044	0.124000		0.002	283	110	0.002	02
172 PCB 81L		302	20.99	63307	0.76	146510	0.187231		0.001	357	no	1.597	94
173 PCB 77L		304 302	20.97 21.42	83203 65772	yes 0.76	151964	0.193026		0.001	566 360	no	1.607	97
		304	21.42	86192	yes					573			
174 PCB 104L		338 340	15.62 15.64	44636 26758	1.67 yes	71394	0.168145		0	2272 1768	по	0.912	84
175 PCB 123L		338	23.05	90293	1.53	149295	0.202752		0.001	635	по	1.581	101
474 000 444		340	23.02	59002	yes					777			
176 PCB 118L		338 340	23.33 23.31	85213 52476	1.62 yes	137689	0.195811		0.001	591 700	no	1.51	98
177 PCB 114L		338	23.80	82410	1.56	135141	0.197228		0.001	568	no	1.471	99
479 DCD 4051		340	23.78	52731	yes	420024	0.407004		0.004	699		4 400	00
178 PCB 105L		338 340	24.35 24.34	83819 52805	1.59 yes	130024	0.197084		0.001	573 731	no	1.488	99
179 PCB 126L		338	27.19	77936	1.58	127282	0.189691		0.001	5 03	no	1.44	95
180 PCB 155L		340 372	27.15 19.24	49347 53187	yes 1.21	96987	0.197319		0	644 3706	no	1.01	99
100 F OD 100L		374	19.26	43800	yes	30301	3.101313		U	3406	110	1.01	99
181 PCB 167L		372	29.01	75900	1.33	132927	0.191866		0.002	175	no	1.424	96
182 PCB 156L/	157L	374 372	29.00 30 .17	57026 158565	yes 1.27	283181	0.38945		0.002	608 306	no	1.495	97
		374	30.15	124616	yes					1117			
183 PCB 169L		372 374	33.53 33.54	43699 38045	1.15	81743	0.110703		0.002	100	no	1.518	55
		314	55.54	50040	yes					386			

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	184	PCB 188L	406 408	23.78 23.78	58886 54394	1.08 yes	113280	0.203812		0	914 2603	по	1.142	102
	185	PCB 180L	406 408	31.59 31.58	54712 50545	1.08	105257	0.191355		0.001	311	no	1.343	96
	186	PCB 170L	406	32.90	44372	yes 1	88550	0.189386		0.002	1371 248	no	1.141	95
	187	PCB 189L	408 406	32.89 36.29	44178 76530	yes 1.07	148342	0.188306		0.001	1196 378	no	1.923	94
77	188	PCB 202L	408 440	36.29 28.77	71812 53624	yes 0.98	108256	0.195328		0	459 4156	no	1.353	98
			442	28.76	54632	yes	ČĆ.				2696	10 N.T	,,,,,,	
····	189	PCB 205L	440	39.19	55085	0.96	112339	0.192592	14.4	0.001	646	по	1.424	96
			442	39.19	57255	yes					815			•••
	190	PCB 208L	474	35.78	44471	0.75	103899	0.193707		0.001	654	по	1.309	97
			476	35.79	59427	yes					932			
	191	PCB 206L	474	41.17	35845	0.79	81006	0.214122		0.001	508	no	0.924	107
			476	41.20	45161	yes					622			
	192	PCB 209L	510	43.02	36615	1.17	67941	0.200222		0	2195	no	0.828	100
			512	43.06	31326	yes					1763			
	193	PCB 28L	268	14.11	70653	1.04	138384	0.143468		0.004	103	no	1.969	65
		PCB Cleanup Standard	270	14.13	67731	yes					104			
	194	PCB 111L	338	21.42	74598	1.56	122343	0.191303		0	2418	no	1.373	86
		PCB Cleanup Standard		21.40	47745	yes					1402			
	195	PCB 178L	406	26 .51	35797	1.02	70964	0.199181		0.001	519	no	0.732	90
		PCB Cleanup Standard		26.52	35167	yes					1570			
	196	PCB 31L	268	NotFnd	•	•	*			0.005		no	1.878	
		PCB Audit Standard		13.98	*	no								
	197	PCB 95L	338	NotFnd	•	*	*			0		no	0.916	
		PCB Audit Standard		17.38	*	no								
	198	PCB 153L	372	NotFnd	*	*	*			0.001		no	1.173	
		PCB Audit Standard		24.98		no								
	199	PCB 9L	234	10.99	60749 3	1.57	995782	2.471864		-	1120	no	-	-
		PCB Recovery Standard		11.00	388289	yes					1645			
	200	PCB 52L	302	15.07	243754	0.81	544251	2.429918		-	1617	no	-	-
		PCB Recovery Standard		15.05	300497	yes					3240			
	201	PCB 101L	338	19.38	317156	1.58	517508	2.54406		-	11079	no	-	-
		PCB Recovery Standard		19.36	200353	yes					6306			
	202	PCB 138L	372	26.10	304888	1.29	540475	2.606389		-	3227	no	-	-
	202	PCB Recovery Standard PCB 194L	3/4 440	26.07 38.65	235587 218180	yes	455445	0.400074			2275			
	203	PCB Recovery Standard		38.59	236935	0.92 yes	455115	2.436971		-	2554 3341	no	-	•
		Chlorobiphenyls						-0.001	0	-0.001				
		Dichlorobiphenyls						0.010181	1	-0.007				
		Trichlorobiphenyls						0.020675	4	-0.003				
		Tetrachlorobiphenyls						0.076978	6	-0.003				
		Pentachlorobiphenyls						0.103502	5	-0.001				
		Hexachlorobiphenyls						0.060985	3	-0.002				
		Heptachlorobiphenyls						0.02518	2	-0.001				
		Octachlorobiphenyls						0.007589	1	-0.00453				
		Nonachlorobiphenyls						-0.002	0	-0.002				
		Decachlorobiphenyl						0.007344	1	-0.001				
		PCB (total)						0.312434						

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Dataset:

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Printed:

Monday, June 12, 2017 10:34:35 AM

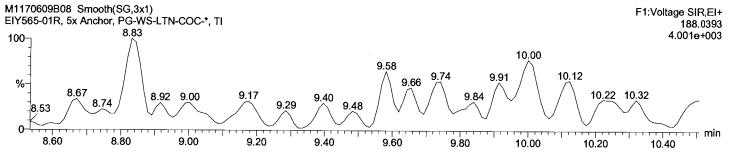
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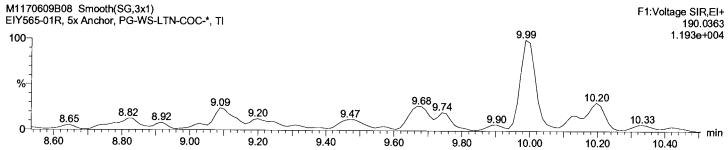
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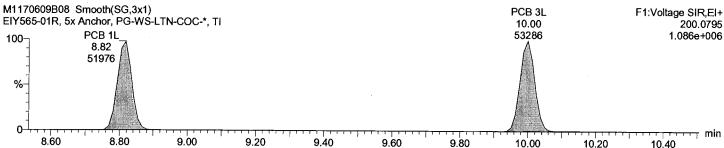




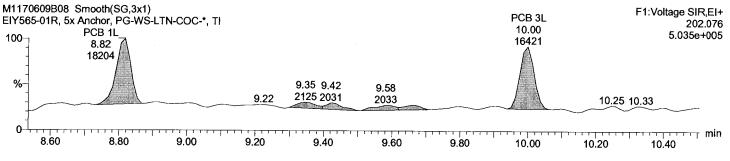
Total MoCB F1



Total MoCB labeled F1



Total MoCB labeled F1



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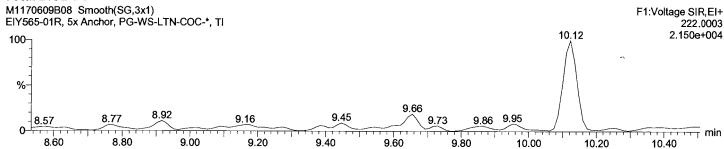
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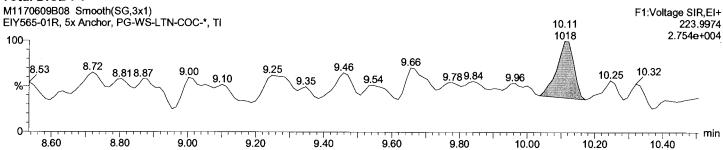
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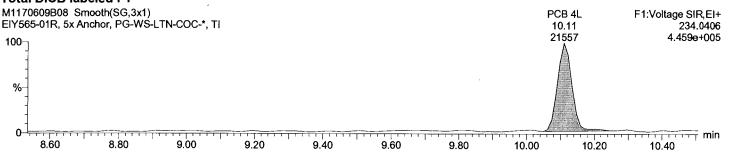
Total DiCB F1



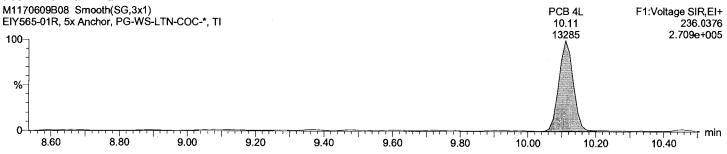








Total DiCB labeled F1



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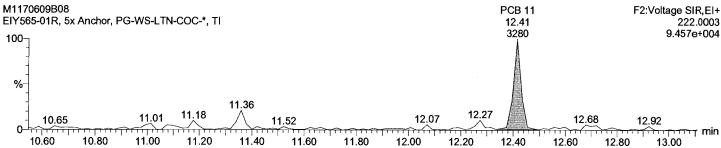
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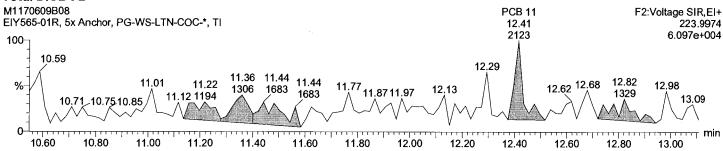
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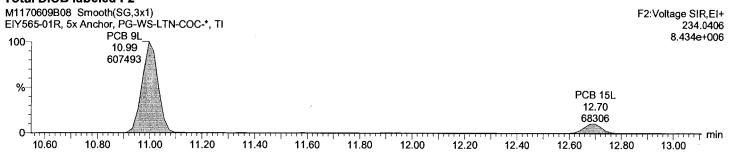




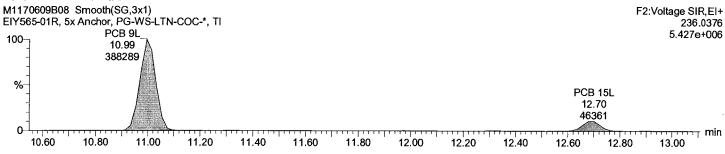
Total DiCB F2



Total DiCB labeled F2



Total DiCB labeled F2



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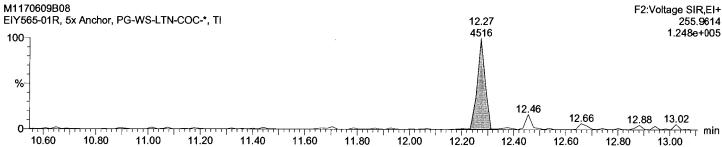
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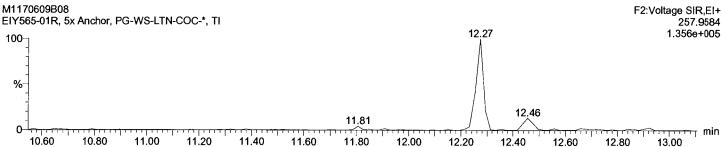
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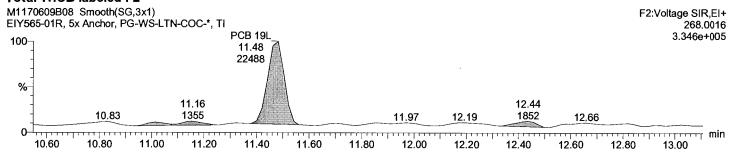


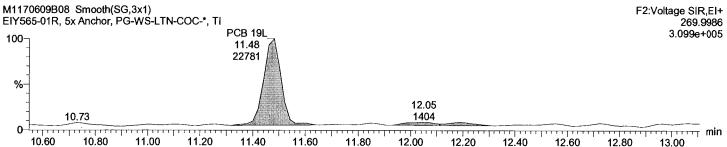


Total TriCB F2



Total TriCB labeled F2





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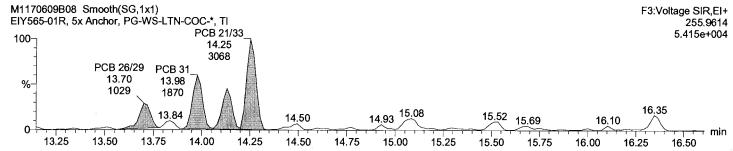
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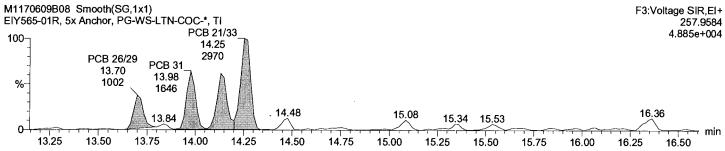
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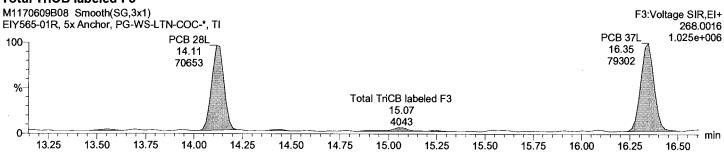
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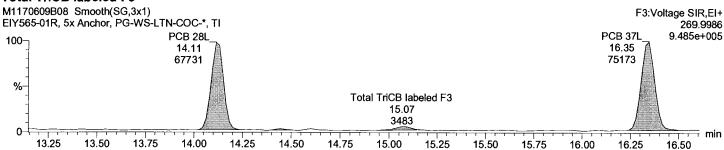


Total TriCB F3



Total TriCB labeled F3





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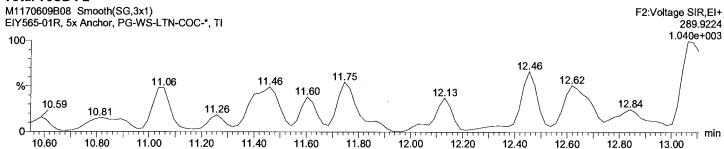
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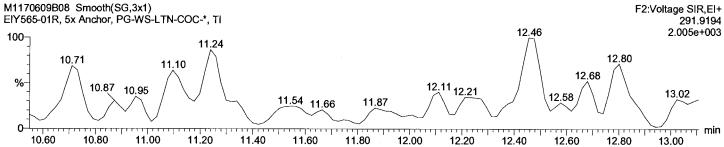
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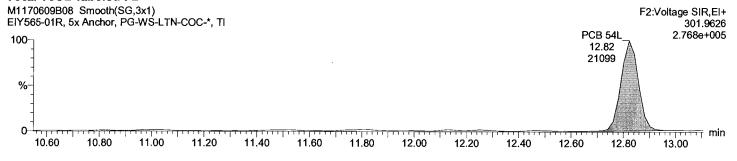
Total TeCB F2

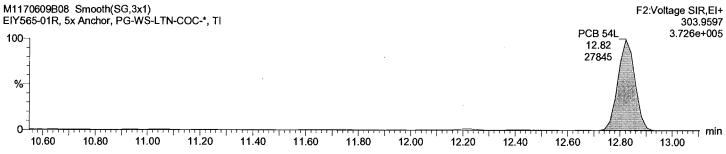


Total TeCB F2



Total TeCB labeled F2





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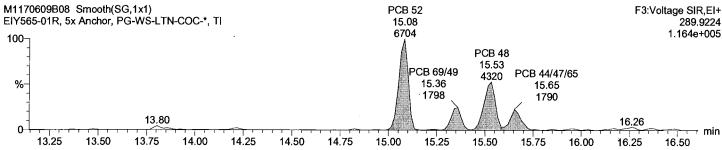
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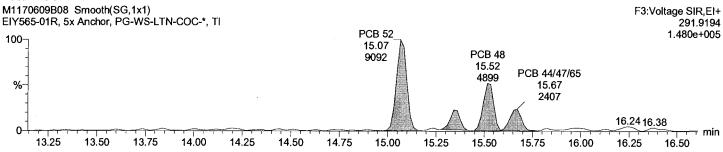
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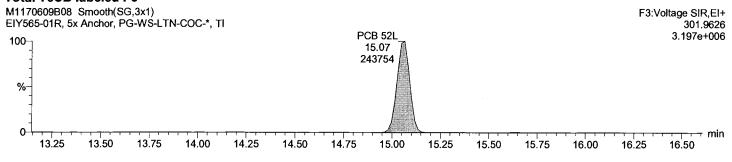


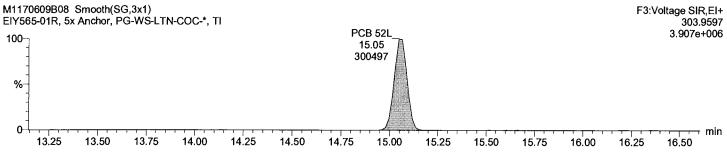


Total TeCB F3



Total TeCB labeled F3





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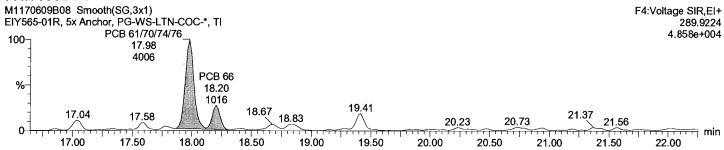
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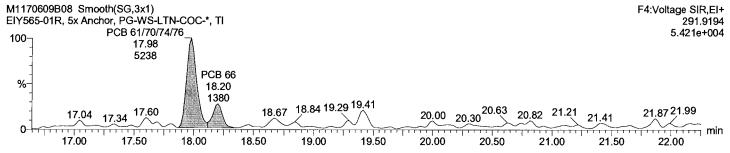
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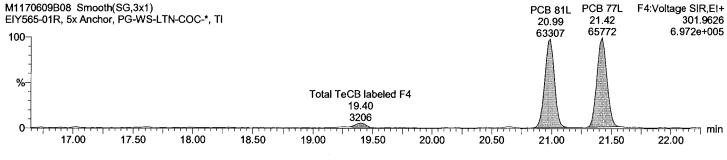
Total TeCB F4

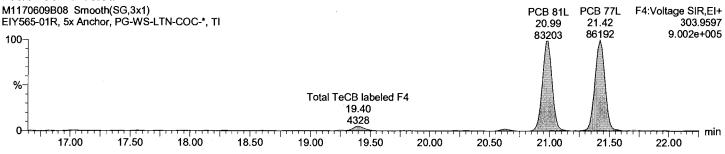


Total TeCB F4









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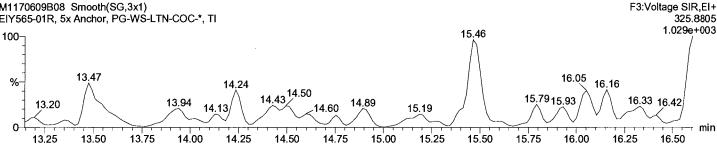
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Vial: 8

Date: 10-Jun-2017 Time: 00:32:18 Instrument:

Total PeCB F3

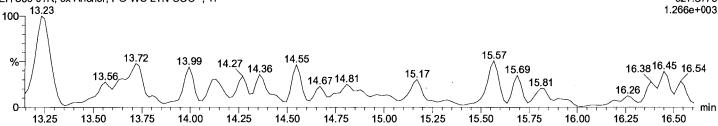
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Total PeCB F3

M1170609B08 Smooth(SG,3x1) EIY565-01R, 5x Anchor, PG-WS-LTN-COC-*, TI





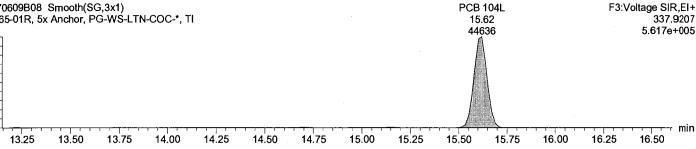
Total PeCB labeled F3

100-

%

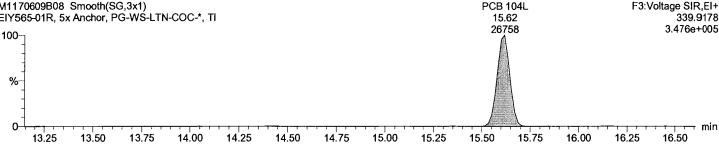
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M1170609B08 Smooth(SG,3x1) EIY565-01R, 5x Anchor, PG-WS-LTN-COC-*, TI



Total PeCB labeled F3

M1170609B08 Smooth(SG,3x1) EIY565-01R, 5x Anchor, PG-WS-LTN-COC-*, TI



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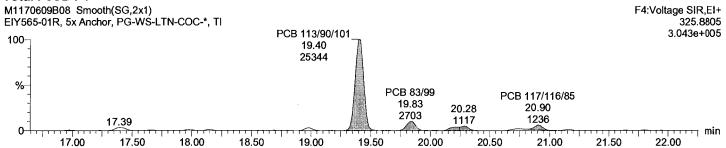
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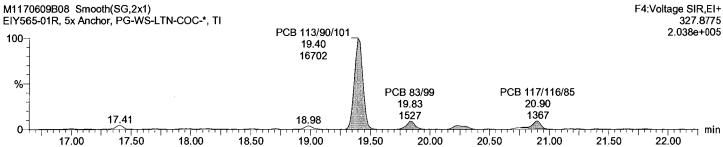
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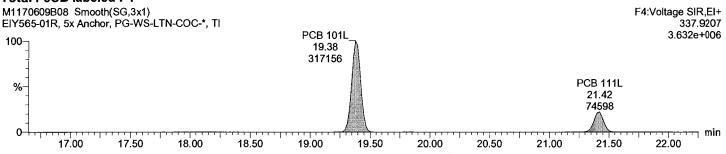


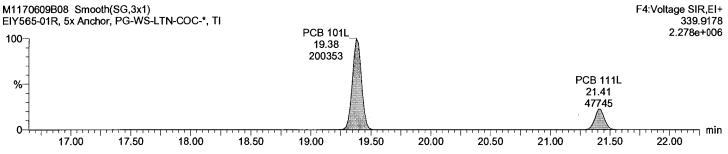


Total PeCB F4



Total PeCB labeled F4





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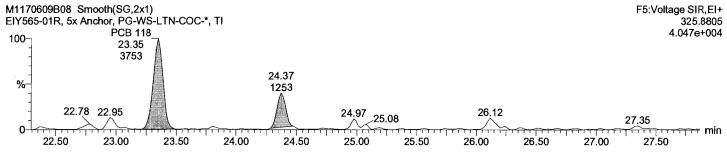
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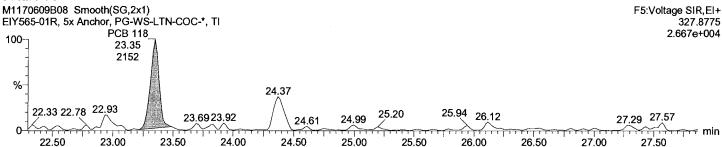
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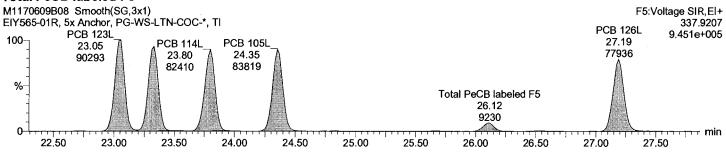
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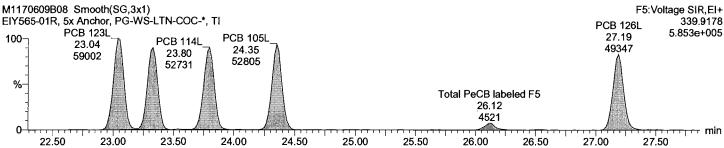


Total PeCB F5



Total PeCB labeled F5





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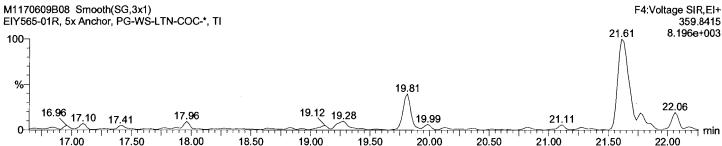
Monday, June 12, 2017 10:34:35 AM

Description: EIY565-01R, 5x

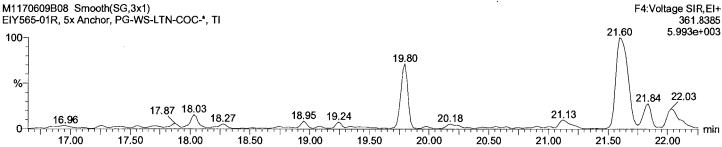
Vial: 8

Date: 10-Jun-2017 Time: 00:32:18 Instrument:

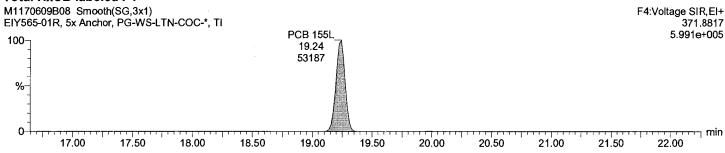


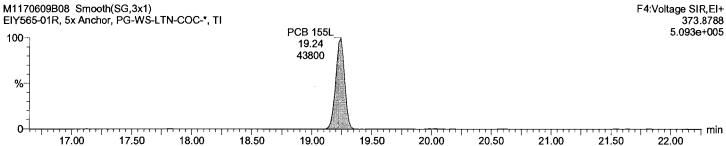


Total HxCB F4



Total HxCB labeled F4





Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

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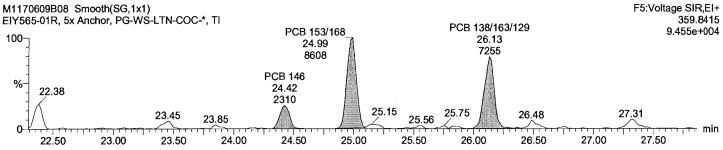
Monday, June 12, 2017 10:33:50 AM Monday, June 12, 2017 10:34:35 AM

Description: EIY565-01R, 5x

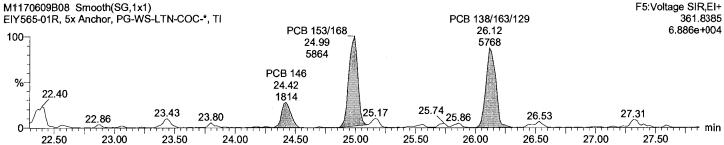
Vial: 8

Date: 10-Jun-2017 Time: 00:32:18 Instrument:

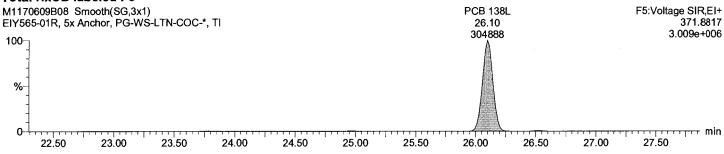


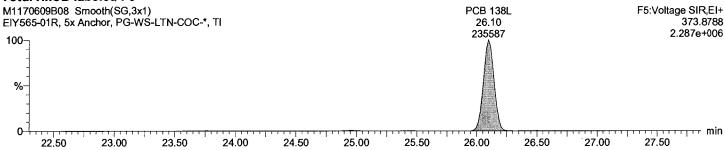






Total HxCB labeled F5





Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

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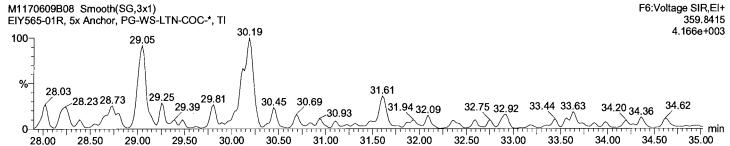
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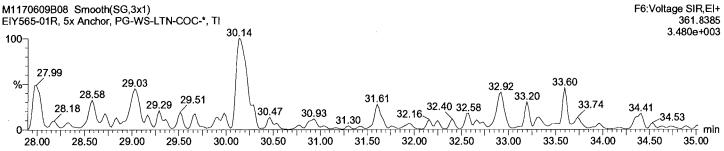
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Date: 10-Jun-2017 Time: 00:32:18 Instrument:

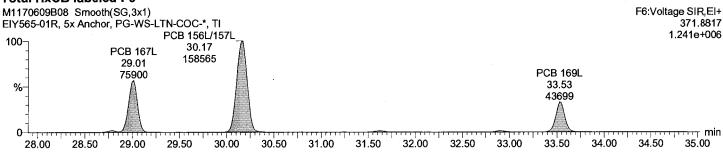


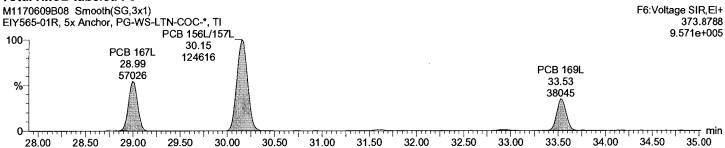


Total HxCB F6



Total HxCB labeled F6





Dataset:

C:\MassLynx\Default.pro\M1170609B \M1170609B dil 1668A.qld

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Monday, June 12, 2017 10:33:50 AM

Printed:

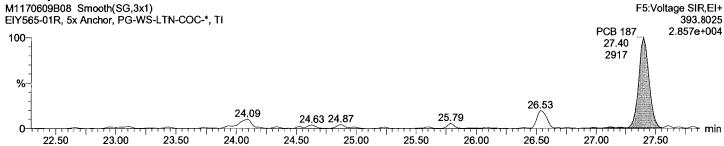
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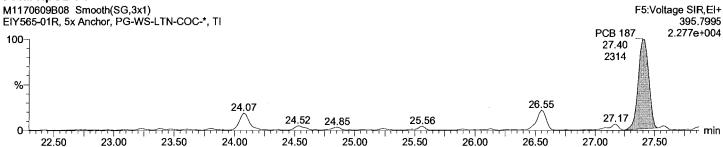
Vial: 8

Date: 10-Jun-2017 Time: 00:32:18 Instrument:

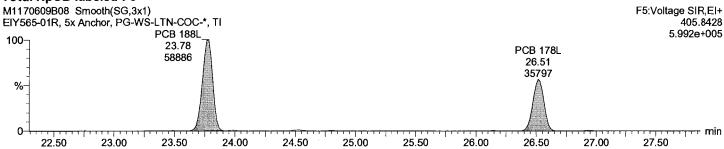


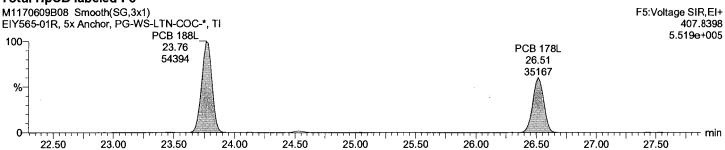


Total HpCB F5



Total HpCB labeled F5





Dataset:

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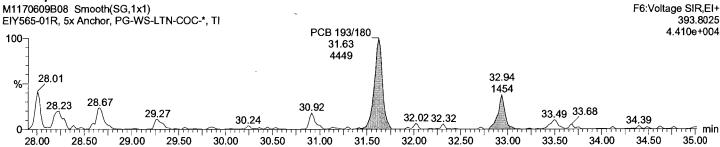
Monday, June 12, 2017 10:33:50 AM Monday, June 12, 2017 10:34:35 AM

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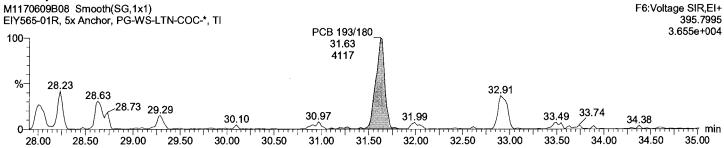
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Date: 10-Jun-2017 Time: 00:32:18 Instrument:

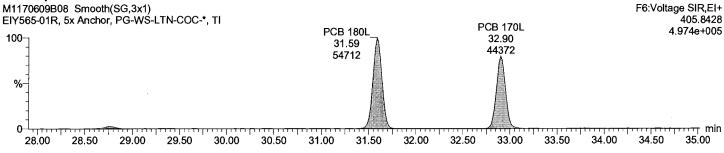


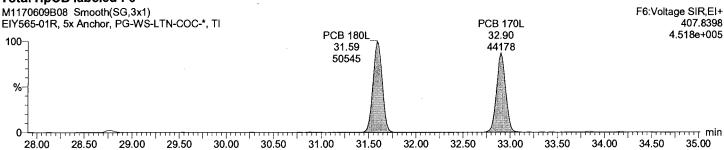


Total HpCB F6









Dataset:

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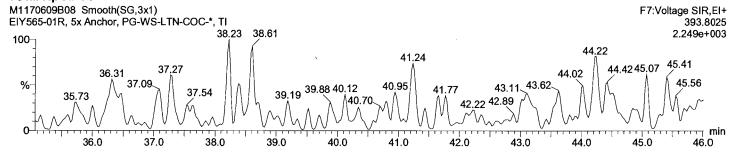
Monday, June 12, 2017 10:33:50 AM Monday, June 12, 2017 10:34:35 AM

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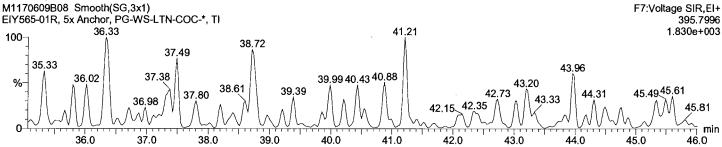
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Date: 10-Jun-2017 Time: 00:32:18 Instrument:

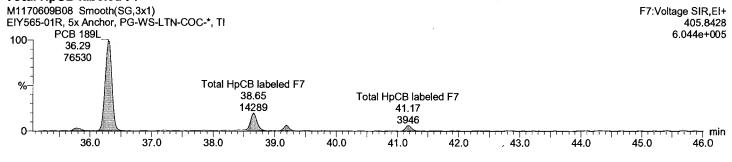


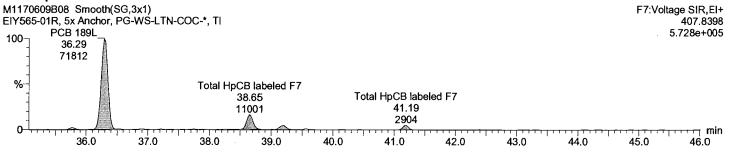


Total HpCB F7



Total HpCB labeled F7





Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

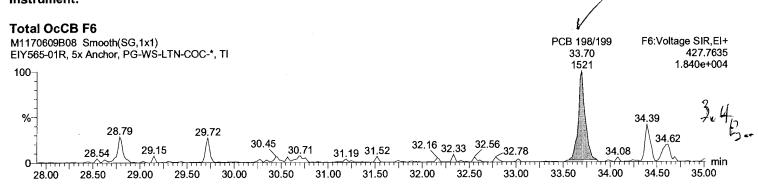
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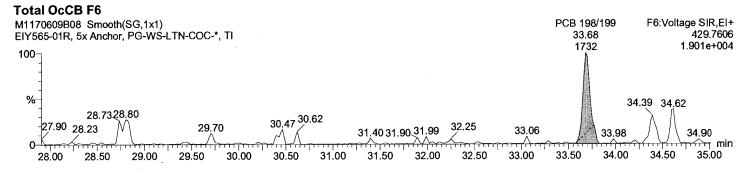
Monday, June 12, 2017 10:33:50 AM Monday, June 12, 2017 10:34:35 AM

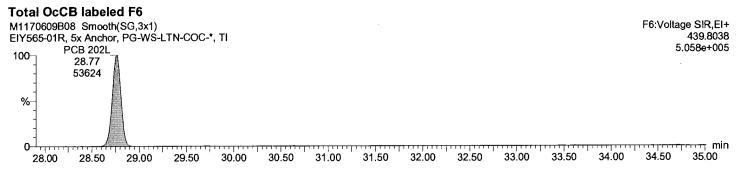
Description: EIY565-01R, 5x

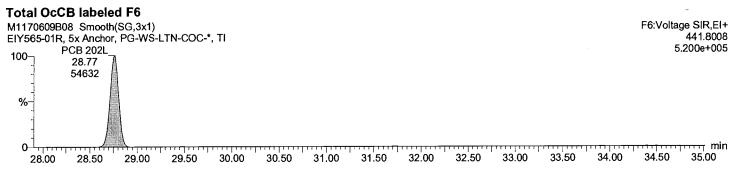
Vial: 8

Date: 10-Jun-2017 Time: 00:32:18 Instrument:









Dataset:

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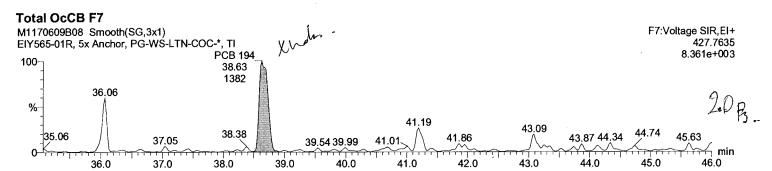
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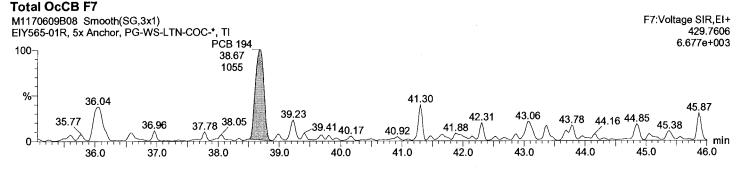
Monday, June 12, 2017 10:33:50 AM Monday, June 12, 2017 10:34:35 AM

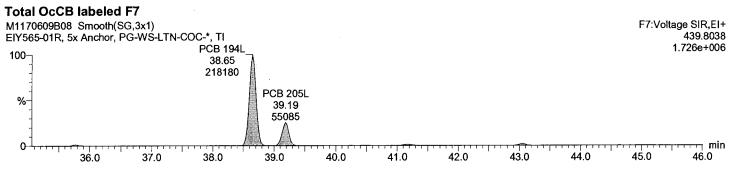
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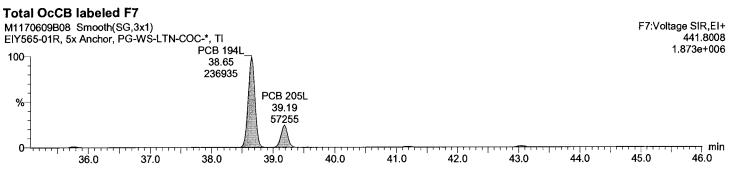
Vial: 8

Date: 10-Jun-2017 Time: 00:32:18 Instrument:









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Last Altered: Printed:

Monday, June 12, 2017 10:33:50 AM

Monday, June 12, 2017 10:34:35 AM

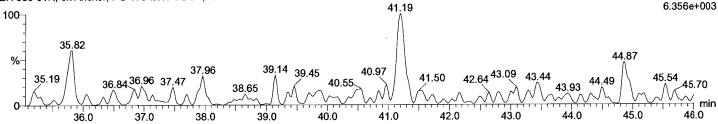
Description: EIY565-01R, 5x

Vial: 8

Date: 10-Jun-2017 Time: 00:32:18 Instrument:

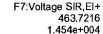


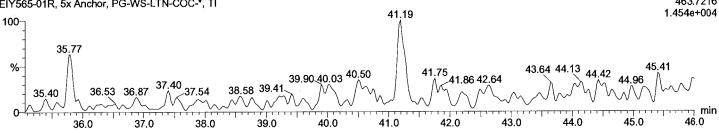
M1170609B08 Smooth(SG,3x1) EIY565-01R, 5x Anchor, PG-WS-LTN-COC-*, TI F7:Voltage SIR,EI+ 461.7246 6.356e+003



Total NoCB F7

M1170609B08 Smooth(SG,3x1) EIY565-01R, 5x Anchor, PG-WS-LTN-COC-*, TI





PCB 206L

41.17

35845

41.0

PCB 206L

41.17

45161

41.0

42.0

42.0

43.06 1598

43.0

43.00

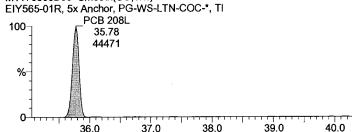
43.0

44.0

44.0

Total NoCB labeled F7

M1170609B08 Smooth(SG,3x1)



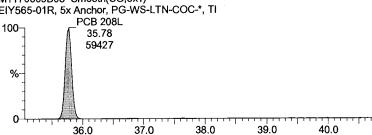


3.560e+005

45.0

Total NoCB labeled F7

M1170609B08 Smooth(SG,3x1) EIY565-01R, 5x Anchor, PG-WS-LTN-COC-*, TI





min

46.0

−− min 45.0 46.0

36.0

Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered: Printed:

Monday, June 12, 2017 10:33:50 AM Monday, June 12, 2017 10:34:35 AM

Description: EIY565-01R, 5x

36.0

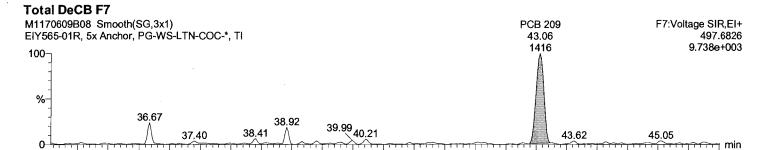
37.0

38.0

39.0

Vial: 8

Date: 10-Jun-2017 Time: 00:32:18 Instrument:



41.0

42.0

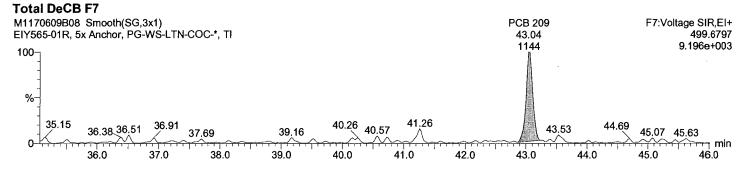
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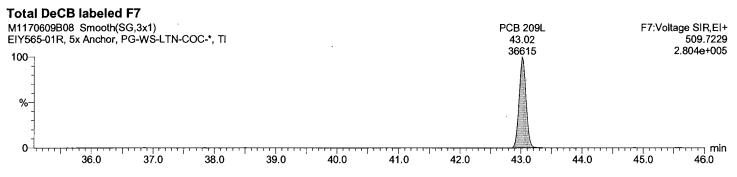
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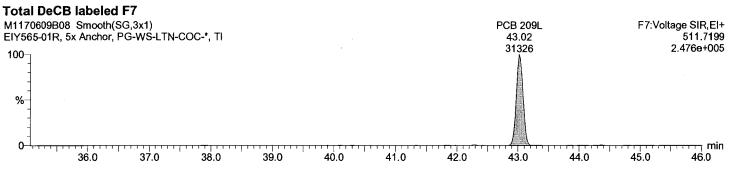
45.0

46.0

40.0







Dataset:

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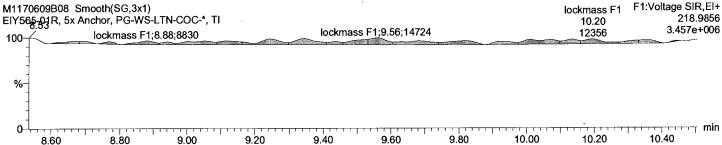
Monday, June 12, 2017 10:33:50 AM Monday, June 12, 2017 10:34:35 AM

Description: EIY565-01R, 5x

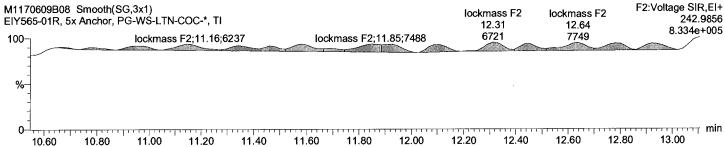
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Date: 10-Jun-2017 Time: 00:32:18 Instrument:

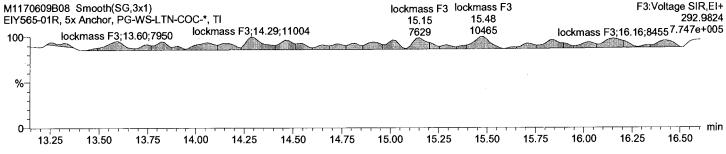




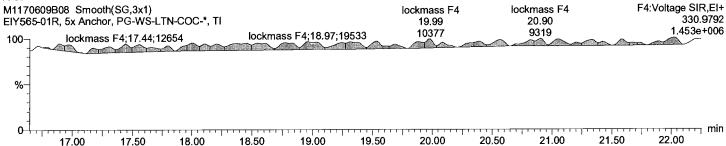
lockmass F2



lockmass F3



lockmass F4



Dataset:

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Monday, June 12, 2017 10:33:50 AM

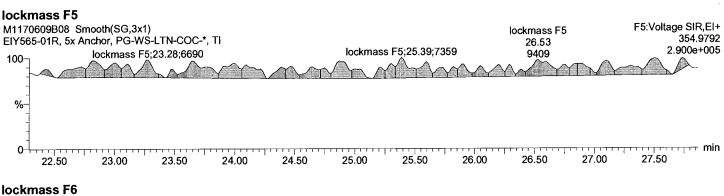
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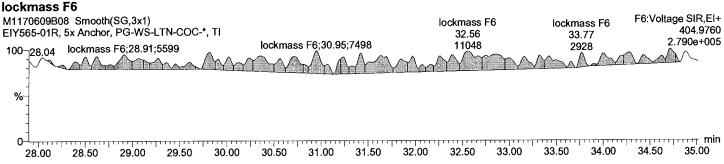
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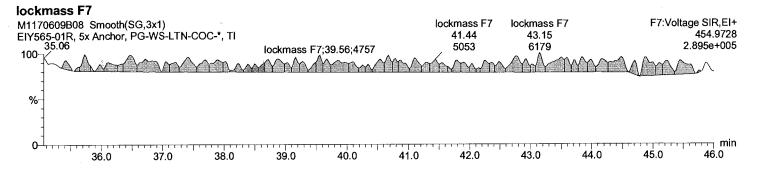
Description: EIY565-01R, 5x

Vial: 8

Date: 10-Jun-2017 Time: 00:32:18 Instrument:







Filename M1170609B09 Acquired 06/10/2017 1:22

Call File PCB209_M1170609B

Sample ID EIY565-01R:D1, 5x Comments Instrument File Ultima 1 Sample Size 10.074

Dil Fac 1.00

Name 1 PCB 1	mas 188	NotFnd	Area *	ratio	Tot Are	a ng/g	Code	Isomers	DL 0.001	S/N	Mod no	र्मा 1.053	Rec
2 PCB 2	MoCB 190 188 MoCB 190	NotFnd	:	по *	*				0.001		no	1.198	_
3 PCB 3	188	9.92 NotFnd	•	no *					0.001		no	1.055	
4 PCB 4	MoCB 190 222	10.01 NotFnd	:	no *					0.003				_
5 PCB 10	DiCB 224 222	10.12 NotFnd	:	no *							no	1.191	•
6 PCB 9	DiCB 224 222	10.21 NotFnd		no *					0.002		по	1.156	•
7 PCB 7	DiCB 224 222	11.01 NotFnd	•	no *					0.006		по	1.544	•
8 PCB 6	DICB 224	11.09	*	no					0.006		no	1.399	-
	222 DiCB 224	NotFnd 11.19	:	nο	•				0.006		no	1.424	-
9 PCB 5	222 DICB 224	NotFnd 11.31	:	no	*				0.006		no	1.462	-
10 PCB 8	222 DICB 224	NotFnd 11.38	:	* no	•				0.006		no	1.443	-
11 PCB 14	222 DiCB 224	NotFnd 12.03	*	* no	•				0.006		no	1.506	-
12 PCB 11	222 DICB 224	NotFnd 12,40	*	*	٠				0.006		no	1.42	
13 PCB 13/12	222 DiCB 224	NotFnd	:	ло *	•				0.006		no	1.443	
14 PCB 15	222	12.54 NotFnd	•	no *	•				0.007		no	0.956	_
15 PCB 19	DICB 224 256	12.68 NotFnd	:	no *		•			0.004		no	1.06	
16 PCB 30/18	TriCB 258 256	11.48 1 2.2 7	5238	по 0.99	10531	0.020096			0.002	47			-
17 PCB 17	TriCB 258 256	12.27 NotFnd	5293	yes *						47 77	no	1.033	-
18 PCB 27	TriCB 258 256	12.48 NotFnd	*	no *					0.003		no	0.838	•
19 PCB 24	TriCB 258 256	12.56 NotFnd	•	no *					0.002		no	1.164	-
20 PCB 16	TrICB 258	12.61	•	no					0.002		no	1.35	-
	256 TriCB 258	NotFnd 12.69	:	no	•				0.004		no	0.606	-
21 PCB 32	256 TriCB	NotFnd 12.90	•	по	•				0.002		no	1.334	-
22 PCB 34	256 TriCB 258	NotFnd 13.48	*	no	•				0.001		по	1.427	-
23 PCB 23	256 TrICB 258	NotFnd 13.56	*	no .	*				0.001		no	1.32	-
24 PCB 26/29	256 TriCB 258	NotFnd 13.72	*	*	•				0.001		no	1.443	-
25 PCB 25	256 TriCB 258	NotFnd 13.85	*	no *	*				0.001		no	1.389	
26 PCB 31	256	13.98	1478	no 0.9	3115	0.004022			0.001	16	no	1.527	
27 PCB 28/20	TriCB 258 256	14.01 14.13	1637 1 326	yes 0.96	2706	0.003702			0.001	18 14	no	1.441	
28 PCB 21/33	TriCB 258 2 56	14.16 14.25	1380 2 663	yes 1.05	5186	0.007351			0.001	16 26			•
29 PCB 22	TriCB 258 256	14,27 NotFnd	2523	yes *						26	по	1.391	-
30 PCB 36	TriCB 258 256	14,47 NotFnd	*	no *	,				0.001		по	1.357	
31 PCB 39	TriCB 258 256	15.30 NotFnd	*	no •					0.001		no	1.632	-
32 PCB 38	TriCB 258	15.50	•	no					0.001		no	1.448	-
33 PCB 35	TriCB 258	NotFnd 15.87	•	no					0.001		no	1.474	-
	256 TriCB 258	NotFnd 16.10	:	no	*				0.001		no	1.4	-
34 PCB 37	256 TrICB 258	NotFnd 16.36	:	* no	•				0.001		no	0.951	-
35 PCB 54	290 TCB 292	NotFnd 12.82	*	• no	•				0.001		no	1.071	-
36 PCB 53/50	290 TCB 292	NotFnd 13.86	*	•	•				0.001		no	0.861	-
37 PCB 45/51	290 TCB 292	NotFnd 14.21	*	no *	•			(0.001		по	0.832	_
38 PCB 46	290 TCB 292	NotFnd	*	no *	•			(0.002		по	0.718	_
39 PCB 52	290	14.35 15.07	7305	по 0.73	17334	0.030622			0.001	95	no	0.961	_
40 PCB 73	TCB 292 290	15.05 NotFnd	10029	yes *	*				0.001	107		1.012	
41 PCB 43	TCB 292 290	15.14 NotFnd		no •					0.002		no		•
42 PCB 69/49	TCB 292 290	15.21 15.36	* 1259	по 0.62	3301	0.00588				47	по	0.787	-
	TCB 292	15.33	2042	ло	5001	0.00000		C	0.001	17 19	no	0.953	-

Page 2436 of 2579 Maxxam Analytics

90	PCB 122	D. 05	326	NotFnd	*	*	*		c	.001		по	1.158	-
91	PCB 114	PeCE	328	23.63 NotFnd		по *				.001		80	1.023	_
		PeCE		23,82	•	no				.001		no	1.020	_
92	PCB 105	PeCB	326	NotFnd	:	•	•		0	.001		no	1.024	-
93	PCB 127	Peca	326	24.38 NotFnd	•	по *			n	.001		no	1.256	_
		PeCB	328	25.69	*	по						110	1.200	
94	PCB 126	PeCB	326	NotFnd	:	*	•		O	.001		no	1.093	-
95	PCB 155	rece	360	27,22 NotFnd		no ⋆				0		по	1.103	
		HxCB	362	19.26	•	no								
96	PCB 152	HxCB	360 362	NotFnd 19.40	:	*	•			0		no	0.849	-
97	PCB 150	IIAOD	360	NotFnd	•	no *	•		0	.001		no	0.77	_
00	DOD 400	HxCB		19.53	:	no								
98	PCB 136	HxCB	360 362	NotFnd 19.78	*	no	-			0		no	0.816	-
99	PCB 145		360	NotFnd	•	•	•		0	.001		no	0.755	-
100	PCB 148	HxCB	362 360	20.03 NotFnd	*	no *				.001			0.647	
	102140	HxCB		21.13	*	no			U	.001		no	0.617	•
101	PCB 151/135	NOD	360	NotFnd	•		•		0	.001		no	0.6	-
102	PCB 154	HxCB	360	21.61 NotFnd		no *			0	.001		no	0.691	
		HxCB	362	21.82	*	no							0,001	
103	PCB 144	HxCB	360 362	NotFnd 22.07	:	*	*		0	.001		no	0.618	-
104	PCB 147/149		360	NotFnd	•	no *	•		0	.002		no	0.809	
405	DCD 124/142	HxCB		22.36	•	no								
105	PCB 134/143	HxCB	360 362	NotFnd 22.61	•	no			U	.002		no	0.689	. •
106	PCB 139/140		360	NotFnd	*	*	*		0	.002		no	0.804	-
107	PCB 131	HxCB	362	22.88 NotFnd	÷	no *			0	.003		no	0.649	_
		HxCB	362	23.05	•	no			Ü	.000		110	0.040	
108	PCB 142	HxCB	360 362	NotFnd 23.19	:	no	•		0	.002		no	0.718	-
109	PCB 132		360	NotFnd	*	•	•		0	.002		no	0.7	-
110	PCB 133	HxCB	362 360	23.44 NotFnd		no *			0	000			0.706	
		HxCB		23.86	*	no			U	.002		no	0.786	•
111	PCB 165	HxCB	360	NotFnd	•	*	•		0	.002		no	0.992	-
112	PCB 146		360	24.21 24.42	2156	no 1.55	3547	0.00706	0	.002	12	no	0.895	
440	DOD 464	HxCB		24.41	1391	no *					19			
113	PCB 161	HxCB	360 362	NotFnd 24.53		no	-		0	.002		no	1.015	-
114	PCB 153/168		360	24.98	7752	1.6	12604	0.022606	0	.002	45	no	0.993	-
115	PCB 141	HxCB	362 360	24.99 NotFnd	4852	no *			0	.002	73	no	0.784	
		HxCB	362	25.14	•	no						.,0	0.704	-
116	PCB 130	НхСВ	360 362	NotFnd 25.51		no	•		0	.002		no	0.716	-
117	PCB 137		360	NotFnd	•	*	•		0.	.003		no	0.675	
110	PCB 164	HxCB	362 360	25.75 NotFnd	:	no *				000			4.400	
110	100 104	HxCB		25.83	*	no			U.	.002		no	1.109	-
119 (PCB 138/163/129		360	26.12	5298	1.5	8820	0.018544	0.	.002	29	no	0.847	-
120	PCB 160	HxCB	362 360	26.15 NotFnd	3522	no *	*		0	.002	40	no	0.943	_
		HxCB	362	26.30		no								
121 I	PCB 158	HxCB	360 362	NotFnd 26.47	:	no	•		0.	.002		no	1.103	-
122 [PCB 128/166		360	NotFnd	•	*	*		0.	.002		no	0.934	-
123	PCB 159	HxCB	362 360	27.31 NotFnd	:	no •				0			4.054	
		HxCB	362	28.27	•	no						no	1.254	-
124 F	PCB 162	HxCB	360 362	NotFnd 28.53	*	*	*			0		no	1.204	-
125 F	PCB 167		360	NotFnd	•	no *	*			0		no	1.103	_
100 0	DOD 456/457	HxCB		29.02	•	no				_				
120 1	PCB 156/157	HxCB	360 362	NotFnd 30.18	•	no	-			0		no	1.047	-
127 F	PCB 169		360	NotFnd	*	*	•		0.	001		no	1.04	-
128 F	PCB 188	HxCB	394	33.56 NotFnd	•	no *				0		no	1.069	-
		HpCB :	396	23.79	•	no								
129 F	PCB 179	HpCB :	394 396	NotFnd 24.07	*	no	•			0		no	1.122	-
130 F	PCB 184		394	NotFnd	*	*	•			0		no	1.054	-
131 F	PCB 176	HpCB :	396 394	24.55 NotFnd	:	no *				0		no	1.032	_
		HpCB :	396	24.86	*	no						.,0		-
132 F	PCB 186	HpCB :	394 396	NotFnd 25.26	*	no	•			0		no	0.965	-
133 F	PCB 178	;	394	NotFnd	•	*	•			0		no	0.77	-
134 -	PCB 175	HpCB :	396 394	26,54 NotFnd	•	no *				0		20		
		НрСВ 3	396	27.14	•	no				U		no	0.803	•
135 F	PCB 187	HpCB 3	394 306	27.40	3135	1.35	5462	0.011968		0	89	no	0.814	-
136 F	PCB 182		394	27.38 NotFnd	2327	no *	*			0	88	no	0.797	_
		HpCB 3	396	27.59	•	no								

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137 PCB 183	394	NotFnd	•	•	*			0.001		по	1.01	-
138 PCB 185	HpCB 396 394	27.99 NotFnd		no *				0.001		no	0.813	_
	HpCB 396	28.08		no						110	0.010	
139 PCB 174	394 HpCB 396	NotFnd 28.24		no	•			0.001		no	0.901	-
140 PCB 177	394	NotFnd	•	*	•			0.001		no	0.878	_
141 PCB 181	HpCB 396 394	28.65	*	no *				0.004			0.007	
	HpCB 396	NotFnd 29.06	•	no				0.001		no	0.887	•
142 PCB 171/173	394	NotFnd	*		*			0.001		no	0.854	-
143 PCB 172	HpCB 396 394	29.28 NotFnd		no *	*			0.001		no	0.869	_
	HpCB 396	30.93		по								
144 PCB 192	394 HpCB 396	NotFnd 31.24	:	no	•			0.001		no	1.06	-
145 PCB 193/180	394	31.64	3749	0.99	7524	0.012845		0.001	33	no	1.172	-
146 PCB 191	HpCB 396 394	31.59 NotFnd	3776	yes *				0.001	41	20	1.186	
	HpCB 396	31.97	•	no				0.001		no	1.100	-
147 PCB 170	394 HpCB 396	NotFnd 32.94	*	no	*			0.001		по	1.171	-
148 PCB 190	394	NotFnd	*	*				0.001		no	1.165	
149 PCB 189	HpCB 396	33.50	:	пo				•				
149 FCD 109	394 HpCB 396	NotFnd 36.32	*	no				0		no	0.922	-
150 PCB 202	428	NotFnd		•	•	-0.00206		-0.00206	٠	no	1.031	-
151 PCB 201	OcCB 430 428	28.78 NotFnd	*	no +	•	-0.00197		-0.00197		no	1.078	_
	OcCB 430	29.70	•	no					•			
152 PCB 204	428 OcCB 430	NotFnd 30.39		no	•	-0.002		-0.002		no	1.06	-
153 PCB 197	428	NotFnd	•	•	•	-0.00196		-0.00196	•	по	1.082	_
154 PCB 200	OcCB 430 428	30.62 NotFnd		no •	•	-0.00209		-0.00209			1 016	
	OcCB 430	30.74	•	no		0.00200		-0.00209		по	1.016	·
155 PCB 198/199	428 OcCB 430	33.72 33.67	-1199 -1347.19	0.89 OK	-2546,19	-0.00592	PCB 198/199 NDR	-0.00273	6	хL	0.777	-
156 PCB 196	428	NotFnd	*	•	•	-0.00259		-0.00259		no	0.819	-
157 PCB 203	OcCB 430 428	34.40		no		0.00057		0.00007				
137 FOB 203	OcCB 430	NotFnd 34.60		no		-0.00257		-0.00257		по	0.825	-
158 PCB 195	428	NotFnd		•	JH.	-0.00202		-0.00202	•	no	0.931	-
159 PCB 194	OcCB 430 428	36.05 38.69	1004	no 0.93	2083	0.003908	1990	-0.00195	4	no	0.962	
400 000 005	OcCB 430	38.68	1079	yes					4			
160 PCB 205	428 OcCB 430	NotFnd 39.22		no	•	-0.00189		-0.00189	*	no	0.992	-
161 PCB 208	462	NotFnd		•	•			0.002		no	1.042	-
162 PCB 207	NoCB 464 462	35.81 NotFnd	•	no *	*			0.002			1.302	
	NoCB 464	36.85	*	no				0.002		no	1.302	-
163 PCB 206	462 NoCB 464	NotFnd 41.17	*	no	•			0.003		no	1.017	-
164 PCB 209	498	43.06	1132	0.91	2371	0.006389		0	57	no	1.026	-
165 PCB 1L	DCB 500 200	43.06 8.82	1239 59252	no 2.75	80787	0.089023		0.005	60		0.007	45
100 FOB 12	202	8.82	21535	2.75 yes	00/0/	0.069023		0.005	448 21	no	0.997	45
166 PCB 3L	200	10.00	61802	3.43	79798	0.083482		0.005	470	no	1.05	42
167 PCB 4L	202 234	9.99 10.11	17996 2443 7	yes 1.71	38743	0.091667		0.003	19 115	no	0.464	46
4ca DCD 4rt	236	10.10	14306	yes	40==00				278			
168 PCB 15L	234 236	12.68 12.69	7 9001 48795	1.62 yes	127796	0.120236		0.002	172 350	no	1.168	61
169 PCB 19L	268	11.48	24452	0.95	50110	0.102751		0.005	106	no	0.536	5 2
170 PCB 37L	270 268	11.47 16.35	25658 7777 5	yes 1.06	151310	0.167496		0.003	43 135	no	1.848	84
	270	16.33	73535	yes					148			
171 PCB 54L	302 304	12.82 12.81	21901 28025	0.78 yes	49926	0.127318		0.002	131 516	no	0.802	64
172 PCB 81L	302	20.97	63061	0.73	148991	0.190781		0.001	283	no	1.597	96
173 PCB 77L	304 302	20.95 21.42	85930 66817	yes 0.78	152010	0.193469		0.001	521 295	no	1.607	97
	304	21.40	85193	yes		0.100.100		0.001	504	110	1.007	3,
174 PCB 104L	338 340	15.60 15.64	44471 25830	1.72 yes	70300	0.16853		0	1691 2393	no	0.912	85
175 PCB 123L	338	23.04	90491	1.58	147936	0.204498		0.001	1129	no	1.581	103
176 PCB 118L	340 338	23.02 23.33	57444 83042	yes	139610	0.202003		0.001	582		4 54	400
	340	23.31	5 6568	1.47 yes	139610	0.202093		0.001	1052 556	no	1.51	102
177 PCB 114L	338 340	23.80 23.78	80852 49228	1.64	130081	0.193238		0.001	1042	по	1.471	97
178 PCB 105L	340 338	23.76 24.35	492 2 8 89112	yes 1.71	141352	0.20755		0.001	483 1086	no	1.488	105
470 DCD 4061	340	24.34	52240	yes					511			
179 PCB 126L	338 340	27.19 27.15	75757 48956	1.55 yes	124/13	0.189185		0.001	862 450	no	1.44	95
180 PCB 155L	372	19.24	50526	1.26	90665	0.197452		0	2747	no	1.01	99
181 PCB 167L	374 372	19.26 28.99	40139 7 8833	yes 1.32	138774	0.214418		0.001	1105 891	по	1.424	108
	374	29.00	59941	yes					579			
182 PCB 156L/157L	372 374	30.15 30.15	1 56963 120363	1.3 yes	277327	0.408269		0.001	1428 915	no	1.495	103
183 PCB 169L	372	33.53	42345	1.2	77724	0.112674		0.001	419	no	1.518	57
	374	33.54	35379	yes					311			

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1	84 PCB 188L	406	23.76	58951	1.18	108954	0.209839		0.001	941	no	1.142	106
		408	23.78	50003	yes					1876			
1	85 PCB 180L	406	31.59	50831	1.05	99263	0.178899		0.001	442	по	1.343	90
	00 DOD 4701	408	31.58	48432	yes	0.4700				1256			
1	86 PCB 170L	406	32.90	43031	1.03	84733	0.179656		0.001	361	по	1.141	90
	7 DCD 4001	408	32.89	41701	yes	450004	0.404005			1038		4 000	0.7
1	87 PCB 189L	406	36.29	79489	1.09	152321	0.191685		0.002	319	no	1.923	97
	88 PCB 202L	408 440	36.29 28.75	72832	yes	400000	. 200res	YOU'T VAN PARKE OF DO WITH HER		362	0.200.00200.0020	4.050	******
1	58 PGB 202L	442	28.75 28.76	51116 57090	0.89	108206	0.193552		0	3955	по	1.353	97
	89 PCB 205L	440	39.19	53720	yes 0.92	111882	0.19015		0.004	2292 739		4 40 4	96
	39 FCB 203L	442	39.19	58162		111002	0.19015		0.001	739 561	no	1.424	90
4	90 PCB 208L	474	35.78	46069	yes	404530	0.407000		0.004			4 000	0.5
,	90 PGB 200L	476	35.78	55469	0.83	101538	0.187669		0.001	698	no	1.309	95
4	91 PCB 206L	474	41.17	35964	yes 0.87	77501	0.203087		0.001	777		0.924	102
,	91 POB 200L	476	41.20	41537	yes	77501	0.203007		0.001	514 578	no	0.924	102
4	92 PCB 209L	510	43.02	37903	1.12	71779	0.209705		0	1903		0.000	106
1	92 POB 209L	512	43.02	33876	yes	/1//9	0.209705		U	1402	no	0.828	106
4	93 PCB 28L	268	14.11	76708	1.05	149995	0.155815		0.003	1402		1.969	78
•	PCB Cleanup Standard		14.12	73286		143330	0,100010		0.003	164	no	1.909	10
40	PCB 111L	338	21.41	82465	yes 1.69	131241	0.208887		0	1346		1.373	105
1.	PCB Cleanup Standard		21.40	48776	yes	131241	0.200007		U	1201	no	1.373	105
40	95 PCB 178L	406	26.51	38266	1.09	73338	0.220347		0.001	569	no	0.732	111
•	PCB Cleanup Standard		26.52	35073	yes	73336	0.220347		0.001	1355	110	0.732	111
10	96 PCB 31L	268	NotFnd	*	yes *				0.003	1300	no	1.878	
	PCB Audit Standard		13.97		по				0.003		110	1.070	
10	7 PCB 95L	338	NotFnd	*	*				0.001		no	0.916	
•	PCB Audit Standard		17.38	*	no				0.001		110	0.510	
19	98 PCB 153L	372	24.96	1354	1.03	2663	0.004996		0.002	6	по	1.173	3
	PCB Audit Standard		24.98	1309	no	2000	0.007000		0.002	40	110	1.170	J
19	9 PCB 9L	234	10.99	557561	1.61	903320	2.225983		_	1375	no		-
	PCB Recovery Standard		11.00	345759	yes	******				2767			
20	0 PCB 52L	302	15.05	215402	0.8	485336	2.151067		-	1463	no	-	-
	PCB Recovery Standard	304	15.05	269934	yes					2247	•		
20	1 PCB 101L	338	19.38	282217	1.64	454282	2.216947			5007	no		-
	PCB Recovery Standard	340	19.36	172065	yes					4628			
20	2 PCB 138L	372	26.10	254710	1.3	451144	2.159722			1049	no		_
	PCB Recovery Standard	374	26.07	196434	yes					6624			
20	3 PCB 194L	440	38.65	194820	0.9	410201	2.180451		-	2659	по	-	-
	PCB Recovery Standard	442	38.59	215381	yes					2099			
	Chlorobiphenyls						-0.001	0					
	Dichlorobiphenyls						-0.007	0					
	Trichlorobiphenyls						0.035171	4					
	Tetrachlorobiphenyls						0.079602	6					
	Pentachlorobiphenyls						0.094102	5					
	Hexachlorobiphenyls						0.04821	3					
	Heptachlorobiphenyls Octachlorobiphenyls						0.024813 0.003908	` 2					
	Nonachlorobiphenyls						-0.003	1 0					
	Decachlorobiphenyl						0.006389	1					
	PCB (total)						0.292195	1	v				
	i Oo (total)						0.232130						

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Acquired Date Dataset:

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Printed:

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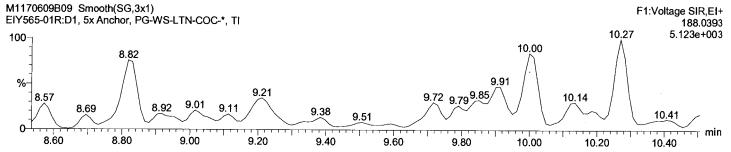
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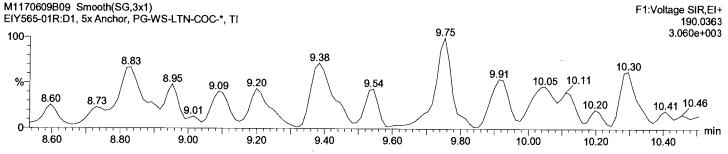
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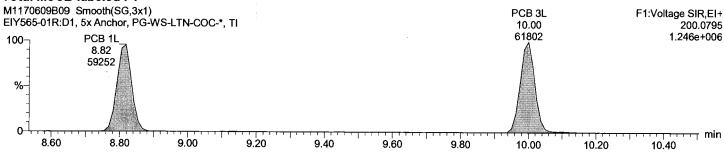
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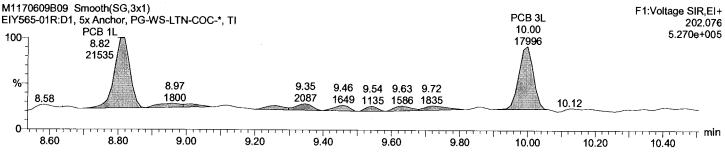








Total MoCB labeled F1



Acquired Date Dataset:

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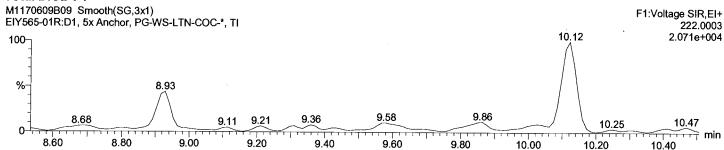
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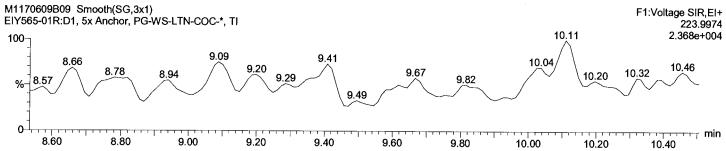
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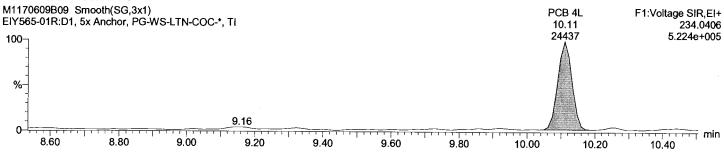
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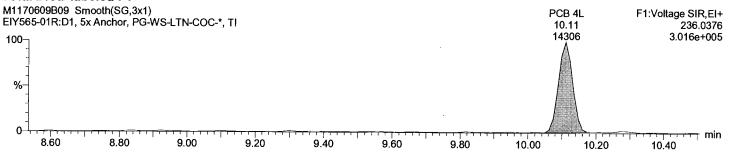
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Total DiCB labeled F1



Total DiCB labeled F1



Acquired Date Dataset:

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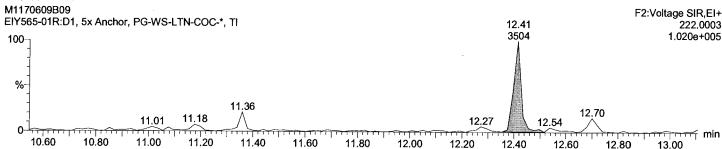
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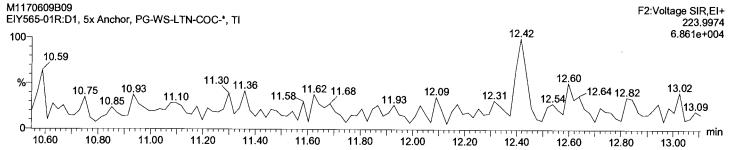
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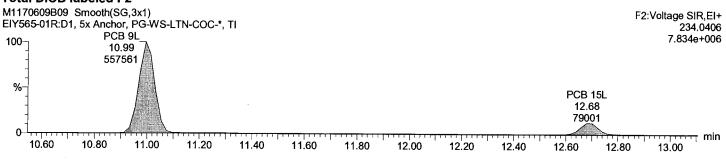
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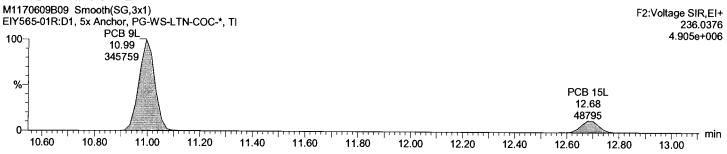
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Total DiCB labeled F2



Total DiCB labeled F2



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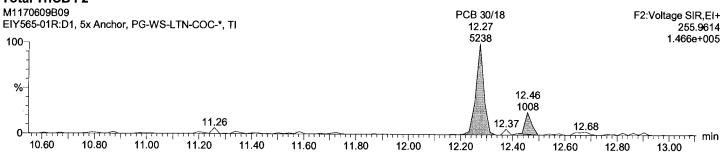
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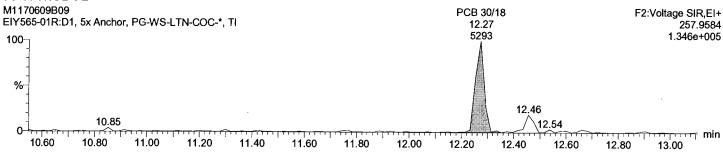
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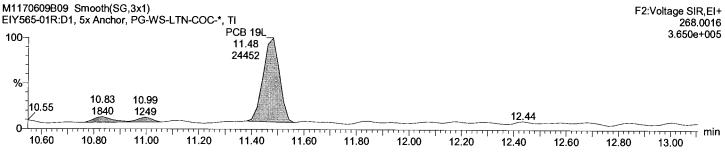




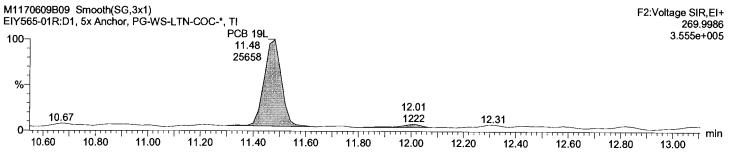
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Total TriCB labeled F2



Total TriCB labeled F2



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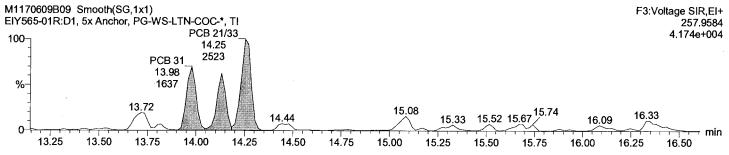
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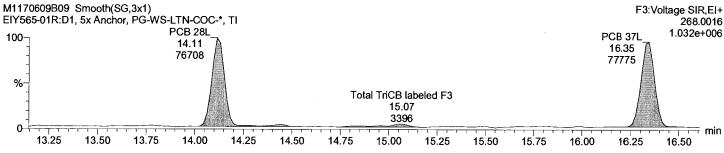
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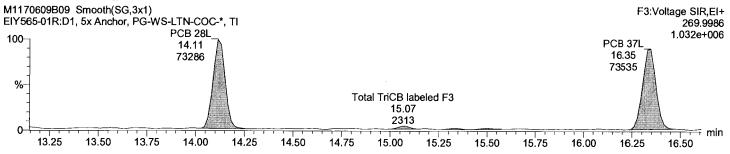
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16.25

16.50

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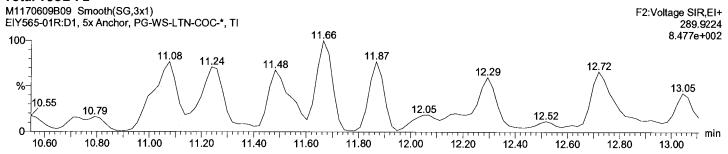
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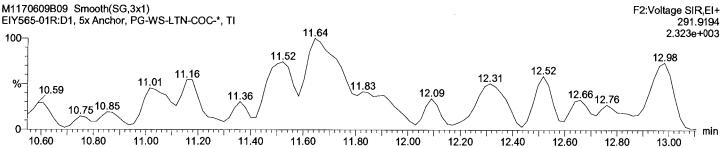
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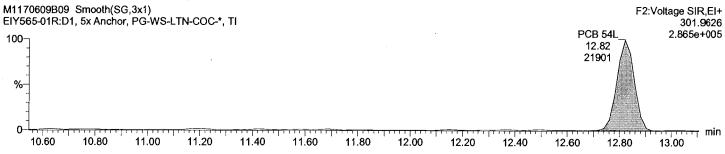
Total TeCB F2



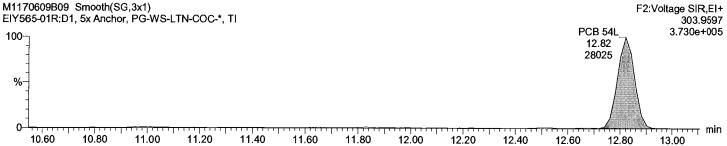
Total TeCB F2



Total TeCB labeled F2



Total TeCB labeled F2



Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

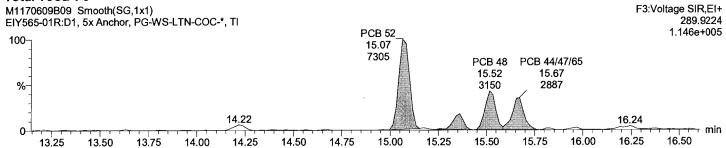
Last Altered: Printed: Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

Description: EIY565-01R:D1, 5x

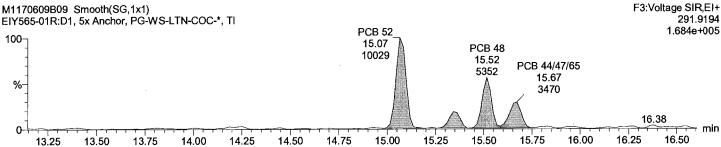
Vial: 9

Date: 10-Jun-2017 Time: 01:22:29 Instrument:

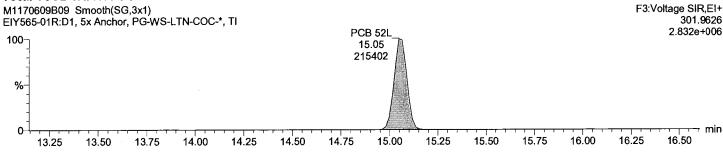
Total TeCB F3



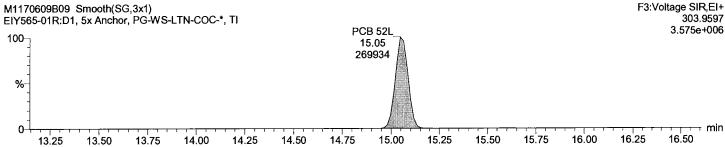
Total TeCB F3



Total TeCB labeled F3



Total TeCB labeled F3



Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

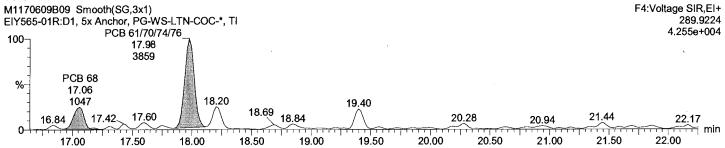
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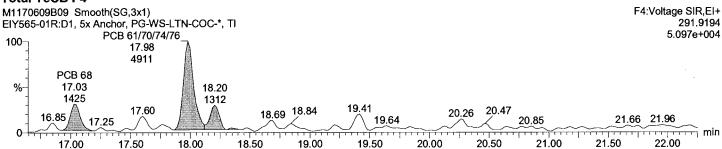
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Date: 10-Jun-2017 Time: 01:22:29 Instrument:

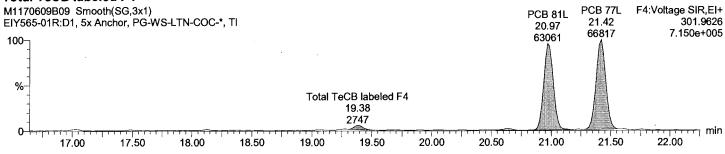
Total TeCB F4



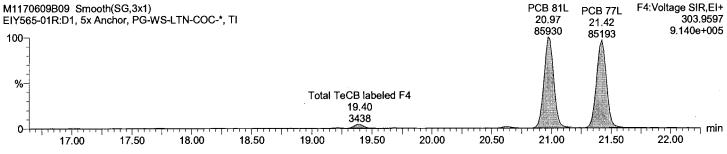
Total TeCB F4



Total TeCB labeled F4



Total TeCB labeled F4



Dataset:

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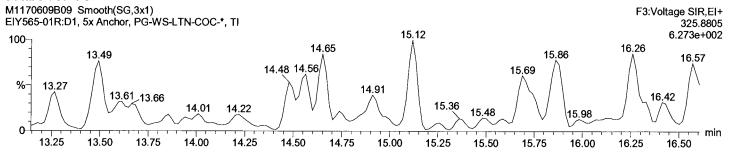
Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

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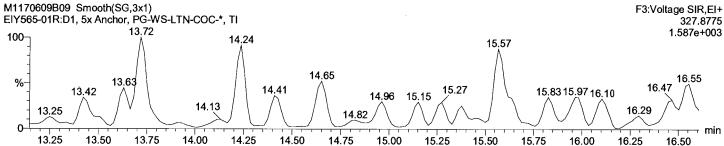
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Date: 10-Jun-2017 Time: 01:22:29 Instrument:

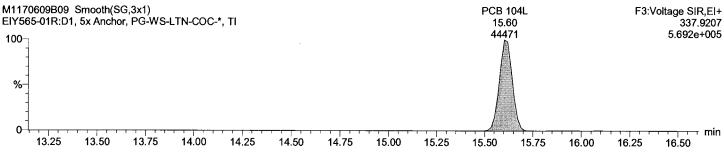
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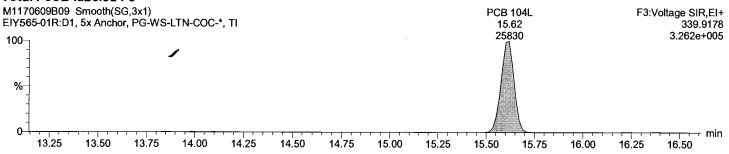




Total PeCB labeled F3



Total PeCB labeled F3



Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

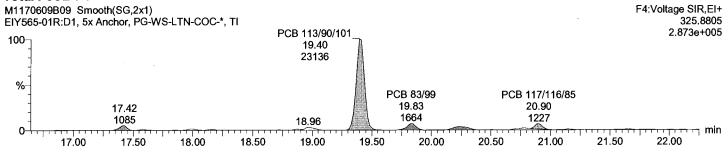
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Description: EIY565-01R:D1, 5x

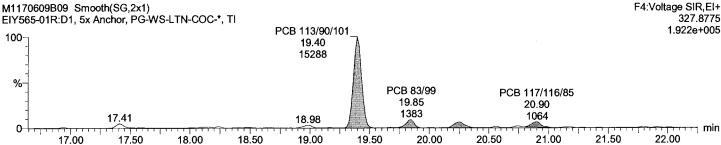
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Date: 10-Jun-2017 Time: 01:22:29 Instrument:

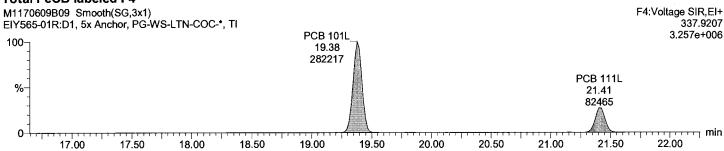




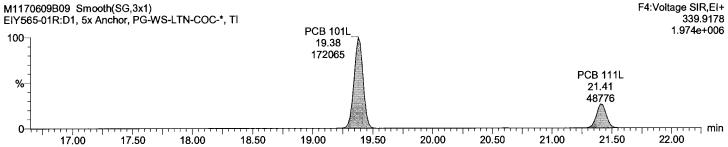
Total PeCB F4



Total PeCB labeled F4



Total PeCB labeled F4



Dataset:

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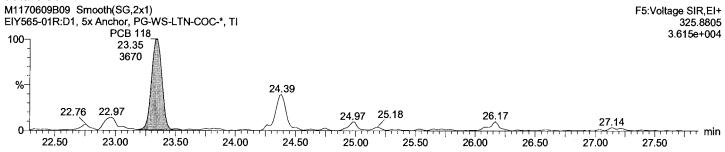
Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

Description: EIY565-01R:D1, 5x

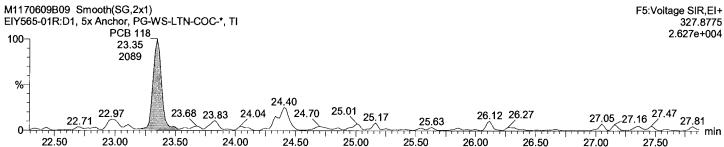
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Date: 10-Jun-2017 Time: 01:22:29 Instrument:

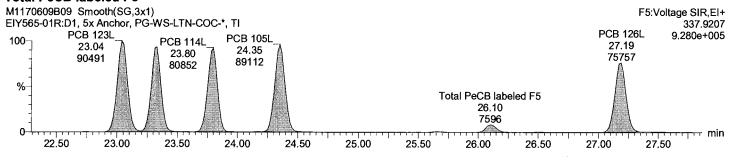
Total PeCB F5



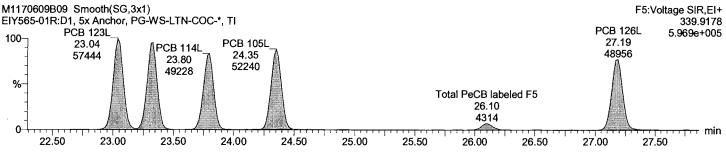
Total PeCB F5



Total PeCB labeled F5



Total PeCB labeled F5



Acquired Date Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

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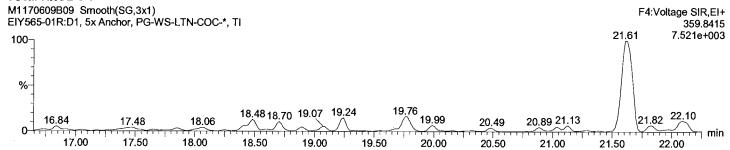
Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

Description: EIY565-01R:D1, 5x

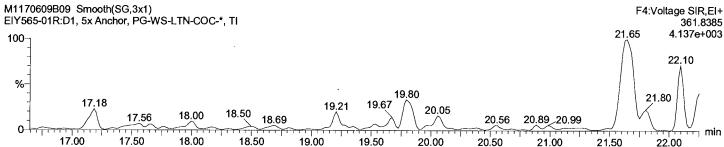
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Date: 10-Jun-2017 Time: 01:22:29 Instrument:

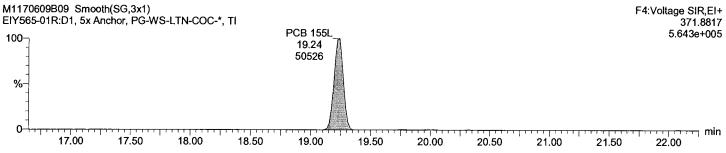
Total HxCB F4

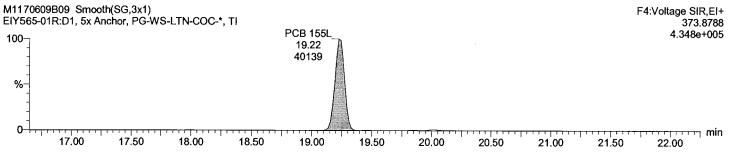


Total HxCB F4



Total HxCB labeled F4





Dataset:

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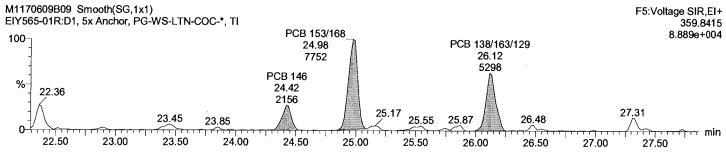
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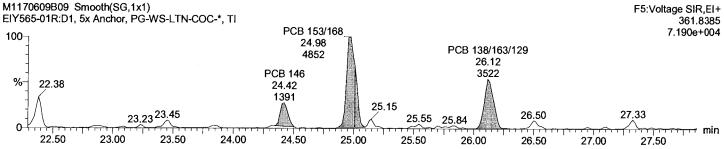
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Date: 10-Jun-2017 Time: 01:22:29 Instrument:

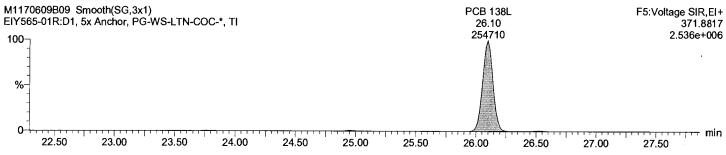
Total HxCB F5

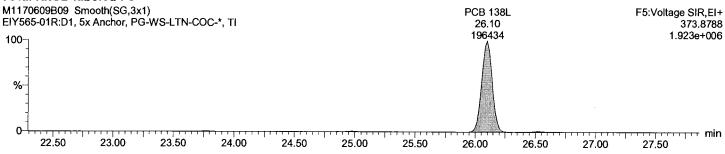


Total HxCB F5



Total HxCB labeled F5





Dataset:

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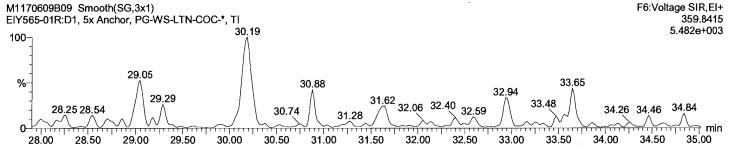
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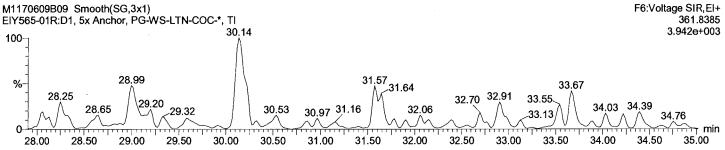
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Date: 10-Jun-2017 Time: 01:22:29 Instrument:

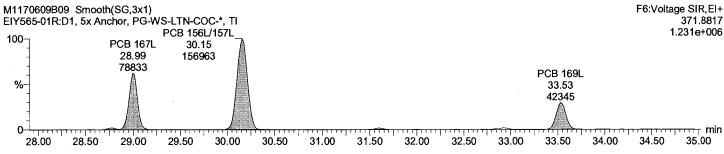
Total HxCB F6

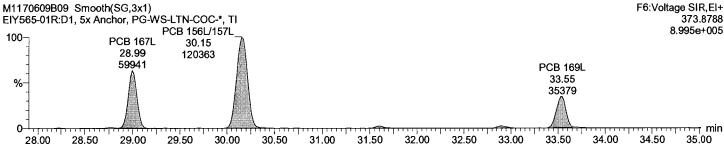


Total HxCB F6



Total HxCB labeled F6





Dataset:

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Last Altered: Printed:

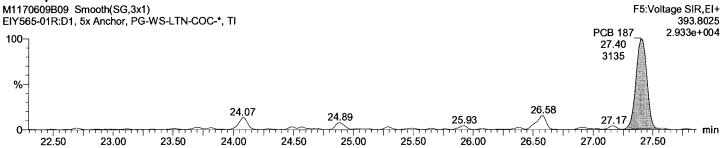
Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

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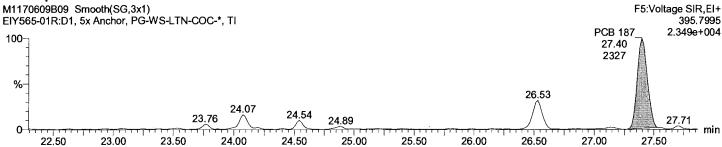
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Date: 10-Jun-2017 Time: 01:22:29 Instrument:

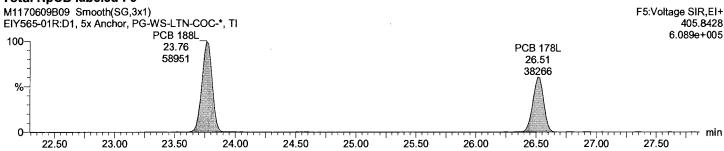
Total HpCB F5

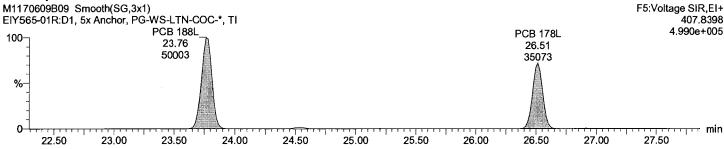












Dataset:

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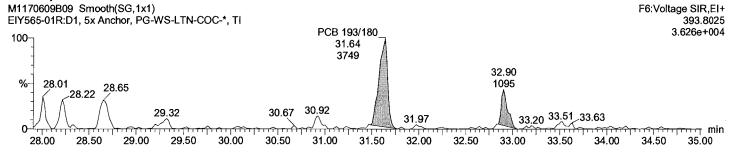
Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

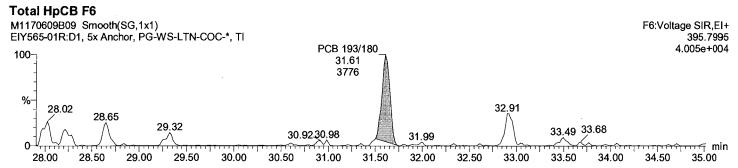
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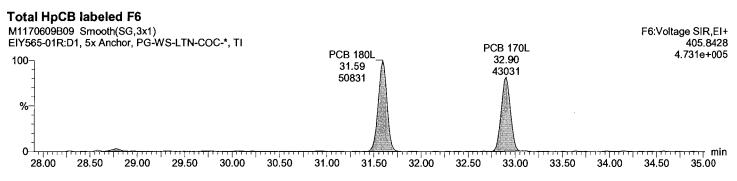
Vial: 9

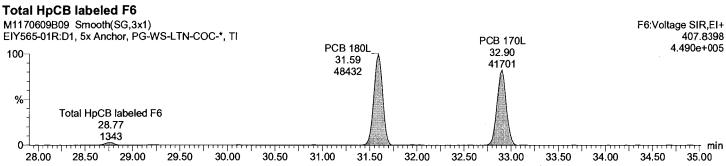
Date: 10-Jun-2017 Time: 01:22:29 Instrument:

Total HpCB F6









Dataset:

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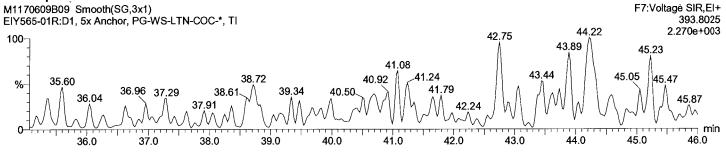
Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

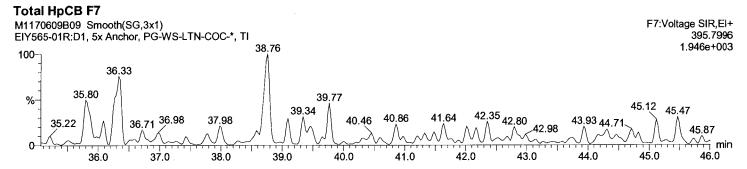
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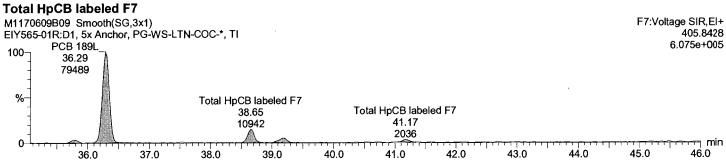
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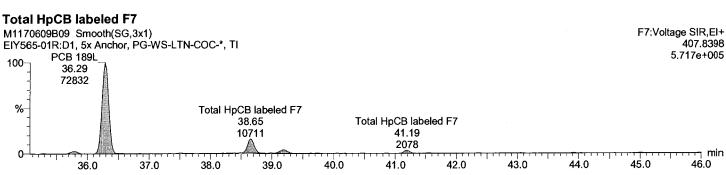
Date: 10-Jun-2017 Time: 01:22:29 Instrument:

Total HpCB F7









Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

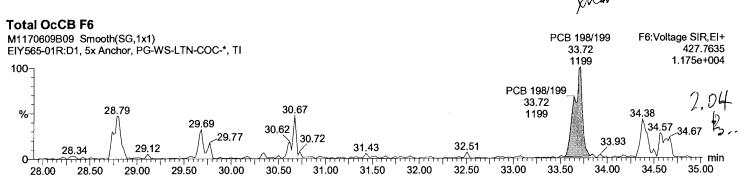
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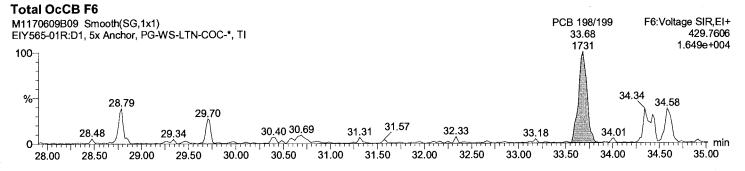
Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

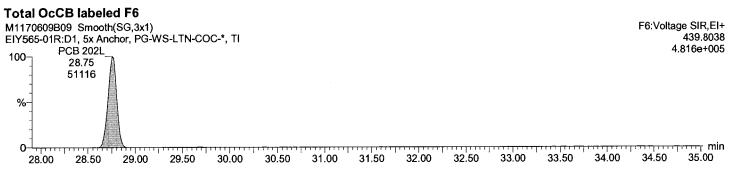
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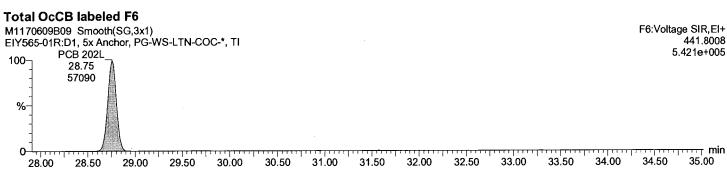
Vial: 9

Date: 10-Jun-2017 Time: 01:22:29 Instrument:









Dataset:

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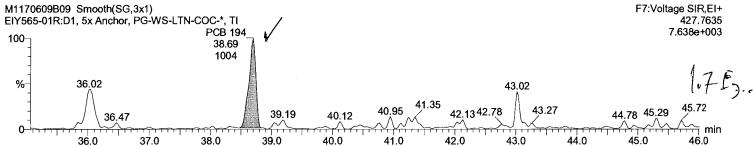
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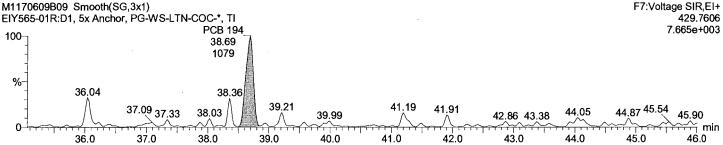
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Date: 10-Jun-2017 Time: 01:22:29 Instrument:

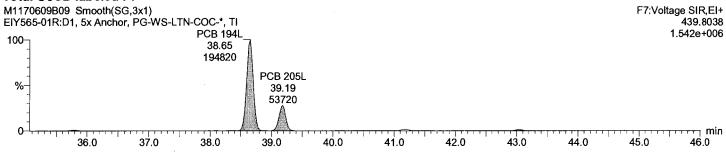




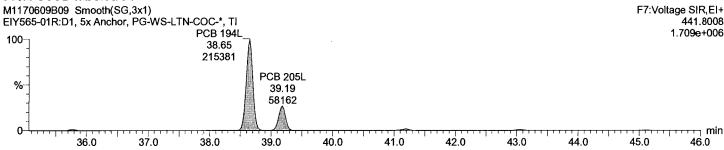
Total OcCB F7



Total OcCB labeled F7



Total OcCB labeled F7



Dataset:

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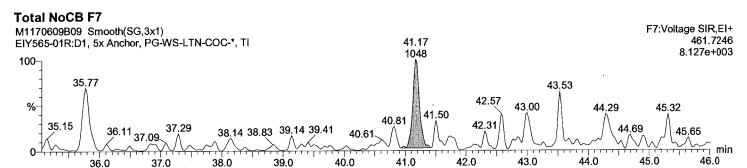
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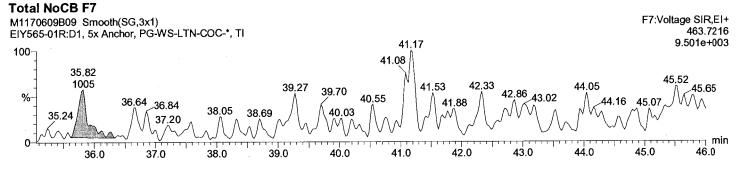
Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

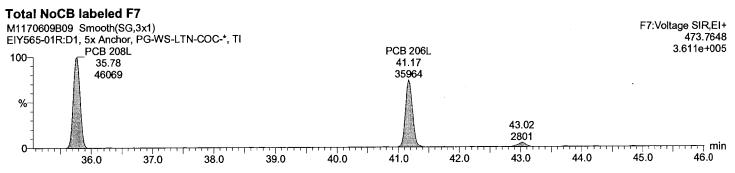
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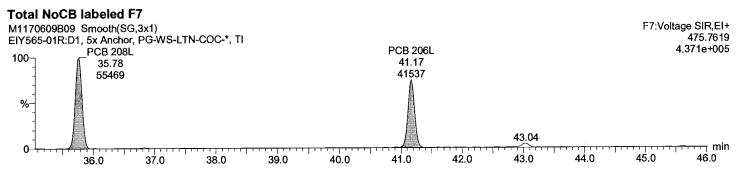
Vial: 9

Date: 10-Jun-2017 Time: 01:22:29 Instrument:









Dataset:

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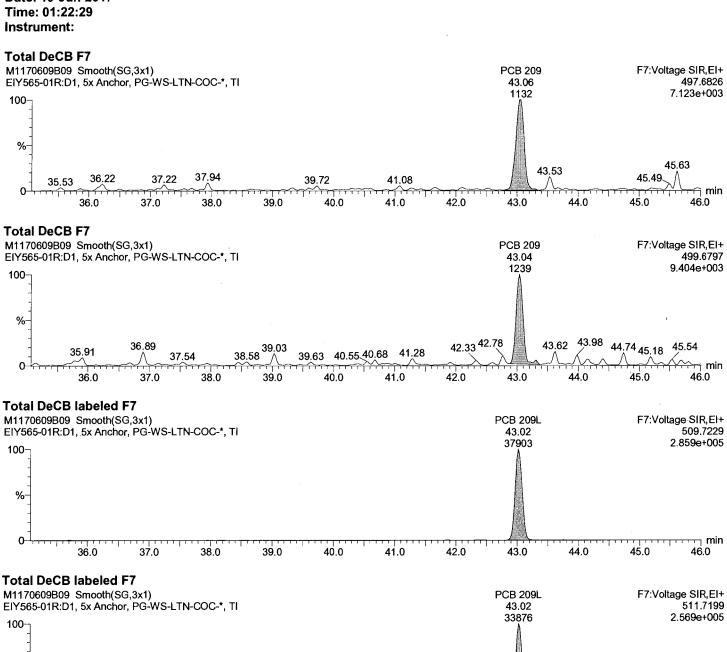
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Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

Description: EIY565-01R:D1, 5x

Vial: 9

Date: 10-Jun-2017



36.0

37.0

38.0

39.0

40.0

41.0

42.0

%

0

45.0

43.0

44.0

min

46.0

Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

Last Altered: Printed:

Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

9.00

8.80

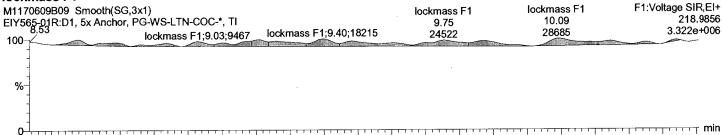
9.20

Description: EIY565-01R:D1, 5x

Vial: 9

Date: 10-Jun-2017 Time: 01:22:29 Instrument:





9.60

9.80

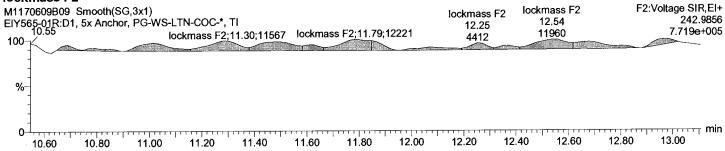
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10.00

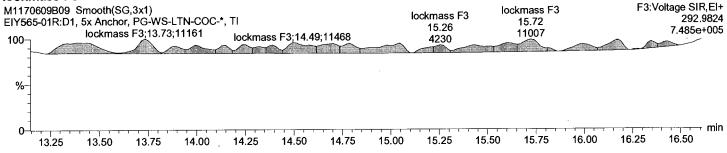
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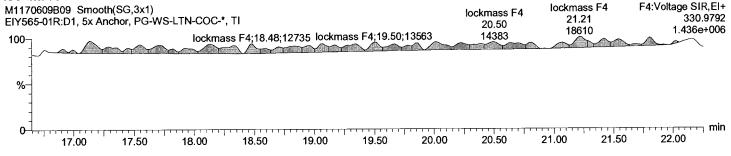








lockmass F4



Acquired Date

Dataset:

C:\MassLynx\Default.pro\M1170609B_\M1170609B_dil_1668A.qld

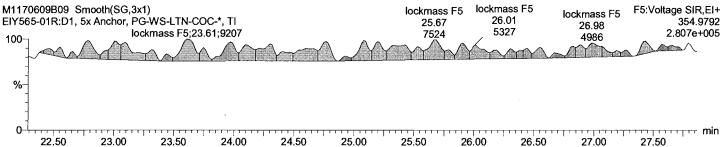
Last Altered: Printed: Monday, June 12, 2017 10:43:44 AM Monday, June 12, 2017 10:44:39 AM

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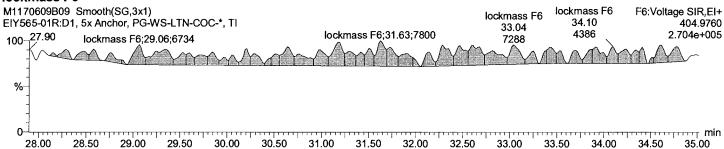
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Date: 10-Jun-2017 Time: 01:22:29 Instrument:

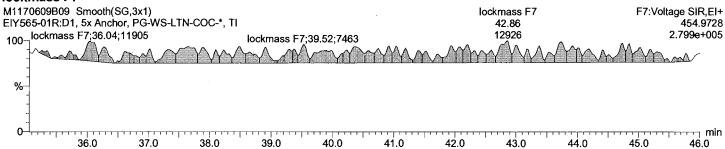


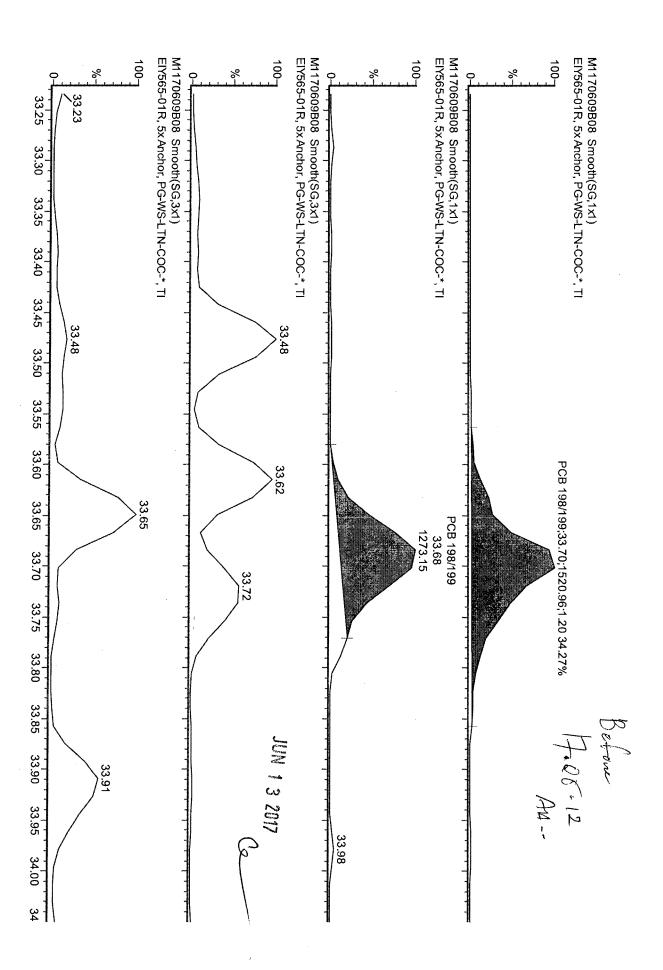


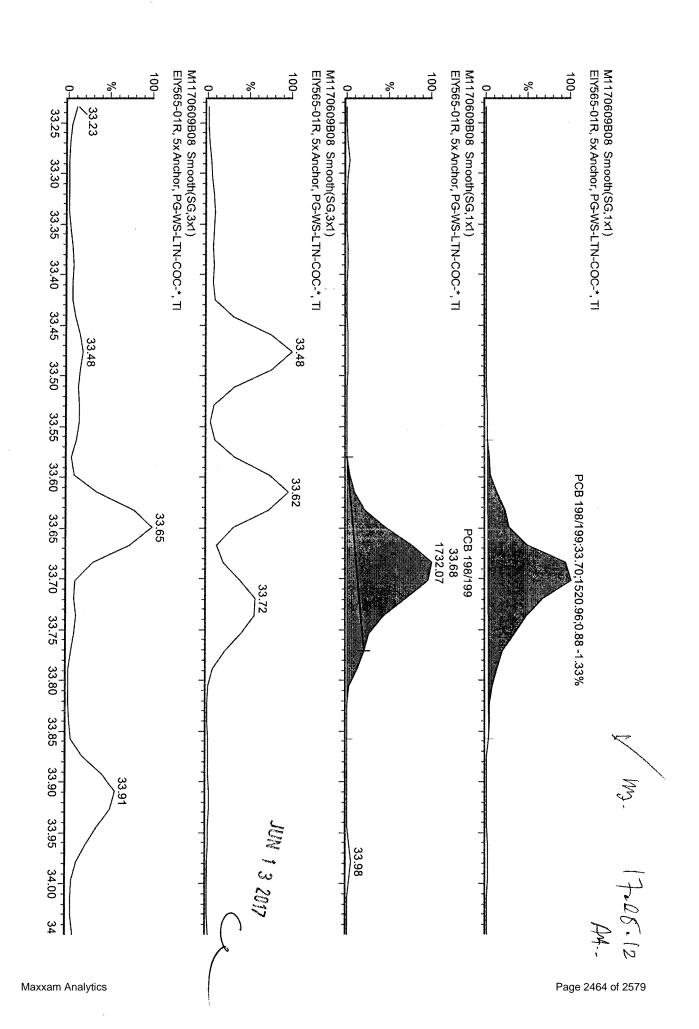
lockmass F6



lockmass F7







Filename M1170609B10 Acquired 10/06/2017 2:12

Cali File PCB209_M1170609B

Sample ID EIY571-01R, 5x Comments Instrument File Ultima 1 Sample Size 10.048

Dil Fac 1.00

5X

Name 1 PCB 1	mass 188	NotFnd	Area •	ratio	Tot Area	ng/g	Code	DL 0	S/N	Mod no	πf 1.053	Rec -
2 PCB 2	MoCB 190 188	8.81 NotFnd	•	ho •	•			0		no	1.198	-
3 PCB 3	MoCB 190 188	9.91 NotFnd	:	no *				0		no	1.055	-
4 PCB 4	MoCB 190 222	10.00 NotFnd	•	no •				0.003		no	1.191	_
5 PCB 10	DICB 224 222	10.11		no *								
	DICB 224	NotFnd 10.20	•	no				0.002		ho	1.156	-
6 PCB 9	222 DiCB 224	NotFnd 11.00	•	no	•			0.004		no	1.544	-
7 PCB 7	222 DICB 224	NotFnd 11.08	*	* no	•			0.004		no	1.399	-
8 PCB 6	222 DICB 224	NotFnd	:	•	•			0.004		no	1.424	-
9 PCB 5	222	11.18 NotFnd	*	no *	*	,		0.004		no	1.462	-
10 PCB 8	DICB 224 222	11.30 NotFnd	:	no •				0.004		no	1.443	_
11 PCB 14	DICB 224 222	11.36 NotFnd		ho •				0.004				
	DICB 224	12.03	•	no						no	1.506	•
12 PCB 11	222 DiCB 224	NotFnd 12.40	:	no	•			0.004		no	1.42	-
13 PCB 13/12	222 DiCB 224	NotFnd 12.54	:	* no	*			0.004		по	1.443	-
14 PCB 15	222 DICB 224	NotFnd	:	*	•			0.005		no	0.956	-
15 PCB 19	256	12.68 NotFnd	* .	no *	•			0.003		no	1.06	-
16 PCB 30/18	TriCB 258 256	11.46 NotFnd	:	no •				0.002		no	1.033	_
17 PCB 17	TriCB 258 256	12.25 NotFnd	:	ho *				0.002			0.838	
	TriCB 258	12.46	•	no *	_					no		-
18 PCB 27	256 TrICB 258	NotFnd 12.54		no	-			0.001		no	1.164	-
19 PCB 24	256 TriCB 258	NotFnd 12,58	:	* no	*			0.001		no	1.35	-
20 PCB 16	256 TriCB 258	NotFnd 12.66		•	*			0.003		no	0.608	_
21 PCB 32	256	NotFnd	*	no *	•			0.001		no	1.334	-
22 PCB 34	TriCB 258 256	12.88 NotFnd		no *				0.001		no	1.427	_
23 PCB 23	TriCB 258 256	13.46 NotFnd		no *				0.001		no	1.32	
24 PCB 26/29	TrICB 258 256	13.54		no *								
	TriCB 258	NotFnd 13.70	•	no				0.001		no	1.443	-
25 PCB 25	256 TriCB 258	NotFnd 13.83	*	no	•			0.001		no	1.389	-
26 PCB 31	256 - TriCB 258	13.98 13.99	1068 1168	0.91 yes	2236	0.002695		0.001	18 12	no	1.527	-
27 PCB 28/20	256	14.11	1881	1.02	3717	0.004747		0.001	32	no	1.441	-
28 PCB 21/33	TrICB 258 256	14.14 NotFnd	1836	yes *	•			0.001	20	no	1.391	-
29 PCB 22	TrICB 258 256	14.26 NotFnd	:	no *				0.001		no	1.357	_
30 PCB 36	TriCB 258 256	14.45 NotFnd	•	no •				0.001		no	1.632	_
	TriCB 258	15.28	:	no	_							-
31 PCB 39	256 TriCB 258	NotFnd 15.48	*	по				0.001		no	1.448	-
32 PCB 38	256 TriCB 258	NotFnd 15.86	:	no	*			0.001		no	1.474	-
33 PCB 35	256 TriCB 258	NotFnd 16.08	:	no	•			0.001		no	1.4	-
34 PCB 37	256	NotFnd	:	•	•			0.001		no	0.951	´-
35 PCB 54	TriCB 258 290	16.35 NotFnd	•	no *	•			0.001		no	1.071	
36 PCB 53/50	TCB 292 290	12.82 NotFnd	:	no *				0.001		no	0.861	_
37 PCB 45/51	TCB 292 290	13.86 NotFnd	•	no •				0.001		no	0.832	
38 PCB 46	TCB 292	14.21	:	no								_
	290 TCB 292	NotFnd 14.35	•	no				0.002		no	0.718	-
39 PCB 52	290 TCB 292	15.07 15.05	1743 2771	0.63 no	4514	0.00748		0.001	32 25	no	0.961	-
40 PCB 73	290 TCB 292	NotFnd 15.14		no	•			0.001		no	1.012	-
41 PCB 43	290	NotFrid		*	•			0.001		no	0.787	-
42 PCB 69/49	TCB 292 290	15.21 NotFnd	•	no •	•			0.001		no	0.953	
43 PCB 48	TCB 292 290	15.33 NotFnd	*	no *				0.001		по	0.848	_
44 PCB 44/47/65	TCB 292 290	15.50 15.65	÷ 2630	no 0.71	E202	0.040002			42			
	TCB 292	15.64	3693	0.71 yes	6323	0.010983		0.001	43 29	no	0.917	-
45 PCB 59/62/75	290	NotFnd	•	•	•			0.001		no	1.12	-

46 PCB 42	TCB 292	15.83 NotFnd		no *			0.00	14	-	0.728	
40 PCB 42	290 TCB 292	15.94	•	no			0.00)	no	0.720	-
47 PCB 40/41/71	290 TCB 292	NotFnd 16.23	*	no	•		0.00	01	no	0.85	-
48 PCB 64	290	NotFnd	*	*	•		0.00)1	no	1.079	-
49 PCB 72	TCB 292 290	16.37 NotFnd	:	no •			0.00	01	no	1.426	
	TCB 292	16.88	•	no							
50 PCB 68	290 TCB 292	NotFnd 17.07		no	•		0.00	01	ho	1.39	-
51 PCB 57	290	NotFnd		•	•		0.00	01	no	1.359	-
52 PCB 58	TCB 292 290	17.34 NotFnd	•	no *			0.00)1	no	1.206	-
	TCB 292	17.49		no							
53 PCB 67	290 TCB 292	NotFnd 17.57	•	no	_		0.00	л	no	1.485	-
54 PCB 63	290 TOP 202	NotFnd	:	•	•		0.00)1	no	1.419	-
55 PCB 61/70/74/7	TCB 292 6 290	17.74 17.98	2587	no 0.74	6085	0.007349	0.00)1 42	no	1.318	-
56 PCB 66	TCB 292 290	17.99 18.20	3497 2 00 0	yes 0.85	4358	0.005012	0.00	19 01 39	no	1,384	
	TCB 292	18.22	2358	yes	4330	0.003012		19	110		
57 PCB 55	290 TCB 292	NotFnd 18.35	:	no	•		0.00	01	no	1.246	-
58 PCB 56	290	NotFnd	•	*	•		0.00	01	no	1.266	-
59 PCB 60	TCB 292 290	18.69 NotFnd	:	no *	•.		0.00	01	no	1.277	_
	TCB 292	18.85	•	no							
60 PCB 80	290 TCB 292	NotFnd 19.08	:	no	•		0.00)1	no	1.5	-
61 PCB 79	290	NotFnd		•	•		0.00)1	no	1.544	-
62 PCB 78	TCB 292 290	20.22 NotFnd	•	no •			0.00)1	no	1.394	-
63 PCB 81	TCB 292 290	20.66 NotFnd	:	no •			0.00	14	no	1.02	
03 FCB 01	TCB 292	20.99	•	no			0.00	/1	110	1.02	-
64 PCB 77	290 TCB 292	NotFnd 21.43	:	no	*		0.00)1	no	1.016	-
65 PCB 104	326	NotFnd	•	*	•		0		no	1.194	-
66 PCB 96	PeCB 328 326	15.62 NotFnd	:	no *			0		no	0.819	
	PeCB 328	15.84		no							
67 PCB 103	326 PeCB 328	NotFnd 16.96	•	пo	-		0.00)7	no	0.834	-
68 PCB 94	326 PeCB 328	NotFnd	•	*	•		0.00)2	no	0.668	-
69 PCB 95	326	17.10 17.39	2446	no 1.5	4082	0.007725	0.00	1 43	no	0.789	-
70 PCB 100/93/102	PeCB 328 /98 326	17.38 NotFnd	1636	yes *			0.00	11	no	0.724	_
	PeCB 328	17.52	•	no							
71 PCB 88/91	326 PeCB 328	NotFnd 17.93		no	•		0.00)1	no	0.739	
72 PCB 84	326	NotFnd		•	•		0.00)2	no	0.66	-
73 PCB 89	PeCB 328 326	18.10 NotFnd	•	ho *			0.00	1	no	0.717	-
74 DOD 404	PeCB 328	18.43		no •			-				
74 PCB 121	326 PeCB 328	NotFnd 18.68	•	no			0.00	71	no	0.972	•
75 PCB 92	326 PeCB 328	NotFnd 18.94	:	no	•		0.00	1	no	0.75	-
76 PCB 113/90/101	326	19.40	4505	1.36	7820	0.013658	0.00		no	0.856	-
77 PCB 83/99	PeCB 328 326	19.36 19.81	3316 3200	yes 1.43	5435	0.010611	0.00	21 01 53	no	0.765	
	PeCB 328	19.81	2235	yes				15			
78 PCB 112	326 PeCB 328	NotFnd 19.89	•	no	-		0.00)1	no	0.907	-
79 PCB 109/119/86		20.21	2168	1.52	3597	0.006148	0.00		no	0.874	-
80 PCB 117/116/85		20.19 20.89	1429 5843	yes 1.84	9020	0.014783	0.00		no	0.912	-
81 PCB 110/115	PeCB 328 326	20.74 NotFnd	3177	no *			0.00	21	no	0.93	_
	PeCB 328	20.86		no							-
82 PCB 82	326 PeCB 328	NotFnd 21.13	•	no	•		0.00)2	no	0.681	-
83 PCB 111	326	NotFnd	•	*	•		0.00)1	no	1.022	-
84 PCB 120	PeCB 328 326	21.42 NotFnd	:	no •	•		0.00)1	no	1.091	_
	PeCB 328	21.78 NotFnd	•	no							
85 PCB 108/124	326 PeCB 328	22.76	•	no			0		no	1.201	-
86 PCB 107	326 PeCB 328	NotFnd 22.97	•	no	*		0		no	1.375	-
87 PCB 123	326	NotFnd	•	•	•		0.00)1	no	0.921	-
88 PCB 106	PeCB 328 326	23.06 NotFnd	:	no +			0		no	1.282	_
	PeCB 328	23.17		по	0010	0.040.**		4.5-			
89 PCB 118	326 PeCB 328	23.33 23.31	5614 3998	1.4 yes	9612	0.01245	0	133 55		1.028	-
90 PCB 122	326	NotFnd	•	•	•		0		no	1.158	-
91 PCB 114	PeCB 328 328	23.62 NotFnd	•	no •	•		0.00)1	no	1.023	-
92 PCB 105	PeCB 328 326	23.80 24.37	• 1921	no 1.02	3807	0.004986	0.00	1 53	no	1.024	_
	PeCB 328	24.36	1885	no	WU1	3.00-3000		19			-
93 PCB 127	326 PeCB 328	NotFnd 25.68	:	no no	•		0		no	1.256	-
94 PCB 126	326	NotFnd	•	*	•		0.00)1	no	1.093	-
	PeCB 328	27.20	-	no							

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				_				_				
95 PCB 155	HxC	360 362	NotFnd 19,24		no	-		0		no	1.103	-
96 PCB 152	Uor	360	NotFnd	:	•	*		0		no	0.849	-
97 PCB 150	HXCE	362 360	19.38 NotFnd	•	no •			0		no	0.77	_
	HxCE	362	19.51	*	no							
98 PCB 136	HxCE	380 3 362	NotFnd 19.76		no	•		0		nκο	0.816	-
99 PCB 145		360	NotFnd	•	•	•		0		no	0.755	-
100 PCB 148	HxCE	3 362 360	20.01 NotFnd		no •			0.001		no	0.617	_
	HxCE	362	21.11	•	no							
101 PCB 151/135	HxCE	360 3 362	NotFnd 21.59		no	•		0.001		no	0.6	-
102 PCB 154		360	NotFnd	•	•	•		0.001		no	0.691	-
103 PCB 144	HxCE	362 360	21.80 NotFnd	:	no •			0.001		no	0.618	_
	HxCE	362	22.05	•	no							
104 PCB 147/149	HxCE	360 362	NotFnd 22.34	:	no	•		0.001		no	0.809	-
105 PCB 134/143		360	NotFnd	•	•	•		0.002		no	0.689	-
106 PCB 139/140	HxCE	362 360	22.59 NotFnd	:	no •			0.001		no	0.804	_
	HxCE	362	22.86	•	no							
107 PCB 131	HxCE	360 362	NotFnd 23.03	:	no	*		0.002		по	0.649	-
108 PCB 142		360	NotFnd	•	*	*		0.002		no	0.718	-
109 PCB 132	HxCE	362 360	23.16 NotFnd	:	no *			0.002		no	0.7	_
	HxCE	362	23,41	•	no							
110 PCB 133	HxCE	360	NotFnd 23.84	•	no	•		0.001		no	0.786	-
111 PCB 165		360	NotFnd	•	*	. •		0.001		no	0.992	-
112 PCB 146	HxCE	362 360	24,21 NotFnd	:	vo *			0.001		no	0.895	
	HxCB	362	24.41	•	no					110		
113 PCB 161	HxCB	360	NotFnd 24.53	:	no	•		0.001		no	1.015	-
114 PCB 153/168	HACE	360	24.98	8345	1.12	15806	0.027669	0.001	130	no	0.993	-
115 PCB 141	HxCB	362 360	24.99 NotFnd	7461	yes			0.001	69	no	0.784	
113 FCB 14(HxCB		25.14	•	no			0.001		no	0.764	-
116 PCB 130	НхСВ	360	NotFnd 25.51	:	*	•		0.002		uo	0.716	-
117 PCB 137		360	NotFnd		no *	•		0.002		no	0.675	-
118 PCB 164	HxCB	362 360	25.75 NotFnd		no *			0.001		•••	1.109	
110 1 CB 104	HxCB		25.83	. *	no			0.001		no	1.109	•
119 PCB 138/163/12	9 HxCB	360 362	26.12	7716	1.44	13062	0.026805	0.001	114	no	0.847	-
120 PCB 160	пхов	360	26.15 NotFnd	5346 *	no •	•		0.001	43	no	0.943	-
121 PCB 158	HxCB	362 360	26.30 NotEnd		no			0.001			4 402	
121 FCB 156	НхСВ		NotFnd 26.47	4	no			0.001		no	1.103	-
122 PCB 128/166	НхСВ	360	NotFnd		•	•		0.001		no	0.934	-
123 PCB 159	пхсь	360	27.31 NotFnd		no •	•		0		no	1.254	-
404 DCD 460	HxCB		28.27	•	no *			0			1 204	
124 PCB 162	HxCB	360 362	NotFnd 28.53	•	no			0		no	1.204	-
125 PCB 167	UCD	360	NotFnd	•	•	•		0		no	1.103	-
126 PCB 156/157	HxCB	360	29.02 NotFnd	•	no •			0		no	1.047	_
407 DOD 400	HxCB		30.18		no							
127 PCB 169	НхСВ	360 362	NotFnd 33.56	•	no	-		0.001		no	1.04	-
128 PCB 188		394	NotFnd		•	*		0		no	1.069	-
129 PCB 179	НрСВ	396 394	23.79 NotFnd		no *	*				no	1.122	
	HpCB	396	24.07	*	no							
130 PCB 184	НрСВ	394 396	NotFnd 24.55		no	•		0		no	1.054	-
131 PCB 176		394	NotFnd	•	•	*		0		no	1.032	-
132 PCB 186	НрСВ	396 394	24.86 NotFnd	:	no *			0		no	0.965	
	НрСВ	396	25.26	•	no							
133 PCB 178	НрСВ	394 396	NotFnd 26.54	:	no	•		0.001		no	0.77	-
134 PCB 175	-	394	NotFnd	•	•	*		0.001		no	0.803	-
135 PCB 187	НрСВ	396 3 94	27.14 27.38	2282	no 1.06	4429	0.009131	0.001	50	no	0.814	
	НрСВ	396	27.37	2147	yes		21242101		62			
136 PCB 182	НрСВ	394	NotFnd 27.59	:	no	•		0.001		no	0.797	-
137 PCB 183	TIPOD	394	NotFnd	•	•	•		0.001		no	1.01	-
138 PCB 165	HpĊB		27.99 NotFnd		no *			0.001		no	0.813	
100 FCD 100	НрСВ		28.08	•	no			0.001		ПО	0.013	-
139 PCB 174	HECE	394 396	NotFnd	:	*	•		0.001		no	0.901	-
140 PCB 177	НрСВ	396 394	28.24 NotFnd	•	no •	•		0.001		no	0.876	-
	НрСВ	396	28.65	:	no •							
141 PCB 181	Hace	394 396	NotFnd 29.06	•	no	-		0.001		no	0.887	-
440 DOD 474/470	HPCB							0.004			0.854	_
142 PCB 171/173		394	NotFnd	:		•		0.001		no	0.054	
142 PCB 171/173	НрСВ		NotFnd 29.28 NotFnd	:	no *			0.001		no	0.869	-
		396 394	29.28									-

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Hybrid H	14E DOD 102/190	HpCB 396	31.24 NotFnd		no			. 0.001			4 470	
Hear	145 PCB 193/180		31.59	•	no			0.001		по	1.172	-
PGB 100	146 PCB 191			:	no	*		0.001		ю	1.186	-
146 PCB 160	147 PCB 170			:	no	*		0.001		no	1.171	-
149 PG 189	148 PCB 190	394	NotFnd	•	•	•		0.001		no	1.165	-
155 PCB 201	149 PCB 189	394	NotFnd	*	*	•		0		no	0.922	-
151 PCB 201	150 PCB 202			607	Committee of the commit	1497	0.002584	0	16	yes	1.031	
Cocc Acc Cocc Acc Cocc Acc Cocc Acc Cocc Acc Cocc Acc Acc	151 PCB 201			890	no •			0.001	0	no	1.078	
Deck 100 Deck 100 Deck 100 Deck 100 Deck Deck		OcCB 430	29.70	•	no *							
		OcCB 430	30.39		no							
		OcCB 430	30.62		no					no	1.082	
1455 PCB 1981/199	154 PCB 200				no		ingerer i de la	0.001		no	1.016	
155 PCB 196	155 PCB 198/199		33.67		0.91	1833	0.004002	0		yes	0.777	
155 PCB 195	156 PCB 196	428	34.39	314	0.64	806	0.00167	0	10	yes	0.819	-
145 PCB 195	157 PCB 203	428				957	0.001969	0		yes	0.825	
159 PCB 194	158 PCB 195					485	0.000883	.0		Ves	0.931	
160 PCB 200		OcCB 430	36,03	266	yes				0			
161 PCB 208		OcCB 430	38.65			893	0.001579			yes		100 LLM 1001
161 PCB 208	160 PCB 205				no	,		.0		no.	0.992	
162 PCB 207	161 PCB 208	462	NotFnd	•	•	************		0.002		no	1.042	-
100 100	162 PCB 207	462	NotFnd	•	•	•		0.002		no	1.302	-
MolFind MolF	163 PCB 206	462		:	no *			0.003		no	1.017	-
DCB SOU A 3.06 C	164 PCB 209				no *			0.001		no	1.026	_
166 PCB 3L 200		DCB 500	43.06	*					000			40
167 PCB 4L	165 PCB 1L					81551	0.09094	0.004		no	0.997	46
167 PCB 41. 234 10.10 25670 17.1 40724 0.997508 0.904 99 no 0.464 161	166 PCB 3L					82383	0.087218	0.003		no	1.05	44
188 PCB 15L 234	167 PCB 4L	234	10.10	25670	1.71	40724	0.097508	0.004	99	no	0.464	49
169 PCB 19L 288	168 PCB 15L	234	12.68	75713		127070	0.120984	0.002	110	no	1.168	61
170 PCB 37L 288 61.33 7933 1.01 159068 0.163619 0.003 116 no 1.848 1.01 1.02 1.00 1.	169 PCB 19L					57268	0.118834	0.006		no	0.536	60
171 PCB 54L 302 12.81 32964 yes 57213 0.132041 0.001 291 no 0.802 172 PCB 81L 302 20.97 70546 0.78 161272 0.191886 0.001 314 no 1.597 173 PCB 71L 302 21.41 68879 0.77 158075 0.186945 0.001 306 no 1.607 174 PCB 104L 318 15.60 44584 1.6 7.2424 0.16494 0 3416 no 0.912 175 PCB 123L 338 23.04 94993 1.56 156041 0.204917 0.001 1171 no 1.581 176 PCB 118L 338 23.31 9259 1.63 149464 0.205538 0.001 1097 no 1.471 177 PCB 114L 338 23.31 9259 1.63 149464 0.205538 0.001 1097 no 1.471 178 PCB 105L 338 23.31 9259 1.63 149464 0.205538 0.001 1097 no 1.471 178 PCB 105L 338 23.31 9259 1.63 149464 0.205538 0.001 1097 no 1.471 178 PCB 105L 338 23.31 9259 1.63 148341 0.206921 0.001 999 no 1.471 178 PCB 105L 338 24.33 88136 1.46 148341 0.206921 0.001 863 no 1.446 179 PCB 126L 338 24.33 88136 1.46 148341 0.206921 0.001 863 no 1.446 179 PCB 126L 338 27.17 78168 1.65 12568 0.1809 0.001 863 no 1.446 180 PCB 155L 372 19.22 51688 1.55 12568 0.1809 0.001 863 no 1.446 181 PCB 167L 372 28.99 78489 1.25 141456 0.200924 0.001 710 yes 1.424 182 PCB 156L/157L 372 30.15 189703 1.28 284783 0.38541 0.001 1211 no 1.495 183 PCB 169L 374 33.52 37940 yes 3455 0.111219 0.001 368 no 1.518 184 PCB 188L 406 23.76 61656 1.11 117442 0.207933 0.001 420 no 1.141 185 PCB 189L 406 32.89 47774 1 9519 0.196245 0.001 420 no 1.141 185 PCB 189L 406 32.89 47774 1 9519 0.196245 0.001 420 no 1.141 186 PCB 189L 406 32.89 47774 1 9519 0.196245 0.001 420 no 1.141 187 PCB 189L 406 32.89 47774 1 9519 0.196245 0.001 420 no 1.141 187 PCB 189L 406 32.89 4		270	11.47	29724	yes				50			82
172 PCB 81L 302 20.97 70546 0.78 161272 0.191886 0.001 314 no 1.597 173 PCB 77L 302 21.41 68879 0.77 158075 0.186945 0.001 306 no 1.607 174 PCB 104L 338 15.60 44564 1.6 72424 0.16494 0 3416 no 0.912 175 PCB 123L 338 23.04 94993 1.56 156041 0.204917 0.001 1171 no 1.581 176 PCB 118L 338 23.14 92569 1.63 149464 0.205538 0.001 1097 no 1.51 177 PCB 114L 338 23.13 92569 1.63 149464 0.205538 0.001 1097 no 1.51 177 PCB 114L 338 23.78 84843 1.54 139825 0.197327 0.001 999 no 1.471 178 PCB 105L 338 24.33 88136 1.46 148341 0.206921 0.001 999 no 1.471 178 PCB 125L 338 27.17 78168 1.65 125528 0.1809 0.001 863 no 1.44 179 PCB 125L 372 19.22 51698 1.33 90661 0.181509 0.001 863 no 1.42 180 PCB 155L 372 19.22 51698 1.33 90661 0.181509 0.001 607 1.00 181 PCB 167L 372 30.15 158703 1.28 284783 0.38541 0.001 1007 100 1.495 183 PCB 169L 372 33.53 454515 1.2 83455 0.111219 0.001 366 no 1.412 184 PCB 188L 406 23.76 61656 1.11 11742 0.207933 0.001 463 no 1.435 185 PCB 189L 406 32.99 78660 0.97 153783 0.18796 0.002 203 no 1.935 186 PCB 189L 406 32.99 47545 yes 1.41850 0.18958 0.001 420 no 1.435 186 PCB 189L 406 32.99 47545 yes 1.41850 0.18958 0.001 420 no 1.435 186 PCB 189L 406 32.99 775660 0.97 153783 0.18796 0.194329 0.002 203 no 1.935 186 PCB 189L 406 32.99 47774 1 95199 0.18958 0.001 420 no 1.435 186 PCB 189L 406 32.99 47745 1 995199 0.18958 0.001 420 no 1.435 186 PCB 189L 406 32.99 47745 1 95319 0.196245 0.001 420 no 1.141 187 PCB 189L 406 32.99 47545 yes 1.1885 0.18029 0.1435 0.002 203 no 1.535 188 PCB 202L 4406		270	16.33	79235	yes				180	110		
172 PCB 81L 302 20.97 70546 0.78 161272 0.191886 0.001 314 no 1.597 173 PCB 77L 302 21.41 68879 0.77 158075 0.186945 0.001 306 no 1.607 304 21.40 89196 yes 380 15.60 340 16.64 27860 yes 1068 174 PCB 104L 338 15.60 44.654 1.6 72424 0.16494 0.0 3416 no 0.912 175 PCB 123L 338 23.04 94.993 1.56 156041 0.204917 0.001 1171 no 1.581 175 PCB 138L 338 23.31 92.699 1.63 14.9464 0.205538 0.01 1097 no 1.51 176 PCB 118L 338 23.31 92.699 1.63 14.9464 0.205538 0.01 1097 no 1.51 177 PCB 114L 338 23.38 84843 1.54 139825 0.197327 0.001 999 no 1.471 178 PCB 105L 338 24.33 88136 1.46 148341 0.206921 0.001 1020 no 1.488 179 PCB 126L 338 27.17 78168 1.55 125528 0.1809 0.001 863 no 1.44 180 PCB 155L 372 19.22 51698 1.33 90661 0.181509 0.001 863 no 1.424 181 PCB 167L 372 28.99 78469 1.25 141456 0.200924 0.001 710 yes 1.424 183 PCB 169L 372 33.53 45515 1.2 83455 0.111219 0.001 386 no 1.438 184 PCB 169L 372 33.53 45515 1.2 83455 0.111219 0.001 386 no 1.445 185 PCB 188L 406 32.76 61566 1.11 117442 0.207933 0 1441 no 1.495 185 PCB 180L 406 31.59 55053 yes 1.67973 0.18958 0.111219 0.001 386 no 1.343 186 PCB 180L 406 32.89 47774 1 95319 0.196245 0.001 420 no 1.141 187 PCB 189L 406 32.89 47774 1 95319 0.196245 0.001 420 no 1.141 187 PCB 189L 406 32.89 47754 yes 1.67974 0.188958 0.111219 0.001 386 no 1.343 188 PCB 202L 440 82.87 53589 0.92 11188 0.194329 0 0 0.1435 no 1.935 188 PCB 202L 440 82.87 53589 0.92 11188 0.194329 0 0 0 4355 no 1.935 188 PCB 202L 440 82.76 53589 0.92 11188 0.194329 0 0 0 4355 no 1.355	171 PCB 54L					55723	0.132041	0.001		no	0.802	66
173 PCB 77L 302 21.41 68879 0.77 158075 0.186945 0.001 306 no 1.607 174 PCB 104L 338 15.60 44584 1.6 72424 0.16494 0 3416 no 0.912 175 PCB 123L 338 23.04 94993 1.56 156041 0.204917 0.001 1171 no 1.581 176 PCB 118L 338 23.31 92569 1.63 149464 0.205538 0.001 1097 no 1.51 176 PCB 118L 338 23.31 92569 1.63 149464 0.205538 0.001 1097 no 1.51 176 PCB 118L 338 23.37 84843 1.54 139825 0.197327 0.001 999 no 1.471 178 PCB 105L 338 24.33 88136 1.46 148341 0.206921 0.001 1020 no 1.488 179 PCB 126L 338 27.77 78168 1.65 125528 0.1809 0.001 863 no 1.44 180 PCB 155L 372 19.22 51698 1.33 90661 0.181509 0 1556 no 1.01 181 PCB 167L 372 28.99 78469 1.25 141456 0.200924 0.001 710 yes 1.424 182 PCB 156L/157L 372 30.15 159703 1.28 284783 0.38541 0.001 1211 no 1.495 183 PCB 169L 372 30.15 159703 1.28 284783 0.38541 0.001 386 no 1.518 184 PCB 169L 372 30.15 159703 1.28 284783 0.38541 0.001 366 no 1.518 184 PCB 169L 372 30.15 159703 1.28 284783 0.38541 0.001 366 no 1.518 184 PCB 188L 406 23.76 61656 1.11 117442 0.207933 0 1441 no 1.442 185 PCB 180L 406 32.99 47745 1 95319 0.196245 0.001 463 no 1.343 186 PCB 170L 406 32.99 47745 yes 10.995245 0.001 400 0.001 1000 1.000 188 PCB 202L 406 36.29 78163 0.92 11188 0.194329 0 1435 no 1.535 188 PCB 202L 404 28.75 53588 0.92 11188 0.194329 0 0 1435 no 1.535 188 PCB 202L 404 28.75 53588 0.92 11188 0.194329 0 0 1435 no 1.535 188 PCB 202L 404 28.75 53588 0.92 11188 0.194329 0 0 1435 no 1.535 189 PCB 202L 404 28.75 53588 0.92 111883 0.194329 0 0 1435 no 1.535 189 PCB 202L	172 PCB 81L				0.78	161272	0.191886	0.001		no	1.597	96
174 PCB 104L 338 15.60	173 PCB 77L	302	21.41	68879	0.77	158075	0.186945	0.001	306	no	1.607	94
175 PCB 123L 338 23.04 9493 1.56 156041 0.204917 0.001 1171 no 1.581 340 23.31 92569 1.63 149464 0.205538 0.001 1097 no 1.5181 340 23.31 56895 yes 86666 86666 86666 86666 86666 86666 86666 86666 86666 86666 86666 86666 8666	174 PCB 104L					72424	0.16494	0		no	0.912	83
176 PCB 118L 338 23.31 92.569 1.63 149464 0.205538 0.001 1097 no 1.51 340 23.31 56895 yes 866 1.77 PCB 114L 338 23.78 84843 1.54 139825 0.197327 0.001 999 no 1.471 340 23.78 54983 yes 831 1.46 148341 0.206921 0.001 1020 no 1.488 340 24.34 60206 yes 884 1.54 1.46 148341 0.206921 0.001 1020 no 1.488 340 24.34 60206 yes 884 1.54 1.55 1	175 PCB 123L					156041	0.204917	0.001		no	1.581	103
177 PCB 114L 338 23.78 84843 1.54 139825 0.197327 0.001 999 no 1.471 178 PCB 105L 338 24.33 88136 1.46 148341 0.206921 0.001 1020 no 1.488 179 PCB 126L 338 27.17 78168 1.65 125528 0.1809 0.001 863 no 1.48 180 PCB 155L 372 19.22 51698 1.33 90661 0.181509 0 1556 no 1.01 374 19.25 33963 yes 1.25 141456 0.200924 0.001 710 yes 1.424 181 PCB 167L 372 28.99 78469 1.25 141456 0.200924 0.001 710 yes 1.424 182 PCB 156L/157L 372 30.15 159703 1.28 284783 0.38541 0.001 1211 no 1.495 183 PCB 169L 372 33.53 45515 1.2 83455 0.111219 0.001 386 no 1.518 184 PCB 188L 406 23.76 61656 1.11 117442 0.207933 0 1441 no 1.142 185 PCB 180L 406 31.59 52921 0.96 107974 0.188958 0.001 463 no 1.343 186 PCB 170L 406 32.89 47774 1 95319 0.196245 0.002 203 no 1.923 187 PCB 189L 406 32.89 47545 yes 1376 0.002 203 no 1.923 188 PCB 202L 440 28.75 55589 0.92 11188 0.194329 0 0 1435 no 1.355 188 PCB 202L 440 28.75 55589 0.92 11188 0.194329 0 0 1435 no 1.355 188 PCB 202L 440 28.75 55589 0.92 11188 0.194329 0 0 1435 no 1.355 188 PCB 202L 440 28.75 55589 0.92 11188 0.194329 0 0 1435 no 1.355 188 PCB 202L 440 28.75 55589 0.92 11188 0.194329 0 0 1435 no 1.355 188 PCB 202L 440 28.75 55589 0.92 11188 0.194329 0 0 1435 no 1.355 187 PCB 189L 440 28.75 55589 0.92 11188 0.194329 0 0 1435 no 1.355 188 PCB 202L 440 28.75 55589 0.92 11188 0.194329 0 0 1435 no 1.355 188 PCB 202L 440 28.75 55589 0.92 11188 0.194329 0 0 1435 no 0 1.355 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1.255 1		340	23.02	61048	yes				959			103
178 PCB 105L 338 24.33 88136 1.46 148341 0.206921 0.001 1020 no 1.488		340	23.31	56895	yes				866	ю		
179 PCB 126L 338 24.34 60206 yes 1.65 125528 0.1809 0.001 863 no 1.44	177 PCB 114L					139825	0.197327	0.001		по	1.471	99
179 PCB 126L 338 27.17 78168 1.65 125628 0.1809 0.001 863 no 1.44 1.45 1.4	178 PCB 105L					148341	0.206921	0.001		no	1.488	104
181 PCB 167L 372 19.22 51688 1.33 99.661 0.181509 0 1.556 no 1.01 181 PCB 167L 372 28.99 78469 1.25 141456 0.200924 0.001 7710 yes 1.424 182 PCB 156L/157L 372 30.15 159703 1.28 284783 0.38541 0.001 1211 no 1.495 183 PCB 169L 372 33.53 45515 1.2 83455 0.111219 0.001 336 no 1.518 184 PCB 188L 406 23.76 61656 1.11 117442 0.207933 0 1441 no 1.495 185 PCB 180L 406 31.59 55786 yes	179 PCB 126L	338	27.17	78168	1.65	125528	0.1809	0.001	863	no	1.44	91
181 PCB 167L 372 28.99 28.99 62987 yes 1.25 yes 1.41456 0.200924 0.001 710 520 520 yes 1.424 520 182 PCB 156L/157L 372 30.15 169703 1.28 284783 0.38541 0.001 1211 no 520 1.21 1 no 520 1.495 183 PCB 169L 372 33.53 45515 1.2 83455 1.2 8	180 PCB 155L	372	19.22	51698	1.33	90661	0.181509	0	1556	no	1.01	91
182 PCB 156L/157L 372 30.15 159703 1.28 284783 0.38541 0.001 1211 no 1.495 1.28 1	181 PCB 167L					141456	0.200924	0.001		Ves	1.424	101
183 PCB 169L 374 30.12 125080 yes 34555 1.2 83455 0.111219 0.001 386 no 1.518 374 30.52 37940 yes 296 1.218 1.228 1.		374	28.98	62987	yes				520			97
184 PCB 188L 406 23.76 61656 1.11 117442 0.207933 0 1441 no 1.142 1.14444 1.1444 1.1444 1.14444 1.14444 1.1444 1.1444 1.14444 1.14444		374	30.12	125080	yes				841	ю		
185 PCB 180L 408 23.76 55786 yes 5460	183 PCB 169L					83455	0.111219	0.001		по	1.518	56
185 PCB 180L 406 31.59 52921 0.96 107974 0.188958 0.001 463 no 1.343 186 PCB 170L 406 32.89 47774 1 95319 0.196245 0.001 420 no 1.141 187 PCB 189L 406 36.29 75660 0.97 153783 0.187916 0.002 203 no 1.923 188 PCB 202L 440 28.75 55389 0.92 11188 0.194329 0 0 1435 no 1.353	184 PCB 188L					117442	0.207933	0		no	1.142	104
186 PCB 170L 406 32.89 47774 1 95319 0.196245 0.001 420 no 1.141 187 PCB 189L 406 36.29 75660 0.97 153783 0.187916 0.002 203 no 1.923 408 36.29 78123 yes 403 403 403 403 188 PCB 202L 440 28.75 53589 0.92 11188 0.194329 0 1435 no 1,353	185 PCB 180L	406	31.59	52921	0.96	107974	0.188958	0.001	463	no	1.343	95
187 PCB 189L 406 36.29 (408) 75660 (50.7) (186 PCB 170L					95319	0.196245	0.001		по	1.141	99
408 36.29 78123 yes 403 188 PCB 202L 440 28.75 53589 0.92 111883 0.194329 0 1435 no 1,353	187 PCB 189L			47545		153783		0.002	1081	no		94
		408	36.29	78123	yes				403			
		442	28.76	58294	yes				1539	no		98
189 PCB 205L 440 39.16 59992 0.96 122746 0.202567 0.001 1048 no 1.424 442 39.19 62754 yes 1023	189 PCB 205L			59992	0.96	122746	0.202567	0.001	1048	no	1.424	102
190 PCB 208L 474 35.75 47301 0.79 107532 0.192989 0.001 659 no 1.309	190 PCB 208L	474	35.75	47301	0.79	107532	0.192989	0.001	659	no	1.309	97
476 35.79 60231 yes 1130 191 PCB 206L 474 41.17 34849 0.79 79112 0.201299 0.001 477 no 0.924	191 PCB 206L	474	41.17	34849	0.79	79112	0.201299	0.001	477	no	0.924	101
476 41.20 44263 yes 790 192 PCB 209L 510 43.02 39850 1.19 73358 0.208107 0 1892 no 0.828	192 PCB 209L					73358	0.208107	0		no	0.828	105
512 43.06 33508 yes 1475		512	43.06	33508	yes				1475			74
193 PCB 28L 268 14.11 82879 0.95 170508 0.164584 0.003 136 no 1.969 PCB Cleanup Standard 270 14.12 87628 yes 226 226						170000	V.104504	0.003		IN	1.309	14

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194	PCB 111L	338	21.41	85914	1.6	139525	0.210968	0.001	1827	no	1.373	95
	PCB Cleanup Standard	340	21.40	53611	yes				528			
195	PCB 178L	406	26.51	39471	1.02	78208	0.216014	0	876	no	0.732	98
	PCB Cleanup Standard	408	26.50	38737	yes				3668			
196	PCB 31L	268	NotFnd	•		•		0.003		no	1.878	
	PCB Audit Standard	270	13.97	•	no							
197	PCB 95L	338	NotFnd	•				0.001		no	0.916	
	PCB Audit Standard	340	17.38	•	no							
198	PCB 153L	372	NotFnd			*		0.001		no	1.173	
	PCB Audit Standard		24.96		no			0.001				
199	PCB 9L	234	10.99	617594	1.64	994291	2.456496		948	no		-
	PCB Recovery Standard		11.00	376697	yes	001201	2,100100		1938	110		
200	PCB 52L	302	15.05	261987	0.82	581790	2.585239	_	1244	no	_	_
	PCB Recovery Standard		15.05	319804	yes	501750	2.000200		3382	110		
201	PCB 101L	338	19.38	330402	1.63	532648	2.606107		7285	no		
201	PCB Recovery Standard		19.36	202246		332040	2.000107	-	2081	110	-	-
					yes	-40000	0.000000					
202		372	26.08	304781	1.26	546633	2.623623	-	10428	no	-	-
	PCB Recovery Standard	374	26.07	241853	yes				3096			
203	PCB 194L	440	38.65	223431	0.9	470551	2.507716	-	3879	no	-	-
	DCB Pacovoni Standard	442	39.50	247120	Von				4172			

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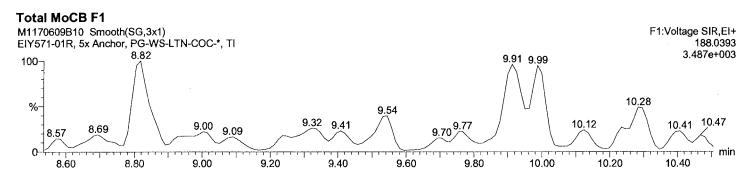
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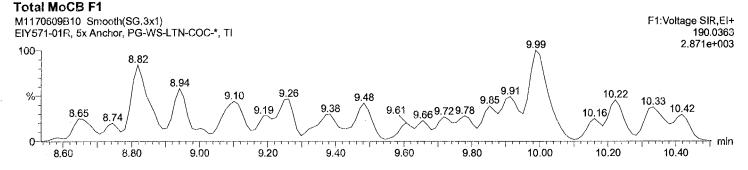
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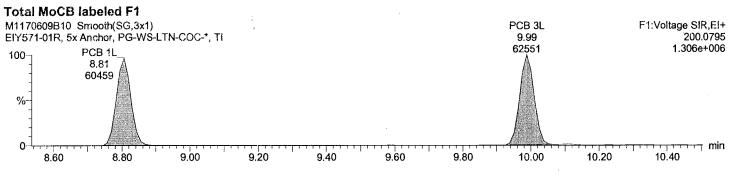
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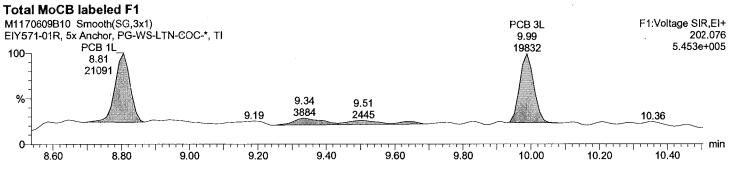
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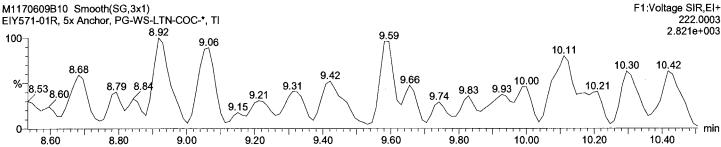
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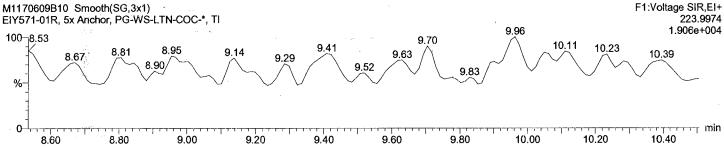
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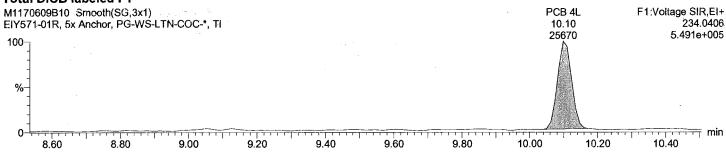




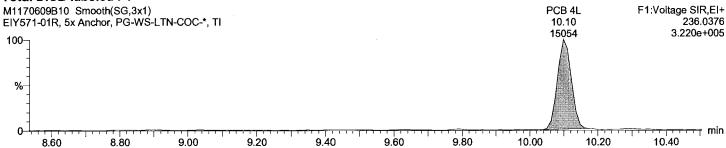
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Total DiCB labeled F1



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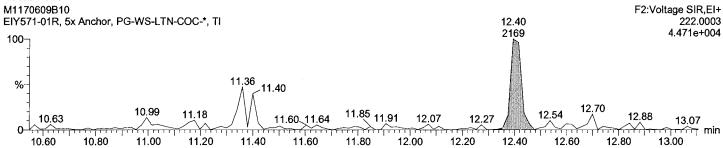
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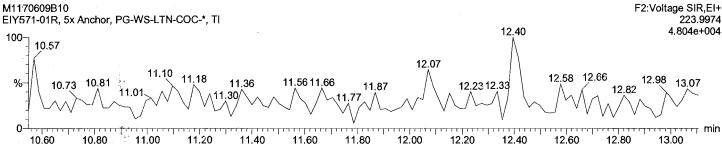
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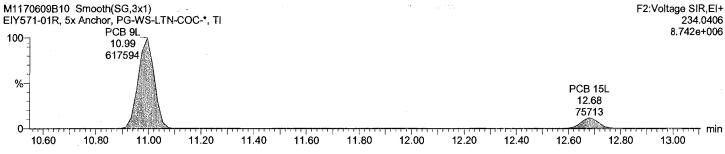




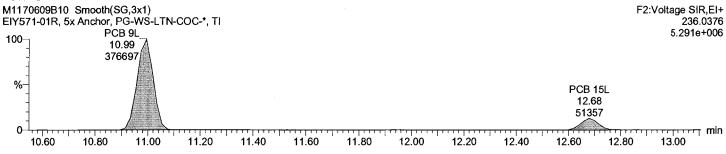
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Total DiCB labeled F2



Total DiCB labeled F2



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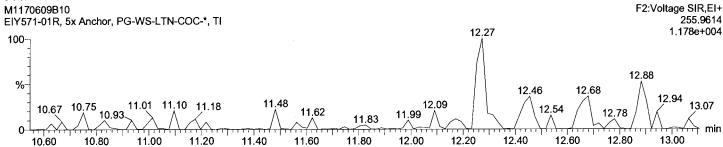
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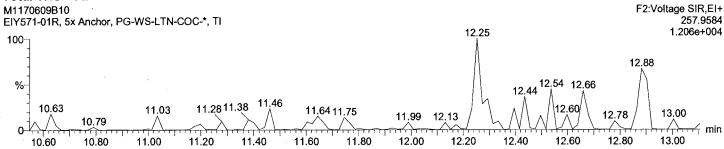
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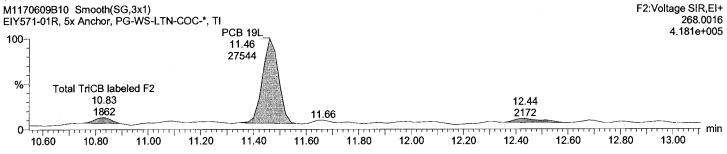
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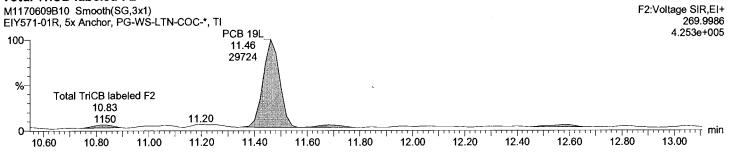
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Total TriCB labeled F2



Total TriCB labeled F2



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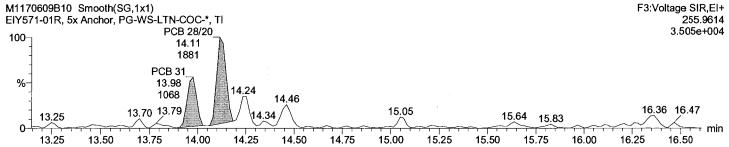
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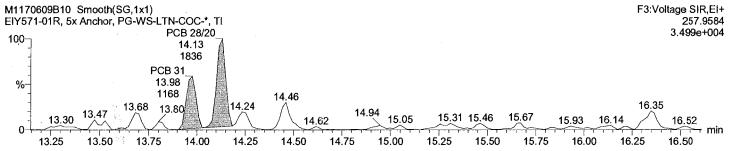
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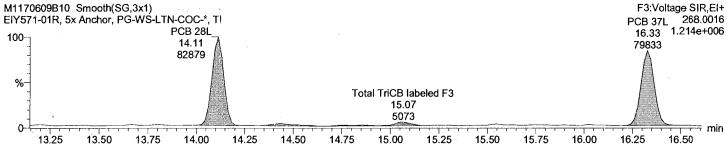
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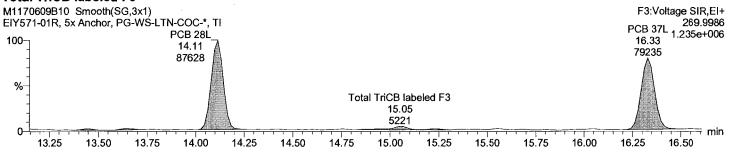
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



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Last Altered:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

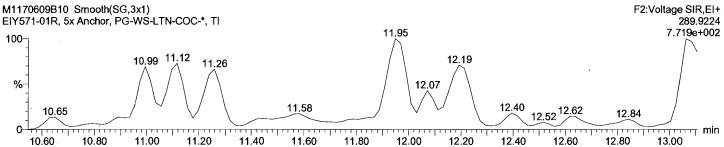
Description: EIY571-01R, 5x

Vial: 10

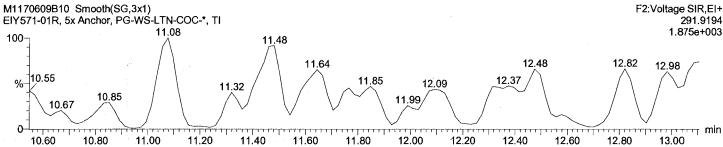
Printed:

Date: 10-Jun-2017 Time: 02:12:44 Instrument:

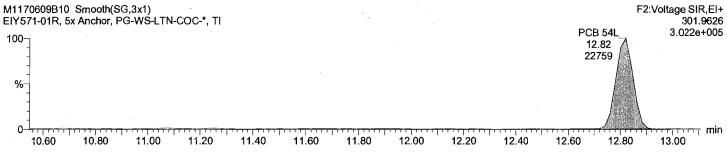




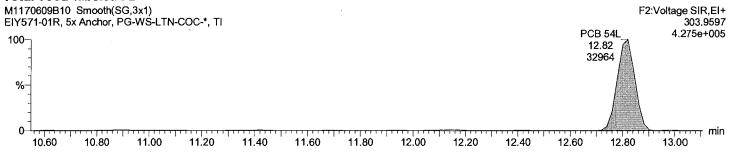
Total TeCB F2



Total TeCB labeled F2



Total TeCB labeled F2



Acquired Date Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B dil 1668A.qld

Last Altered: Printed:

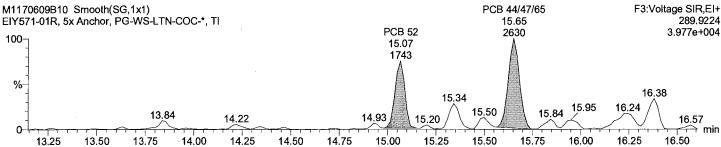
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY571-01R, 5x

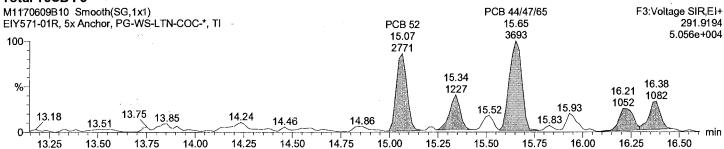
Vial: 10

Date: 10-Jun-2017 Time: 02:12:44 Instrument:

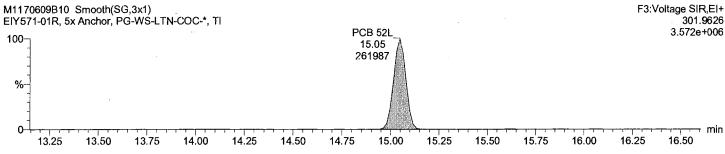




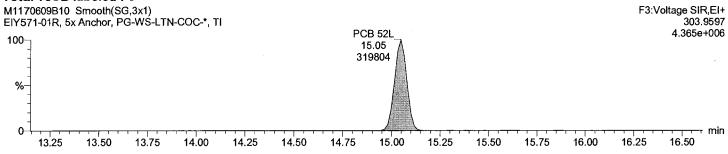




Total TeCB labeled F3



Total TeCB labeled F3



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Last Altered:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

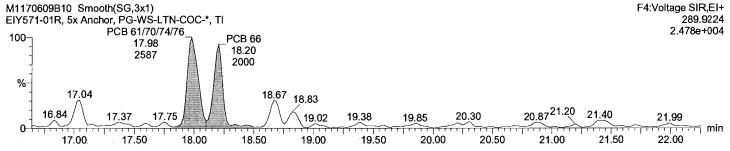
Description: EIY571-01R, 5x

Vial: 10

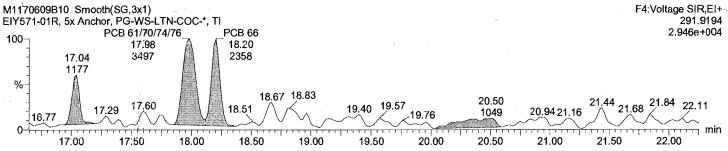
Printed:

Date: 10-Jun-2017 Time: 02:12:44 Instrument:

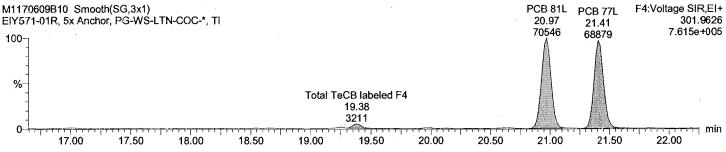
Total TeCB F4



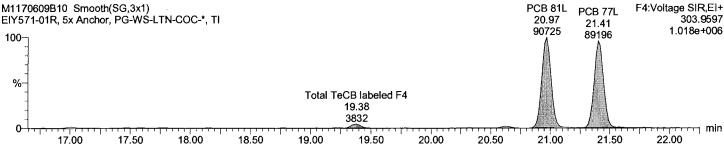
Total TeCB F4







Total TeCB labeled F4



C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

Acquired Date

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY571-01R, 5x

Vial: 10

Date: 10-Jun-2017 Time: 02:12:44 Instrument:



F3:Voltage SIR,EI+ M1170609B10 Smooth(SG,3x1) 325.8805 EIY571-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 13.66 1.598e+003 15,93 % 13.92 14.30 14.74 15.01 15.24 13.15 13.34 16,29 16.45 16.07 14.53 15.34 14.10 15.53 15.78 0 − min 14.75 16.50

15.00

15.25

15.50

15.75

16.00

16.25

Total PeCB F3

13.25

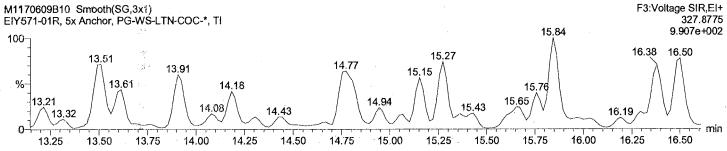
13.50

13.75

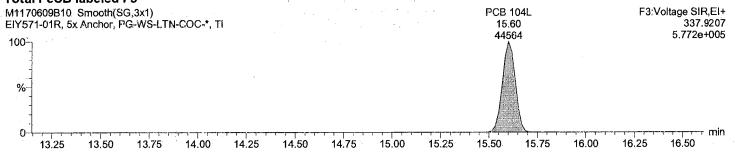
14.00

14.25

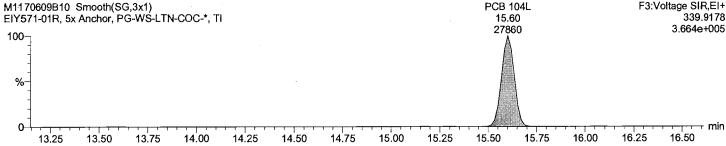
14.50



Total PeCB labeled F3



Total PeCB labeled F3



Acquired Date

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

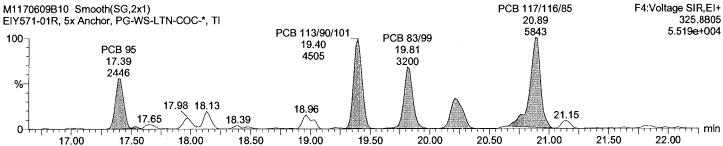
Description: EIY571-01R, 5x

Vial: 10

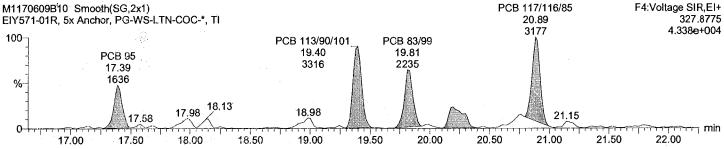
Printed:

Date: 10-Jun-2017 Time: 02:12:44 Instrument:

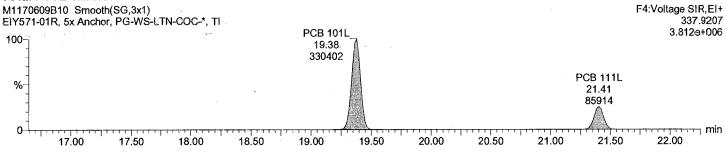




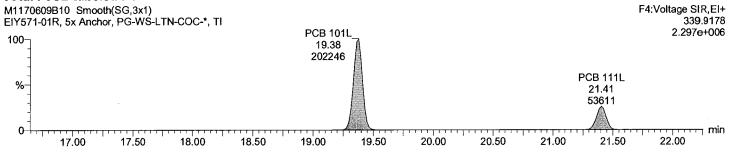
Total PeCB F4



Total PeCB labeled F4



Total PeCB labeled F4



C:\MassLynx\Default.pro\QLD\M1170609B dil 1668A.qld

Last Altered:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

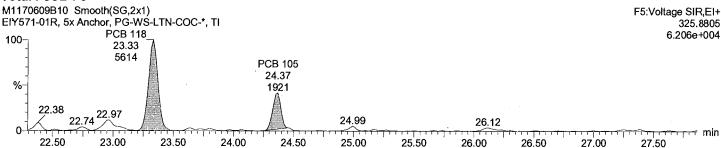
Description: EIY571-01R, 5x

Vial: 10

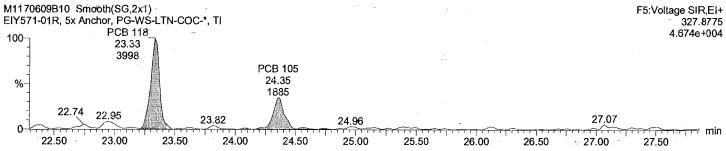
Printed:

Date: 10-Jun-2017 Time: 02:12:44 Instrument:

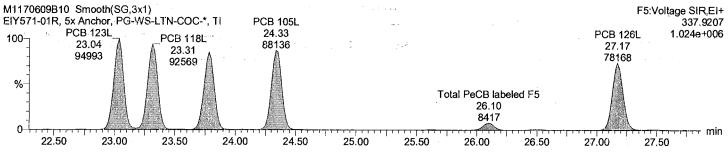
Total PeCB F5



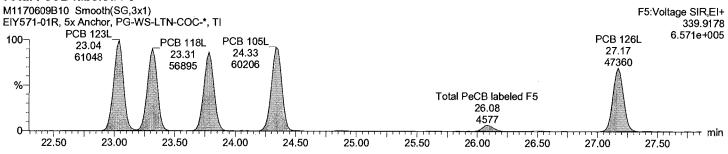
Total PeCB F5



Total PeCB labeled F5



Total PeCB labeled F5



18.00

17.50

18.50

19.00

Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

Acquired Date

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY571-01R, 5x

Vial: 10

Date: 10-Jun-2017 Time: 02:12:44 Instrument:



F4:Voltage SIR,EI+ M1170609B10 Smooth(SG,3x1) EIY571-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 359.8415 21.60 7.259e+003 100-19.80 % 22.05 19.38 19.48 18.05 20.09 17.60 20.40 ∃ min

19.50

20.00

20.50

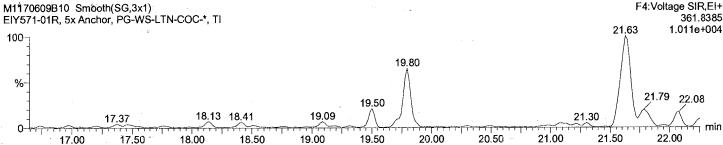
21.00

21.50

22.00

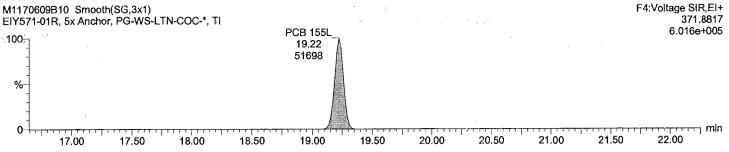
Total HxCB F4

17.00

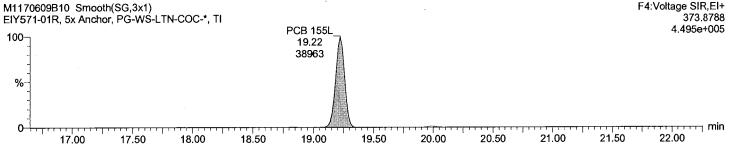


Total HxCB labeled F4

iii.



Total HxCB labeled F4



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Last Altered: Printed:

Acquired Date

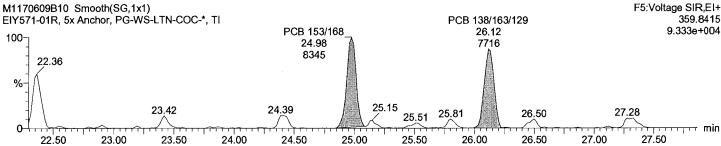
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY571-01R, 5x

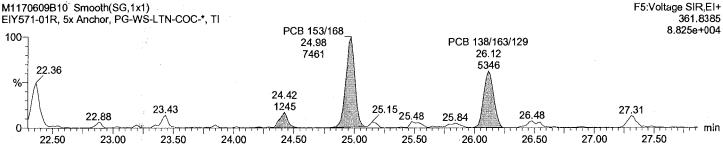
Vial: 10

Date: 10-Jun-2017 Time: 02:12:44 Instrument:

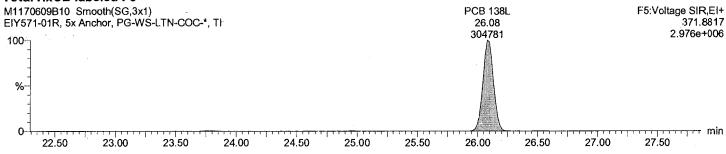




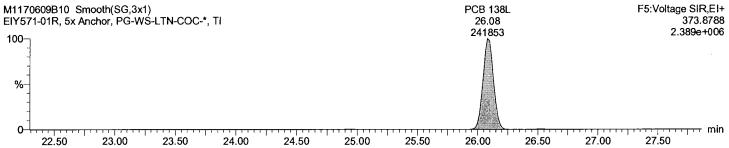
Total HxCB F5



Total HxCB labeled F5



Total HxCB labeled F5



Acquired Date

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Last Altered:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY571-01R, 5x

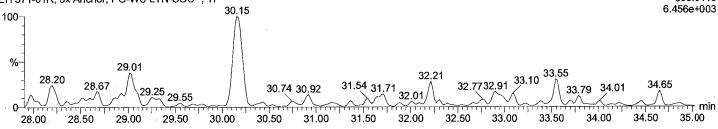
Vial: 10

Printed:

Date: 10-Jun-2017 Time: 02:12:44 Instrument:

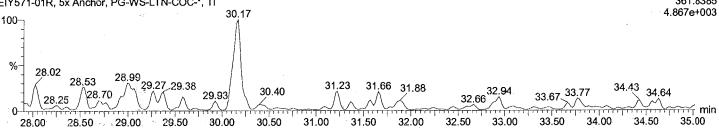
Total HxCB F6

M1170609B10 Smooth(SG,3x1) EIY571-01R, 5x Anchor, PG-WS-LTN-COC-*, TI F6:Voltage SIR,EI+ 359.8415



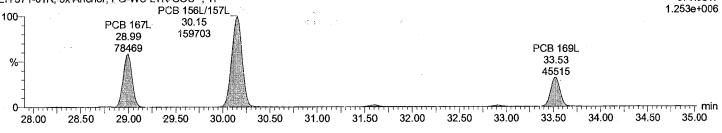
Total HxCB F6

M1170609B10 Smooth(SG,3x1) EIY571-01R, 5x Anchor, PG-WS-LTN-COC-*, TI F6:Voltage SIR,EI+ 361.8385



Total HxCB labeled F6

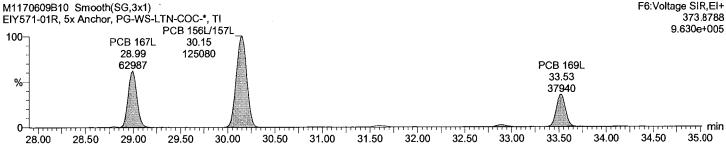
M1170609B10 Smooth(\$G,3x1) EIY571-01R, 5x Anchor, PG-WS-LTN-COC-*, TI F6:Voltage SIR,EI+ 371.8817



Total HxCB labeled F6

EIY571-01R, 5x Anchor, PG-WS-LTN-COC-*, TI

F6:Voltage SIR,EI+



Acquired Date

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Last Altered: Printed:

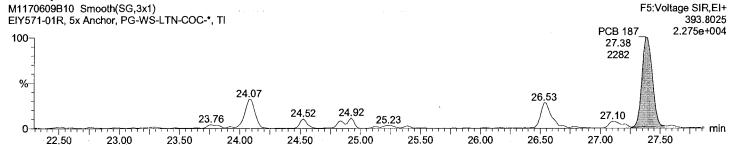
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY571-01R, 5x

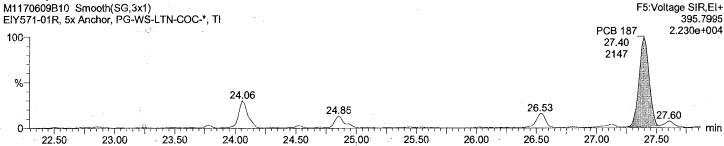
Vial: 10

Date: 10-Jun-2017 Time: 02:12:44 Instrument:

Total HpCB F5



Total HpCB F5

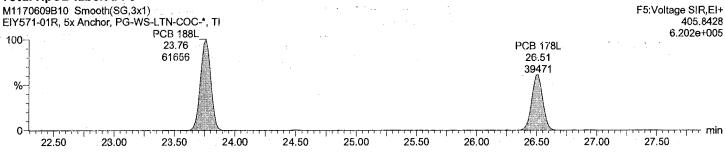


25.00

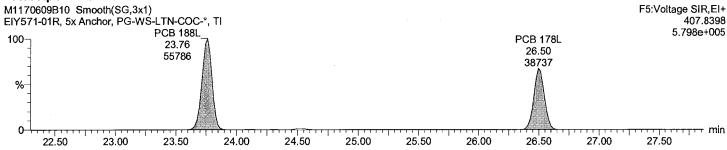
24.50

Total HpCB labeled F5

22.50



Total HpCB labeled F5



Acquired Date

Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

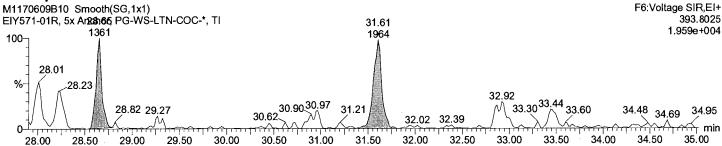
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY571-01R, 5x

Vial: 10

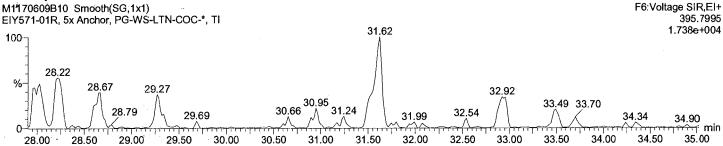
Date: 10-Jun-2017 Time: 02:12:44 Instrument:



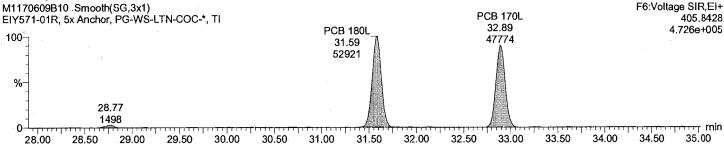


Total HpCB F6

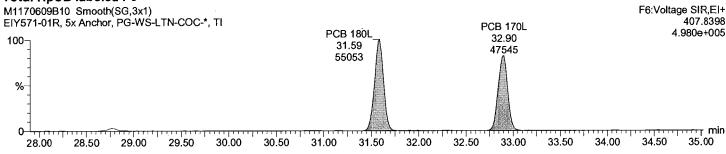
Ages.



Total HpCB labeled F6



Total HpCB labeled F6



C:\MassLynx\Default.pro\QLD\M1170609B dil_1668A.qld

39.0

38.0

Last Altered: Printed:

Acquired Date

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY571-01R, 5x

Vial: 10

Date: 10-Jun-2017 Time: 02:12:44 Instrument:



M1170609B10 Smooth(SG,3x1)

F7:Voltage SIR,EI+ EIY571-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 393.8025 44.18 1.844e+003 100 35.77 42.71 42.98 36.38 40.81 41.21 38.69 37.94 45.58 44.09 44.45 45.12 39.45 43.51 39.85 41.73 42.04 % 37.74 36.78 45.94 35.31 0 min 36.0 37.0 38.0 39.0 40.0 41.0 42.0 43.0 44.0 45.0 46.0

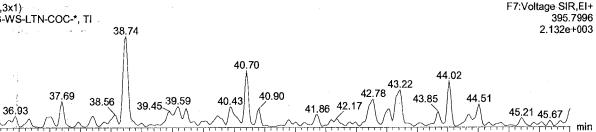
Total HpCB F7

100

%

M1170609B10 Smooth(SG,3x1) EIY571-01R, 5x Anchor, PG-WS-LTN-COC-*, TI

36.29



42.0

43.0

44.0

45.0

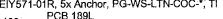
46.0

Total HpCB labeled F7

35.82

M1170609B10 Smooth(SG,3x1)

36.0



37.0

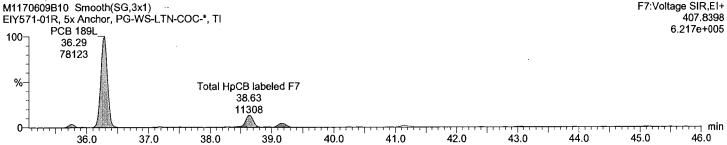
F7:Voltage SIR,EI+ EIY571-01R, 5x Anchor, P.G-WS-LTN-COC-*, TI 405.8428 6.111e+005 PCB 189L 100 36.29 75660 % Total HpCB labeled F7 38.65 14223 41.17 2592 → min 36.0 37.0 38.0 39.0 40.0 41.0 42.0 43.0 44.0 45.0 46.0

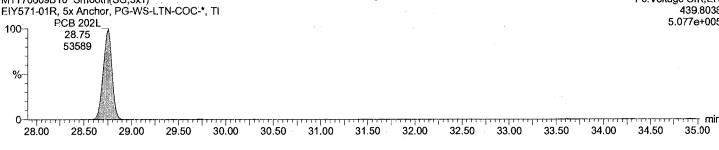
41.0

40.0

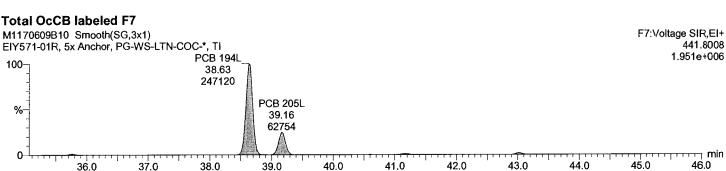
Total HpCB labeled F7

M1170609B10 Smooth(SG.3x1)





Total OcCB labeled F6 M1170609B10 Smooth(SG,3x1) F6:Voltage SIR,EI+ 441.8008 EIY571-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 5.396e+005 **PCB 202L** 100 28.75 58294 0 min 33.00 33.50 34.00 34.50 35.00 32.00 32.50 28.00 28.50 29.00 29.50 30.00 30.50 31.00 31.50



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Last Altered: Printed:

Acquired Date

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY571-01R, 5x

36.0

37.0

38.0

39.0

Vial: 10

Date: 10-Jun-2017 Time: 02:12:44 Instrument:



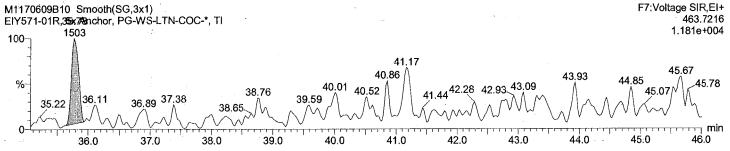
F7:Voltage SIR,EI+ M1170609B10 Smooth(SG,3x1) 461,7246 EIY571-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 8.552e+003 41.19 100 35.80 44.29 % 41.48 44.56 36.82 38,54 38.83 39.70 44.18 45,65 40.10 42.49.42.62 _{43.80}. 45.78 40.79 35.53 37.74 36 62 37.38 min 0 43.0 46.0 44.0 45.0

41.0

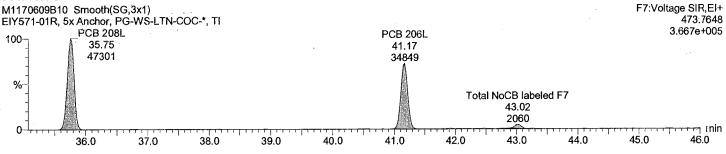
42.0

40.0

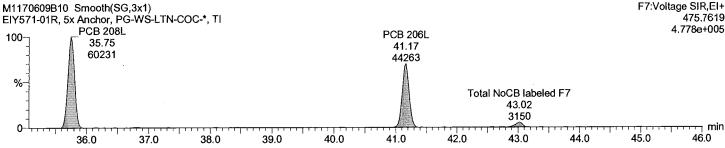
Total NoCB F7



Total NoCB labeled F7



Total NoCB labeled F7



38.0

Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

Acquired Date

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY571-01R, 5x

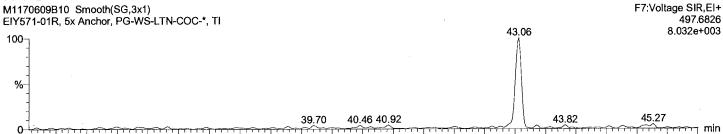
36.0

37.0

Vial: 10

Date: 10-Jun-2017 Time: 02:12:44 Instrument:





41.0

40.0

39.0

42.0

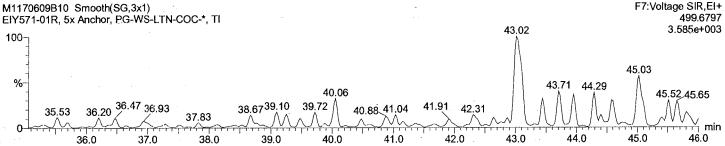
43.0

44.0

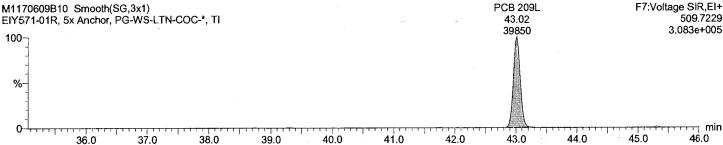
45.0

46.0

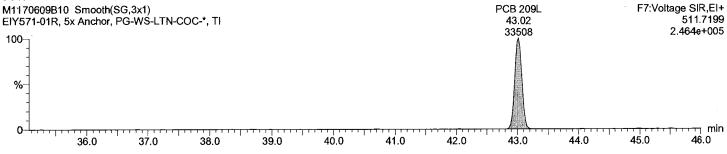








Total DeCB labeled F7



17.00

17.50

18.00

18.50

19.00

19.50

20.00

20.50

21.50

21.00

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Last Altered:

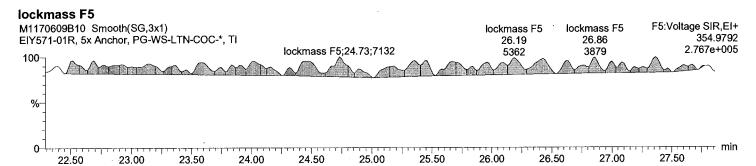
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

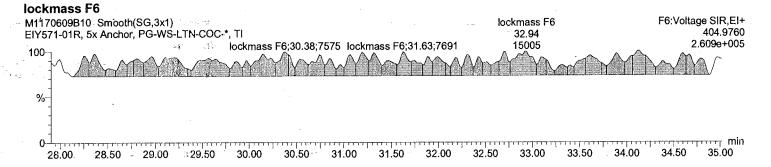
Description: EIY571-01R, 5x

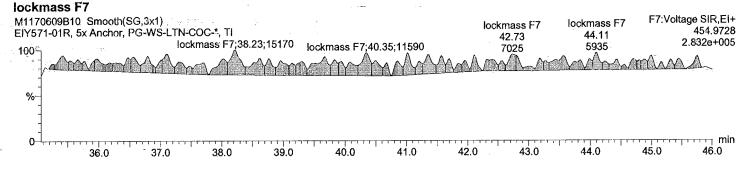
Vial: 10

Printed:

Date: 10-Jun-2017 Time: 02:12:44 Instrument:







Filename M1170609B11 Acquired 10/06/2017 3:02

Call File PCB209_M1170609B

Sample ID EIY572-01R, 5x Comments Instrument File Ultima 1 Sample Size 10.013

Dil Fac 1.00

5X

Name 1 PCB 1	mass 188	NotFnd	Area	ratio *	Tot Area	a ng/g	Code	DL 0.001	S/N	Mod no	rrf 1.053	Rec
2 PCB 2	MoCB 190 188	8.83 NotFnd	:	no •	*			0.001		по	1.198	_
3 PCB 3	MoCB 190 188	9.92 NotFnd		no *				0.001		no	1.055	
4 PCB 4	MoCB 190 222	10,01 NotFnd	:	no *								-
	DICB 224	10.12		no				0.004		no	1.191	-
5 PCB 10	222 DICB 224	NotFnd 10.21	•	no	·			0.002		no	1.156	-
6 PCB 9	222 DICB 224	NotFnd 11.01	•	no	•			0.004		no	1.544	-
7 PCB 7	222 DICB 224	NotFnd 11.09	:	no	*			0.004		no	1.399	-
8 PCB 6	222 DICB 224	NotFnd 11.19	•	*	•			0.004		no	1.424	-
9 PCB 5	222	NotFnd	•	no •	•			0.004		no	1.462	-
10 PCB 8	DICB 224 222	11.31 NotFnd	•	no •	•			0.004		no	1,443	_
11 PCB 14	DiCB 224 222	11.37 NotFnd	:	no •				0.004		no	1.506	_
12 PCB 11	DICB 224 222	12.05 1 2. 41	4560	no 1.41	7784	0.011936		0.004	53	no	1,42	
13 PCB 13/12	DICB 224 222	12.42 NotFnd	3223	yes		0.01.000			5			-
	DICB 224	12.56	:	no				0.004		no	1.443	-
14 PCB 15	222 DICB 224	NotFnd 12.70		no	•			0.005		no	0.956	-
15 PCB 19	256 TrlCB 258	NotFnd 11.48	:	no	•			0.004		no	1.06	-
16 PCB 30/18	256 TriCB 258	12.27 12.27	1278 1057	1.21 no	2335	0.004102		0.002	15 11	no	1.033	-
17 PCB 17	256 TriCB 258	NotFnd 12.48		*	•			0.003	• •	no	0.838	-
18 PCB 27	256	NotFnd		no *	•			0.002		no	1.164	-
19 PCB 24	TriCB 256	12.56 NotFnd	•	no *	*		•	0.002		no	1.35	
20 PCB 16	TrlCB 258 256	12.61 NotFnd	:	no •				0.004		no	0.606	
21 PCB 32	TrlCB 258 256	12.69 NotFnd	:	no •			*	0.002		no	1.334	
22 PCB 34	TriCB .258 256	12.90 NotFnd	:	no *								-
23 PCB 23	TriCB 258	13.48	:	no				0.001		no	1.427	-
	256 TriCB 258	NotFnd 13.56	•	no	•			0.001		no	1.32	-
24 PCB 26/29	256 TrICB 258	NotFnd 13.72	:	no	•			0.001		no	1.443	-
25 PCB 25	256 TriCB 258	NotFnd 13.85	•	no no	•			0.001		no	1.389	-
26 PCB 31	256 TriCB 258	NotFnd 14.01	:	•	*			0.001	*	по	1.527	-
27 PCB 28/20	256	14.13	1647	0.95	3384	0.004262		0.001	21	no	1.441	-
28 PCB 21/33	TriCB 258 256	14.16 NotFnd	1737 *	yes *	•			0.001	39	no	1.391	_
29 PCB 22	TriCB 258 256	14.27 NotFnd		no *				0.001		no	1.357	
30 PCB 36	TriCB 258 256	14.47 NotFnd	*	no *				0.001		no	1.632	
31 PCB 39	TrlCB 258 256	15.30 NotFnd		no								•
32 PCB 38	TriCB 258	15.50	:	no				0.001		no	1.448	-
	256 TrlCB 258	NotFnd 15.87	•	no				0.001		no	1.474	-
33 PCB 35	256 TriCB 258	NotFnd 16.10	:	no	•			0.001		no	1.4	-
34 PCB 37	256 TriCB 258	NotFnd 16.38	:	no no	•			0.001		no	0.951	-
35 PCB 54	290 TCB 292	NotFnd 12.82	•	no	*			0.001		no	1.071	-
36 PCB 53/50	290 TCB 292	NotFnd 13.86	:	•	•			0.001		no	0.861	-
37 PCB 45/51	290	NotFnd	•	no +	•			0.001		no	0.832	-
38 PCB 46	TCB 292 290	14.21 NotFnd	:	no •				0.001		no	0.718	
39 PCB 52	TCB 292 290	14.35 15.07	2863	no 0.72	6851	0.010898		0.001	82	no	0.961	_
40 PCB 73	TCB 292 290	15.05 NotFnd	3988	yes	•				39			-
41 PCB 43	TCB 292	15.14	:	no				0.001		no	1.012	-
	290 TCB 292	NotFnd 15.21		no				0.001		no	0.787	-
42 PCB 69/49	290 TCB 292	15.34 15.34	1201 1632	0.74 yes	2832	0.004543		0.001	34 17	no	0.953	* *
43 PCB 48	290 TCB 292	NotFnd 15.50	:	no	•			0.001		no	0.848	-
44 PCB 44/47/65	290 TCB 292	15.67 15.64	3178 4305	0.74 yes	7484	0.012478		0.001	90 42	no	0.917	-
45 PCB 59/62/75	290	NotFnd	*	*	•			0.001	42	no	1.12	-

	TCB 292	15.84		no							
46 PCB 42	290 TCB 292	NotFnd 15.94		•	٠		0.001		no	0.728	-
47 PCB 40/41/71	290	NotFnd	•	no •	*		0.001		no	0.85	-
48 PCB 64	TCB 292 290	16.23 NotFnd		no *			0.001		no	1.079	_
	TCB 292	16.37	•	no							
49 PCB 72	290 TCB 292	NotFnd 16.90	•	no	-		0.001		no	1.426	-
50 PCB 68	290 TCB 292	17.04 17.09	1465 1628	0.9 no	3092	0.003399	0.001	23 13	no	1.39	-
51 PCB 57	290	NotFnd		•	•		0.001	15	no	1.359	
52 PCB 58	TCB 292 290	17.36 NotFnd	:	no *	•		0.001		no	1.206	
53 PCB 67	TCB 292 290	17.50 NotFnd		no *			0.001			1.485	
	TCB 292	17.59	. •	no					no	1.400	-
54 PCB 83	290 TCB 292	NotFnd 17.76	•	no	*		0.001		no	1.419	-
55 PCB 61/70/74/7		17.98 18.01	2970 3710	0.8	6681	0.007746	0.001	39	no	1.318	-
56 PCB 66	290	18.20	1125	yes 0.58	3058	0.003376	0.001	26 14	no	1.384	-
57 PCB 55	TCB 292 290	18.24 NotFnd	1933	no *			0.001	16	no	1.248	_
58 PCB 56	TCB 292	18.37		no *							
	290 TCB 292	NotFnd 18.70	•	no			0.001		no	1.286	•
59 PCB 60	290 TCB 292	NotFnd 18.87	:	no	•		0.001		no	1.277	•
60 PCB 80	290 TCB 292	NotFnd		• .	•		0.001	-	no	1.5	-
61 PCB 79	290	19.10 NotFnd	•	no •	•		0.001		no	1.544	٠.
62 PCB 78	TCB 292 290	20.23 NotFnd	:	no •			0.001		no	1.394	_
63 PCB 81	TCB 292	20.67	*	no							
	290 TCB 292	NotFnd 21.01	•	no			0.001		по	1.02	•
64 PCB 77	290 TCB 292	NotFnd 21.44	:	no	•		0.001		no	1.016	-
65 PCB 104	326 PeCB 328	NotFnd	•	•	•		0		no	1.194	-
66 PCB 96	326	15.64 NotFnd	•	no •	•		0		no	0.819	-
67 PCB 103	PeCB 328 326	15.85 NotFnd		, no			0.001		по	0.834	
68 PCB 94	PeCB 328 326	16.98 NotFnd		no •			0.001		no	0.668	
	PeCB 328	17.12	•	по							-
69 PCB 95	326 PeCB 328	17.41 17.40	2302 1402	1.64 yes	3704	0.006611	0.001	70 20	no	0.789	-
70 PCB 100/93/102	/98 326 PeCB 328	NotFnd 17.54	*	no	•		0.001		no	0.724	-
71 PCB 88/91	326 PeCB 328	NotFnd	•	*	•		0.001		no	0.739	-
72 PCB 84	326	17.95 NotFnd	•	no •	•		0.001		no	0.66	-
73 PCB 89	PeCB 328 326	18.12 NotFnd	•	no *	•		0.001		no	0.717	_
74 PCB 121	PeCB 328 326	18.45 NotFnd	*	no *			0.001		no	0.972	
	PeCB 328	18.70	•	no							-
75 PCB 92	326 PeCB 328	NotFnd 18.96		no	•		0.001		no	0.75	-
76 PCB 113/90/101	326 PeCB 328	19.41 19.38	8366 5561	1.5 yes	13928	0.022939	0.001	254 58	no	0.856	-
77 PCB 83/99	326	19.83	2429	1.55	3993	0.007352	0.001	70	no	0.765	-
78 PCB 112	PeCB 328 326	19.84 NotFnd	1564	yes •	•		0.001	18	no	0.907	_
79 PCB 109/119/86/	PeCB 328	19.92 20.25	2031	no 1,28	3623	0.005839	0.001	44	no	0.874	
	PeCB 328	20.21	1592	ho				10			
80 PCB 117/116/85	326 PeCB 328	20.90 20.76	4893 2257	2.17 no	7150	0.011051	0.001	117 22	no	0.912	-
81 PCB 110/115	326 PeCB 328	NotFnd 20.88	•	no	•		0.001		no	0.93	-
82 PCB 82	326 PeCB 328	NotFnd 21.15	:	• no	•		0.001		no	0.681	-
83 PCB 111	326	NotFnd	:	*	•		0.001		no	1.022	-
84 PCB 120	PeCB 328 326	21.45 NotFnd	:	no *	•		0.001		no	1.091	
85 PCB 108/124	PeCB 328 326	21.81 NotFnd	:	no *			0		no	1.201	_
86 PCB 107	PeCB 328	22.76	:	no *							
	326 PeCB 328	NotFnd 22,97	•	no			0		no	1.375	•
87 PCB 123	326 PeCB 328	NotFnd 23.06	:	no	•		0.001		no	0.921	-
88 PCB 106	326 PeCB 328	NotFnd 23.17		no	•		0		no	1.282	-
89 PCB 118	326	23.35	4097	1.29	7279	0.009197	0	56	no	1.028	-
90 PCB 122	PeCB 328 326	23.33 NotFnd	3183	no •			0	74	no	1.158	-
91 PCB 114	PeCB 328 326	23.63 NotFnd	:	no •			0		no	1.023	_
	PeCB 328	23.82	1562	no	0755	0.003520		40			
92 PCB 105	326 PeCB 328	24.39 24.38	1563 1192	1.31 no	2755	0.003532	0	18 29	no	1.024	-
93 PCB 127	326 PeCB 328	NotFnd 25.69	•	no no	•		0		no	1.256	-
94 PCB 126	326 PeCB 328	NotFnd 27,22		*	•		0.001		no	1.093	-
	. 600 320	21,22		no							

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Q.	5 PCB 155		360	NotFnd					0		no	1.103	_
		HxCB	362	19.26	•	no					110		-
96	6 PCB 152	HxCB	360	NotFnd 19.40	:	no	•		0		no	0.849	-
97	7 PCB 150		360	NotFnd	*	•	•		0		no	0.77	-
98	8 PCB 136	HxCB	362 360	19.53 NotFnd		no *			0		no	0.816	_
		HxCB	362	19.78	*	no							
98	9 PCB 145	НхСВ	360 362	NotFnd 20.03	•	no			0 .		uo	0.755	-
100	PCB 148		360	NotFnd	•	•	•		0		no	0.617	-
101	1 PCB 151/135	HxCB	362	21.13 NotFnd	•	no •			0		no	0.6	_
400	2 PCB 154	HxCB		21.61	•	no			٥			0.004	
102	2 PCB 154	НхСВ	360 362	NotFnd 21.82	*	no			0		no	0.691	-
103	3 PCB 144	НхСВ	360	NotFnd	:	*	•		0		no	0.618	-
104	1 PCB 147/149	HIXCD	360	22.07 NotFnd		no *			0.001		no	0.809	
105	5 PCB 134/143	HxCB	362 360	22.36 NotFnd	:	no *			0.001		no	0.689	_
		НхСВ	362	22.61	•	no					iio		-
106	3 PCB 139/140	HxCB	360	NotFnd 22.88		no	•		0.001		no	0.804	-
107	PCB 131		360	NotFnd	•		*		0.001		no	0.849	-
108	3 PCB 142	HxCB	362 360	23.05 NotFnd		no •			0.001		по	0.718	_
		HxCB	362	23.19	•	no							
109	PCB 132	НхСВ	360 362	NotFnd 23.44	:	no	•		0.001		no	0.7	-
110	PCB 133		360	NotFnd	•	*	•		0.001		no	0.786	-
111	PCB 165	HxCB	362 360	23.86 NotFnd	:	no *			0.001		no	0.992	_
		HxCB	362	24.21	:	no							
112	PCB 146	НхСВ	360 362	NotFnd 24.41		no			0.001		no	0.895	
113	PCB 181	LIVOR	360	NotFnd	:	•	•		0.001		no	1.015	-
114	PCB 153/168	HxCB	360	24.53 NotFnd		no •			0.001		no	0.993	_
115	PCB 141	HxCB	362 360	24.99 NotFnd	:	no *			0.001		no	0.784	
		НхСВ	362	25.14	•	no			0.001		no	0.764	-
116	PCB 130	НхСВ	360 362	NotFnd 25.51	:	no	*		0.001		no	0.716	-
117	PCB 137		360	NotFnd		•	•		0.001		no	0.675	-
118	PCB 164	HxCB	362 360	25.75 NotFnd	:	no •			0.001		no	1.109	_
		НхСВ	362	25.83	•	no		-					
119	PCB 138/163/129	НхСВ	360 362	NotFnd 26.15	•	no	-		0.001		no	0.847	-
120	PCB 160		360	NotFnd	•	*	•		0.001		no	0.943	-
121	PCB 158	HxCB	360	26.30 NotFnd		no *			0.001		no	1.103	
122	PCB 128/166	HxCB	362 360	26.47 NotFnd	:	no •			0.001			0.024	
122	PCB 126/106	НхСВ		27.31	*	no			0.001		no	0.934	•
123	PCB 159	НхСВ	360	NotFnd 28.27	:	, no	•		0		no	1.254	-
124	PCB 162		360	NotFnd	•	•	•		0		no	1.204	-
125	PCB 167	HxCB	362 360	28.53 NotFnd	:	no •			0		no	1.103	
		НхСВ	362	29.02	•	no							
126	PCB 156/157	НхСВ	360 362	NotFnd 30.18	:	no	•		0		no	1.047	•
127	PCB 169		360	NotFnd		*	*		0.001		no	1.04	-
128	PCB 188	HxCB	394	33.56 NotFnd		no *			0.001		no	1.069	
400	DOD 470	НрСВ		23.79	:	no			0.004			4 400	
129	PCB 179	НрСВ	394 396	NotFnd 24.07		no			0.001		no	1.122	•
130	PCB 184		394	NotFnd 24.55	:	•	*		0.001		no	1.054	-
131	PCB 176	-	394	NotFnd	•	no •			0.001		no	1.032	
132	PCB 186	НрСВ	396 394	24.86 NotFnd	:	no •			0.001		no	0.965	_
		HpCB	396	25.26	•	no							-
133	PCB 178	НрСВ	394 396	NotFnd 26.54	•	no	•		0.001		no	0.77	-
134	PCB 175		394	NotFnd	•	*	•		0.001		no	0.803	-
135	PCB 187	НрСВ	396 394	27.14 27.42	2998	no 1.18	5542	0.011159	0.001	41	no	0.814	
		НрСВ	396	27.37	2544	yes	_			63			
136	PCB 182	НрСВ	394 398	NotFnd 27.59	•	no	-		0.001		no	0.797	-
137	PCB 183		394	NotFnd	:	*	*		0.001		no	1.01	-
138	PCB 185	НрСВ	394	27.99 NotFnd	•	no •			0.001		no	0.813	-
	PCB 174	НрСВ	396	28.08 NotFnd	:	no •			0.001			0.901	
		НрСВ		28.24	•	no					no		-
140	PCB 177	НрСВ	394 396	28.67 28.65	1004 1131	0.89 no	2136	0.003988	0.001	21 24	no	0.878	-
141	PCB 161		394	NotFnd	*	*	*		0.001		no	0.887	-
142	PCB 171/173	НрСВ	396 394	29.06 NotFnd	:	no *			0.001		no	0.854	_
		НрСВ	396	29.28	:	no	_						
143	PCB 172	НрСВ	394 396	NotFnd 30.93		no	•		0.001		no	0.869	-
144	PCB 192		394	NotFnd	•	*	•		0.001		no	1.06	-

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		НрСВ		31.24		no							
145 PC	B 193/180	НрСВ	394 396	31.63 31.59	2943 2952	1 yes	5896	0.009231	0.001	50 60	no	1.172	-
148 PC		НрСВ	394 398	NotFnd 31.97	:	* no	•		0.001		no	1.188	~
147 PC	B 170	НрСВ	394	32.96 32.94	1302 1437	0.91 yes	2739	0.004978	0.001	18 26	no	1.171	-
148 PC	B 190	•	394	NotFnd	*	•	•		0.001	20	no	1.165	-
149 PC	B 189	НрСВ	394	33.50 NotFnd	•	no •	•		0		no	0.922	-
150 PC		НрСВ	398 428	36.32 28.79	399	no 0.72	955	0.001552	0.001	8	yes	1.031	
151 PC		ОсСВ	430 428	28.78 NotFnd	556 •	no •			0.001	15	no	1.078	
152 PCI		OcCB		29.70 NotFnd		no *			0.001		no	1.06	
		OcCB	430	30.39		no •							
153 PC		OcCB		NotFnd 30.62		no			0.001		no	1.082	
154 PCI		ОсСВ	428 430	NotFnd 30.74		no			0.001		no	1.016	
155 PCI	B 198/199	ОсСВ	428 430	33.70 33.67	1048 1571	0.67 no	2619	0.005493	0.001	16 24	no	0.777	
156 PCI		OcCB	428 430	34.41 34.41	464 568	0.82 yes	1032	0.002054	0.001	10 10	yes	0.819	
157 PCI	B 203	OcCB	428	34.64 34.60	534 284	1.88	818	0,001617	0.001	9 7	yes	0.825	
158 PCI	B 195		428	36.04	313	no 1.61	507	0.000888	0.001	5	yes	0.931	
159 PCI	B 194		428	36.05 38.65	194 676	no 0.72	1610	0.002729	0.001	9	yes	0.962	
160 PCE		ОсСВ	430 428	38.68 NotFnd	934	no *	• • • • • • • • • • • • • • • • • • • •		0.001	30	no	0.992	
161 PC		OcCB	430 462	39.23 NotFnd		no *			0.002	ļ.	ho	1.042	
162 PC	ı	NoCB		35.81 NotFnd	*	no *			0.001		no	1.302	_
	1	NoCB	464	36.85	*	no	0400	0.004005					-
163 PC	ı	NoCB		41.21 41.17	1018 1084	0.94 no	2102	0.004985	0.002	9 5	no	1.017	-
164 PCE		DCB	498 500	NotFnd 43.06	:	no	•		0		no	1.026	-
165 PC	B 1L		200 202	8.82 8.82	56070 15984	3.51 yes	72054	0.073487	0.004	1181 20	no	0.997	37
166 PCE	B 3L		200 202	10.00 9.99	61021 17807	3.43 yes	78828	0.076326	0.004	1271 21	no	1.05	38
167 PCE	B 41.		234	10.11	24374	1.49	40682	0.089087	0.004	106	no	0.464	45
168 PCE	B 15L		236 234	10.10 12.70	16308 88848	yes 1.65	142775	0.124326	0.003	123 108	no	1.168	82
169 PCE	B 19L		236 268	12.69 11.48	53927 27833	yes 1.02	55196	0.104752	0.005	201 57	no	0.536	52
170 PCE	B 37L		270 268	11.47 16.35	27363 85889	yes 1.09	164885	0.165202	0.003	70 169	no	1.848	83
171 PCE	B 54L	:	270 302	16.35 12.82	78997 26049	yes 0.84	56880	0.131285	0.001	141 229	no	0.802	66
172 PCE		:	304 302	12.82 20.99	30831	yes	168282			424			98
		:	304	20.97	73606 94676	0.78 yes		0.195032	0.001	224 813	no	1.597	
173 PCE			3 02 304	21.42 21.42	72416 94489	0.77 yes	166906	0.192267	0.001	224 803	no	1.607	96
174 PCE	3 104L		338 340	15.62 15.64	52838 32472	1.63 yes	85309	0.183179	0	6248 1652	no	0.912	92
175 PCE	3 123L		338 340	23.04 23.02	102458 61970	1.65 yes	164428	0.203587	0.001	730 904	no	1.581	102
176 PCE	3 118L	:	338 340	23.33 : 23.31	94576 591 7 2	1.6 yes	153748	0.199343	0.001	692 851	no	1.51	100
177 PCB	3 114L	:	338	23.80	92807	1.54	153184	0.203821	0.001	662	no	1.471	102
178 PCE	3 105L	:	340 338	23.78 24.35	60377 92303	yes 1.54	152060	0.199983	0.001	854 664	no	1.488	100
179 PCE	3 126L	:	340 338	24.34 27.19	59757 86485	yes 1.56	142044	0.192999	0.001	846 572	no	1.44	97
180 PCE	3 155L		340 372	27.15 19.24	55558 54326	yes 1,22	98893	0.182133	0	724 2 947	ňo	1.01	91
181 PCE	3 167L		374 372	19.26 28.99	44567 82521	yes 1.26	148100	0.193513	0.001	1378 430	no	1.424	97
	3 156L/157L	:	374 3 72	29.00 30.15	65579 171955	yes 1,27	307002	0.382205	0.001	720 744	yes	1.495	96
		;	374	30.15	135047	yes				1203			
183 PCB		:	372 374	33.53 33.54	51809 40350	1.28 yes	92159	0.112983	0.001	235 381	no	1.518	57
184 PCB	3 188L		406 408	23.76 23.78	62234 58153	1.07 yes	120386	0.196075	0.001	949 891	no	1.142	98
185 PCB	3 180L		406 408	31.59 31.58	56009 52874	1.06 yes	108883	0.18477	0.001	730 1925	no	1.343	93
186 PCB	3 170L	4	406 408	32.90 32.89	47954 45937	1.04 yes	93891	0.187441	0.001	646 1659	yes	1.141	94
187 PCB	3 189L		\$06	36.29	83626	1.04	164340	0.194725	0.001	375	no	1.923	97
188 PCB	3 202L	- 4	108 140	36.29 28.75	80714 54042	yes 0.83	119270	0.200874	0.001	793 1748	no	1.353	101
189 PCB	3 205L	-	142 140	28.76 39.19	65228 61872	yes 0.97	125786	0.201287	0.001	1177 843	no	1.424	101
190 PCB	3 208L		142 174	39.19 35.78	63914 50790	yes 0.78	115691	0.201333	0.001	572 723	no	1.309	101
191 PCB		4	76 174	35.79 41.17	64901 37118	yes 0.81	82862	0.204445	0.001	946 502	no	0.924	102
192 PCB		4	76 510	41.20 43.02	45744 43068	yes 1.15	80584	0.221672	0.001	660		0.828	111
		5	512	43.06	37518	yes				1869 2304	no		
193 PCB PC	B Cleanup Stan		2 68 270	14.13 14.13	93027 91372	1.02 yes	184399	0.173375	0.003	198 178	no	1.969	78

Maxxam Analytics Page 2496 of 2579

194	PCB 111L	338	21.42	90294	1.57	147990	0.210975	0	2021	no	1.373	95
	PCB Cleanup Standard	340	21.40	57696	yes				2026			
195	PCB 178L	406	26.51	48786	1.09	93568	0.237742	0.001	724	no	0.732	107
	PCB Cleanup Standard	408	26.52	44782	yes				680			
196	PCB 31L	268	NotFnd	•	´+	•		0.003		no	1.878	
	PCB Audit Standard	270	13.98	•	no							
197	PCB 95L	338	NotFnd	*	•	*		0		no	0.916	
	PCB Audit Standard	340	17.38	•	no			-				
198	PCB 153L	372	24.96	1664	1.29	2954	0.004687	0.001	41	no	1.173	2
	PCB Audit Standard		24.98	1290	yes		0,001001	0.001	21	110	1.170	-
199	PCB 9L	234	10.99	663916	1.56	1090861	2.704313	-	849	no	_	_
	PCB Recovery Standard		11.00	426945	yes	1000001	2.704010		1706	110		
200	PCB 52L	302	15.07	260006	0.77	599333	2.672315		1674	no		
200	PCB Recovery Standard		15.05	339327	yes	033333	2.012313	-	3470	110	-	-
204	PCB 101L	338	19.38	350857	1.62	566879	2.783092		8474			
201	PCB Recovery Standard			216022		500019	2.763032	-		no	-	-
			19.36		yes				8058			
202	PCB 138L	372	26.10	333029	1.27	596260	2.871612	-	7352	no	-	-
	PCB Recovery Standard		26.07	263231	yes				3404			
203	PCB 194L	440	38.65	233792	0.92	486933	2.603909	-	2467	no	-	
	PCB Recovery Standard	442	38.59	253141	Vee				2108			

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Quantify Sample Report MassLynx 4.0 SP1 Page 24 of 92 Acquired Date Dataset: C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld Last Altered: June 12, 2017 4:06:03 PM Eastern Daylight Time Printed: June 13, 2017 5:47:14 AM Eastern Daylight Time Description: EIY572-01R, 5x **Vial: 11** Date: 10-Jun-2017 Time: 03:02:53 Instrument: **Total MoCB F1** M1170609B11 Smooth(SG,3x1) F1:Voltage SIR,EI+ EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 188.0393 10.01 4.421e+003 100 9.91 8.83 9.49 %-10.42 10.28 10.11 9.10 9.17 9.33 9.85 8.73 9.57 10.17 8.95 🕁 min 8.80 8.60 9.00 9.20 9.40 9.60 9.80 10.00 10.20 10.40 Total MoCB F1 M1170609B11 Smooth(SG,3x1) F1:Voltage SIR,EI+ EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 9.99 190,0363 2566 5.527e+004 100 % 9.68 10.20 9.73 8.82 9.11 0 min 8.60 8.80 9.00 9.20 9.40 9.60 9.80 10,00 10.20 10.40 Total MoCB labeled F1 M1170609B11 Smooth(SG,3x1) PCB 3L F1:Voltage SIR,EI+ EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 10.00 200.0795 61021 1.269e+006 100 PCB 1L 8.82 56070 % ⊤⊤ min 8.60 8,80 9.00 9.20 9.40 9.60 9.80 10.00 10.20 10.40 Total MoCB labeled F1 M1170609B11 Smooth(SG,3x1) PCB 3L F1:Voltage SIR,EI+ EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 10.00 202.076 5.002e+005 PCB 1L 17807 100

9.32

4154

9.40

9.10

3706

9.20

9.00

9.58

6029

9.60

9.80

10.00

8.58

8.60

8.82 15984

8.80

10.40

10.20

─ min

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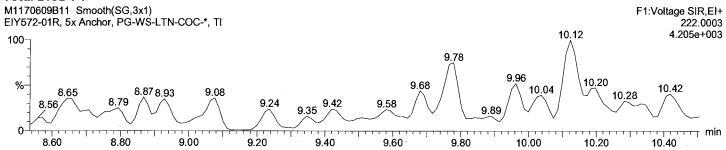
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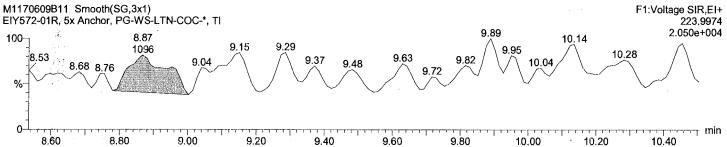
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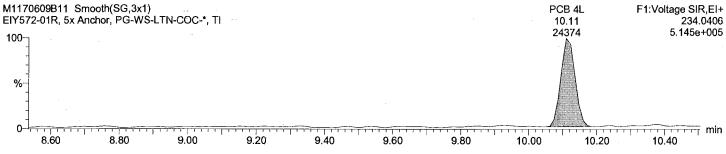
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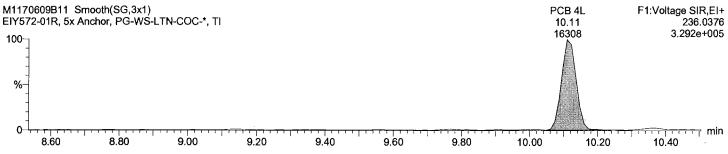
Total DiCB F1



Total DiCB labeled F1



Total DiCB labeled F1



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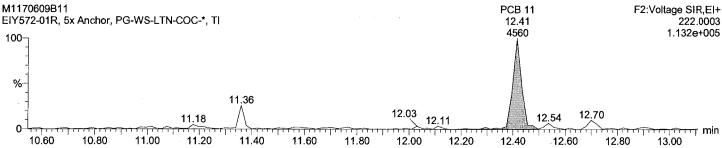
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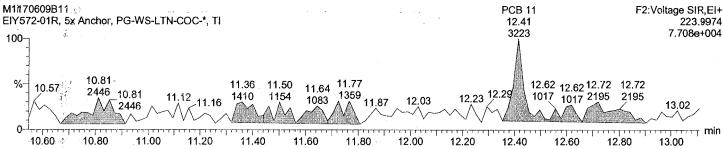
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Date: 10-Jun-2017 Time: 03:02:53 Instrument:

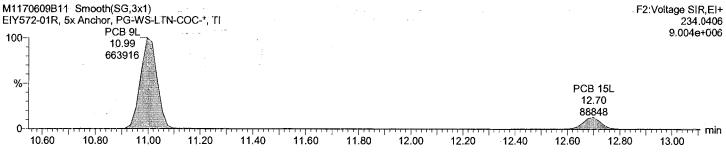




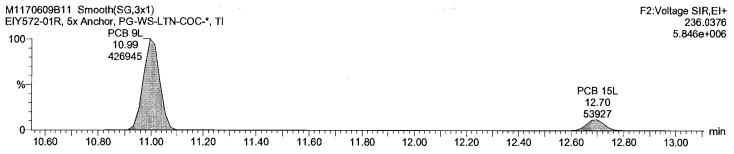
Total DiCB F2



Total DiCB labeled F2



Total DiCB labeled F2



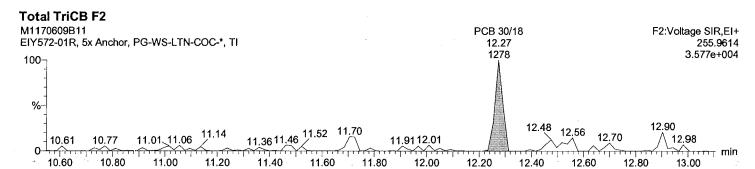
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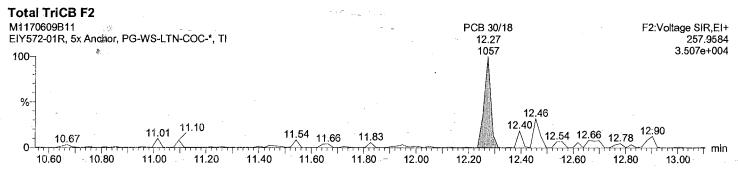
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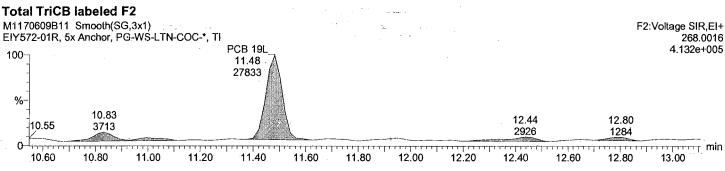
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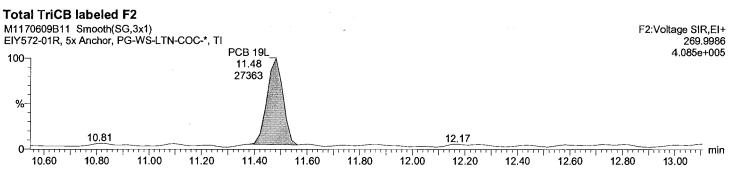
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Date: 10-Jun-2017 Time: 03:02:53 Instrument:









Acquired Date

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C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

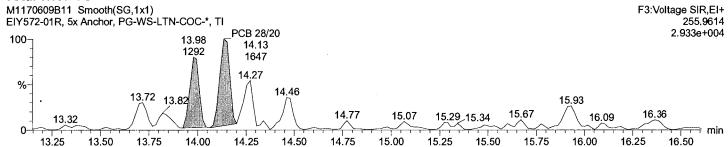
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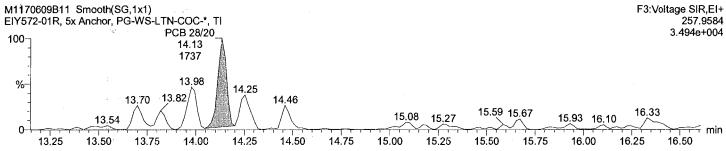
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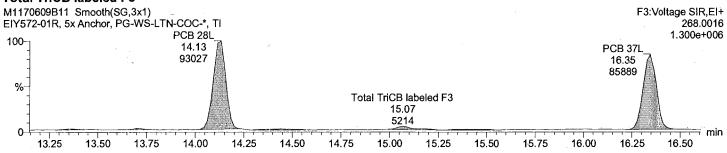
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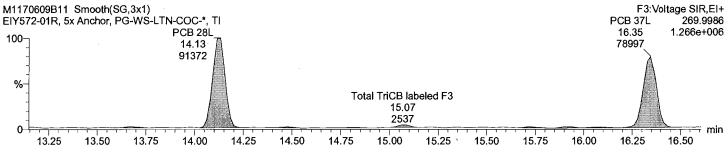


Total TriCB F3



Total TriCB labeled F3





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June 12, 2017 4:06:03 PM Eastern Daylight Time

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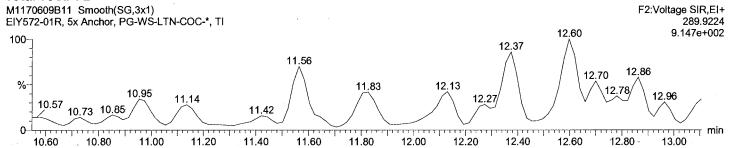
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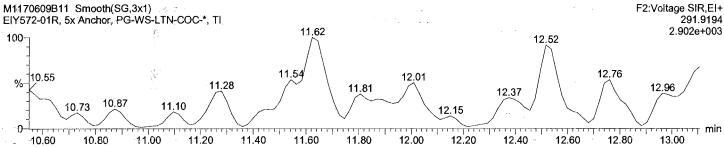
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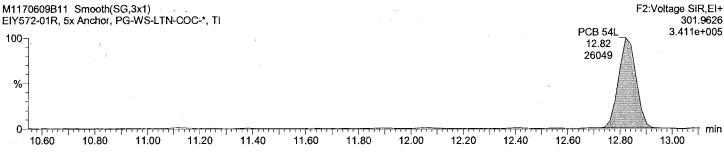
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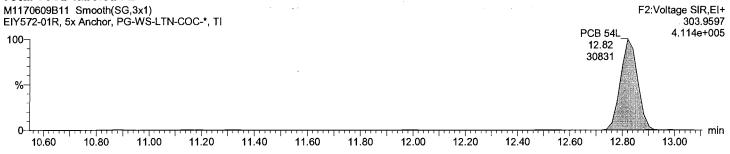


Total TeCB F2



Total TeCB labeled F2





Acquired Date

Dataset:

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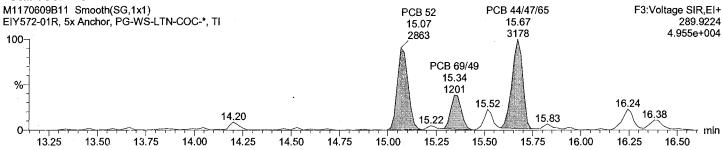
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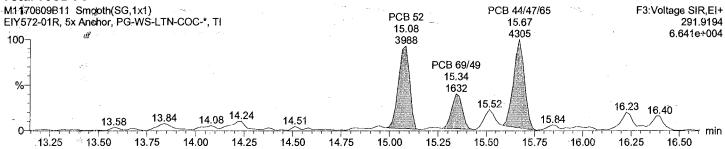
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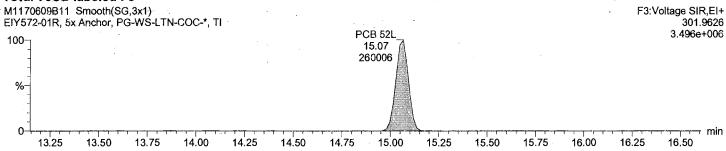
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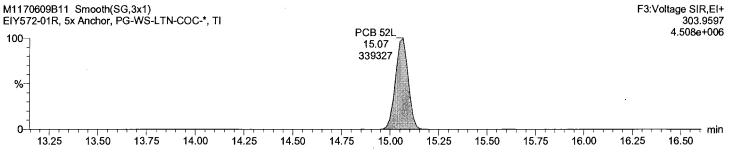






Total TeCB labeled F3





Acquired Date

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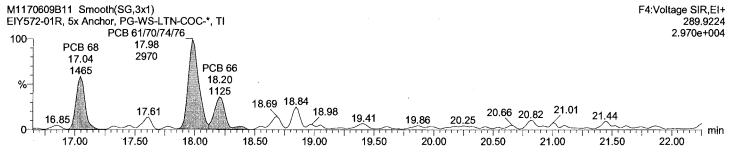
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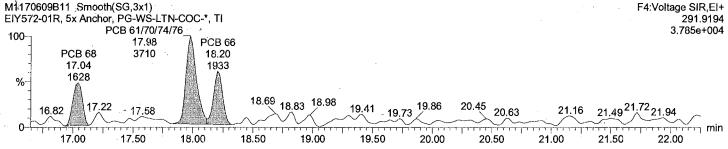
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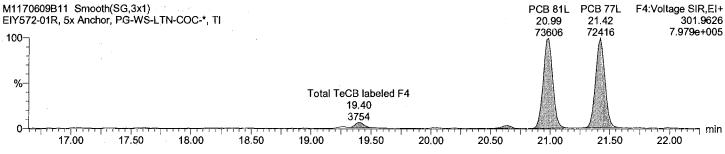
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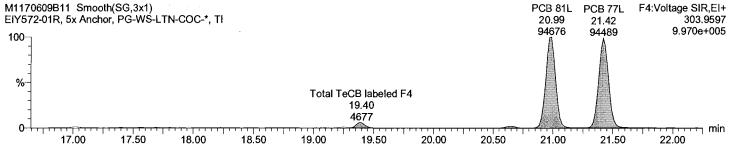


Total TeCB F4



Total TeCB labeled F4





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Dataset:

Acquired Date

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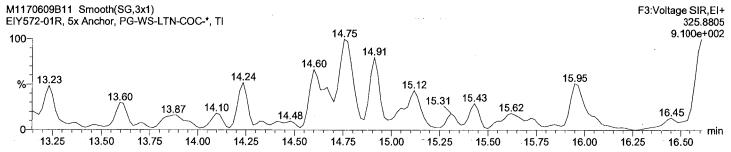
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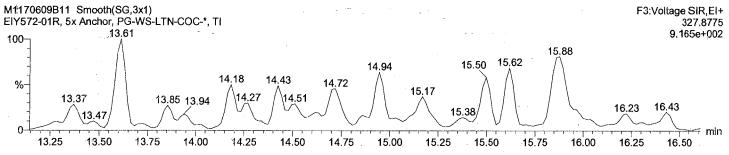
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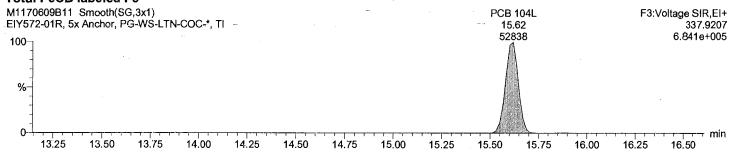
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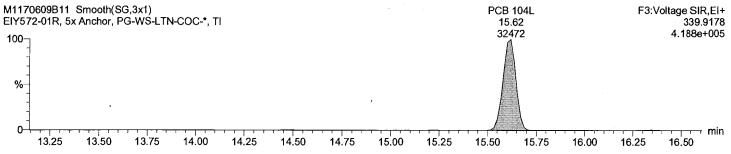


Total PeCB F3



Total PeCB labeled F3





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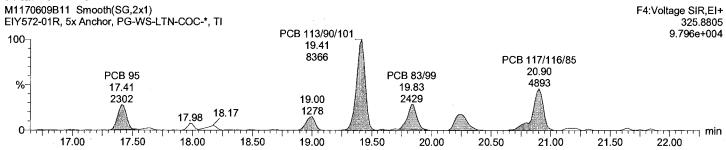
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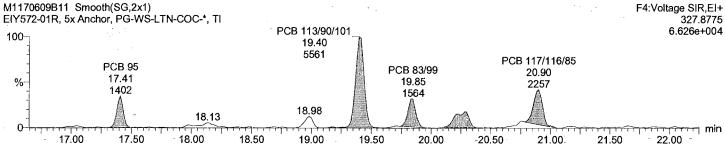
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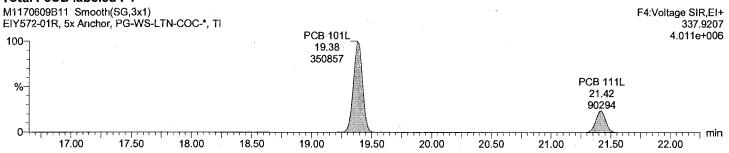
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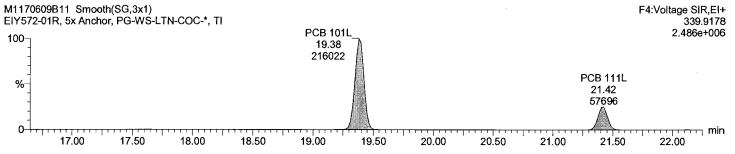


Total PeCB F4



Total PeCB labeled F4





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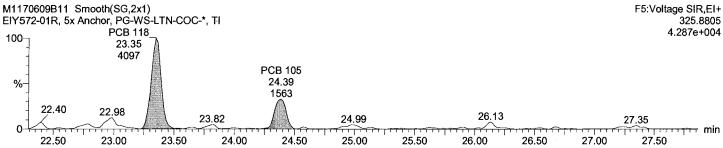
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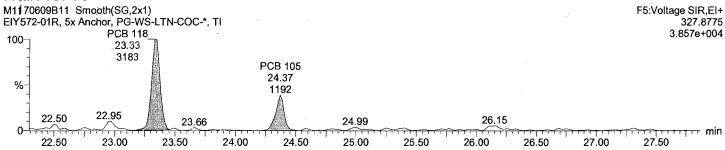
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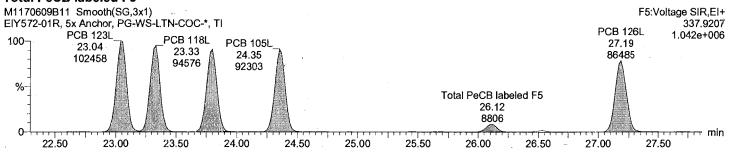
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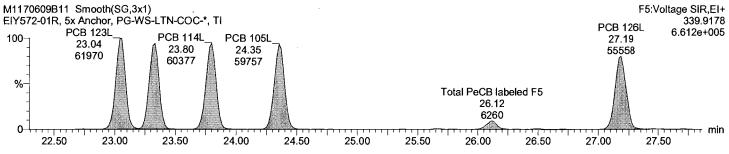


Total PeCB F5



Total PeCB labeled F5





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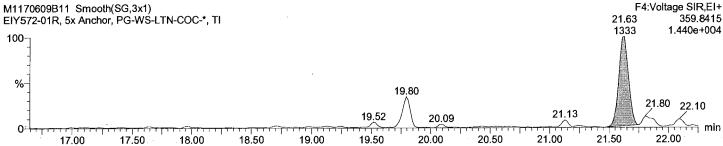
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Vial: 11

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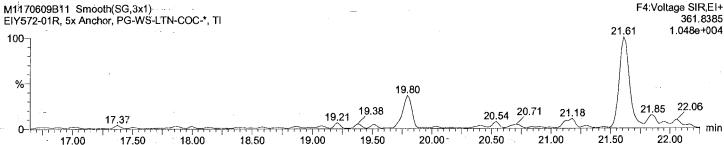
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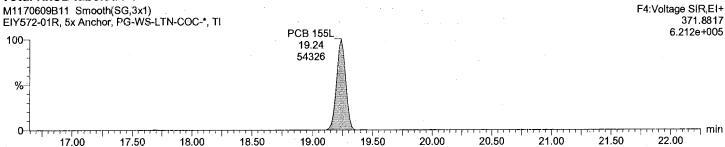
Total HxCB F4

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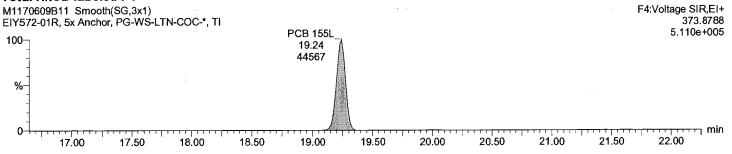
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Total HxCB labeled F4



Total HxCB labeled F4



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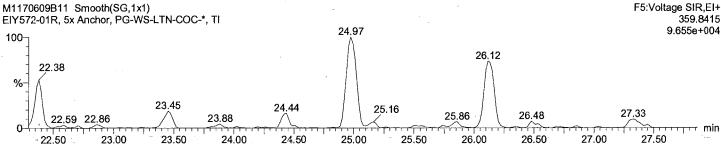
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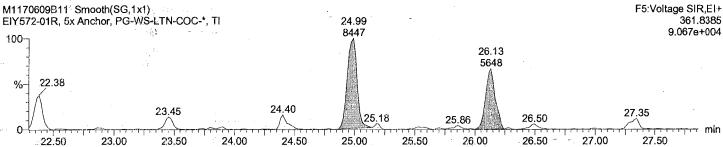
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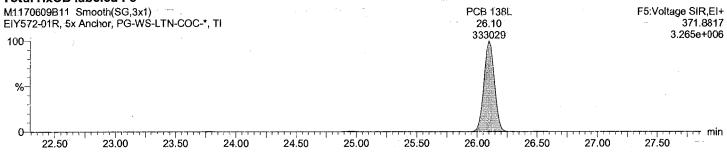




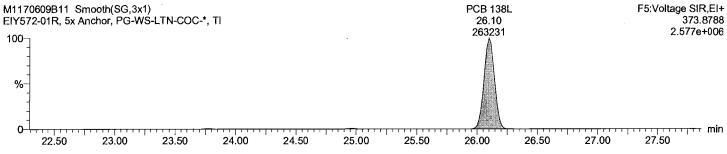








Total HxCB labeled F5



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Dataset:

Acquired Date

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Last Altered:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

30.00

30.50

29.50

Description: EIY572-01R, 5x

Vial: 11

Printed:

Date: 10-Jun-2017 Time: 03:02:53 Instrument:

Total HxCB F6

M1170609B11 Smooth(SG,3x1) F6:Voltage SIR,EI+ EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 359.8415 7.162e+003 30.19 100-% 29.01 28.01 31.62 32.96 34.65 28.67 30.83 33.41 29.77 31.23 31.87 34.27 TIFF min

31.50

31.00

32.00

32.50

33.00

33.50

34.00

34.50

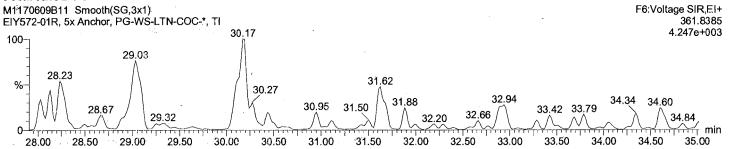
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Total HxCB F6

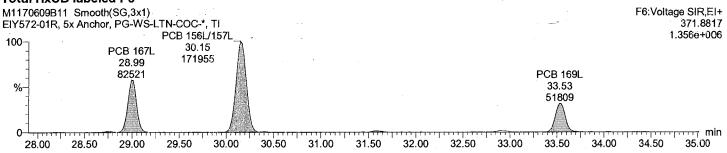
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28.50

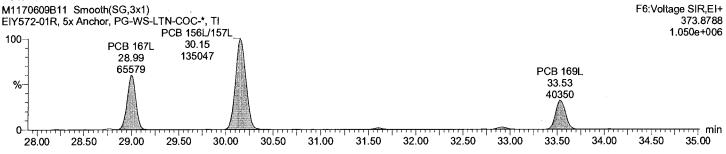
29.00



Total HxCB labeled F6



Total HxCB labeled F6



F5:Voltage SIR,EI+

Dataset:

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June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

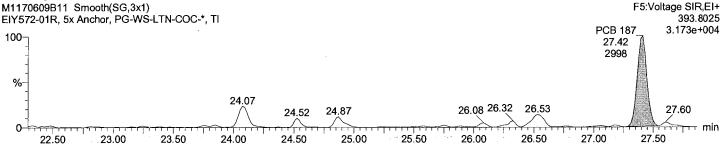
Description: EIY572-01R, 5x

Vial: 11

Date: 10-Jun-2017 Time: 03:02:53 Instrument:

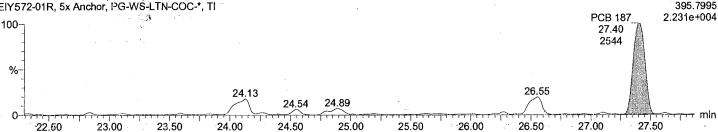
Total HpCB F5

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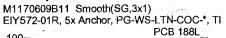


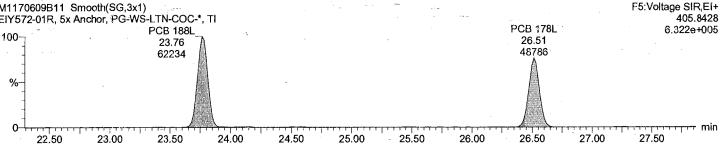
Total HpCB F5

M1170609B11 Smooth(SG,3x1) ElY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI

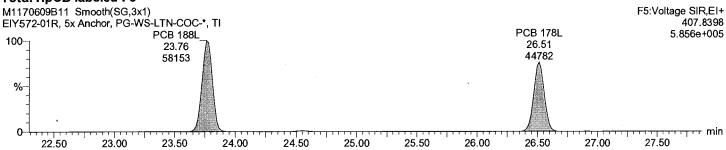


Total HpCB labeled F5





Total HpCB labeled F5



Acquired Date

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June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

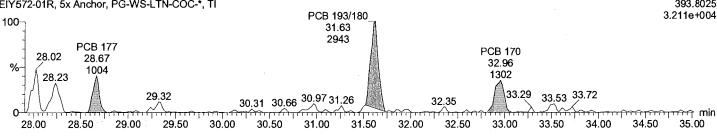
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Vial: 11

Date: 10-Jun-2017 Time: 03:02:53 Instrument:

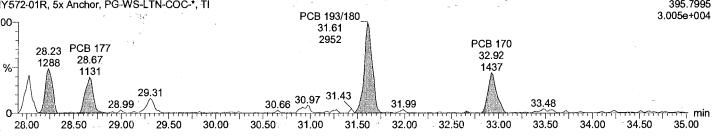


M1170609B11 Smooth(SG,1x1) EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI F6:Voltage SIR,EI+ 393.8025



Total HpCB F6

M1170609B11 Smooth(SG,1x1) EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI F6:Voltage SIR,EI+ 395.7995



Total HpCB labeled F6

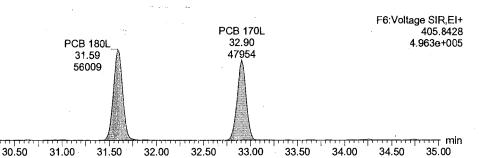
M1170609B11 Smooth(SG.3x1) EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 100

> Total HpCB labeled F6 28.77 1419

> > 29.00

30.00

29.50



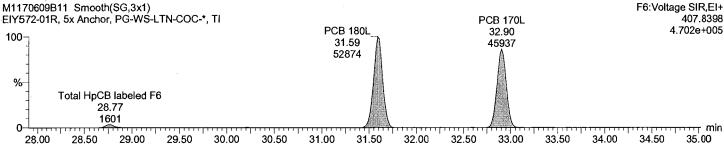
Total HpCB labeled F6

28.50

%

28,00

EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI



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Dataset:

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Last Altered:

Acquired Date

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY572-01R, 5x

36.0

37.0

38.0

39.0

Vial: 11

Printed:

Date: 10-Jun-2017 Time: 03:02:53 Instrument:



M1170609B11 Smooth(SG,3x1) F7:Voltage SIR,EI+ EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 393.8025 44,38 2.180e+003 100 43.80 44.85 45.70,45.83 40.50 44 36.33 38.34 41,21_41.39 45.52 38.69 37.47 39.79_39.97 35.82 % 35.46 42.75 43.64 41.88 42.15 36.89 45.96 0 n min

41.0

43.0

42.0

44.0

45.0

46.0

40.0

Total HpCB F7

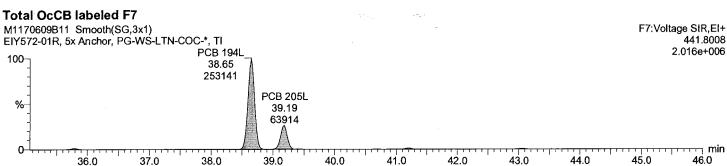
M1170609B11 Smooth(SG,3x1) F7:Voltage SIR,EI+ EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 395.7996 2.806e+003 38.67 100 44.31 45.87 36.33 40.39 40.88 37.58 35.82 39.23 39.56 40.03 40.99 42.89 35.35 43.49 45.67 37.74 42.20 41.53 44.98 min 36.0 37.0 38.0 39.0 40.0 41.0 42.0 43.0 44.0 45.0 46.0

Total HpCB labeled F7

F7:Voltage SIR,EI+ M1170609B11 Smooth(SG,3x1) 405.8428 EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 6.699e+005 **PCB 189L** 100 36.29 83626 % Total HpCB labeled F7 38.65 13700 0 - min 43.0 44.0 36.0 37.0 39.0 40.0 41.0 42.0 45.0 46.0 38.0

Total HpCB labeled F7

F7:Voltage SIR,EI+ M1170609B11 Smooth(SG,3x1) EIY572-01R, 5x Anchor, PG-WS-LTN-COC-*, TI 407.8398 6.381e+005 **PCB 189L** 100 36.29 80714 % Total HpCB labeled F7 38.65 13654 min 🕝 37.0 40.0 41.0 42.0 43.0 44.0 45.0 46.0 36.0 38.0 39.0



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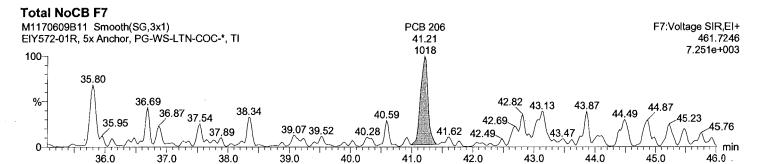
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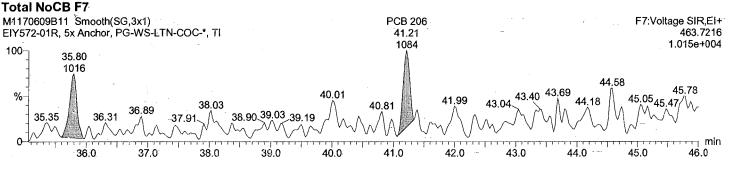
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

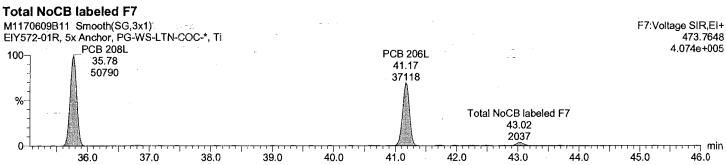
Description: EIY572-01R, 5x

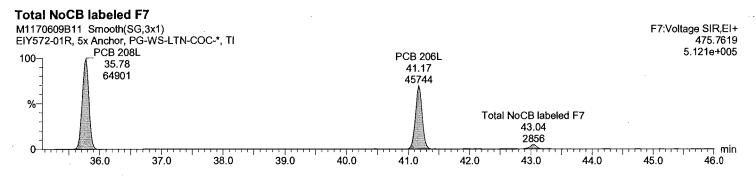
Vial: 11

Date: 10-Jun-2017 Time: 03:02:53 Instrument:









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Last Altered: Printed:

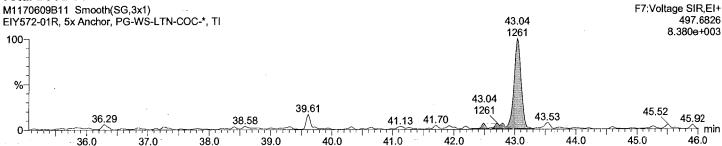
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Description: EIY572-01R, 5x

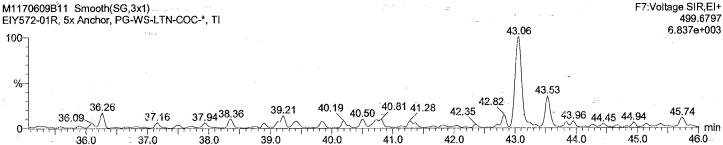
Vial: 11

Date: 10-Jun-2017 Time: 03:02:53 Instrument:

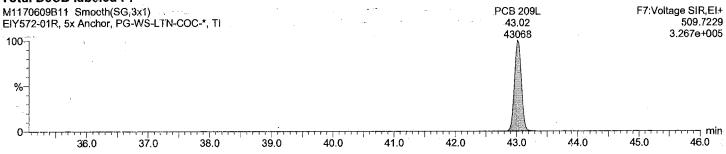


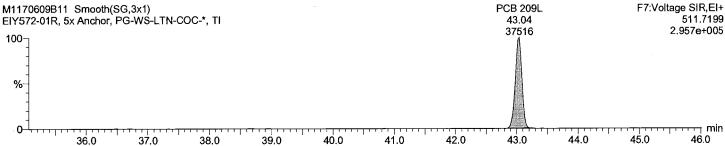


Total DeCB F7



Total DeCB labeled F7





20.00

20.50

19.50

17.00

17.50

18.00

18.50

19.00

%

21.50

21.00

🗂 min

22.00

23.50

23.00

24.00

Acquired Date

Dataset:

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Last Altered: Printed:

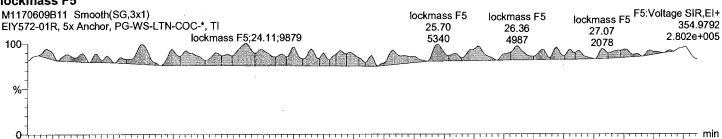
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY572-01R, 5x

Vial: 11

Date: 10-Jun-2017 Time: 03:02:53 Instrument:





25.00

25,50

26.00

26.50

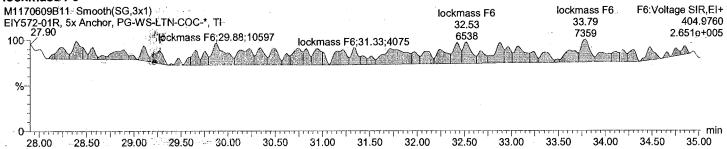
27.00

27,50

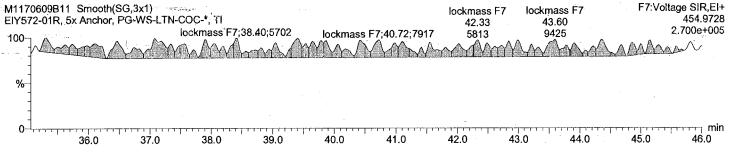
24.50



22.50



lockmass F7



Filename M1170609B12 Acquired 10/06/2017 3:53

Cali File PCB209_M1170609B

Sample ID EIY574-01R, 5x Comments Instrument File Ultima 1 Sample Size 10.016

Dil Fac 1.00

5X

	Name 1 PCB 1		mass 188	RT NotFnd	Area *	ratio	Tot Area	ng/g	Code	DL 0.001	S/N	Mod no	nf 1.053	Rec
	2 PCB 2	MoCB	190 188	8.83 NotFnd	•	no *	- *			0.001		no	1.198	
	3 PCB 3	MoCB	190 188	9.92 NotFnd	•	no •				0.001		no	1.055	_
	4 PCB 4	МоСВ		10.01 NotFnd		no *				0.004		no	1.191	
	5 PCB 10	DICB		10.12 NotFnd	*	no *								
		DICB	224	10.21	:	no				0.003		no	1.156	-
	6 PCB 9	DICB		NotFnd 11.01	•	no				0.005		no	1,544	-
	7 PCB 7	DICB	222 224	NotFnd 11.09	:	no	•			0.005		no	1.399	-
	8 PCB 6	DICB	222 224	NotFnd 11.19	:	no	•			0.005		no	1.424	-
	9 PCB 5	DICB	222	NotFnd 11.31	:	no	•			0.005		no	1.462	-
	10 PCB 8	DICB	222	NotFnd 11.37	:	*	*			0.005		no	1.443	-
	11 PCB 14		222	NotFnd	:	no *	*			0.005		no	1.506	-
	12 PCB 11	DICB	222	12.05 12.41	2809	ло 0.89	5974	0.010314		0.005	36	по	1.42	-
	13 PCB 13/12	DiCB	224 222	12.42 NotFnd	3168	no *	•			0.005	4	no	1.443	-
	14 PCB 15	DICB	224 222	12.56 NotFnd	:	no •				0.006		no	0.956	
	15 PCB 19	DICB	224 256	12.70 NotFnd		no •				0.004		no	1.06	
ŀ	16 PCB 30/18	TrlCB		11.48 NotFnd	*	no *								
		TriCB	258	12.27		no				0.002		no	1.033	-
	17 PCB 17	TriCB		NotFnd 12.48		no				0.003		no	0.838	-
	18 PCB 27	TrlCB	256 258	NotFnd 12.56	•	no	•			0.002		no	1.164	-
	19 PCB 24	TriCB	256 258	NotFnd 12.61	•	no	*			0.002		no	1.35	-
	20 PCB 16	TriCB	256 258	NotFnd 12.69	•	no no	•			0.004		no	0.606	-
	21 PCB 32		256	NotFnd 12.90	*	no	*			0.002		no	1.334	
	22 PCB 34		256	NotFnd	•	•	•			0		no	1.427	-
	23 PCB 23		256	13,46 NotFnd	•	no •	•			0		no	1.32	-
	24 PCB 26/29		256	13.56 NotFnd	•	no •	*			0		no	1.443	-
	25 PCB 25		256	13.72 NotFnd	:	no *				0		no	1.389	-
	26 PCB 31	TriCB	258 256	13.85 13.98	1312	no 1	2630	0.003382		0	40	по	1.527	_
	27 PCB 28/20	TriCB	258 256	14.01 14.13	1318 1633	yes 1.3	2888	0.003935		0	34 51	по	1.441	_
	28 PCB 21/33	TriCB		14.16 NotFnd	1255	no *				0	38	no	1.391	
	29 PCB 22	TriCB		14.27 NotFnd	:	ho								-
		TriCB :	258	14.47	:	no				0		no	1.357	-
	30 PCB 36	TriCB :		NotFnd 15.30	•	no				0		no	1.632	•
	31 PCB 39	TriCB :		NotFnd 15.50	:	по	•			0		no	1.448	-
	32 PCB 38	TrlCB :	256 258	NotFnd 15.87	:	no	•			0		no	1.474	-
	33 PCB 35	TrlCB :	256 258	NotFnd 16.10	:	no no	•			0		no	1.4	-
	34 PCB 37	TriCB :	256 258	NotFnd 16.36	:	* no	•			0		uo	0.951	-
	35 PCB 54		290	NotFnd 12,82	:	no	•			0.001		по	1.071	-
	36 PCB 53/50	:	290	NotFnd	:	•	•			0.001		no	0.861	-
	37 PCB 45/51		290	13.86 NotFnd	•	no •	•			0.001		no	0.832	_
	38 PCB 46	TCB :	290	14.21 NotFnd	÷	no •				0.002		no	0.718	
	39 PCB 52		290	14.35 15.0 7	2154	no 0.84	4709	0.007786		0.001	38	no	0.961	-
	40 PCB 73	TCB 2	292 290	15.05 NotFnd	2556	yes •				0.001	26	no	1.012	
	41 PCB 43	TCB 2		15.14 NotFnd		no *				0.001		no	0.787	
	42 PCB 69/49	TCB 2		15,21 15,34	1393	no 0.79	3440	0.005347			26			
		TCB 2	292	15.34	1755	0.79 yes	3148	0.005247		0.001	26 16	no	0.953	-
	43 PCB 48	TCB 2		NotFnd 15.50		no	-			0.001		no	0.848	-
	44 PCB 44/47/65	TCB 2		15.67 15.64	2748 4184	0.66 yes	6932	0.012012		0.001	44 34	no	0.917	-
	45 PCB 59/62/75	2	290	NotFnd	•	•	•			0.001		no	1.12	-

46 PCB 42	TCB	292 290	15.84 NotFnd	:	no •				0.001		no	0.728	
	TCB.	292	15.94	:	no								
47 PCB 40/41/71	TCB	290 292	NotFnd 16.23	•	no				0.001		no	0.85	-
48 PCB 64	TCB	290	NotFnd 16.37	*	no	*			0.001		no	1.079	-
49 PCB 72		290	NotFnd	•	*	•			0.001		no	1.426	-
50 PCB 68	TCB :	292 290	16.90 NotFnd	:	no *	•			0.001		no	1.39	
64 DCD 67	TCB :		17.09		no								
51 PCB 57	TCB :		NotFnd 17.36	*	no				0.001		no	1.359	-
52 PCB 58	тсв :	290 292	NotFnd 17.51		no	*			0.001		no	1.206	-
53 PCB 67	:	290	NotFnd	*	•	•			0.001		no	1.485	-
54 PCB 63	TCB :	292 290	17.59 NotFnd	:	no *				0.001		no	1.419	-
55 PCB 61/70/74/76	TCB :		17.76	3292	no 0.74	7057	0.009588			00			
	TCB 2	292	17 .98 18.01	4665	0.71 yes	7957			0.001	36 23	no	1.318	•
56 PCB 66	TCB :	290 292	18.20 18.24	1972 2375	0.83 yes	4347	0.004986		0.001	33 15	no	1.384	-
57 PCB 55		290	NotFnd		*	*			0.001		no	1.248	-
58 PCB 56	TCB 2	292 290	18.37 NotFnd		no •				0.001		no	1.286	2
59 PCB 60	TCB 2	292 290	18.70 NotFnd	*	no				0.001		no	1.277	
	TCB 2	292	16.87	*	no								-
60 PCB 80	TCB 2	290 292	NotFnd 19.10	:	no	•			0.001		no	1.5	-
61 PCB 79		290	NotFnd	:	•	•			0.001		no	1.544	-
62 PCB 78		290	20.23 NotFnd	. •	no •	•			0.001		no	1.394	-
63 PCB 81	TCB 2	292 290	20.68 NotFnd	:	no •				0.001		no	1.02	_
	TCB 2	292	21.01	•	no								
64 PCB 77	TCB 2	290 292	NotFnd 21.44	•	no	•			0.001		no	1.016	-
65 PCB 104	PeCB 3	326	NotFnd 15.64		*	* .			0		no	1.194	-
66 PCB 96	3	326	NotFnd	•	no *	•			0		no	0.819	-
67 PCB 103	PeCB 3	328 326	15.85 NotFnd	:	no •	*			0.001		ho	0.834	
	PeCB 3	328	16.98	:	no •								
68 PCB 94	PeCB 3		NotFnd 17.12	•	no				0.001		ho	0.668	•
69 PCB 95	PeCB 3	326 328	NotFnd 17.40	*	no .	•			0.001		no	0.789	-
70 PCB 100/93/102/9	98 3	326	NotFnd	•	* .	**			0.001		no	0.724	-
71 PCB 88/91	PeCB 3	328 326	17.54 NotFnd	*	no *				0.001		no	0.739	-
72 PCB 84	PeCB 3	328 326	17.95 NotFnd		no •						DO		
	PeCB 3	328	18.12	*	no				0.001		no	0.66	•
73 PCB 89	PeCB 3	326 328	NotFnd 18.45	:	no	•			0.001		no	0.717	-
74 PCB 121	3	26	NotFnd	•	*	•			0		no	0.972	-
75 PCB 92	PeCB 3	26	18.70 NotFnd	•	no •				0.001		no	0.75	
76 PCB 113/90/101	PeCB 3	28 26	18.96 19.42	7674	no 1.82	11895	0.020441		0.001	148	no	0.856	
	PeCB 3	28	19.38	4221	no			,		102			
77 PCB 83/99	PeCB 3	26 28	19.85 19.84	5205 3256	1.6 yes	8461	0.016252		0.001	96 73	no	0.765	•
78 PCB 112	PeCB 3	26	NotFnd 19.92	•	no	•			0.001		no	0.907	-
79 PCB 109/119/86/9	7/125/13	26	NotFnd	•	•	٠			0.001		no	0.874	-
80 PCB 117/116/85	PeCB 3	28 26	20.21 20.90	5064	no 1.25	9127	0.014719		0.001	105	no	0.912	
81 PCB 110/115	PeCB 3		20.76 NotFnd	4064	no •				0.001	99		0.93	
	PeCB 3	28	20.88	•	no	-					no		-
82 PCB 82	PeCB 3	26 28	NotFnd 21.15	:	no no	•			0.001		no	0.681	•
83 PCB 111	3	26	NotFnd	•	•	٠			0		no	1.022	-
84 PCB 120	PeCB 3	26	21.45 NotFnd	•	no *	*			0		no	1.091	_
85 PCB 108/124	PeCB 3	28 26	21.81 NotFnd	•	no *				0		no	1.201	
	PeCB 3	28	22.78	•	no *								
86 PCB 107	PeCB 3	26 28	NotFnd 22.98	:	no	•			0		no	1.375	-
87 PCB 123		26	NotFnd 23.08	:	no	•			0		no	0.921	-
68 PCB 106	3.	26	NotFnd	*	*	•			0		no	1.282	-
89 PCB 118	PeCB 3	28 2 6	23.19 23.35	• 9610	no 1.77	15042	0.01895		0	345	no	1.028	
	PeCB 3	28	23.33	5433	yes		,			70			
90 PCB 122	PeCB 3	26 28	NotFnd 23.63	:	no	•			0		no	1.158	-
91 PCB 114	PeCB 3	26 28	NotFnd 23.82	:	• no	•			0		no	1.023	-
92 PCB 105	3.	26	24.39	3579	1.58	5848	0.007712		0	134	no	1.024	-
93 PCB 127	PeCB 3:	28 26	24,38 NotFnd	2269	yes +				0	27	no	1.256	-
94 PCB 126	PeCB 3		25.69 NotFnd	:	no *				0.001				
U-1 1 0D 120	PeCB 3		27.22	•	no				J,001		no	1.093	-

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95 PCB 155		360	NotFnd					0.001		no	1.103	
96 PCB 152	HxCE		19.26 NotFnd	:	no •			0.001		no	0.849	_
	HxCE	362	19.40	:	no							
97 PCB 150	HxCB		NotFnd 19.53	•	no	-		0.001		ho	0.77	-
98 PCB 136	HxCB	360 362	NotFnd 19.78	:	no	•		0.001		no	0.816	-
99 PCB 145	HxCB	360 362	NotFnd 20.03	:	no no	•		0.001		no	0.755	-
100 PCB 148	HxCB	360	NotFnd 21.13	:	ho	•		0.001		no	0.617	-
101 PCB 151/135		360	21.61	1846	1.67	2951	0.008398	0.001	89	no	0.6	-
102 PCB 154	HxCB	360	21.61 NotFnd	1105	no •	•		0.001	10	no	0.691	-
103 PCB 144	HxCB	362 360	21.82 NotFnd	•	no •			0.001		no	0.618	
104 PCB 147/149	HxCB	362 360	22.07 NotFnd	*	no •			0.002		no	0.809	_
105 PCB 134/143	HxCB		22.36 NotFnd	•	no *			0.002		по	0.689	_
	HxCB	362	22.61	•	no							
106 PCB 139/140	НхСВ		NotFnd 22.88	•	no			0.002		по	0.804	-
107 PCB 131	HxCB	360 362	NotFnd 23.05		no	•		0.002		no	0.649	-
108 PCB 142	HxCB	360 362	NotFnd 23,19		no	•		0.002		no	0.718	-
109 PCB 132	НхСВ	360	23.45 23.44	1924 1262	1.52 no	3186	0.007769	0.002	21 15	no	0.7	-
110 PCB 133		360	NotFnd	1202	•	*		0.002	13	no	0.786	-
111 PCB 165	HxCB	360	23.86 NotFnd	•	no *	٠		0.001		no	0.992	-
112 PCB 146	HxCB	362 360	24.21 NotFnd	:	no ∗			0.001		no	0.895	-
113 PCB 161	HxCB	362 360	24.41 NotFnd	*	no *	*		0.001		no	1.015	_
114 PCB 153/168	HxCB		24.53 NotFnd		no *			0.001		no	0.993	
	НхСВ	362	24.99	*	no							-
115 PCB 141	НхСВ		NotFnd 25.14	•	no	•		0.002		no	0.784	•
116 PCB 130	НхСВ	360 362	NotFnd 25.51	•	no	•		0.002		no	0.716	•
117 PCB 137	HxCB	360 362	NotFnd 25.75	:	no	•		0.002		no	0.675	-
118 PCB 164	НхСВ	360	NotFnd 25.83	:	no	*		0.001		no	1.109	-
119 PCB 136/163/129		360	NotFnd	•	*	•		0.002		no	0.847	-
120 PCB 160	HxCB	360	26.15 NotFnd	•	no •	*		0.001		по	0.943	-
120 PCB 160 121 PCB 158	HxCB	360		•	no no	•		0.001 0.001		no no	0.943 1.103	-
		360 362 360	NotFnd 26.30 NotFnd 26.47	1998	no • no	* •	0.006266	0.001	24			-
121 PCB 158 122 PCB 128/166	НхСВ	360 362 360 362 360 362	NotFnd 26.30 NotFnd 26.47 27.33 27.31	1998 1432	uo •	3430	0.006266	0.001 0.001	24 9	no no	1.103 0.934	
121 PCB 158 122 PCB 128/166 123 PCB 159	HxCB HxCB	360 362 360 362 360 362 360 362	NotFnd 26.30 NotFnd 26.47 27.33 27.31 NotFnd 28.27		no no no 1.4 yes	3430 •	0.006266	0.001 0.001 0		no no no	1.103 0.934 1.254	-
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162	HxCB HxCB	360 362 360 362 360 362 360 362 360 362	NotFnd 26.30 NotFnd 26.47 27.33 27.31 NotFnd 28.27 NotFnd 28.53		no no no 1.4 yes	3430	0.006266	0.001 0.001 0		no no no	1.103 0.934 1.254 1.204	-
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167	HxCB HxCB HxCB	360 362 360 362 360 362 360 362 360 362 360 362	NotFnd 26.30 NotFnd 26.47 27.33 27.31 NotFnd 28.27 NotFnd 28.53 NotFnd 29.02		no 1.4 yes no *	3430	0.006266	0.001 0.001 0 0		no no no	1.103 0.934 1.254 1.204 1.103	-
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162	HxCB HxCB HxCB HxCB	360 362 360 362 360 362 360 362 360 362 360 362 360	NotFnd 26.30 NotFnd 26.47 27.33 27.31 NotFnd 28.27 NotFnd 28.53 NotFnd		no 1.4 yes no * no	3430	0.006266	0.001 0.001 0		no no no	1.103 0.934 1.254 1.204	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167	HxCB HxCB HxCB HxCB HxCB HxCB	360 362 360 362 360 362 360 362 360 362 360 362 360	NotFind 26.30 NotFind 26.47 27.33 27.31 NotFind 28.27 NotFind 28.53 NotFind 29.02 NotFind 30.18 NotFind		no 1.4 yes no no no the	3430	0.006266	0.001 0.001 0 0		no no no no	1.103 0.934 1.254 1.204 1.103	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157	HxCB HxCB HxCB HxCB HxCB HxCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362	NotFind 26.30 NotFind 26.47 27.33 27.31 NotFind 28.27 NotFind 28.53 NotFind 29.02 NotFind 30.18 NotFind 30.18 NotFind 30.56 NotFind		no 1.4 yes no no no	3430	0.006266	0.001 0.001 0 0 0		no no no no no	1.103 0.934 1.254 1.204 1.103	- · · · · · · · · · · · · · · · · · · ·
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169	HXCB HXCB HXCB HXCB HXCB HXCB HXCB HXCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 394	NotFind 26.30 NotFind 26.47 27.33 NotFind 28.27 NotFind 28.53 NotFind 29.02 NotFind 30.18 NotFind 33.56 NotFind 23.79 NotFind 23.79 NotFind		no	3430	0.006266	0.001 0.001 0 0 0 0		no no no no no	1.103 0.934 1.254 1.204 1.103 1.047	- · · · · · · · · · · · · · · · · · · ·
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188	HxCB HxCB HxCB HxCB HxCB HxCB HxCB HxCB	360 362 362 362 362 362 362 362 362 362 362	NotFind 26.30 NotFind 26.47 27.33 27.33 27.31 NotFind 28.53 NotFind 28.53 NotFind 29.02 NotFind 33.56 NotFind 33.56 NotFind 23.79 NotFind 24.07 NotFind NotFind 27.70 NotFind NotFind 27.70 NotFind NotFind 27.70 NotFind NotFind 27.70 NotFind		no 1.4 yes no no no no no no no no no		0.006266	0.001 0.001 0 0 0 0 0 0		no	1.103 0.934 1.254 1.204 1.103 1.047 1.04	- · · · · · · · · · · · · · · · · · · ·
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179	HXCB HXCB HXCB HXCB HXCB HXCB HXCB HXCB	360 362 362 362 362 362 362 362 362 362 362	NotFind 26.30 NotFind 26.47 27.33 NotFind 28.27 NotFind 28.53 NotFind 29.02 NotFind 30.18 NotFind 33.79 NotFind 23.79 NotFind 24.07 NotFind 24.07 NotFind 24.07 NotFind 25.40 NotFind 25.40 NotFind 25.40 NotFind 25.40 NotFind 25.40 NotFind 24.07 NotFind 24.07 NotFind 24.07 NotFind 24.07		no 1.4 yes no 1.0 no no no no no no		0.006266	0.001 0.001 0 0 0 0 0 0 0.001		no no no no no no no no no	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184	HxCB HxCB HxCB HxCB HxCB HxCB HxCB HpCB HpCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 394 394 396 394 396 394	NotFind 26.47 27.31 NotFind 28.47 27.33 NotFind 28.53 NotFind 28.53 NotFind 29.02 NotFind 30.16 NotFind 30.16 NotFind 30.70 NotFind 24.07 NotFind 24.07 NotFind 24.45		no 1.4 yes no no no no no no no no no		0.006266	0.001 0.001 0 0 0 0 0 0.001		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186	HxCB HxCB HxCB HxCB HxCB HxCB HxCB HpCB HpCB HpCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 394 396 394 396 394 396 394 396 394 396 394 396	NotFind 26.30 NotFind 26.47 27.33 27.31 NotFind 28.53 NotFind 29.02 NotFind 33.56 NotFind 33.56 NotFind 24.85 NotFind 24.67 NotFind 24.67 NotFind 24.85 NotFind 24.88 NotFind 24.88 NotFind 25.26		no no 1.4 yes no no no no no no no no no		0.006266	0.001 0.001 0 0 0 0 0 0.001 0 0		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 178	HXCB HXCB HXCB HXCB HXCB HXCB HYCB HPCB HPCB HPCB	360 362 362 360 362 360 362 360 362 360 362 360 362 360 362 360 394 396 394 396 394 396 394 396 394 396 394 396 394 396	NotFind 26.30 NotFind 26.47 27.33 NotFind 28.53 NotFind 28.53 NotFind 29.02 NotFind 29.02 NotFind 23.79 NotFind 24.07 NotFind 24.07 NotFind 24.65 NotFind 52.66 NotFind 55.26 NotFind 55.26 NotFind 55.26 NotFind 55.26 NotFind 56.54		no 1.4 yes no		0.006266	0.001 0.001 0 0 0 0 0 0.001		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.777	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 178 134 PCB 175	HXCB HXCB HXCB HXCB HXCB HXCB HYCB HPCB HPCB HPCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 394 396 394 396 394 396 394 396 394 396 394 396 394 396 396 396 396 396 396 396 396 396 396	NotFind 26.47 27.31 NotFind 28.47 27.33 NotFind 28.53 NotFind 29.02 NotFind 30.16 NotFind 30.16 NotFind 34.07 NotFind 24.07 NotFind 24.07 NotFind 25.26 NotFind 25.26 NotFind 27.15 NotF	1432	no 1.4 yes no			0.001 0.001 0 0 0 0 0 0.001 0 0 0		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.77 0.803	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 186 133 PCB 178 134 PCB 175 135 PCB 187	HXCB HXCB HXCB HXCB HXCB HXCB HPCB HPCB HPCB HPCB HPCB HPCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 394 396 394 396 394 396 394 396 394 396 394 396 394 396 394 396 394 396 394 396 394 396 394 396 394 396 396 396 396 396 396 396 396 396 396	NotFind 26.47 27.31 NotFind 28.47 27.33 27.31 NotFind 28.27 NotFind 29.02 NotFind 30.16 NotFind 30.16 NotFind 30.16 NotFind 24.07 NotFind 24.05 NotFind 24.55 NotFind 24.48 NotFind 25.26 NotFind 27.44 27.42 27.37		no no no 1.4 yes no		0.006266	0.001 0.001 0 0 0 0 0.001 0 0 0 0		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.77 0.803 0.814	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 178 134 PCB 175	HXCB HXCB HXCB HXCB HXCB HXCB HPCB HPCB HPCB HPCB HPCB HPCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 394 396 396 396 396 396 396 396 396 396 396	NotFind 26.30 NotFind 26.47 27.31 NotFind 28.53 NotFind 28.53 NotFind 29.02 NotFind 33.56 NotFind 23.79 NotFind 24.88 NotFind 25.26 NotFind 25.26 NotFind 27.14 27.42	1432	no			0.001 0.001 0 0 0 0 0 0.001 0 0 0		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.77 0.803	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 186 133 PCB 178 134 PCB 175 135 PCB 187	HXCB HXCB HXCB HXCB HXCB HXCB HPCB HPCB HPCB HPCB HPCB HPCB	360 362 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 394 396 394 396 394 396 394 396 394 396 394 396	NotFind 26.47 27.31 NotFind 28.47 27.33 27.31 NotFind 28.27 NotFind 29.02 NotFind 30.18 NotFind 30.18 NotFind 30.18 NotFind 24.55 NotFind 24.55 NotFind 24.55 NotFind 27.42 27.42 27.47 NotFind 27.14 27.42 27.37 NotFind 27.59 NotFind 27.59 NotFind 27.15 NotFind 27.17 27.37 NotFind 27.18 27.37 NotFind 27.19 27.37 NotFind 27.59 NotFind 27.5	1432	no 1.4 yes no			0.001 0.001 0 0 0 0 0.001 0 0 0 0		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.77 0.803 0.814	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 178 134 PCB 175 135 PCB 187	HXCB HXCB HXCB HXCB HXCB HXCB HPCB HPCB HPCB HPCB HPCB HPCB HPCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 394 396 396 394 396 396 396 396 396 396 396 396 396 396	NotFind 26.47 27.31 NotFind 28.47 27.33 27.31 NotFind 28.27 NotFind 29.02 NotFind 30.18 NotFind 30.18 NotFind 30.16 NotFind 24.07 NotFind 24.07 NotFind 24.07 NotFind 27.14 27.37 NotFind 27.14 27.37 NotFind 27.14 27.37 NotFind 27.19 NotFind 27.14 27.37 NotFind 27.14 27.37 NotFind 27.19 NotFind 27.14 27.37 NotFind 27.19 NotFind 27.19 NotFind 27.79	1432	no no 1.4 yes no			0.001 0.001 0 0 0 0 0 0.001 0 0 0.001		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.77 0.803 0.814 0.797	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 178 134 PCB 175 135 PCB 187	HXCB HXCB HXCB HXCB HXCB HXCB HPCB HPCB HPCB HPCB HPCB HPCB HPCB HP	360 362 360 360 360 360 360 360 360 360 360 360	NotFind 26.30 NotFind 26.47 27.33 NotFind 28.53 NotFind 28.53 NotFind 29.02 NotFind 29.02 NotFind 33.56 NotFind 24.07 NotFind 24.07 NotFind 24.07 NotFind 24.85 NotFind 27.59 NotFind 27.59 NotFind 27.14 27.37 NotFind 27.159 NotFind 27.59 NotFind 27.99 NotFind 27.59 NotFind 27	1432	no no 1.4 yes no			0.001 0.001 0 0 0 0 0 0.001 0 0 0 0.001		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.777 0.803 0.814 0.797 1.01	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 178 134 PCB 175 135 PCB 187 136 PCB 182 137 PCB 183	HXCB HXCB HXCB HXCB HXCB HXCB HPCB HPCB HPCB HPCB HPCB HPCB HPCB HP	360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 394 396 396 396 394 396 396 396 396 396 396 396 396 396 396	NotFind 26.37 NotFind 28.27.31 NotFind 28.27 NotFind 28.53 NotFind 29.02 NotFind 20.16 NotFind 20.16 NotFind 20.17	1432	no 1.4 yes no			0.001 0.001 0 0 0 0 0 0.001 0 0 0 0 0 0		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.77 0.803 0.814 0.797 1.01 0.813	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 178 134 PCB 175 135 PCB 187 136 PCB 182 137 PCB 183 136 PCB 185 139 PCB 185	HXCB HXCB HXCB HXCB HXCB HXCB HXCB HXCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 394 396 396 396 394 396 396 396 396 396 396 396 396 396 396	NotFind 26.47 27.31 NotFind 28.47 27.33 27.31 NotFind 28.27 NotFind 29.02 NotFind 30.16 NotFind 30.16 NotFind 24.55 NotFind 24.07 NotFind 24.55 NotFind 24.55 NotFind 27.42 27.37 NotFind 27.49 NotFind 27.42 27.37 NotFind 27.49 NotFind 27.42 27.37 NotFind 27.42 27.37 NotFind 27.49 NotFind 27.49 NotFind 27.49 NotFind 27.49 NotFind 27.89 NotFind 28.28 No	1432	no no 1.4 yes no			0.001 0.001 0 0 0 0 0 0.001 0 0 0 0 0 0		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.77 0.803 0.814 0.797 1.01 0.813 0.901	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 178 134 PCB 175 135 PCB 187 136 PCB 182 137 PCB 183 136 PCB 185 139 PCB 174 140 PCB 177 141 PCB 181	HXCB HXCB HXCB HXCB HXCB HXCB HXCB HXCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 360 360 360 360 360 360 360 360 360	NotFind 26.30 NotFind 26.47 27.33 NotFind 28.53 27.31 NotFind 28.53 NotFind 29.02 NotFind 29.02 NotFind 23.79 NotFind 23.79 NotFind 23.79 NotFind 24.07 NotFind 24.07 NotFind 24.07 NotFind 24.55 NotFind 25.26 NotFind 27.59 NotFind 25.26 NotFind 27.59 NotFind 28.08 NotFind 28.08 NotFind 28.08 NotFind 28.08 NotFind 28.08 NotFind 28.08 NotFind 28.09 NotFind 29.09 NotFind 29.00 NotF	1432	no 1.4 yes no			0.001 0.001 0 0 0 0 0 0 0.001 0 0 0 0 0		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.77 0.803 0.814 0.797 1.01 0.813 0.901 0.878 0.887	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 178 134 PCB 175 135 PCB 187 136 PCB 182 137 PCB 183 136 PCB 185 139 PCB 174 140 PCB 177 141 PCB 181	HXCB HXCB HXCB HXCB HXCB HXCB HXCB HXCB	360 362 366 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 394 396 394 396 394 396 394 396 394 396 396 394 396 396 396 394 396 396 396 396 396 396 396 396 396 396	NotFind 26.47 27.31 NotFind 28.52 NotFind 28.53 NotFind 29.02 NotFind 30.16 NotFind 30.16 NotFind 24.07 NotFind 24.07 NotFind 24.55 NotFind 24.55 NotFind 27.59 NotFind 27.59 NotFind 28.58 NotFind 28.58 NotFind 28.68 NotFind 28.68 NotFind 28.68 NotFind 27.59 NotFind 28.68 NotFind 28.68 NotFind 28.68 NotFind 28.68 NotFind 28.69 NotFind 28.69 NotFind 29.06 NotFind 29.06 NotFind 29.29 NotFind 29	1432	no no 1.4 yes no			0.001 0.001 0 0 0 0 0 0.001 0 0 0 0 0 0		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.77 0.803 0.814 0.797 1.01 0.813 0.901 0.876 0.887 0.887	
121 PCB 158 122 PCB 128/166 123 PCB 159 124 PCB 162 125 PCB 167 126 PCB 156/157 127 PCB 169 128 PCB 188 129 PCB 179 130 PCB 184 131 PCB 176 132 PCB 186 133 PCB 178 134 PCB 175 135 PCB 187 136 PCB 182 137 PCB 183 136 PCB 185 139 PCB 174 140 PCB 177 141 PCB 181	HXCB HXCB HXCB HXCB HXCB HXCB HXCB HXCB	360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 362 360 364 396 396 394 396 396 396 396 396 396 396 396 396 396	NotFind 26.47 27.31 NotFind 28.47 27.33 27.31 NotFind 28.27 NotFind 29.02 NotFind 29.02 NotFind 29.02 NotFind 24.07 NotFind 24.07 NotFind 24.07 NotFind 24.07 NotFind 27.14 27.37 NotFind 27.14 27.42 27.37 NotFind 27.14 27.42 27.37 NotFind 27.14 27.42 27.37 NotFind 27.14 27.48 NotFind 27.14 27.49 NotFind 27.19 NotFind 27.19 NotFind 27.19 NotFind 27.19 NotFind 28.08 NotFind 28.08 NotFind 28.08 NotFind 28.08 NotFind 28.08 NotFind 28.08 NotFind 28.24 NotFind 28.08 NotFind 28.09 NotFind 28.09 NotFind 29.06	1432	no 1.4 yes no			0.001 0.001 0 0 0 0 0 0 0.001 0 0 0 0 0		no n	1.103 0.934 1.254 1.204 1.103 1.047 1.04 1.069 1.122 1.054 1.032 0.965 0.77 0.803 0.814 0.797 1.01 0.813 0.901 0.878 0.887	

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	НрСВ :		31.24	*	ho							
145 PCB 193/180	HpCB :	394 396	31.63 31.59	1765 2206	0.8 no	3970	0.006163	0.00	1 24 24	no	1.172	~
146 PCB 191	HpCB :	394 396	NotFnd 31.97	:	* no	•		0.00	1	no	1.186	-
147 PCB 170		394	NotFnd	:	*	•		0.00	1	no	1.171	-
148 PCB 190		394	32.94 NotFnd	•	, •	•		0.00	1	ho	1.165	-
149 PCB 189	HpCB :	396 394	33.50 NotFnd	:	no •	•		0		no	0.922	-
150 PCB 202	HpCB :		36,32 28.79	1006	no 1.12	1902	0.003269	0.00	22	yes	1.031	
	OcCB 4	430	28.78	895	по				7			
151 PCB 201	OcCB	428 430	29.72 29.70	628 532	1.18 no	1160	0.001852	0.00	4	yes	1.078	
152 PCB 204	OcCB 4	428 430	NotFnd 30.39		no			0.00	1	no	1.06	
153 PCB 197		428	30,64 30,62	189 164	1.15	352	0.00056	0.00	1 6 3	yes	1.082	
154 PCB 200		428	30.67	196	0.84	427	0.000724	0.00	7	yes	1.016	
155 PCB 198/199	OcCB 4	430 428	30.74 33.70	232 204 1	yes 0.89	4342	0.009618	0.00	4 2 24	no	0.777	
156 PCB 196	OcCB 4	430 428	33.67 NotFnd	2301	yes •			0.002	14	no	0.819	187021111
	OcCB 4	430	34.41	1000	no	0546	0.007220					
157 PCB 203	Occb 4	128 130	34.64 34.60	1996 1520	1.31 no	3516	0.007338	0.002	8	no	0.825	
158 PCB 195	OcCB 4	128 130	36.04 36.05	738 455	1.62 no	1193	0.002205	0	21 0	yes	0.931	
159 PCB 194	OcCB 4	128	38.72 38.68	193 447	0.43 no	640	0.001145	0	6 0	yes	0.962	
160 PCB 205		128	39.21	92	0.71	223	0.000376	0	4	yes	0.992	
161 PCB 208	OcCB 4	162	39,23 35.80	131 1667	no 1.12	3157	0.005528	0.002	0 2 22	no	1.042	-
162 PCB 207	NoCB 4	164 162	35.81 NotFnd	1490	no *			0.00	8 1	по	1,302	_
	NoCB 4	164	36.85	4050	no	2072	0.000005	0.002				
163 PCB 206	NoCB 4		41.22 41.17	125 3 1 72 0	0.73 yes	2973	0.006985		9	no	1.017	-
164 PCB 209	DCB 5	198 500	43.06 43.06	1716 1562	1.1 yes	3278	0.00807	0	100 43	no	1.026	-
165 PCB 1l.	2	200 202	8.82 8.82	49597 14892	3,33 yes	64489	0.06256	0.004	4 603 21	no	0.997	31
166 PCB 3L	2	200	10.00	50412	3.34	65516	0.060339	0.000	607	no	1.05	30
167 PCB 4L		202 2 34	9.99 10 .11	15104 222 22	yes 1.6	36075	0.075141	0.003	21 3 81	по	0.464	38
168 PCB 15L		236 2 34	10.10 12.70	13853 78863	yes 1.64	126834	0.105052	0.002	171 2 140	no	1.168	53
	2	236	12.69	47972	yes	51017	0.092093	0.003	282		0.536	46
169 PCB 19L	2	2 68 270	11.48 11. 47	26085 24 931	1.05 yes				66			
170 PCB 37L		268 270	16.35 16.35	77369 75040	1.03 yes	152409	0.143272	0.000	3 136 151	no	1.848	72
171 PCB 54L		302 304	12.82 12.82	21341 29846	0.72 yes	51187	0.110849	0.00	1 188 406	no	0.802	56
172 PCB 81L	3	302	20.99	71495	0.77	164651	0.17904	0.00	1 310	no	1.597	90
173 PCB 77L	3	304 3 02	20.97 21.42	93155 7 3838	yes 0.84	161306	0.174342	0.00		no	1.607	87
174 PCB 104L		304 338	21.42 15.62	87468 47 938	yes 1.73	75629	0.161526	0	316 3167	no	0.912	81
175 PCB 123L	3	340 138	15.64 23.05	27690 94539	yes 1.63	152510	0.187823	0.00	1416	no	1.581	94
	3	340	2 3.02	57971	yes				415			
176 PCB 118L		138 140	23.33 23.31	93955 60198	1.56 yes	154153	0.198802	0.00	1 451 432	no	1.51	100
177 PCB 114L		38 340	23.80 23.78	92407 56588	1.63 yes	148995	0.19719	0.00	1 438 401	no	1.471	99
178 PCB 105L	3	38	24.35	92048	1.65	147794	0.193336	0.00	1 448	no	1.488	97
179 PCB 126L	3	38	24.34 27.19	79007	yes 1.68	125935	0.170198	0.00		no	1.44	85
180 PCB 155L		140 172	27.15 19.24	4 6928 5240 7	yes 1.24	94539	0.169158	0	303 1332	no no	1.01	85
181 PCB 167L		74 72	19.26 28.99	42133 8184 1	yes 1.28	145647	0.184891	0.00	2680 1 1373	no	1.424	93
182 PCB 156L/157L	3	74	29.00 30.15	63806 170852	yes 1.39	294112		0.00	569	no	1.495	89
	3	72 74	30.15	123260	yes				937			
183 PCB 169L		72 74	33.53 33.54	46007 34732	1.32 yes	80739	0.096165	0.00	1 744 301	no	1.518	48
184 PCB 188L		06 08	23.76 23.78	63096 57884	1.09 yes	120980	0.191434	0	1167 1647	no	1.142	96
185 PCB 180L	4	106	31.59	54359	0.98	109790	0.176121	0.00	1 620	yes	1.343	88
186 PCB 170L	4	08 1 06	31.58 32.90	55431 48652	yes 1.1	93080	0.17566	0.00		no	1.141	88
187 PCB 189L		08 1 06	32.89 36.29	44428 79063	yes 1.03	155484	0.174157	0.00	775 2 248	no	1.923	87
188 PCB 202L	4	08 1 40	36.29	76421 53471	yes		0.179452	0	508 1845	no	1.353	90
	4	42	28.75 28.76	59242	0.9 yes				1307			
189 PCB 205L		40 42	39.19 39.19	53789 65448	0.82 yes	119237	0.180374	0.00	1 614 757	no	1.424	90
190 PCB 208L		74 76	35.78 35.79	46490 62956	0.74 yes	109446	0.180049	0.00	1 495 97 6	no	1.309	90
191 PCB 206L	4	74	41.17	37568	0.82	83596	0.194979	0.00	1 382	no	0.924	98
192 PCB 209L	5	76 10	41.20 43.02	46029 4098 7	yes 1.08	79033	0.205516	0	670 2408	no	0.828	103
193 PCB 28L		12 68	43.06 14.13	38046 85214	yes 1,05	166017	0.146453	0.00	1790 3 161	no	1.969	66
PCB Cleanup St			14.13	80803	yes				175			

Maxxam Analytics Page 2524 of 2579

194	PCB 111L	338	21.42	90541	1.5	151070	0.214217	0.001	898	no	1.373	97
	PCB Cleanup Standard	340	21.40	60529	yes				1751			
195	PCB 178L	406	26.51	43333	1.03	85377	0.210755	0.001	772	no	0.732	95
	PCB Cleanup Standard	408	26.52	42044	yes				1190			
196	PCB 31L	268	NotFnd		´*	•		0.003		no	1.878	
	PCB Audit Standard	270	13.98	•	no							
197	PCB 95L	338	NotFnd	•	•	•		0.001		no	0.916	
	PCB Audit Standard		17.38	•	no							
198	PCB 153L	372	NotFnd	*	•			0.001		no	1.173	
	PCB Audit Standard	374	24.98		no							
199		234	10.99	702675	1.58	1146522	2.841448		1304	no	-	_
	PCB Recovery Standard		11.00	443847	yes				2728			
200		302	15.07	285911	0.81	638588	2.846493	_	1725	no	_	-
	PCB Recovery Standard		15.05	352678	yes				4868			
201		338	19.38	348199	1.57	569749	2.796343		3713	no	-	_
	PCB Recovery Standard		19.36	221550	yes				7015			
202		372	26.10	339910	1.24	613545	2.953974	_	6798	по	_	_
	PCB Recovery Standard		26.07	273635	yes	0.00.0	21000011		3486			
203		440	38.65	245720	0.91	514946	2.752888	_	2895	no	_	_
200	PCB Recovery Standard		38.59	269227	Vee	5.1540	211 02000		3170	.,0		

Maxxam Analytics

Quantify Sample Report

MassLynx 4.0 SP1

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Acquired Date

Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Octor Only

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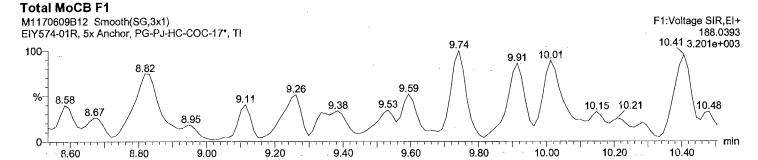
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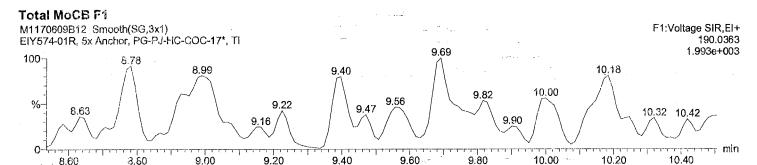
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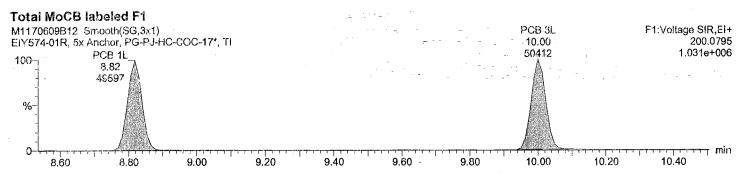
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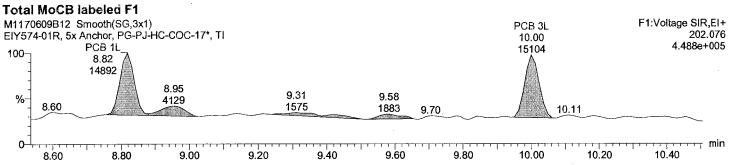
Date: 10-Jun-2017 Time: 03:53:02 Instrument:











MassLynx 4.0 SP1

9.00

9.20

8.80

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Acquired Date Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY574-01R, 5x

Vial: 12

Date: 10-Jun-2017 Time: 03:53:02 Instrument:



Total DiCB F1 F1:Voltage SIR,EI+ M1170609B12 Smooth(SG,3x1) EIY574-01R, 5x Anchor, PG-PJ-HC-COC-17*, TI 222.0003 8,360e+003 % 9.16 9.32 10.05 10.14 10.30 8.78 9.08 9.58 9.749.80 10.42 9.26 8.67

9.60

9.40

10.00

9.80

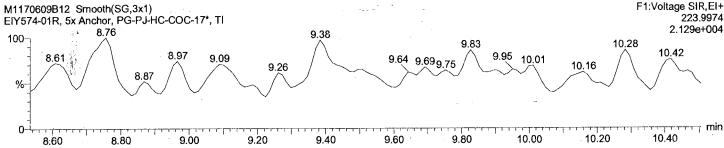
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-10.40

Total DiCB F1

8.60

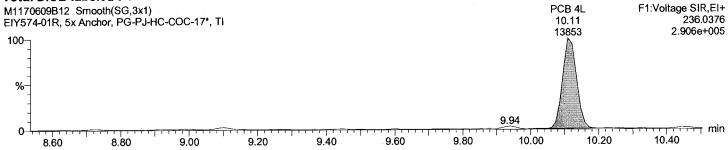
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Total DiCB labeled F1

PCB 4L F1:Voltage SIR,EI+ M1170609B12 Smooth(SG,3x1) 234.0406 10.11 EIY574-01R, 5x Anchor, PG-PJ-HC-COC-17*, TI 4.584e+005 22222 100 % 0 9.80 10.00 10.20 10.40 9.40 9.60 8.60 8.80 9.00 9.20

Total DiCB labeled F1



Quantify Sample Report

Acquired Date

MassLynx 4.0 SP1

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Dataset:

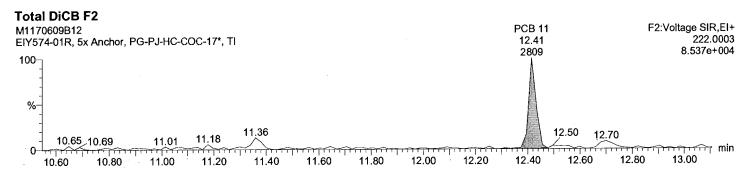
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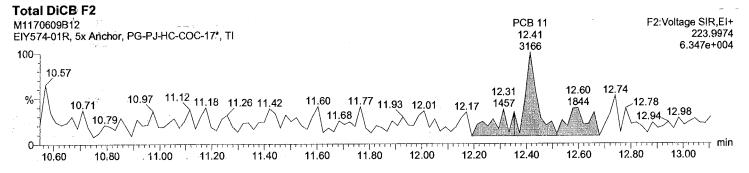
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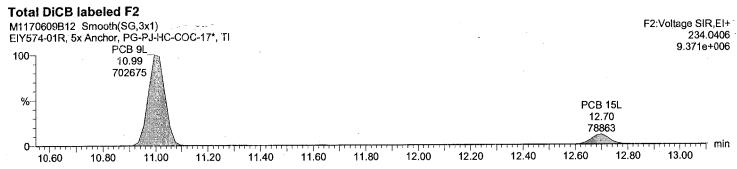
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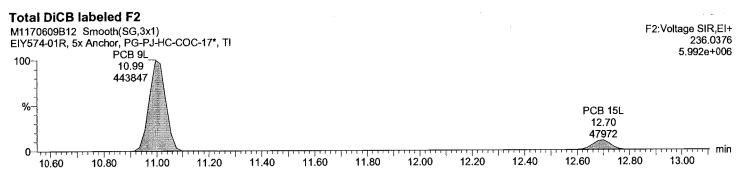
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Last Altered: Printed:

Acquired Date

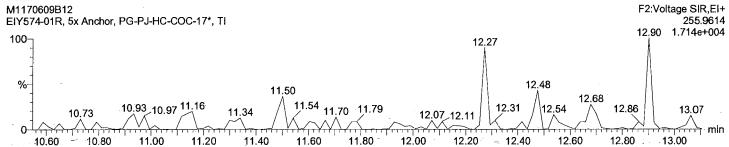
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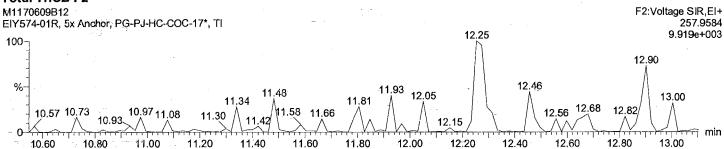
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Date: 10-Jun-2017 Time: 03:53:02 Instrument:

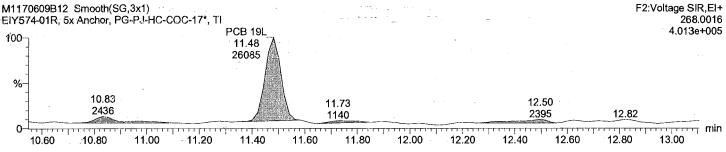
Total TriCB F2

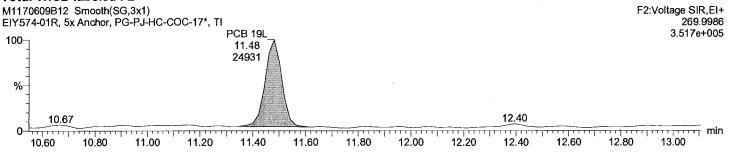


Total TriCB F2



Total TriCB labeled F2





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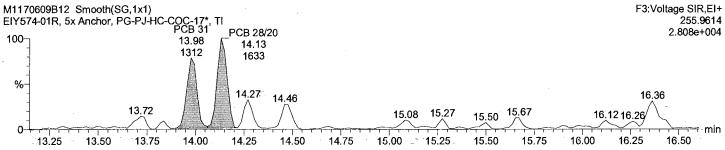
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Vial: 12

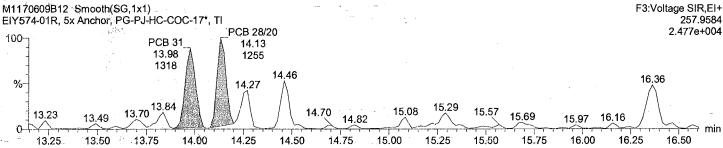
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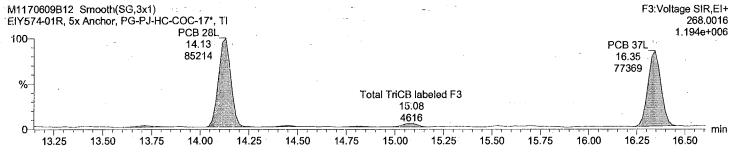


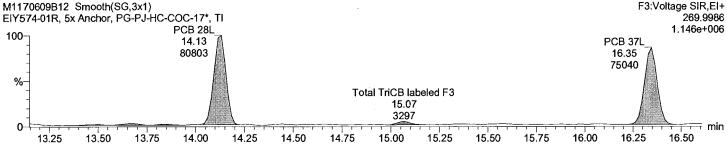


Total TriCB F3



Total TriCB labeled F3





F2:Voltage SIR,EI+

Dataset:

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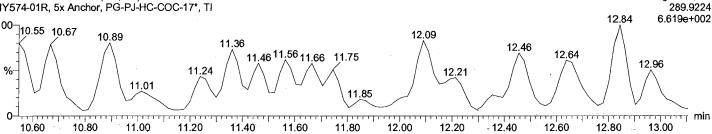
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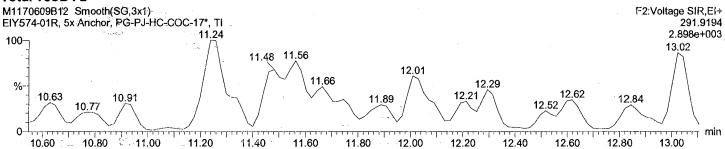
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Total TeCB F2

M1170609B12 Smooth(SG,3x1) EIY574-01R, 5x Anchor, PG-PJ-HC-COC-17*, TI

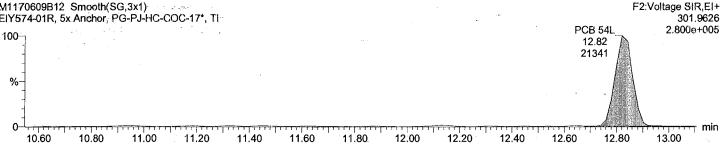


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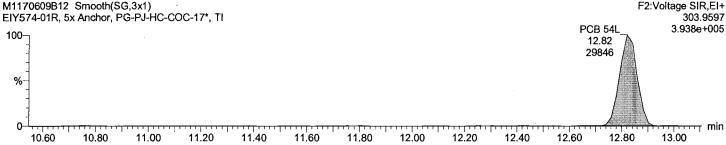
Total TeCB labeled F2

M1170609B12 Smooth(SG.3x1) EIY574-01R, 5x Anchor, PG-PJ-HC-COC-17*, TI



Total TeCB labeled F2

M1170609B12 Smooth(SG,3x1)



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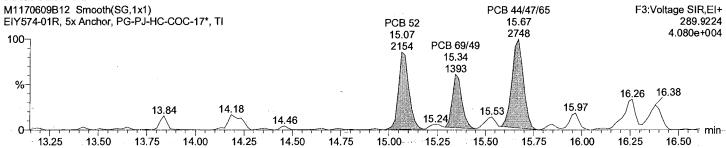
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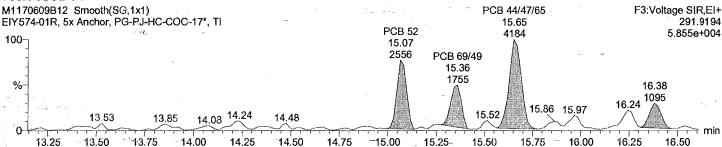
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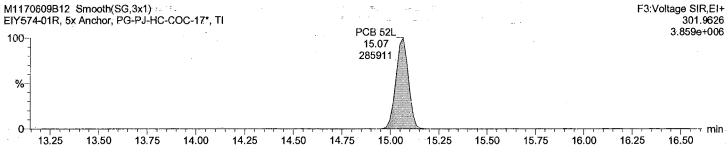


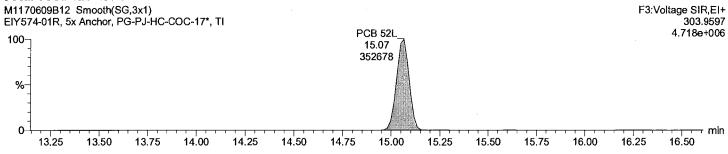


Total TeCB F3



Total TeCB labeled F3





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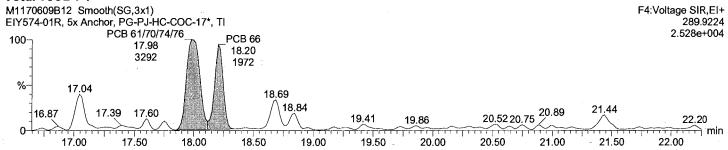
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY574-01R, 5x

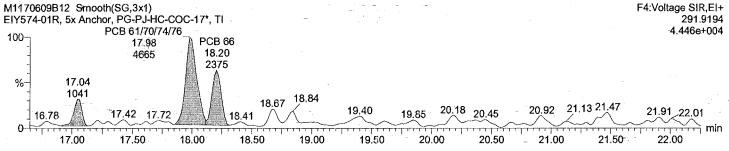
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Date: 10-Jun-2017 Time: 03:53:02 Instrument:

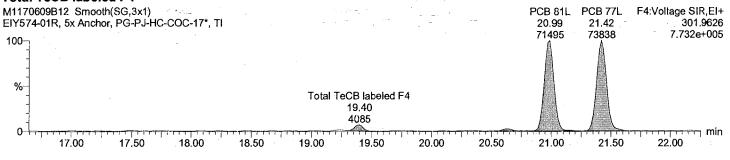
Total TeCB F4

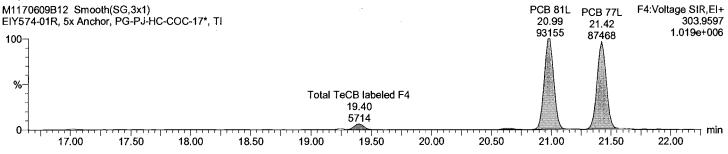


Total TeCB F4









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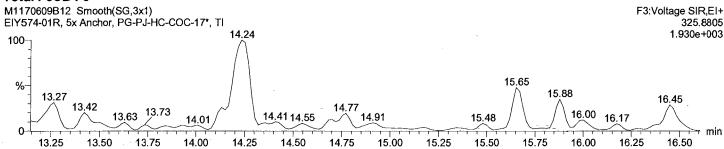
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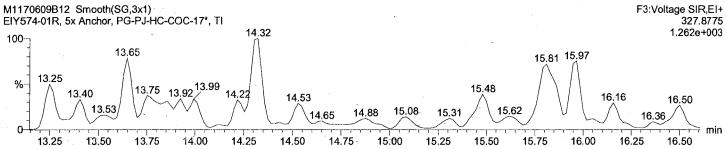
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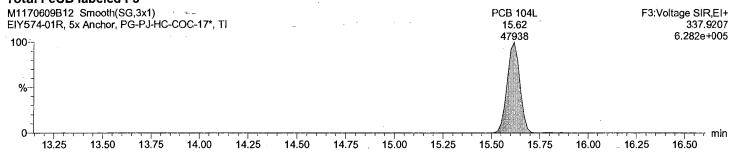
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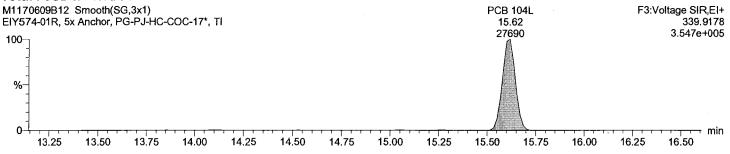












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Last Altered:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

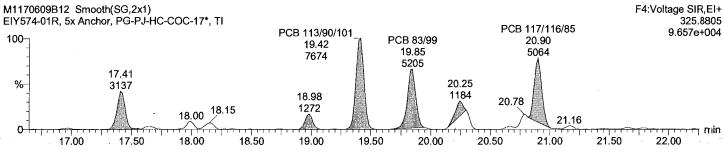
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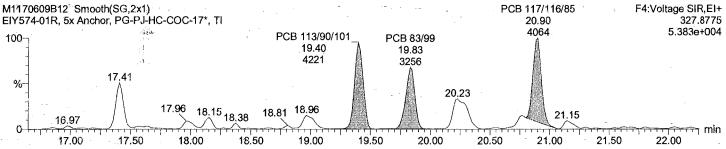
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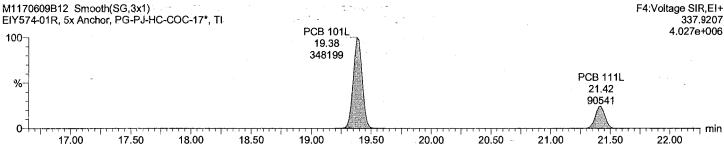
Total PeCB F4

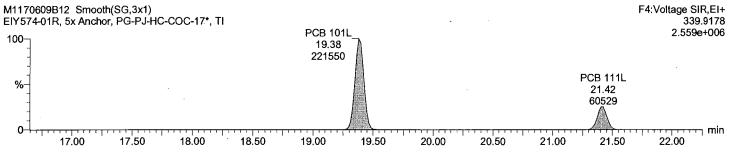






Total PeCB labeled F4





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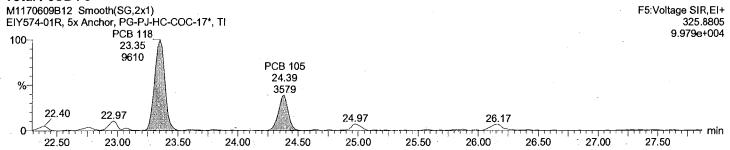
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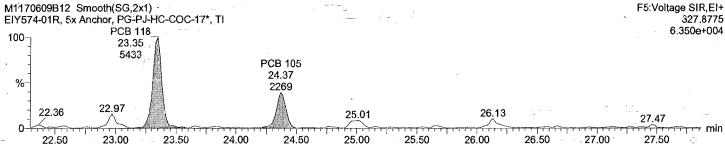
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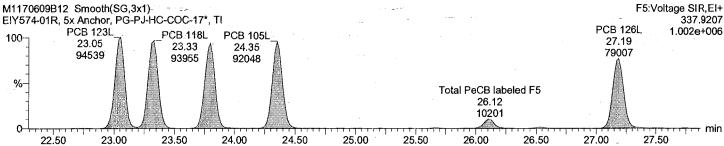
Total PeCB F5

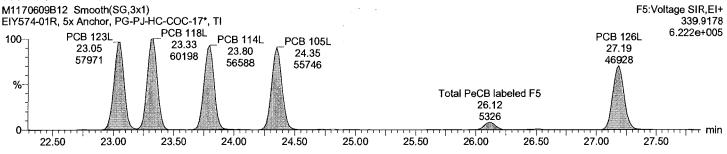


Total PeCB F5



Total PeCB labeled F5





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Last Altered: Printed:

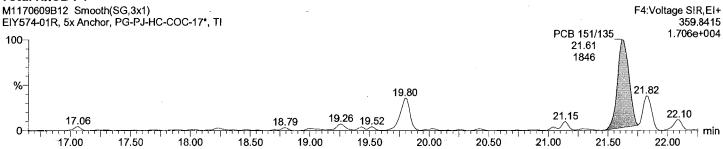
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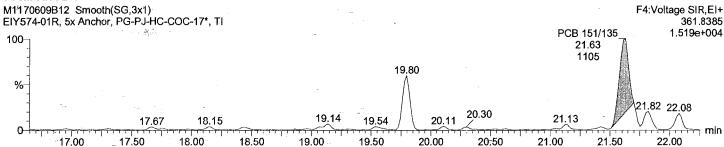
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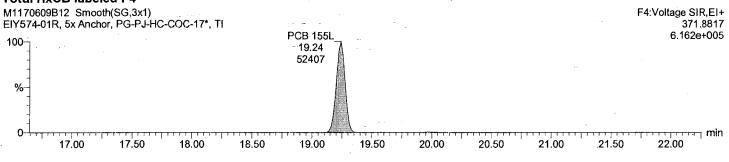
Total HxCB F4

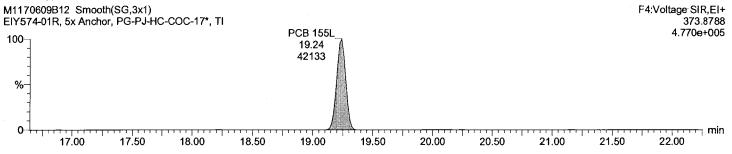


Total HxCB F4



Total HxCB labeled F4





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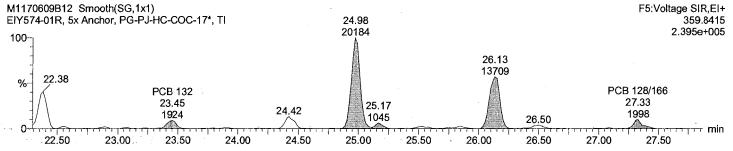
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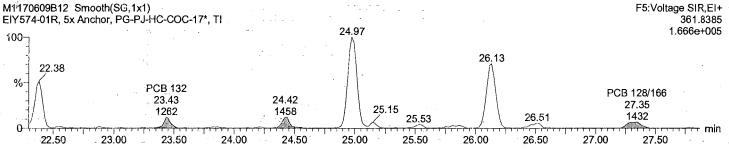
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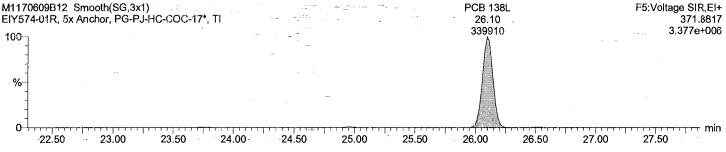
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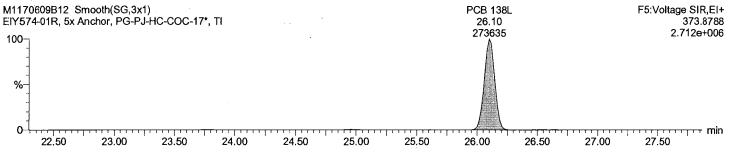












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30.00

29.50

30.50

31.00

Description: EIY574-01R, 5x

Vial: 12

Date: 10-Jun-2017 Time: 03:53:02 Instrument:

Total HxCB F6

M1170609B12 Smooth(SG,3x1) F6:Voltage SIR,EI+ EIY574-01R, 5x Anchor, PG-PJ-HC-COC-17*, TI 359.8415 6.979e+003 29.03 100 30.17 % 28.41 31.61 28.67 32.94 33.15 33.70 34.39 34.58 -32.54 30.64 30.97 31.09 29.81 29.32 0 □ min

31.50 -

32.00

32.50

33.00

33.50

34.00

34.50

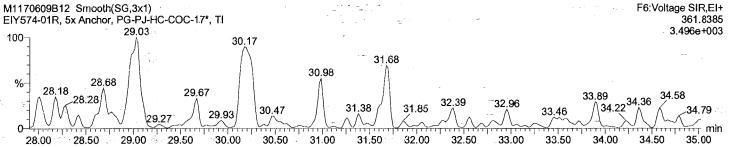
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Total HxCB F6

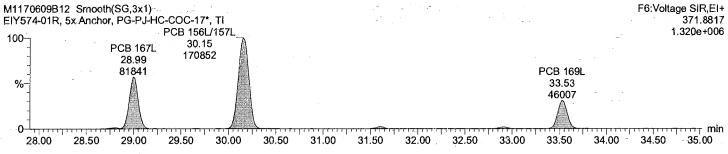
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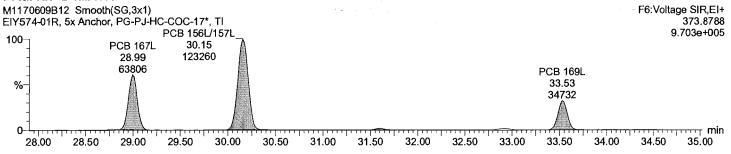
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28.00



Total HxCB labeled F6





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June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

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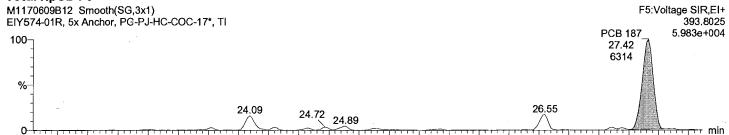
24.50

Description: EIY574-01R, 5x

Vial: 12

Date: 10-Jun-2017 Time: 03:53:02 Instrument:

Total HpCB F5



25.00

25.50

26.00

26.50

27.00

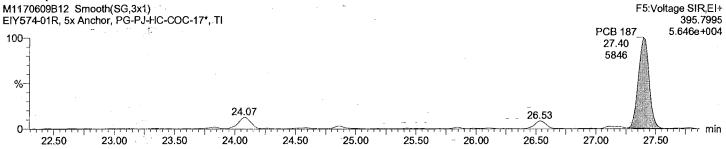
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Total HpCB F5

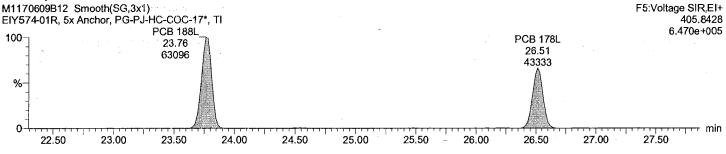
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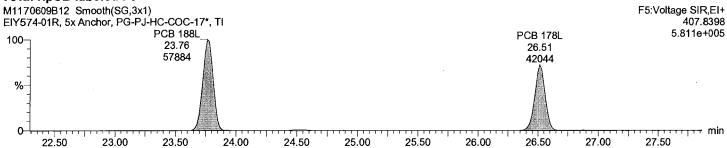
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23.50



Total HpCB labeled F5





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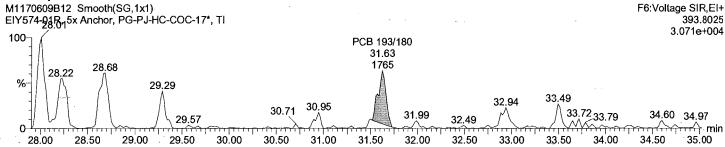
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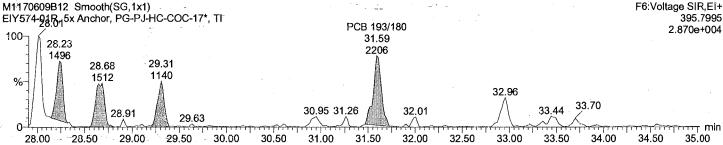
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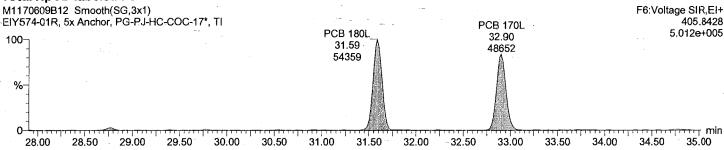


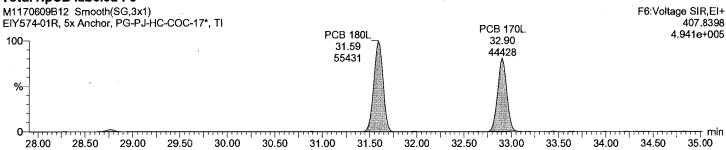






Total HpCB labeled F6





F7:Voltage SIR,EI+

F7:Voltage SIR,EI+

Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY574-01R, 5x

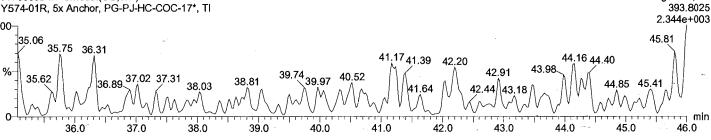
Vial: 12

Date: 10-Jun-2017 Time: 03:53:02 Instrument:

Total HpCB F7

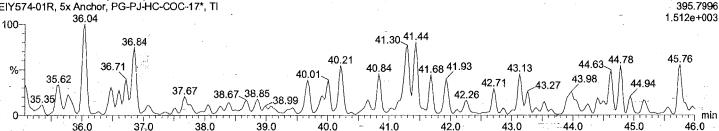
M1170609B12 Smooth(SG,3x1)

EIY574-01R, 5x Anchor, PG-PJ-HC-COC-17*, TI



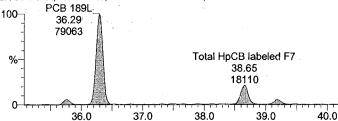
Total HpCB F7

M1170609B12 Smooth(SG,3x1) EIY574-01R, 5x Anchor, PG-PJ-HC-COC-17*, TI

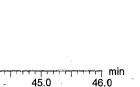


Total HpCB labeled F7

M1170609B12 Smooth(SG,3x1) EIY574-01R, 5x Anchor, PG-PJ-HC-COC-17*, TI



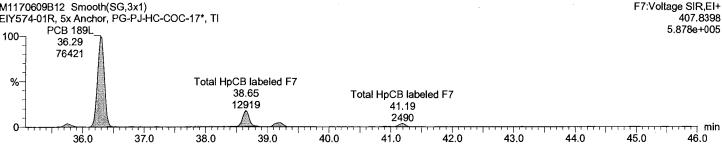
F7:Voltage SIR,EI+ 405.8428 6.146e+005



Total HpCB labeled F7

M1170609B12 Smooth(SG,3x1)

EIY574-01R, 5x Anchor, PG-PJ-HC-COC-17*, TI



Total HpCB labeled F7

41,17 2716

42.0

43.0

44.0

41.0

† min

35.00

34.50

Acquired Date

Dataset:

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Last Altered: Printed:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY574-01R, 5x

29.00

28.50

29.50

30.00

30.50

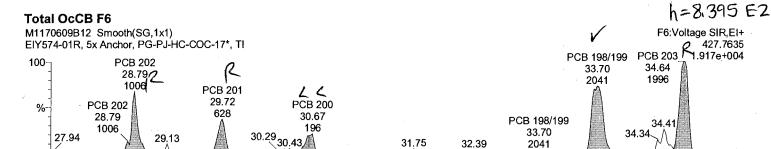
31.00

Vial: 12

Date: 10-Jun-2017 Time: 03:53:02 Instrument:

28.00





31.50

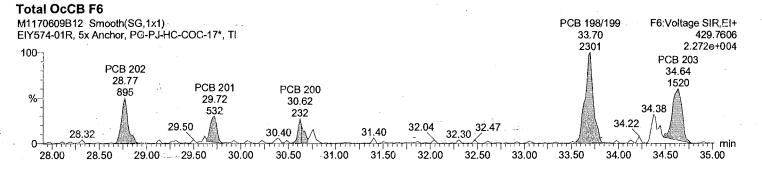
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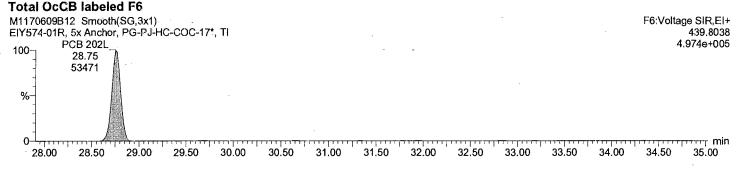
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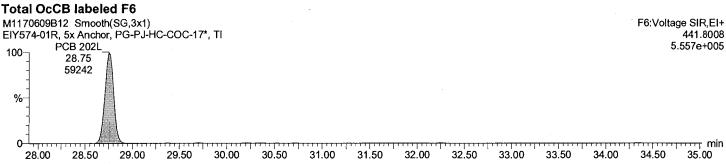
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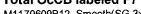
33.50

34.00









M1170609B12 Smooth(SG,3x1) F7:Voltage SIR,EI+ EIY574-01R, 5x Anchor, PG-PJ-HC-COC-17*, TI 441.8008 2.134e+006 PCB 194L 100 38.65 269227 PCB 205L % 39.19 65448 🗂 min 37.0 38.0 39.0 40.0 41.0 42.0 43.0 44.0 36.0 45.0 46.0

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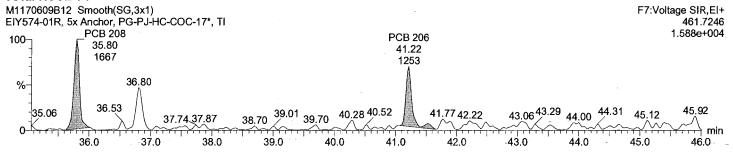
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Description: EIY574-01R, 5x

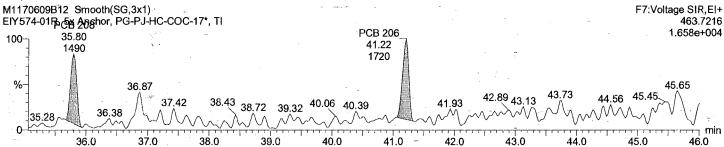
Vial: 12

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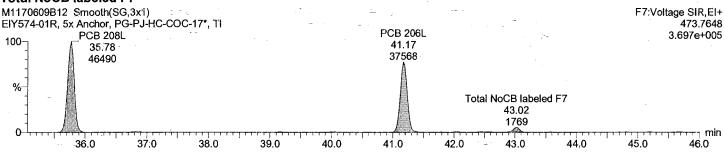
Total NoCB F7



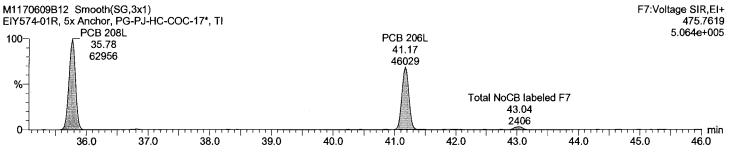




Total NoCB labeled F7



Total NoCB labeled F7



Acquired Date

Dataset:

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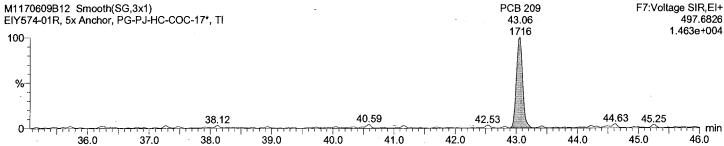
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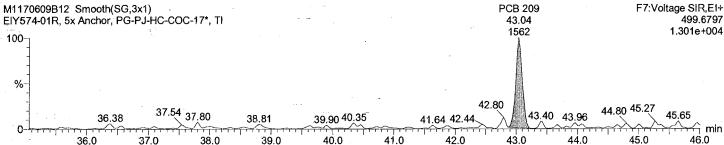
Vial: 12

Date: 10-Jun-2017 Time: 03:53:02 Instrument:

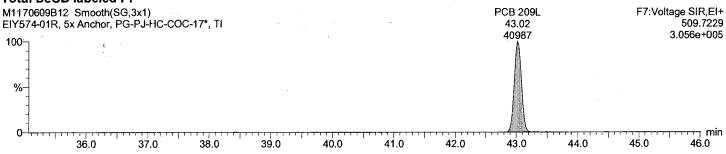


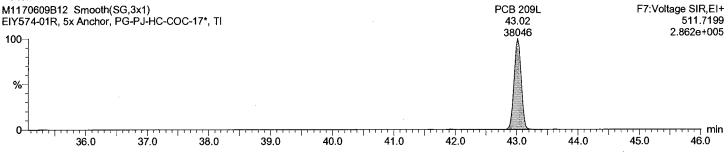


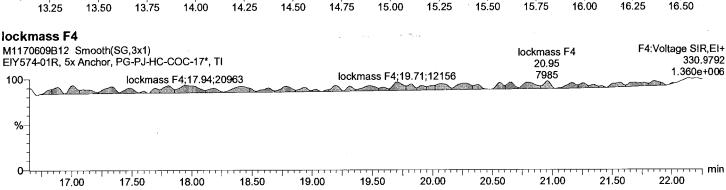




Total DeCB labeled F7







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Dataset:

Acquired Date

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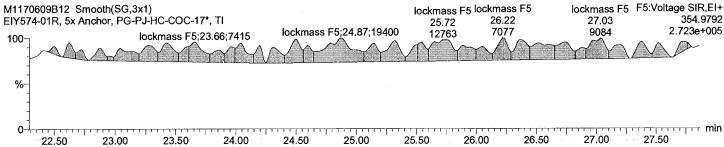
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

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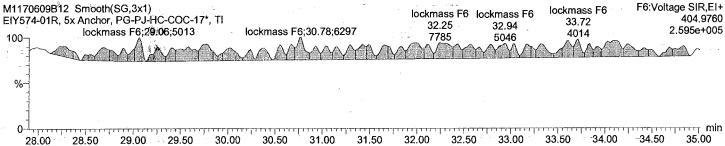
Vial: 12

Date: 10-Jun-2017 Time: 03:53:02 Instrument:

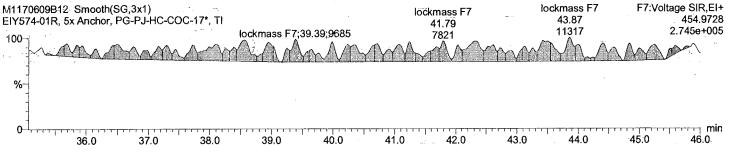




lockmass F6



lockmass F7



Filename M1170609B13 Acquired 10/06/2017 4:43

Call File PCB209_M1170609B

Sample ID EIY575-01R, 5x Comments Instrument File Ultima 1 Sample Size 10.034

Dil Fac 1.00

pie 3ize 10.034		Dii Fac	1.00										
Name 1 PCB 1		mass 188	RT NotFnd	Area *	ratlo	Tot Area	ng/g	Code	DL 0.001	S/N	Mod no	rrf 1.053	Rec
	MoCB	190	8.81	• 1	no						,,,		
2 PCB 2	MoCB	188	NotFnd 9.91	:	no	•			0		no	1.198	-
3 PCB 3	INDOD	188	NotFnd	*	•	*			0.001		no	1.055	-
4 DCD 4	MoCB		10.00	*	no				0.000			4 404	
4 PCB 4	DICB	222 224	NotFnd 10.11		no	-			0.002		no	1.191	-
5 PCB 10		222	NotFnd	•	•				0.002		no	1.156	
6 PCB 9	DiCB	224 222	10.20 NotFnd	•	no *				0.005			1.544	
0 1003	DiCB		11.00	•	no				0.005		no	1.044	-
7 PCB 7		222	NotFnd	*	•	•			0.006		no	1.399	-
8 PCB 6	DiCB	224 222	11.08 NotFnd	:	no •				0.006		no	1.424	
0,7000	DICB		11.18	•	no				0.000		110	1.424	
9 PCB 5	DICB	222	NotFnd	:	•	•			0.006		no	1.462	-
10 PCB 8	DICB	222	11.30 NotFnd	*	no *				0.006		no	1.443	-
	DICB	224	11.36	•	no								
11 PCB 14	DICB	222	NotFnd 12.03	:	no	•			0.005		no	1.506	-
12 PCB 11	DIOD	222	12.41	3835	1.17	7107	0.010117		0.006	19	no	1.42	-
40 000 40/40	DICB		12.40	3272	no					3		4.440	
13 PCB 13/12	DICB	222 224	NotFnd 12.54		no	•			0.006		no	1.443	-
14 PCB 15		222	NotFnd	•		*			0.007		no	0.956	-
15 PCB 19	DiCB		12.68	:	no				0.000			4.00	
15 FCB 19	TriCB	256 258	NotFnd 11.46	•	no				0.002		no	1.06	•
16 PCB 30/18		256	NotFnd	•	•	•			0.001		no	1.033	-
17 PCB 17	TriCB	258 256	12.25 NotFnd	:	no *				0.001		no	0.838	
, 11 1 05 11	TriCB		12.46	•	по				0.001		no	0.030	-
18 PCB 27	7.00	256	NotFnd	:	•	•			0.001		no	1.164	-
19 PCB 24	TriCB	258 256	12,54 NotFnd		no ∗				0.001		no	1.35	_
	TriCB	258	12.58	. •	no						110	7.00	
20 PCB 16	TriCB	256	NotFnd	•	•	•			0.002		no	0.606	-
21 PCB 32		256	12.66 NotFnd	•	no *				0.001		no	1.334	_
	TriCB	258	12.88	*	no								
22 PCB 34	TriCB	256	NotFnd 13.46	:	no	*			0		no	1.427	-
23 PCB 23		256	NotFnd	•	*	*			0.001		no	1.32	-
	TriCB		13.54	•	no	_							
24 PCB 26/29	TriCB	256 258	NotFnd 13.70		no	*			0		no	1.443	-
25 PCB 25		256	NotFnd	*	*	•			0.001		no	1.389	-
26 PCB 31	TriCB		13.83	4054	no 0.70	0040	0.000404		•	00		4 507	
20 FGB 31	TriCB	256 258	13.96 13.99	1251 1591	0.79 no	2842	0.003164		0	26 31	no	1.527	-
27 PCB 28/20		256	14.13	2653	0.98	53 57	0.006318		0	54	no	1.441	-
28 PCB 21/33	TriCB	258 256	14.14 NotFnd	2704	yes		1		0.001	51	no	1.391	
20 / 05 2 1/00	TriCB		14.26	•	no				0.001		110	1.551	-
29 PCB 22		256	NotFnd	•	•	•			0.001		no	1.357	-
30 PCB 36	TriCB	258 256	14.45 NotFnd		no •				0		no	1.632	_
	TriCB	258	15.28	. •	no				·		110	1.002	
31 PCB 39	TriCB	256	NotFnd	•	•	*			0		no	1.448	-
32 PCB 38		256 256	15.48 NotFnd	•	no *	•			0		no	1.474	-
	TriCB		15.86	•	no								
33 PCB 35	TriCB	256 258	NotFnd 16.08	:	no	•			0.001		no	1.4	-
34 PCB 37		256	NotFnd		*	*			0.001		no	0.951	-
05 000 54	TriCB		16.35	:	no								
35 PCB 54	тсв	290 292	NotFnd 12.82		no.	•			0.001		no	1.071	-
36 PCB 53/50		290	NotFnd	*	•	*			0.002		no	0.861	-
37 PCB 45/51	TCB		13.86	•	no •				0.000			0.000	
37 FCB 43/51	тсв	290 292	NotFnd 14.21	•	no				0.002		no	0.832	-
38 PCB 46		290	NotFnd	•	*	•			0.003		no	0.718	-
39 PCB 52	TCB	292 290	14.35 15.07	402 5	no 0.69	9882	0.015148		0.002	28	по	0.961	_
	тсв		15.05	5858	yes	J302	J.010140		0,002	43	110	0.801	•
40 PCB 73		290	NotFnd	•	•	•			0.002		no	1.012	-
41 PCB 43	TCB :	292 290	15.14 NotFnd	•	no •				0.002		n c	0.787	_
71 1 00 40	тсв		15.21	•	no				V.UU2		no	0.707	-
42 PCB 69/49		290	15.34	1790	0.77	4102	0.006341		0.002	12	no	0.953	-
43 PCB 48	TCB :	292 290	15.34 NotFrid	2312	yes				0.002	17	no	0.848	
	TCB :	292	15.50	•	no								-
44 PCB 44/47/65	TCB :	290 202	15.65	4565 6673	0.68	11238	0.018057		0.002	26	no	0.917	-
45 PCB 59/62/75		292 290	15,64 NotFnd	6673	yes *	•			0.002	41	no	1.12	-
	•												

	TCB 292	15.84	•	no							
46 PCB 42	290 TCB 292	NotFnd 15.94	•	* no	•		0.002		no	0.728	-
47 PCB 40/41/71	290	NotFnd	•	•	•		0.002		no	0.85	
48 PCB 64	TCB 292 290	16.23 NotFnd		no •	*		0.002		no	1.079	_
	TCB 292	16.37	:	no							
49 PCB 72	290 TCB 292	NotFnd 16.88	•	no	-		0.001		no	1.426	~
50 PCB 68	290 TCB 292	17.04 17.07	1060 1273	0.83 yes	2333	0.002471	0.001	12 7	no	1.39	-
51 PCB 57	290	NotFnd	1270	•	•		0.001	,	no	1.359	-
52 PCB 58	TCB 292 290	17.34 NotFnd	:	no *			0.001		no	1.206	_
53 PCB 67	TCB 292 290	17.49 NotFnd	:	no *	•		0.001				
	TCB 292	17.57	•	no					no	1.485	-
54 PCB 63	290 TCB 292	NotFnd 17,74	•	no	•		0.001		no	1.419	-
55 PCB 61/70/74/76	6 290	17.98	8216	0.83	18059	0.020178	0.001	70	no	1.318	-
56 PCB 66	TCB 292 290	17.99 18.20	9843 358 5	yes 0.77	8255	0.008782	0.001	41 40	no	1.384	-
57 PCB 55	TCB 292 290	18.22 NotFnd	4670	yes			0.001	23	no	1.248	
	TCB 292	18.35	•	no							
58 PCB 56	290 TCB 292	NotFnd 18.69		no	•		0.001		no	1.286	-
59 PCB 60	290 TCB 292	NotFnd 18.85	:	no	*		0.001		no	1.277	-
60 PCB 80	290	NotFnd	•	•	•		0.001		no	1.5	-
61 PCB 79	TCB 292 290	19.08 NotFnd		no *	•	,	0.001		no	1.544	
62 PCB 78	TCB 292 290	20.22 NotFnd	*	no •			0.001			1.394	
	TCB 292	20.66	*	no					no		-
63 PCB 81	290 TCB 292	NotFnd 20.99		no	•		0.001		no	1.02	•
64 PCB 77	290 TCB 292	NotFnd	•	•	*		0.001		no	1.016	-
65 PCB 104	326	21.43 NotFnd	•	no *	•		0		no	1.194	-
66 PCB 96	PeCB 328 326	15.62 NotFnd		no *			0		no	0.819	_
67 PCB 103	PeCB 328 326	15.84		no *							
	PeCB 328	NotFnd 16.96	•	no			0.001		no	0.834	-
68 PCB 94	326 PeCB 328	NotFnd 17.10	:	no	•		0.002		no	0.668	-
69 PCB 95	326 PeCB 328	17.39	6060 4078	1.49	10138	0.017438	0.002	57	no	0.789	-
70 PCB 100/93/102/	98 326	17.38 NotFnd	4076 *	yes	•		0.002	26	no	0.724	-
71 PCB 88/91	PeCB 328 326	17.52 NotFnd	•	no •			0.002		no	0.739	_
	PeCB 328 326	17.93	1071	no 1.00	2222	0.004609		40			
72 PCB 84	PeCB 328	18.13 18.10	1271 1011	1.26 no	2283	0.004698	0.002	12 7	no	0.66	-
73 PCB 89	326 PeCB 328	NotFnd 18.43	:	ro	•		0.002		no	0.717	-
74 PCB 121	326	NotFnd	:	•	•		0.001		no	0.972	-
75 PCB 92	PeCB 328 326	18.68 18.97	2 52 1	no 1.44	4272	0.007734	0.002	26	no	0.75	
76 PCB 113/90/101	PeCB 328 326	18.94 19.40	1751 15108	yes 1.53	2501 5	0.039704	0.001	11 141	no	0.856	_
	PeCB 328	19.36	9907	yes				63			
77 PCB 83/99	326 PeCB 328	19.83 19.81	1 0358 6532	1.59 yes	16890	0.029967	0.002	91 37	no	0.765	-
78 PCB 112	326 PeCB 328	NotFnd 19.89	:	ho	•		0.001		no	0.907	-
79 PCB 109/119/86/	97/125/1326	NotFnd	:	•	*		0.001		no	0.874	-
80 PCB 117/116/85	PeCB 328 326	20.19 NotFnd	•	no •	*		0.001		no	0.912	-
81 PCB 110/115	PeCB 328 326	20.74 NotFnd	:	no •			0.001		no	0.93	
82 PCB 82	PeCB 328 326	20.86	:	no *							
	PeCB 328	NotFnd 21.13	•	NO	-		0.002		no	0.681	-
83 PCB 111	326 PeCB 328	NotFnd 21.42	:	no	•		0.001		no	1.022	-
84 PCB 120	326 PeCB 328	NotFnd 21.78		no	•		0.001		no	1.091	-
85 PCB 108/124	326	NotFnd	:	•	*		0.001		no	1.201	-
86 PCB 107	PeCB 328 326	22.76 NotFnd	•	no *	•		0		no	1.375	-
87 PCB 123	PeCB 328 326	22.97 NotFnd	•	no •			0.001		no	0.921	_
	PeCB 328	23.06	:	no *							
88 PCB 106	326 PeCB 328	NotFnd 23.17	*	no			0.001		no	1.282	-
89 PCB 118	326 PeCB 328	23.33 23.31	19123 12353	1.55 yes	31476	0.037564	0.001	260 140	no	1.028	-
90 PCB 122	326	NotFnd		•	•		0.001		no	1.158	-
91 PCB 114	PeCB 328 326	23.62 NotFnd	•	no *			0.001		no	1.023	
92 PCB 105	PeCB 328 326	23.80 24.35	7301	no 1.58	11930	0.014654	0.001	89	no	1.024	_
	PeCB 328	24.36	4629	yes	. 1330	2101-00-		50			-
93 PCB 127	326 PeCB 328	NotFnd 25.68	•	no	•		0.001		no	1.256	-
94 PCB 126	326 PeCB 328	NotFnd 27.20		no	*		0.001		no	1.093	-
		0		110							

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95 PCB 155	HxCE	360 3 362	NotFnd 19.24	÷	ro no	•			0		no	1.103	•
96 PCB 152	HxCE	360 3 362	NotFnd 19.38	:	no	•			0		no	0.849	-
97 PCB 150		360	NotFnd	•	•	•			0		no	0.77	-
98 PCB 136		362 360	19.51 19.78	1435	no 1.39	2471	0.004854		0	113	no	0.816	_
99 PCB 145	HxCE	362 360	19.76 NotFnd	1035	yes *				0	38	no	0.755	_
100 PCB 148	HxCE	362	20.01	:	no								_
	HxCE		NotFnd 21.11	*	no				0		no	0.617	-
101 PCB 151/135	HxCE	360 3 362	21.61 21.59	3756 3085	1.22 yes	6840	0.018285		0	218 73	no	0.6	-
102 PCB 154	HxCE	360	NotFnd 21.80		•	•			0		no	0.691	-
103 PCB 144		360	NotFnd		no *	•			0		no	0.618	-
104 PCB 147/149	HxCE	362 360	22.05 NotFnd		no •				0.003		no	0.809	_
105 PCB 134/143	HxCE	362 360	22.34 NotFnd	•	no *				0.003		no	0.689	_
	HxCB	362	22.59	:	no								-
106 PCB 139/140	HxCB		NotFnd 22.86		no	-			0.003		no	0.804	-
107 PCB 131	HxCB	360 362	NotFnd 23.03	:	no	•			0.003		no	0.649	-
108 PCB 142	HxCB	360	NotFnd 23.16	:		*			0.003		no	0.718	-
109 PCB 132		360	23.42	2561	no 1.23	4647	0.010644		0.003	19	no	0.7	-
110 PCB 133	HxCB	362 360	23.41 NotFnd	2087	yes *				0.003	11	no	0.786	_
111 PCB 165	HxCB	362 360	23.84 NotFnd	:	no *	*			0.002			0.992	
	HxCB	362	24.21	•	no						no		-
112 PCB 146	HxCB	360 362	24.40 24.41	5136 3512	1.46 no	8648	0.015492		0.003	31 17	no	0.895	-
113 PCB 161	HxCB	360 362	NotFnd 24.53	:	* no	•			0.002		no	1.015	-
114 PCB 153/168		360	24.98	36395	1.29	64589	0.104268		0.002	223	no	0.993	-
115 PCB 141	HxCB	360	24.99 NotFnd	28194	yes *				0.003	136	no	0.784	-
116 PCB 130	HxCB	362 360	25.14 25.51	1081	no 0.91	2264	0.00507		0.003	7	no	0.716	_
117 PCB 137	HxCB		25.51	1183	no					6			
	НхСВ	362	NotFnd 25.75	•	no				0.003		no	0.675	-
118 PCB 164	НхСВ	360 362	NotFnd 25.83	*	no	•			0.002		no	1.109	-
119 PCB 138/163/129	HxCB	360	26.12 26.15	25058 20232	1.24 yes	45290	0.085706		0.003	159 92	no	0.847	-
120 PCB 160		360	NotFnd	*	•	•			0.002	92	no	0.943	-
121 PCB 158	HxCB	360	26.30 26.48	1272	no 0.77	2919	0.004241		0.002	10	no	1.103	-
122 PCB 128/166	HxCB	362 360	26.47 27.31	1646 3749	no 1.54	6189	0.010619		0.002	9 19	no	0.934	
123 PCB 159	HxCB	362	27.31	2440	no	•	0.010010			11			
	НхСВ		NotFnd 28.27	•	no				0		no	1.254	-
124 PCB 162	НхСВ	360 362	NotFnd 28.53	*	no	•			0		no	1.204	-
125 PCB 167	HxCB	360 362	NotFnd 29.02	:	no	•			0		no	1.103	-
126 PCB 156/157		360	30.14	2599	1.54	4289	0.005172		0	84	no	1.047	-
127 PCB 169	HxCB	362 360	30.17 NotFnd	1691	no •	*			0	55	no	1.04	_
128 PCB 188	HxCB	362 394	33.54 NotFnd	:	no •				0		no	1.069	_
	НрСВ	396	23.79	4070	no	4000							-
	НрСВ		24.09 24.07	1976 2308	0.86 no	4283	0.00612		0	85 54	no	1.122	-
130 PCB 184	НрСВ	394 396	NotFnd 24.55	:	no .	•			0		no	1.054	-
131 PCB 176		394	NotFnd 24.86	:	no	*			0		no	1.032	-
132 PCB 186		394	NotFnd	•	*	•			0		no	0.965	-
133 PCB 178	НрСВ	394	25,26 NotFnd	:	no *	•			0		no	0.77	
134 PCB 175	НрСВ	396 394	26.54 NotFnd	*	no *				0				
	НрСВ	396	27.14	*	no 0.00	4000	0.000427				no	0.803	-
	НрСВ	394 396	27.40 27.37	8649 9715	0.89 no	18364	0.036165		0	370 208	no	0.814	-
136 PCB 182	НрСВ	394 396	NotFnd 27.59	:	no	*			0		no	0.797	-
137 PCB 183		394	NotFnd	•	•	•			0.002		no	1.01	-
138 PCB 185	•	394	27.99 NotFnd	•	no +	•			0.003		no	0.813	-
139 PCB 174	НрСВ	396 394	28.08 NotFnd	•	no •				0.002		no	0.901	
	НрСВ		28.24 28.65	+ 2961	no 1.03	5841	0.010666			10			
	НрСВ	396	28.65	2880	1.03 yes	5841	0.010000		0.002	10 4 3	no	0.878	•
141 PCB 181	НрСВ	394 396	NotFnd 29.06	*	no	•			0.002		no	0.887	-
142 PCB 171/173		394	NotFnd 29.28		no no	•			0.002		no	0.854	-
143 PCB 172	•	394	NotFnd		*	•		3	0.002		no	0.869	-
144 PCB 192	НрСВ	396 394	30.93 NotFnd		no *				0.002		no	1.06	-

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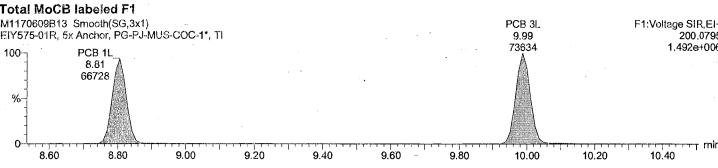
145 PCB 193/180	НрСВ 396 394	31.24 31.59	6118	no 1.15	11453	0.016846	0.002	19	***	1.172	
	HpCB 396	31.59	5336	yes	11400	0.010040		70	no		. •
146 PCB 191	394 HpCB 396	NotFnd 31.97	•	no			0.002		no	1.186	-
147 PCB 170	394 HpCB 396	NotFnd 32,92	:	no	•		0.002		no	1.171	-
148 PCB 190	394 HpCB 396	NotFnd 33.48	•	, no	•		0.002		no	1.165	-
149 PCB 189	394 HpCB 396	NotFnd 36.32	*	no	•		0		no	0.922	-
150 PCB 202	428	28.77	1970	1	3940	0.006506	0	77	no	1.031	
151 PCB 201	OcCB 430 428	28.76 29.72	1969 716	yes 0.76	1662	0.002458	0	40 23	yes	1.078	
152 PCB 204	OcCB 430 428	29.68 NotFnd	946	no •			0	29	no	1.06	
153 PCB 197	OcCB 430 428	30.37 NotFnd	1111111 1	no •			0		no	1.082	
154 PCB 200	OcCB 430 428	30.60 NotFnd	•	no •	. I L		0		no	1.016	
155 PCB 198/199	OcCB 430 428	30,72 NotFnd		no •			0.001				
	OcCB 430	33.65		no					no	0.777	
156 PCB 196	428 OcCB 430	NotFnd 34.39		no			0.001		no	0.819	11.5
157 PCB 203	428 OcCB 430	34. 60 34.58	757 804	0.94 yes	1561	0.003017	0.001	21 16	yes	0.825	
158 PCB 195	428 OcCB 430	NotFnd 36,03		no			0		no	0.931	
159 PCB 194	428 OcCB 430	38.65 38.65	608 806	0.75 no	1414	0.002343	Ò	11	yes	0.962	
160 PCB 205	428 OcCB 430	NotFnd 39.20	•				0	v	no :	0.992	
161 PCB 208	462	NotFnd		no •	HVIII WIII	Aèrilli anni in in in	0.001		no	1.042	kilisterii:
162 PCB 207	NoCB 464 462	35.79 NotFnd	•	no *			0.001		no	1.302	_
163 PCB 206	NoCB 464 462	36.82 NotFnd	•	no *	•		0.002		no	1.017	_
164 PCB 209	NoCB 464 498	41.17 NotFnd	*	no *			0		no	1.026	
165 PCB 1L	DCB 500 200	43.06 8.81	66728	no 2.96	89259	0.087648	0.004	747	no	0.997	44
166 PCB 3L	202 200	8.82	22531	yes				29			
	202	9.99 9.99	73634 23402	3.15 yes	97036	0.090463	0.003	799 28	no	1.05	45
167 PCB 4L	234 236	10.10 10.10	27701 18924	1.46 yes	46624	0.098303	0.004	89 237	no	0.464	49
168 PCB 15L	234 236	12.68 12.69	92202 58382	1.58 yes	150584	0.126249	0.003	94 458	no	1.168	63
169 PCB 19L	268 270	11.46 11.47	32618 32159	1.01 yes	64776	0.118362	0.005	58 90	no	0.536	59
170 PCB 37L	268 270	16.33 16.33	84612 85226	0,99	169838	0.165093	0.004	98 127	no	1.848	83
171 PCB 54L	302	12.82	30764	yes 0.91	64536	0.144518	0.001	213	по	0.802	73
172 PCB 81L	304 302	12.81 20.9 7	33772 7 5632	no 0.81	168990	0.190017	0.001	460 363	no	1.597	95
173 PCB 77L	304 302	20.95 21.41	93358 7 8276	yes 0.83	172489	0.192778	0.001	415 371	no	1.607	97
174 PCB 104L	304 338	21.40 15.60	94213 52759	yes 1.56	86476	0.182972	0	407 2941	no	0.912	92
175 PCB 123L	340 338	15.64 23.04	33717 99724	yes 1.49	166452	0.203084	0.001	1374 688	no	1.581	102
176 PCB 118L	340 338	23.02 23.31	66727 99450	yes 1.58	162443	0.207541	0.001	798 691		1.51	104
	340	23.31	62993	yes				763	no		
177 PCB 114L	338 340	23.78 23.78	98310 61866	1.59 yes	160177	0.210014	0.001	668 725	no	1.471	105
178 PCB 105L	338 340	24.33 2 4 .34	99801 58610	1.7 yes	158411	0.205294	0.001	683 648	по	1.488	103
179 PCB 126L	338 340	27.17 2 7 .15	81470 51621	1.58 yes	133091	0.178194	0.001	519 565	no	1.44	89
180 PCB 155L	372 374	19.22 19.25	57483 47750	1.2 yes	105233	0.191549	0	4723 3528	no	1.01	96
181 PCB 167L	372 374	28.99 28.98	86247 66422	1.3 yes	152668	0.197156	0.001	533 673	no	1.424	99
182 PCB 156L/157L	372 374	30.14 30.12	178302 137450	1.3	315751	0.388515	0.001	883	no	1.495	97
183 PCB 169L	372	33.51	47759	yes 1.41	81534	0.098791	0.001	1152 268	no	1.518	50
184 PCB 188L	374 40 6	33.52 23.76	33775 62610	yes 1.1	119324	0.192079	0	313 2231	no	1,142	96
185 PCB 180L	408 406	23.76 31.59	56714 60789	yes 1.11	115672	0.191836	0.001	1071 757	no	1.343	96
186 PCB 170L	408 406	31.56 32.89	54883 48414	yes 1	96626	0.188523	0.001	1706 636	no	1.141	95
187 PCB 189L	408 406	32.87 36.29	48212 81609	yes 0.97	165792	0.191987	0.001	1531 282	no	1,923	96
188 PCB 202L	408	36.27	84183	yes				908	-		
	440 442	28.74 28.74	55721 61363	0.91 yes	117104	0.192751	0	1697 1407	no	1.353	97
189 PCB 205L	440 442	39,16 39.17	62389 70602	0.88 yes	132992	0.207989	0.001	677 959	no	1.424	104
190 PCB 208L	474 476	35.75 35.77	4843 7 64860	0.75 yes	113296	0.192692	0.001	1323 477	no	1.309	97
191 PCB 206L	474 476	41.17 41.18	37746 47570	0.79 yes	85316	0.205723	0.001	975 356	no	0.924	103
192 PCB 209L	510 512	43.02 43.03	42917 36562	1.17 yes	79480	0.213673	0	1851	no	0.828	107
193 PCB 28L	268	14.11	98810	1.05	192662	0.175746	0.004	1566 127	no	1.969	79
PCB Cleanup Sta	ndard 2/0	14.12	93652	yes				156			

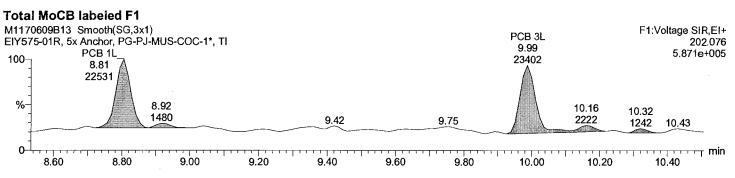
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19-	FCB 111L	338	21.41	98310	1.65	157909	0.221828	0	1540	no	1.373	100
	PCB Cleanup Standard	340	21.40	59599	yes				2844			
19	5 PCB 178L	406	26.50	45770	1.04	89908	0.22578	0.001	1602	no	0.732	102
	PCB Cleanup Standard	408	26.50	44138	yes				834			
190	PCB 31L	268	NotFnd	•	´•	•		0.004		no	1.878	
	PCB Audit Standard	270	13.97	•	no							
197	PCB 95L	338	NotFnd		*	*		0.001		no	0.916	
	PCB Audit Standard	340	17.38	*	no						5.5.5	
198	PCB 153L	372	24.94	1865	1.64	3006	0.004714	0	74	no	1.173	2
	PCB Audit Standard	374	24.96	1141	no			•	16			_
199	PCB 9L	234	10.99	692093	1.58	1130706	2.797419	_	764	no	-	-
	PCB Recovery Standard		11.00	438613	yes				3667			
200		302	15.05	264638	0.75	616491	2.743257	_	1413	по	_	_
	PCB Recovery Standard	304	15.05	351853	yes				2996			
201		338	19.38	356938	1.64	574114	2.812909	-	5654	no	_	
	PCB Recovery Standard	340	19.36	217176	yes				10796	110		
202		372	26.08	338711	1.29	602072	2.893738		12541	no	_	_
	PCB Recovery Standard		26.07	263361	yes	0020,2			3420	110		
203		440	38.63	234488	0.89	497230	2.653593		2595	no	_	_
	PCB Recovery Standard		38.59	262742	Vee				3520	1,0		

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Quantify Samp Acquired Date	ole Report MassLynx 4.0 SP1			Page 70 of 92
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Last Altered: Printed:	June 12, 2017 4:06:03 PM Eastern Dayligh June 13, 2017 5:47:14 AM Eastern Dayligh		owy	
Description: E Vial: 13 Date: 10-Jun-2 Time: 04:43:13 Instrument:	017			
Total MoCB F1 M1170609B13 Sm ElY575-01R, 5x Ar				F1:Voltage SIR,EI+ 188.0393
8.60	8.82 9.00 9.10 9.31 9.38 9.40	-	9.90 10.00 10.14 80 10.00 10.2	3.451e+003 10.35 0.23 0.23 min
Fotal MoCB F1 M1170609B13 Sm ElY575-01R, 5x An	ooth(SG,3x1) chor, PG-PJ-MUS-COC-1*, TI			F1:Voltage SIR,EI+ 190.0363
8.53	8.82 8.74 8.97 9.06 9.14 9.249.30 9.43	9.53	9.94 10.00	10.44
8.60	8.80 9.00 9.20 9.40	9.60 9.	80 10.00 10.2	20 - 10.40
Fotal MoCB lat M1170609B13 Sm EIY575-01R, 5x An			PCB 3L 9.99	F1:Voltage SIR,EI+ 200.0795
† 8	CB 1L_ 5.81		73634	1.492e+006





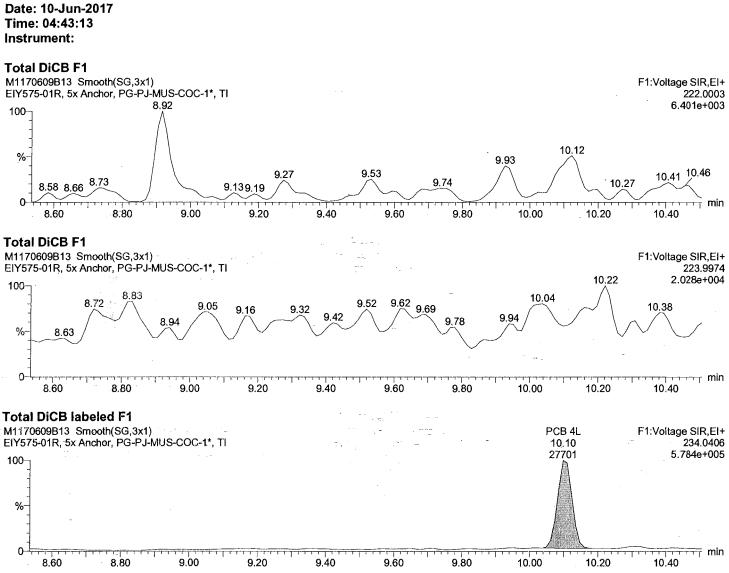
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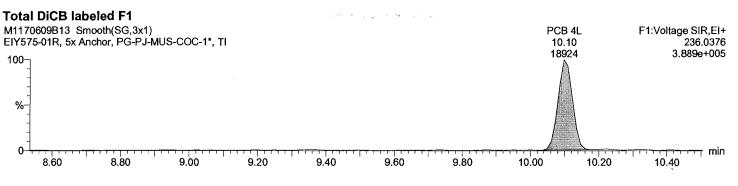
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June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY575-01R, 5x

Vial: 13





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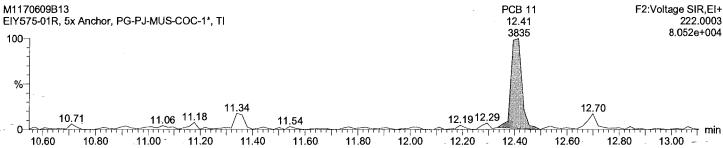
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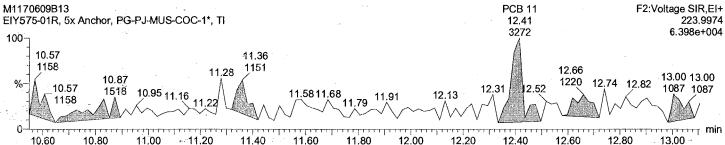
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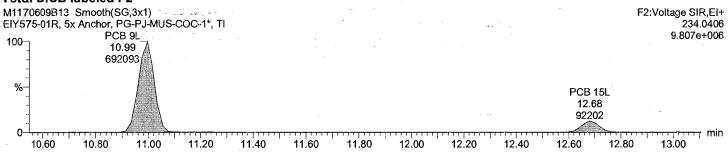




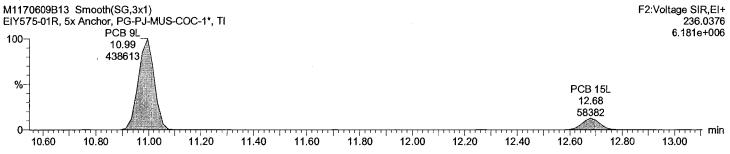
Total DiCB F2



Total DiCB labeled F2



Total DiCB labeled F2



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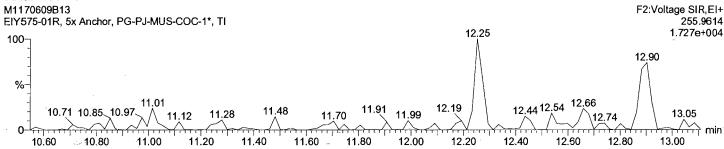
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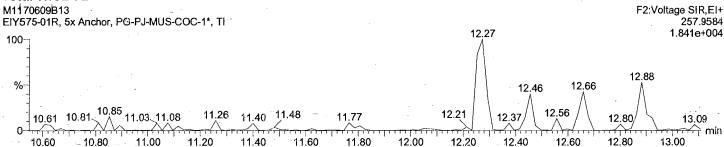
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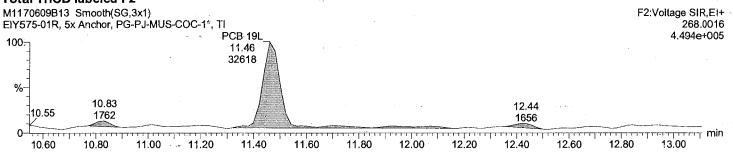
Total TriCB F2



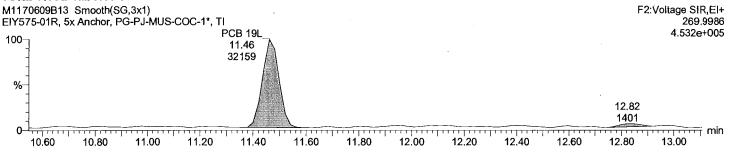
Total TriCB F2



Total TriCB labeled F2



Total TriCB labeled F2



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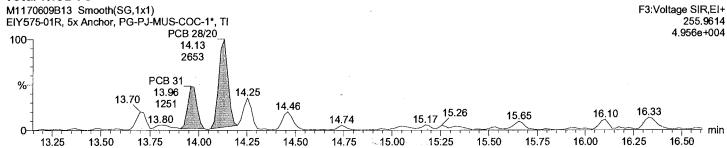
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Vial: 13

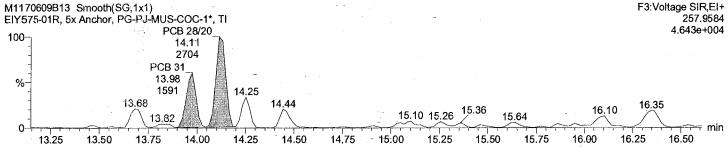
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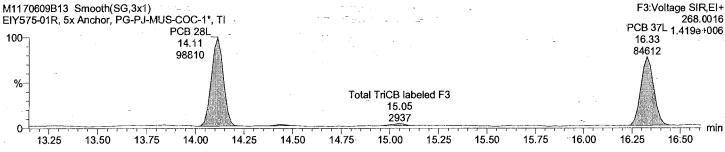
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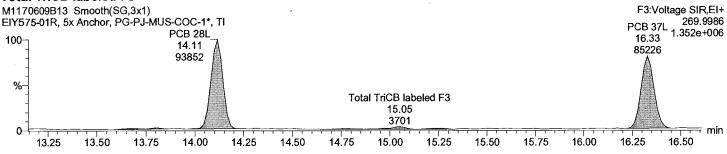
Total TriCB F3



Total TriCB labeled F3



Total TriCB labeled F3



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June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY575-01R, 5x

Vial: 13

Date: 10-Jun-2017 Time: 04:43:13 Instrument:

Total TeCB F2

M1170609B13 Smooth(SG,3x1) F2:Voltage SIR,EI+ EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI 289.9224 1.005e+003 100-11.54 11,85 11,95 % 10.57 11.66 10.75 11.01 11.42 12.90 12.27 12.48 -0 ¬¬− min

11.80

12.00

12.20

Total TeCB F2

10.60

10.80

11.00

11.20

11.40

11.60

M1170609B13 Smooth(SG,3x1) F2:Voltage SIR,EI+ EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI 291.9194 1.999e+003 12.54 12.01 100 11.01 12.88 11.16 12.68 12.33 11,38 11,46 % 10.75 11.89 10.55 13.02 📆 min 10.60 10.80 11.00 11.20 11.40 11.60 11.80 12.00 12,20 12.40 12.60 12.80 13.00

Total TeCB labeled F2

M1170609B13 Smooth(SG,3x1) F2:Voltage SIR,EI+ EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI 301.9626 PCB 54L 4.070e+005 100 12.82 30764 % ⊤ min 12.40 12.80 11.40 12.60 13.00 10.60 10.80 11.00 11.20 11.60 11.80 12.00 12,20

Total TeCB labeled F2

F2:Voltage SIR,EI+ M1170609B13 Smooth(SG,3x1) EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI 303.9597 4.346e+005 PCB 54L 100 12.82 33772 % min T 11.40 11.80 12.60 12.80 10.80 11.00 11.20 11.60 12.00 12.20 12.40 13.00 10.60

12.60

12.80

13.00

12.40

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June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

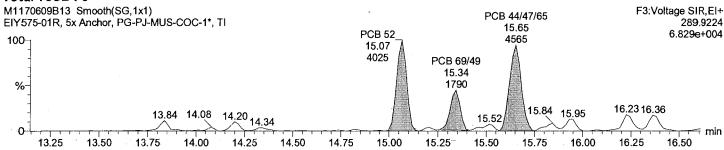
Description: EIY575-01R, 5x

Vial: 13

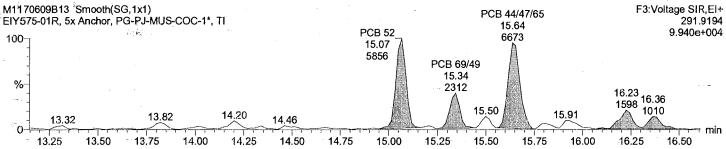
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Date: 10-Jun-2017 Time: 04:43:13 Instrument:

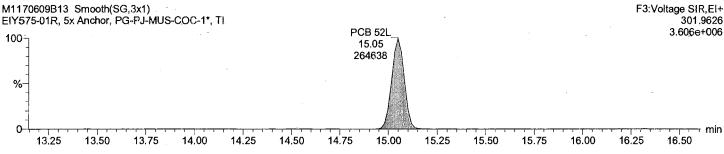
Total TeCB F3

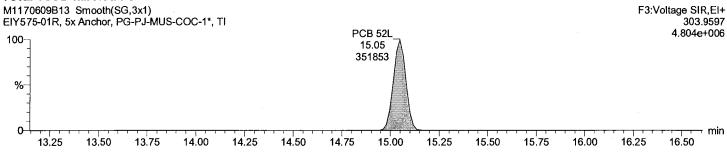


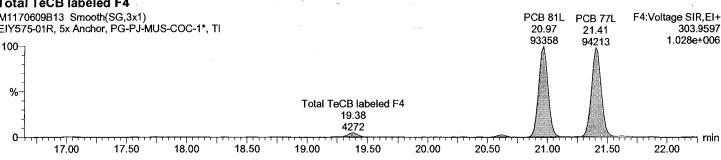




Total TeCB labeled F3







F3:Voltage SIR,EI+

Dataset:

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June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

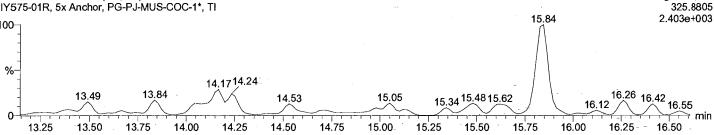
Description: EIY575-01R, 5x

Vial: 13

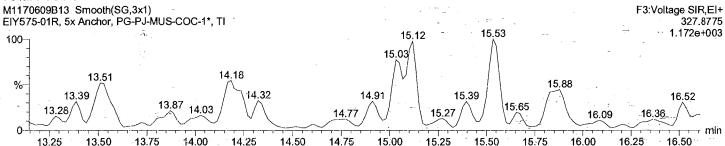
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Total PeCB F3

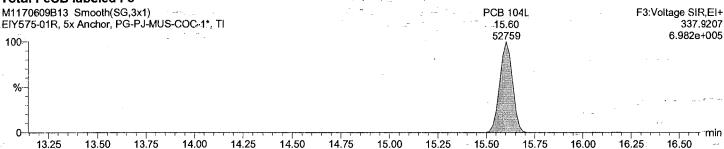
M1170609B13 Smooth(SG,3x1) EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI 100



Total PeCB F3







15.00

15.50

15.75

16.00

16.25

16.50

14.75

14.50

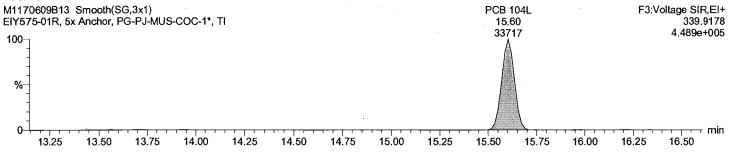
Total PeCB labeled F3

13.25

13.50

13.75

14.00



C:\MassLynx\Default.pro\QLD\M1170609B dil 1668A.qld

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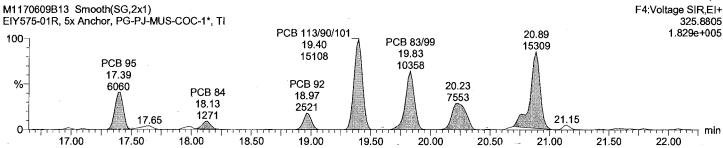
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY575-01R, 5x

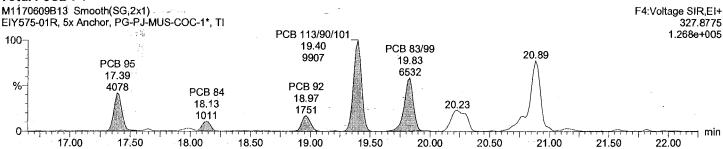
Vial: 13

Date: 10-Jun-2017 Time: 04:43:13 Instrument:

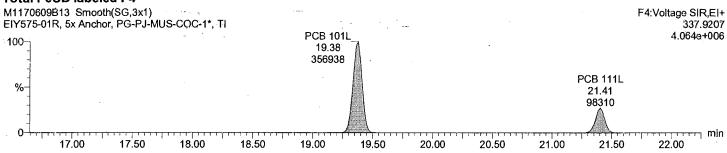


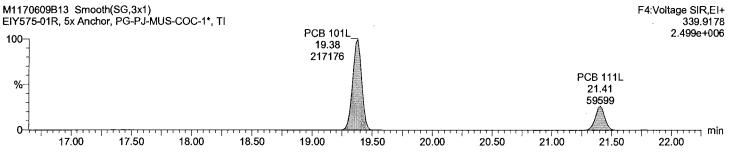






Total PeCB labeled F4





iset: C:\MassLynx\Default.pro\QLD\M1170609B dil 1668A.qld

Last Altered: Printed:

'Acquired Date

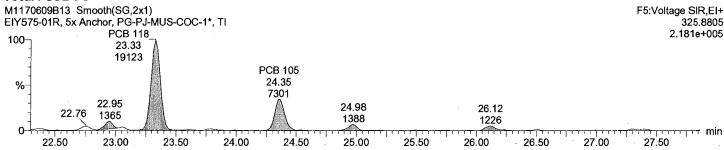
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY575-01R, 5x

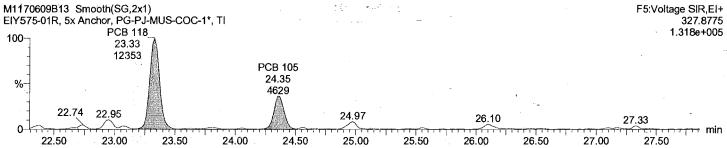
Vial: 13

Date: 10-Jun-2017 Time: 04:43:13 Instrument:

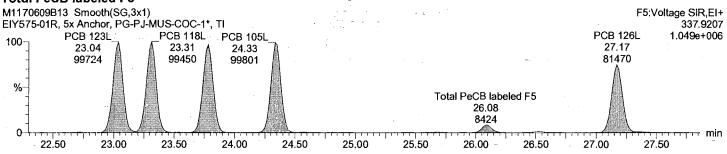
Total PeCB F5

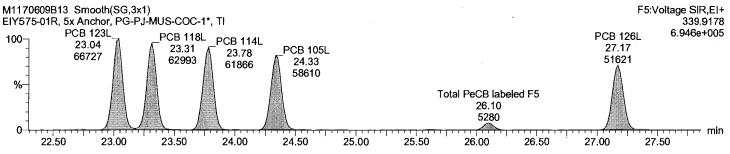


Total PeCB F5



Total PeCB labeled F5





22.00

21.50

Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY575-01R, 5x

Vial: 13

Date: 10-Jun-2017 Time: 04:43:13 Instrument:

Total HxCB F4

M1170609B13 Smooth(SG,3x1)
EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI

100
PCB 136
19.78
1435

22.08

19.50

20.00

20.50

21.00

Total HxCB F4

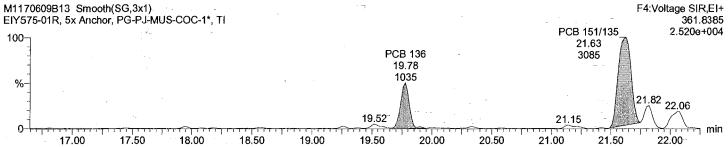
17.00

17.50

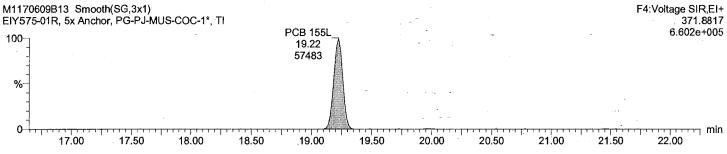
18.00

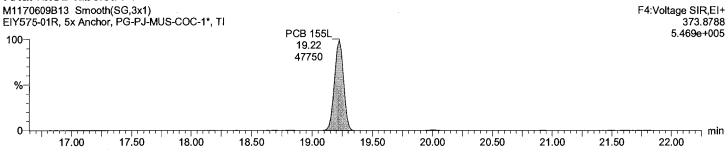
18.50

19.00



Total HxCB labeled F4





C:\MassLynx\Default.pro\QLD\M1170609B dil 1668A.qld

Last Altered: Printed:

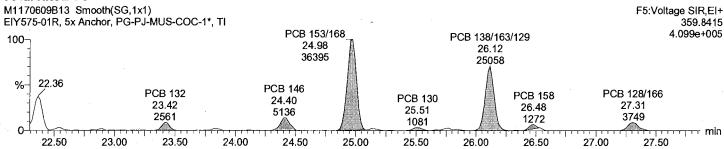
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY575-01R, 5x

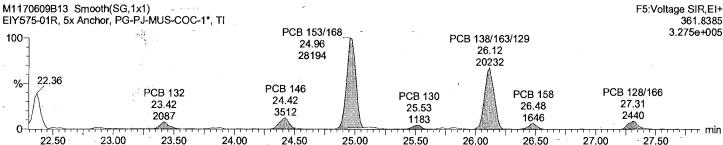
Vial: 13

Date: 10-Jun-2017 Time: 04:43:13 Instrument:

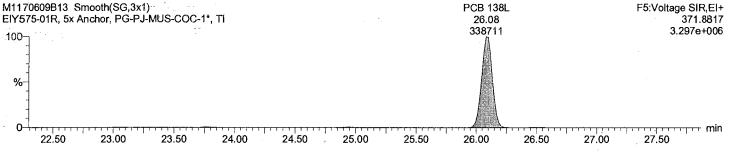
Total HxCB F5

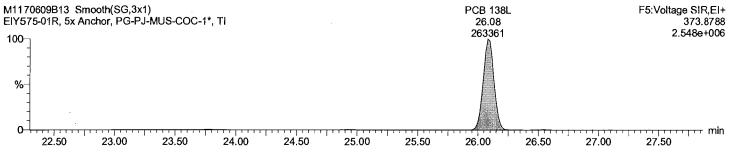


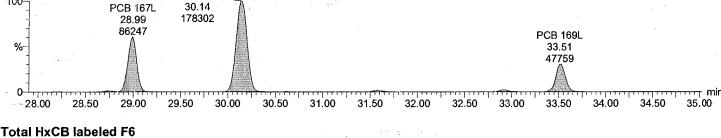












M1170609B13 Smooth(SG,3x1) F6:Voltage SIR,EI+ EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI 373.8788 1.042e+006 PCB 156L/157L 100 30.15 **PCB 167L** 137450 28.99 66422 PCB 169L % 33.53 33775 □ min 28.50 29.00 29.50 30.00 30.50 31.00 31.50 32.00 32.50 33.00 33.50 34.00 34.50 35.00 28.00

Acquired Date

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

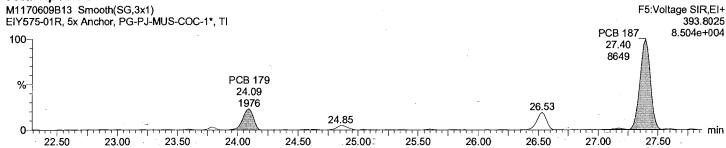
Description: EIY575-01R, 5x

23.00

Vial: 13

Date: 10-Jun-2017 Time: 04:43:13 Instrument:

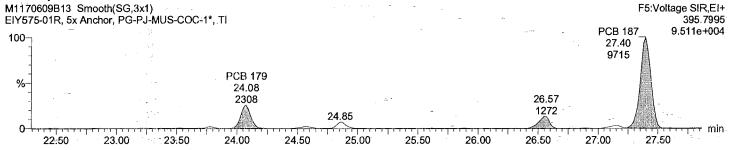
Total HpCB F5



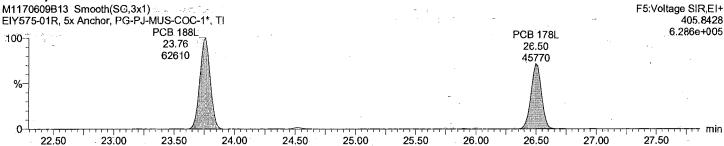
26.00

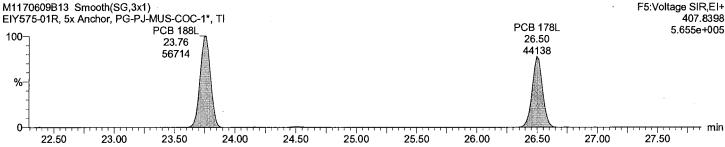
Total HpCB F5

E.S.



Total HpCB labeled F5





Acquired Date

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed: June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY575-01R, 5x

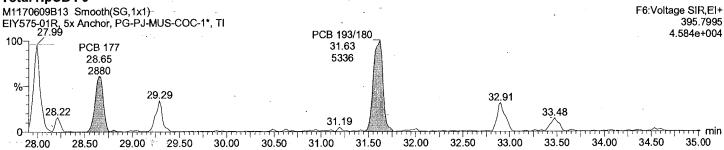
Vial: 13

Date: 10-Jun-2017 Time: 04:43:13 Instrument:



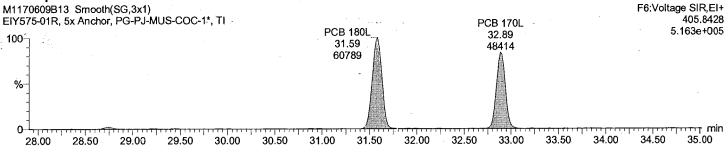
M1170609B13 Smooth(SG,1x1) F6:Voltage SIR,EI+ EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI 393.8025 5.804e+004 PCB 193/180 31.59 PCB 177 27.99 6118 28.65 2961 % 32.92 29.31 29.50 33.44 28.20 29.05 30.93 31.30 r∩ a min 31.50 33.00 33.50 34.00 34.50 35.00 28.00 28.50 29.00 29.50 30.00 30.50 31.00 32.00 32.50

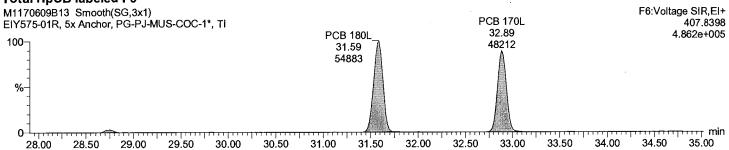
Total HpCB F6



Total HpCB labeled F6

7.0 2.0





Acquired Date

Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

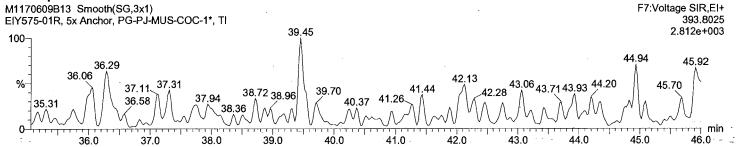
Description: EIY575-01R, 5x

Vial: 13

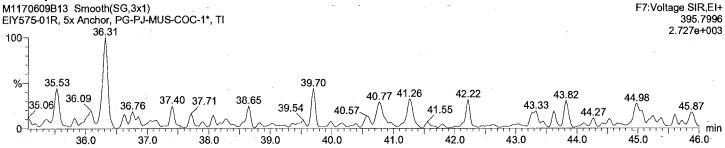
Printed:

Date: 10-Jun-2017 Time: 04:43:13 Instrument:

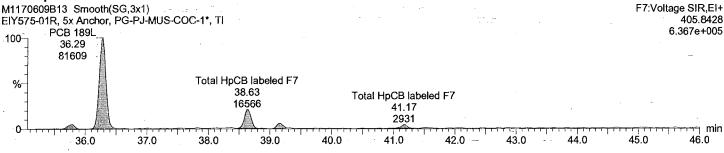




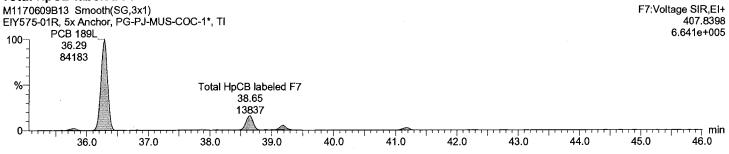
Total HpCB F7



Total HpCB labeled F7



Total HpCB labeled F7



28.50

29.00

29.50

30.00

30.50

31.00

31.50

32.00

32.50

28.00

34.50

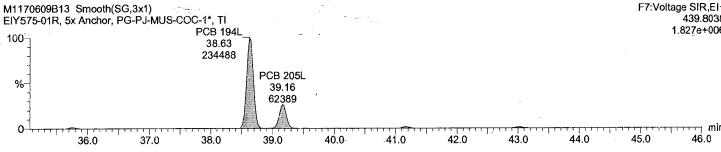
35.00

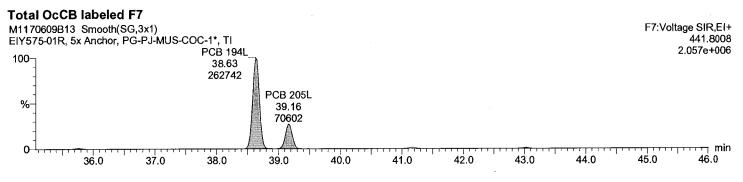
33.50

33.00

34.00

Quantify Sample Report Page 88 of 92 MassLynx 4.0 SP1 **Acquired Date** C:\MassLynx\Default.pro\QLD\M1170609B dil 1668A.qld Dataset: June 12, 2017 4:06:03 PM Eastern Daylight Time Last Altered: Printed: June 13, 2017 5:47:14 AM Eastern Daylight Time Description: EIY575-01R, 5x Vial: 13 Date: 10-Jun-2017 Time: 04:43:13 Instrument: h=4,648 E2 **Total OcCB F7** F7:Voltage SIR,EI+ M1170609B13 Smooth(SG,3x1) 427.7635 EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI 4.543e+003 **PCB 194** 100 38.65 608 % 41.24 35.15 39.19 41.99 36.00_36.13 44.11 44.6945.12 40.39 37.04 45.81 43.02 43.49 42.42 36.42 38.34 39.74 45.43/\/ min 43.0 46.0 38.0 39.0 40.0 44.0 45.0 36.0 37.0 41.0 42.0 **Total OccB F7** F7:Voltage SIR,EI+ M1170609B13 Smooth(SG,3x1) EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI 429.7606 6.994e+003 PCB 194 100 38.65 806 0/0 43.15 43.29 44.31 44.56 44.71 45.47 41.2841.70 41.99 39.72 40.26 36.04 36.55 38.94 36.93 37.83 42.62 🦳 min 37.0 38.0 39.0 40.0 41.0 42.0 43.0 44.0 45.0 46.0 36.0 **Total OccB labeled F7** F7:Voltage SIR,EI+ 439.8038 **PCB 194L** 1.827e+006 100 38.63 234488 PCB 205L % 39.16 62389 ⊣ min





min 46.0

Acquired Date Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY575-01R, 5x

36.0

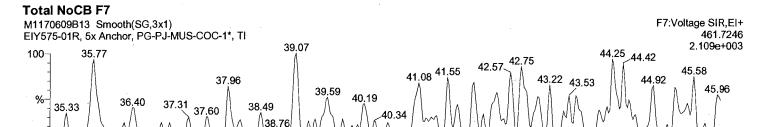
37:0

38.0

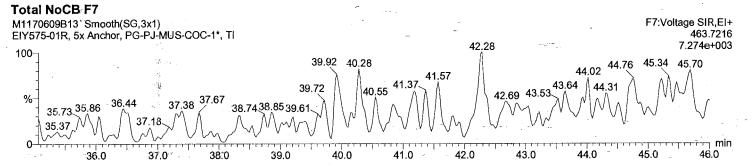
39.0

Vial: 13

Date: 10-Jun-2017 Time: 04:43:13 Instrument:



40.0



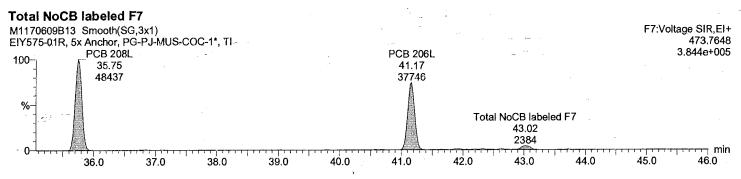
41.0

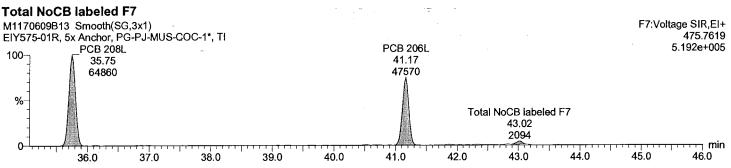
42.0

43.0

44.0

45.0





F7:Voltage SIR,EI+

F7:Voltage SIR,EI+

497.6826

4.009e+003

Acquired Date

Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

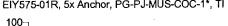
Description: EIY575-01R, 5x

Vial: 13

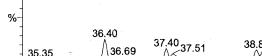
Date: 10-Jun-2017 Time: 04:43:13 Instrument:



M1170609B13 Smooth(SG,3x1) EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI



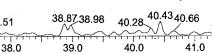




37.0

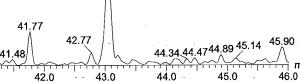
37.0

37.0



40.0

40.0



43,04

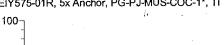
Total DeCB F7

35,35

0

M1170609B13 Smooth(SG,3x1) EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI

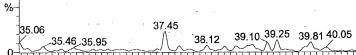
36.0





41.0

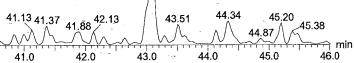




38.0

39.0

39.0



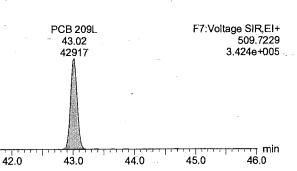
Total DeCB labeled F7

36.0

M1170609B13 Smooth(SG,3x1) EIY575-01R, 5x Anchor, PG-PJ-MUS-COC-1*, TI



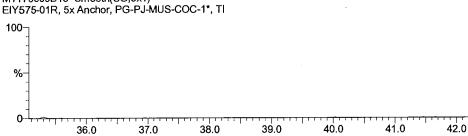
38.0

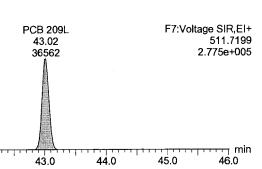


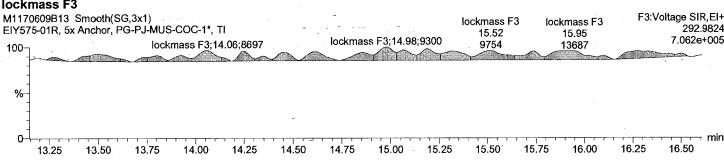
Total DeCB labeled F7

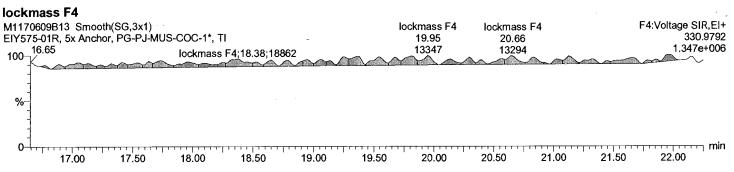
36.0

M1170609B13 Smooth(SG,3x1)









Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

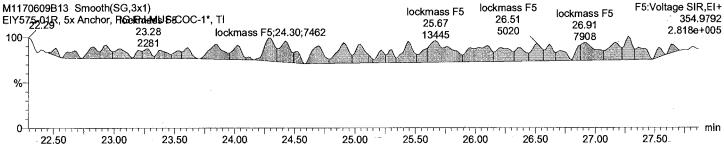
June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Description: EIY575-01R, 5x

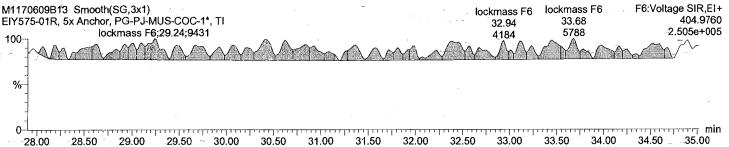
Vial: 13

Date: 10-Jun-2017 Time: 04:43:13 Instrument:

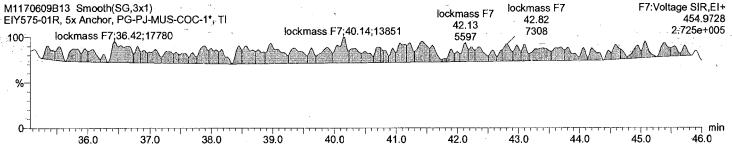




lockmass F6



lockmass F7



Quantify Audit Report

MassLynx 4.0 SP1

Acquired Date

Dataset:

C:\MassLynx\Default.pro\QLD\M1170609B_dil_1668A.qld

Last Altered: Printed:

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June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Date	Time	Event	RT	Details	Comments
13-Jun-17	05:31:50	Dataset Saved	·,···	Saved to 'C:\MassLynx\Default.pro\QLD\M11706	
12-Jun-17	15:57:50	Peak added	28.804	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	15:57:50	Peak added	28.804	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	15:59:06	Peak added	33.667	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	15:59:06	Peak added	34.584	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	15:59:06	Peak added	34.411	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	15:59:06	Peak added	33.667	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	15:59:06	Peak added	34.636	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	15:59:06	Peak added	34.394	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	15:59:38	Peak added	38.673	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	15:59:38	Peak added	38.651	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	16:00:00	Peak added	36.042	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	16:00:00	Peak added	36.042	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	16:00:11	Peak modified	36.042	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	16:00:21	Peak modified	36.042	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	16:00:21	Peak modified:	36.042	Sample:M1170609B10, Compound:Total OcCB	M1MT
12-Jun-17	16:00:53	Peak added	28,804	Sample:M1170609B11, Compound:Total OcCB	M1MT
12-Jun-17	16:00:53	Peak added	28.787	Sample:M1170609B11, Compound:Total OcCB	M1MT
12-Jun-17⊸	16:01:10	Pre modification peak	33,701	Sample:M1170609B11, Compound:Total OcCB	
12-Jun-17	16:01:10	Peak modified	33.702	Sample:M1170609B11, Compound:Total OcCB	мзмт
12-Jun-17	16:01:47	Peak added	34.394	Sample:M1170609B11, Compound:Total OcCB	M1MT
12-Jun-17	16:01:47	Peak added	34.601	Sample:M1170609B11, Compound:Total OcCB	M1MT
12-Jun-17	16:01:47	Peak added	34,411	Sample:M1170609B11, Compound:Total OcCB	M1MT
12-Jun-17	16:01:47	Peak added	34.636	Sample:M1170609B11, Compound:Total OcCB	M1MT
12-Jun-17	16:02:05	Pre modification peak	38.673	Sample:M1170609B11, Compound:Total OcCB	
12-Jun-17	16:02:05	Peak modified	38.673	Sample:M1170609B11, Compound:Total OcCB	
12-Jun-17	16:02:05	Peak added	38.651	Sample:M1170609B11, Compound:Total OcCB	= , -
12-Jun-17	16:02:16	Peak added	36.042	Sample:M1170609B11, Compound:Total OcCB	M1MT
12-Jun-17	16:02:16	Peak added	36,042	Sample:M1170609B11, Compound:Total OcCB	M1MT
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12-Jun-17	16:02:49	Peak added	38.651	Sample:M1170609B12, Compound:Total OcCB	M1MT.
12-Jun-17	16:02:49	Peak added	36.042	Sample:M1170609B12, Compound:Total OcCB	M1MT
12-Jun-17	16:02:49	Peak added	39.208	Sample:M1170609B12, Compound:Total OcCB	M1MT
12-Jun-17	16:02:49	Peak added	38.717	Sample:M1170609B12, Compound:Total OcCB	⊶ M1MT
12-Jun-17	16:03:02	Peak modified	39.208	Sample:M1170609B12, Compound:Total OcCB	M1MT
12-Jun-17	16:03:23	Peak added	29.721	Sample:M1170609B12, Compound:Total OcCB	M1MT
12-Jun-17	16:03:23	Peak added	29.721	Sample:M1170609B12, Compound:Total OcCB	M1MT
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12-Jun-17	16:03:43	Peak modified	29.721	Sample:M1170609B12, Compound:Total OcCB	M1MT
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12-Jun-17	16:04:06	Peak added	28.787	Sample:M1170609B12, Compound:Total OcCB	M1MT
12-Jun-17	16:04:44	Peak added	30.621	Sample:M1170609B12, Compound:Total OcCB	M1MT
12-Jun-17	16:04:44	Peak added	30.639	Sample:M1170609B12, Compound:Total OcCB	M1MT
12-Jun-17	16:04:44	Peak added	30.639	Sample:M1170609B12, Compound:Total OcCB	M1MT
12-Jun-17	16:04:44	Peak added	30.673	Sample:M1170609B12, Compound:Total OcCB	M1MT
12-Jun-17	16:05:01	Peak added	33.702	Sample:M1170609B12, Compound:Total OcCB	M1MT
12-Jun-17	16:05:28	Peak added	29.704	Sample:M1170609B13, Compound:Total OcCB	M1MT
12-Jun-17	16:05:28	Peak added	34.584	Sample:M1170609B13, Compound:Total OcCB	M1MT
12-Jun-17	16:05:28	Peak added	29.721	Sample:M1170609B13, Compound:Total OcCB	M1MT
12-Jun-17	16:05:28	Peak added	34.601	Sample:M1170609B13, Compound:Total OcCB	M1MT
12-Jun-17	16:05:55	Peak added	38.650	Sample:M1170609B13, Compound:Total OcCB	M1MT

Dataset:

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Last Altered: Printed:

June 12, 2017 4:06:03 PM Eastern Daylight Time June 13, 2017 5:47:14 AM Eastern Daylight Time

Date	Time	Event	RT	Details	Comments
12-Jun-17	16:05:55	Peak added	38.650	Sample:M1170609B13, Compound:Total OcCB	M1MT
12-Jun-17	16:06:01	Peak modified	38.650	Sample:M1170609B13, Compound:Total OcCB	M1MT
12-Jun-17	16:06:09	Dataset Saved		Saved to 'C:\MassLynx\Default.pro\QLD\M11706	
10-Jun-17	07:59:10	Process Integrate			
10-Jun-17	07:59:11	Process Quantify			
10-Jun-17	07:59:11	Dataset Created		2	
10-Jun-17	07:59:37	Dataset Saved		Saved to 'C:\MassLynx\Default.pro\QLD_PCB\M	
10-Jun-17	07:59:55	Peak added	31.608	Sample:M1170609B04, Compound:Total HpCB I	
10-Jun-17	08:00:03	Peak added	26.100	Sample:M1170609B05, Compound:Total HxCB I	
10-Jun-17	08:00:10	Peak added	26.515	Sample:M1170609B05, Compound:Total HpCB I	
10-Jun-17	08:00:58	Peak added	41.170	Sample:M1170609B09, Compound:Total NoCB I	
10-Jun-17	08:01:14	Peak added	32.905	Sample:M1170609B10, Compound:Total HpCB I	
10-Jun-17	08:01:22	Peak added	28.994	Sample:M1170609B10, Compound:Total HxCB I	
10-Jun-17	08:01:48	Peak added	30.154	Sample:M1170609B11, Compound:Total HxCB I	
10-Jun-17	08:02:00	Peak added	32.905	Sample:M1170609B11, Compound:Total HpCB I	
10-Jun-17	08:02:17	Pre modification peak	8.818	Sample:M1170609B11, Compound:Total MoCB I	
.10-Jun-17	08:02:17	Peak modified	8.818	Sample:M1170609B11, Compound:Total MoCB I	
10-Jun-17	08:02:29	Peak added	31.590	Sample:M1170609B12, Compound:Total HpCB I	
-1.0-Jun-17	08:02:38	Peak added	32.888	Sample:M1170609B13, Compound:Total HpCB I	
10-Jun-17	08:02:46	Peak added	30.154	Sample:M1170609B13, Compound:Total HxCB I	
10-Jun-17	08:04:29	Dataset Saved		Saved to 'C:\MassLynx\Default.pro\QLD_PCB\M	
10-Jun-17	08:04:35	Dataset Saved		Saved to 'C:\MassLynx\Default.pro\QLD_PCB\M	-



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

Maxxam Analytics Page 2579 of 2579

Appendix C Data Validation Reports

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 June 14, 2017

SUBJECT: Port Gamble, Shellfish Monitoring, Data Validation

Dear Ms. Fields,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on May 24, 2017. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #38777:

SDG #	<u>Fraction</u>
17D0421	Polynuclear Aromatic Hydrocarbons, Cadmium, Wet Chemistry, Polychlorinated Dioxins/Dibenzofurans

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 Program 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, update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink Project Manager/Chemist

Christma Rink

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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Port Gamble, Shellfish Monitoring

LDC Report Date:

June 13, 2017

Parameters:

Polynuclear Aromatic Hydrocarbons

Validation Level:

Stage 2B

Laboratory:

Analytical Resources, Inc.

Sample Delivery Group (SDG): 17D0421

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-GP-OYS-COC-170424	17D0421-01	Tissue	04/24/17
PG-GP-COC-COC-170424	17D0421-02	Tissue	04/24/17
PG-GP-LTN-COC-170424	17D0421-03	Tissue	04/24/17
PG-WS-OYS-COC-170424	17D0421-04	Tissue	04/24/17
PG-WS-COC-COC-170425	17D0421-05	Tissue	04/25/17
PG-WS-LTN-COC-170424	17D0421-06	Tissue	04/24/17
PG-WS-MAN-COC-170424	17D0421-07	Tissue	04/24/17
PG-SMA3-GEO-COC-170426	17D0421-08	Tissue	04/26/17
PG-SMA3-DUNM-COC-170426	17D0421-09	Tissue	04/26/17
PG-SMA3-DUNH-COC-170426	17D0421-10	Tissue	04/26/17

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.

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.

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.

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 Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 17D0421

No Sample Data Qualified in this SDG

Port Gamble, Shellfish Monitoring Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 17D0421

No Sample Data Qualified in this SDG

LDC #: 38777A2b	VALIDATION COMPLETENESS WORKSHEET	
SDG #:_17D0421	Stage 2B	
Laboratory: Analytical Resource	es Inc	

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
1.	Sample receipt/Technical holding times	A	
11.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	AIA	RSO < 20/0 101 = 38,
IV.	Continuing calibration	4	RSOX2010 101=380 CCV=207,
. V.	Laboratory Blanks	A	•
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N.	<u>C</u> S
IX.	Laboratory control samples	A	105
X	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	

Note:

A = Acceptable

N = Not provided/applicable

SW = See worksheet

ND = No compounds detected

FB = Field blank

R = Rinsate

D = Duplicate TB = Trip blank

EB = Equipment blank

SB=Source blank OTHER:

	Client ID	Lab ID	Matrix	Date
1	PG-GP-OYS-COC-070424	17D0421-01	Tissue	04/24/17
2	PG-GP-COC-COC-170424	17D0421-02	Tissue	04/24/17
3	PG-GP-LTN-COC-170424	17D0421-03	Tissue	04/24/17
4	PG-WS-OYS-COC-170424	17D0421-04	Tissue	04/24/17
5	PG-WS-COC-COC-170425	17D0421-05	Tissue	04/25/17
6	PG-WS-LTN-COC-170424	17D0421-06	Tissue	04/24/17
7:	PG-WS-MAN-COC-170424	17D0421-07	Tissue	04/24/17
8	PG-SMA3-GEO-COC-170426	17D0421-08	Tissue	04/26/17
9	PG-SMA3-DUNM-COC-170426	17D0421-09	Tissue	04/26/17
10	PG-SMA3-DUNH-COC-170426	17D0421-10	Tissue	04/26/17
11				
12	BFE0160-Bd/			
13				

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Port Gamble, Shellfish Monitoring

LDC Report Date:

June 12, 2017

Parameters:

Cadmium

Validation Level:

Stage 2B

Laboratory:

Analytical Resources, Inc.

Sample Delivery Group (SDG): 17D0421

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-GP-OYS-COC-170424	17D0421-01	Tissue	04/24/17
PG-GP-COC-COC-170424	17D0421-02	Tissue	04/24/17
PG-GP-LTN-COC-170424	17D0421-03	Tissue	04/24/17
PG-WS-OYS-COC-170424	17D0421-04	Tissue	04/24/17
PG-WS-COC-COC-170425	17D0421-05	Tissue	04/25/17
PG-WS-LTN-COC-170424	17D0421-06	Tissue	04/24/17
PG-WS-MAN-COC-170424	17D0421-07	Tissue	04/24/17
PG-SMA3-GEO-COC-170426	17D0421-08	Tissue	04/26/17
PG-SMA3-DUNM-COC-170426	17D0421-09	Tissue	04/26/17
PG-SMA3-DUNH-COC-170426	17D0421-10	Tissue	04/26/17
PG-SMA3-GEO-COC-170426MS	17D0421-08MS	Tissue	04/26/17
PG-SMA3-GEO-COC-170426DUP	17D0421-08DUP	Tissue	04/26/17

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 method.

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 with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Cadmium	0.0030 mg/Kg	All samples in SDG 17D0421
ICB/CCB	Cadmium	0.0004 mg/L	All samples in SDG 17D0421

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) 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 17D0421

No Sample Data Qualified in this SDG

Port Gamble, Shellfish Monitoring Cadmium - Laboratory Blank Data Qualification Summary - SDG 17D0421

No Sample Data Qualified in this SDG

-	17D0421 ory: <u>Analytical Resources, Inc.</u>	S	tage 2B			Page: 1 of 1 Reviewer: ATU Reviewer:
/IETHO	D: Cadmium (EPA SW 846 Method 60	10C)				
he san	nples listed below were reviewed for ea	ch of the fo	ollowing valid	dation areas Validation	on findings are	noted in attache
	on findings worksheets.				gc a	
	Volidation Augo	<u> </u>		0.000		
	Validation Area	AA	<u> </u>	Comm	ienis	<u> </u>
	Sample receipt/Technical holding times	1 17		<u> </u>		
	Instrument Calibration	A		· · · · · · · · · · · · · · · · · · ·	·	· · · · · · · · · · · · · · · · · · ·
	ICP Interference Check Sample (ICS) Analysis	1			<u> </u>	· · · · · · · · · · · · · · · · · · ·
	Laboratory Blanks	SW				· · · · · · · · · · · · · · · · · · ·
V.	Field Blanks	I /V				
VI.	Matrix Spike/Matrix Spike Duplicates	A		····		
VII.	Duplicate sample analysis	A				
VIII.	Serial Dilution	l N				
IX.	Laboratory control samples	A	LCS		·	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Х.	Field Duplicates	N_				·
XI.	Sample Result Verification	N		U-AVW/TEV/Paragraphy	·	
<u>l IIX</u>	Overall Assessment of Data	A			· · · · · · · · · · · · · · · · · · ·	
	N = Not provided/applicable R = Rin	o compound: sate eld blank	s detected	D = Duplicate TB = Trip blank EB = Equipment blar	OTHER	rce blank
CI	ient ID			Lab ID	Matrix	Date
1 PC	G-GP-OYS-COC- 0 70424			17D0421-01	Tissue	04/24/17
	G-GP-COC-COC-170424			17D0421-02	Tissue	04/24/17
	G-GP-LTN-COC-170424			17D0421-03	Tissue	04/24/17
	G-WS-OYS-COC-170424			17D0421-04	Tissue	04/24/17
	G-WS-COC-COC-170425			17D0421-05	Tissue	04/25/17
	G-WS-LTN-COC-170424			17D0421-06	Tissue	04/24/17
	G-WS-MAN-COC-170424	···	·	17D0421-07	Tissue	04/24/17
	G-SMA3-GEO-COC-170426			17D0421-08	Tissue	04/26/17
	G-SMA3-DUNM-COC-170426		·	17D0421-09	Tissue	04/26/17
	G-SMA3-DUNH-COC-170426			17D0421-10	Tissue	04/26/17
	G-SMA3-GEO-COC-170426MS	-		17D0421-08MS	Tissue	04/26/17
	5 CIVII (C. OLC - CO - 17 C-12 CIVIO	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	17 DO-72 1-001VIO	113345	0-7/20/1/
12 PC	G-SMA3-GEO-COC-170426DUP			17D0421-08DUP	Tissue	04/26/17

Notes:__

LDC #: 38777A4b

Cd

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

0.0004

Sample Concentration units, unless otherwise noted: mg/kg

VALIDATION FINDINGS WORKSHEET PB/ICB/CCB QUALIFIED SAMPLES

Soil preparation factor applied: 20x

Associated Samples:__All

Page: 1 of 1 Reviewer: ATL 2nd Reviewer:

Analyte Maximum Maximum Action Maximum ICB/CCB^a PB^a PBa Level (mg/Kg) (ug/L) (mg/L) 0.015 Cd 0.0030

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

0.04

0,0396

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Port Gamble, Shellfish Monitoring

LDC Report Date:

June 12, 2017

Parameters:

Wet Chemistry

Validation Level:

Stage 2B

Laboratory:

Analytical Resources, Inc.

Sample Delivery Group (SDG): 17D0421

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-GP-OYS-COC-170424	17D0421-01	Tissue	04/24/17
PG-GP-COC-COC-170424	17D0421-02	Tissue	04/24/17
PG-GP-LTN-COC-170424	17D0421-03	Tissue	04/24/17
PG-WS-OYS-COC-170424	17D0421-04	Tissue	04/24/17
PG-WS-COC-COC-170425	17D0421-05	Tissue	04/25/17
PG-WS-LTN-COC-170424	17D0421-06	Tissue	04/24/17
PG-WS-MAN-COC-170424	17D0421-07	Tissue	04/24/17
PG-SMA3-GEO-COC-170426	17D0421-08	Tissue	04/26/17
PG-SMA3-DUNM-COC-170426	17D0421-09	Tissue	04/26/17
PG-SMA3-DUNH-COC-170426	17D0421-10	Tissue	04/26/17
PG-SMA3-GEO-COC-170426DUP	17D0421-08DUP	Tissue	04/26/17

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 methods:

Percent Lipids by Bligh and Dyer Method Total Solids by Standard Method 2540G

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 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 with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	% Lipids	0.23 %	All samples in SDG 17D0421

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 with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
PG-GP-LTN-COC-170424	% Lipids	0.82 mg/L	0.82U mg/L
PG-WS-COC-COC-170425	% Lipids	0.9 mg/L	0.9U mg/L
PG-WS-LTN-COC-170424	% Lipids	0.68 mg/L	0.68U mg/L
PG-WS-MAN-COC-170424	% Lipids	0.70 mg/L	0.70U mg/L
PG-SMA3-DUNM-COC-170426	% Lipids	0.46 mg/L	0.46U mg/L

V. Field Blanks

No field blanks were identified in this SDG.

VI. 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.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were not required by the methods.

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.

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. Based upon the data validation all other results are considered valid and usable for all purposes.

Port Gamble, Shellfish Monitoring Wet Chemistry - Data Qualification Summary - SDG 17D0421

No Sample Data Qualified in this SDG

Port Gamble, Shellfish Monitoring Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 17D0421

Sample	Analyte	Modified Final Concentration	A or P
PG-GP-LTN-COC-170424	% Lipids	0.82U mg/L	Α
PG-WS-COC-COC-170425	% Lipids	0.9U mg/L	Α
PG-WS-LTN-COC-170424	% Lipids	0.68U mg/L	Α
PG-WS-MAN-COC-170424	% Lipids	0.70U mg/L	Α
PG-SMA3-DUNM-COC-170426	% Lipids	0.46U mg/L	Α

_DC#	#: 38777A6 VALIDATIO	N COMP	PLETENESS	S WORKSHEET		Date: 06/05/
	#: 17D0421		Stage 2B			Page: l of l
	atory: Analytical Resources, Inc.					Date: <u>06/05</u> Page: <u>l</u> of <u>l</u> Reviewer: <u>ATC</u>
					2nd	Reviewer:
NETH	IOD: (Analyte) Percent Lipids (Bligh & D	yre), Total	Solids (SM25	40G)		
	amples listed below were reviewed for ea tion findings worksheets.	ich of the f	ollowing valida	ition areas. Validatio	on findings are	noted in attached
			1			
	Validation Area	<u> </u>		Comm	nents	
l.	Sample receipt/Technical holding times	AIA				
II.	Initial calibration	N/			· · · · · · · · · · · · · · · · · · ·	
111.	Calibration verification	Ň			 	-
IV	Laboratory Blanks	SW				
V	Field blanks	1/	•	i e e e e e e e e e e e e e e e e e e e		
VI.	Matrix Spike/Matrix Spike Duplicates	1 1/				
VII.	Duplicate sample analysis	A		A A PANEL TO MINES AND A STATE OF THE STATE		·
VIII.	Laboratory control samples	1/			· · · · · · · · · · · · · · · · · · ·	· · ·
IX.	Field duplicates	\ \/\/\/\		· · · · · · · · · · · · · · · · · · ·	 	
<u> </u>	Sample result verification	N		i i i i i i i i i i i i i i i i i i i	<u> </u>	
XI	Overall assessment of data	A.				· · · · · · · · · · · · · · · · · · ·
			- dotootod	D - Dunlingto	CD-Cau	ree blank
lote:	N = Not provided/applicable R = Rir		s detected	D = Duplicate TB = Trip blank	OTHER	rce blank :
	SW = See worksheet FB = F	ield blank		EB = Equipment blar	ik	
	Client ID			Lab ID	Matrix	Date
1	PG-GP-OYS-COC- 9 70424			17D0421-01	Tissue	04/24/17
1	PG-GP-COC-COC-170424			17D0421-02	Tissue	04/24/17
	PG-GP-LTN-COC-170424			17D0421-03	Tissue	04/24/17
	PG-WS-OYS-COC-170424			17D0421-04	Tissue	04/24/17
	PG-WS-COC-COC-170425			17D0421-05	Tissue	04/25/17
	PG-WS-LTN-COC-170424			17D0421-06	Tissue	04/24/17
	PG-WS-MAN-COC-170424	· ·		17D0421-07	Tissue	04/24/17
	PG-SMA3-GEO-COC-170426			17D0421-08	Tissue	04/26/17
	PG-SMA3-DUNM-COC-170426	· ·	·	17D0421-09	Tissue	04/26/17
	PG-SMA3-DUNH-COC-170426	·	·-·	17D0421-10	Tissue	04/26/17
	PG-SMA3-GEO-COC-170426DUP		· · · · · · · · · · · · · · · · · · ·	17D0421-10	Tissue	04/26/17
11: .	1 0-0141/10-0E0-000-170420D01			17 DUTZ 1-00DUF	i i i i i i i i i i i i i i i i i i i	04/20/1/

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Notes:

LDC#:38777A6

VALIDATION FINDINGS WORKSHEET Sample Specific Analysis Reference

Page: 1 of 1
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All circled methods are applicable to each sample.

Sample ID	Parameter
	pH TDS CI F NO3 NO2 SO4 O-PO4 AIK CN NH3 TKN TOC Cr6+ CIO4 (90 lipids) (TS)
1.7.0	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
QC	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
11	PH TDS CLF NO3 NO2 SO4 O-PO4 AIK CN NH3 TKN TOC Cr6+ ClO4 (Lipids)
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO3 NO2 SO4 O-PO4 Alk CN NH3 TKN TOC Cr6+ ClO4
	pH TDS CLF NO3 NO2 SO4 O-PO4 Alk CN NH3 TKN TOC Cr6+ ClO4
	pH TDS CLF NO3 NO2 SO4 O-PO4 AIK CN NH3 TKN TOC Cr6+ ClO4
	pH TDS CLF NO3 NO2 SO4 O-PO4 AIK CN NH3 TKN TOC Cr6+ ClO4
	pH TDS CLF NO3 NO2 SO4 O-PO4 AIK CN NH3 TKN TOC Cr6+ ClO4
	pH TDS CLF NO3 NO2 SO4 O-PO4 AIK CN NH3 TKN TOC Cr6+ ClO4
	pH TDS CLF NO3 NO2 SO4 O-PO4 AIK CN NH3 TKN TOC Cr6+ ClO4
	pH TDS CLF NO3 NO2 SO4 O-PO4 AIK CN NH3 TKN TOC Cr6+ ClO4
	pH TDS CLF NO3 NO2 SO4 O-PO4 AIK CN NH3 TKN TOC Cr6+ ClO4
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH_TDS_CL_F_NO ₂ _NO ₂ _SO ₄ _O-PO ₄ _Alk_CN_NH ₂ _TKN_TOC_Cr6+_ClO ₄

Comments:		 		
·				

LDC #: 38777A6

VALIDATION FINDINGS WORKSHEET Blanks

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2nd Review	er:_	\leq	

METHOD:Inorganics, Method See Cover

Conc. units: mg/L Associated Samples: All

Analyte	Blank ID	Blank ID	Blank								
	PB (%)	ICB/CCB (mg/L)	Action Limit	3	5	6	7	9			
% lipids	0.23		1.15	0.82	0.9	0.68	0.70	0.46			

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:

June 13, 2017

Parameters:

Polychlorinated Dioxins/Dibenzofurans

Validation Level:

Stage 2B

Laboratory:

Analytical Resources, Inc.

Sample Delivery Group (SDG): 17D0421

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-GP-OYS-COC-170424	17D0421-01	Tissue	04/24/17
PG-GP-COC-COC-170424	17D0421-02	Tissue	04/24/17
PG-GP-LTN-COC-170424	17D0421-03	Tissue	04/24/17
PG-WS-OYS-COC-170424	17D0421-04	Tissue	04/24/17
PG-WS-COC-COC-170425	17D0421-05	Tissue	04/25/17
PG-WS-LTN-COC-170424	17D0421-06	Tissue	04/24/17
PG-WS-MAN-COC-170424	17D0421-07	Tissue	04/24/17
PG-SMA3-GEO-COC-170426	17D0421-08	Tissue	04/26/17
PG-SMA3-DUNM-COC-170426	17D0421-09	Tissue	04/26/17
PG-SMA3-DUNH-COC-170426	17D0421-10	Tissue	04/26/17

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.

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 less than or equal to 20.0% for unlabeled compounds and less than or equal to 30.0% for labeled compounds.

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
BFE0233-BLK1	05/09/17	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total TCDF Total TCDD Total TCDD Total PeCDD Total HxCDF Total HxCDD Total HxCDF Total HxCDD Total HxCDD Total HpCDD	0.0544 ng/Kg 0.299 ng/Kg 0.100 ng/Kg 0.0474 ng/Kg 0.0839 ng/Kg 0.0521 ng/Kg 0.0524 ng/Kg 0.142 ng/Kg 0.0866 ng/Kg 0.0861 ng/Kg 0.120 ng/Kg 0.120 ng/Kg 0.120 ng/Kg 0.124 ng/Kg 0.120 ng/Kg 0.104 ng/Kg 0.224 ng/Kg 0.301 ng/Kg 0.301 ng/Kg 0.0932 ng/Kg 0.0932 ng/Kg 0.0932 ng/Kg 0.100 ng/Kg 0.100 ng/Kg 0.155 ng/Kg 0.155 ng/Kg 0.262 ng/Kg 0.262 ng/Kg 0.262 ng/Kg	All samples in SDG 17D0421

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-GP-OYS-COC-170424	1,2,3,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.280 ng/Kg 0.322 ng/Kg 0.582 ng/Kg	0.280U ng/Kg 0.322U ng/Kg 0.582U ng/Kg
PG-GP-COC-COC-170424	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDD 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD 0CDF Total TCDD Total TCDD Total PeCDF Total HxCDF Total HyCDF	0.277 ng/Kg 0.226 ng/Kg 0.135 ng/Kg 0.147 ng/Kg 0.180 ng/Kg 0.139 ng/Kg 0.144 ng/Kg 0.153 ng/Kg 0.161 ng/Kg 0.415 ng/Kg 1.09 ng/Kg 0.634 ng/Kg 0.277 ng/Kg 0.319 ng/Kg 0.135 ng/Kg 0.834 ng/Kg 0.866 ng/Kg 0.834 ng/Kg	0.277U ng/Kg 0.226U ng/Kg 0.135U ng/Kg 0.147U ng/Kg 0.180U ng/Kg 0.139U ng/Kg 0.144U ng/Kg 0.153U ng/Kg 0.161U ng/Kg 0.415U ng/Kg 1.09U ng/Kg 0.634U ng/Kg 0.277J ng/Kg 0.319J ng/Kg 0.319J ng/Kg 0.135J ng/Kg 0.135J ng/Kg 0.866J ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
PG-GP-LTN-COC-170424	1,2,3,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total PeCDF Total HxCDF Total HxCDD Total HpCDF Total HpCDD	0.069 ng/Kg 0.081 ng/Kg 0.092 ng/Kg 0.117 ng/Kg 0.117 ng/Kg 0.041 ng/Kg 0.601 ng/Kg 0.452 ng/Kg 4.78 ng/Kg 0.143 ng/Kg 0.290 ng/Kg 0.292 ng/Kg 0.232 ng/Kg 0.378 ng/Kg 2.10 ng/Kg	0.069U ng/Kg 0.081U ng/Kg 0.092U ng/Kg 0.117U ng/Kg 0.170U ng/Kg 0.041U ng/Kg 0.601U ng/Kg 0.452U ng/Kg 4.78U ng/Kg 0.143J ng/Kg 0.290J ng/Kg 0.232J ng/Kg 0.378J ng/Kg
PG-WS-OYS-COC-170424	2,3,7,8-TCDD 1,2,3,4,6,7,8-HpCDD OCDD Total HxCDF Total HxCDD Total HpCDD	0.234 ng/Kg 0.252 ng/Kg 1.48 ng/Kg 0.137 ng/Kg 0.269 ng/Kg 1.11 ng/Kg	0.234U ng/Kg 0.252U ng/Kg 1.48U ng/Kg 0.137J ng/Kg 0.269J ng/Kg 1.11J ng/Kg
PG-WS-COC-COC-170425	1,2,3,4,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total HxCDF Total HxCDD Total HpCDD Total HpCDD	0.090 ng/Kg 0.200 ng/Kg 0.715 ng/Kg 0.527 ng/Kg 4.86 ng/Kg 0.090 ng/Kg 0.158 ng/Kg 0.200 ng/Kg	0.090U ng/Kg 0.200U ng/Kg 0.715U ng/Kg 0.527U ng/Kg 4.86U ng/Kg 0.090J ng/Kg 0.158J ng/Kg 0.200J ng/Kg 2.74J ng/Kg
PG-WS-LTN-COC-170424	-170424 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD Total TCDD Total HxCDF Total HpCDF Total HpCDD		0.077U ng/Kg 0.054U ng/Kg 0.269U ng/Kg 1.83U ng/Kg 0.070J ng/Kg 0.116J ng/Kg 0.054J ng/Kg 0.847J ng/Kg
PG-WS-MAN-COC-170424	1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD Total HxCDF Total HpCDF Total HpCDD	0.113 ng/Kg 0.054 ng/Kg 0.184 ng/Kg 2.48 ng/Kg 0.113 ng/Kg 0.054 ng/Kg 1.24 ng/Kg	0.113U ng/Kg 0.054U ng/Kg 0.184U ng/Kg 2.48U ng/Kg 0.113J ng/Kg 0.054J ng/Kg 1.24J ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
PG-SMA3-GEO-COC-170426	2,3,7,8-TCDF 1,2,3,7,8-PCDD 1,2,3,4,7,8-HxCDF 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total TCDF Total TCDD Total PeCDF Total PeCDF Total HxCDF Total HxCDD Total HyCDD Total HyCDD Total HyCDD	0.180 ng/Kg 0.077 ng/Kg 0.062 ng/Kg 0.117 ng/Kg 0.169 ng/Kg 0.565 ng/Kg 0.417 ng/Kg 5.01 ng/Kg 0.430 ng/Kg 0.093 ng/Kg 0.124 ng/Kg 0.120 ng/Kg 0.672 ng/Kg 0.275 ng/Kg 2.44 ng/Kg	0.180U ng/Kg 0.077U ng/Kg 0.062U ng/Kg 0.117U ng/Kg 0.169U ng/Kg 0.565U ng/Kg 0.417U ng/Kg 5.01U ng/Kg 0.430J ng/Kg 0.093J ng/Kg 0.124J ng/Kg 0.124J ng/Kg 0.120J ng/Kg 0.672J ng/Kg 0.275J ng/Kg 2.44J ng/Kg
PG-SMA3-DUNM-COC-170426	2,3,7,8-TCDF	0.042 ng/Kg	0.042U ng/Kg
	1,2,3,7,8,9-HxCDF	0.097 ng/Kg	0.097U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.267 ng/Kg	0.267U ng/Kg
	OCDF	0.345 ng/Kg	0.345U ng/Kg
	OCDD	1.94 ng/Kg	1.94U ng/Kg
	Total TCDF	0.042 ng/Kg	0.042J ng/Kg
	Total HxCDF	0.097 ng/Kg	0.097J ng/Kg
	Total HpCDD	0.805 ng/Kg	0.805J ng/Kg
PG-SMA3-DUNH-COC-170426	2,3,7,8-TCDD	0.369 ng/Kg	0.369U ng/Kg
	1,2,3,7,8-PeCDF	0.396 ng/Kg	0.396U ng/Kg
	1,2,3,4,7,8-HxCDF	0.416 ng/Kg	0.416U ng/Kg
	1,2,3,6,7,8-HxCDF	0.227 ng/Kg	0.227U ng/Kg
	2,3,4,6,7,8-HxCDF	0.204 ng/Kg	0.204U ng/Kg
	OCDF	0.154 ng/Kg	0.154U ng/Kg
	OCDD	2.01 ng/Kg	2.01U ng/Kg

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. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Internal Standards

All internal standard recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Affected Compound	Flag	A or P
PG-WS-MAN-COC-170424	13C-2,3,4,6,7,8-HxCDF 13C-1,2,3,7,8,9-HxCDF 13C-1,2,3,4,7,8-HxCDD 13C-1,2,3,4,6,7,8-HpCDF 13C-1,2,3,4,7,8,9-HpCDF	27.7 (28-136) 25.7 (29-147) 31.0 (32-141) 26.5 (28-143) 24.5 (26-138)	2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HxCDF Total HpCDF	J (all detects) UJ (all non-detects)	Р
PG-SMA3-DUNM-COC-170426	13C-1,2,3,7,8,9-HxCDF 12C-1,2,3,4,6,7,8-HpCDF	28.2 (29-147) 27.4 (28-143)	1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF Total HxCDF Total HpCDF	J (all detects) UJ (all non-detects)	Р

XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDG 17D0421	All compounds reported as estimated maximum possible concentration (EMPC)	J (all detects)	А

Raw data were not reviewed for Stage 2B validation.

XII. Target Compound Identifications

Raw data were not reviewed for Stage 2B validation.

XIII. System Performance

Raw data were not reviewed for Stage 2B validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to internal standards %R and results reported by the laboratory as EMPCs, data were qualified as estimated in ten samples.

Due to laboratory blank contamination, data were qualified as not detected or estimated in ten samples.

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 Polychlorinated Dioxins/Dibenzofurans - Data Qualification Summary - SDG 17D0421

Sample	Compound	Flag	A or P	Reason
PG-WS-MAN-COC-170424	2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HxCDF Total HpCDF	J (all detects) UJ (all non-detects)	P	Internal standards (%R)
PG-SMA3-DUNM-COC-170426	1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF Total HxCDF Total HpCDF	J (all detects) UJ (all non-detects)	Р	Internal standards (%R)
PG-GP-OYS-COC-170424 PG-GP-COC-COC-170424 PG-GP-LTN-COC-170424 PG-WS-OYS-COC-170424 PG-WS-COC-COC-170425 PG-WS-LTN-COC-170424 PG-SMA3-GEO-COC-170426 PG-SMA3-DUNM-COC-170426 PG-SMA3-DUNH-COC-170426	All compounds reported as estimated maximum possible concentration (EMPC) WS-OYS-COC-170424 WS-COC-COC-170425 WS-LTN-COC-170424 WS-MAN-COC-170424 SMA3-GEO-COC-170426 SMA3-DUNM-COC-170426		А	Compound quantitation (EMPC)

Port Gamble, Shellfish Monitoring Polychlorinated Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG 17D0421

Sample	Compound	Modified Final Concentration	A or P
PG-GP-OYS-COC-170424	1,2,3,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.280U ng/Kg 0.322U ng/Kg 0.582U ng/Kg	А
PG-GP-COC-COC-170424	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HyCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF Total TCDD Total PeCDF Total PeCDF Total HxCDF Total HxCDF Total HyCDF	0.277U ng/Kg 0.226U ng/Kg 0.135U ng/Kg 0.147U ng/Kg 0.147U ng/Kg 0.180U ng/Kg 0.139U ng/Kg 0.144U ng/Kg 0.153U ng/Kg 0.161U ng/Kg 0.415U ng/Kg 1.09U ng/Kg 0.634U ng/Kg 0.277J ng/Kg 0.319J ng/Kg 0.319J ng/Kg 0.135J ng/Kg 0.866J ng/Kg	A

Sample	Compound	Modified Final Concentration	A or P
PG-GP-LTN-COC-170424	1,2,3,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total PeCDF Total HxCDF Total HxCDD Total HpCDD Total HpCDD	0.069U ng/Kg 0.081U ng/Kg 0.092U ng/Kg 0.092U ng/Kg 0.117U ng/Kg 0.170U ng/Kg 0.041U ng/Kg 0.601U ng/Kg 0.452U ng/Kg 4.78U ng/Kg 0.143J ng/Kg 0.290J ng/Kg 0.232J ng/Kg 0.378J ng/Kg 2.10J ng/Kg	A
PG-WS-OYS-COC-170424	2,3,7,8-TCDD 1,2,3,4,6,7,8-HpCDD OCDD Total HxCDF Total HxCDD Total HpCDD	0.234U ng/Kg 0.252U ng/Kg 1.48U ng/Kg 0.137J ng/Kg 0.269J ng/Kg 1.11J ng/Kg	Α
PG-WS-COC-COC-170425	1,2,3,4,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total HxCDF Total HxCDD Total HpCDD Total HpCDD	0.090U ng/Kg 0.200U ng/Kg 0.715U ng/Kg 0.527U ng/Kg 4.86U ng/Kg 0.090J ng/Kg 0.158J ng/Kg 0.200J ng/Kg 2.74J ng/Kg	А
PG-WS-LTN-COC-170424	1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD Total TCDD Total HxCDF Total HpCDF Total HpCDD	0.077U ng/Kg 0.054U ng/Kg 0.269U ng/Kg 1.83U ng/Kg 0.070J ng/Kg 0.116J ng/Kg 0.054J ng/Kg 0.847J ng/Kg	А
PG-WS-MAN-COC-170424	1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD Total HxCDF Total HpCDF Total HpCDD	0.113U ng/Kg 0.054U ng/Kg 0.184U ng/Kg 2.48U ng/Kg 0.113J ng/Kg 0.054J ng/Kg 1.24J ng/Kg	А

Sample	Compound	Modified Final Concentration	A or P
PG-SMA3-GEO-COC-170426	#MA3-GEO-COC-170426 2,3,7,8-TCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 0.169U ng/Kg 0.169U ng/Kg 0.169U ng/Kg 0.417U ng/Kg 0.417U ng/Kg 0.430J ng/Kg 0.430J ng/Kg 0.430J ng/Kg 0.093J ng/Kg 0.124J ng/Kg 0.077J ng/Kg 0.077J ng/Kg 0.120J ng/Kg 0.120J ng/Kg 0.120J ng/Kg 0.275J ng/Kg 0.275J ng/Kg 0.275J ng/Kg 0.275J ng/Kg		A
PG-SMA3-DUNM-COC-170426	2,3,7,8-TCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total TCDF Total HxCDF Total HpCDD	0.042U ng/Kg 0.097U ng/Kg 0.267U ng/Kg 0.345U ng/Kg 1.94U ng/Kg 0.042J ng/Kg 0.097J ng/Kg 0.805J ng/Kg	А
PG-SMA3-DUNH-COC-170426	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF OCDF OCDD	0.369U ng/Kg 0.396U ng/Kg 0.416U ng/Kg 0.227U ng/Kg 0.204U ng/Kg 0.154U ng/Kg 2.01U ng/Kg	A

LDC #: 38777A21	VALIDATION COMPLETENESS WORKSHEET
SDG #: 17D0421	Stage 2B
Laboratory: Analytical Resource	ces, Inc.

Date: 6/7/17
Page: __/of /_
Reviewer: ____
2nd Reviewer: ____

METHOD: HRGC/HRMS Polychlorinated Dioxins/Dibenzofurans (EPA Method 1613B)

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
ļ. I.	Sample receipt/Technical holding times	A	
Ĥ.	HRGC/HRMS Instrument performance check	A	
. 111.	Initial calibration/ICV	AA	RSD < 28/0 /CV = 20/38/
IV.	Continuing calibration	A	RSO < 20/0 CV = 20/30/0 RC Limits
V.	Laboratory Blanks	W	
VI.	Field blanks	I N	
VII.	Matrix spike/Matrix spike duplicates	N	e5
VIII.	Laboratory control samples	A	105
IX.	Field duplicates	1 1	
X.	Internal standards	/w/	
XI.	Compound quantitation RL/LOQ/LODs	ØN V	All EMPC MSults-Jdets/A
XII.	Target compound identification	N	
XIII.	System performance	N	
XIV.	Overall assessment of data		

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-GP-OYS-COC-070424	17D0421-01	Tissue	04/24/17
2	PG-GP-COC-COC-170424	17D0421-02	Tissue	04/24/17
3	PG-GP-LTN-COC-170424	17D0421-03	Tissue	04/24/17
1	PG-WS-OYS-COC-170424	17D0421-04	Tissue	04/24/17
5	PG-WS-COC-COC-170425	17D0421-05	Tissue	04/25/17
3	PG-WS-LTN-COC-170424	17D0421-06	Tissue	04/24/17
7	PG-WS-MAN-COC-170424	17D0421-07	Tissue	04/24/17
3	PG-SMA3-GEO-COC-170426	17D0421-08	Tissue	04/26/17
)	PG-SMA3-DUNM-COC-170426	17D0421-09	Tissue	04/26/17
10	PG-SMA3-DUNH-COC-170426	17D0421-10	Tissue	04/26/17
11				
12	BFE0233-B4-1			
3	<u> </u>			
14				

VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

VALIDATION FINDINGS WORKSHEET Blanks

Page:	<u>/</u> of <u>/</u> _
Reviewer:_	9
2nd Reviewer:	a

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Blank extraction date: 5/9/17 Blank analysis date: 5/22/17

Conc. units: ng/kg Associated samples: All qual U and J for totals

Compound	Blank ID		·		, ,	SSOCIATED	nple Identific		al U and J	ioi totais		
Compound	BFF0233-BLK1	5X	1	2	3	4	5	6	7	8	9	10
Н	0.0544*	0.272			3	4	3	<u> </u>				10
Α	0.299*	1.495		0.277		0.234				0.180	0.042	0.200
1	0.100*	0.5	0.280	0.226	0.069	0.234						0.369 0.396
В	0.0474	0.237	0.200	0.135	0.009					0.077		0.396
К	0.0839*	0.4195	0.322	0.133			0.090			0.062		0.416
	0.0533	0.2555	0.322	0.147	0.081		0.090	·		0.002		0.416
M	0.0524*	0.262		0.139	0.092							0.227
N	0.0324	0.71	0.582	0.139	0.092			0.077	0.113		0.097	0.204
С	0.0686*	0.343		0.153								
D	0.0861*	0.4305		0.161						0.117		
0	0.120	0.6		0.415	0.170		0.200	0.054	0.054	0.169		
P	0.104*	0.52			0.041							
F	0.224	1.12		1.09	0.601	0.252	0.715	0.269	0.184	0.565	0.267	
Q	0.301	1.505		0.634	0.452		0.527			0.417	0.345	0.154
G	1.82	9.1			4.78	1.48	4.86	1.83	2.48	5.01	1.94	2.01
V	0.0932	0.466								0.430J	0.042J	
R	0.263	1.315		0.277J				0.070J		0.093J		
w	0.100	0.5		0.319J	0.143J					0.124J		
S	0.0474	0.237		0.135J						0.077J		
х	0.329	1.645		0.866J	0.290J	0.137J	0.090J	0.116J	0.113J	0.120J	0.097J	
Т	0.155	0.775			0.232J	0.269J	0.158J			0.672J		
Υ	0.262	1.31		0.834J	0.378J		0.200J	0.054J	0.054J	0.275J		
U	0.722	3 61			2 10.1	1 11.J	2 74.1	0.847.J	1 24J	2 44.1	0.805.1	COSTU-LA

VALIDATION FINDINGS WORKSHEET Internal Standards

Page:_	of
Reviewer:_	· 9
2nd Reviewer:	P

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Are all internal standard recoveries were within the 40-135% criteria?

Y N N/A Was the S/N ratio all internal standard peaks ≥ 10?

#	Date	Lab ID/Reference	Internal Standard			% Recovery (Limit: 40-135%)		Qualifications	
		7	13C-M	2 7	<u> </u>	7 (28-/34)	7	MYP (dats+No)	١.
		/	13C-M 13C-N 13C-C 13C-D 13C-P	26 31 24	<u>-</u> 5.	7 (29-147)	7	1	1
			13C-C	3/	7.	0 (32-141)			1
			130-0	20	<u> </u>	5 (28-143)			1
			13C-P	24	Z	5 (28-143) 5 (26-138)		/	1
						()			1
		9	13C-N	28	<u>.</u> ز	2 (29-147)	7	MI P Wests +NO	1
		/	13C-N 13C-0	28 27		29-147) 4 (28-143)	~		r
						()			1
						()			1
						()		·	1
						()			1
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						()	* 0	dso qual x, y)	
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						()			
					•	(∥
						()			
		*****				()			
		Internal Standards	Check Standard Used		Ī	Recovery Standards		Check Standard Used]
A	¹² C-2.3.7.8-T€	DF		K.	ℷ	¹² C-1.2.3.4-TCDD			
В	¹³ C-2,3,7,8-T				╬	¹³ C-1-2-17-8-9-HyCDD			1
<u> </u>	¹³ C-1,2,3,7,8-1 ¹³ C-1,2,3,7,8-1			M	╬				1
L D. F	¹³ C-12378-			N O	╫				
F	¹³ C-1,2,3,6,7,8			P	1				
ل عا	¹³ C-1,2,3,4,6,7	7,8-HpCDF			٦Г				1
	¹³ C-1,2,3,4,6,7	7,8-HpCDD		R	╬				
لسلسا	13C OCDD								1

LDC#:38777

EDD POPULATION COMPLETENESS WORKSHEET

Anchor



The LDC job number listed above was entered by _________.

			<u> </u>		
	EDD Process	Y/N	Initi	al	Comments/Action
I.	EDD Completeness	-			
Ia.	- All methods present?	Y	B	A	
Ib.	- All samples present/match report?	Y			
Ic.	- All reported analytes present?	Y			
Id.	- 10% or 100% verification of EDD?	Y			
II.	EDD Preparation/Entry				
IIa.	- QC Level applied? (EPAStage2B or EPAStage4)	4		-	
IIb.	- Laboratory EMPC qualified results qualified (J with reason code 23)?	Y			
III.	Reasonableness Checks	-			
IIIa.	- Do all qualified ND results have ND qualifier (e.g. UJ)?	Y		-	
IIIb.	- Do all qualified detect results have detect qualifier (e.g. J)?	Y			
IIIc.	- If reason codes are used, do all qualified results have reason code field populated, and vice versa?	Y			
IIId.	- Do blank concentrations in report match EDD, where data was qualified due to blank?	4			
IIIe.	- Is the detect flag set to "N" for all "U" qualified blank results?	Y			
IIIf.	- Were there multiple results due to dilutions/reanalysis? If so, were results qualified appropriately?	N/A			
IIIg.	-Are all results marked reportable "Yes" unless rejected for overall assessment in the data validation report?	4			
IIIh.	-Are there any lab "R" qualified data? / Are the entry columns blank for these results?	N/A			
IIIi.	-Are there any discrepancies between the data packet and the EDD?	N	1		

Notes:	*see discrepancy sheet

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 June 15, 2017

SUBJECT: Port Gamble, Shellfish Monitoring, Data Validation

Dear Ms. Fields,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on May 25, 2017. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #38780:

SDG #	<u>Fraction</u>
17E0012	Polynuclear Aromatic Hydrocarbons, Cadmium, Wet Chemistry, Polychlorinated Dioxins/Dibenzofurans

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 Program 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, update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink Project Manager/Chemist

Christma Rink

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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Port Gamble, Shellfish Monitoring

LDC Report Date: June 13, 2017

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: Stage 2B

Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): 17E0012

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-PJ-OYS-COC-170427	17E0012-01	Tissue	04/27/17
PG-PJ-COC-COC-170427	17E0012-02	Tissue	04/27/17
PG-PJ-LTN-COC-170427	17E0012-03	Tissue	04/27/17
PG-PJ-MAN-COC-170427	17E0012-04	Tissue	04/27/17
PG-PJ-HC-COC-170428	17E0012-05	Tissue	04/28/17
PG-PJ-MUS-COC-170427	17E0012-06	Tissue	04/27/17

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.

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.

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.

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 Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 17E0012

No Sample Data Qualified in this SDG

Port Gamble, Shellfish Monitoring Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 17E0012

No Sample Data Qualified in this SDG

DG#	38780A2b VALIDATIO 17E0012 tory: Analytical Resources, Inc.		LETENES tage 2B	S WORKSHEET	:,1	Date: <u>b/7/</u> Page: _/of Reviewer:/
he sa	OD: GC/MS Polynuclear Aromatic Hydromples listed below were reviewed for each on findings worksheets.	·			1)	
	Validation Area			Comr	ments	
l. ,	Sample receipt/Technical holding times	A				
II.	GC/MS Instrument performance check	A				
III.	Initial calibration/ICV	AA	RSD	₹ 20 J	/CV≤3	8/2
īV.	Continuing calibration	A	COV	< 20%		
V .,	Laboratory Blanks	A		(The state of the s
VI.	Field blanks	$ \mathcal{N} $				
VII.	Surrogate spikes	A				
VIII.	Matrix spike/Matrix spike duplicates	N	CS			
IX.	Laboratory control samples	A	LC5			
X.	Field duplicates	\mathcal{N}				
XI.	Internal standards	A				
XII.	Compound quantitation RL/LOQ/LODs	N				
XIII.	Target compound identification	N		· · · · · · · · · · · · · · · · · · ·		
XIV.	System performance	N	-			
, XV.	Overall assessment of data	A				
ote:	N = Not provided/applicable R = Rir	lo compounds nsate ield blank	s detected	D = Duplicate TB = Trip blank EB = Equipment bla	OTHER	irce blank :
c	Client ID			Lab ID	Matrix	Date
1 F	PG-PJ-OYS-COC-170427			17E0012-01	Tissue	04/27/17
	PG-PJ-COC-COC-170427			17E0012-02	Tissue	04/27/17
3 F	PG-PJ-LTN-COC-170427			17E0012-03	Tissue	04/27/17
4 F	PG-PJ-MAN-COC-170427			17E0012-04	Tissue	04/27/17
5 P	PG-PJ-HC-COC-170428			17E0012-05	Tissue	04/28/17
	PG-PJ-MUS-COC-170427			17E0012-06	Tissue	04/27/17
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Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Port Gamble, Shellfish Monitoring

LDC Report Date:

June 13, 2017

Parameters:

Cadmium

Validation Level:

Stage 2B

Laboratory:

Analytical Resources, Inc.

Sample Delivery Group (SDG): 17E0012

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-PJ-OYS-COC-170427	17E0012-01	Tissue	04/27/17
PG-PJ-COC-COC-170427	17E0012-02	Tissue	04/27/17
PG-PJ-LTN-COC-170427	17E0012-03	Tissue	04/27/17
PG-PJ-MAN-COC-170427	17E0012-04	Tissue	04/27/17
PG-PJ-HC-COC-170428	17E0012-05	Tissue	04/28/17
PG-PJ-MUS-COC-170427	17E0012-06	Tissue	04/27/17

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 method.

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 with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Cadmium	0.0030 mg/Kg	All samples in SDG 17E0012
ICB/CCB	Cadmium	0.0004 mg/L	PG-PJ-OYS-COC-170427 PG-PJ-COC-COC-170427 PG-PJ-LTN-COC-170427 PG-PJ-MAN-COC-170427
ICB/CCB	Cadmium	0.0006 mg/L	PG-PJ-HC-COC-170428 PG-PJ-MUS-COC-170427

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) 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 17E0012

No Sample Data Qualified in this SDG

Port Gamble, Shellfish Monitoring Cadmium - Laboratory Blank Data Qualification Summary - SDG 17E0012

No Sample Data Qualified in this SDG

SDG#	: 38780A4b VALIDATIOI b: 17E0012 atory: Analytical Resources, Inc.		LETENES tage 2B	S WORKSHEE		Date: 06/06/ Page: Lof L Reviewer: 41/
ИЕТН	OD: Cadmium (EPA SW 846 Method 60 amples listed below were reviewed for each		ollowing valida	ation areas. Valida	2nd	Reviewer:
/alidat	ion findings worksheets.			Com		
	Validation Area	4.0		Con	<u>iments</u>	
<u>l. </u>	Sample receipt/Technical holding times	-A1A	e e			
<u> II</u>	Instrument Calibration ICP Interference Check Sample (ICS) Analysis	A			 	·
III. IV.	Laboratory Blanks	SW/			t	
V.	Field Blanks	N				
VI.	Matrix Spike/Matrix Spike Duplicates	NA	From SDG	#17D0421-08 (1	PG-SMA3-GFT	D-COC-170U26 M
VII.	Duplicate sample analysis	NA	J			-COC_170426DU
VIII.	Serial Dilution	N		-	14 21112 000	0002110422201
IX.	Laboratory control samples	A	LCS	-		
Χ.	Field Duplicates	Ñ				
XI.	Sample Result Verification	N				
XII	Overall Assessment of Data	A				
lote:	N = Not provided/applicable R = Rin	o compound sate eld blank	s detected	D = Duplicate TB = Trip blank EB = Equipment b	OTHER	urce blank ::
	Client ID			Lab ID	Matrix	Date
1 F	PG-PJ-OYS-COC-170427			17E0012-01	Tissue	04/27/17
	PG-PJ-COC-COC-170427	······		17E0012-02	Tissue	04/27/17
	PG-PJ-LTN-COC-170427			17E0012-03	Tissue	04/27/17
	PG-PJ-MAN-COC-170427			17E0012-04	Tissue	04/27/17
5 F	PG-PJ-HC-COC-170428			17E0012-05	Tissue	04/28/17
6 I	PG-PJ-MUS-COC-170427			17E0012-06	Tissue	04/27/17
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Notes:____

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LDC #: 38780A4b_	METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)	Sample Concentration units, unless otherwise noted: mg/kg
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VALIDATION FINDINGS WORKSHEET PB/ICB/CCB QUALIFIED SAMPLES

Soil preparation factor applied: 20x Associated Samples: All

Page: 1_of 1 Reviewer: ATL 2nd Reviewer: \(\text{77} \)

	um Maximum Action ICB/CCB ^a Level (mg/L)	0.015	Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: 1 to 4	um Maximum Action ICB/CCB ^a Level (mg/L) (mg/L)	0.0004 0.04	Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: 5, 6	Jum Maximum Action ICB/CCB* Level (mg/L)	
	Action Level	0.015	se noted: mg/k	Action Level	0.04	se noted: mg/kı	Action Level	
			less otherwi		0.0004	less otherwi		
	Maximum PB ^a (ug/L)		on units, uni	Maximum PB ^a (ug/L)		on units, unl	Maximum PB ^a (ug/L)	
	Maximum PB ^a (mg/Kg)	0.0030	oncentration	Maximum PB ^a (mg/Kg)		oncentratio	Maximum PB ^a (mg/Kg)	
18.4 18.4	Analyte	පි	Sample C	Analyte	ප	Sample C	Analyte	

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Port Gamble, Shellfish Monitoring

LDC Report Date:

June 13, 2017

Parameters:

Wet Chemistry

Validation Level:

Stage 2B

Laboratory:

Analytical Resources, Inc.

Sample Delivery Group (SDG): 17E0012

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-PJ-OYS-COC-170427	17E0012-01	Tissue	04/27/17
PG-PJ-COC-COC-170427	17E0012-02	Tissue	04/27/17
PG-PJ-LTN-COC-170427	17E0012-03	Tissue	04/27/17
PG-PJ-MAN-COC-170427	17E0012-04	Tissue	04/27/17
PG-PJ-HC-COC-170428	17E0012-05	Tissue	04/28/17
PG-PJ-MUS-COC-170427	17E0012-06	Tissue	04/27/17

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 methods:

Percent Lipids by Bligh and Dyer Method Total Solids by Standard Method 2540G

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 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 with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	% Lipids	0.23 %	All samples in SDG 17E0012

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 with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
PG-PJ-COC-COC-170427	% Lipids	0.64 mg/L	0.64U mg/L
PG-PJ-LTN-COC-170427	% Lipids	0.94 mg/L	0.94U mg/L
PG-PJ-MAN-COC-170427	% Lipids	0.73 mg/L	0.73U mg/L
PG-PJ-HC-COC-170428	% Lipids	0.79 mg/L	0.79U mg/L
PG-PJ-MUS-COC-170427	% Lipids	0.72 mg/L	0.72U mg/L

V. Field Blanks

No field blanks were identified in this SDG.

VI. 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.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were not required by the methods.

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.

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. Based upon the data validation all other results are considered valid and usable for all purposes.

Port Gamble, Shellfish Monitoring Wet Chemistry - Data Qualification Summary - SDG 17E0012

No Sample Data Qualified in this SDG

Port Gamble, Shellfish Monitoring Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 17E0012

Sample	Analyte	Modified Final Concentration	A or P
PG-PJ-COC-COC-170427	% Lipids	0.64U mg/L	A
PG-PJ-LTN-COC-170427	% Lipids	0.94U mg/L	А
PG-PJ-MAN-COC-170427	% Lipids	0.73U mg/L	Α
PG-PJ-HC-COC-170428	% Lipids	0.79U mg/L	Α
PG-PJ-MUS-COC-170427	% Lipids	0.72U mg/L	А

SDG #	: 38780A6 VALIDATI t: 17E0012 atory: Analytical Resources, Inc.		PLETENES Stage 2B	S WORKSHEE	T I 2nd I	Date: 06/06 Page:l of _l Reviewer:ATL Reviewer:
Γhe sa	OD: (Analyte) Percent Lipids (Bligh & amples listed below were reviewed for ion findings worksheets.				tion findings are	noted in attache
	Validation Area			Com	ments	
l.	Sample receipt/Technical holding times	AIA	-			
	Initial calibration	N				
III.	Calibration verification	N				
IV	Laboratory Blanks	SW				
V	Field blanks	N				
VI.	Matrix Spike/Matrix Spike Duplicates	N				
VII.	Duplicate sample analysis	A	From SDG-1	17D0421-08 (PG-	SMA3-GED-CO	DC-170U26 D
VIII.	Laboratory control samples	N				
IX.	Field duplicates	N				
X.	Sample result verification	N				
ΧI	Overall assessment of data	A				
lote:	N = Not provided/applicable R =	= No compound Rinsate = Field blank	ls detected	D = Duplicate TB = Trip blank EB = Equipment bl	OTHER:	rce blank
	Client ID			Lab ID	Matrix	Date
1	PG-PJ-OYS-COC-170427			17E0012-01	Tissue	04/27/17
	PG-PJ-COC-COC-170427	*		17E0012-02	Tissue	04/27/17
1	PG-PJ-LTN-COC-170427		· · · · · · · · · · · · · · · · · · ·	17E0012-03	Tissue	04/27/17
	PG-PJ-MAN-COC-170427			17E0012-04	Tissue	04/27/17
	PG-PJ-HC-COC-170428		***************************************	17E0012-05	Tissue	04/28/17
	PG-PJ-MUS-COC-170427			17E0012-06	Tissue	04/27/17
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Notes:

LDC #: 38780A6

VALIDATION FINDINGS WORKSHEET Sample Specific Analysis Reference

Page: 1 of 1
Reviewer: 471
2nd reviewer:

All circled methods are applicable to each sample.

Sample ID	Payamatay
1-)6	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄ (9 ₇ Lipids) (73)
1-76	
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS Cl F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
i	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CLF NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH TDS CI F NO ₃ NO ₂ SO ₄ O-PO ₄ Alk CN NH ₃ TKN TOC Cr6+ ClO ₄
	pH_TDS_CL_F_NO ₂ _NO ₂ _SO ₄ _O-PO ₄ _Alk_CN_NH ₂ _TKN_TOC_Cr6+_ClO ₄

Comments:					
,					
·	·	·	····	 	

LDC #: 38780A6

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1 Reviewer: ATL 2nd Reviewer: Q

Blanks

mg/L Conc. units:

METHOD:Inorganics, Method See Cover

All		9	0.72	
AII		9	0.72	
		5	62.0	
Associated Samples:		4	0.73	
Assc		3	0.94	
		2	0.64	
	Blank	Action Limit	1.15	
	Blank ID	ICB/CCB (mg/L)		
s: mg/L	Blank ID	PB (%)	0.23	
Conc. units:	Analyte		% lipids	

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: June 13, 2017

Parameters: Polychlorinated Dioxins/Dibenzofurans

Validation Level: Stage 2B

Laboratory: Analytical Resources, Inc.

Sample Delivery Group (SDG): 17E0012

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
PG-PJ-OYS-COC-170427	17E0012-01	Tissue	04/27/17
PG-PJ-COC-COC-170427	17E0012-02	Tissue	04/27/17
PG-PJ-LTN-COC-170427	17E0012-03	Tissue	04/27/17
PG-PJ-MAN-COC-170427	17E0012-04	Tissue	04/27/17
PG-PJ-HC-COC-170428	17E0012-05	Tissue	04/28/17
PG-PJ-MUS-COC-170427	17E0012-06	Tissue	04/27/17

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.

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.

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
BFF0233-BLK1	05/09/17	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PCDD 1,2,3,7,8-PCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HpCDF 1,2,3,4,7,8-HpCDF 1,2,3,4,7,8-HpCDF 1,2,3,4,7,8-HpCDD OCDF OCDD Total TCDF Total TCDF Total TCDD Total PeCDF Total PeCDD Total HxCDF Total HxCDD Total HyCDD Total HpCDD	0.0544 ng/Kg 0.299 ng/Kg 0.100 ng/Kg 0.0474 ng/Kg 0.0839 ng/Kg 0.0511 ng/Kg 0.0524 ng/Kg 0.142 ng/Kg 0.0866 ng/Kg 0.0861 ng/Kg 0.120 ng/Kg 0.120 ng/Kg 0.124 ng/Kg 0.124 ng/Kg 0.104 ng/Kg 0.224 ng/Kg 0.301 ng/Kg 0.301 ng/Kg 0.301 ng/Kg 0.302 ng/Kg 0.100 ng/Kg 0.100 ng/Kg 0.100 ng/Kg 0.1055 ng/Kg 0.155 ng/Kg 0.155 ng/Kg 0.262 ng/Kg 0.722 ng/Kg	All samples in SDG 17E0012

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-PJ-OYS-COC-170427	2,3,7,8-TCDF 2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total TCDD Total TCDD Total HxCDF Total HxCDD Total HpCDD Total HpCDD	0.202 ng/Kg 0.164 ng/Kg 0.076 ng/Kg 0.076 ng/Kg 0.102 ng/Kg 0.046 ng/Kg 0.080 ng/Kg 0.060 ng/Kg 0.107 ng/Kg 0.092 ng/Kg 0.141 ng/Kg 0.435 ng/Kg 0.280 ng/Kg 0.942 ng/Kg 0.510 ng/Kg 0.768 ng/Kg 0.256 ng/Kg 1.58 ng/Kg	0.202U ng/Kg 0.164U ng/Kg 0.076U ng/Kg 0.102U ng/Kg 0.046U ng/Kg 0.080U ng/Kg 0.060U ng/Kg 0.107U ng/Kg 0.107U ng/Kg 0.141U ng/Kg 0.435U ng/Kg 0.280U ng/Kg 0.280U ng/Kg 0.942J ng/Kg 0.510J ng/Kg 0.768J ng/Kg 0.256J ng/Kg
PG-PJ-COC-COC-170427	1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD Total PeCDF Total HpCDF Total HpCDD	0.069 ng/Kg 0.264 ng/Kg 1.74 ng/Kg 0.056 ng/Kg 0.069 ng/Kg 0.976 ng/Kg	0.069U ng/Kg 0.264U ng/Kg 1.74U ng/Kg 0.056J ng/Kg 0.069J ng/Kg 0.976J ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
PG-PJ-LTN-COC-170427	2,3,7,8-TCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total TCDD Total HxCDF Total HxCDD Total HyCDD Total HpCDF Total HpCDF	0.227 ng/Kg 0.048 ng/Kg 0.109 ng/Kg 0.160 ng/Kg 0.378 ng/Kg 0.401 ng/Kg 4.19 ng/Kg 0.227 ng/Kg 0.157 ng/Kg 0.149 ng/Kg 0.304 ng/Kg 1.74 ng/Kg	0.227U ng/Kg 0.048U ng/Kg 0.109U ng/Kg 0.160U ng/Kg 0.378U ng/Kg 0.401U ng/Kg 4.19U ng/Kg 0.227J ng/Kg 0.157J ng/Kg 0.149J ng/Kg 0.304J ng/Kg 1.74J ng/Kg
PG-PJ-MAN-COC-170427	1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF OCDF Total HxCDF Total HxCDD Total HpCDF	0.152 ng/Kg 0.156 ng/Kg 0.510 ng/Kg 1.36 ng/Kg 0.243 ng/Kg 0.734 ng/Kg 0.976 ng/Kg	0.152U ng/Kg 0.156U ng/Kg 0.510U ng/Kg 1.36U ng/Kg 0.243J ng/Kg 0.734J ng/Kg 0.976J ng/Kg
PG-PJ-HC-COC-170428	1,2,3,7,8,9-HxCDF OCDD Total HxCDF Total HpCDD	0.078 ng/Kg 1.23 ng/Kg 0.078 ng/Kg 0.325 ng/Kg	0.078U ng/Kg 1.23U ng/Kg 0.078J ng/Kg 0.325J ng/Kg
PG-PJ-MUS-COC-170427	2,3,7,8-TCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD Total TCDF Total TCDD Total PCDF Total HxCDF Total HxCDF Total HxCDD Total HpCDD	0.159 ng/Kg 0.118 ng/Kg 0.565 ng/Kg 3.73 ng/Kg 0.083 ng/Kg 0.159 ng/Kg 0.199 ng/Kg 0.061 ng/Kg 0.151 ng/Kg 0.262 ng/Kg 2.08 ng/Kg	0.159U ng/Kg 0.118U ng/Kg 0.565U ng/Kg 3.73U ng/Kg 0.083J ng/Kg 0.159J ng/Kg 0.199J ng/Kg 0.061J ng/Kg 0.051J ng/Kg 0.262J ng/Kg 2.08J ng/Kg

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. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Internal Standards

All internal standard recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Affected Compound	Flag	A or P
PG-PJ-MAN-COC-170427	¹³ C-1,2,3,7,8-PeCDF ¹³ C-1,2,3,7,8,9-HxCDF ¹³ C-1,2,3,4,6,7,8-HpCDF ¹³ C-1,2,3,4,7,8,9-HpCDF	23.3 (24-185) 24.0 (29-147) 25.9 (28-143) 23.6 (26-138)	1,2,3,7,8-PeCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HxCDF Total HpCDF Total PeCDF	J (all detects) UJ (all non-detects)	Р

XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

		-	
Sample	Compound	Flag	A or P
All samples in SDG 17E0012	All compounds reported as estimated maximum possible concentration (EMPC)	J (all detects)	А

Raw data were not reviewed for Stage 2B validation.

XII. Target Compound Identifications

Raw data were not reviewed for Stage 2B validation.

XIII. System Performance

Raw data were not reviewed for Stage 2B validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to internal standard %R and results reported by the laboratory as EMPCs, data were qualified as estimated in six samples.

Due to laboratory blank contamination, data were qualified as not detected or estimated in six samples.

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 Polychlorinated Dioxins/Dibenzofurans - Data Qualification Summary - SDG 17E0012

Sample	Compound	Flag	A or P	Reason
PG-PJ-MAN-COC-170427	1,2,3,7,8-PeCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HxCDF Total HpCDF Total PeCDF	J (all detects) UJ (all non-detects)	Р	Internal standards (%R)
PG-PJ-OYS-COC-170427 PG-PJ-COC-COC-170427 PG-PJ-LTN-COC-170427 PG-PJ-MAN-COC-170427 PG-PJ-HC-COC-170428 PG-PJ-MUS-COC-170427	All compounds reported as estimated maximum possible concentration (EMPC)	J (all detects)	Α	Compound quantitation (EMPC)

Port Gamble, Shellfish Monitoring Polychlorinated Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG 17E0012

Sample	Compound	Modified Final Concentration	A or P
PG-PJ-OYS-COC-170427	2,3,7,8-TCDF 2,3,7,8-PCDD 1,2,3,7,8-PeCDF 1,2,3,4,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total TCDD Total TCDD Total HxCDF Total HxCDD Total HpCDD Total HpCDD	0.202U ng/Kg 0.164U ng/Kg 0.076U ng/Kg 0.076U ng/Kg 0.046U ng/Kg 0.080U ng/Kg 0.060U ng/Kg 0.107U ng/Kg 0.107U ng/Kg 0.141U ng/Kg 0.435U ng/Kg 0.280U ng/Kg 0.280U ng/Kg 0.942J ng/Kg 0.942J ng/Kg 0.510J ng/Kg 0.510J ng/Kg 0.768J ng/Kg 0.256J ng/Kg	Α
PG-PJ-COC-COC-170427	1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD Total PeCDF Total HpCDF Total HpCDD	0.069U ng/Kg 0.264U ng/Kg 1.74U ng/Kg 0.056J ng/Kg 0.069J ng/Kg 0.976J ng/Kg	А

Sample	Compound	Modified Final Concentration	A or P
PG-PJ-LTN-COC-170427	2,3,7,8-TCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF OCDD Total TCDD Total HxCDF Total HxCDF Total HpCDD	0.227U ng/Kg 0.048U ng/Kg 0.109U ng/Kg 0.160U ng/Kg 0.378U ng/Kg 0.401U ng/Kg 4.19U ng/Kg 0.227J ng/Kg 0.157J ng/Kg 0.149J ng/Kg 0.304J ng/Kg 1.74J ng/Kg	A
PG-PJ-MAN-COC-170427	1,2,3,7,8,9-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF OCDF Total HxCDF Total HxCDD Total HpCDF	0.152U ng/Kg 0.156U ng/Kg 0.510U ng/Kg 1.36U ng/Kg 0.243J ng/Kg 0.734J ng/Kg 0.976J ng/Kg	А
PG-PJ-HC-COC-170428	1,2,3,7,8,9-HxCDF OCDD Total HxCDF Total HpCDD	0.078U ng/Kg 1.23U ng/Kg 0.078J ng/Kg 0.325J ng/Kg	А
PG-PJ-MUS-COC-170427	2,3,7,8-TCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD Total TCDF Total TCDD Total PeCDF Total HxCDF Total HxCDF Total HxCDD Total HpCDD	0.159U ng/Kg 0.118U ng/Kg 0.565U ng/Kg 3.73U ng/Kg 0.083J ng/Kg 0.159J ng/Kg 0.199J ng/Kg 0.061J ng/Kg 0.151J ng/Kg 0.262J ng/Kg 2.08J ng/Kg	Α

SDG # Labora	t:38780A21VALIDATIO t:17E0012 atory:Analytical Resources, Inc. IOD: HRGC/HRMS Polychlorinated Diox	Si	tage 2B		F 2nd F	Date: 6/7// Page:
The sa	amples listed below were reviewed for eation findings worksheets.					noted in attached
	Validation Area			Cc	omments	
1.	Sample receipt/Technical holding times	1 V				
11.	HRGC/HRMS Instrument performance check	A				
III.	Initial calibration/ICV	AA	RS	0×20%.	10/5	20/30/0
IV.	Continuing calibration	TA	- R	c cimits		
V.	Laboratory Blanks	1 Zu/				
VI.	Field blanks					
VII.	Matrix spike/Matrix spike duplicates	1 1	······································	<u> </u>		
VIII.	Laboratory control samples		100			
IX.	Field duplicates					
X.	Internal standards	W		-		
XI.	Compound quantitation RL/LOQ/LODs	N	ES	npc: Jde	+1A	
				· ic. Jue		
XII.	Target compound identification	N N				<u> </u>
XIII.	System performance	N			· · · · · · · · · · · · · · · · · · ·	<u> </u>
XIV.	Overall assessment of data					
Note:	N = Not provided/applicable R = Ri	No compounds insate Field blank	detected	D = Duplicate TB = Trip blank EB = Equipmen	OTHER:	rce blank
	Client ID			Lab ID	Matrix	Date
1	PG-PJ-OYS-COC-170427		,	17E0012-01	Tissue	04/27/17
2 F	PG-PJ-COC-COC-170427			17E0012-02	Tissue	04/27/17
3 F	PG-PJ-LTN-COC-170427			17E0012-03	Tissue	04/27/17
4 F	PG-PJ-MAN-COC-170427			17E0012-04	Tissue	04/27/17
5 I	PG-PJ-HC-COC-170428			17E0012-05	Tissue	04/28/17
6 1	PG-PJ-MUS-COC-170427			17E0012-06	Tissue	04/27/17
7						
8						
9						
10						
Notes:						
		·			***************************************	

VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans

A 2378 TCDD	F 1034678 HaCOD	7 7 3 3 7 9 12,000	100-11001700	0 0 1 1 1 1 1 1 H
A: 2,3,1,9-1 CDD	المال المربي (١٠,٥,٤,٤,٤,١ ٠ ١ مال)	N. 1,2,3,4,7,9-11XCDT	г. 1,2,3,4,7,0,9-прсиг	О. Готаг НРСДД
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

LDC #: 38780A21

VALIDATION FINDINGS WORKSHEET

Page:__ Reviewer:__ 2nd Reviewer:___

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Blank extraction date: 5/9/17 Conc. units: ng/kg_

Blank analysis date: 5/22/17

Conc. units: ng/kg	3				As	sociated s	amples:	Associated samples: All qual U and J for totals	nd J for totals
Compound	Blank ID					Sam	Sample Identification	tion	
	BEE0233-BI K1	5X	1	2	3	4	5	9	
I	0.0544*	0.272	0.202						
4	0.299*	1.495	0.164		0.227			0.159	
	0.100*	0.5	0.076						
В	0.0474	0.237	0.102		·				
×	0.0839*	0.4195	0.046						
-1	0.0511	0.2555	0.080		0.048			,	
Σ	0.0524*	0.262	090.0						
Z	0.142*	0.71	0.107		0.109	0.152	0.078		
S	0.0686*	0.343				0.156			
D	0.0861*	0.4305	0.092	·					
0	0.120	9.0	0.141	0.069	0.160	0.510		0.118	
Ь	0.104*	0.52			,				
Ľ.	0.224	1.12	0.435	0.264	0.378			0.565	
Ø	0.301	1.505	0.280		0.401	1.36			
ڻ و	1.82	9.1	2.91	1.74	4.19		1.23	3.73	
>	0.0932	0.466						0.083J	
۲	0.263	1.315	0.942J		0.227J			0.159J	
M	0.100	0.5		0.056J				0.199J	
S	0.0474	0.237							
×	0.329	1.645	0.510J		0.157J	0.243J	0.078J	0.061J	
⊢	0.155	0.775	0.768J		0.149J	0.734J		0.151J	
>	0.262	1.31	0.256J	0.069J	0.304J	0.976		0.262J	
7	0.722	3.61	1 58.1	0 976.1	1.74.1		0.325.1	2 08.1	

LDC #: 3287884->/

VALIDATION FINDINGS WORKSHEET Internal Standards

Reviewer: 5 2nd Reviewer.

Page:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8299) - ノムノスス) Plegase see qualifications below for all questions answered "N". Not applicable questions are Identified as "N/A".

Are all internal standard recoveries were within the 40-135% criteria? Was the S/N ratio all internal standard peaks \geq 10?

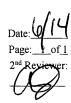
Y W N/A

Date	Lab ID/Reference	Internal Standard	% Recove	% Recovery (Limit: 40-135%)	Qualifications	4
\rightarrow	4	13C-I,	23.3	(38/-/22)	JAN DIASHADI	<u> </u>
\neg		13C-N	240	(29-147)		
		136-0	25.9	(54/-80		
		136-1	23.6	(88/-98)	>	
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1	Internal Standards	Check Standard Used		Recovery Standards	Check Standard Used	
ΙB	⁴³ C 2.3.7.8-TCDF		K. -*C-1.2.37	5-1.2.3.4-TCDD-		
ī	¹³ C-2 3 7 8-TCDP			13C 1 2 3 7 8 9-HxCDD		
ä	¹³ C-12378PeCDF		M			
ᇪ	¹³С-1 2 3 7/8-РеСDD		Z			
8	¹³ C-1,2,8,6,7,8-HxCDF		О		The second secon	
প্	2,3,6,7,8-HxCDD		4			
겄	13021,2,3,4,6,7,8-HpCDF		q			
5,7	^{zś} C-1,2,3,4,6,7,8-HpCDD		<u>a</u>			
ı			<u> </u>			

LDC #: <u>38</u> 780

EDD POPULATION COMPLETENESS WORKSHEET

Anchor



The LDC job number listed above was entered by <u>BA</u>.

	EDD Process	Y/N	Initi	al	Comments/Action
I.	EDD Completeness	-			
Ia.	- All methods present?	7	BI	\	
Ib.	- All samples present/match report?	4			
Ic.	- All reported analytes present?	4			
Id.	or 100% verification of EDD?	L Y			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		District Control of			
II.	EDD Preparation/Entry	_			
IIa.	- QC Level applied? (EPAStage2B or EPAStage4)	1			
IIb.	- Laboratory EMPC qualified results qualified (J with reason code 23)?	4			
III.	Reasonableness Checks	-			
IIIa.	- Do all qualified ND results have ND qualifier (e.g. UJ)?	Y			
IIIb.	- Do all qualified detect results have detect qualifier (e.g. J)?	Υ			
IIIc.	- If reason codes are used, do all qualified results have reason code field populated, and vice versa?	4			
IIId.	- Do blank concentrations in report match EDD, where data was qualified due to blank?	Y			
IIIe.	- Is the detect flag set to "N" for all "U" qualified blank results?	4			
IIIf.	- Were there multiple results due to dilutions/reanalysis? If so, were results qualified appropriately?	N/A			
IIIg.	-Are all results marked reportable "Yes" unless rejected for overall assessment in the data validation report?	7			
IIIh.	-Are there any lab "R" qualified data? / Are the entry columns blank for these results?	N/A			
· IIIi.	-Are there any discrepancies between the data packet and the EDD?	N		•	

Notes:	*see discrepancy sheet	

Anchor Environmental, LLC 720 Olive Way, Suite 1900 Seattle, WA 98101 ATTN: Ms. Cindy Fields

June 26, 2017

SUBJECT: Port Gamble, Shellfish Monitoring, Data Validation

Dear Ms. Fields,

Enclosed is the final validation report for the fraction listed below. This SDG was received on June 23, 2017. Attachment 1 is a summary of the samples that were reviewed for analysis.

LDC Project #38928:

SDG # Fraction

B795167 Polychlorinated Biphenyls as Congeners

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 Chlorinated Dibenzo-p-Dioxins and Chlorinated Dibenzofurans, Data Review, September 2011

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink

Project Manager/Chemist

Christma Rink

2,579 pages-SF Attachment 1 LDC #38928 (Anchor Environmental-Seattle WA / Port Gamble Bay, Shellfish Monitoring) **EDD** Stage 2B PCB DATE DATE Cong. LDC SDG# REC'D DUE (1668A) WT Matrix: Water/Soil/Tissue 0 06/23/17 06/26/17 B795167 0 0 0 0 0 0 0 0 J/CR

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Port Gamble, Shellfish Monitoring

LDC Report Date:

June 26, 2017

Parameters:

Polychlorinated Biphenyls as Congeners

Validation Level:

Stage 2B

Laboratory:

Maxxam

Sample Delivery Group (SDG): B795167

Sample Identification	Laboratory Sample	Matrix	Collection Date
PG-GP-OYS-COC-170424	EIY560	Tissue	04/24/17
PG-GP-COC-COC-170424	EIY561	Tissue	04/24/17
PG-GP-LTN-COC-170424	EIY562	Tissue	04/24/17
PG-WS-OYS-COC-170424	EIY563	Tissue	04/24/17
PG-WS-COC-COC-170425	EIY564	Tissue	04/25/17
PG-WS-LTN-COC-170424	EIY565	Tissue	04/24/17
PG-WS-MAN-COC-170424	EIY566	Tissue	04/24/17
PG-SMA3-GEO-COC-170426	EIY567	Tissue	04/26/17
PG-SMA3-DUNM-COC-170426	EIY568	Tissue	04/26/17
PG-SMA3-DUNH-COC-170426	EIY569	Tissue	04/26/17
PG-PJ-OYS-COC-170427	EIY570	Tissue	04/27/17
PG-PJ-COC-COC-170427	EIY571	Tissue	04/27/17
PG-PJ-LTN-COC-170427	EIY572	Tissue	04/27/17
PG-PJ-MAN-COC-170427	EIY573	Tissue	04/27/17
PG-PJ-HC-COC-170428	EIY574	Tissue	04/28/17
PG-PJ-MUS-COC-170427	EIY575	Tissue	04/27/17
PG-GP-OYS-COC-170424MS	EIY560MS	Tissue	04/24/17
PG-WS-LTN-COC-170424DUP	EIY565DUP	Tissue	04/24/17

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 Biphenyls (PCBs) as Congeners by Environmental Protection Agency (EPA) Method 1668A

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 nonconformances 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. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

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 labeled compounds.

The ion abundance ratios 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 unlabeled compounds with the following exceptions:

Date	Standard	Compound	%D	Associated Samples	Flag	A or P
04/19/17	M2170419A_2nd source	PCB-193/180	53.4	All samples in SDG B795167	J (all detects) UJ (all non-detects)	P

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all compounds 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	Сотроилд	Concentration	Associated Samples
5019849MB	05/30/17	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95/95 PCB-68 PCB-85/116/117 PCB-105 PCB-110/115 PCB-110/115 PCB-129/138/163 PCB-153/168 PCB-153/168 PCB-180/193	0.165 ng/g 0.046 ng/g 0.015 ng/g 0.325 ng/g 0.034 ng/g 0.081 ng/g 0.039 ng/g 0.093 ng/g 0.028 ng/g 0.053 ng/g 0.048 ng/g 0.161 ng/g 0.275 ng/g 0.253 ng/g	All samples in SDG B795167

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-GP-OYS-COC-170424	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-68 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0163 ng/g 0.0291 ng/g 0.0294 ng/g 0.0589 ng/g 0.0589 ng/g 0.0860 ng/g 0.0821 ng/g 0.0389 ng/g 0.00214 ng/g 0.0269 ng/g 0.165 ng/g 0.168 ng/g 0.382 ng/g 0.382 ng/g 0.382 ng/g 0.642 ng/g 0.0501 ng/g	0.0163U ng/g 0.0291U ng/g 0.00694U ng/g 0.0589U ng/g 0.0860U ng/g 0.0821U ng/g 0.0389U ng/g 0.00214U ng/g 0.0269U ng/g 0.0471U ng/g 0.165U ng/g 0.168U ng/g 0.382U ng/g 0.642U ng/g 0.0501U ng/g
PG-GP-COC-COC-170424	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0075 ng/g 0.00653 ng/g 0.00184 ng/g 0.0128 ng/g 0.0133 ng/g 0.0132 ng/g 0.00765 ng/g 0.00124 ng/g 0.00848 ng/g 0.0230 ng/g 0.0210 ng/g 0.0577 ng/g 0.0574 ng/g 0.0136 ng/g	0.0075U ng/g 0.00653U ng/g 0.00184U ng/g 0.0128U ng/g 0.0133U ng/g 0.0132U ng/g 0.00765U ng/g 0.00124U ng/g 0.00848U ng/g 0.0230U ng/g 0.0210U ng/g 0.0577U ng/g 0.0574U ng/g 0.0136U ng/g

		Reported	Modified Final
Sample	Compound	Concentration	Concentration
PG-GP-LTN-COC-170424	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0110 ng/g 0.00406 ng/g 0.00075 ng/g 0.00740 ng/g 0.0260 ng/g 0.00866 ng/g 0.00262 ng/g 0.0092 ng/g 0.00257 ng/g 0.00593 ng/g 0.00739 ng/g 0.0298 ng/g 0.0298 ng/g 0.0093 ng/g	0.0110U ng/g 0.00406U ng/g 0.00075U ng/g 0.00740U ng/g 0.00660U ng/g 0.00262U ng/g 0.00092U ng/g 0.00257U ng/g 0.00593U ng/g 0.00739U ng/g 0.0266U ng/g 0.0298U ng/g
PG-WS-OYS-COC-170424	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-68 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0139 ng/g 0.0467 ng/g 0.0101 ng/g 0.0828 ng/g 0.104 ng/g 0.112 ng/g 0.0563 ng/g 0.00262 ng/g 0.0340 ng/g 0.0618 ng/g 0.213 ng/g 0.232 ng/g 0.531 ng/g 0.985 ng/g	0.0139U ng/g 0.0467U ng/g 0.0101U ng/g 0.0828U ng/g 0.104U ng/g 0.112U ng/g 0.0563U ng/g 0.00262U ng/g 0.0340U ng/g 0.0618U ng/g 0.232U ng/g 0.232U ng/g 0.985U ng/g 0.985U ng/g
PG-WS-COC-COC-170425	PCB-11 PCB-20/28 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0131 ng/g 0.00835 ng/g 0.0130 ng/g 0.0147 ng/g 0.0152 ng/g 0.0106 ng/g 0.0107 ng/g 0.0266 ng/g 0.0243 ng/g 0.0624 ng/g 0.0541 ng/g 0.0170 ng/g	0.0131U ng/g 0.00835U ng/g 0.0130U ng/g 0.0147U ng/g 0.0152U ng/g 0.0106U ng/g 0.0107U ng/g 0.0266U ng/g 0.0243U ng/g 0.0624U ng/g 0.0541U ng/g 0.0541U ng/g
PG-WS-LTN-COC-170424	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.00877 ng/g 0.00433 ng/g 0.00071 ng/g 0.0074 ng/g 0.0334 ng/g 0.0116 ng/g 0.00257 ng/g 0.0018 ng/g 0.00272 ng/g 0.0052 ng/g 0.00867 ng/g 0.0294 ng/g 0.0350 ng/g 0.0148 ng/g	0.00877U ng/g 0.00433U ng/g 0.00071U ng/g 0.0074U ng/g 0.0334U ng/g 0.0116U ng/g 0.00257U ng/g 0.0018U ng/g 0.00272U ng/g 0.0052U ng/g 0.00867U ng/g 0.0294U ng/g 0.0350U ng/g 0.0148U ng/g

		Reported	Modified Final
Sample	Compound	Concentration	Concentration
PG-WS-MAN-COC-170424	PCB-11 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0097 ng/g 0.0123 ng/g 0.0104 ng/g 0.0140 ng/g 0.0074 ng/g 0.0040 ng/g 0.0102 ng/g 0.0113 ng/g 0.0401 ng/g 0.0448 ng/g 0.0200 ng/g	0.0097U ng/g 0.0123U ng/g 0.0104U ng/g 0.0140U ng/g 0.0074U ng/g 0.0040U ng/g 0.0102U ng/g 0.0113U ng/g 0.0401U ng/g 0.0448U ng/g 0.0200U ng/g
PG-SMA3-GEO-COC-170426	PCB-20/28 PCB-44/47/65 PCB-52 PCB-66/95 PCB-66/95 PCB-85/116/117 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0322 ng/g 0.0442 ng/g 0.0832 ng/g 0.0508 ng/g 0.0220 ng/g 0.0021 ng/g 0.0155 ng/g 0.106 ng/g 0.0929 ng/g 0.261 ng/g 0.333 ng/g 0.0598 ng/g	0.0322U ng/g 0.0442U ng/g 0.0832U ng/g 0.0508U ng/g 0.0220U ng/g 0.0021U ng/g 0.0155U ng/g 0.106U ng/g 0.0929U ng/g 0.261U ng/g 0.333U ng/g 0.0598U ng/g
PG-SMA3-DUNM-COC-170426	PCB-11 PCB-20/28 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0034 ng/g 0.0527 ng/g 0.0395 ng/g 0.0395 ng/g 0.0572 ng/g 0.0522 ng/g 0.0269 ng/g 0.0289 ng/g 0.0438 ng/g 0.0708 ng/g 0.122 ng/g 0.555 ng/g 0.574 ng/g 0.157 ng/g	0.0034U ng/g 0.0527U ng/g 0.0395U ng/g 0.0572U ng/g 0.0522U ng/g 0.0269U ng/g 0.0289U ng/g 0.0438U ng/g 0.0708U ng/g 0.122U ng/g 0.555U ng/g 0.574U ng/g 0.157U ng/g
PG-SMA3-DUNH-COC-170426	PCB-11 PCB-22 PCB-44/47/65 PCB-68	0.0127 ng/g 0.0647 ng/g 1.01 ng/g 0.0136 ng/g	0.0127U ng/g 0.0647U ng/g 1.01U ng/g 0.0136U ng/g
PG-PJ-OYS-COC-170427	PCB-20/28 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-105 PCB-110/115 PCB-118 PCB-153/168	0.0129 ng/g 0.0354 ng/g 0.0407 ng/g 0.0482 ng/g 0.0226 ng/g 0.0307 ng/g 0.0954 ng/g 0.0963 ng/g 0.325 ng/g	0.0129U ng/g 0.0354U ng/g 0.0407U ng/g 0.0482U ng/g 0.0226U ng/g 0.0307U ng/g 0.0954U ng/g 0.0963U ng/g 0.325U ng/g

Sample	Compound	Reported Concentration	Modified Final Concentration
PG-PJ-COC-COC-170427	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-105 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.00602 ng/g 0.00433 ng/g 0.00121 ng/g 0.0113 ng/g 0.00783 ng/g 0.00721 ng/g 0.00416 ng/g 0.00196 ng/g 0.00427 ng/g 0.0111 ng/g 0.0365 ng/g 0.0368 ng/g 0.00717 ng/g	0.00602U ng/g 0.00433U ng/g 0.00121U ng/g 0.00113U ng/g 0.00783U ng/g 0.00721U ng/g 0.00416U ng/g 0.00427U ng/g 0.00111U ng/g 0.0111U ng/g 0.0365U ng/g 0.0368U ng/g 0.00717U ng/g
PG-PJ-LTN-COC-170427	PCB-11 PCB-20/28 PCB-44/47/65 PCB-45 PCB-61/70/74/76 PCB-68 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0109 ng/g 0.00413 ng/g 0.0143 ng/g 0.0124 ng/g 0.00750 ng/g 0.00272 ng/g 0.00182 ng/g 0.00295 ng/g 0.00921 ng/g 0.00837 ng/g 0.0314 ng/g 0.0371 ng/g 0.00892 ng/g	0.0109U ng/g 0.00413U ng/g 0.0143U ng/g 0.0124U ng/g 0.00750U ng/g 0.00272U ng/g 0.00182U ng/g 0.00295U ng/g 0.00921U ng/g 0.00837U ng/g 0.0314U ng/g 0.0371U ng/g 0.00892U ng/g
PG-PJ-MAN-COC-170427	PCB-52 PCB-61/70/74/76 PCB-118 PCB-129/138/163 PCB-153/168	0.0093 ng/g 0.0100 ng/g 0.0150 ng/g 0.045 ng/g 0.043 ng/g	0.0093U ng/g 0.0100U ng/g 0.0150U ng/g 0.045U ng/g 0.043U ng/g
PG-PJ-HC-COC-170428	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-88 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.00756 ng/g 0.00417 ng/g 0.00115 ng/g 0.00133 ng/g 0.00955 ng/g 0.00975 ng/g 0.00495 ng/g 0.00224 ng/g 0.00301 ng/g 0.00178 ng/g 0.0181 ng/g 0.0181 ng/g 0.0601 ng/g 0.0708 ng/g 0.0708 ng/g	0.00756U ng/g 0.00417U ng/g 0.00115U ng/g 0.00133U ng/g 0.00955U ng/g 0.00972U ng/g 0.00495U ng/g 0.00224U ng/g 0.00301U ng/g 0.00845U ng/g 0.0178U ng/g 0.0181U ng/g 0.0601U ng/g 0.0708U ng/g 0.0708U ng/g

Sample	Compound	Reported Concentration	Modified Final Concentration
PG-PJ-MUS-COC-170427	PCB-11 PCB-20/28 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-68 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.00808 ng/g 0.00614 ng/g 0.0176 ng/g 0.0163 ng/g 0.0182 ng/g 0.00874 ng/g 0.00232 ng/g 0.00721 ng/g 0.0147 ng/g 0.0305 ng/g 0.0376 ng/g 0.0971 ng/g 0.129 ng/g 0.0166 ng/g	0.00808U ng/g 0.00614U ng/g 0.00163U ng/g 0.0163U ng/g 0.0182U ng/g 0.00874U ng/g 0.00232U ng/g 0.00721U ng/g 0.0305U ng/g 0.0376U ng/g 0.0376U ng/g 0.129U ng/g 0.0166U ng/g

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Matrix Spike/Matrix Spike Duplicates/Duplicates

Matrix spike (MS) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits.

Duplicate (DUP) 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) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Internal Standards

All internal standard recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Affected Compound	Flag	A or P
PG-WS-MAN-COC-170424	¹³ C-PCB-169	13 (25-150)	PCB-169	UJ (all non-detects)	Р

Sample	Internal Standards	%R (Limits)	Affected Compound	Flag	A or P
PG-SMA3-GEO-COC-170426	¹³ C-PCB-202 ¹³ C-PCB-180 ¹³ C-PCB-189	176 (25-150) 155 (25-150) 151 (25-150)	PCB-202 PCB-201 PCB-204 PCB-197 PCB-200 PCB-198/199 PCB-196 PCB-195 PCB-195 PCB-194 PCB-179 PCB-184 PCB-176 PCB-186 PCB-178 PCB-187 PCB-187 PCB-183 PCB-183 PCB-185 PCB-174 PCB-177 PCB-181 PCB-177 PCB-181 PCB-177 PCB-181 PCB-172 PCB-189 PCB-190 PCB-189	J (all detects) UJ (all non-detects)	P
PG-SMA3-DUNH-COC-170426	¹³ C-PCB-202	154 (25-150)	PCB-202 PCB-201 PCB-204 PCB-197 PCB-200 PCB-198/199 PCB-196 PCB-203 PCB-195 PCB-194	J (all detects) UJ (all non-detects)	Р
PG-PJ-LTN-COC-170427	¹³ C-PCB-180	151 (25-150)	PCB-179 PCB-184 PCB-176 PCB-186 PCB-178 PCB-175 PCB-187 PCB-182 PCB-183 PCB-185 PCB-174 PCB-177 PCB-181 PCB-177 PCB-181 PCB-171/173 PCB-172 PCB-192 PCB-180/193 PCB-191 PCB-170 PCB-190	J (all detects) UJ (all non-detects)	Р

XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDG B795167	Results were flagged (1) by the laboratory to indicate results reported as estimated maximum possible concentration (EMPC)	J (all detects)	А

Raw data were not reviewed for Stage 2B validation.

XII. Target Compound Identification

Raw data were not reviewed for Stage 2B validation.

XIII. System Performance

Raw data were not reviewed for Stage 2B validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to ICV %D, internal standards %R, and results reported by the laboratory as EMPC, data were qualified as estimated in six samples.

Due to laboratory blank contamination, data were qualified as not detected in sixteen samples.

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 Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG B795167

Sample	Compound	Flag	A or P	Reason
PG-GP-OYS-COC-170424 PG-GP-COC-COC-170424 PG-GP-LTN-COC-170424 PG-WS-OYS-COC-170424 PG-WS-COC-COC-170425 PG-WS-LTN-COC-170424 PG-WS-MAN-COC-170424 PG-SMA3-GEO-COC-170426 PG-SMA3-DUNH-COC-170426 PG-SMA3-DUNH-COC-170427 PG-PJ-COC-COC-170427 PG-PJ-COC-COC-170427 PG-PJ-HTN-COC-170427 PG-PJ-HTN-COC-170427 PG-PJ-HC-COC-170427 PG-PJ-HC-COC-170427	PCB-180/193	J (all detects) UJ (all non-detects)	P	Initial calibration verification (%D)
PG-WS-MAN-COC-170424	PCB-169	J (all detects) UJ (all non-detects)	Р	Internal standards (%R)
PG-SMA3-GEO-COC-170426	PCB-202 PCB-201 PCB-204 PCB-197 PCB-200 PCB-198/199 PCB-196 PCB-203 PCB-195 PCB-195 PCB-194 PCB-179 PCB-186 PCB-176 PCB-186 PCB-178 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-187 PCB-177 PCB-181 PCB-177 PCB-181 PCB-170 PCB-190 PCB-189	J (all detects) UJ (all non-detects)	P	Internal standards (%R)

Sample	Compound	Flag	A or P	Reason
PG-SMA3-DUNH-COC-170426	PCB-202 PCB-201 PCB-204 PCB-197 PCB-200 PCB-198/199 PCB-196 PCB-203 PCB-195 PCB-194	J (all detects) UJ (all non-detects)	P	Internal standards (%R)
PG-PJ-LTN-COC-170427	PCB-179 PCB-184 PCB-176 PCB-186 PCB-178 PCB-175 PCB-187 PCB-182 PCB-183 PCB-185 PCB-174 PCB-177 PCB-181 PCB-177/ PCB-181 PCB-171/173 PCB-172 PCB-192 PCB-180/193 PCB-190 PCB-190	J (all detects) UJ (all non-detects)	Р	Internal standards (%R)
PG-GP-OYS-COC-170424 PG-GP-COC-COC-170424 PG-GP-LTN-COC-170424 PG-WS-OYS-COC-170424 PG-WS-COC-COC-170425 PG-WS-LTN-COC-170424 PG-WS-MAN-COC-170424 PG-SMA3-GEO-COC-170426 PG-SMA3-DUNM-COC-170426 PG-SMA3-DUNH-COC-170427 PG-PJ-COC-COC-170427 PG-PJ-LTN-COC-170427 PG-PJ-HC-COC-170427 PG-PJ-HC-COC-170427	Results were flagged (1) by the laboratory to indicate results reported as estimated maximum possible concentration (EMPC).	J (all detects)	A	Compound quantitation (EMPC)

Port Gamble, Shellfish Monitoring Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG B795167

Sample	Compound	Modified Final Concentration	A or P
PG-GP-OYS-COC-170424	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-68 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0163U ng/g 0.0291U ng/g 0.00694U ng/g 0.0589U ng/g 0.0860U ng/g 0.0821U ng/g 0.0389U ng/g 0.00214U ng/g 0.0269U ng/g 0.165U ng/g 0.168U ng/g 0.382U ng/g 0.642U ng/g 0.0501U ng/g	A
PG-GP-COC-COC-170424	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-68 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0075U ng/g 0.00653U ng/g 0.00184U ng/g 0.0128U ng/g 0.0133U ng/g 0.0132U ng/g 0.00765U ng/g 0.00124U ng/g 0.00848U ng/g 0.0230U ng/g 0.0210U ng/g 0.0577U ng/g 0.0574U ng/g 0.0136U ng/g	A
PG-GP-LTN-COC-170424	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0110U ng/g 0.00406U ng/g 0.00075U ng/g 0.00740U ng/g 0.0260U ng/g 0.00262U ng/g 0.00257U ng/g 0.00257U ng/g 0.00593U ng/g 0.00739U ng/g 0.0266U ng/g 0.0298U ng/g 0.0298U ng/g	А

Sample	Compound	Modified Final Concentration	A or P
PG-WS-OYS-COC-170424	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-66/95 PCB-68 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0139U ng/g 0.0467U ng/g 0.0467U ng/g 0.0101U ng/g 0.0828U ng/g 0.104U ng/g 0.112U ng/g 0.0563U ng/g 0.00262U ng/g 0.0340U ng/g 0.0618U ng/g 0.213U ng/g 0.232U ng/g 0.531U ng/g 0.985U ng/g 0.0618U ng/g	A
PG-WS-COC-COC-170425	PCB-11 PCB-20/28 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0131U ng/g 0.00835U ng/g 0.0130U ng/g 0.0147U ng/g 0.0152U ng/g 0.0106U ng/g 0.0107U ng/g 0.0266U ng/g 0.0243U ng/g 0.0624U ng/g 0.0541U ng/g 0.0170U ng/g	A
PG-WS-LTN-COC-170424	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.00877U ng/g 0.00433U ng/g 0.00071U ng/g 0.0074U ng/g 0.0334U ng/g 0.0116U ng/g 0.00257U ng/g 0.0018U ng/g 0.00272U ng/g 0.0052U ng/g 0.00867U ng/g 0.0294U ng/g 0.0350U ng/g 0.0148U ng/g	A
PG-WS-MAN-COC-170424	PCB-11 PCB-44/47/65 PCB-52 PCB-66/95 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0097U ng/g 0.0123U ng/g 0.0104U ng/g 0.0140U ng/g 0.0074U ng/g 0.0040U ng/g 0.0102U ng/g 0.0113U ng/g 0.0401U ng/g 0.0448U ng/g 0.0200U ng/g	А

Sample	Compound	Modified Final Concentration	A or P
PG-SMA3-GEO-COC-170426	PCB-20/28 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-68 PCB-85/116/117 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0322U ng/g 0.0442U ng/g 0.0832U ng/g 0.0508U ng/g 0.0220U ng/g 0.0021U ng/g 0.0155U ng/g 0.106U ng/g 0.0929U ng/g 0.261U ng/g 0.333U ng/g 0.0598U ng/g	А
PG-SMA3-DUNM-COC-170426	PCB-11 PCB-20/28 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0034U ng/g 0.0527U ng/g 0.0395U ng/g 0.0572U ng/g 0.0522U ng/g 0.0269U ng/g 0.0289U ng/g 0.0438U ng/g 0.0708U ng/g 0.122U ng/g 0.555U ng/g 0.5574U ng/g 0.157U ng/g	A
PG-SMA3-DUNH-COC-170426	PCB-11 PCB-22 PCB-44/47/65 PCB-68	0.0127U ng/g 0.0647U ng/g 1.01U ng/g 0.0136U ng/g	A
PG-PJ-OYS-COC-170427	PCB-20/28 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-105 PCB-110/115 PCB-118 PCB-153/168	0.0129U ng/g 0.0354U ng/g 0.0407U ng/g 0.0482U ng/g 0.0226U ng/g 0.0307U ng/g 0.0954U ng/g 0.0963U ng/g 0.325U ng/g	Α
PG-PJ-COC-COC-170427	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-68 PCB-105 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.00602U ng/g 0.00433U ng/g 0.00121U ng/g 0.00121U ng/g 0.00783U ng/g 0.00721U ng/g 0.00416U ng/g 0.00196U ng/g 0.00427U ng/g 0.0111U ng/g 0.0365U ng/g 0.0368U ng/g 0.00717U ng/g	А

Sample	Compound	Modified Final Concentration	A or P
PG-PJ-LTN-COC-170427	PCB-11 PCB-20/28 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.0109U ng/g 0.00413U ng/g 0.0143U ng/g 0.0124U ng/g 0.00750U ng/g 0.00272U ng/g 0.00182U ng/g 0.00295U ng/g 0.00921U ng/g 0.00837U ng/g 0.0314U ng/g 0.0371U ng/g 0.00892U ng/g	A
PG-PJ-MAN-COC-170427	PCB-52 PCB-61/70/74/76 PCB-118 PCB-129/138/163 PCB-153/168	0.0093U ng/g 0.0100U ng/g 0.0150U ng/g 0.045U ng/g 0.043U ng/g	A
PG-PJ-HC-COC-170428	PCB-11 PCB-20/28 PCB-22 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-66/95 PCB-68 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.00756U ng/g 0.00417U ng/g 0.00115U ng/g 0.0113U ng/g 0.00955U ng/g 0.00972U ng/g 0.00495U ng/g 0.00224U ng/g 0.00301U ng/g 0.00845U ng/g 0.0178U ng/g 0.0181U ng/g 0.0601U ng/g 0.0708U ng/g	A
PG-PJ-MUS-COC-170427	PCB-11 PCB-20/28 PCB-44/47/65 PCB-52 PCB-66/95 PCB-68 PCB-85/116/117 PCB-105 PCB-110/115 PCB-118 PCB-129/138/163 PCB-153/168 PCB-180/193	0.00808U ng/g 0.00614U ng/g 0.0176U ng/g 0.0163U ng/g 0.0182U ng/g 0.00874U ng/g 0.00232U ng/g 0.00721U ng/g 0.0147U ng/g 0.0305U ng/g 0.0376U ng/g 0.0971U ng/g 0.129U ng/g 0.129U ng/g	

DC #: 38928A31	VALIDATION COMPLETENESS WORKSHEET
SDG #: <u>B795</u> 167	Stage 2B
aboratory: Maxxam	

Page: 1 of Reviewer: M 2nd Reviewer: C/L

METHOD: HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

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	
1.	Sample receipt/Technical holding times	AIA		
II.	HRGC/HRMS Instrument performance check	A		
111.	Initial calibration/ICV	A/A	1CAL = 20 % NL/L COI = 30 % NL/50 % L	101 £ 30 2 W /502
IV.	Continuing calibration	A	Ca) = 30 % UL/50 % L	,
V.	Laboratory Blanks	SW		
VI.	Field blanks	N		
VII.	Matrix spike/Matrix spike duplicates / LD	A/A	Ms only	
VIII.	Laboratory control samples	Å	LCS 10	
IX.	Field duplicates	N		
X.	Internal standards	SW)		
XI.	Compound quantitation RL/LOQ/LODs	SM		
XII.	Target compound identification .	N		
XIII.	System performance	N		
XIV.	Overall assessment of data	A		

Note: A = Acceptable

N = Not provided/applicable

ND = No compounds detected

R = Rinsate

D = Duplicate TB = Trip blank SB=Source blank OTHER:

SW = See worksheet

FB = Field blank

EB = Equipment blank

Client ID Lab ID Matrix Date EIY560 04/24/17 PG-GP-OYS-COC-170424 Tissue 2 PG-GP-COC-COC-170424 EIY561 Tissue 04/24/17 04/24/17 3 PG-GP-LTN-COC-170424 EIY562 Tissue **EIY563** Tissue 04/24/17 4 PG-WS-OYS-COC-170424 5 PG-WS-COC-COC-170425 EIY564 Tissue 04/25/17 6 EIY565 Tissue 04/24/17 PG-WS-LTN-COC-170424 04/24/17 PG-WS-MAN-COC-170424 EIY566 Tissue 8 PG-SMA3-GEO-COC-170426 EIY567 Tissue 04/26/17 9 EIY568 Tissue 04/26/17 PG-SMA3-DUNM-COC-170426 10 PG-SMA3-DUNH-COC-170426 EIY569 Tissue 04/26/17 EIY570 04/27/17 11 PG-PJ-OYS-COC-170427 Tissue EIY571 04/27/17 12 PG-PJ-COC-COC-170427 Tissue EIY572 Tissue 04/27/17 13 PG-PJ-LTN-COC-170427 EIY573 04/27/17 PG-PJ-MAN-COC-170427 Tissue

	#: 38928A31 #: B795167	VALIDATION CO	MPLETENESS WORKSHE Stage 2B	ET	Date: <u>06/2</u> Page: <u>1</u> 2 of
.abo	ratory: Maxxam		ongeners (EPA Method 1668A)	2nd	Reviewer: <u> </u>
	Client ID		Lab ID	Matrix	Date
15	PG-PJ-HC-COC-170428		EIY574	Tissue	04/28/17
6	PG-PJ-MUS-COC-170427	7	EIY575	Tissue	04/27/17
7	PG-GP-OYS-COC-17042	4MS	EIY560MS	Tissue	04/24/17
8	PG-WS-LTN-COC-17042	4DUP	EIY565DUP	Tissue	04/24/17
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LDC# 38928 A31

VALIDATION FINDINGS WORKSHEET

Page: 1 of

2nd Reviewer:__ Reviewer:_

Initial Calibration Verification

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

| N/A | Was an initial calibration verification standard analyzed after each ICAL for each instrument?
| N/A | N/A | Were all %D within the validation criteria of ≤30 % for unlabeled and ≤50 % for labeled compounds?

Qualifications	J/45/P						,									
Associated Samples	An (NO +Det)															
Finding %D (Limit: %	180 53.4	19.5														
Compou	1 source PCB-193/180															
Standard ID	M2 170419A_2nd source															
# Date	04/10/12														,	

LDC #: 38928A31

VALIDATION FINDINGS WORKSHEET Blanks

Page: \ of 2 Reviewer: JVG 2nd Reviewer:_

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A"

Were all samples associated with a method blank?

Was a method blank performed for each matrix and whenever a sample extraction was performed? N N/A Y N N/A

Was the method blank contaminated? If yes, please see qualification below KN N/A

Blank analysis date: 05/30/17 Slank extraction date:

Conc. units: ng/g

Associated samples: 06/08/17

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6322 0, 6832 2445 0.0220 0.0926 333 0.0175 0.0621 0.0508 0.06 0. 26 | S 9 ø. 0.0040 0.6/02 0.0074 0.013 0,0448 0097 0.0104 6.0/25 0.0401 0.0.40 ຈໍ 0.00257 0,00272 0.00867 0.00433 0.0334 0-6052 0.0294 0.00877 0.0350 0.0007 0,0074 D. 0018 0,016 و 56890 0.0624 0.0243 0.0152 6,0541 Sample Identification 0.6130 0.0266 0.0106 0.0147 0.0107 0.0131 o. 6,00262 0.0828 0.6563 0,0240 0.06/8 0.0139 0.985 0.282 0. 2 3 0.0467 0.010) 0. 5 0.5% 0. 104 4 0.00257 5.00 262 0.00593 0.00739 0.0298 93800.9 0.00092 0.0260 2.0007S 0.0074 0:010 90/00.9 0.0266 'n 00848 5,000 0.00184 6.0133 0.00 /24 0.0574 0, 0258 6.00659 6,0132 0.0577 8075 0.0210 0.0 28 Ø ö ó D.00694 0.0034 0.642 0.0589 0.0163 0.0860 0.0389 0.0269 0. 382 0.082 0.029 0.647 0. 65 891.0 0.140 0.240 0.230 0.075 1.625 0.170 0.405 0.465 0.265 0.805 1.375 1.265 0.825 0.195 ž Blank 5019849MB 0.046 0.015 0.028 0.275 0.253 0.165 0.325 0.034 0.039 0.093 0.053 0.048 0.081 0.161 Compound PCB-129/138/163 PCB-61/70/74/76 PCB-85/116/117 PCB-44/47/65 PCB-110/115 PCB-153/168 PCB-20/28 PCB-105 PCB-118 PCB-22 PCB-66 PCB-68 PCB-52 PCB-11

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".

8650.0

0.0200

0.0148

0,0/70

0,06/8

0,0093

0.6136

0.0501

0.540

0.108

PCB-180/193

LDC #: 38928A31

VALIDATION FINDINGS WORKSHEET

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Reviewer: JVG

2nd Reviewer:

Blanks

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A". N/A

Were all samples associated with a method blank?

Was a method blank performed for each matrix and whenever a sample extraction was performed? N N N

Was the method blank contaminated? If yes, please see qualification below.

Blank analysis date: 06/08/17 Blank extraction date: 05/30/17 Y/N N/A

Associated samples:

Oval U ₹ Conc. units: ng/g

6/8::: 10:::::::::::::::::::::::::::::::::					יייייייייייייייייייייייייייייייייייייי	According Samples.	=			
Compound	Blank					Sample Ic	Sample Identification			
	5019849MB	5x	6	01	1	12	13	14	15	16
PCB-11	0.165	0.825	6.0034	0.0127		0,00602	0.0169		6.00756	0.00808
PCB-20/28	0.046	0.230	0.0527	,	6.0129	0.00 433	0.00413		0.00417	0.00614
PCB-22	0.015	0.075		0.0647	`	0.00121			0.001/5	
PCB-44/47/65	0.325	1.625	0.0395	1, 01	0.0354	0.0113	6. 0145		0.0133	0.0176
PCB-52	0.034	0.170	0.0572		0.0407	0.00783	6,0124	6.0093	0.00955	0.0163
PCB-61/70/74/76	0.081	0.405	0.0522		0.0482	0.00721	05290'0	0,0100	0.00972	0.0182
PCB-66	0.039	0.195	0.0269		0.0226	0.00416			0.00495	0.06874
PCB-68	0.093	0.465		0.0136		0.00196	0.00272		0.00224	0. 00232
PCB-85/116/117	0.028	0.140	0.0289			•	0, 00 182		0.00301	0.0072)
PCB-105	0.053	0.265	0.0498		0.0307	0.00427	0.00295		0.00845	0.0147
PCB-110/115	0.048	0.240	0.6708		0.0954		0.06421	•	0.0178	0.0305
PCB-118	0.161	0.805	0. 22		0.6963	0.0111	6. 66837	0.0150	0.0181	0.0376
PCB-129/138/163	0.275	1.375	0. 555			0.0365	0.6314	0.045	0.0601	0.0971
PCB-153/168	0.253	1.265	0.574		0. 325	0.0368	0.0371	0.043	0,0708	0. 129
PCB-180/193	0.108	0.540	0.157			0.00717	Ø.00892		0.00477	0,0166
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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".

LDC#. 28928 A31

VALIDATION FINDINGS WORKSHEET Internal Standards

Page: lof 1

Reviewer: 2nd Reviewer.

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y(N) N/A

Are all internal standard recoveries within the 25-150% criteria?

Y N (N/A)

Was the lon Abundance Ratio within criteria?

Y N (N/A)

Was the S/N ratio all internal standard peaks > 10?

	9	1	<u>t</u>	<u>`</u>	7		ts:/		ラク					 												
Qualifications	J/13/8 Cqual PCB-1697	•	(408-200) See 1	(PCB-180 1193)	(PCB - 1847)		(PA-201)See	_	1 (PCB - 150 / 193)	*																
:: 25-150%)	(25-150)	(,)	((()	()		()		()	(:)	(<u> </u>	(((()	()	()	()	()	()	(()	
% Recovery (Limit: 25-150%)	<u>&</u>		9/1	15%	(5)		<u>es</u>		<u> </u>																	
Internal Standard	13C - PCB-169		13C- PCB-202	13c- PCB- 180	12- pc8-189	•	12c- PCB-262		PC- PCB- 180				,													
Lab ID/Reference		1	8 (Det 7- NO)		(M)		to (net+ha)	Ì	(3 (Pet + ND)																	
# Date																<u>'</u>										

Cl # (1)	IUPAC# (2,3)	Retention Time Ref. (4)	Quantitation Reference (5)					
6	153	167L	155L/167L/156L/157L/169L					
6	168	167L	155L/167L/156L/157L/169L					
6	153/168	167L	155L/167L/156L/157L/169L					
6	141	167L	155L/167L/156L/157L/169L					
5	130	167L	155L/167L/156L/157L/169L					
6	137	167L	155L/167L/156L/157L/169L					
6	164	167L	155L/167L/156L/157L/169L					
6	138	167L	155L/167L/156L/157L/169L					
6	163	167L	155L/167L/156L/157L/169L					
6	129	167L	155L/167L/156L/157L/169L					
6	160	167L	155L/167L/156L/157L/169L					
6	138/163/129/160	167L	155L/167L/156L/157L/169L					
6	158	167L	155L/167L/156L/157L/169L					
6	166	167L	155L/167L/156L/157L/169L					
6	128	167L	155L/167L/156L/157L/169L					
6	128/166	167L	155L/167L/156L/157L/169L					
6	159	167L	155L/167L/156L/157L/169L					
6	162	167L	155L/167L/156L/157L/169L					
6	167	167L	167L					
6	156	156L/157L	156L/157L					
6	157	156L/157L	156L/157L					
6	156/157	156L/157L	156L/157L					
6	169 🗸	169L	169L ✓					
Labeled	Labeled compounds							
6	155L	138L	138L					
6	167L	138L	138L					
6	156L	138L	138L					
6	157L	138L	138L					
6	156L/157L	138L	138L					
1								

Compounds using 194L (13C12-2,2'3,3',4,4',5,5'-OcCB) as Labeled injection internal standard CB Congener

Heptachlorobiphenyls

169L

Reptaciii	oronipnenyis		
7	188	188L	188L
7	PCB-179	188L (パンピー)	068-180 188L/180L/170L/189L
7	184	188L	188L/180L/170L/189L
7	176	188L	188L/180L/170L/189L
7	186	188L	188L/180L/170L/189L
7	178	188L	188L/180L/170L/189L
7	175	188L	188L/180L/170L/189L
7	187	188L	188L/180L/170L/189L

138L

138L

Cl # (1)	IUPAC# (2,3)	Retention Time Ref. (4)	Quantitation Reference (5)
7	182	188L	188L/180L/170L/189L
7	183	180L	188L/180L/170L/189L
7	185	180L	188L/180L/170L/189L
7	183/185	180L	188L/180L/170L/189L
7	174	180L	188L/180L/170L/189L
7	177	180L	188L/180L/170L/189L
7	181	180L	188L/180L/170L/189L
7	171	180L	188L/180L/170L/189L
7	173	180L	188 L/ 180 L/170L/189 L
7	171/173	180L	188L/180L/170L/189L
7	172	180L	188L/180L/170L/189L
7	192	180L	188L/180L/170L/189L
7	193	180L	188L/180L/170L/189L
7	180	180L	180L
7	180/193	180L	180L
7	191	180L	188L/180L/170L/189L
7	170	170L	170L
7	190	170L	188L/180L/170L/189L
7	189 🗸	189L 🗸	189L_/

Octachlorobiphenyls 13C-PCB-2021 PCB- 202 202L 8 202L/205L 201 202L 8 202L/205L 204 202L 8 202L/205L 8 197 202L 202L/205L 200 202L 8 197/200 8 202L 202L/205L 202L/205L 202L 8 198 202L/205L 202L 8 199 202L/205L 8 198/199 202L 202L/205L 205L 8 1**9**6 205L 202L/205L 8 203 202L/205L 205L 8 195 202L/205L 194 205L 8 205L 205 205L 8

Nonachlorobiphenyls

9	208	208L	208L
9	207	208L	206L/208L
9	206	206L	206L

LDC# 28/28/43/

VALIDATION FINDINGS WORKSHEET Compound Quantitation and RLs

Page: Lof Reviewer:

Reviewer: CM2 2nd Reviewer:

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound? Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary). N N N N/A

(Reported concentration at an elevated EDL)		Sample ID	Compound	Finding	Qualifications
(Reported concentration at an elevated EDL)		All		EMPC results flagged (1) by the lab	Jdets/A
				(Reported concentration at an elevated EDL)	
					-
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LDC#:38928

EDD POPULATION COMPLETENESS WORKSHEET

Anchor

Date: _____Of_1
Page: ____of_1
2nd Reviewer:

The LDC job number listed above was entered by <u>SA</u>

	EDD P	VAT	T-:4*	ما	Commental Latina
	EDD Process	Y/N	Initi	al	Comments/Action
I	EDD Completeness	-	1		
Ia.	- All methods present?	Y	BA	\	
Ib.	- All samples present/match report?	Y			
lc.	- All reported analytes present?	Y			
Id.	- 10% or 100% verification of EDD?	Υ			
				9 . (C	
II.	EDD Preparation/Entry	<u>-</u>			
Ila.	- QC Level applied? (EPAStage2B or EPAStage4)	4			
IIb.	- Laboratory EMPC qualified results qualified (J with reason code 23)?	NIA			Lab EmpCquelifier (7) is missing in the EDD.
				k,	Section 1
III.	Reasonableness Checks	-			
IIIa.	- Do all qualified ND results have ND qualifier (e.g. UJ)?	Y			
IIIb.	- Do all qualified detect results have detect qualifier (e.g. J)?	Υ_			
IIIc.	- If reason codes are used, do all qualified results have reason code field populated, and vice versa?	4			
IIId.	- Do blank concentrations in report match EDD, where data was qualified due to blank?	Υ			
Ille.	- Is the detect flag set to "N" for all "U" qualified blank results?	7		į	
IIIf.	- Were there multiple results due to dilutions/reanalysis? If so, were results qualified appropriately?	N/A			
IIIg.	-Are all results marked reportable "Yes" unless rejected for overall assessment in the data validation report?	4			
Illh.	-Are there any lab "R" qualified data? / Are the entry columns blank for these results?	N/A			
IIIi.	-Are there any discrepancies between the data packet and the EDD?	N	,	*	

Notes:	*see discrepancy sheet	<u></u>	
			

Appendix B Revised Final Design Memorandum – SMA-2 Dredge Plan Modifications



720 Olive Way, Suite 1900 Seattle, Washington 98101 Phone 206.287.9130 Fax 206.287.9131 www.anchorgea.com

October 17, 2016

DRAFT MEMORANDUM

To: Arthur Kapell, Washington State Department **Date:**

of Ecology

From: John Laplante, P.E., Anchor QEA Project: 160388-01.01 T02

Cc: Linda Berry-Maraist, PR/OPG

Clay Patmont, Anchor QEA

Re: Revised Final Design Memorandum

SMA-2 Dredge Plan Modifications Port Gamble Bay Cleanup Project



This memorandum summarizes engineering evaluations supporting design refinements of dredge prisms and scour aprons in Sediment Management Area 2 (SMA-2) for the Port Gamble Bay Cleanup Project (Project). The engineering evaluations discussed herein include geotechnical assessment of slope stability, as well as contingency measures that will be used in the event that additional wood waste is encountered after the planned dredge cut elevations are reached. The design revisions presented in this memorandum reflect feedback from and discussions with the Washington Department of Ecology (Ecology) on the various options for revising the dredge design in this area, and incorporate final revisions based on comments provided by Ecology on our October 3, 2016 memorandum.

BACKGROUND

As discussed in our June 13, 2016, memorandum (Anchor QEA 2016), the SMA-2 dredge prism has been refined to optimize wood waste removal in this area, incorporating the results of jet probing conducted in the spring of 2016 to more accurately delineate the extent of wood waste in this area.

Over the course of spring and summer 2016, Anchor QEA prepared several alternatives for refining the dredge prism. Based on discussions with Ecology, the final design combines elements of these alternatives with the intent to balance habitat and slope stability. The final

selected design is presented in this memorandum. Accordingly, this memorandum updates and supersedes all prior design memoranda on the same subject.

The final dredge prism presented herein is based on the refined contact elevation between wood waste and underlying native sediments along the northern portion of SMA-2, which requires steeper dredge cut slopes than those described in the Engineering Design Report (EDR) for the Project (Anchor QEA 2015). The following discussion describes both the geotechnical evaluations that were conducted to confirm the protectiveness of the revised design, as well as contingency measures for managing unexpected deposits of wood waste that could be encountered below the planned dredge surface.

GEOTECHNICAL ENGINEERING EVALUATION METHODS

Consistent with the EDR methodology, slope stability of the revised dredge prism was evaluated using limit equilibrium methods (LEM) with the software package Slide 7.0 (Rocscience). As was done for the EDR dredge prism, conservative model input parameters were used to evaluate the revised dredge prism to compute the factor of safety (FOS) against sliding. A FOS less than 1 implies that there is potential movement of the constructed side slope.

The LEM evaluation considered both long-term static factors of safety, as well as factors of safety during a design-level earthquake (seismic evaluation). In addition to calculating seismic factors of safety, potential slope deformations during an earthquake were assessed using a simplified sliding block model as first proposed by Newmark (1965) for estimating seismic slope performance, consistent with similar evaluations presented in the EDR. The LEM model was used to compute a "yield acceleration" for the various slope transects, and this yield acceleration was compared to the seismic acceleration during the 475-year earthquake to estimate deformation, as described and using the methods presented in the EDR.

Slope Stability Evaluation Results

The final design uses dredge cut side slopes of 2 horizontal to 1 vertical (2H:1V) and 2.5H:1V, depending on location. Where the steeper 2H:1V dredge cuts are used, the slope will be

backfilled using angular gravel with a 1-foot thick rounded substrate habitat overlay, to a final slope configuration no steeper than 2.5H:1V. Figure 1 presents a plan view of the final dredge prism design, and Figure 2 through Figure 10 presents cross sections for Transects 1 through 9. The final design slopes would require removal of some of the intertidal cap constructed during Season 1, and might also require removing some clean material beneath the wood waste contact. Table 1 summarizes the LEM factors of safety associated with this design. Based on the results presented in Table 1, the final SMA-2 design refinement meets appropriate factors of safety and tolerable seismic deformations that are consistent with design presented in the approved EDR. Deformations predicted for these slopes are less than the design cap thickness, and as such pose negligible risk to the protectiveness of the cap during and following a design-level earthquake.

Table 1
Slope Stability Factors of Safety

Transect	Cut Slope Angle (H:V)	Post-dredge Backfill	Long-Term Factor of Safety	Seismic Factor of Safety	Seismic Yield Acceleration	Estimated Seismic Deformation
1	2:1	Yes	1.93	0.93	0.15	1 to 2 inches
2	2:1	Yes	2.04	0.99	0.17	1 to 2 inches
3	2:1	Yes	1.85	0.94	0.17	1 to 2 inches
4	2.5:1	No	1.78	0.82	0.12	3 to 6 inches
5	2.5:1	No	1.84	0.85	0.13	3 to 6 inches
6	2.5:1	No	1.78	0.82	0.12	3 to 6 inches
7	2.5:1	No	1.79	0.82	0.12	3 to 6 inches
8*	2.5:1	No	1.71	0.81	0.12	3 to 6 inches
9*	2.5:1	No	1.62	0.82	0.12	3 to 6 inches

^{*} Factors of safety reported for initial dredge cut to elevation -35 feet MLLW. Removal of deeper deposits that may be present at the toe of slope would reduce the factors of safety as follows: Long-term: 0.88; Seismic: 0.45.

OVEREXCAVATION AND CAPPING CONTINGENCY MEASURES

It is possible that additional deep deposits will be encountered that were not identified by the probing. As described in the CQAP, deposits of sediment with TVS > 15% that are greater than 6 inches thick will require additional cleanup action. Depending on the location of these deposits, different contingency measures will be employed as discussed subsequently.

Contingency Measures in Shallower Water Areas

It is possible that deposits of wood waste may be encountered below the revised dredge prism at elevations shallower than -20 feet MLLW (i.e. "shallower water areas"), which is the elevation above which Ecology has expressed a strong preference for full removal. This section discusses contingency actions in the event that post-dredge sampling encounters significant deposits, as defined by the CQAP, above elevation -20 MLLW.

In areas where significant deposits are encountered in the post-dredge confirmation sampling above elevation -20 MLLW, localized additional dredging will be conducted. Such localized dredging will require over-steepening the slope. During this targeted removal, CM and Contractor staff will monitor the material being removed, and if confirmatory sampling indicates that the underlying sediment contains less than 15% total volatile solids (TVS), dredging will be stopped.

In the event that localized dredging will destabilize the top of the bank, PR/OPG and Anchor QEA will confer with Ecology to determine the appropriate path forward.

Areas of localized dredging will be backfilled with angular gravel with a 1-foot thick rounded substrate habitat overlay to achieve a final surface no steeper than 2.5H:1V.

Contingency Measures in Deeper Water Areas

Dredge cuts will be verified with post-dredge core sampling consistent with the procedures presented in the CQAP. It is possible that some areas of deeper wood waste may be encountered during the dredge cut verification sampling in deeper water areas – for example in Transects 6, 8 and 9. In the location of Transects 6, 8, and 9, additional excavation significantly below the target elevation to attempt to remove deeper wood deposits could potentially destabilize the dredge cut slope. Thus, if post-dredge sampling indicates that a substantial thickness of wood waste remains below elevation -35 feet mean lower low water (MLLW), the following contingency options will be reviewed with Ecology and employed as appropriate:

- In relatively level areas at the toe of slope, the contingency would be to install the 4-foot-thick SMA-2 subtidal sand cap, consistent with the design approved in the EDR for other deep subtidal areas in SMA-2. In cases where the contingency cap will be constructed adjacent to the SMA-2 subtidal cap, the contingency 4-foot-thick sand cap would be placed in such a manner as to connect to the edge of the planned subtidal SMA-2 cap so that a continuous final cap surface results.
- Where deposits are encountered mid-slope, angular gravel material is needed for a
 contingency cap to be stable. For slope areas, the contingency cap would consist of 6
 to 9 inches of Type 3 armor rock (as described in the EDR), covered with a 1-footthick overlay of rounded habitat substrate.

The plan view on Figure 1 and cross sections for Transects 6, 8 and 9 present in concept where a contingency caps could be installed if further removal below elevation -35 feet MLLW is not practicable due to slope stability concerns.

Connection between Revised SMA-2 Dredge Prism and SMA-2 Subtidal Cap

The final horizontal limits of the SMA-2 dredge prism will be controlled in part by the asconstructed side slope. The dredging is being conducted immediately adjacent to the SMA-2 subtidal cap. As part of their sequencing and to prevent cap recontamination, the contractor will maintain a buffer between the SMA-2 subtidal cap and the dredging work, and will install the SMA-2 subtidal cap within this buffer area only after dredging is complete.

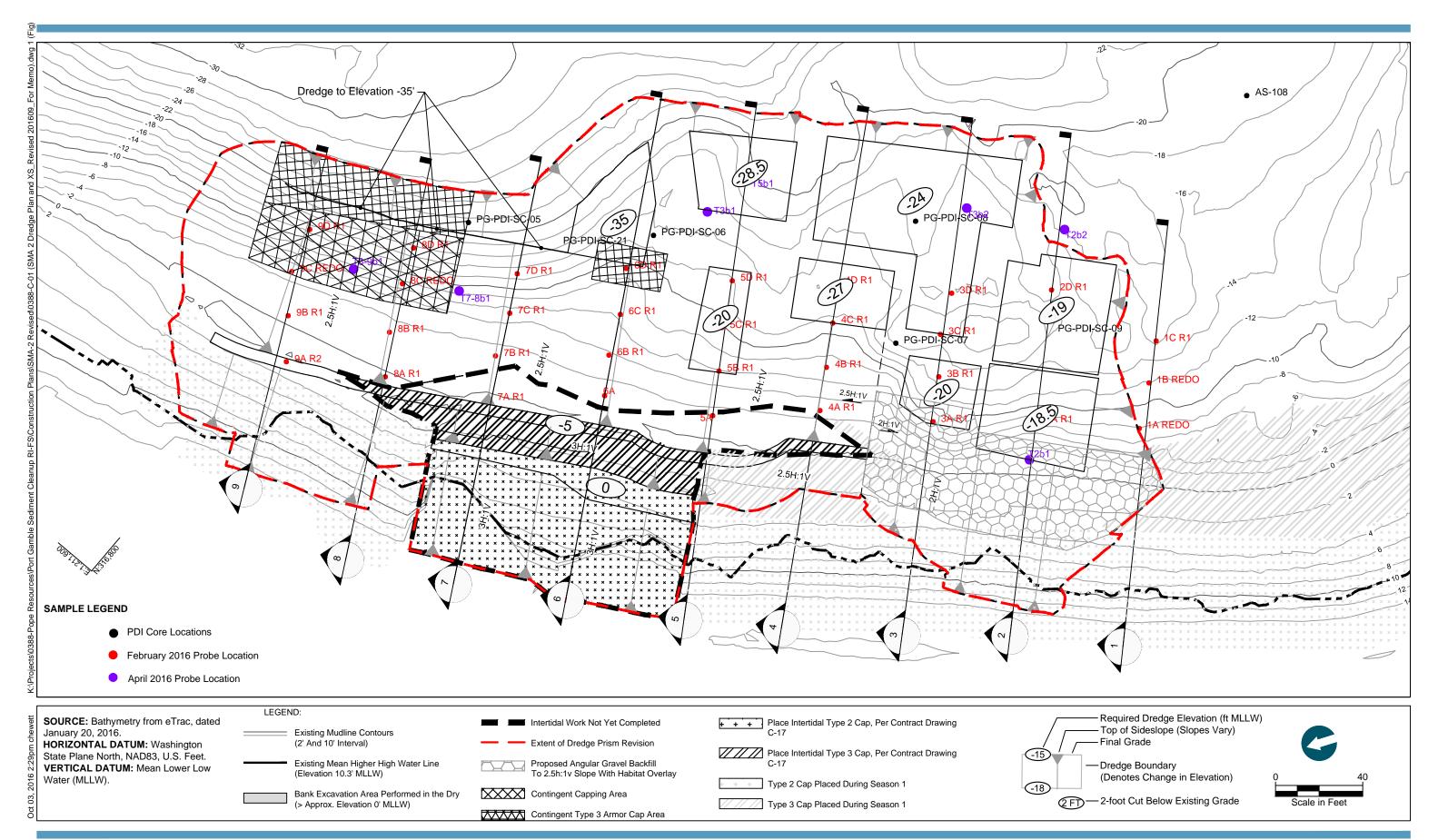
The horizontal limits of the SMA-2 subtidal cap will be adjusted in the field as appropriate to ensure complete coverage of either SMA-2 subtidal cap, dredging, or dredging + contingency 4-foot thick cap in the work area. This concept is illustrated as a callout on the transects that abut the SMA-2 subtidal cap.

REFERENCES

Anchor QEA, 2015. Engineering Design Report Port Gamble Bay Cleanup Project. Prepared for Pope Resources, LP/OPG Properties, LLC. May 2015.

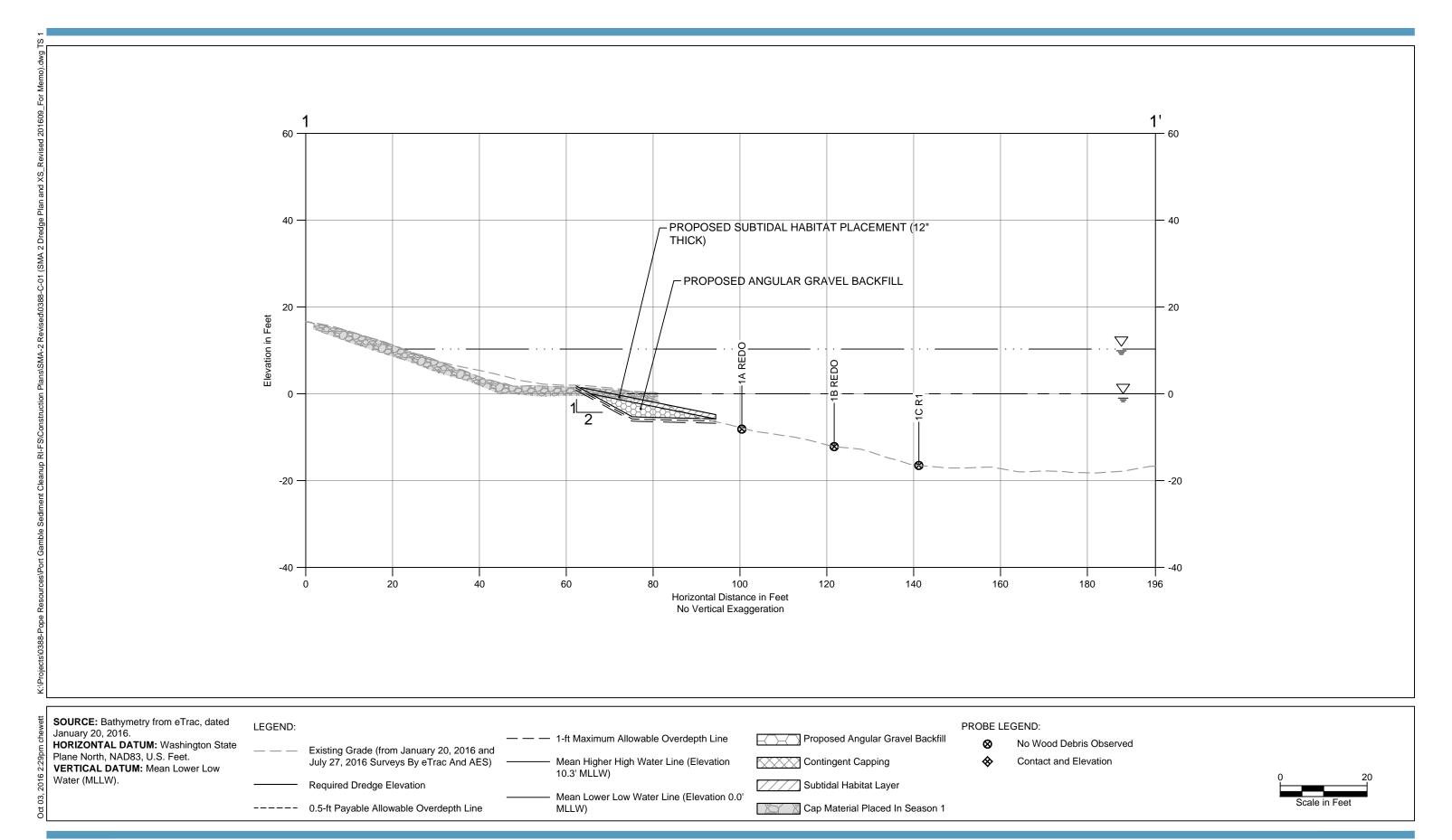
Anchor QEA, 2016. Revisions to Sediment Management Area 2 Dredge Prism Design Memorandum. Prepared for Washington Department of Ecology. June 13, 2016.

Newmark, N.M., 1965. Effects of Earthquakes on Dams and Embankments. Geotechnique Vol. 15, No. 2, 1965.



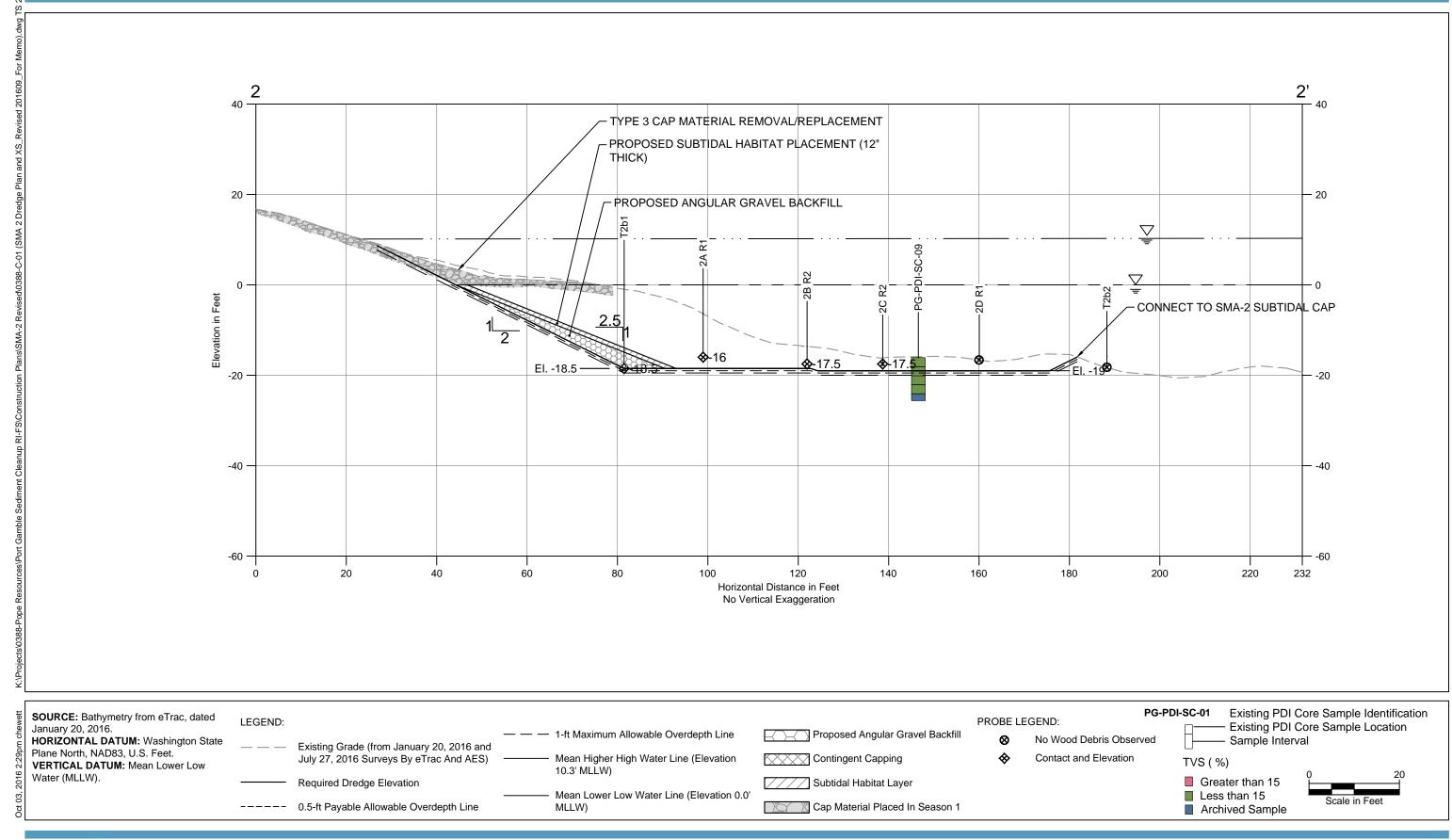
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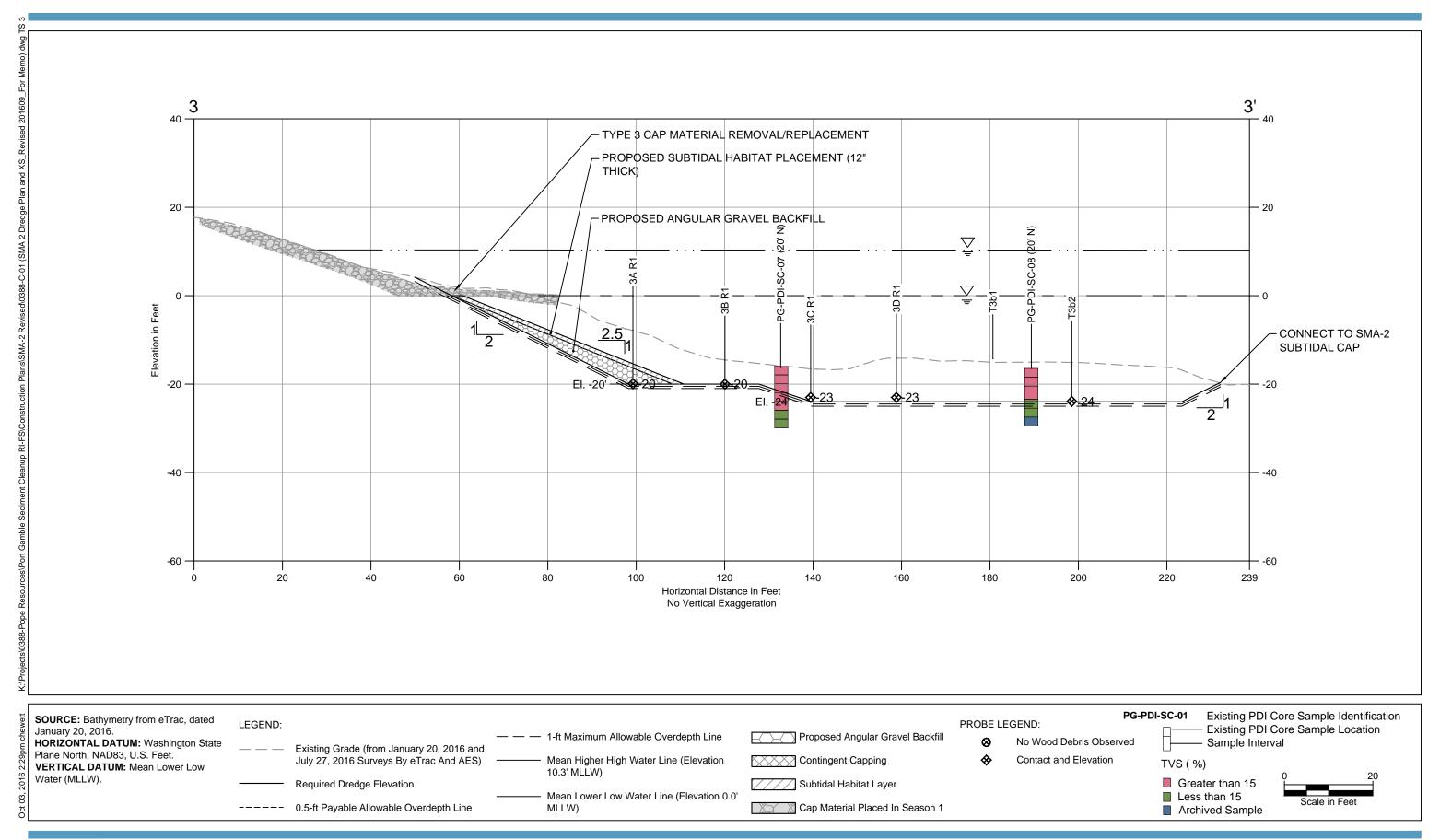




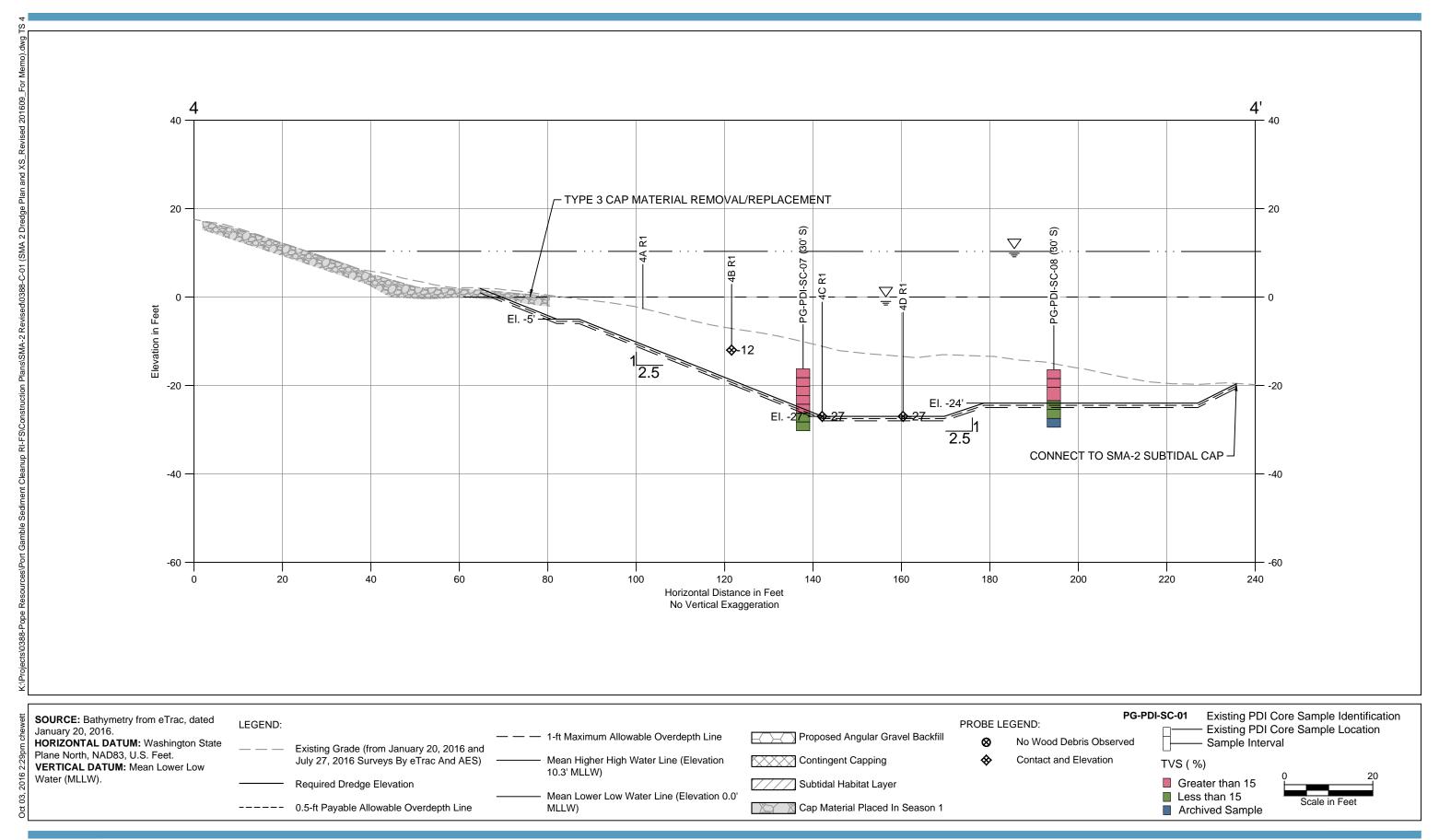




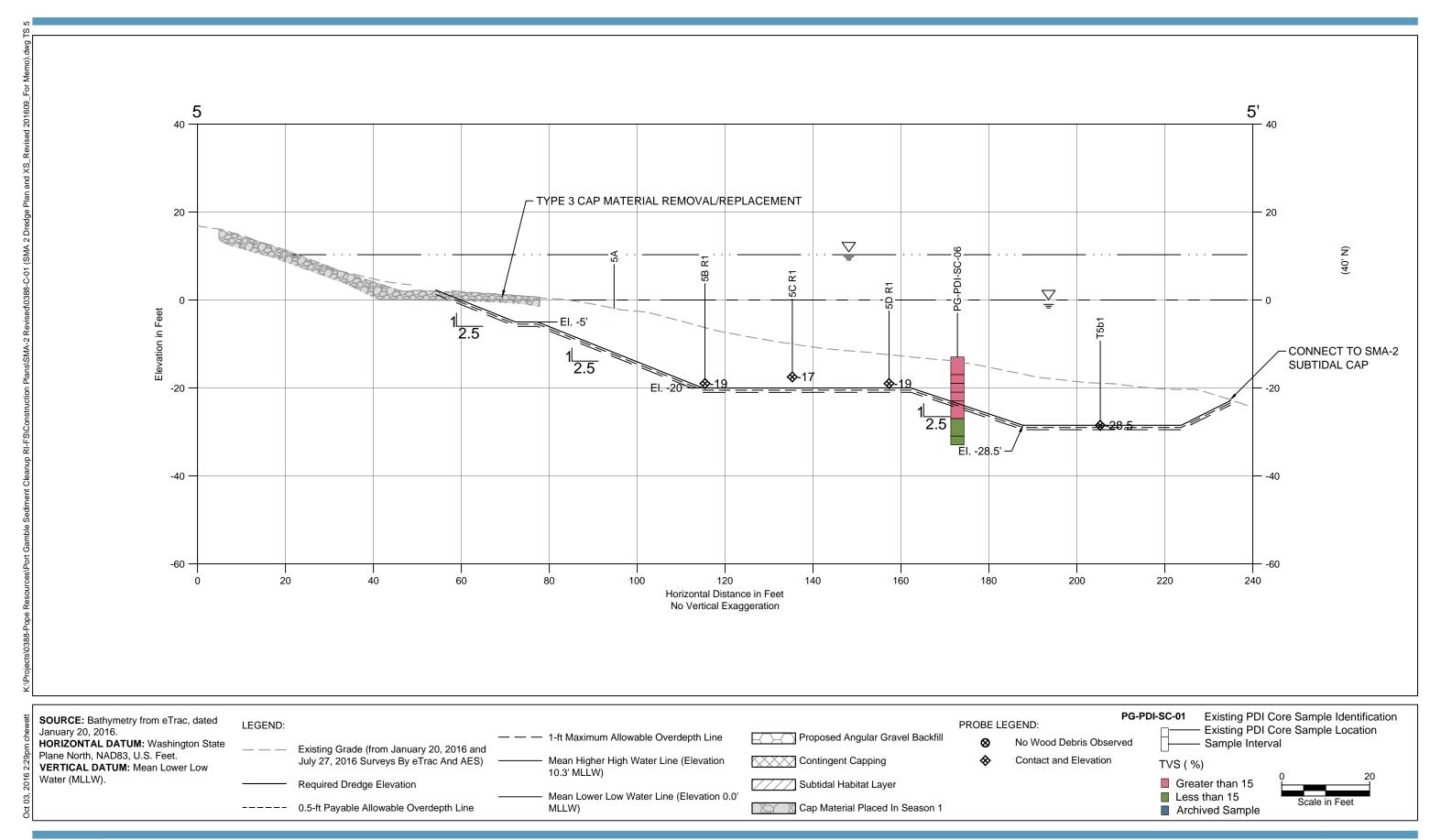




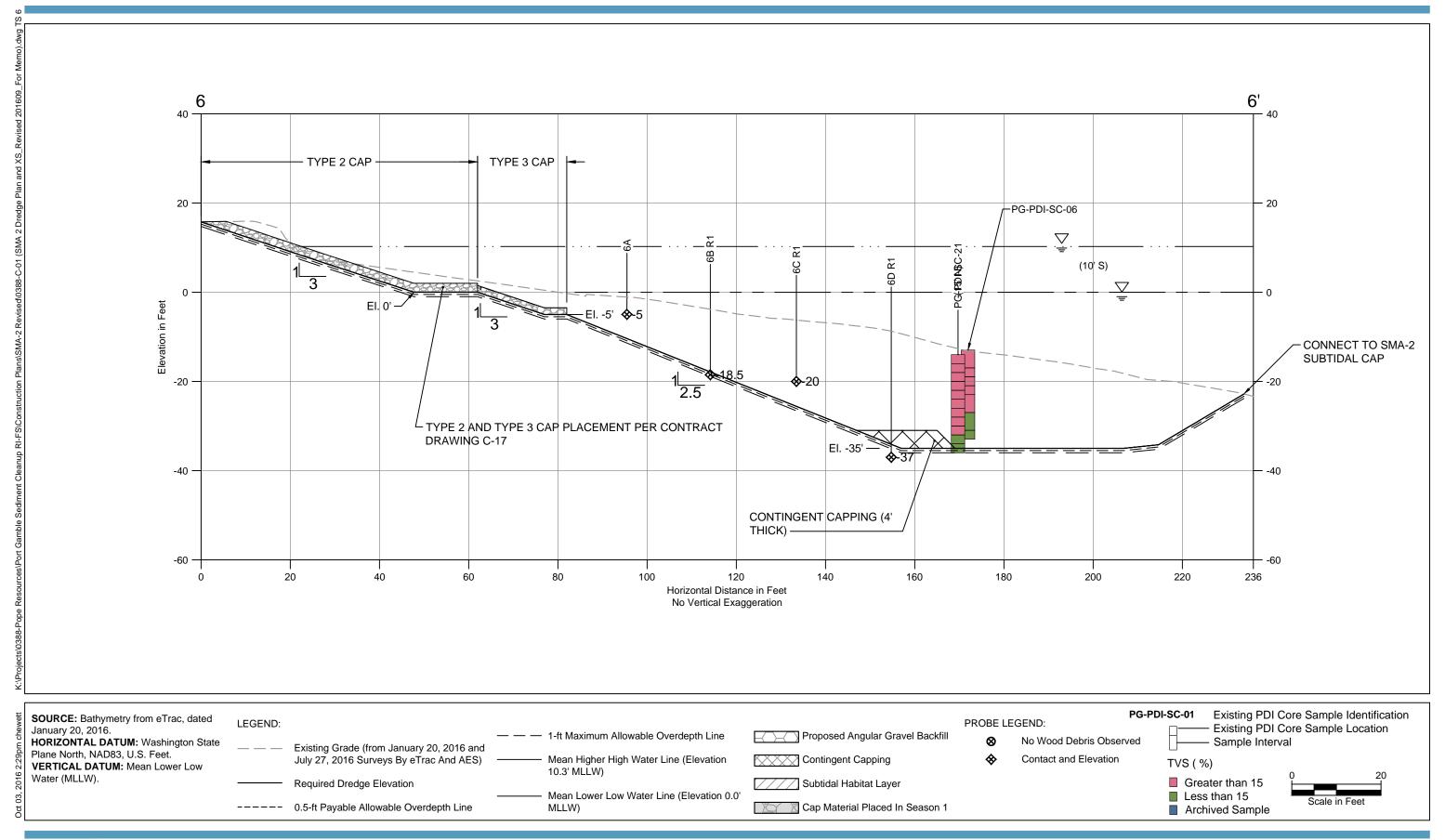




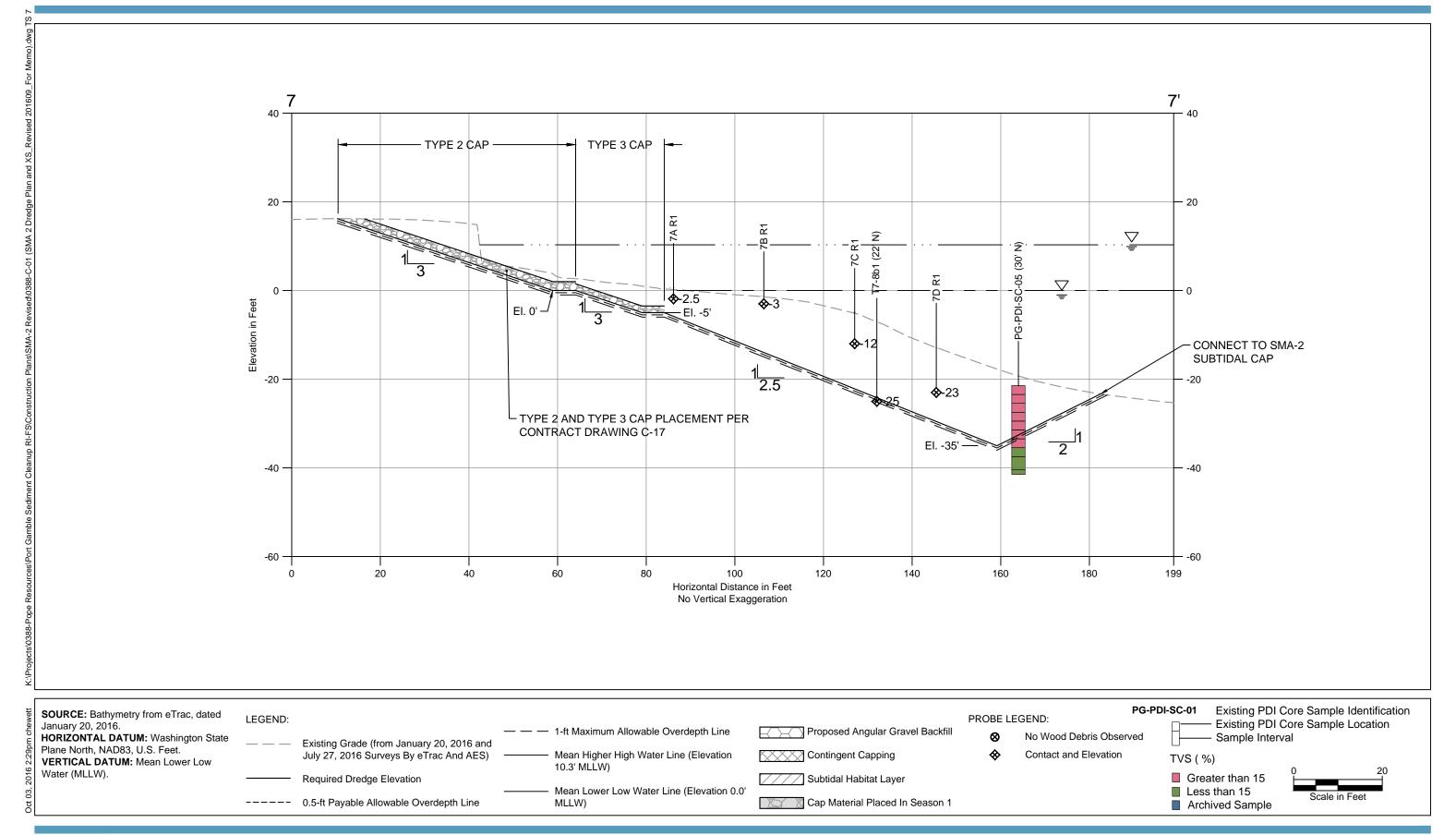




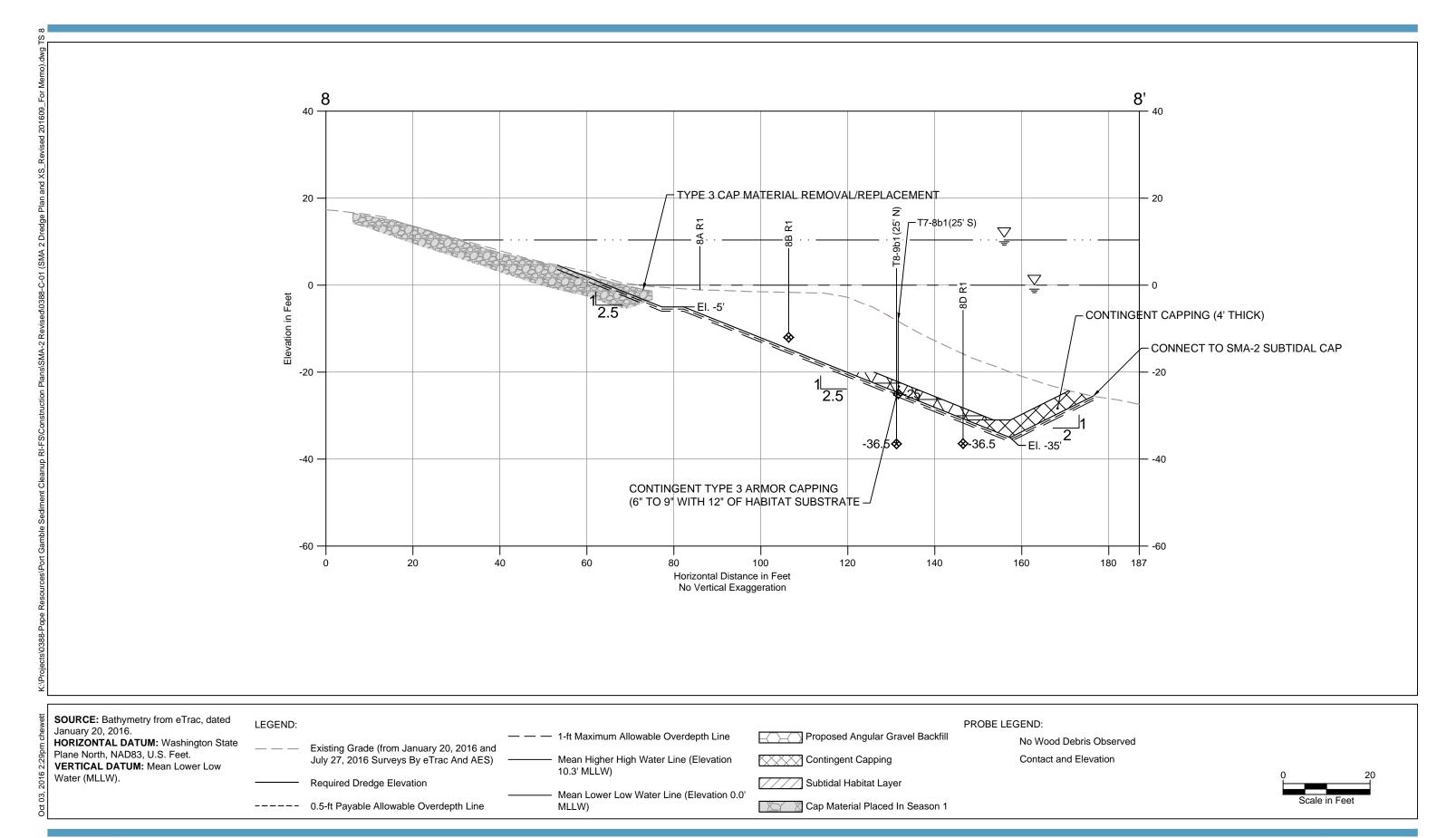






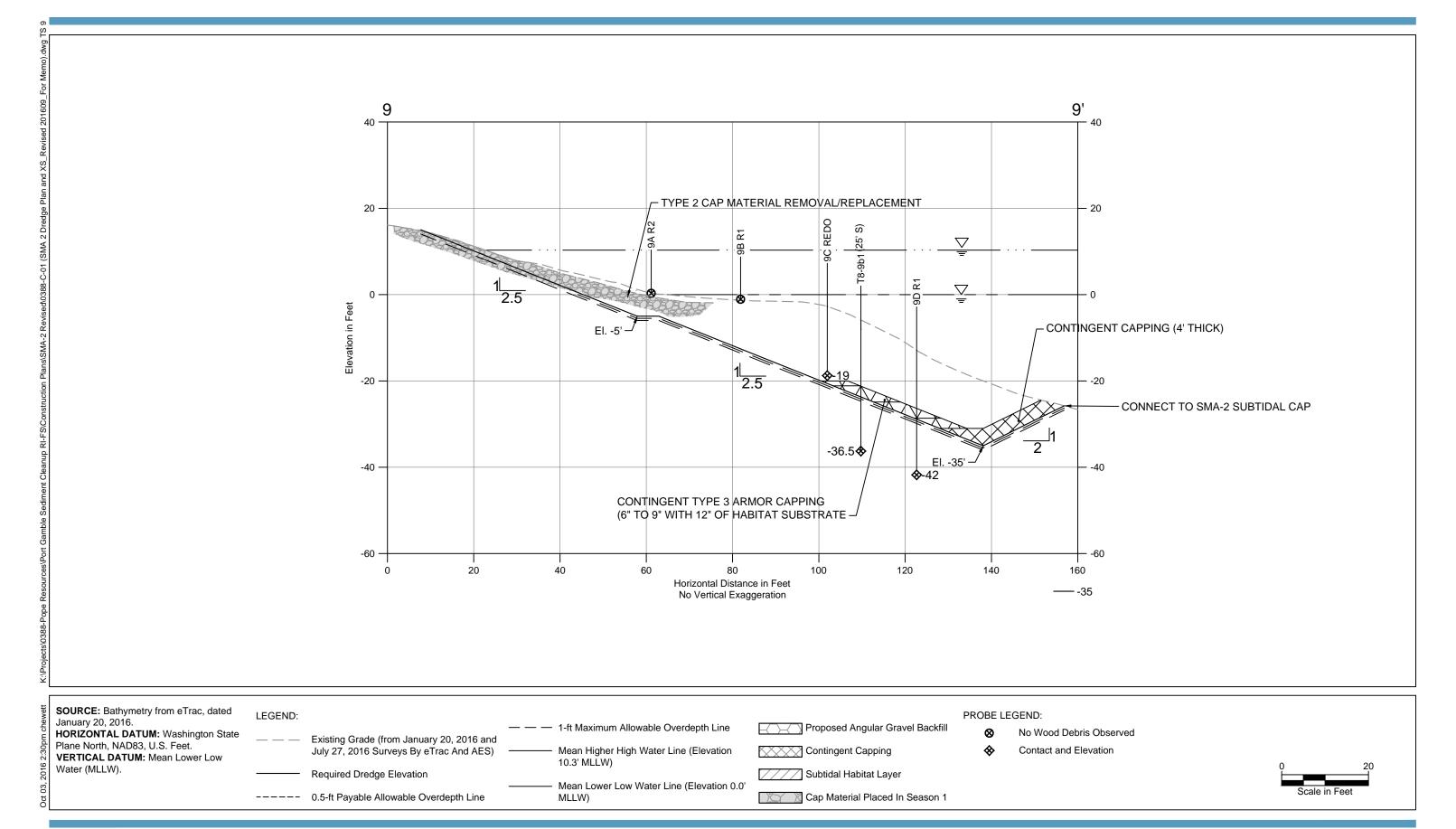
















Appendix C SMA-1 Updated Wave Modeling and Cap Modification Recommendations

May 2017 Port Gamble Bay Cleanup Project

Appendix C SMA-1 Updated Wave Modeling and Cap Modification Recommendations

Prepared for

Pope Resources, LP/OPG Properties, LLC 19950 Seventh Avenue NE, Suite 200 Poulsbo, Washington 98370

Prepared by

Anchor QEA, LLC 720 Olive Way, Suite 1900 Seattle, Washington 98101

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1 Overvie	wew	•••••••••••••••••••••••••••••••••••••••
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3 Armori	ng Recommendations for Seep Area Repair	9
4 Referer	nces	10
TABLES		
Table 1	Additional Model Scenarios	
FIGURES		
Figure 1	Approximate Area of Erosion	2
Figure 2	Wave Heights in Feet Predicted by the Model for Run 1	6
Figure 3	Wave Heights in Feet Predicted by the Model for Run 2	
Figure 4	Wave Heights in Feet Predicted by the Model for Run 3	
PHOTOS		
Photo 1	Seep Backfilled with Salvaged Armor Rock (August 2016)	3
Photo 2	Potential Propwash Scour Area	2

ATTACHMENTS

Attachment A Conceptual SMA-1 Cap Modifications

1 Overview

This appendix summarizes additional wave modeling work and associated cap modification recommendations for a portion of the armored slope in Sediment Management Area 1 (SMA-1). This work was conducted in response to erosion damage to the armored slope along SMA-1 due to several potential erosion issues (discussed in more detail below). The erosion issues were originally summarized in the presentation provided in Attachment A, which was developed by Anchor QEA, LLC, and submitted to the Washington State Department of Ecology via email on December 21, 2016.

Figure 1 shows the final dredge and armor design for SMA-1 and highlights the area of concern addressed in this appendix. The following are potential causes, in order of probability and importance, of the damage to the slope in the identified area:

- 1. A groundwater seep, encountered during bank excavation that was conducted as a requirement of the Port Gamble Bay cleanup project in August (Photo 1; Attachment A)
- 2. Propeller-induced scour (propwash) from the tugs maneuvering marine equipment and barges during cleanup construction (Photo 2)¹
- 3. Potentially greater wave-induced scour due to the removal of pilings at the end of the breakwater

This appendix summarizes additional wave modeling that was conducted to evaluate #3 above. The results of the wave modeling (summarized herein) were used to inform and develop an armoring plan for the shoreline area that was damaged.

Discussion of issues related to the groundwater seep and propeller induced scour are not explicitly discussed in this appendix, but are documented in Attachment A.

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¹ It is possible that propwash scour impacted the seep area and exacerbated seepage-induced erosion.

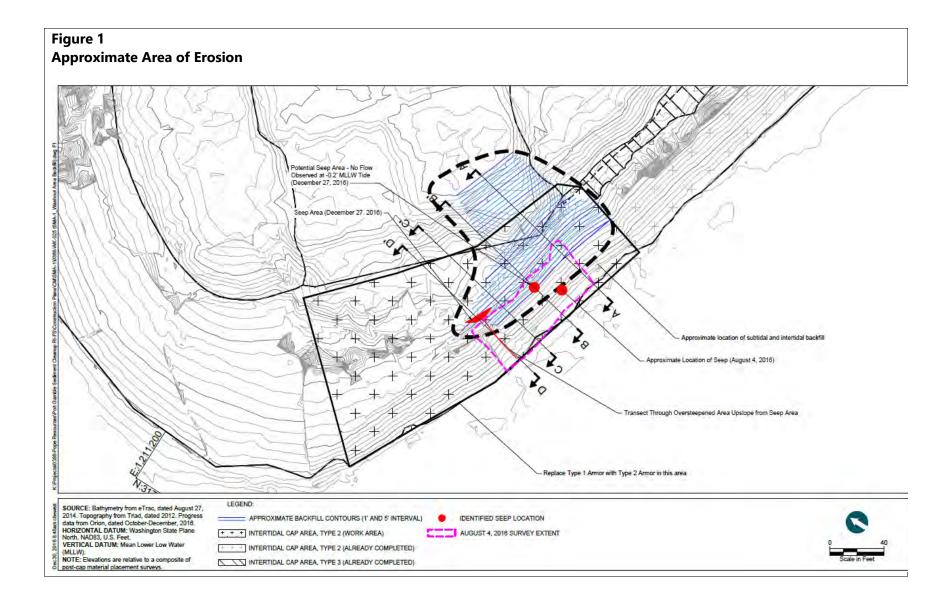
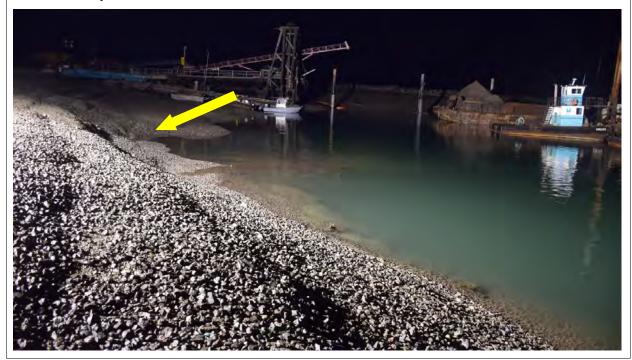


Photo 1
Seep Backfilled with Salvaged Armor Rock (August 2016)

Photo 2 Potential Propwash Scour Area



2 Additional Wave Modeling

To evaluate possible wave impacts to the SMA-1 shoreline due to the removal of pilings at the end of the breakwater, additional wave modeling was conducted utilizing the previously developed Delft3D-WAVE Model (Anchor QEA 2015a). The most recent bathymetry and topography were used to update the model to more accurately model wave transformation from deep water into the SMA-1 nearshore area. In addition to updating the bathymetry, the end of the breakwater (the dogleg portion at approximately 90 feet long) was modeled using three different performance assumptions to consider the range of changes in breakwater performance following piling removal. Previous modeling assumed the end of the breakwater would remain fully functioning following construction. The following three performance assumptions for the dogleg were used in the model:

- 1. Fully functioning (0% of wave energy transmitted through the breakwater end)
- 2. 50% of wave energy transmitted through the breakwater end
- 3. Fully removed (100% of wave energy transmitted through the breakwater end, as if it were not there)

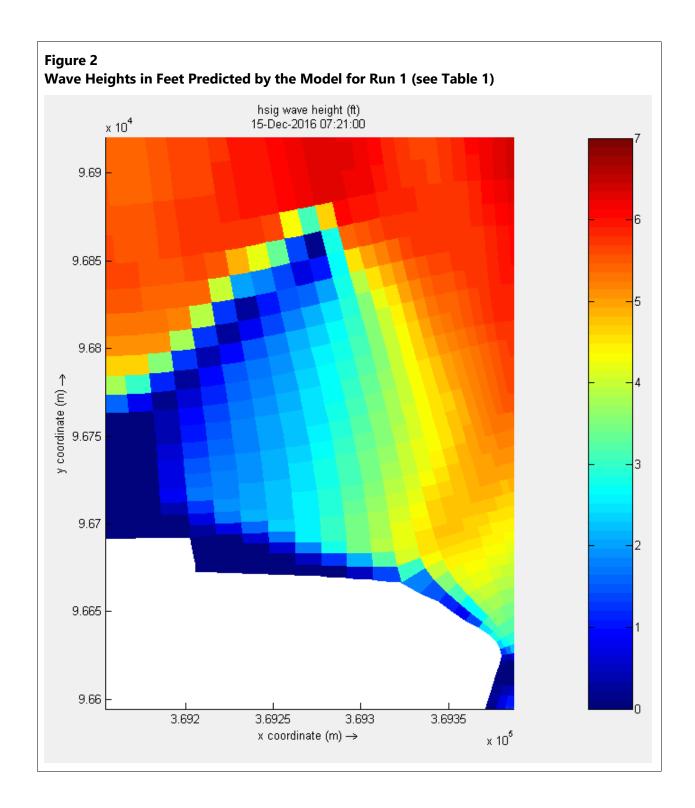
Table 1 outlines the model scenarios; modeling results are shown in Figures 2 through 4. Although the model runs for the northwest wind condition (57 miles per hour from 335 degrees) are shown, north wind conditions (49 mph from 0 degrees) were also modeled. The northwest scenarios are shown because they result in stronger waves at the site. As Figures 2 through 4 show, the estimated wave heights at the location of concern could be as high as 2.5 feet under the most conservative assumption for the dogleg (#3 above).

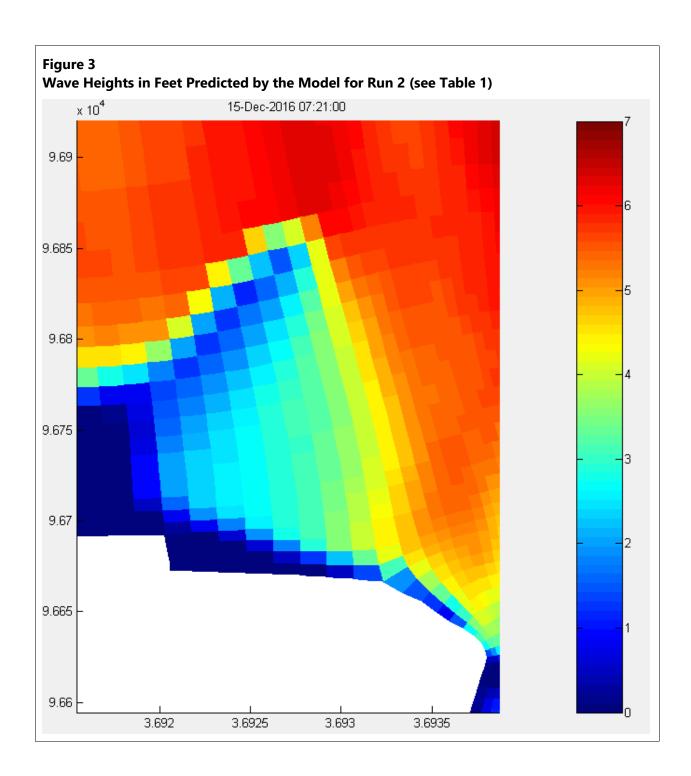
Table 1
Additional Model Scenarios

Run Number	Storm Scenario	Breakwater Scenario
1	100-year, MHHW, northwest wind	End of breakwater fully functioning
2	100-year, MHHW, northwest wind	End of breakwater with 50% wave energy transmission
3	100-year, MHHW, northwest wind	End of breakwater fully removed

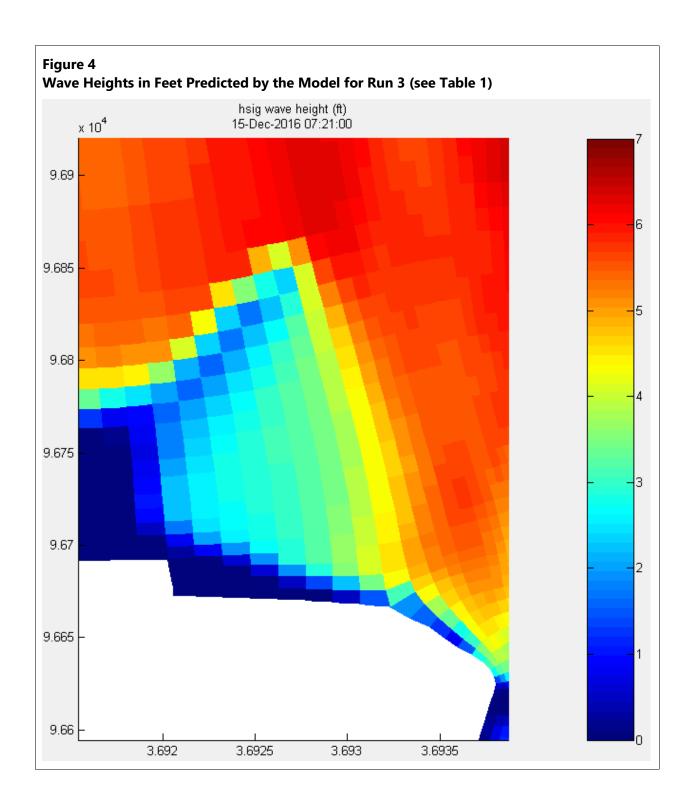
Note:

MHHW: mean higher high water





May 2017



3 Armoring Recommendations for Seep Area Repair

The west side of SMA-1 was originally designed to be armored with Type 1 rock (D50 of 1.25 inches). Some of this size armor has eroded and shifted in the transition zone from the east to west shoreline (Figure 1). This erosion could have been caused by a combination of propwash from the dredging operations offshore, groundwater seepage that flows through the shoreline at the location of the damage (Photos 1 and 2; Attachment A), and removal of pilings at the end of the breakwater that reduced its performance along the SMA-1 shoreline compared to the original design modeling assumptions presented in the EDR.

Modeling was performed to evaluate a conservative wave height (approximate 100-year event) in the area of interest, assuming the breakwater does not work as previously assumed. As the additional modeling showed (Figures 2 through 4), the modeled high wave height for the area of interest is approximately 2.5 feet; assuming the end of breakwater is not functioning as effectively as it had prior to piling removal.

Type 2 armor (D50 of 9 inches) was designed for SMA-2 based on a wave height of 2.7 feet (Section 7 of Appendix D of the *Engineering Design Report*; Anchor QEA 2015b). Therefore, Type 2 armor should be sufficient to provide protection for the area of interest in SMA-1.

The additional armor should be placed based on the following criteria:

- 1. The Type 2 armor should be at least 1.5 feet thick.
- 3-inch minus angular backfill (D50 of 1.25 inches) should be used as the filter and placed under the Type 2 armor at a thickness of 6 inches to 1 foot.
- 3. The filter and armor should be placed along the shoreline from the edge of the already constructed Type 2 armored cap, and to the west, terminating at the edge of the subtidal dredge prism.
- 4. The filter and armor should be placed down to elevation -8 feet mean lower low water (MLLW) to protect from possible wave scour at the toe of slope (USACE 2002).

Figure 1 in this Appendix and Figures 4a and 4d of the main Cleanup Action Report document depict the recommended layout of the additional Type 2 armor and filter material.

4 References

- Anchor QEA (Anchor QEA, LLC), 2015a. Memorandum to Roma Call, Port Gamble S'Klallam Tribe. Regarding: Wave Modeling in Support of Restoration Design (Part 1). April 2015.
- Anchor QEA, 2015b. Engineering Design Report. Port Gamble Bay Cleanup Project. May 2015.
- Deltares, 2011. *Delft3D-WAVE Simulation of Short-crested waves with SWAN: User Manual.* Version 3.04. May 2011.
- USACE (U.S. Army Corps of Engineers), 2002. *Coastal Engineering Manual*. Publication Number EM 1110-2-1100. April 2002.

Attachment A Conceptual SMA-1 Cap Modifications

Cleanup Action Report – Season 2
Appendix C



Port Gamble Bay Cleanup Conceptual SMA-1 Cap Modifications

Prepared by
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December 21, 2016

Summary of Issue

- Portion of the SMA-1 intertidal cap has been damaged
- Potential causes and likely solutions
 - Wave action
 - Undermining at toe of 3H:1V slope
- Recommended repairs being evaluated
 - Coastal engineering: revisiting effectiveness of jetty as a "wave shadow"
 - Geotechnical engineering: evaluating how the seep affects the slope; considering potential extent of stability concerns
- Proposed path forward

Approximate Photo Locations

