

Data Path : Z:\HPCHEM1\BNA N\Data\BN022718\
 Data File : BN000184.D
 Acq On : 27 Feb 2018 10:59
 Operator : JU/SJ
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 27 11:41:24 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BN022718.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 27 11:40:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.461	152	3902	0.40	ng	0.00
7) Naphthalene-d8	11.287	136	14730	0.40	ng	0.00
13) Acenaphthene-d10	15.056	164	7359	0.40	ng	0.00
19) Phenanthrene-d10	17.777	188	17363	0.40	ng	0.00
27) Chrysene-d12	21.897	240	18165	0.40	ng	0.00
34) Perylene-d12	24.368	264	15321	0.40	ng	0.00

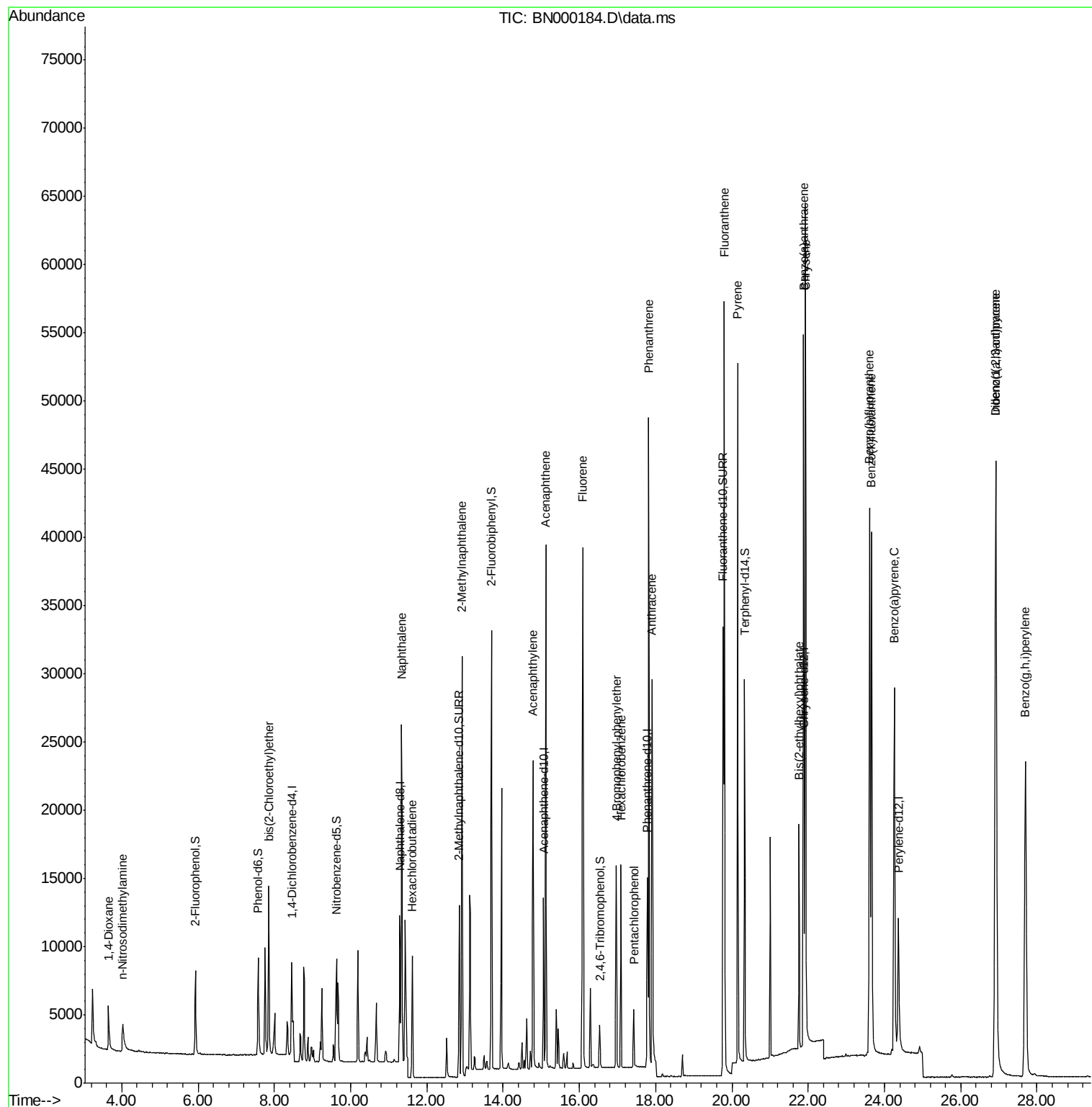
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.929	112	6107	0.59	ng	0.00
5) Phenol-d6	7.580	99	7843	0.55	ng	0.00
8) Nitrobenzene-d5	9.627	82	6483	0.43	ng	0.00
11) 2-Methylnaphthalene-d10	12.850	152	17039	0.69	ng	0.00
14) 2,4,6-Tribromophenol	16.533	330	1855	0.70	ng	0.00
15) 2-Fluorobiphenyl	13.692	172	27152	0.83	ng	0.00
25) Fluoranthene-d10	19.768	212	36116	0.16	ng	0.00
29) Terphenyl-d14	20.336	244	23803	0.66	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.654	88	3574	0.58	ng	# 70
3) n-Nitrosodimethylamine	4.021	42	2033	0.27	ng	# 75
6) bis(2-Chloroethyl)ether	7.853	93	10057	0.69	ng	# 1
9) Naphthalene	11.338	128	32992	0.19	ng	# 73
10) Hexachlorobutadiene	11.619	225	5578	0.56	ng	97
12) 2-Methylnaphthalene	12.921	142	21592	0.74	ng	99
16) Acenaphthylene	14.783	152	25512	0.62	ng	100
17) Acenaphthene	15.127	154	20983	0.81	ng	97
18) Fluorene	16.087	166	26628	0.83	ng	# 80
20) 4-Bromophenyl-phenylether	16.969	248	7596	0.70	ng	# 84
21) Hexachlorobenzene	17.086	284	10029	0.89	ng	# 78
22) Pentachlorophenol	17.426	266	2343	0.90	ng	# 70
23) Phenanthrene	17.820	178	46946	0.87	ng	99
24) Anthracene	17.905	178	35588	0.71	ng	# 95
26) Fluoranthene	19.798	202	50063	0.75	ng	# 96
28) Pyrene	20.155	202	51032	0.69	ng	100
30) Benzo(a)anthracene	21.876	228	43137	0.73	ng	96
31) Chrysene	21.929	228	51826	0.88	ng	99
32) Bis(2-ethylhexyl)phtha...	21.759	149	13940	0.13	ng	# 49
33) Indeno(1,2,3-cd)pyrene	26.915	276	53677	0.94	ng	# 89
35) Benzo(b)fluoranthene	23.611	252	53271	0.98	ng	94
36) Benzo(k)fluoranthene	23.659	252	54131	1.00	ng	# 90
37) Benzo(a)pyrene	24.258	252	44180	0.90	ng	# 92
38) Dibenzo(a,h)anthracene	26.925	278	42775	0.98	ng	# 91
39) Benzo(g,h,i)perylene	27.698	276	48542	1.04	ng	# 86

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 8.461 min Scan# 635

Delta R.T. -0.000 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

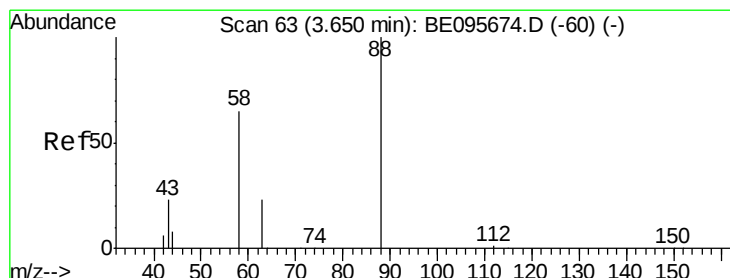
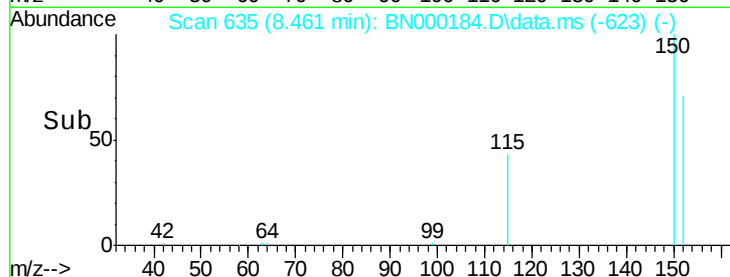
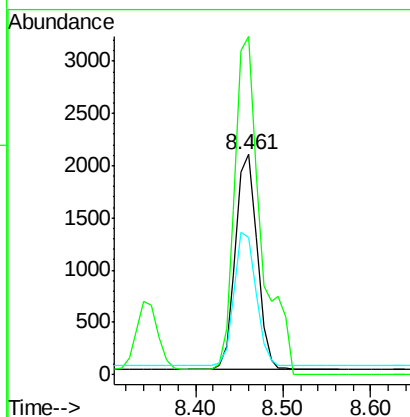
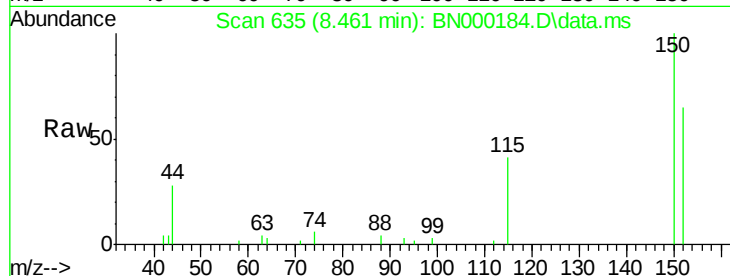
Tot Ion:152 Resp: 3902

Ion Ratio Lower Upper

152 100

150 153.5 117.2 175.8

115 62.5 57.0 85.6



#2

1,4-Dioxane

Concen: 0.58 ng

RT: 3.654 min Scan# 73

Delta R.T. -0.009 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

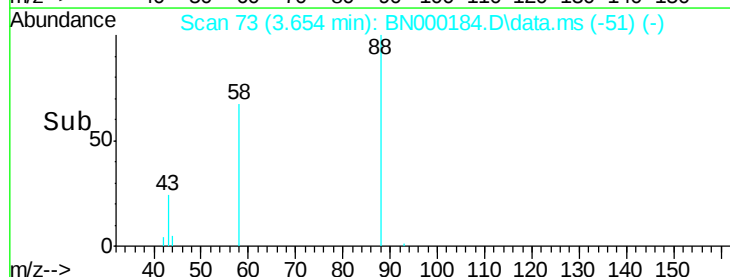
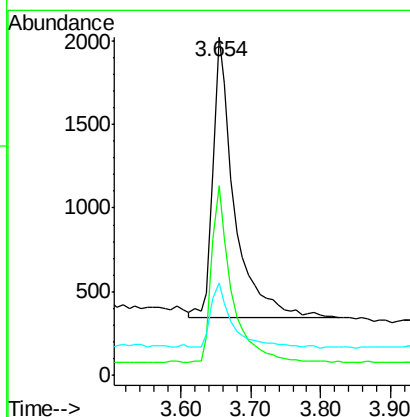
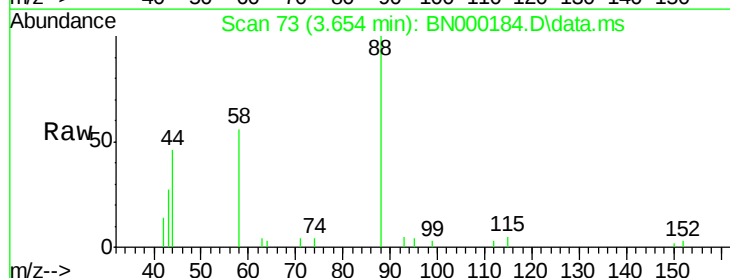
Tgt Ion: 88 Resp: 3574

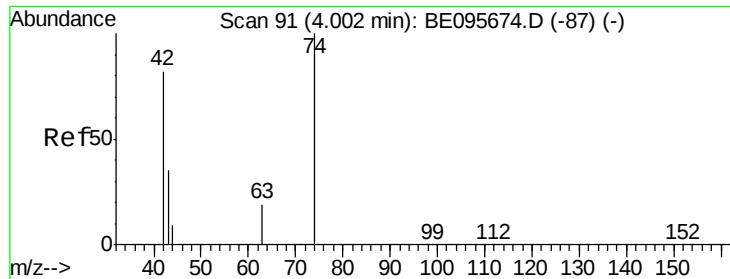
Ion Ratio Lower Upper

88 100

58 60.2 63.2 94.8#

43 22.2 41.2 61.8#

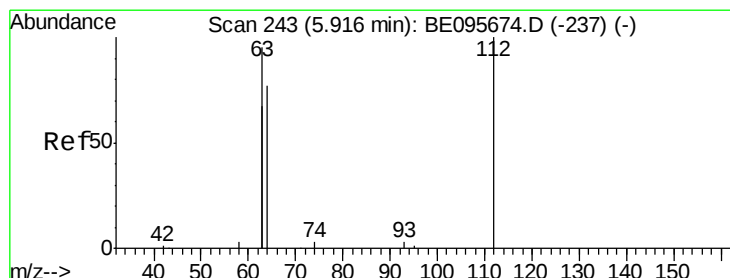
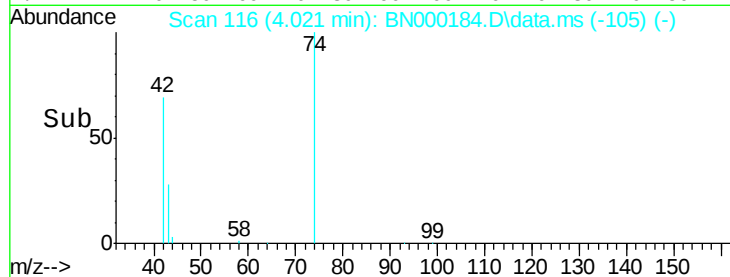
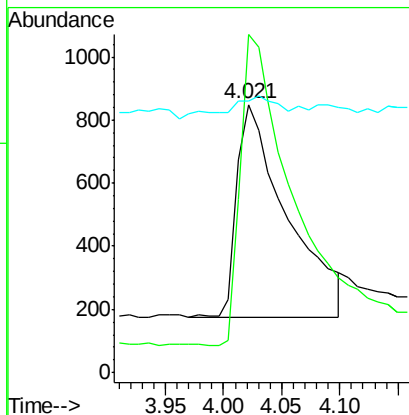
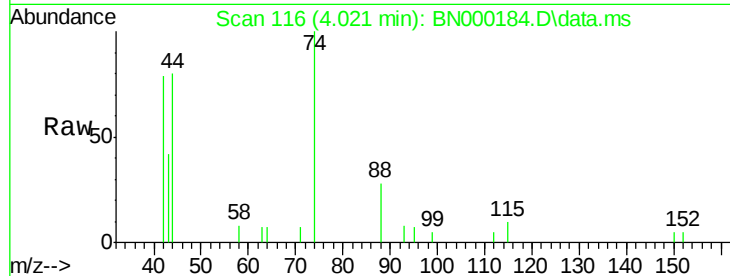




#3

n-Nitrosodimethylamine
 Concen: 0.27 ng
 RT: 4.021 min Scan# 116
 Delta R.T. -0.009 min
 Lab File: BN000184.D
 Acq: 27 Feb 2018 10:59

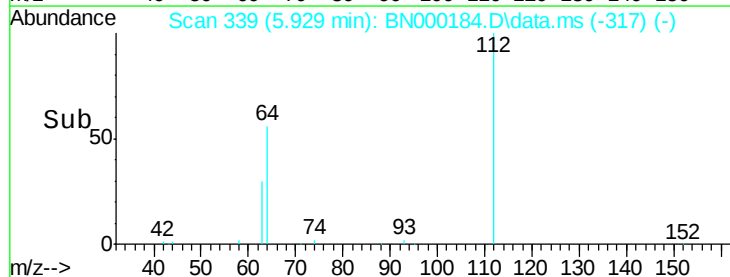
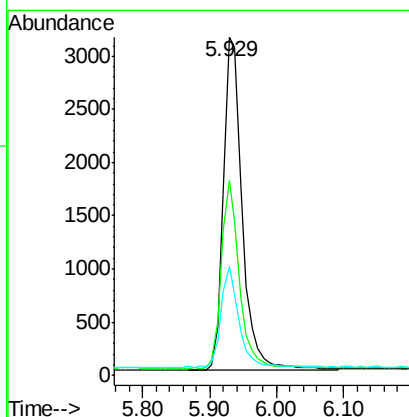
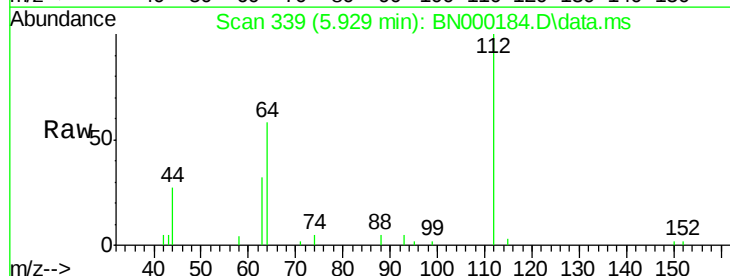
Tot Ion	42	Resp	2033
Ion Ratio	Lower	Upper	
42	100		
74	147.8	96.0	144.0#
44	6.4	12.0	18.0#

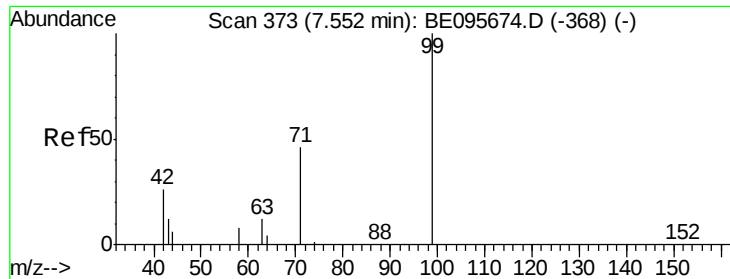


#4

2-Fluorophenol
 Concen: 0.59 ng
 RT: 5.929 min Scan# 339
 Delta R.T. -0.009 min
 Lab File: BN000184.D
 Acq: 27 Feb 2018 10:59

Tgt Ion	112	Resp	6107
Ion Ratio	Lower	Upper	
112	100		
64	53.8	60.1	90.1#
63	28.8	116.8	175.2#





#5

Phenol-d6

Concen: 0.55 ng

RT: 7.580 min Scan# 532

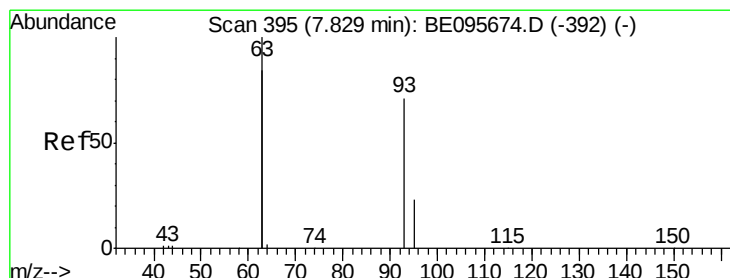
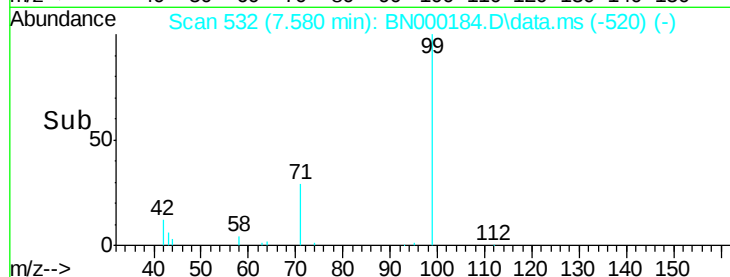
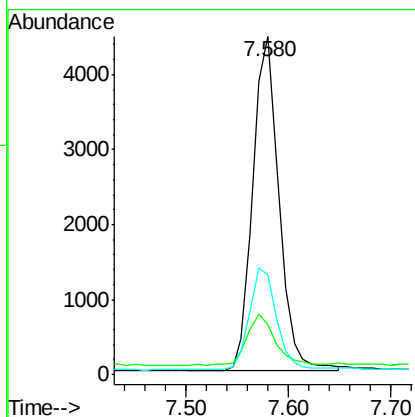
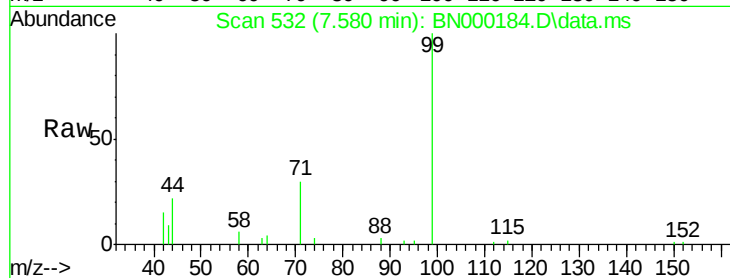
Delta R.T. -0.000 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

Tot Ion: 99 Resp: 7843

Ion	Ratio	Lower	Upper
99	100		
42	16.2	20.2	30.2#
71	31.5	28.4	42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.69 ng

RT: 7.853 min Scan# 564

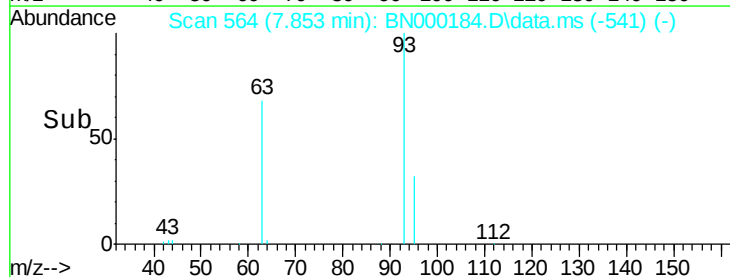
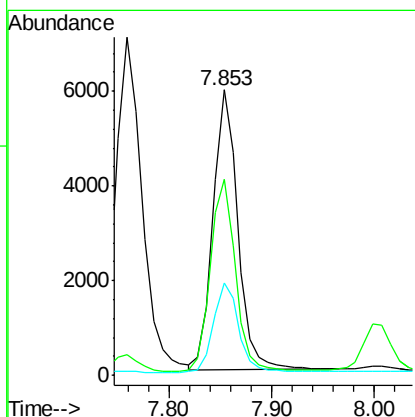
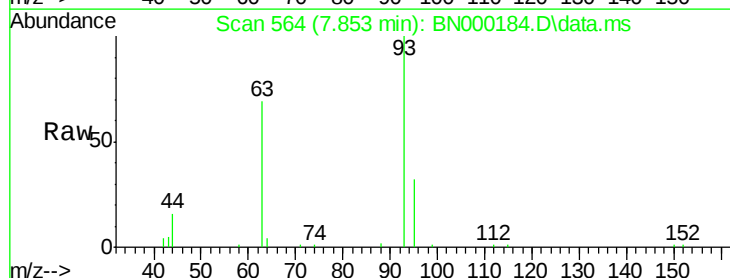
Delta R.T. -0.000 min

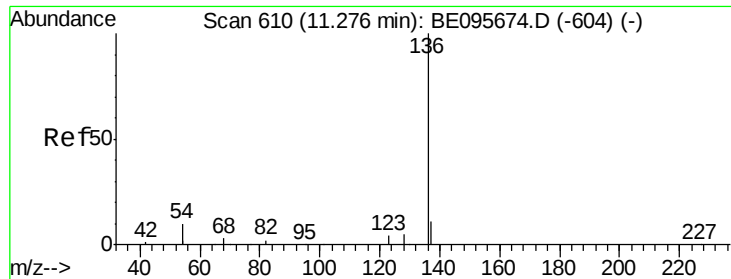
Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

Tgt Ion: 93 Resp: 10057

Ion	Ratio	Lower	Upper
93	100		
63	68.8	275.3	412.9#
95	32.2	25.2	37.8





#7

Naphthalene-d8

Concen: 0.40 ng

RT: 11.287 min Scan# 860

Delta R.T. -0.000 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

Tot Ion:136 Resp: 14730

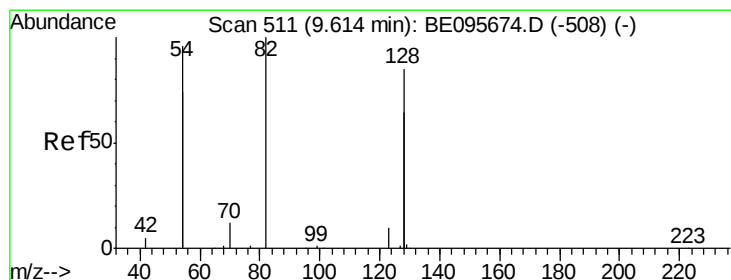
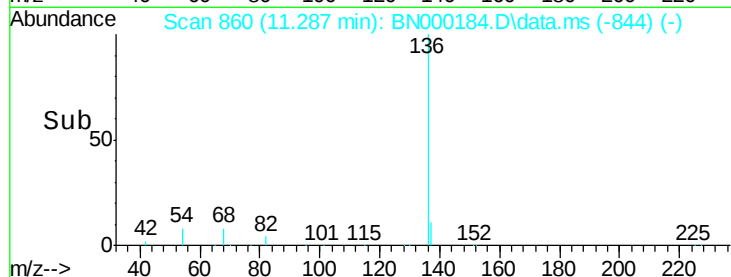
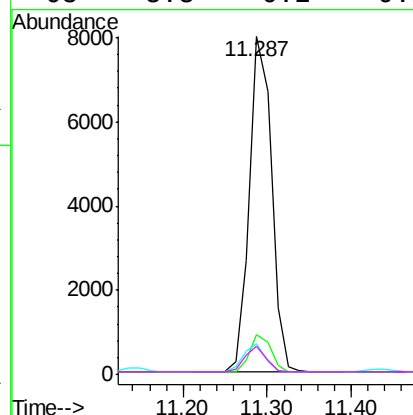
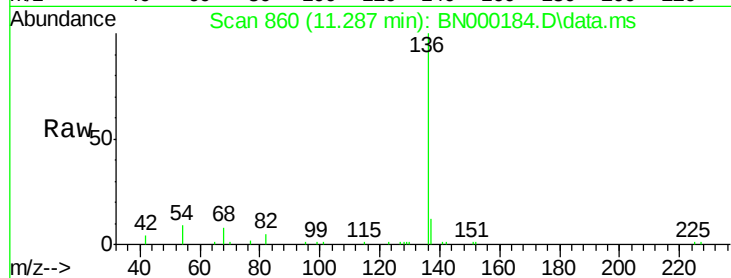
Ion Ratio Lower Upper

136 100

137 11.6 9.5 14.3

54 9.3 29.1 43.7#

68 8.3 6.2 9.2



#8

Nitrobenzene-d5

Concen: 0.43 ng

RT: 9.627 min Scan# 729

Delta R.T. -0.000 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

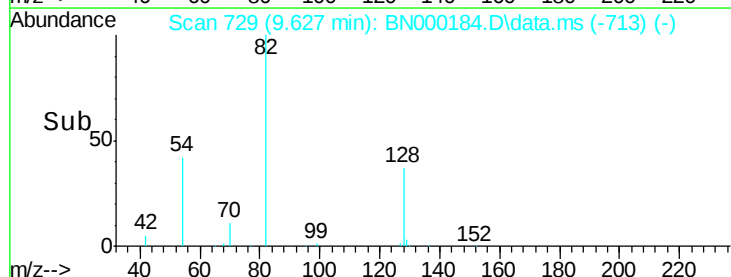
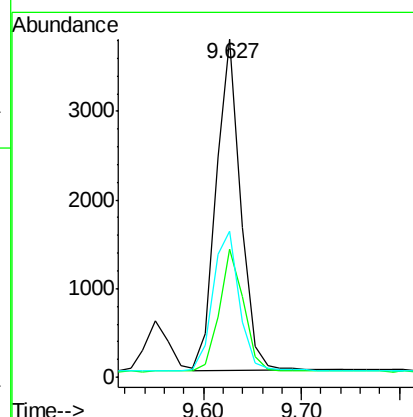
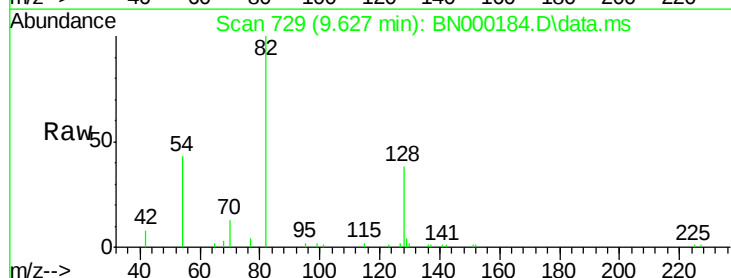
Tgt Ion: 82 Resp: 6483

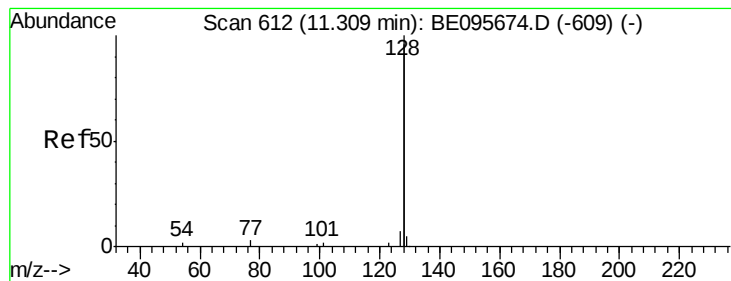
Ion Ratio Lower Upper

82 100

128 37.9 150.0 225.0#

54 43.1 154.2 231.4#





#9

Naphthalene

Concen: 0.19 ng

RT: 11.338 min Scan# 864

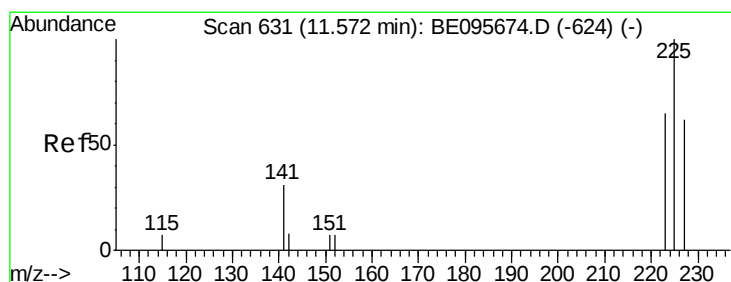
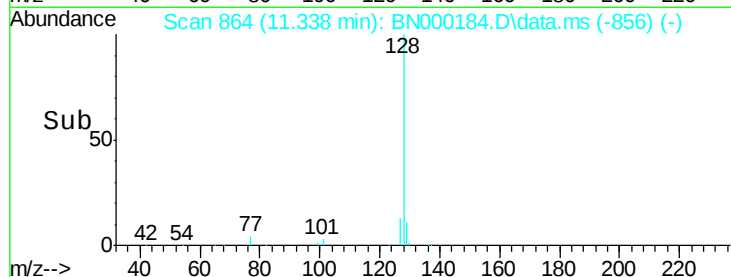
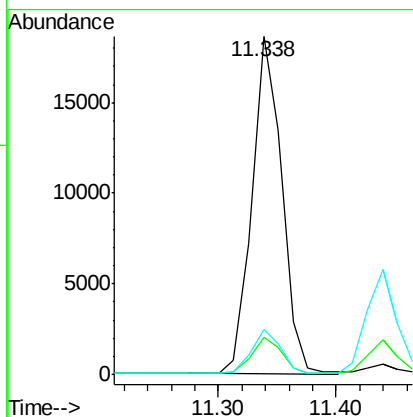
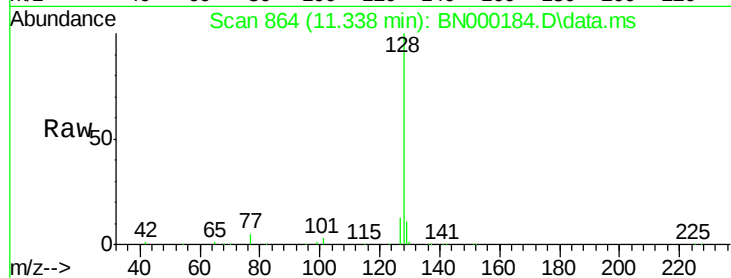
Delta R.T. -0.000 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

Tot Ion:128 Resp: 32992

Ion	Ratio	Lower	Upper
128	100		
129	11.1	2.6	3.8#
127	13.3	2.8	4.2#



#10

Hexachlorobutadiene

Concen: 0.56 ng

RT: 11.619 min Scan# 903

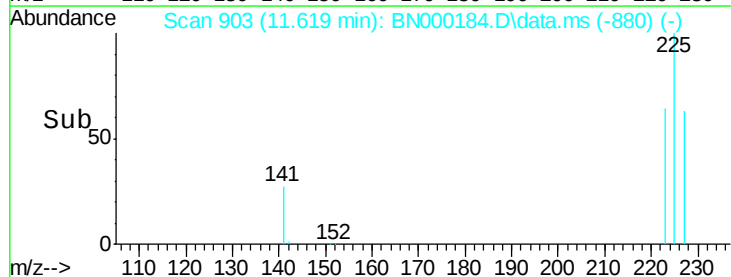
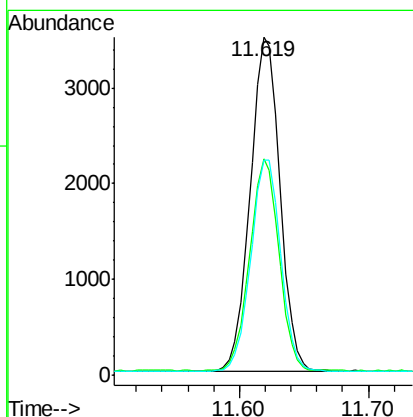
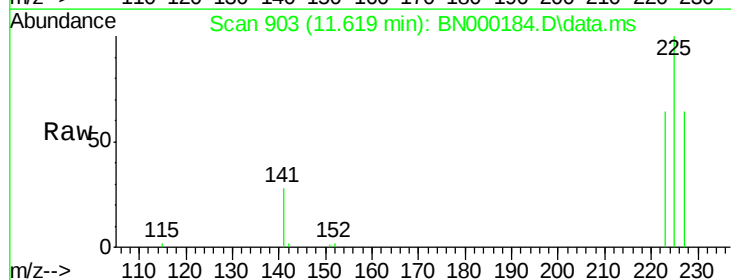
Delta R.T. 0.001 min

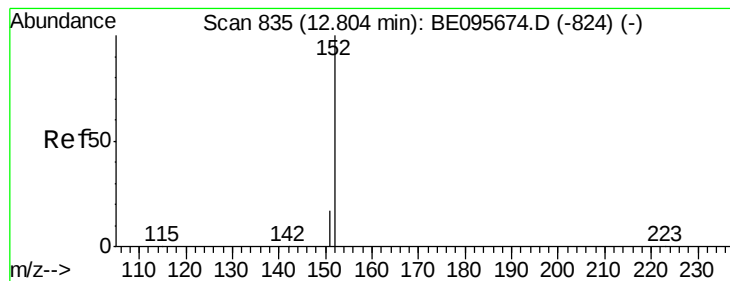
Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

Tgt Ion:225 Resp: 5578

Ion	Ratio	Lower	Upper
225	100		
223	62.9	53.0	79.6
227	63.6	51.4	77.2





#11

2-Methylnaphthalene-d10

Concen: 0.69 ng

RT: 12.850 min Scan# 1180

Delta R.T. 0.001 min

Lab File: BN000184.D

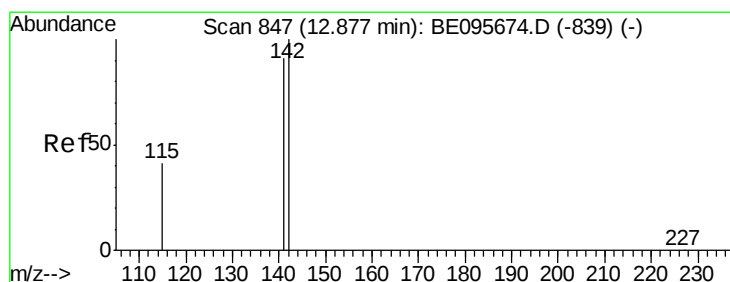
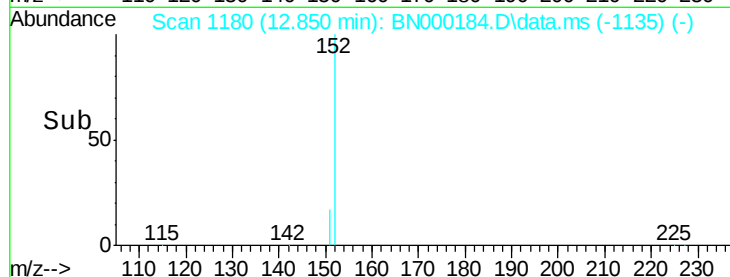
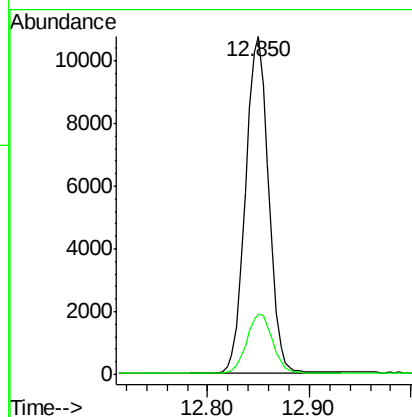
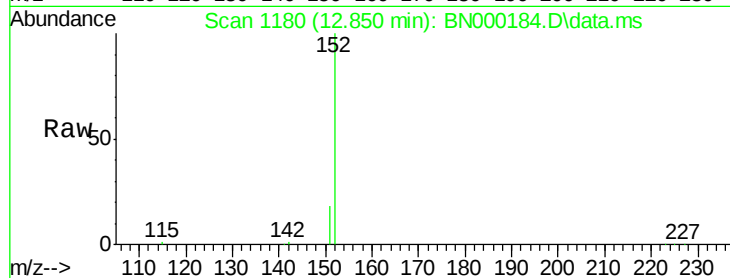
Acq: 27 Feb 2018 10:59

Tot Ion:152 Resp: 17039

Ion Ratio Lower Upper

152 100

151 19.5 15.4 23.0



#12

2-Methylnaphthalene

Concen: 0.74 ng

RT: 12.921 min Scan# 1196

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

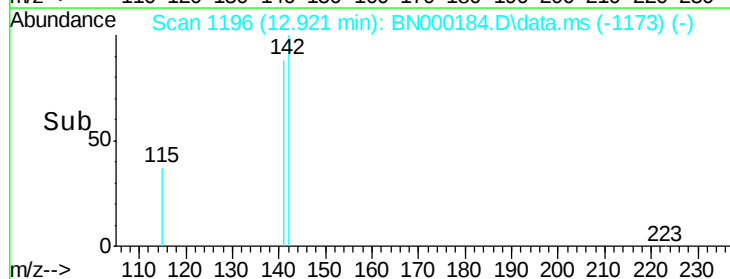
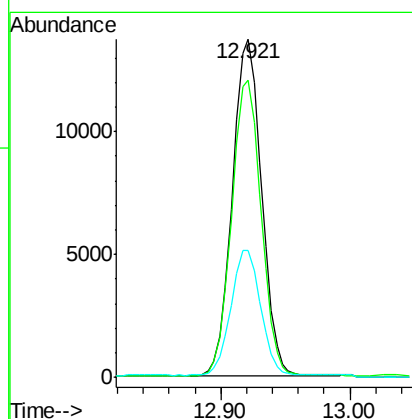
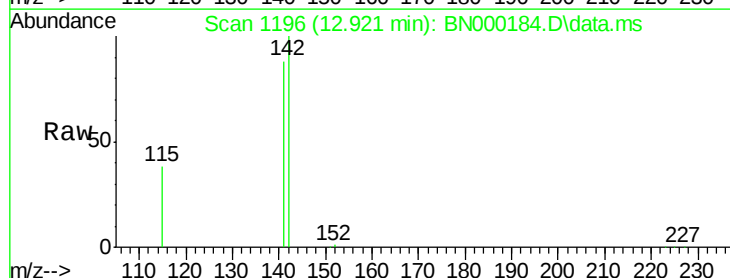
Tgt Ion:142 Resp: 21592

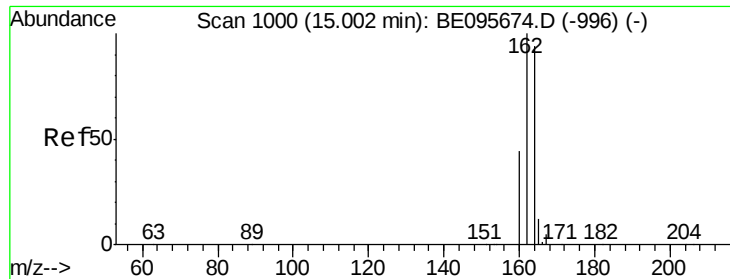
Ion Ratio Lower Upper

142 100

141 87.8 70.4 105.6

115 37.6 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 15.056 min Scan# 1418

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

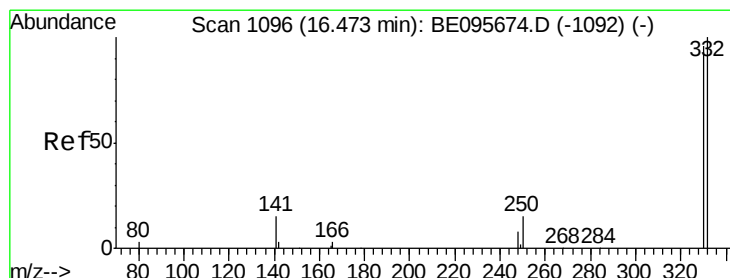
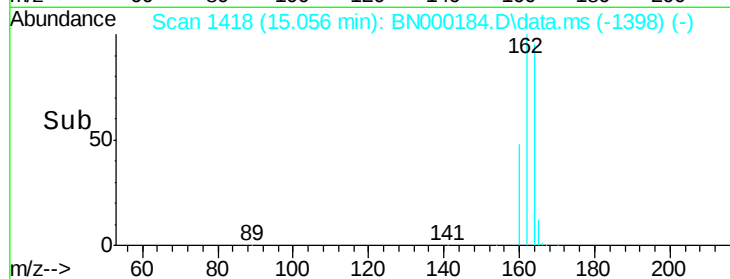
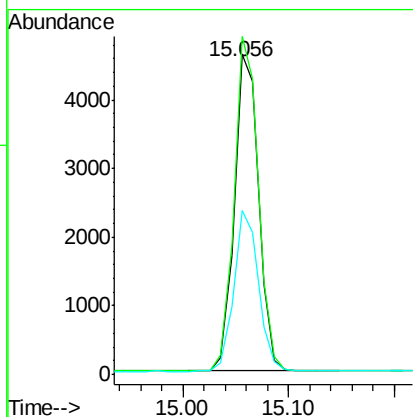
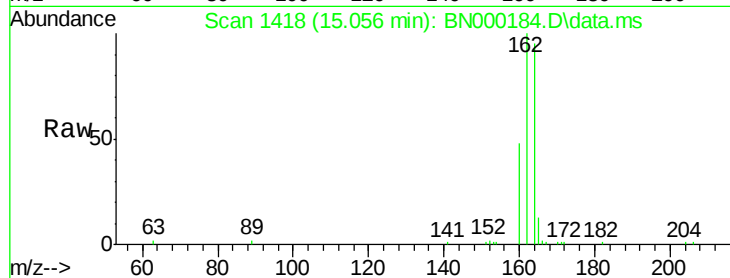
Tot Ion:164 Resp: 7359

Ion Ratio Lower Upper

164 100

162 105.6 83.1 124.7

160 51.1 37.1 55.7



#14

2,4,6-Tribromophenol

Concen: 0.70 ng

RT: 16.533 min Scan# 1561

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

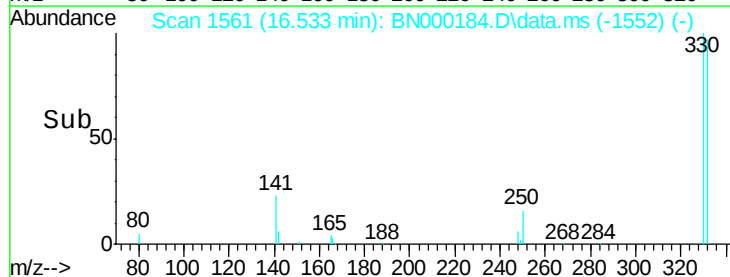
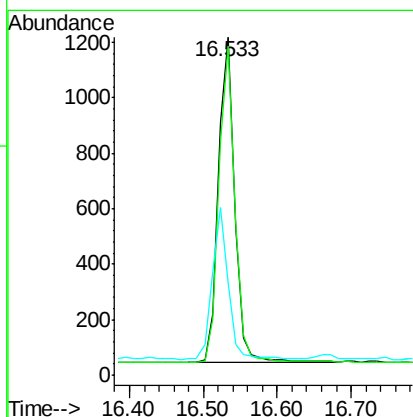
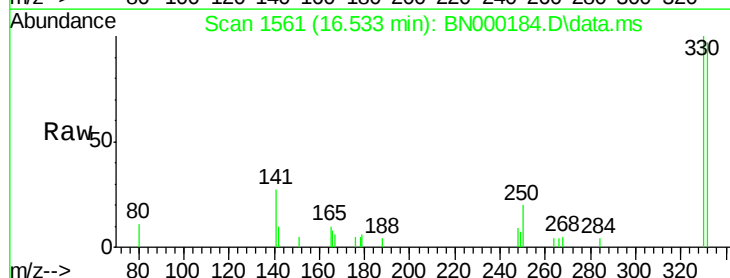
Tgt Ion:330 Resp: 1855

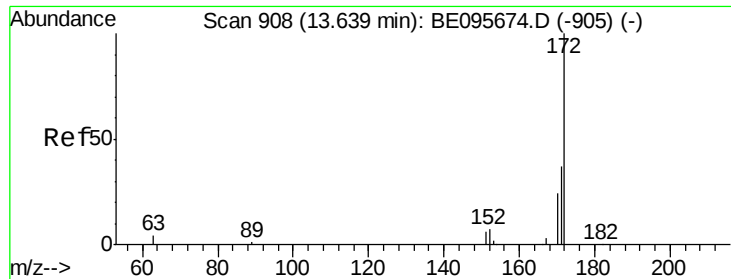
Ion Ratio Lower Upper

330 100

332 96.2 152.7 229.1#

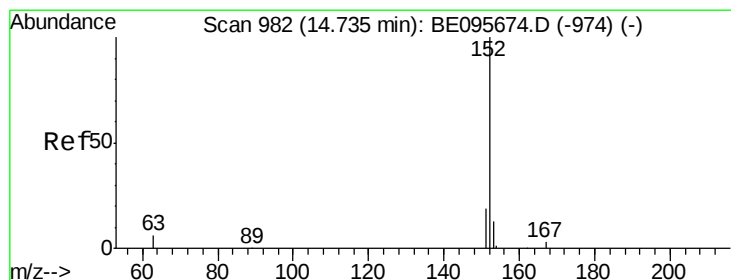
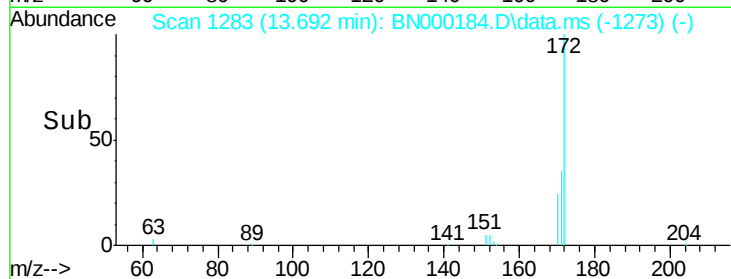
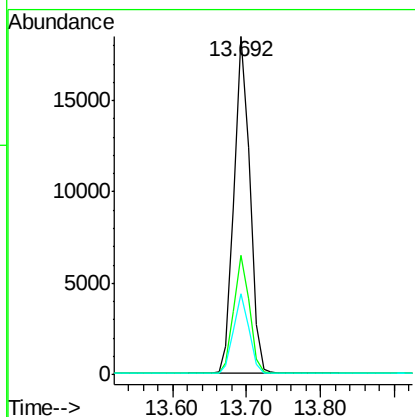
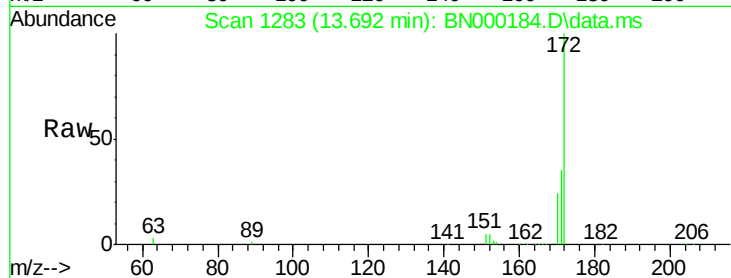
141 45.1 33.7 50.5





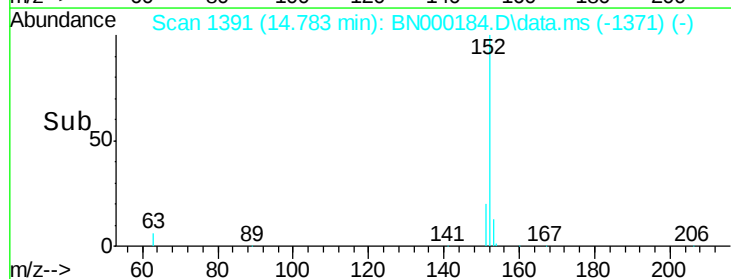
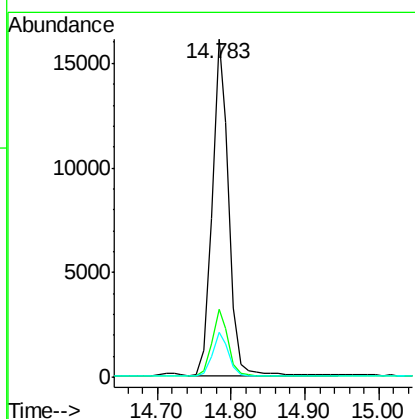
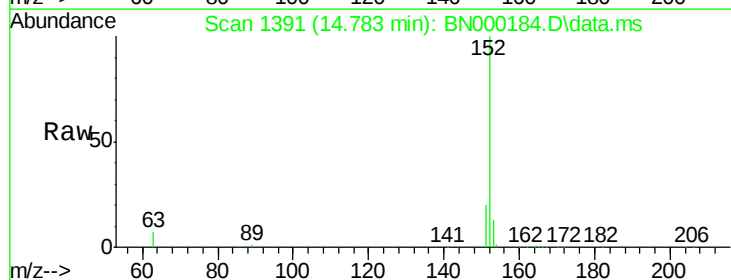
#15
2-Fluorobiphenyl
Concen: 0.83 ng
RT: 13.692 min Scan# 1283
Delta R.T. 0.001 min
Lab File: BN000184.D
Acq: 27 Feb 2018 10:59

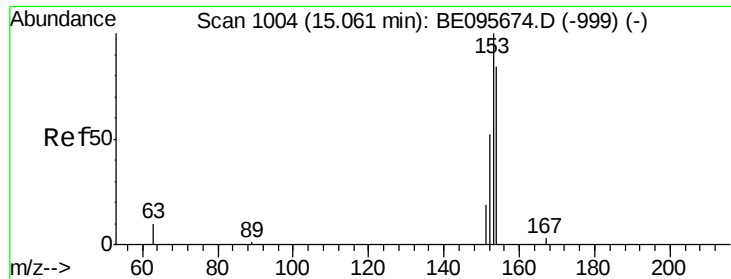
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.9	44.9
170	23.8	21.8	32.8



#16
Acenaphthylene
Concen: 0.62 ng
RT: 14.783 min Scan# 1391
Delta R.T. 0.001 min
Lab File: BN000184.D
Acq: 27 Feb 2018 10:59

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.7	23.5
153	12.9	10.5	15.7





#17

Acenaphthene

Concen: 0.81 ng

RT: 15.127 min Scan# 1425

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

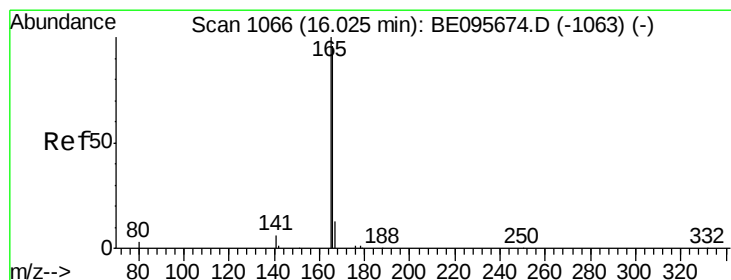
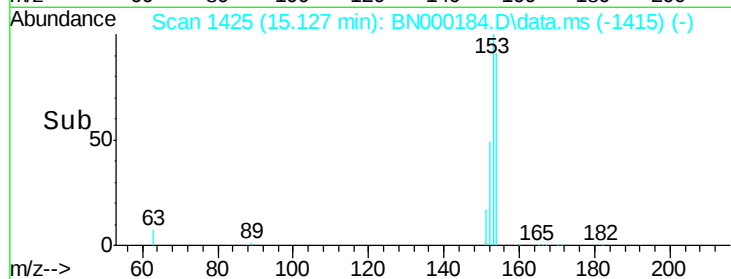
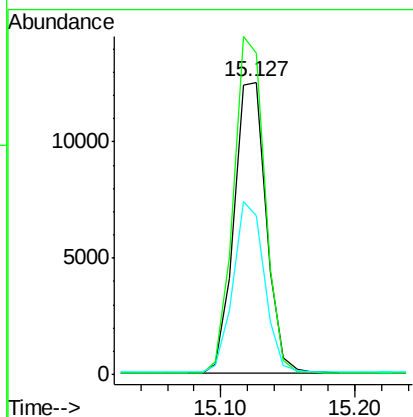
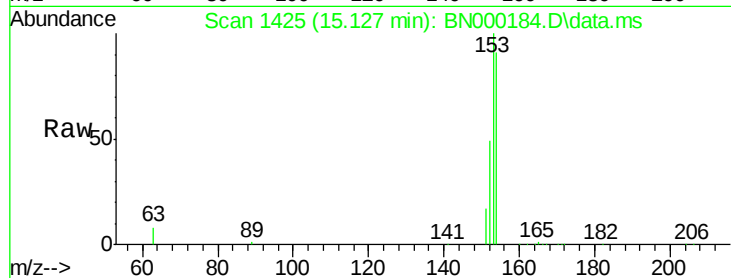
Tot Ion:154 Resp: 20983

Ion Ratio Lower Upper

154 100

153 112.4 89.2 133.8

152 56.7 42.0 63.0



#18

Fluorene

Concen: 0.83 ng

RT: 16.087 min Scan# 1519

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

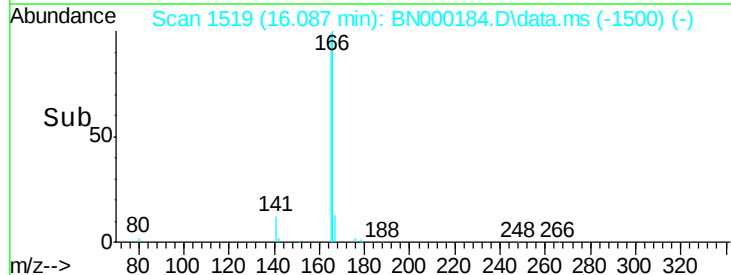
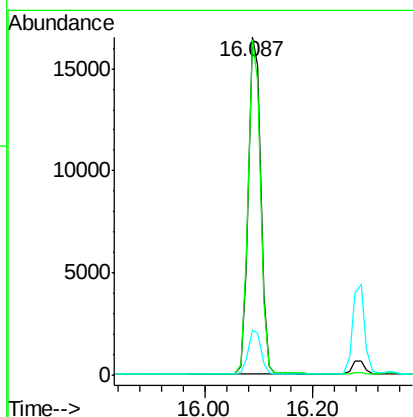
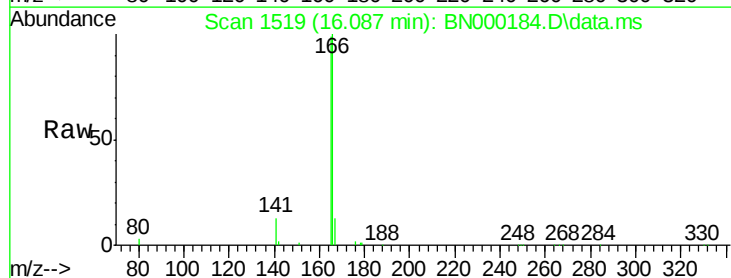
Tgt Ion:166 Resp: 26628

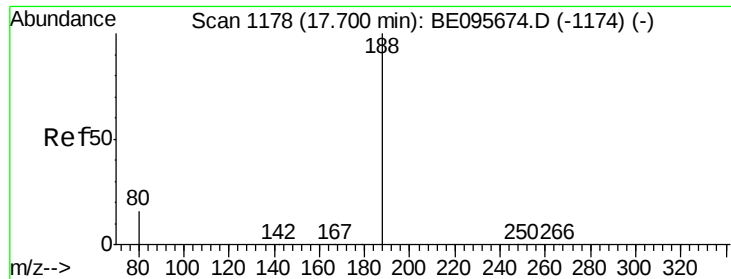
Ion Ratio Lower Upper

166 100

165 97.9 77.8 116.6

167 13.4 42.4 63.6#





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.777 min Scan# 1678

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

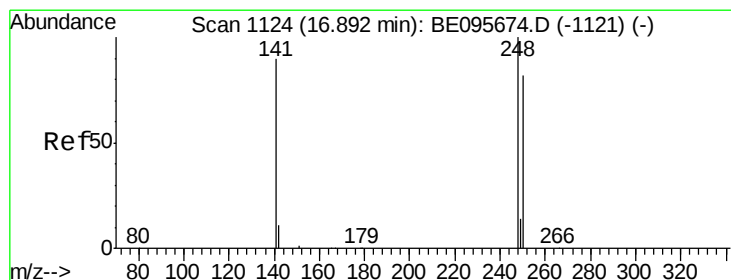
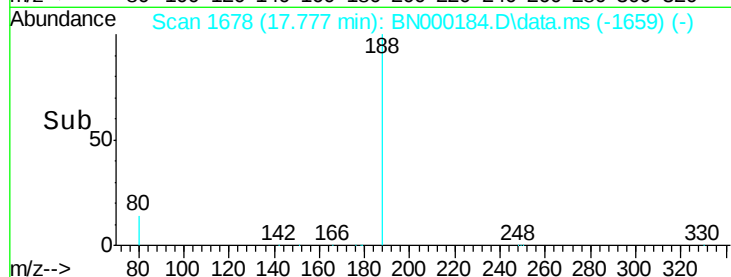
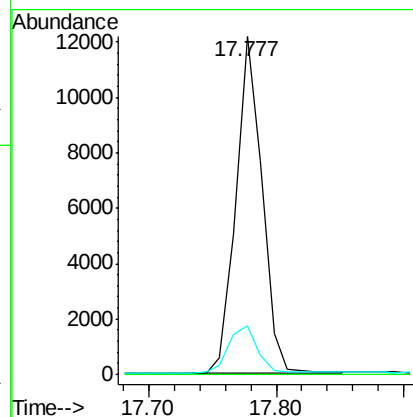
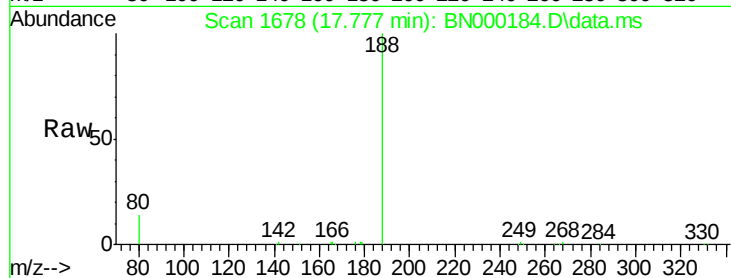
Tot Ion:188 Resp: 17363

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 14.4 3.6 5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.70 ng

RT: 16.969 min Scan# 1602

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

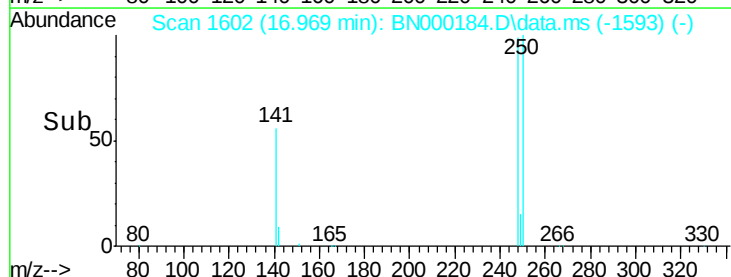
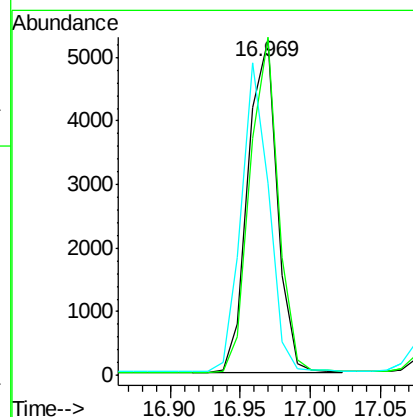
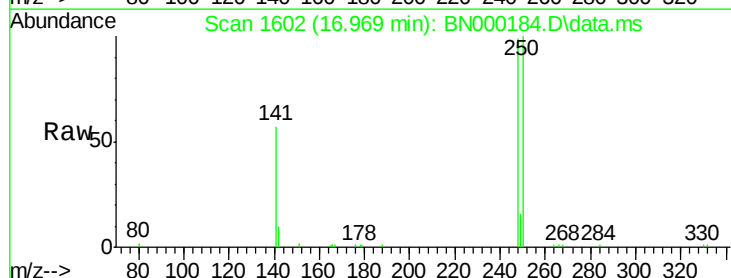
Tgt Ion:248 Resp: 7596

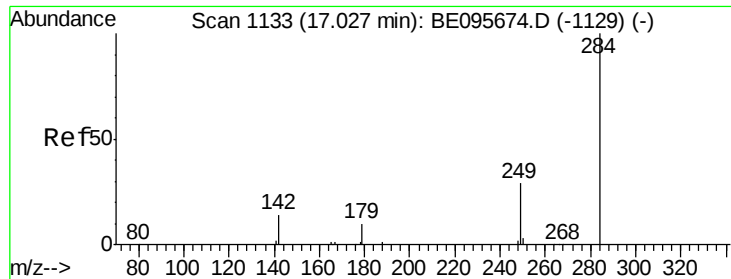
Ion Ratio Lower Upper

248 100

250 100.7 62.7 94.1#

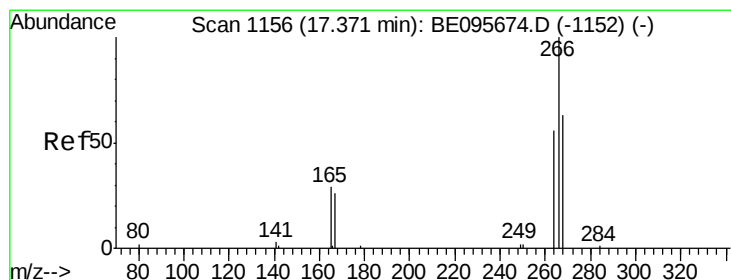
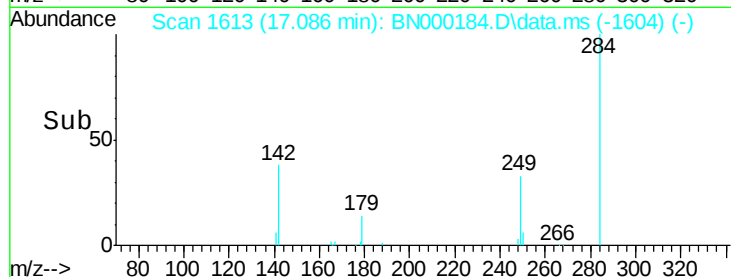
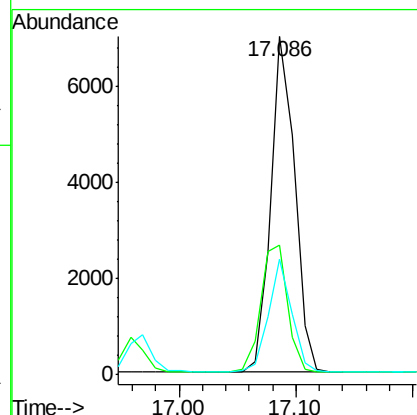
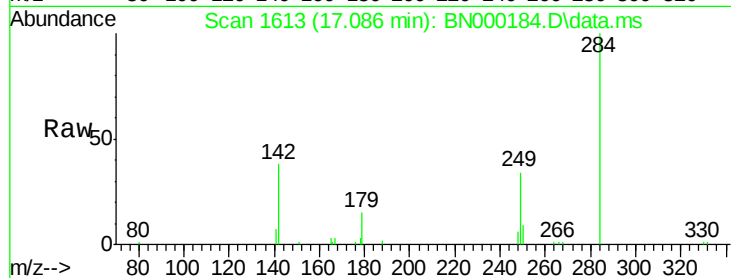
141 57.2 48.2 72.2





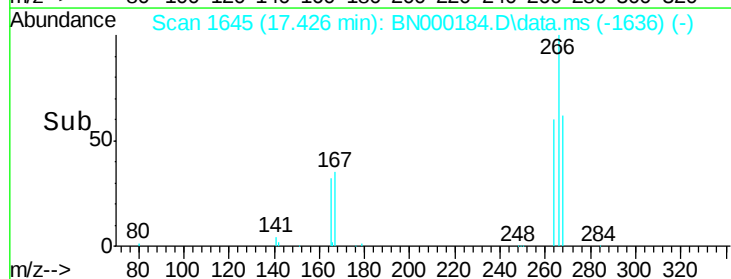
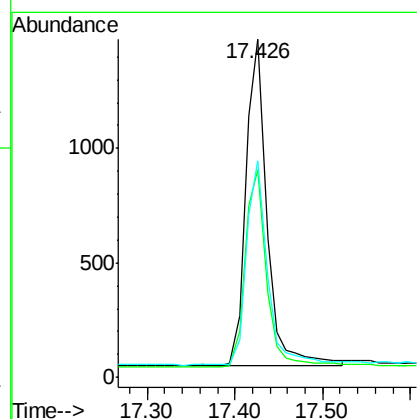
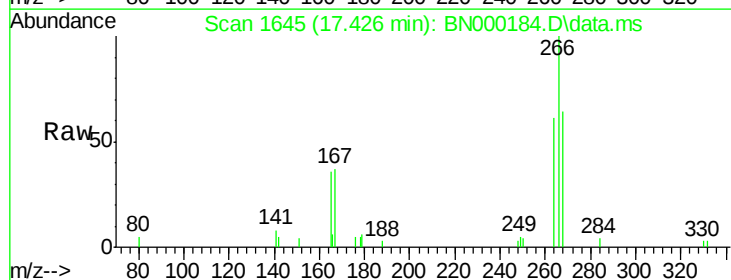
#21
Hexachlorobenzene
Concen: 0.89 ng
RT: 17.086 min Scan# 1613
Delta R.T. 0.001 min
Lab File: BN000184.D
Acq: 27 Feb 2018 10:59

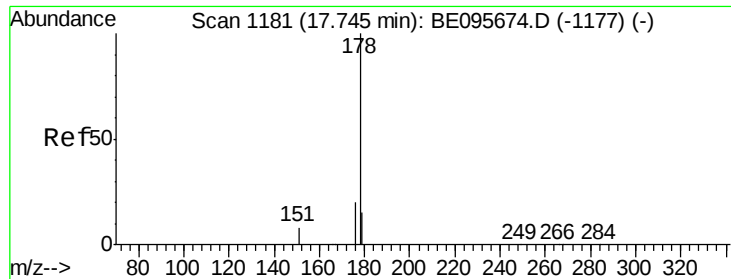
Tot Ion	Ratio	Lower	Upper
284	100		
142	42.3	22.1	33.1#
249	32.0	34.8	52.2#



#22
Pentachlorophenol
Concen: 0.90 ng
RT: 17.426 min Scan# 1645
Delta R.T. 0.001 min
Lab File: BN000184.D
Acq: 27 Feb 2018 10:59

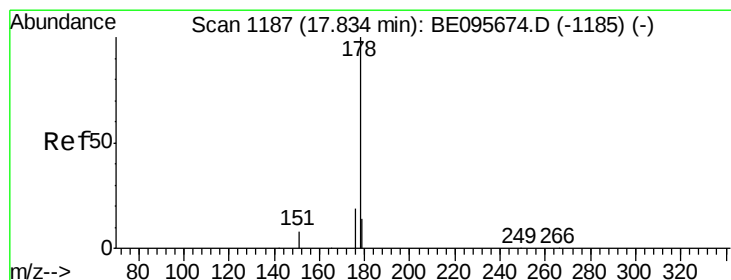
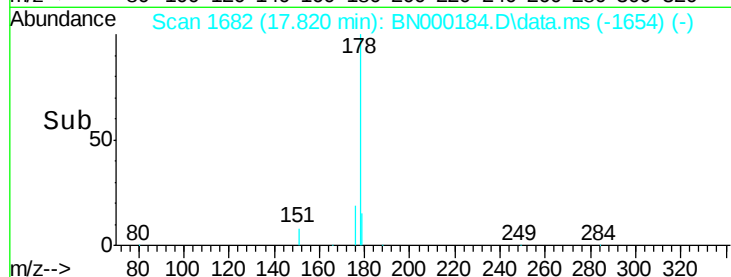
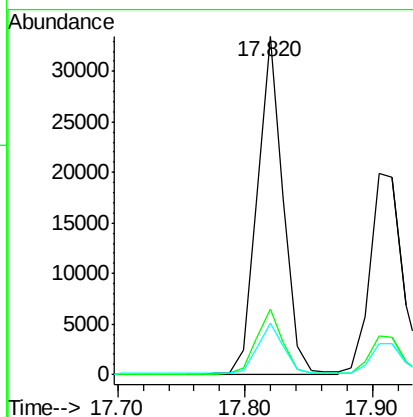
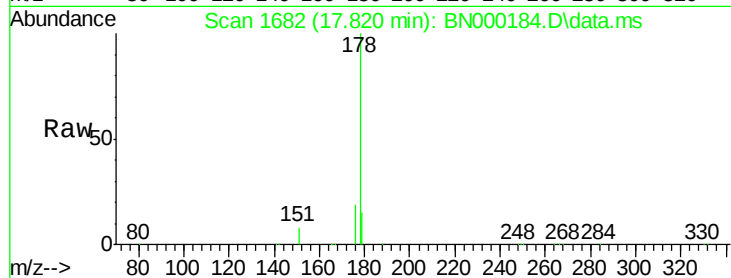
Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.4	72.5	108.7#
268	64.2	73.8	110.6#





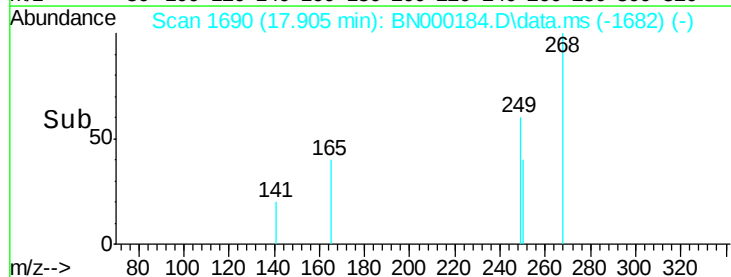
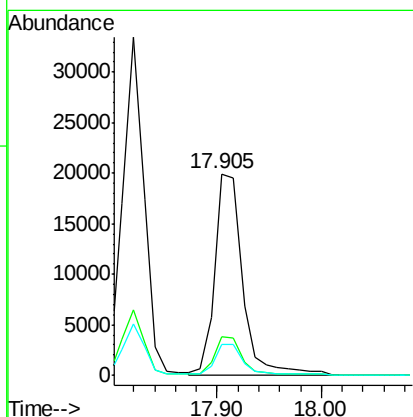
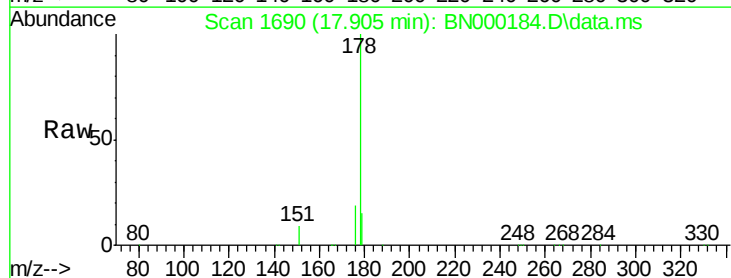
#23
Phenanthrene
Concen: 0.87 ng
RT: 17.820 min Scan# 1682
Delta R.T. 0.001 min
Lab File: BN000184.D
Acq: 27 Feb 2018 10:59

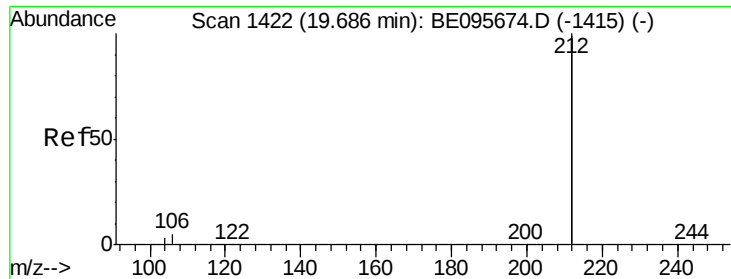
Tot Ion:178 Resp: 46946
Ion Ratio Lower Upper
178 100
176 19.4 15.1 22.7
179 15.3 11.8 17.6



#24
Anthracene
Concen: 0.71 ng
RT: 17.905 min Scan# 1690
Delta R.T. -0.010 min
Lab File: BN000184.D
Acq: 27 Feb 2018 10:59

Tgt Ion:178 Resp: 35588
Ion Ratio Lower Upper
178 100
176 19.8 12.8 19.2#
179 16.8 13.0 19.6





#25

Fluoranthene-d10

Concen: 0.16 ng

RT: 19.768 min Scan# 2054

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

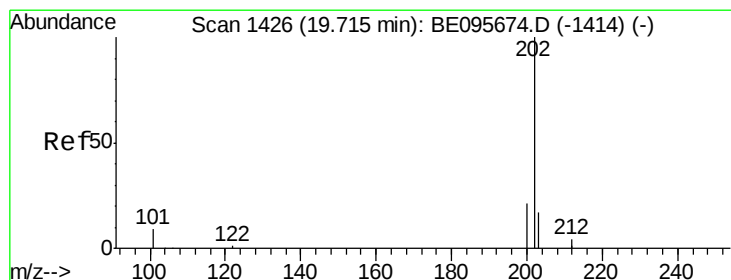
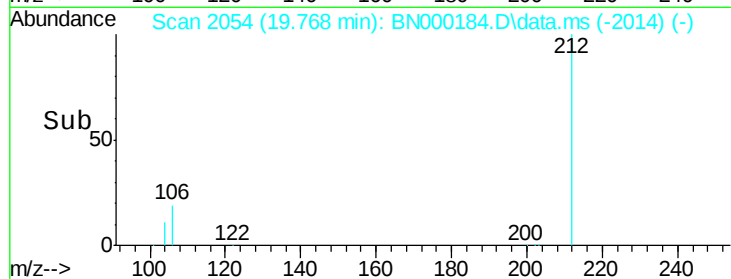
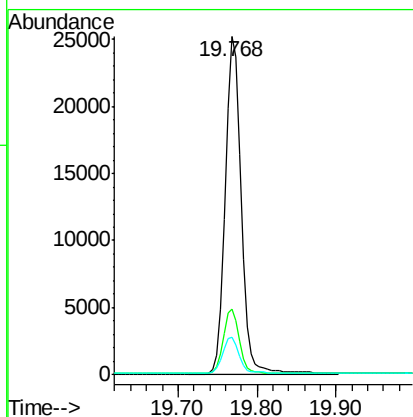
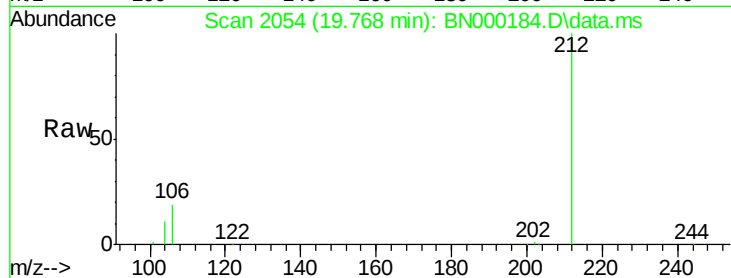
Tot Ion:212 Resp: 36116

Ion Ratio Lower Upper

212 100

106 19.4 2.8 4.2#

104 10.9 1.6 2.4#



#26

Fluoranthene

Concen: 0.75 ng

RT: 19.798 min Scan# 2060

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

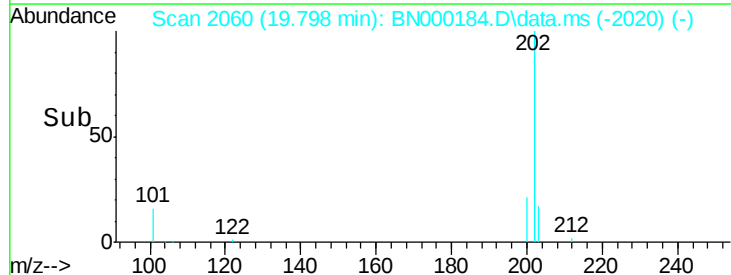
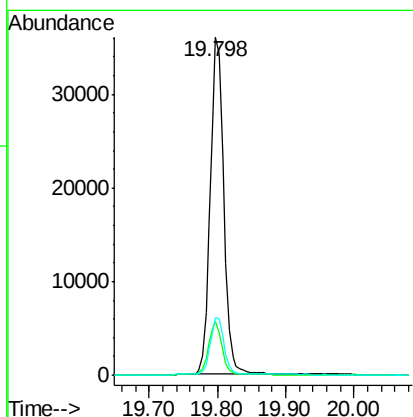
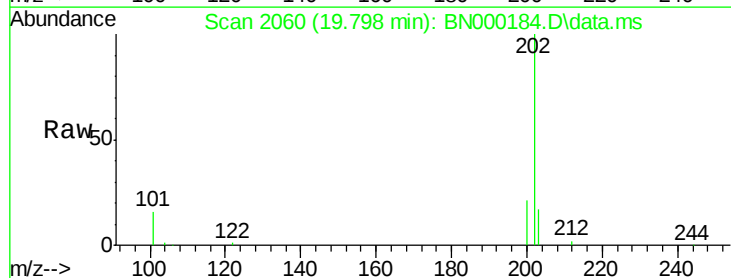
Tgt Ion:202 Resp: 50063

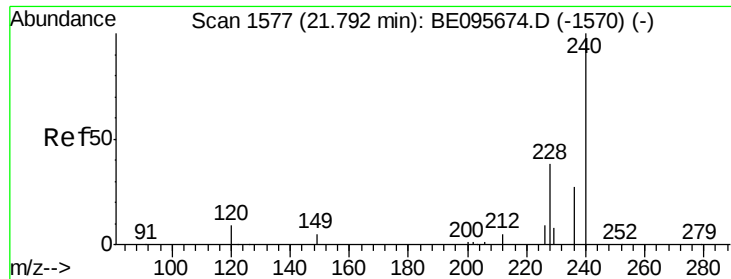
Ion Ratio Lower Upper

202 100

101 15.6 9.8 14.8#

203 17.1 13.7 20.5





#27

Chrysene-d12

Concen: 0.40 ng

RT: 21.897 min Scan# 2280

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

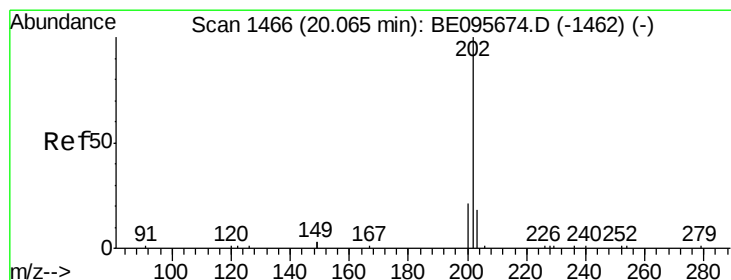
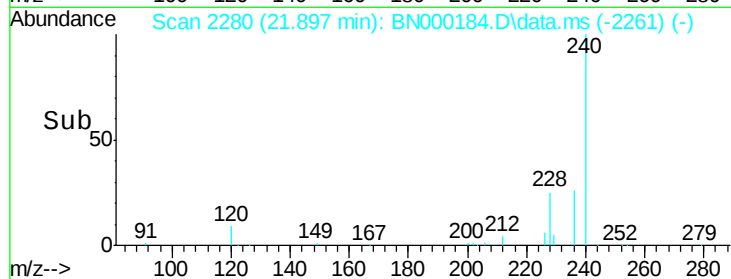
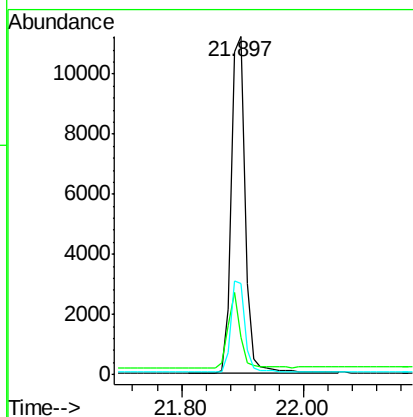
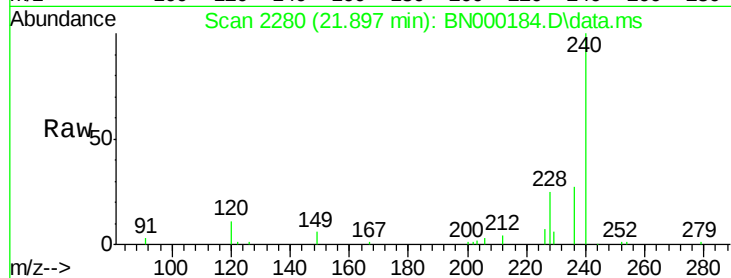
Tot Ion:240 Resp: 18165

Ion Ratio Lower Upper

240 100

120 11.0 5.5 8.3#

236 27.0 20.7 31.1



#28

Pyrene

Concen: 0.69 ng

RT: 20.155 min Scan# 2116

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

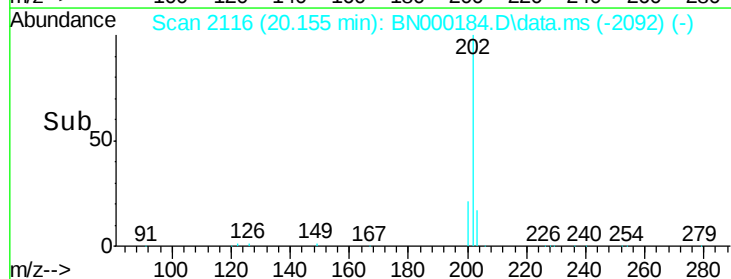
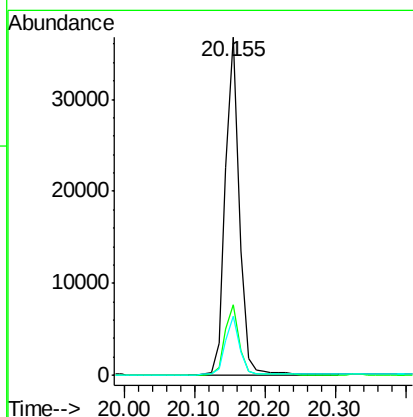
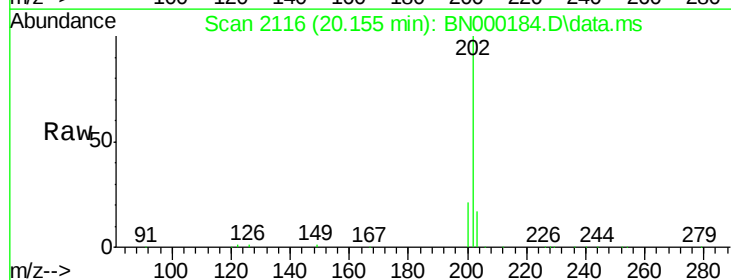
Tgt Ion:202 Resp: 51032

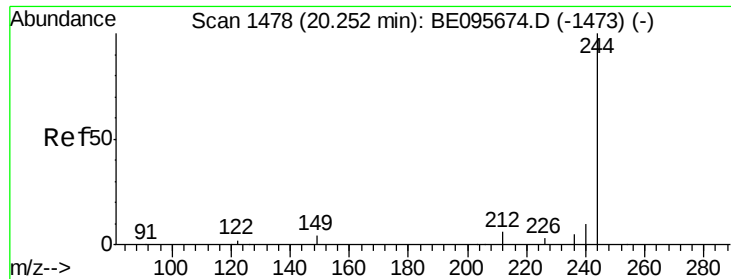
Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

203 17.4 13.8 20.8





#29

Terphenyl-d14

Concen: 0.66 ng

RT: 20.336 min Scan# 2133

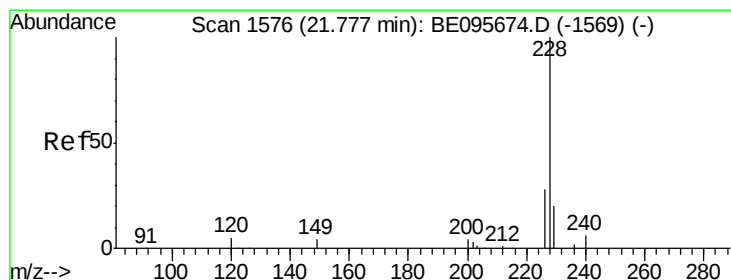
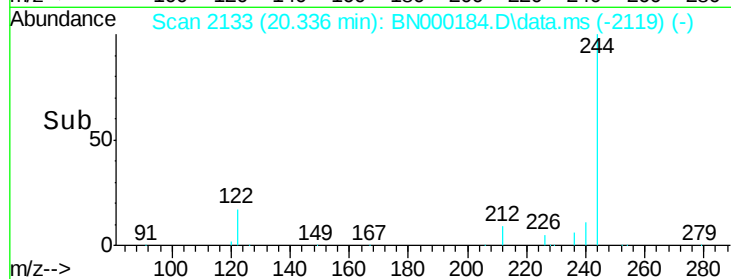
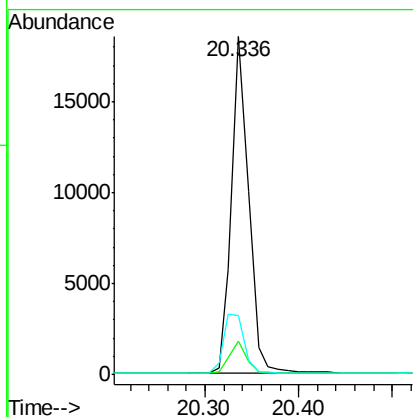
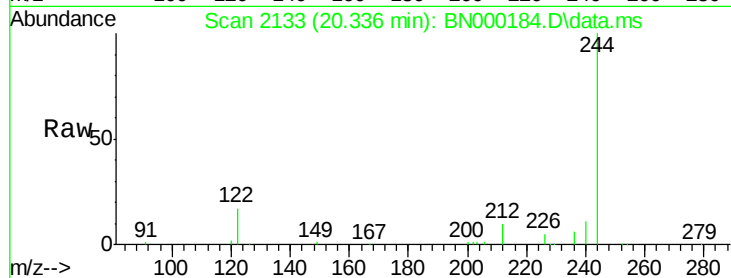
Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

Tot Ion:244 Resp: 23803

Ion	Ratio	Lower	Upper
244	100		
212	9.7	25.4	38.0#
122	17.5	8.1	12.1#



#30

Benzo(a)anthracene

Concen: 0.73 ng

RT: 21.876 min Scan# 2278

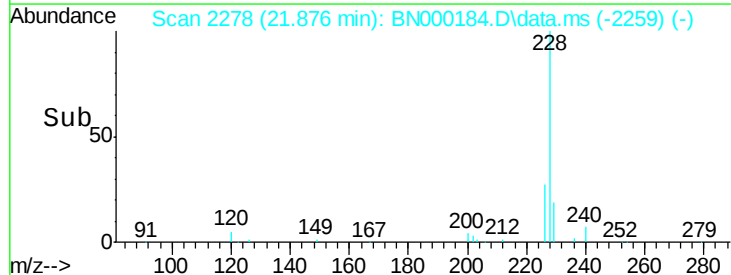
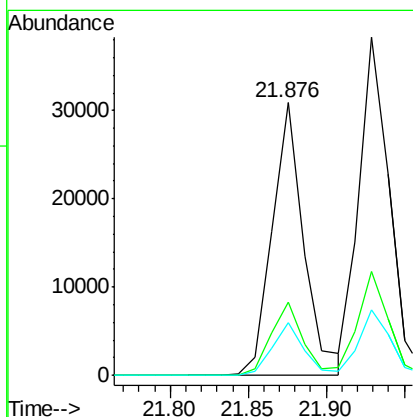
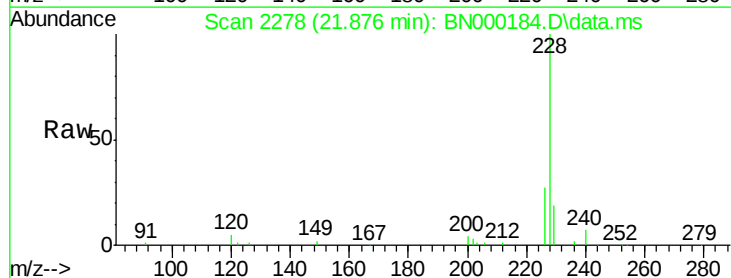
Delta R.T. 0.001 min

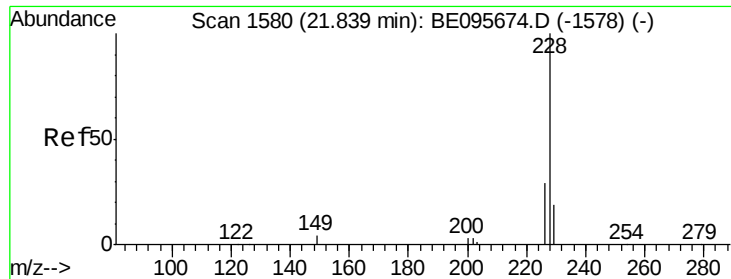
Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

Tgt Ion:228 Resp: 43137

Ion	Ratio	Lower	Upper
228	100		
226	27.1	24.0	36.0
229	19.3	16.0	24.0





#31

Chrysene

Concen: 0.88 ng

RT: 21.929 min Scan# 2283

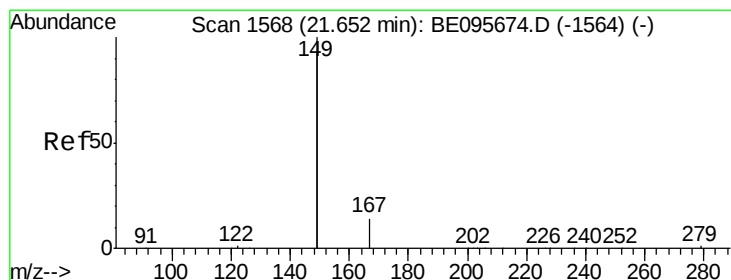
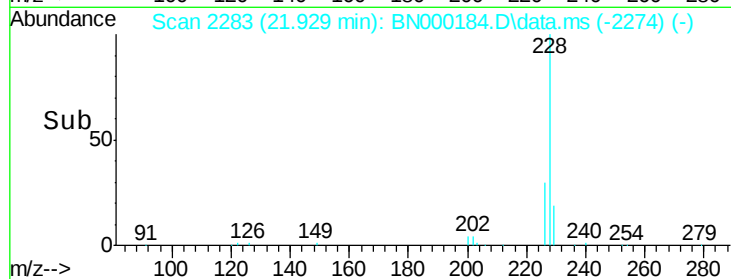
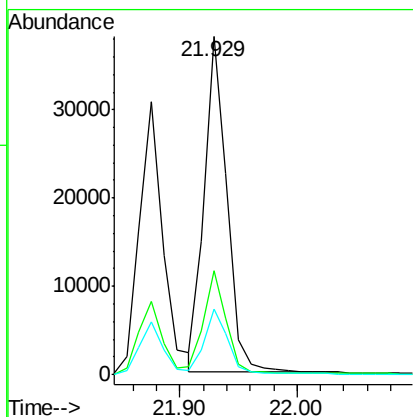
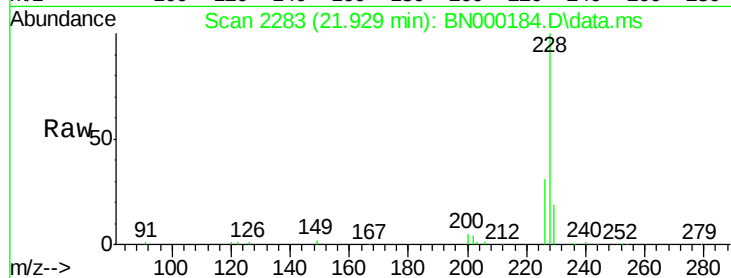
Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

Tot Ion:228 Resp: 51826

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.0	36.0
229	19.4	16.0	24.0



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.13 ng

RT: 21.759 min Scan# 2267

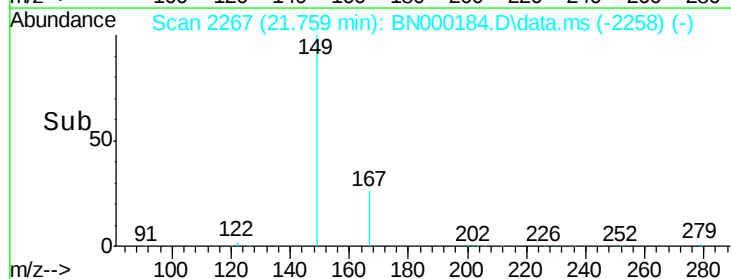
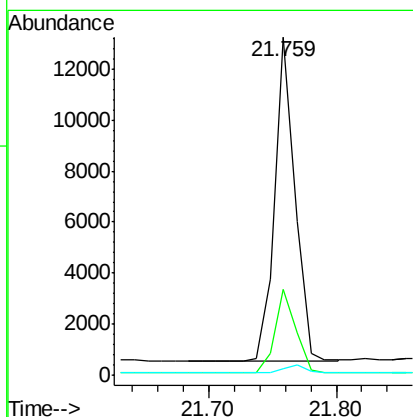
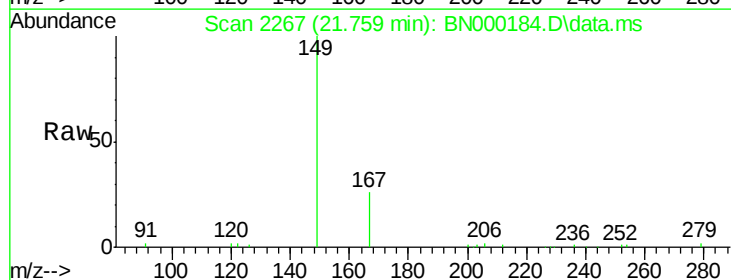
Delta R.T. 0.001 min

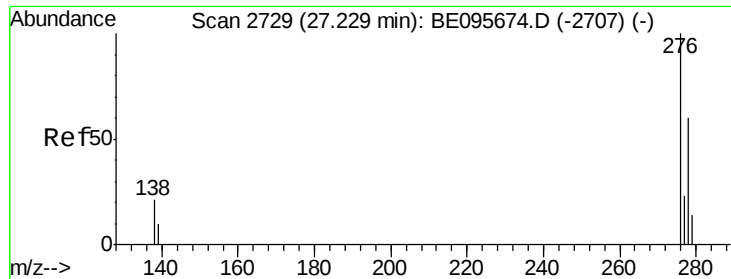
Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

Tgt Ion:149 Resp: 13940

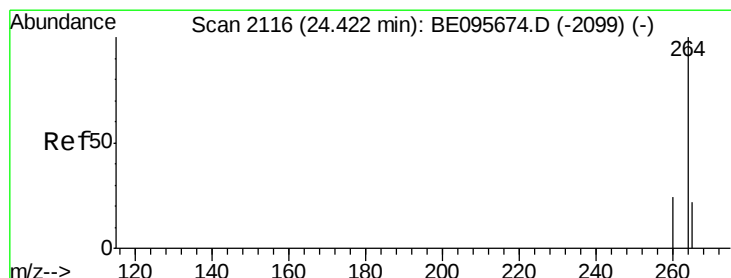
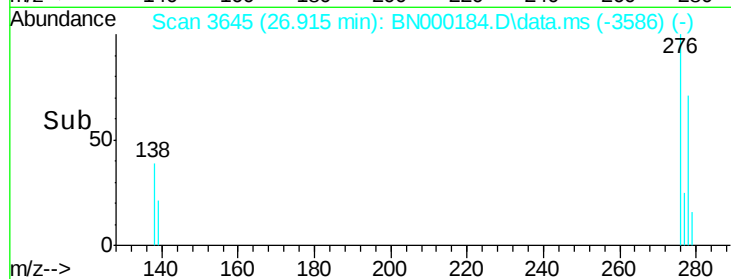
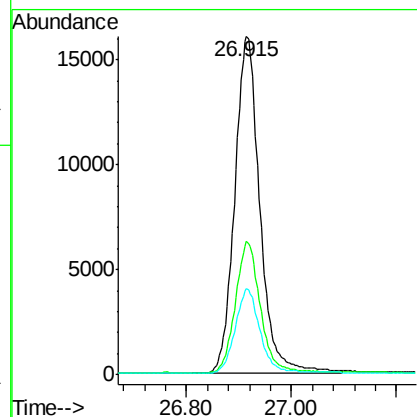
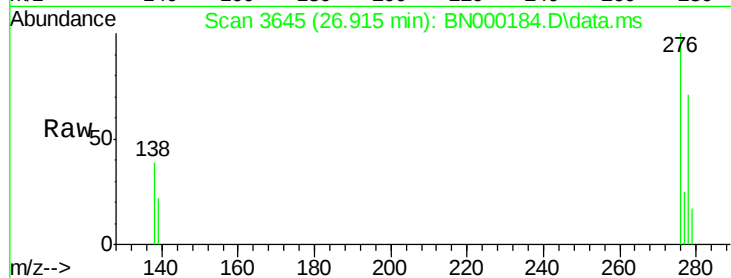
Ion	Ratio	Lower	Upper
149	100		
167	26.5	5.4	8.0#
279	2.6	0.7	1.1#





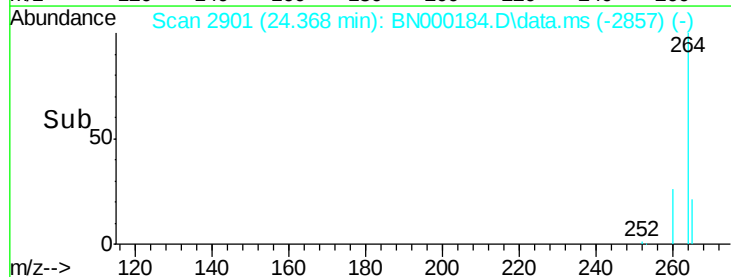
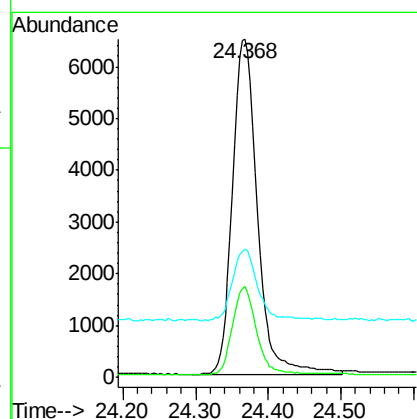
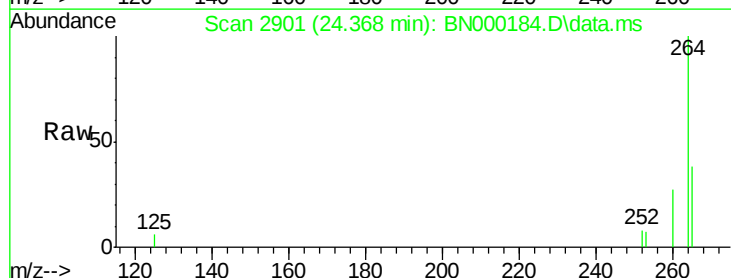
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.94 ng
 RT: 26.915 min Scan# 3645
 Delta R.T. 0.001 min
 Lab File: BN000184.D
 Acq: 27 Feb 2018 10:59

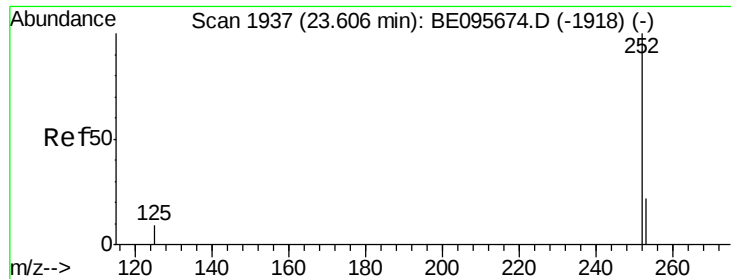
Tot Ion: 276 Resp: 53677
 Ion Ratio Lower Upper
 276 100
 138 38.8 22.5 33.7#
 277 24.8 19.9 29.9



#34
 Perylene-d12
 Concen: 0.40 ng
 RT: 24.368 min Scan# 2901
 Delta R.T. 0.001 min
 Lab File: BN000184.D
 Acq: 27 Feb 2018 10:59

Tgt Ion: 264 Resp: 15321
 Ion Ratio Lower Upper
 264 100
 260 26.7 20.5 30.7
 265 37.9 22.8 34.2#





#35

Benzo(b)fluoranthene

Concen: 0.98 ng

RT: 23.611 min Scan# 2680

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

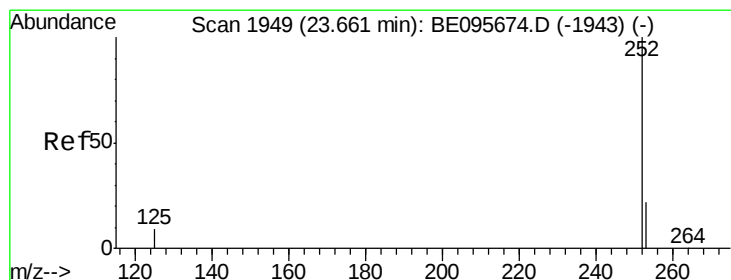
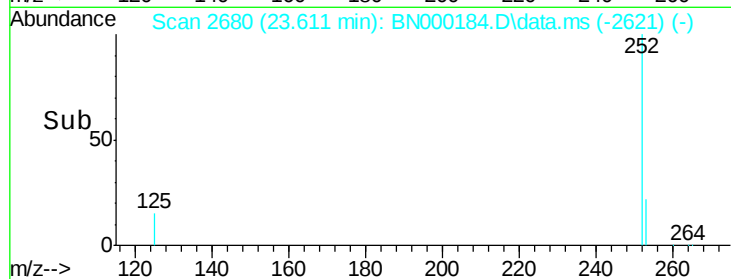
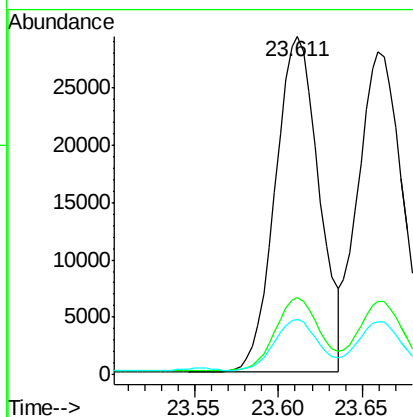
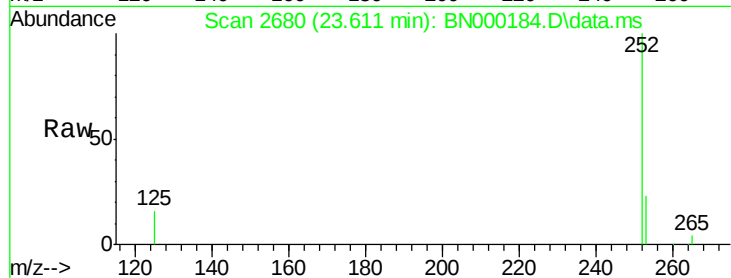
Tot Ion:252 Resp: 53271

Ion Ratio Lower Upper

252 100

253 22.6 20.0 30.0

125 16.3 16.0 24.0



#36

Benzo(k)fluoranthene

Concen: 1.00 ng

RT: 23.659 min Scan# 2694

Delta R.T. 0.001 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

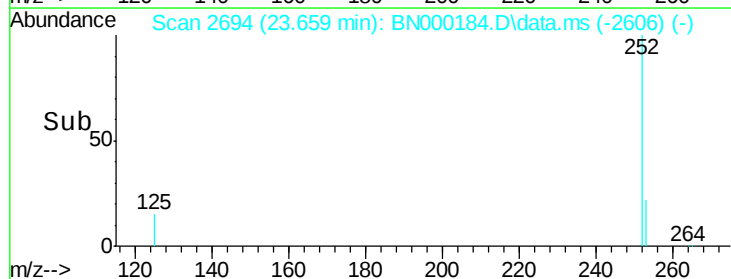
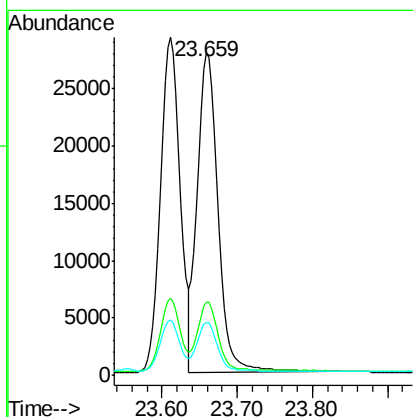
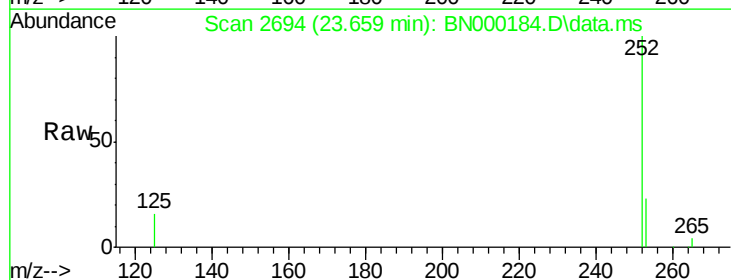
Tgt Ion:252 Resp: 54131

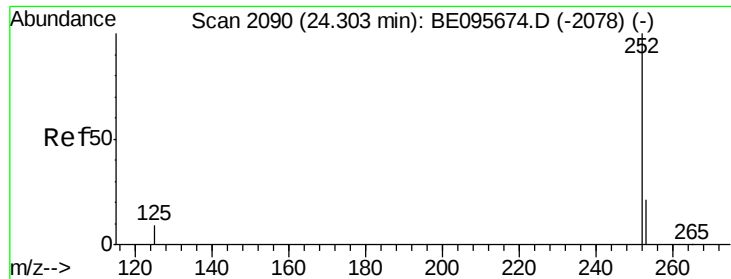
Ion Ratio Lower Upper

252 100

253 22.7 16.0 24.0

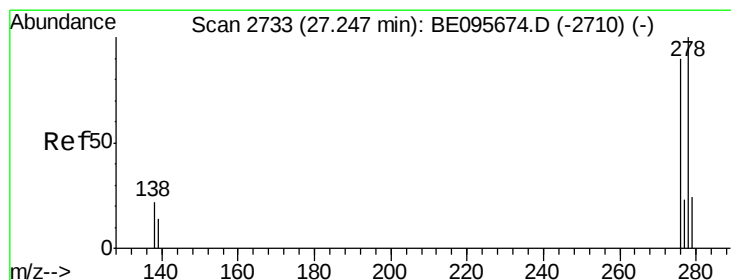
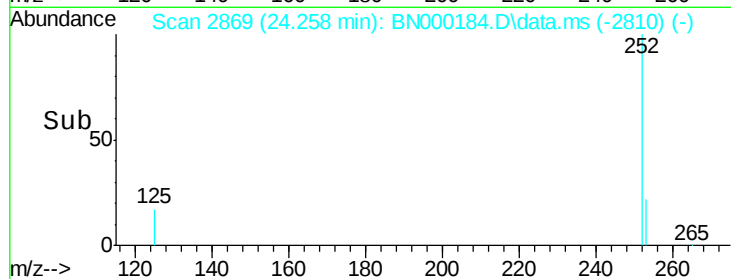
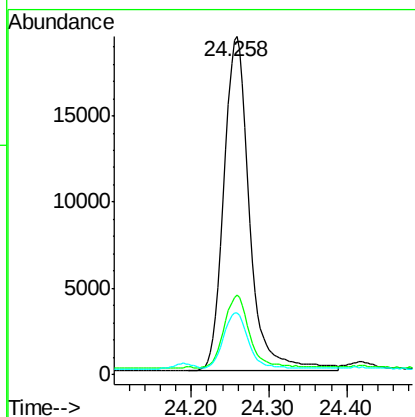
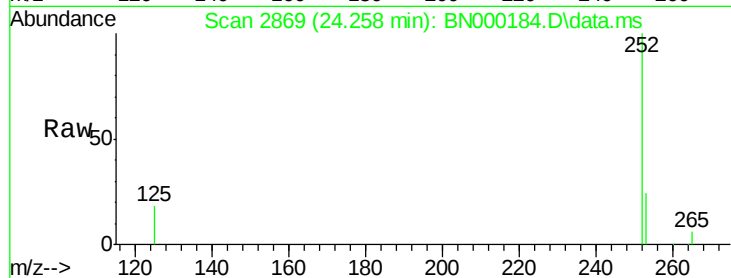
125 16.4 8.0 12.0#





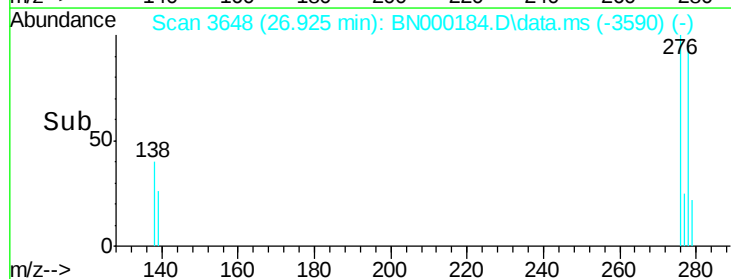
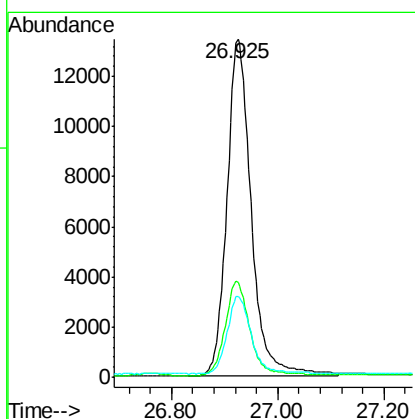
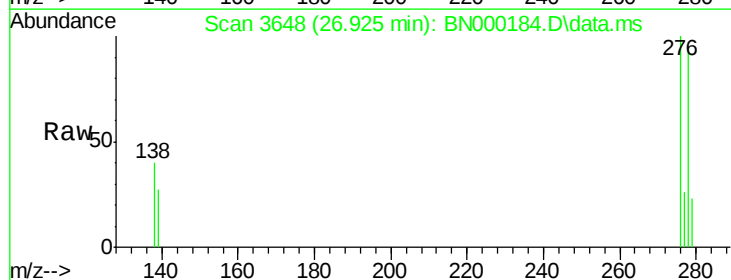
#37
Benzo(a)pyrene
Concen: 0.90 ng
RT: 24.258 min Scan# 2869
Delta R.T. 0.001 min
Lab File: BN000184.D
Acq: 27 Feb 2018 10:59

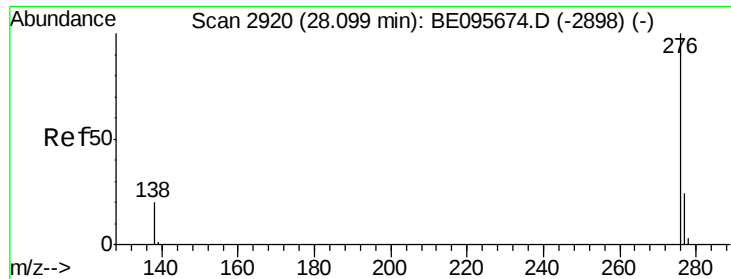
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	16.0	24.0
125	18.2	12.0	18.0



#38
Dibenzo(a,h)anthracene
Concen: 0.98 ng
RT: 26.925 min Scan# 3648
Delta R.T. -0.003 min
Lab File: BN000184.D
Acq: 27 Feb 2018 10:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	28.3	16.0	24.0
279	23.9	20.0	30.0





#39

Benzo(a,h,i)perylene

Concen: 1.04 ng

RT: 27.698 min Scan# 3874

Delta R.T. -0.003 min

Lab File: BN000184.D

Acq: 27 Feb 2018 10:59

Tot Ion: 276 Resp: 48542

Ion Ratio Lower Upper

276 100

277 23.8 16.0 24.0

138 34.0 20.0 30.0#

