

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010419\
 Data File : BF111845.D
 Acq On : 4 Jan 2019 15:31
 Operator : JU/SJ
 Sample : K1017-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

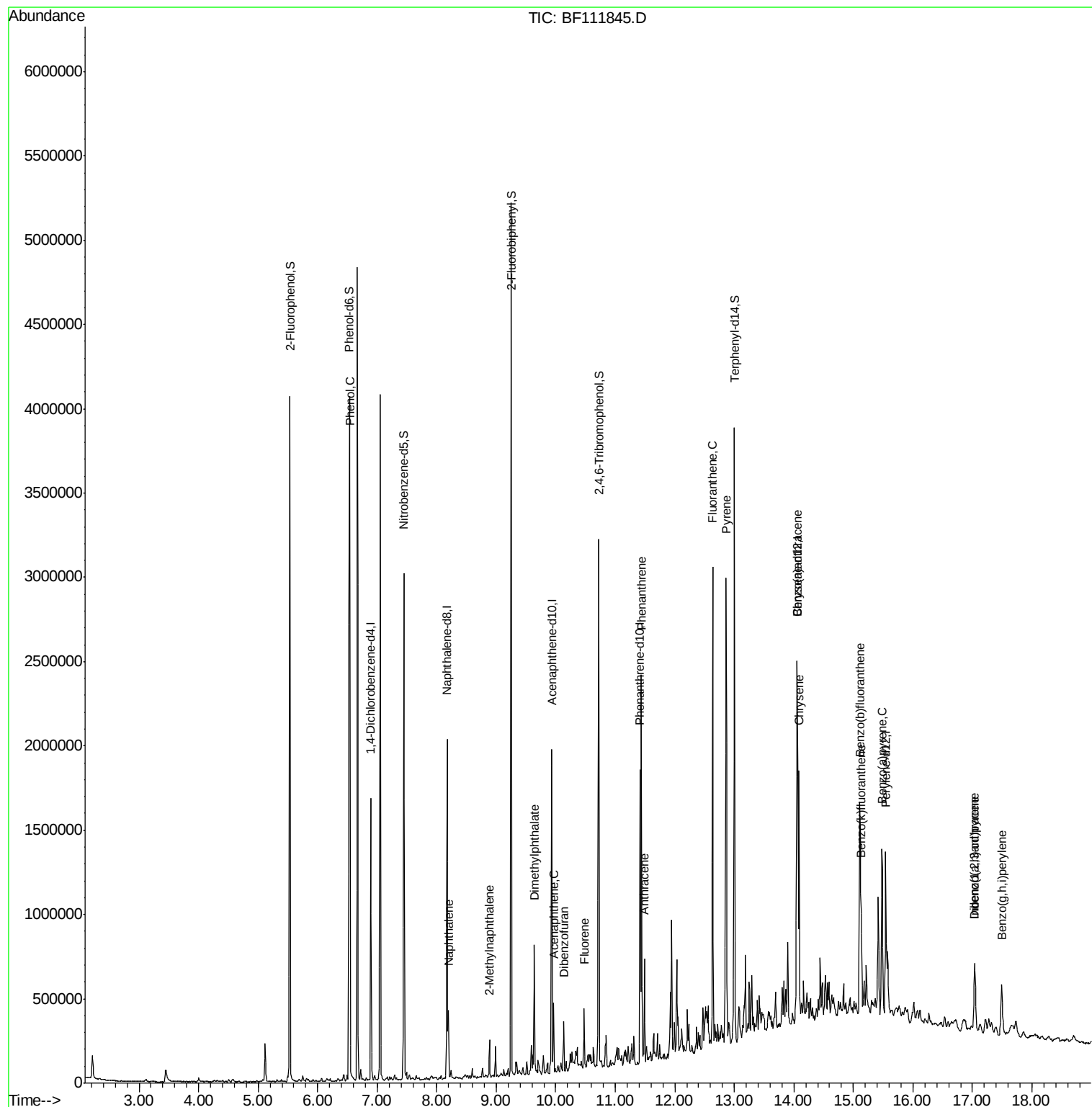
Quant Time: Jan 04 18:00:34 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 04 15:03:59 2019
 Response via : Initial Calibration

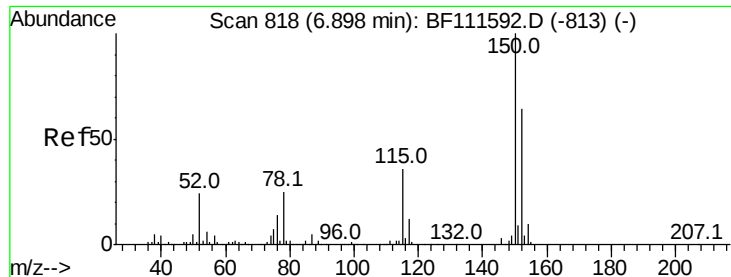
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	224353	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	834666	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	400280	20.00	ng	-0.01
64) Phenanthrene-d10	11.42	188	627006	20.00	ng	0.00
76) Chrysene-d12	14.06	240	512076	20.00	ng	-0.01
87) Perylene-d12	15.54	264	462832	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	1158645	88.03	ng	0.00
7) Phenol-d6	6.53	99	1511744	90.25	ng	0.00
23) Nitrobenzene-d5	7.45	82	938412	65.44	ng	-0.01
42) 2,4,6-Tribromophenol	10.72	330	392274	82.94	ng	0.00
45) 2-Fluorobiphenyl	9.25	172	1556440	56.68	ng	0.00
79) Terphenyl-d14	13.00	244	1239624	45.91	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.55	94	73218	3.874	ng	96
31) Naphthalene	8.20	128	156599	3.905	ng	95
37) 2-Methylnaphthalene	8.89	142	54248	2.079	ng	96
50) Dimethylphthalate	9.64	163	263795	9.012	ng	97
52) Acenaphthene	9.96	154	76881	3.189	ng	98
55) Dibenzofuran	10.13	168	83421	2.290	ng	95
58) Fluorene	10.47	166	84321	3.213	ng	99
71) Phenanthrene	11.44	178	894483	26.900	ng	95
72) Anthracene	11.49	178	216894	6.498	ng	94
75) Fluoranthene	12.64	202	1161122	34.482	ng	95
78) Pyrene	12.86	202	1147986	31.746	ng	96
81) Benzo(a)anthracene	14.05	228	619138	21.186	ng	99
83) Chrysene	14.09	228	584511	20.350	ng	98
86) Indeno(1,2,3-cd)pyrene	17.04	276	272250	11.150	ng	# 84
88) Benzo(b)fluoranthene	15.11	252	754252m	27.884	ng	
89) Benzo(k)fluoranthene	15.13	252	210585m	8.177	ng	
90) Benzo(a)pyrene	15.48	252	512434m	20.852	ng	
91) Dibenzo(a,h)anthracene	17.04	278	67412m	3.133	ng	
92) Benzo(a,h,i)perylene	17.49	276	249493	11.873	ng	# 88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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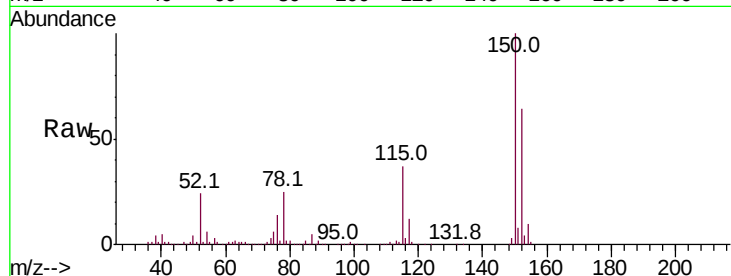




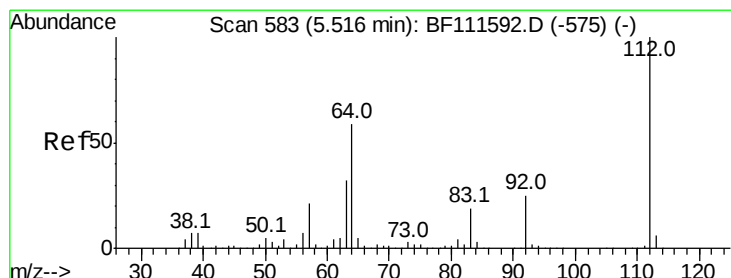
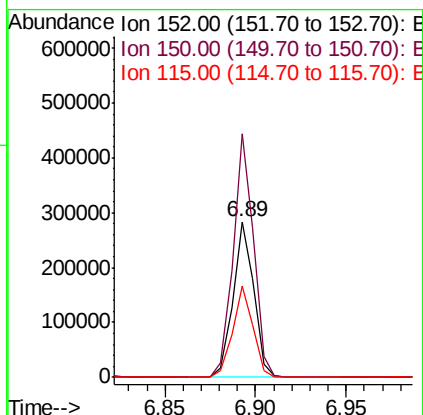
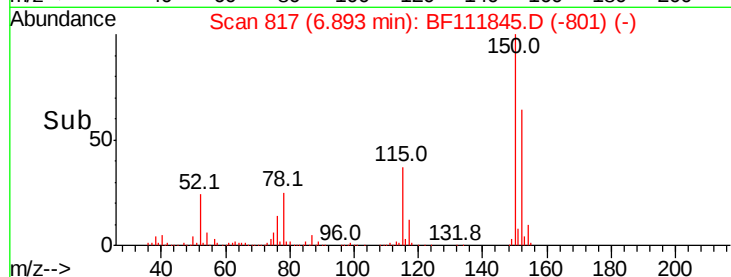
#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 817
Delta R.T. -0.01 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	126.6	189.8
115	58.2	50.7	76.1



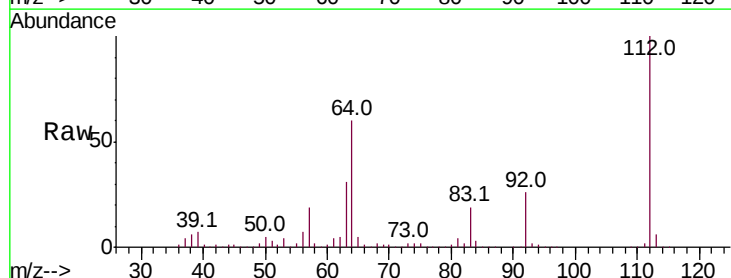
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



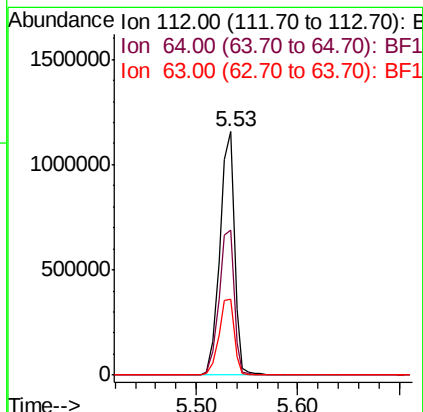
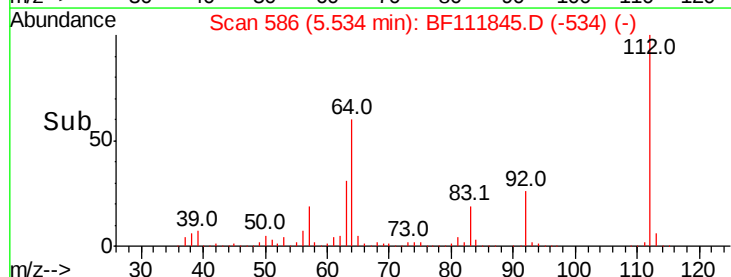
#5

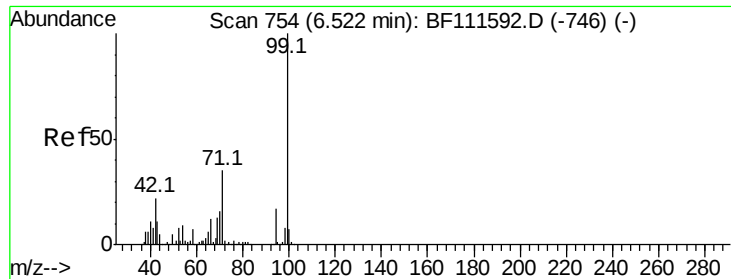
2-Fluorophenol
Concen: 88.029 ng
RT: 5.53 min Scan# 586
Delta R.T. 0.01 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.7	51.8	77.6
63	31.2	26.8	40.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 90.249 ng

RT: 6.53 min Scan# 756

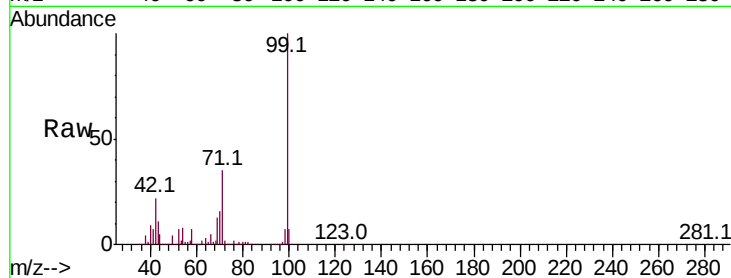
Delta R.T. -0.01 min

Lab File: BF111845.D

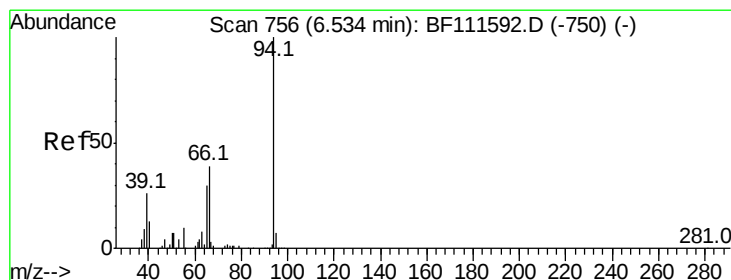
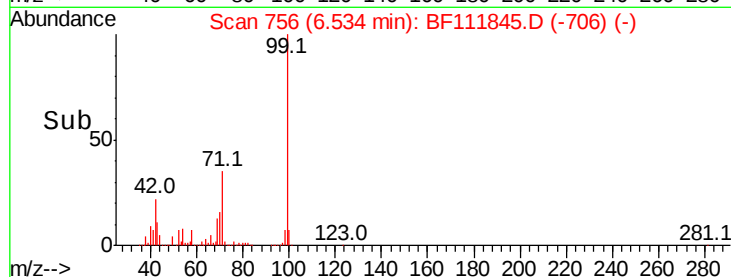
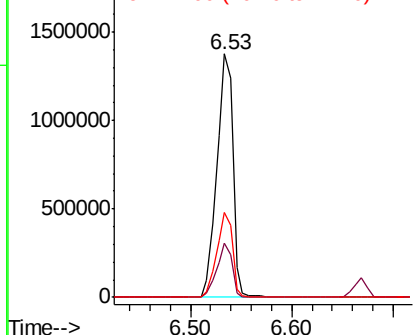
Acq: 4 Jan 2019 15:31

Tot Ion: 99 Resp: 1511744

Ion	Ratio	Lower	Upper
99	100		
42	22.0	17.4	26.0
71	34.9	26.1	39.1



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 3.874 ng

RT: 6.55 min Scan# 758

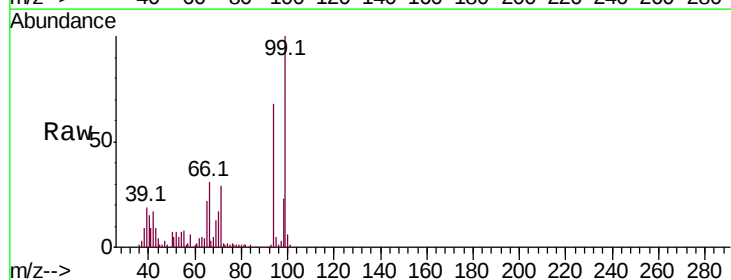
Delta R.T. -0.01 min

Lab File: BF111845.D

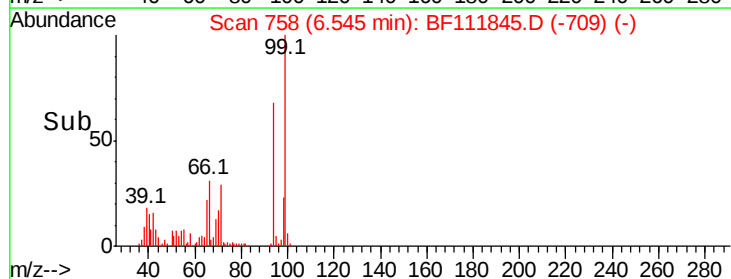
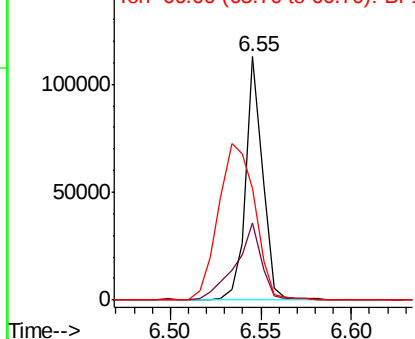
Acq: 4 Jan 2019 15:31

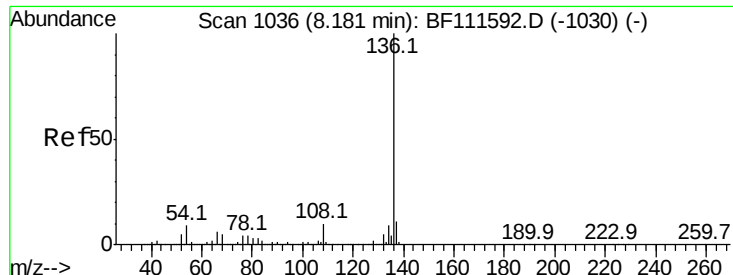
Tgt Ion: 94 Resp: 73218

Ion	Ratio	Lower	Upper
94	100		
65	31.7	11.7	51.7
66	45.9	21.0	61.0



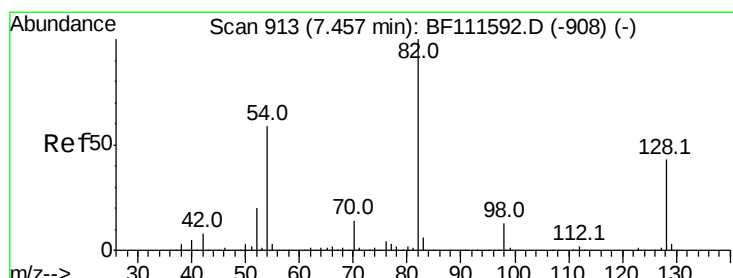
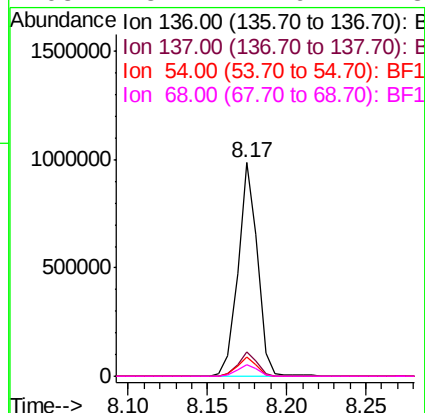
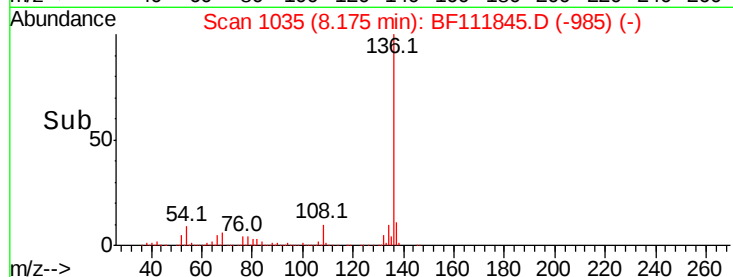
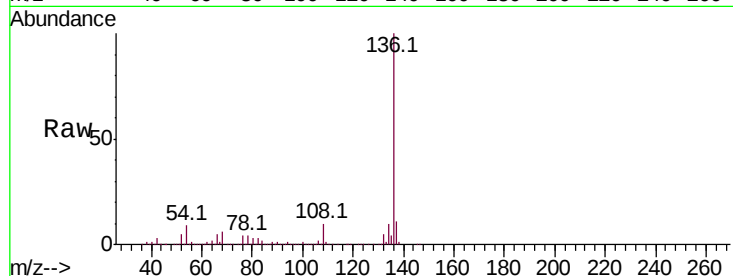
Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





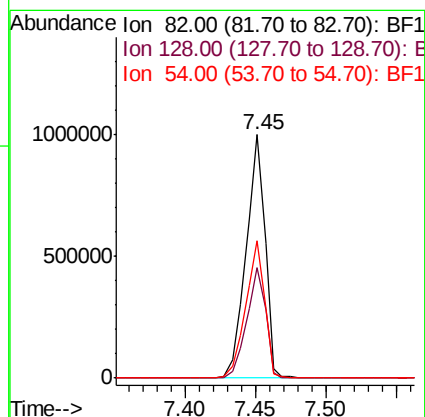
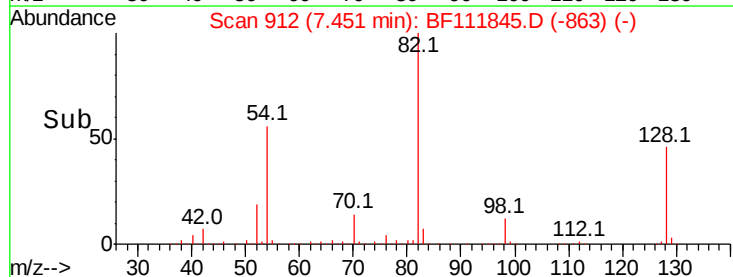
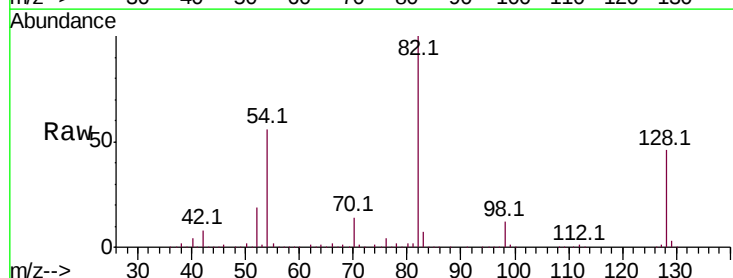
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.17 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

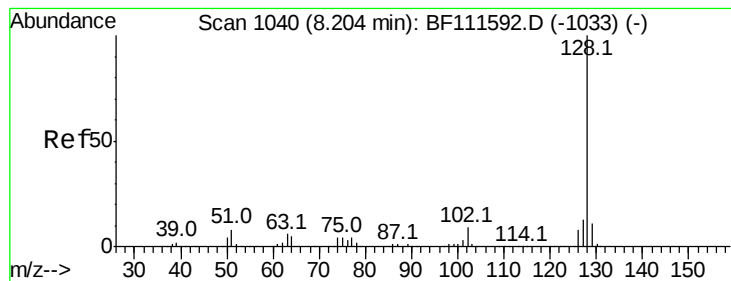
Tot Ion:136	Resp: 834666
Ion Ratio	Lower Upper
136 100	
137 11.2	9.1 13.7
54 9.2	7.7 11.5
68 5.7	4.9 7.3



#23
Nitrobenzene-d5
Concen: 65.443 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

Tgt Ion: 82	Resp: 938412
Ion Ratio	Lower Upper
82 100	
128 45.5	37.4 56.2
54 56.3	47.6 71.4





#31

Naphthalene

Concen: 3.905 ng

RT: 8.20 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF111845.D

Acq: 4 Jan 2019 15:31

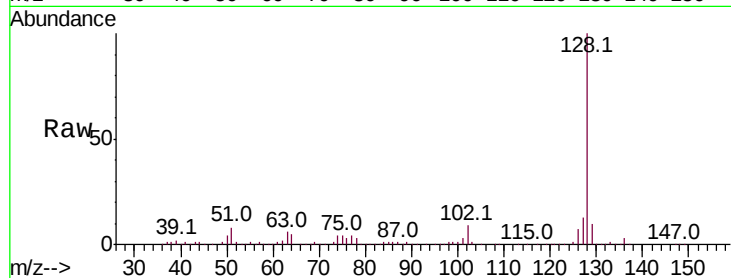
Tot Ion:128 Resp: 156599

Ion Ratio Lower Upper

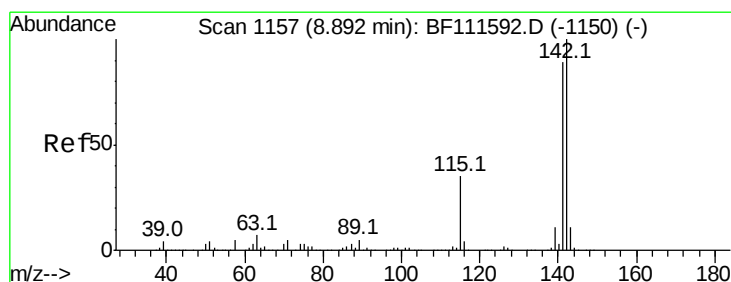
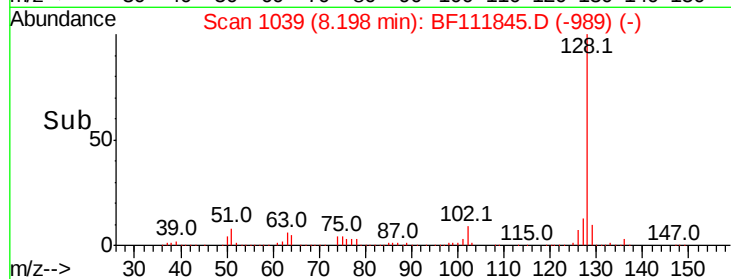
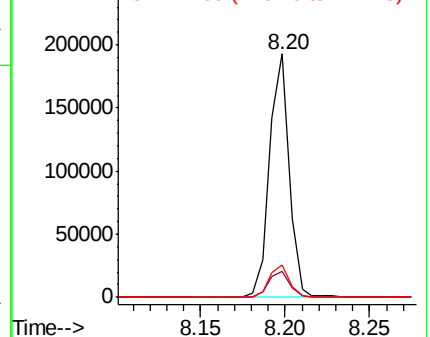
128 100

129 10.5 9.8 14.8

127 13.2 12.0 18.0



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 2.079 ng

RT: 8.89 min Scan# 1156

Delta R.T. -0.01 min

Lab File: BF111845.D

Acq: 4 Jan 2019 15:31

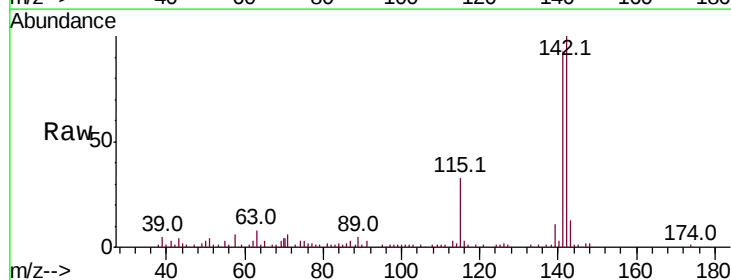
Tgt Ion:142 Resp: 54248

Ion Ratio Lower Upper

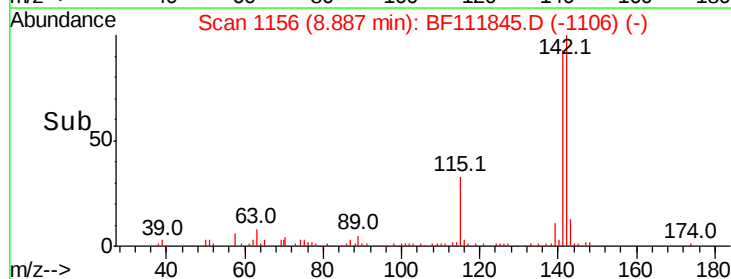
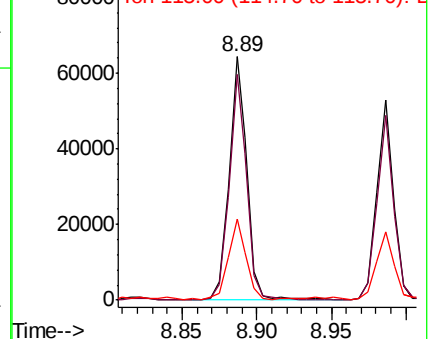
142 100

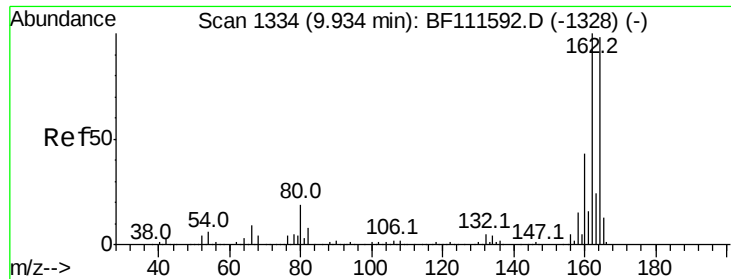
141 92.5 70.6 105.8

115 33.2 27.0 40.6



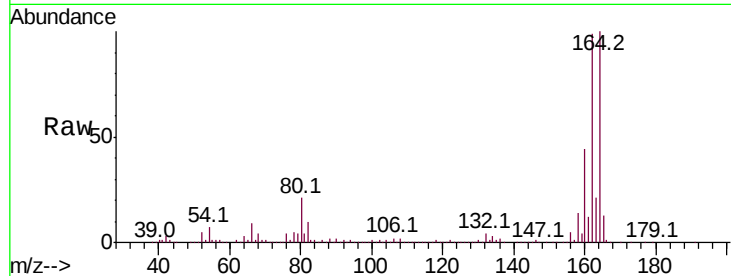
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



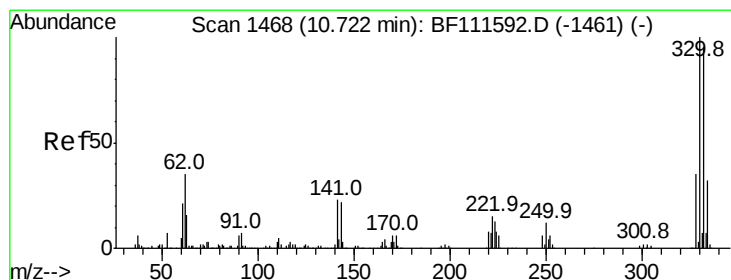
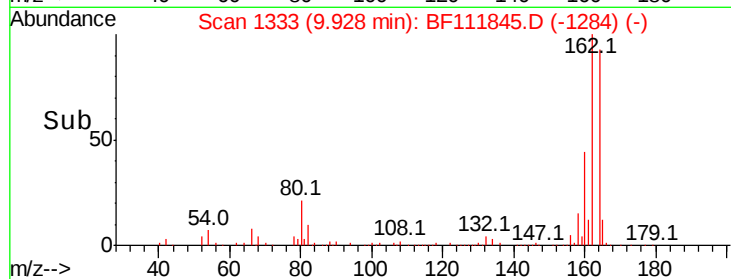
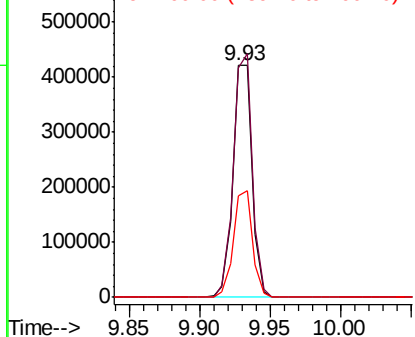


#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.93 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: BF111845.D
 Acq: 4 Jan 2019 15:31

Tot Ion	Ratio	Lower	Upper
164	100		
162	99.1	81.4	122.0
160	43.6	35.7	53.5

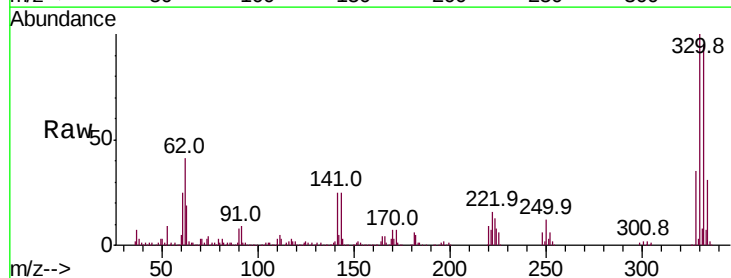


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

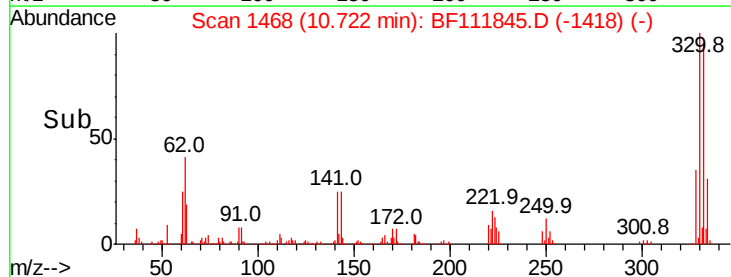
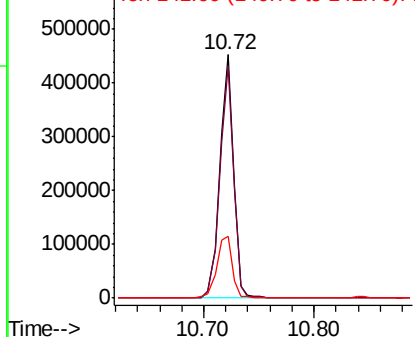


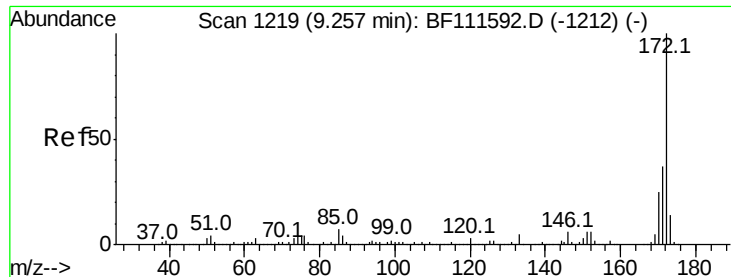
#42
 2,4,6-Tribromophenol
 Concen: 82.940 ng
 RT: 10.72 min Scan# 1468
 Delta R.T. -0.01 min
 Lab File: BF111845.D
 Acq: 4 Jan 2019 15:31

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.0	114.0
141	28.1	31.0	46.6



Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

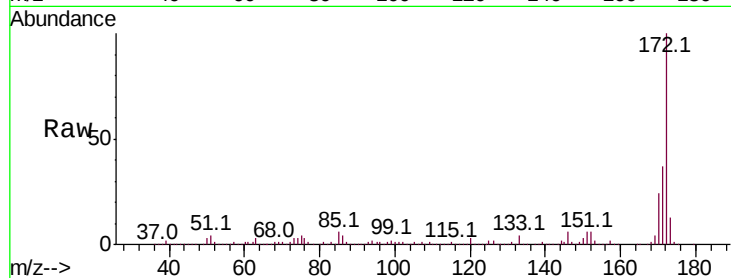




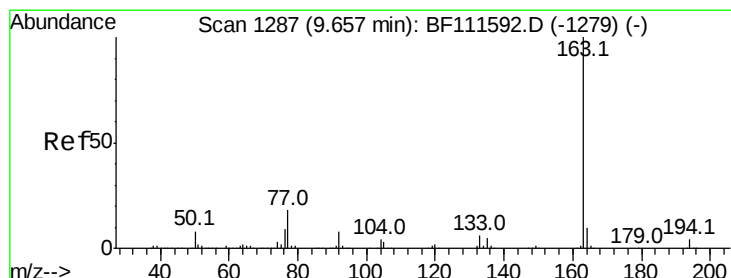
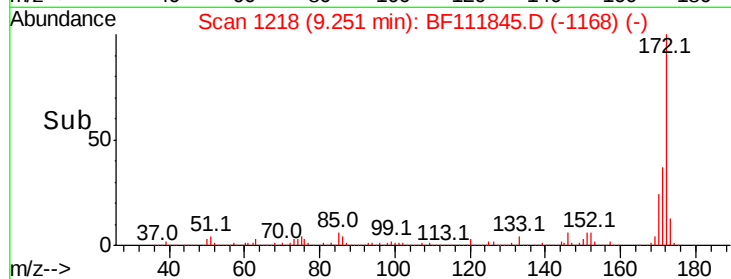
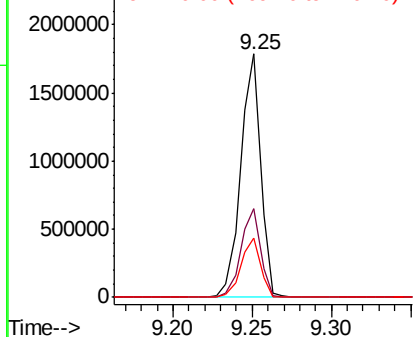
#45
2-Fluorobiphenyl
Concen: 56.676 ng
RT: 9.25 min Scan# 1218
Delta R.T. -0.01 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

Tot Ion:172 Resp: 1556440

Ion	Ratio	Lower	Upper
172	100		
171	36.5	33.0	49.4
170	24.4	22.3	33.5



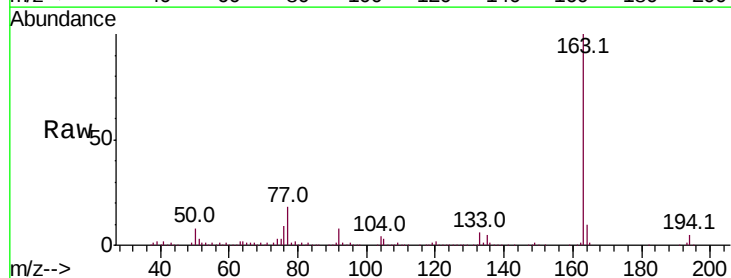
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E



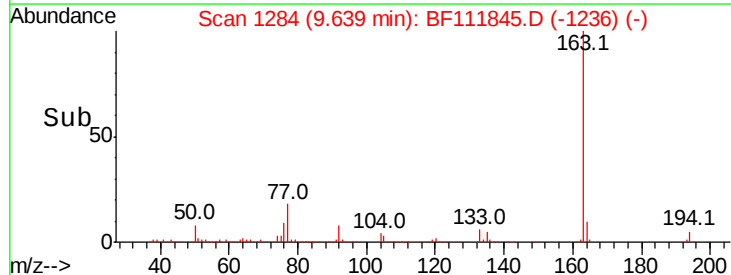
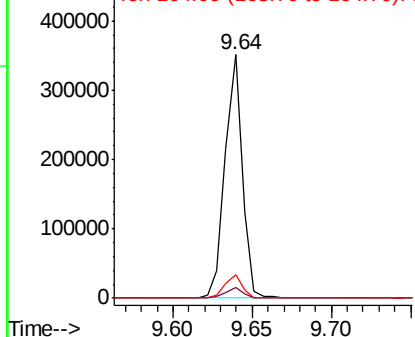
#50
Dimethylphthalate
Concen: 9.012 ng
RT: 9.64 min Scan# 1284
Delta R.T. -0.02 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

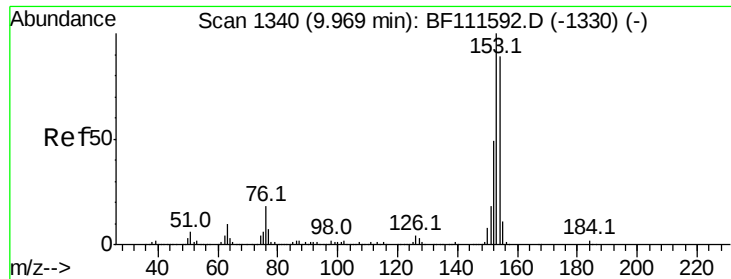
Tgt Ion:163 Resp: 263795

Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.0	4.6
164	9.8	8.9	13.3



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#52

Acenaphthene

Concen: 3.189 ng

RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BF111845.D

Acq: 4 Jan 2019 15:31

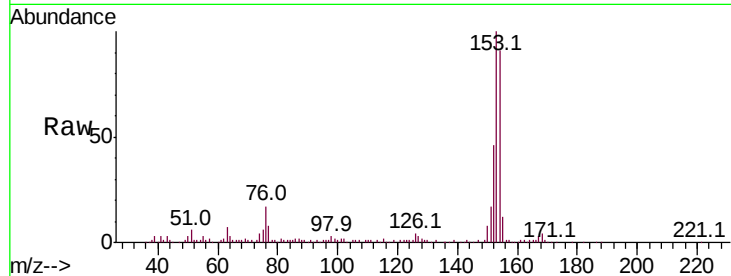
Tot Ion:154 Resp: 76881

Ion	Ratio	Lower	Upper
154	100		
153	109.4	87.8	131.8
152	50.7	43.4	65.2

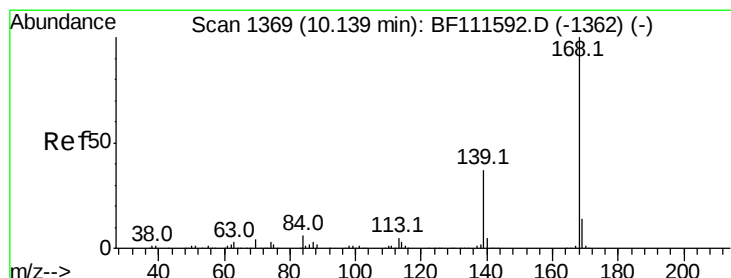
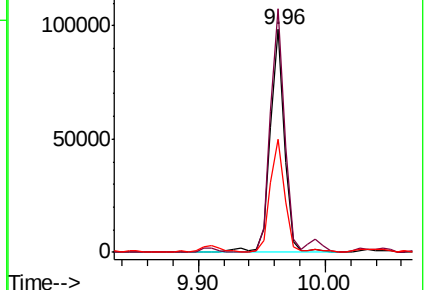
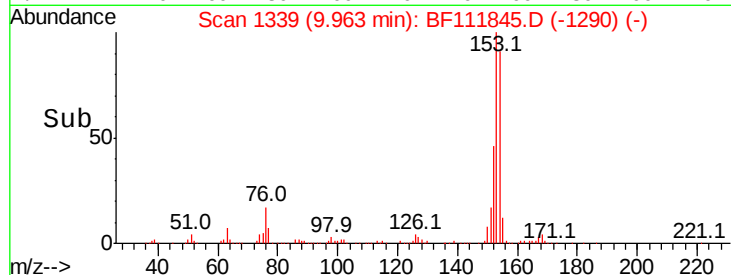
154 100

153 109.4 87.8 131.8

152 50.7 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 2.290 ng

RT: 10.13 min Scan# 1368

Delta R.T. -0.01 min

Lab File: BF111845.D

Acq: 4 Jan 2019 15:31

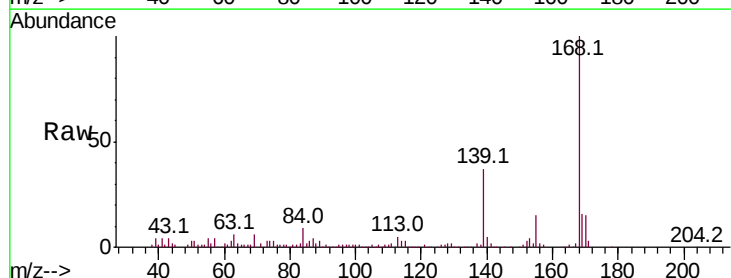
Tgt Ion:168 Resp: 83421

Ion	Ratio	Lower	Upper
168	100		
139	37.0	32.6	49.0
169	15.8	11.8	17.6

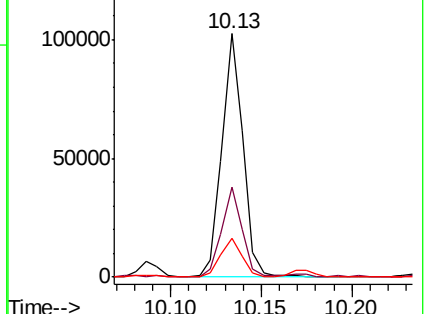
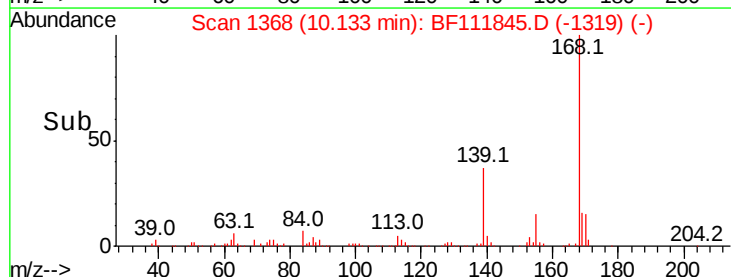
168 100

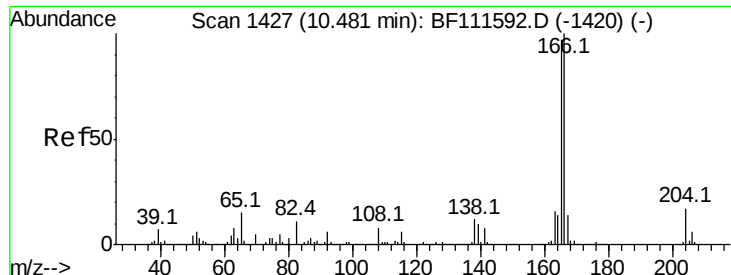
139 37.0 32.6 49.0

169 15.8 11.8 17.6



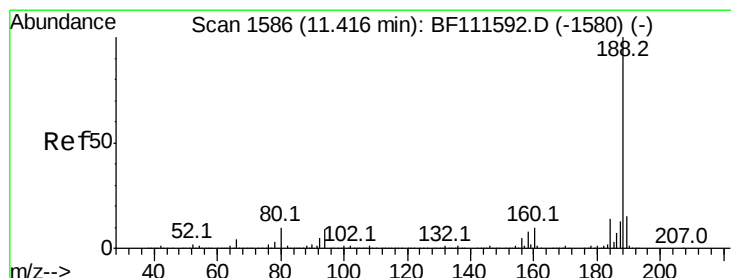
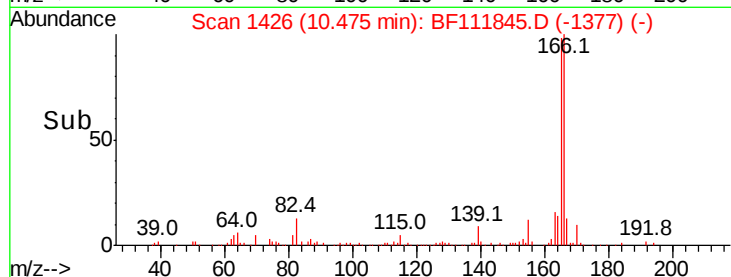
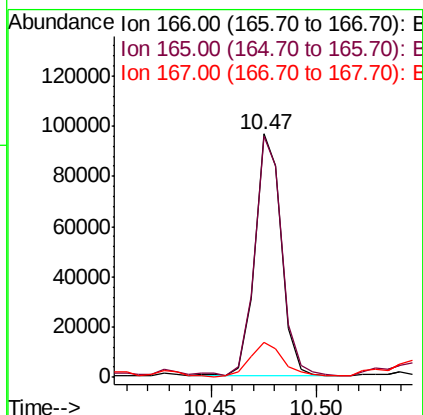
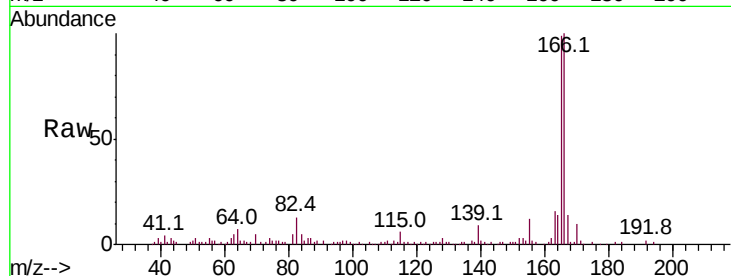
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





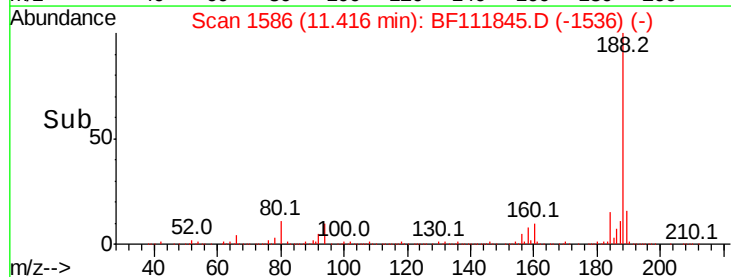
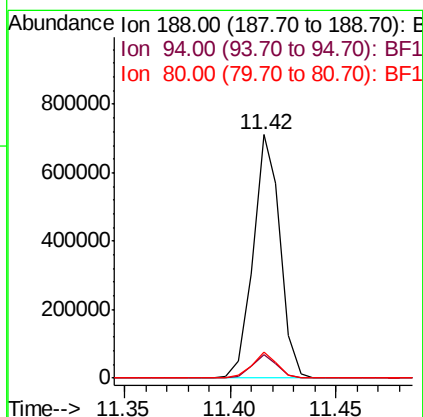
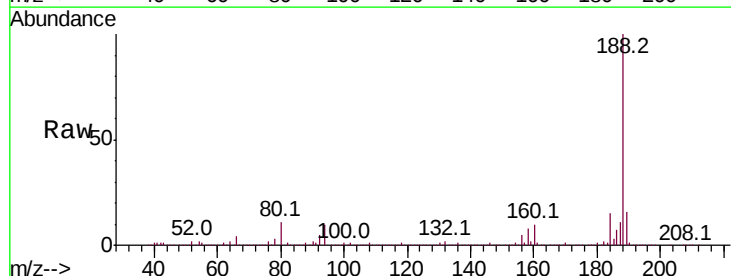
#58
 Fluorene
 Concen: 3.213 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. -0.01 min
 Lab File: BF111845.D
 Acq: 4 Jan 2019 15:31

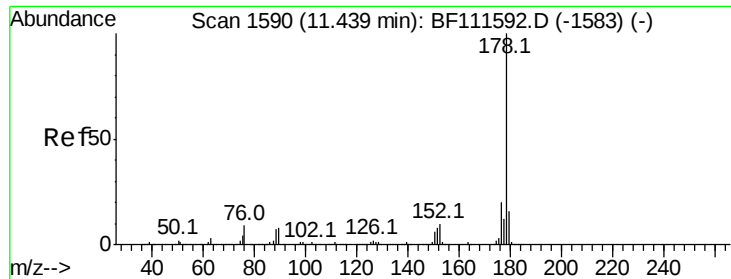
Tot Ion:166 Resp: 84321
 Ion Ratio Lower Upper
 166 100
 165 98.9 78.4 117.6
 167 14.4 11.2 16.8



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: BF111845.D
 Acq: 4 Jan 2019 15:31

Tgt Ion:188 Resp: 627006
 Ion Ratio Lower Upper
 188 100
 94 9.7 9.6 14.4
 80 10.6 9.8 14.6





#71

Phenanthrene

Concen: 26.900 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF111845.D

Acq: 4 Jan 2019 15:31

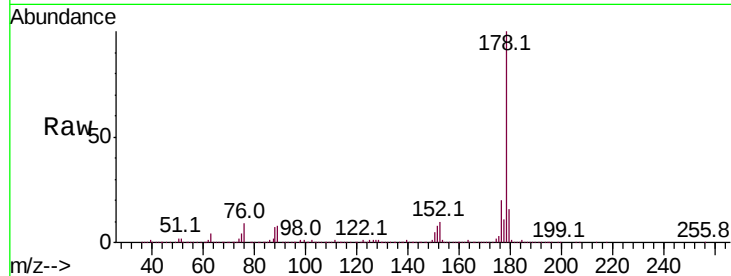
Tot Ion:178 Resp: 894483

Ion Ratio Lower Upper

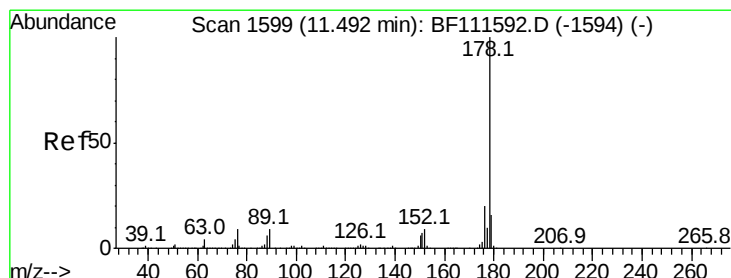
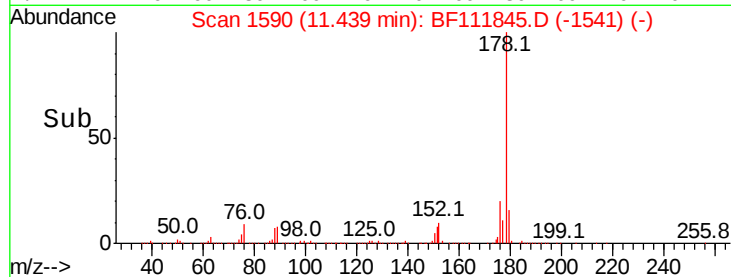
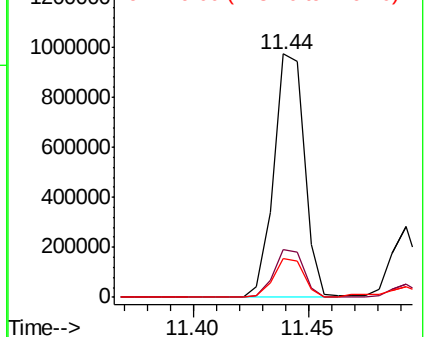
178 100

176 19.6 18.1 27.1

179 16.0 14.0 21.0



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 6.498 ng

RT: 11.49 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BF111845.D

Acq: 4 Jan 2019 15:31

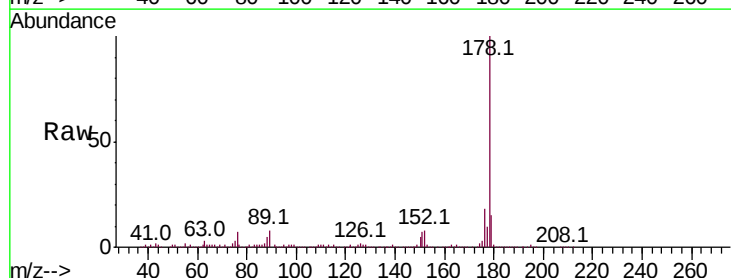
Tgt Ion:178 Resp: 216894

Ion Ratio Lower Upper

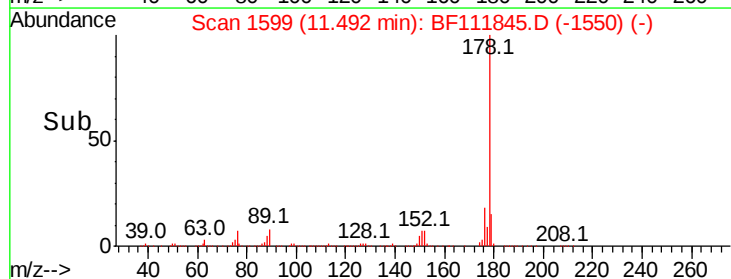
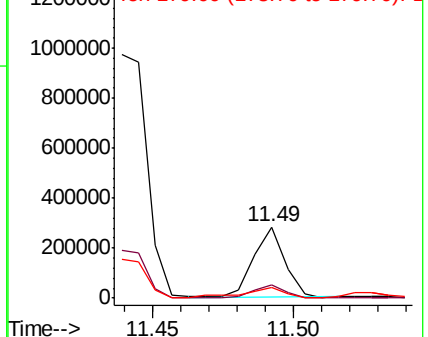
178 100

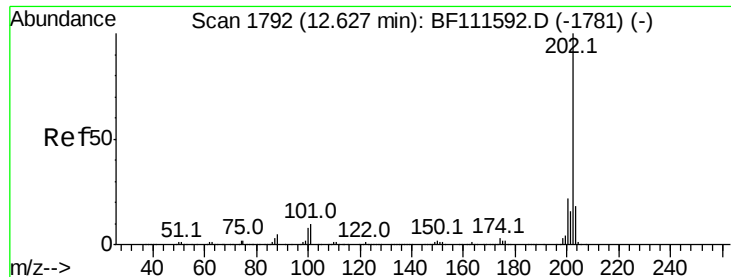
176 18.1 17.2 25.8

179 15.4 13.8 20.8



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 34.482 ng

RT: 12.64 min Scan# 1794

Delta R.T. 0.00 min

Lab File: BF111845.D

Acq: 4 Jan 2019 15:31

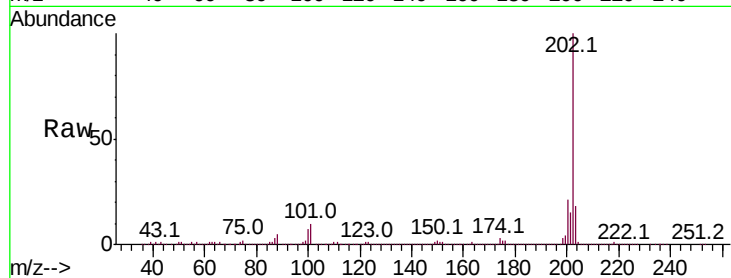
Tot Ion:202 Resp: 1161122

Ion Ratio Lower Upper

202 100

101 9.6 0.0 33.8

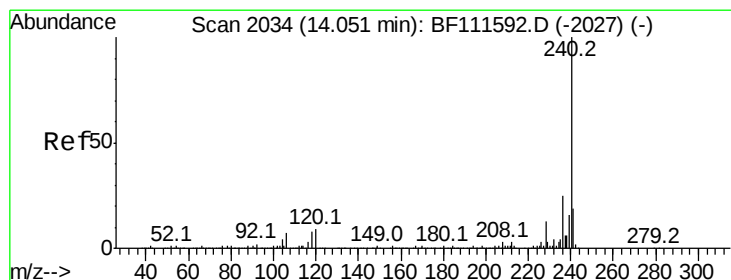
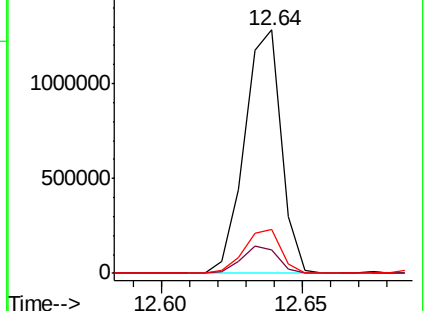
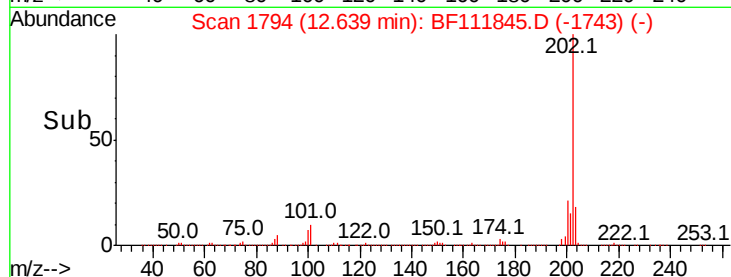
203 18.3 0.0 38.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF111845.D

Acq: 4 Jan 2019 15:31

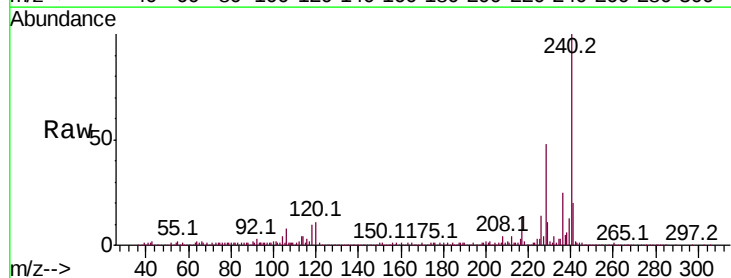
Tgt Ion:240 Resp: 512076

Ion Ratio Lower Upper

240 100

120 11.0 12.2 18.2#

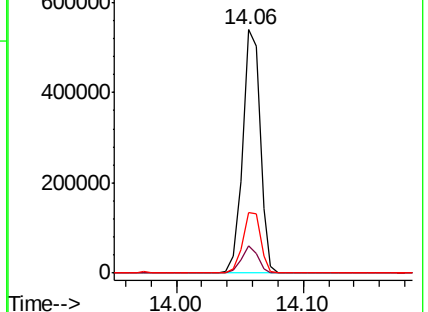
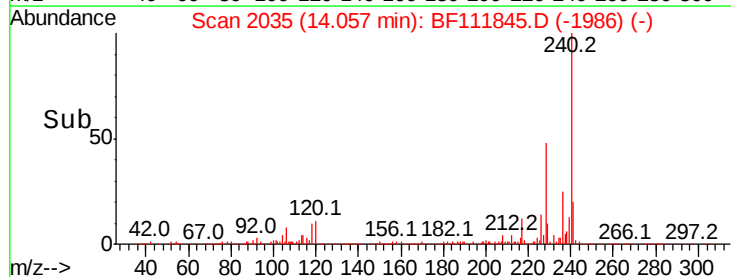
236 24.7 20.2 30.2

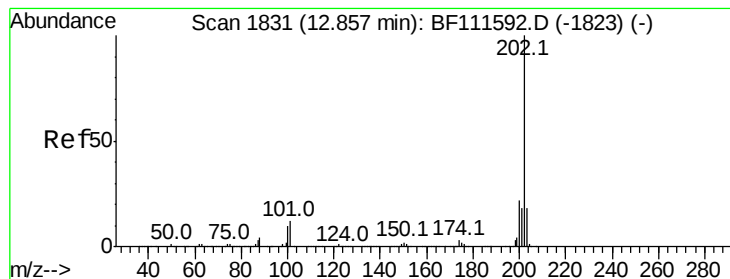


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 31.746 ng

RT: 12.86 min Scan# 1832

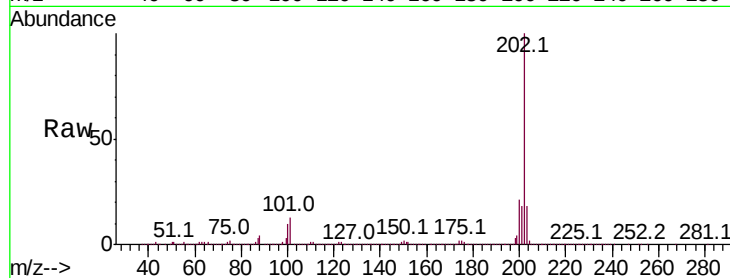
Delta R.T. -0.01 min

Lab File: BF111845.D

Acq: 4 Jan 2019 15:31

Tot Ion:202 Resp: 1147986

Ion	Ratio	Lower	Upper
202	100		
200	21.2	19.0	28.4
203	17.7	15.2	22.8

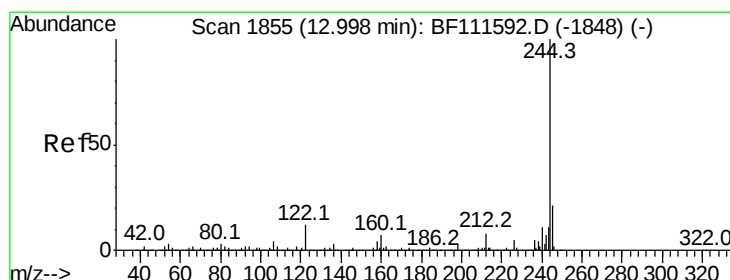
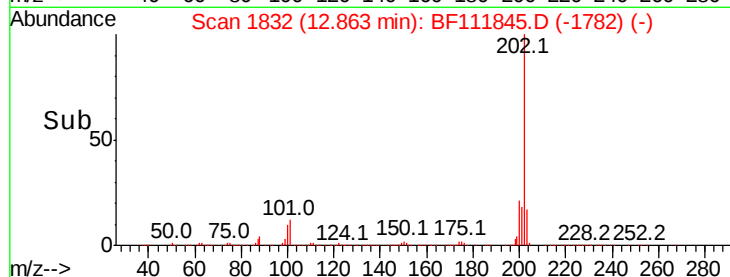
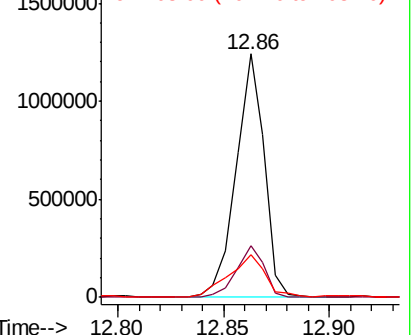


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 45.908 ng

RT: 13.00 min Scan# 1855

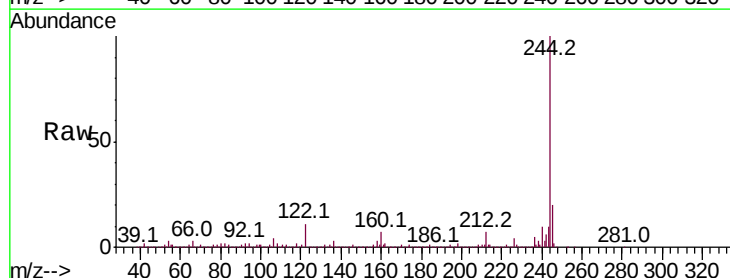
Delta R.T. -0.01 min

Lab File: BF111845.D

Acq: 4 Jan 2019 15:31

Tgt Ion:244 Resp: 1239624

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	11.4	13.1	19.7#

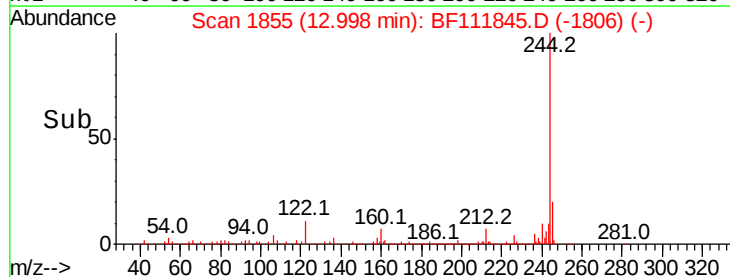
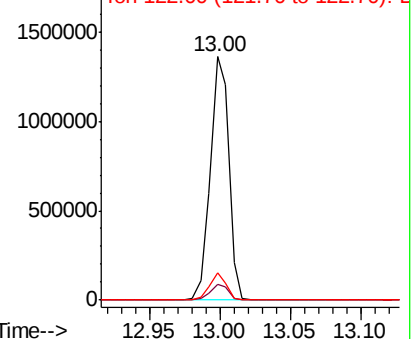


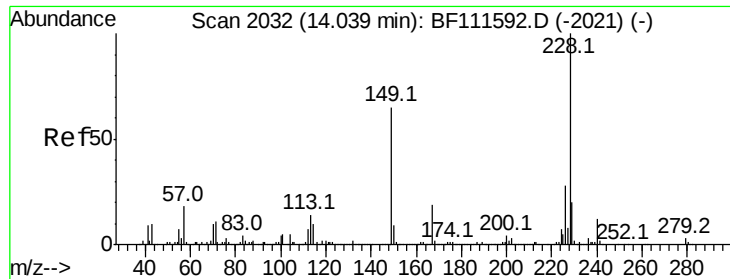
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

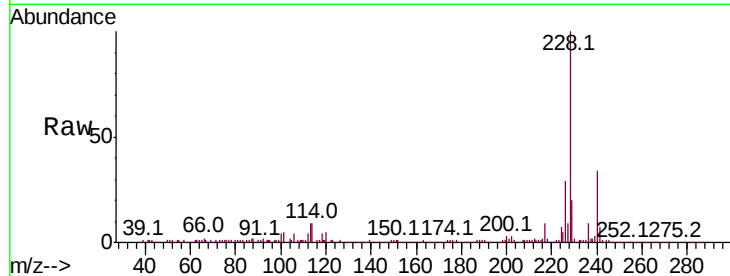
Ion 122.00 (121.70 to 122.70): E



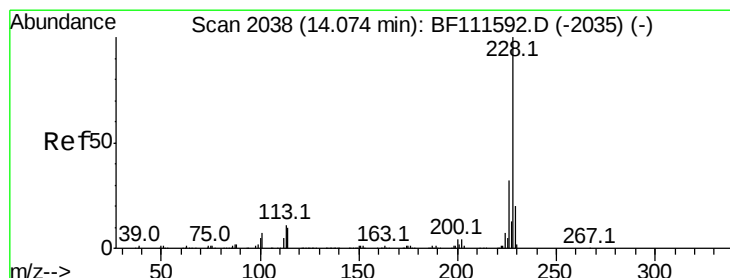
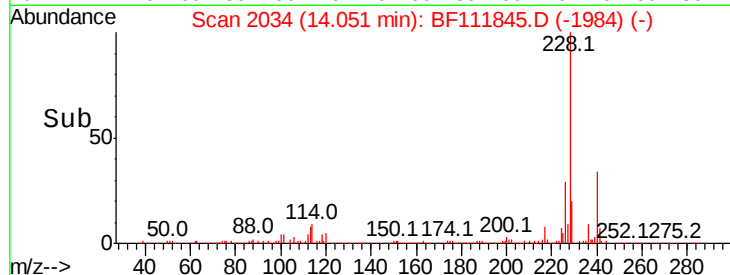
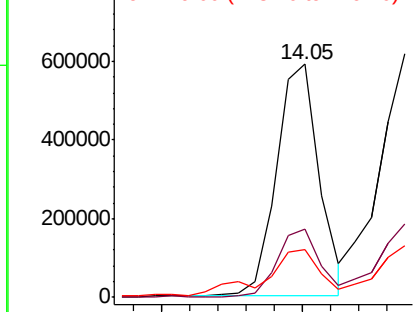


#81
Benzo(a)anthracene
Concen: 21.186 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.6	34.0
229	20.4	16.3	24.5

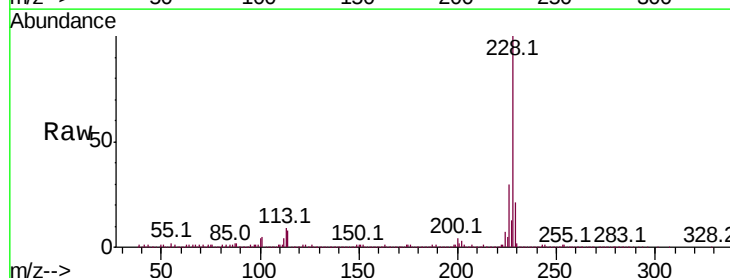


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

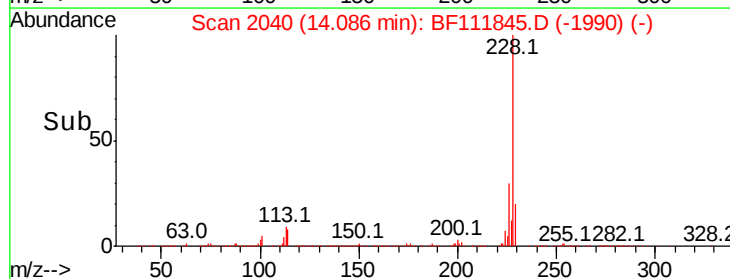
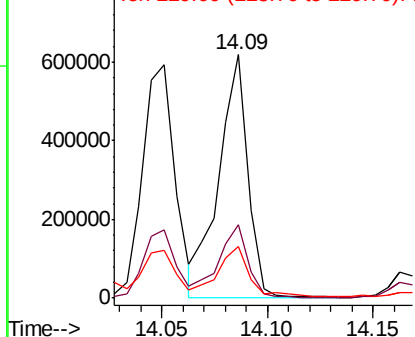


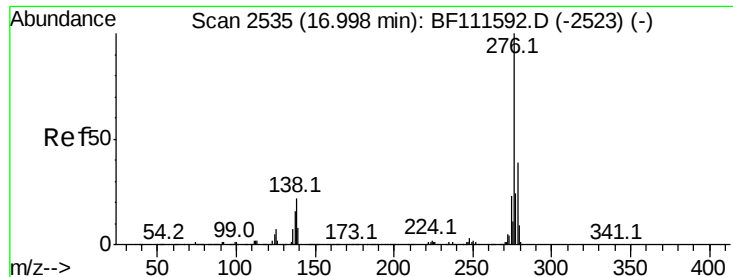
#83
Chrysene
Concen: 20.350 ng
RT: 14.09 min Scan# 2040
Delta R.T. -0.01 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.3	37.9
229	21.4	17.2	25.8



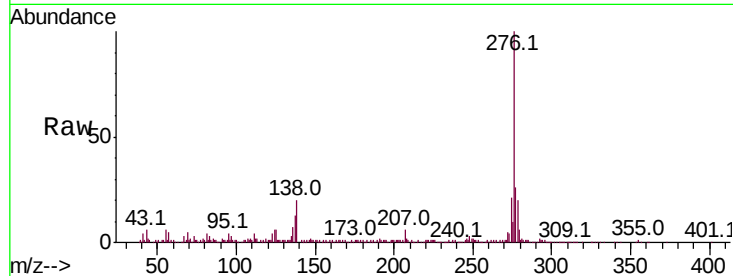
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



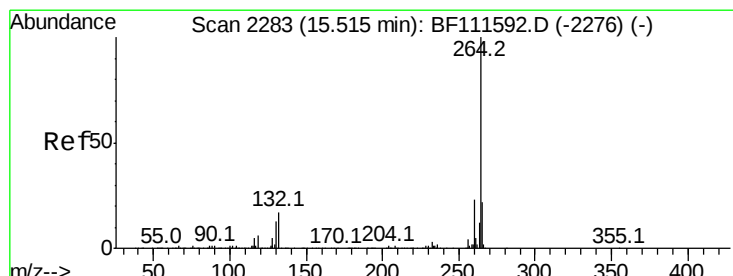
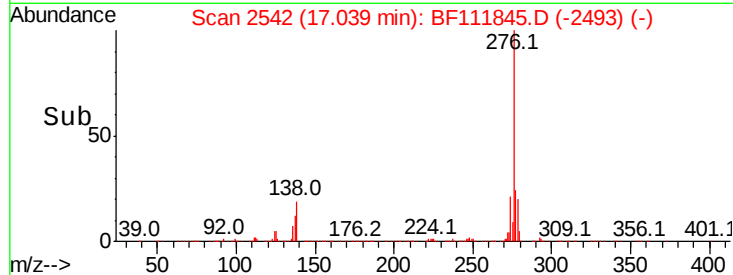
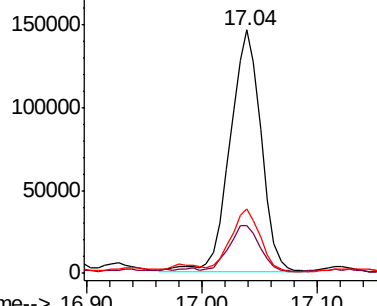


#86
 Indeno(1,2,3-cd)pyrene
 Concen: 11.150 ng
 RT: 17.04 min Scan# 2542
 Delta R.T. -0.01 min
 Lab File: BF111845.D
 Acq: 4 Jan 2019 15:31

Tot Ion:	276	Resp:	272250
Ion	Ratio	Lower	Upper
276	100		
138	19.7	27.8	41.6#
277	24.5	20.1	30.1

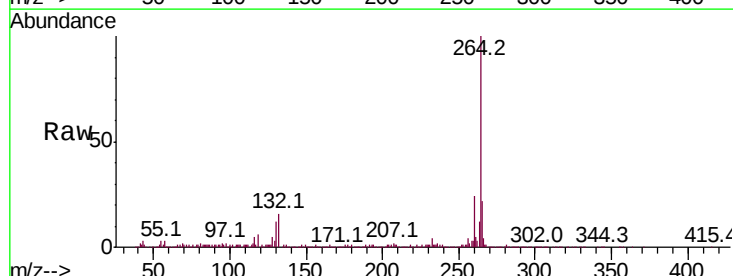


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

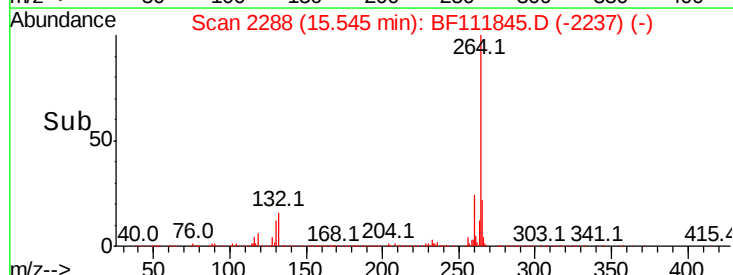
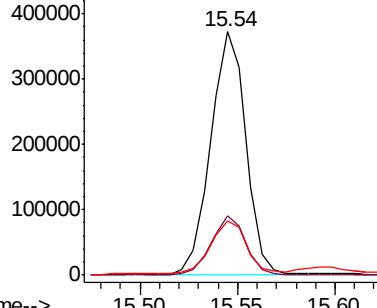


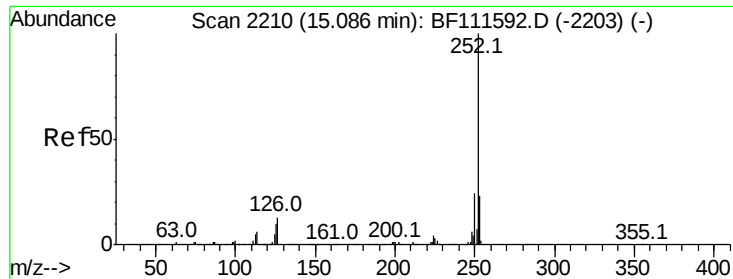
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.54 min Scan# 2288
 Delta R.T. 0.00 min
 Lab File: BF111845.D
 Acq: 4 Jan 2019 15:31

Tgt Ion:	264	Resp:	462832
Ion	Ratio	Lower	Upper
264	100		
260	24.2	18.3	27.5
265	22.2	17.7	26.5



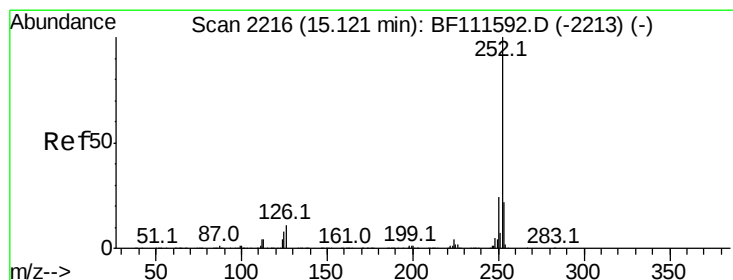
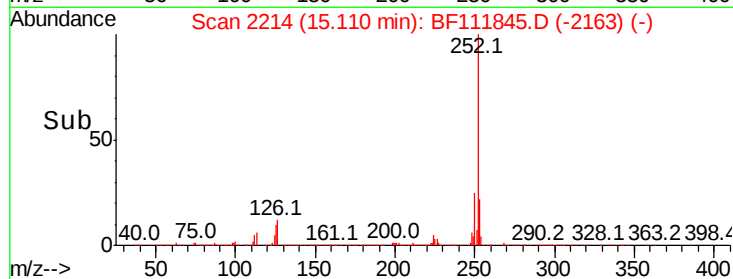
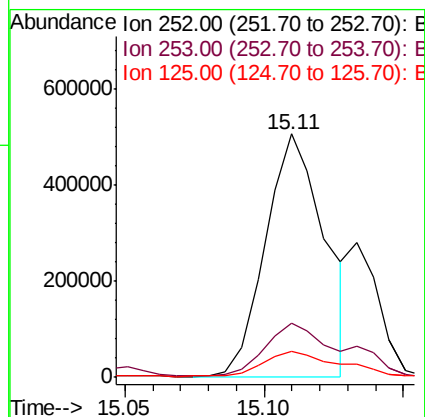
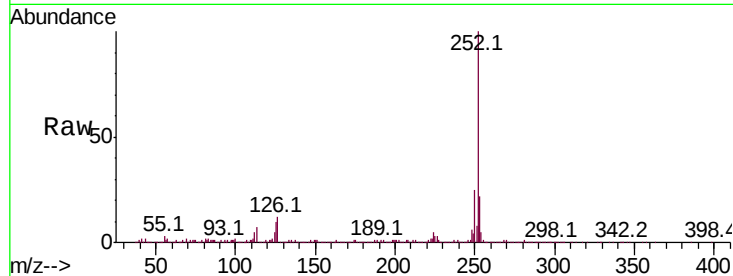
Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





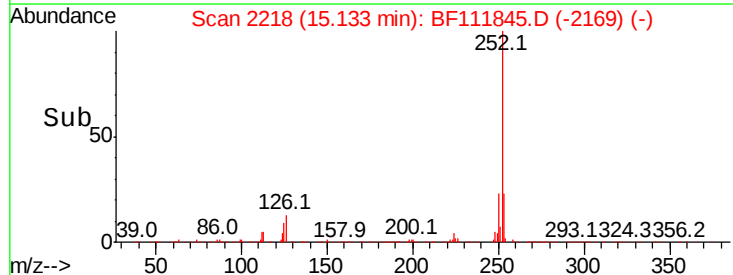
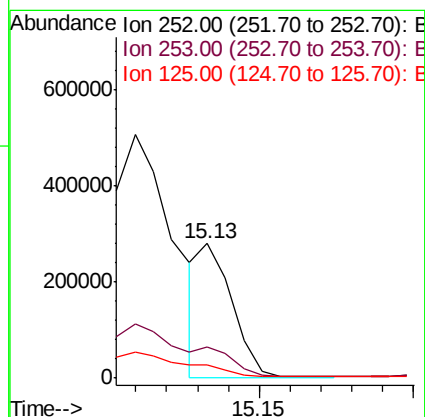
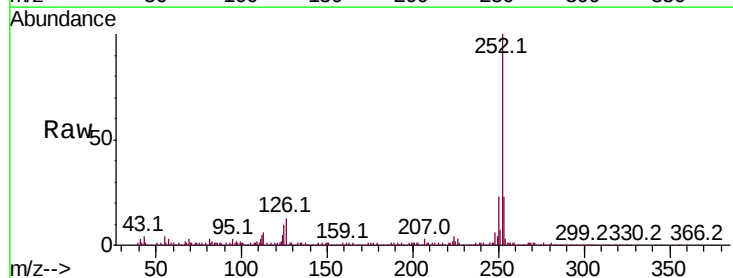
#88
Benzo(b)fluoranthene
Concen: 27.884 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.00 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

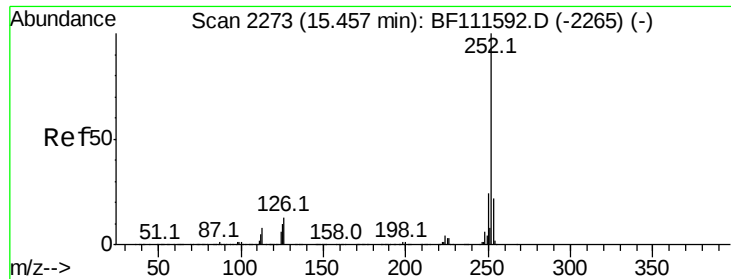
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.2	27.2
125	10.4	10.4	15.6



#89
Benzo(k)fluoranthene
Concen: 8.177 ng m
RT: 15.13 min Scan# 2218
Delta R.T. -0.01 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

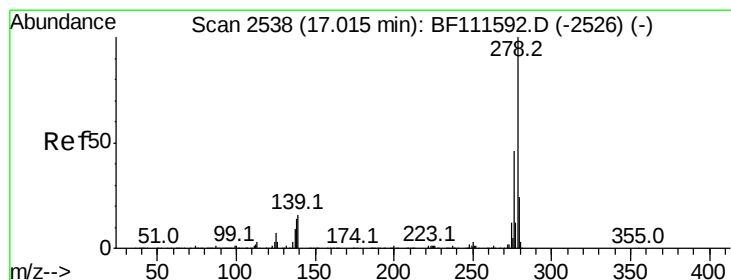
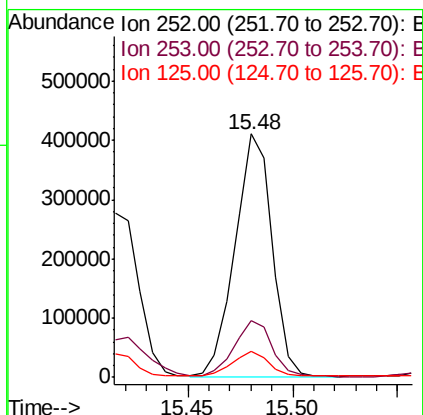
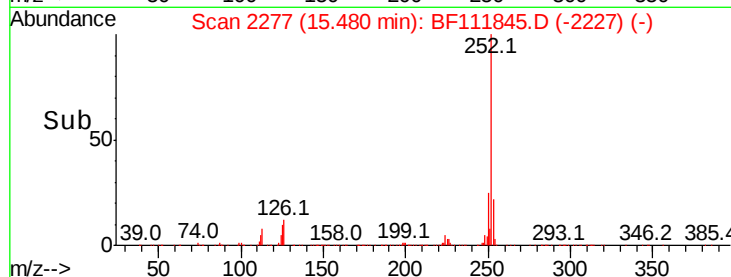
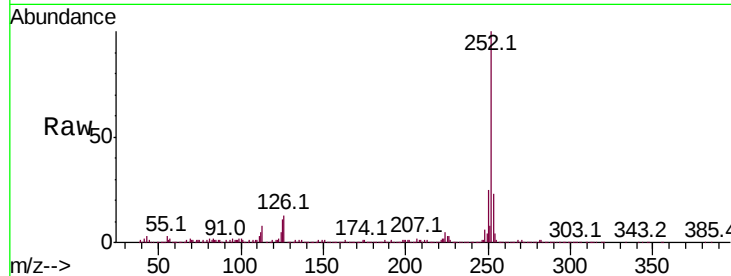
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	9.8	9.8	14.8





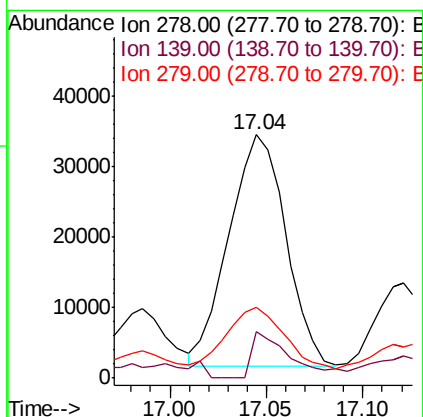
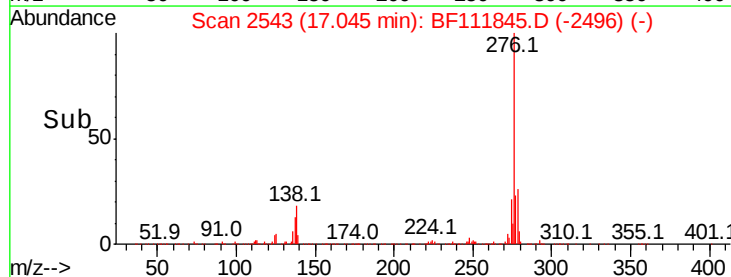
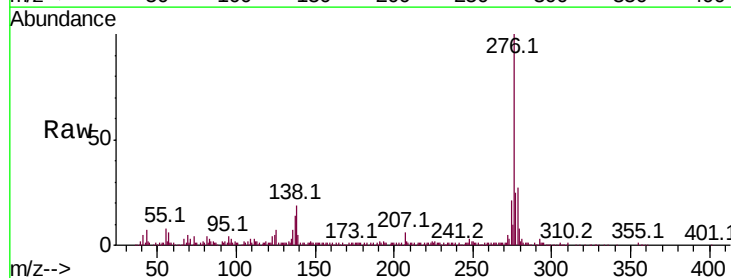
#90
Benzo(a)pyrene
Concen: 20.852 ng m
RT: 15.48 min Scan# 2277
Delta R.T. -0.01 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

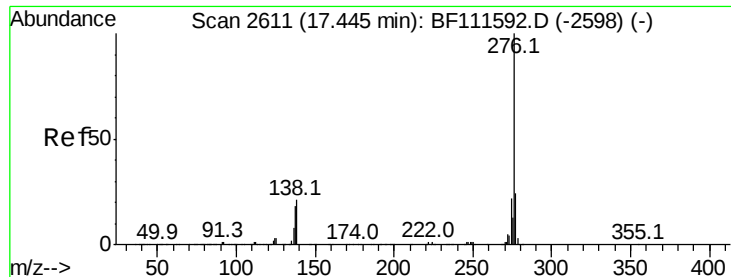
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.8
125	10.9	12.3	18.5



#91
Dibenzo(a,h)anthracene
Concen: 3.133 ng m
RT: 17.04 min Scan# 2543
Delta R.T. -0.02 min
Lab File: BF111845.D
Acq: 4 Jan 2019 15:31

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.9	18.2	27.4
279	29.1	19.0	28.6





#92
 Benzo(a,h,i)perylene
 Concen: 11.873 ng
 RT: 17.49 min Scan# 2619
 Delta R.T. -0.02 min
 Lab File: BF111845.D
 Acq: 4 Jan 2019 15:31

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.6	19.2	28.8
138	20.3	24.9	37.3

