

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060217\
 Data File : BF095645.D
 Acq On : 2 Jun 2017 21:09
 Operator : SJ/MA
 Sample : I3441-11 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 03 01:33:53 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 01 18:51:16 2017
 Response via : Initial Calibration

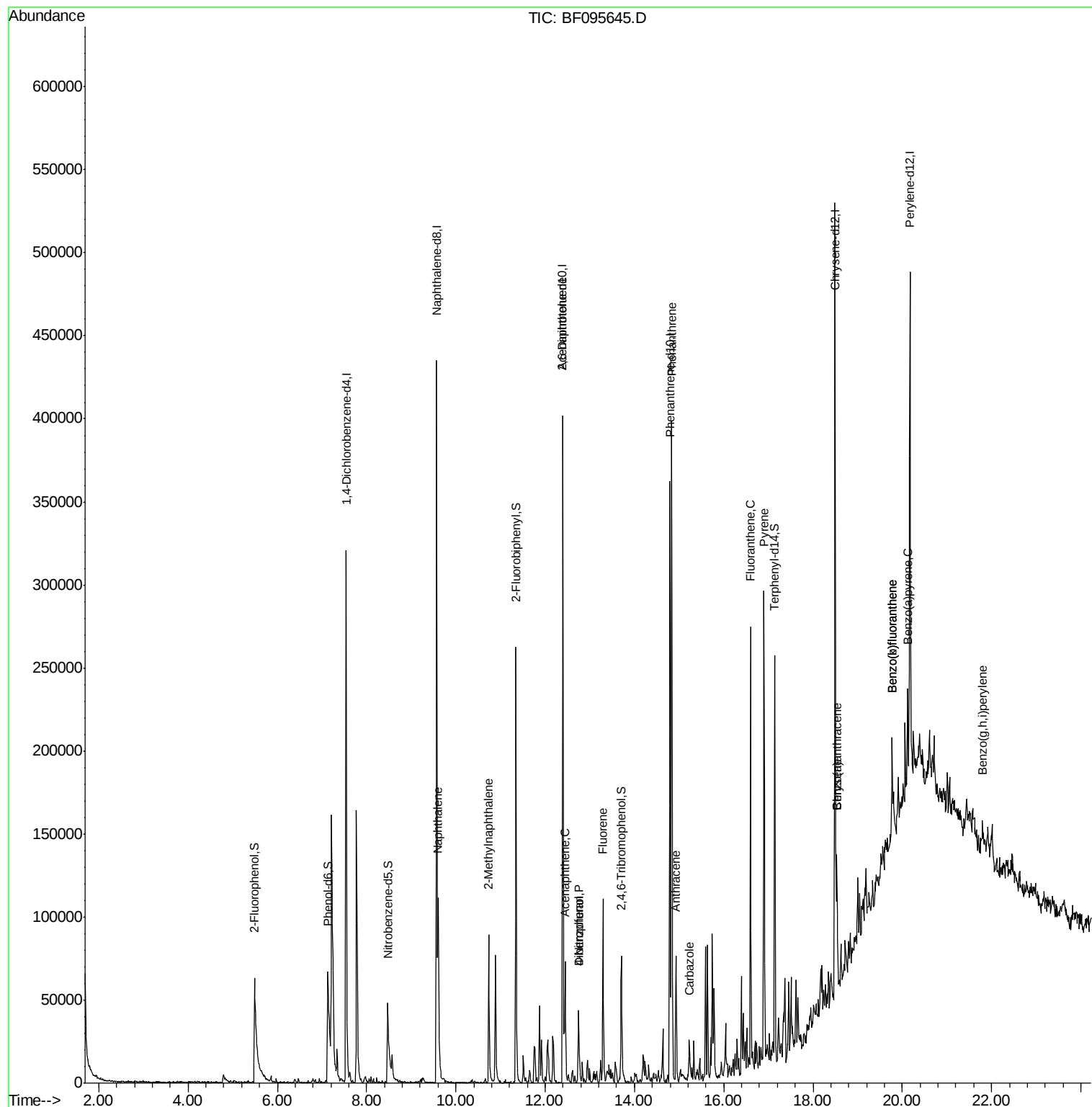
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.54	152	81365	20.00	ng	0.00
21) Naphthalene-d8	9.57	136	307254	20.00	ng	0.00
38) Acenaphthene-d10	12.39	164	114952	20.00	ng	0.00
63) Phenanthrene-d10	14.80	188	176961	20.00	ng	0.00
75) Chrysene-d12	18.49	240	174434	20.00	ng	0.00
86) Perylene-d12	20.17	264	129583	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	81009	16.60	ng	0.04
7) Phenol-d6	7.13	99	107752	18.40	ng	0.03
23) Nitrobenzene-d5	8.47	82	56890	11.68	ng	0.00
41) 2,4,6-Tribromophenol	13.71	330	14480	15.38	ng	0.01
44) 2-Fluorobiphenyl	11.35	172	123085	15.41	ng	0.00
78) Terphenyl-d14	17.14	244	85908	10.85	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	9.60	128	88377	5.72	ng	97
37) 2-Methylnaphthalene	10.73	142	44232	4.36	ng	94
50) 2,6-Dinitrotoluene	12.39	165	14459	7.51	ng	# 31
51) Acenaphthene	12.45	154	23412	3.20	ng	98
54) Dibenzofuran	12.75	168	29181	2.88	ng	97
55) 4-Nitrophenol	12.75	139	10778	8.68	ng	# 25
57) Fluorene	13.29	166	46690	5.31	ng	97
70) Phenanthrene	14.83	178	224509	22.08	ng	98
71) Anthracene	14.93	178	50416	4.85	ng	95
72) Carbazole	15.23	167	20362	2.15	ng	97
74) Fluoranthene	16.60	202	134719	12.92	ng	97
77) Pvrene	16.90	202	132769	10.18	ng	98
80) Benzo(a)anthracene	18.53	228	45662	4.50	ng	98
82) Chrysene	18.53	228	45662	4.65	ng	97
87) Benzo(b)fluoranthene	19.77	252	42037	5.25	ng	# 90
88) Benzo(k)fluoranthene	19.77	252	42037	5.44	ng	# 94
89) Benzo(a)pvrene	20.12	252	25443	3.44	ng	# 87
91) Benzo(g,h,i)perylene	21.79	276	14375	2.40	ng	# 89

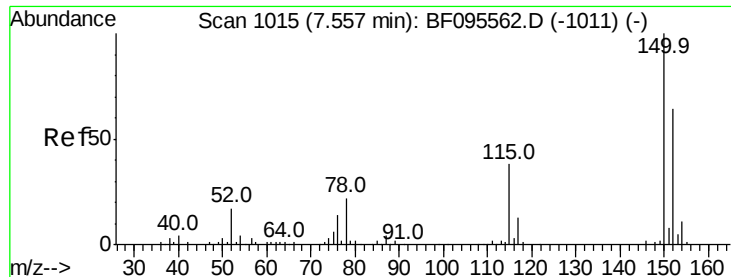
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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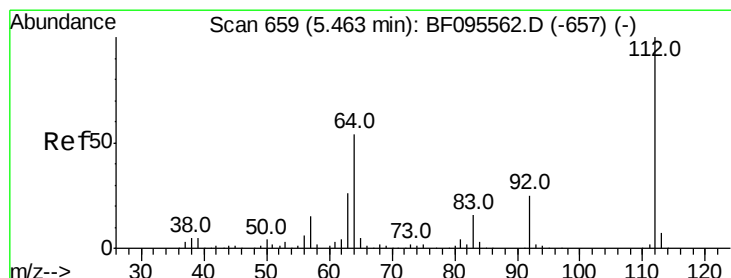
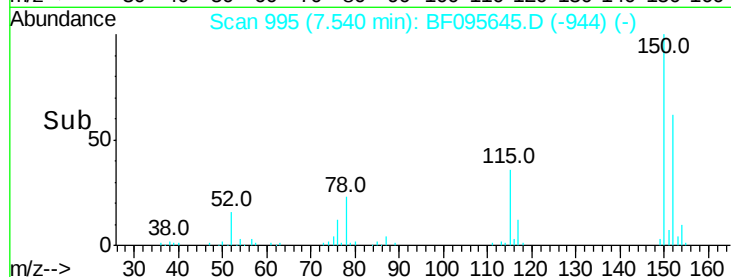
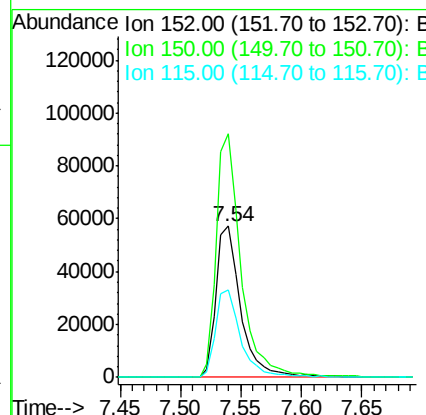
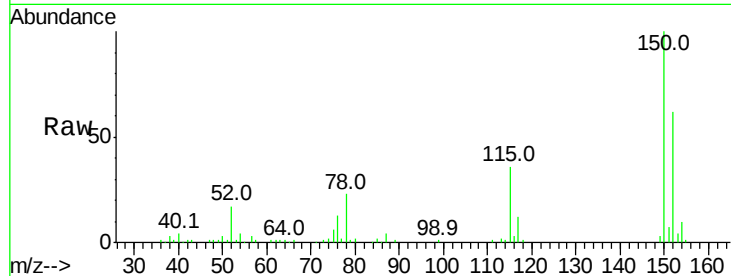




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.54 min Scan# 995
 Delta R.T. 0.00 min
 Lab File: BF095645.D
 Acq: 2 Jun 2017 21:09

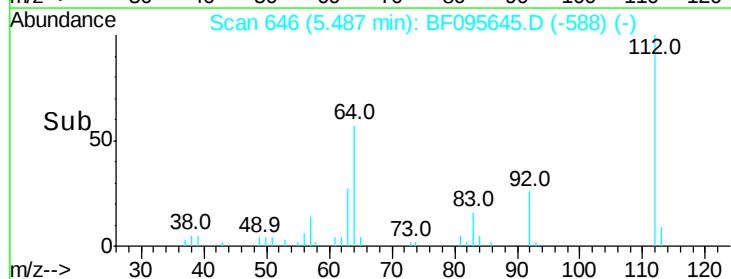
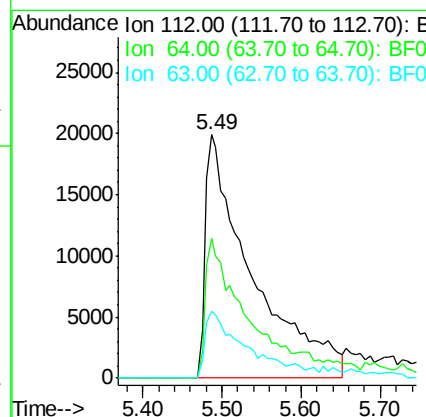
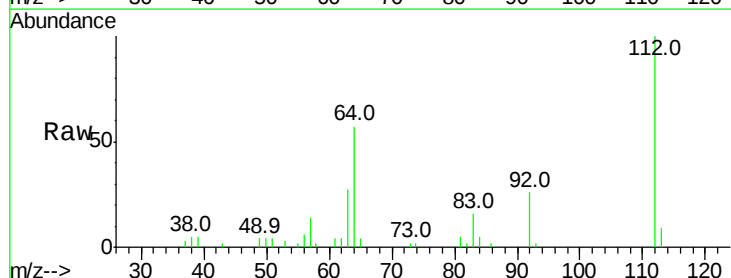
Instrument :
 BNA_F
 ClientSampleId :

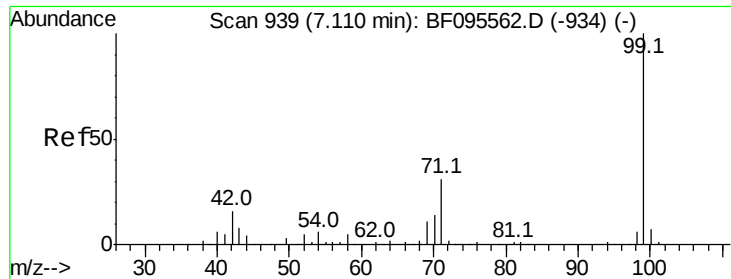
Tot Ion:152 Resp: 81365
 Ion Ratio Lower Upper
 152 100
 150 160.9 126.2 189.2
 115 57.6 52.2 78.2



#5
 2-Fluorophenol
 Concen: 16.60 ng
 RT: 5.49 min Scan# 646
 Delta R.T. 0.04 min
 Lab File: BF095645.D
 Acq: 2 Jun 2017 21:09

Tgt Ion:112 Resp: 81009
 Ion Ratio Lower Upper
 112 100
 64 57.3 46.0 69.0
 63 27.4 23.4 35.0





#7

Phenol-d6

Concen: 18.40 ng

RT: 7.13 min Scan# 925

Delta R.T. 0.03 min

Lab File: BF095645.D

Acq: 2 Jun 2017 21:09

Instrument :

BNA_F

ClientSampleId :

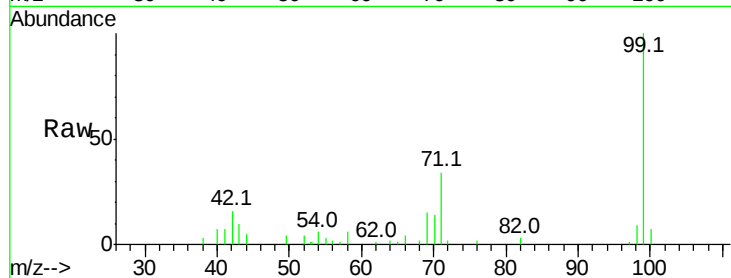
Tot Ion: 99 Resp: 107752

Ion Ratio Lower Upper

99 100

42 16.1 13.5 20.3

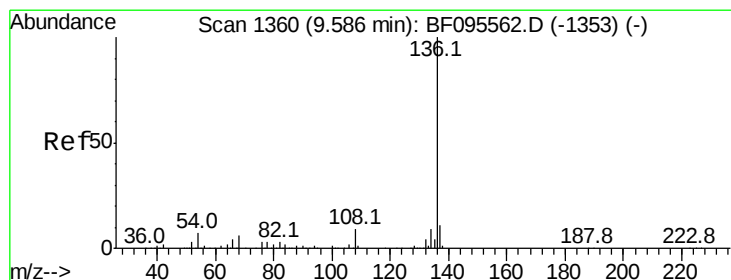
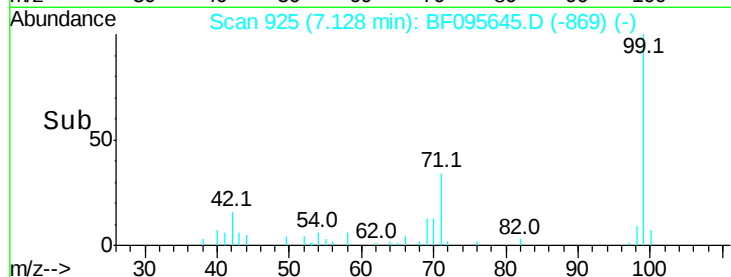
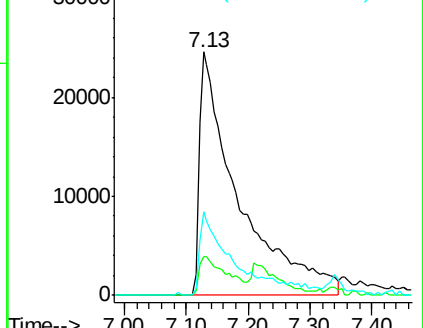
71 34.2 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.57 min Scan# 1340

Delta R.T. -0.01 min

Lab File: BF095645.D

Acq: 2 Jun 2017 21:09

Tgt Ion: 136 Resp: 307254

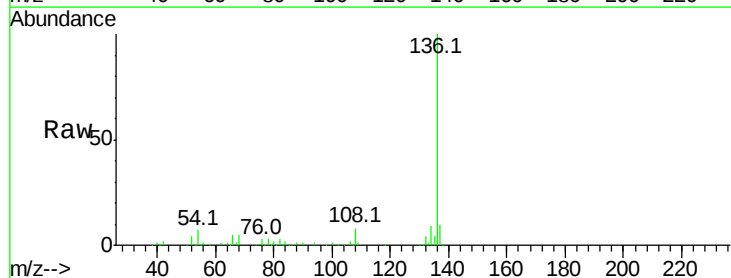
Ion Ratio Lower Upper

136 100

137 10.3 8.5 12.7

54 6.8 4.9 7.3

68 5.3 4.1 6.1

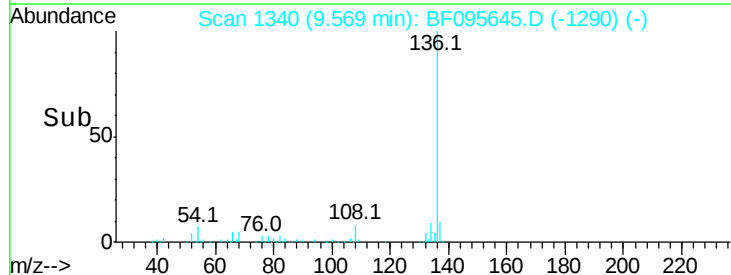
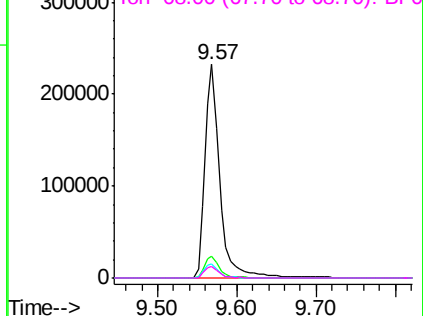


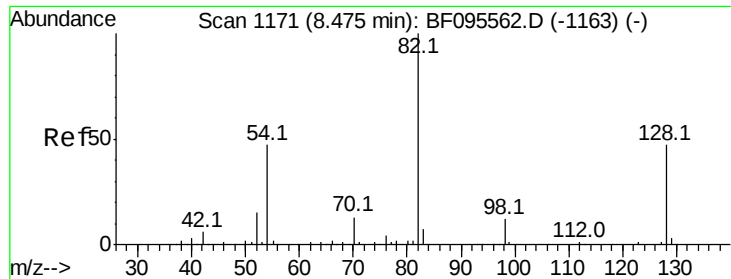
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

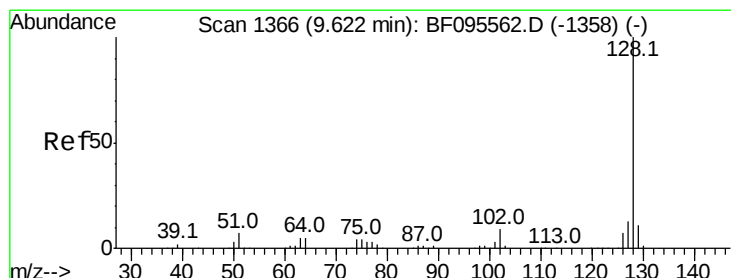
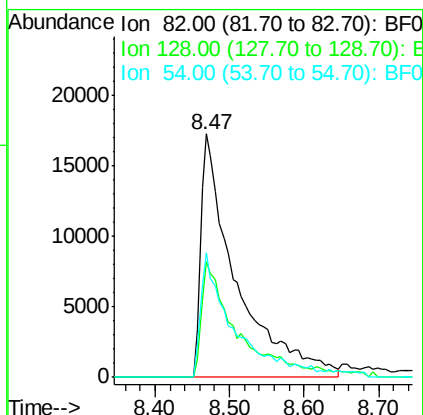
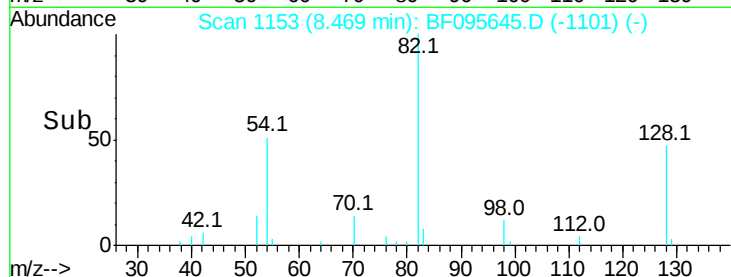
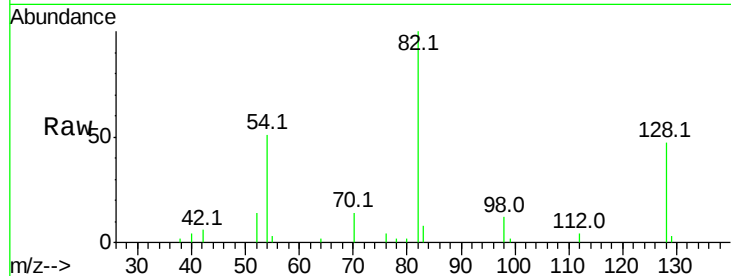




#23
Nitrobenzene-d5
Concen: 11.68 ng
RT: 8.47 min Scan# 1153
Delta R.T. 0.01 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

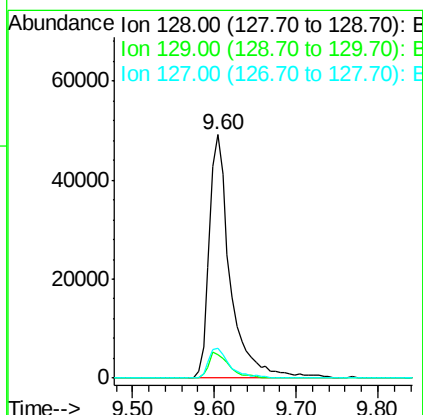
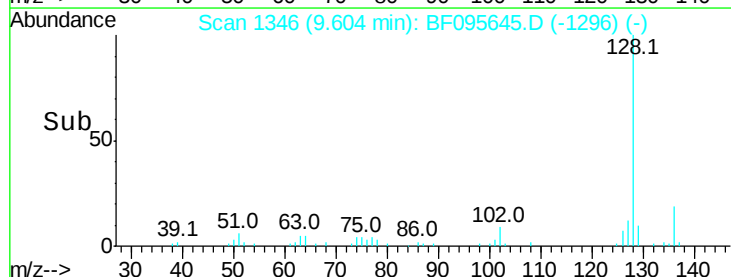
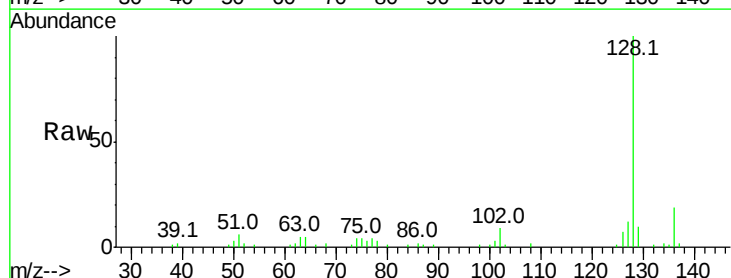
Instrument :
BNA_F
ClientSampleId :

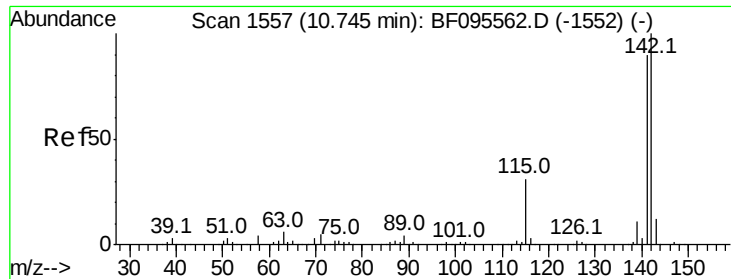
Tot Ion: 82 Resp: 56890
Ion Ratio Lower Upper
82 100
128 47.3 34.0 51.0
54 51.4 42.2 63.2



#31
Naphthalene
Concen: 5.72 ng
RT: 9.60 min Scan# 1346
Delta R.T. -0.01 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

Tgt Ion:128 Resp: 88377
Ion Ratio Lower Upper
128 100
129 9.8 9.0 13.6
127 12.4 10.8 16.2

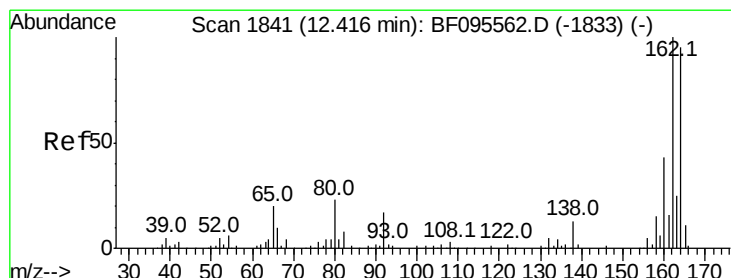
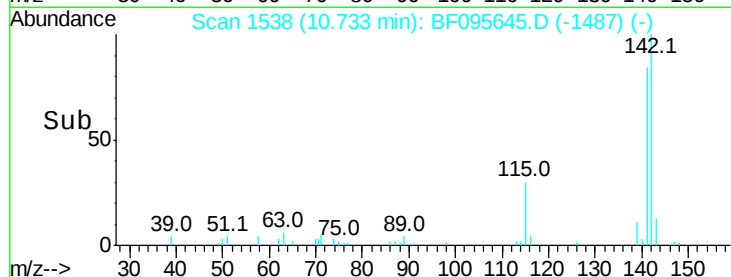
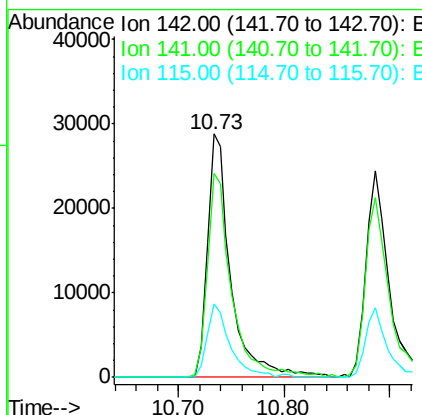
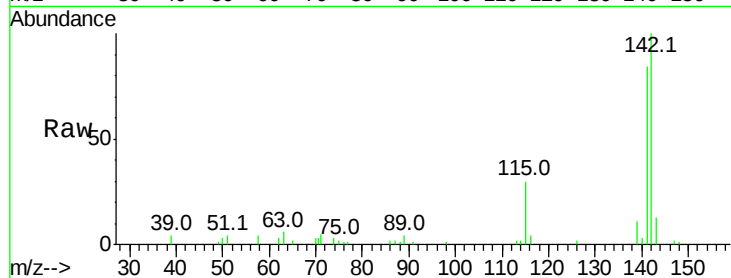




#37
 2-Methylnaphthalene
 Concen: 4.36 ng
 RT: 10.73 min Scan# 1538
 Delta R.T. 0.00 min
 Lab File: BF095645.D
 Acq: 2 Jun 2017 21:09

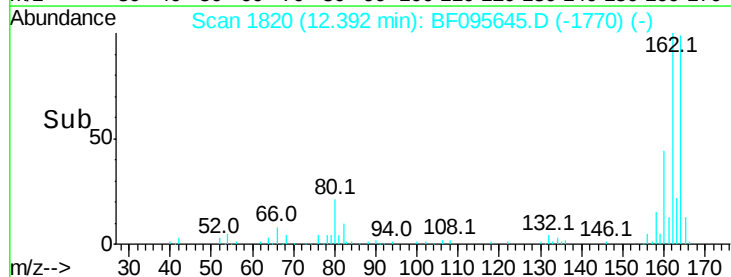
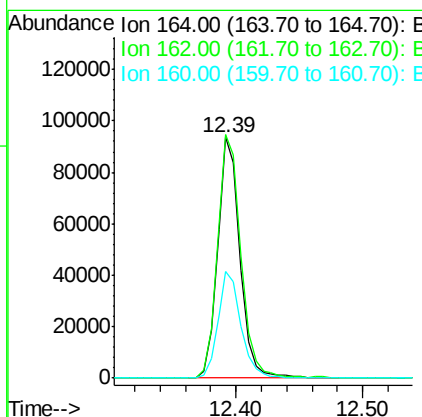
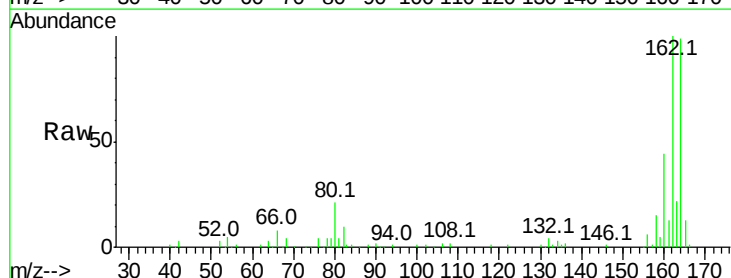
Instrument :
 BNA_F
 ClientSampleId :

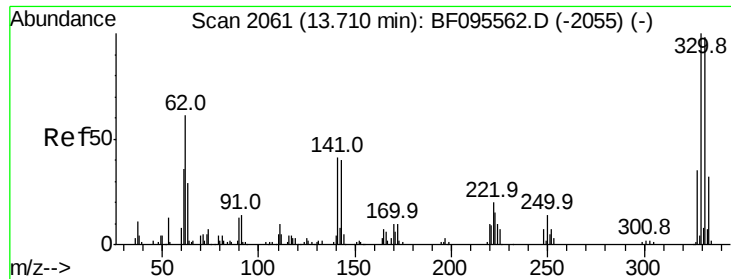
Tot Ion:142 Resp: 44232
 Ion Ratio Lower Upper
 142 100
 141 83.7 71.3 106.9
 115 30.3 27.1 40.7



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.39 min Scan# 1820
 Delta R.T. -0.01 min
 Lab File: BF095645.D
 Acq: 2 Jun 2017 21:09

Tgt Ion:164 Resp: 114952
 Ion Ratio Lower Upper
 164 100
 162 101.1 82.6 123.8
 160 44.2 36.2 54.2

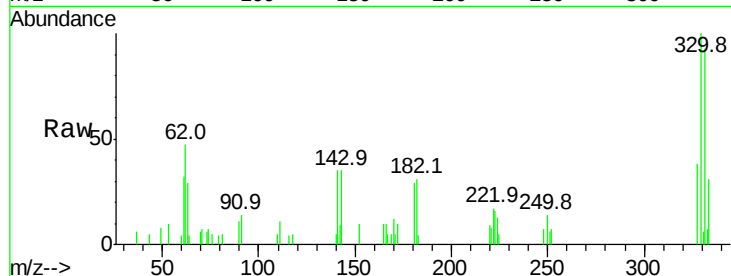




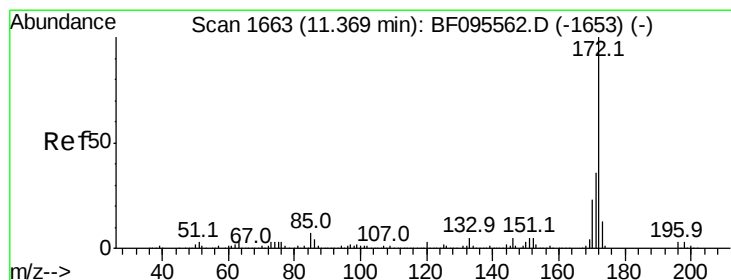
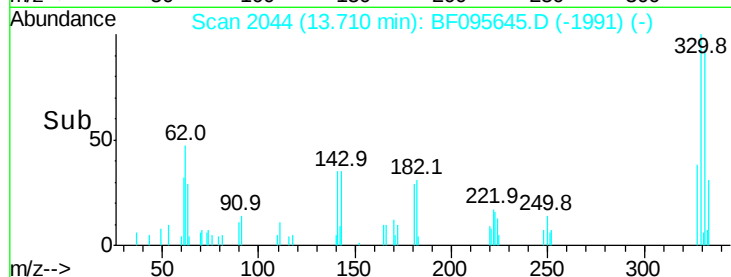
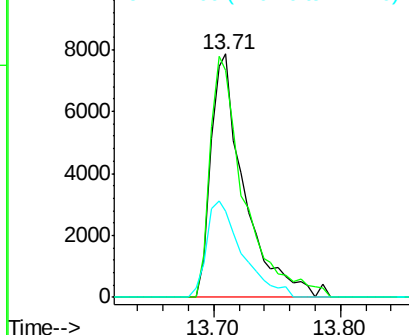
#41
 2,4,6-Tribromophenol
 Concen: 15.38 ng
 RT: 13.71 min Scan# 2044
 Delta R.T. 0.01 min
 Lab File: BF095645.D
 Acq: 2 Jun 2017 21:09

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 14480
 Ion Ratio Lower Upper
 330 100
 332 101.1 76.6 115.0
 141 41.9 31.4 47.2

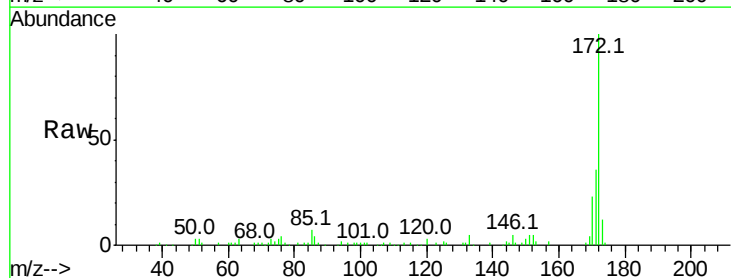


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

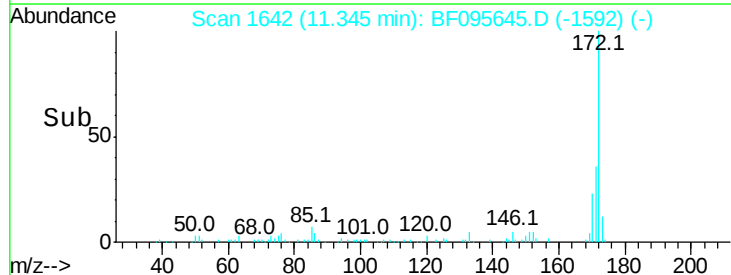
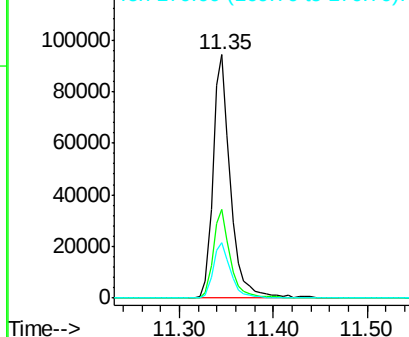


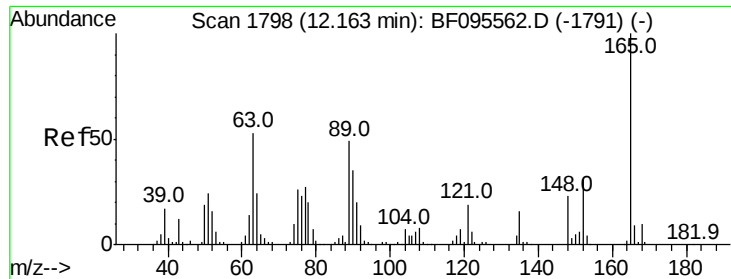
#44
 2-Fluorobiphenyl
 Concen: 15.41 ng
 RT: 11.35 min Scan# 1642
 Delta R.T. -0.01 min
 Lab File: BF095645.D
 Acq: 2 Jun 2017 21:09

Tgt Ion:172 Resp: 123085
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.6 44.4
 170 22.8 19.8 29.8



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

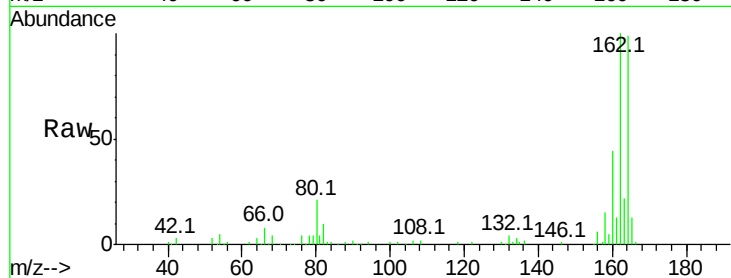




#50
2,6-Dinitrotoluene
Concen: 7.51 ng
RT: 12.39 min Scan# 1820
Delta R.T. 0.24 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

Instrument :
BNA_F
ClientSampleId :

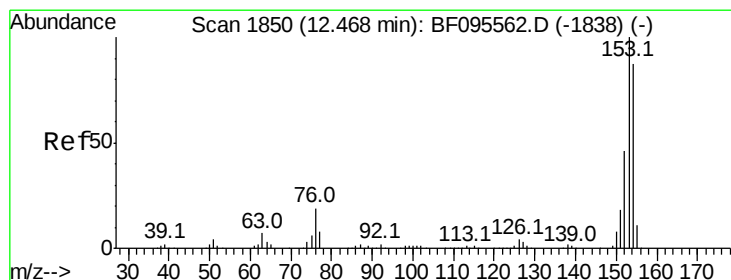
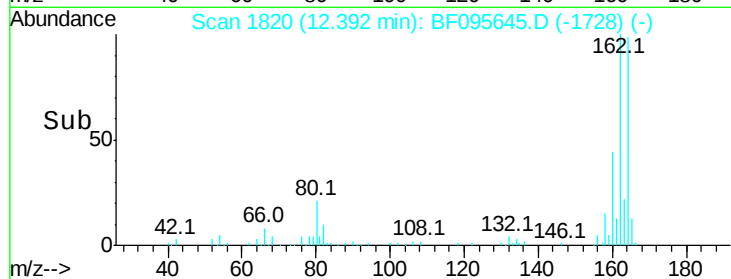
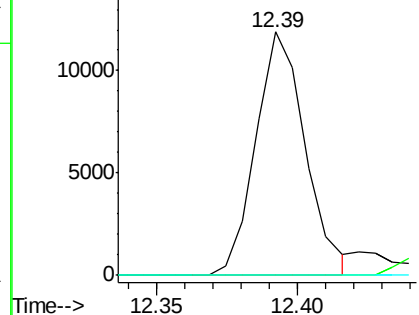
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#



Abundance Ion 165.00 (164.70 to 165.70): E

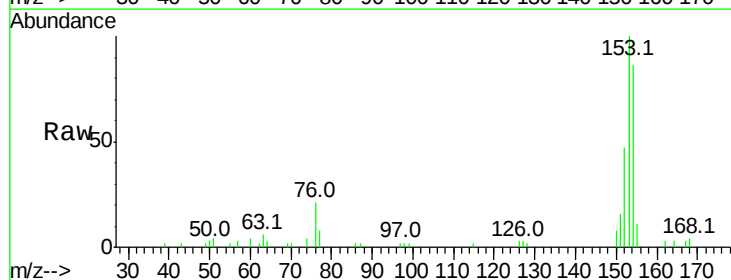
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#51
Acenaphthene
Concen: 3.20 ng
RT: 12.45 min Scan# 1829
Delta R.T. -0.01 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

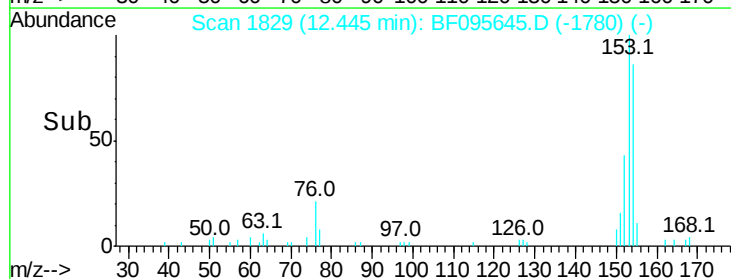
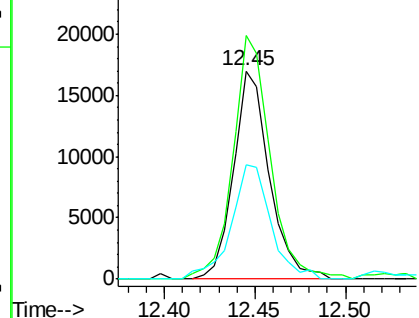
Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.8	90.5	135.7
152	54.7	43.6	65.4

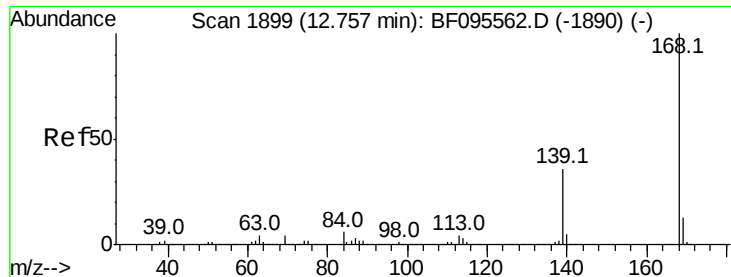


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 2.88 ng

RT: 12.75 min Scan# 1880

Delta R.T. 0.00 min

Lab File: BF095645.D

Acq: 2 Jun 2017 21:09

Instrument :

BNA_F

ClientSampled :

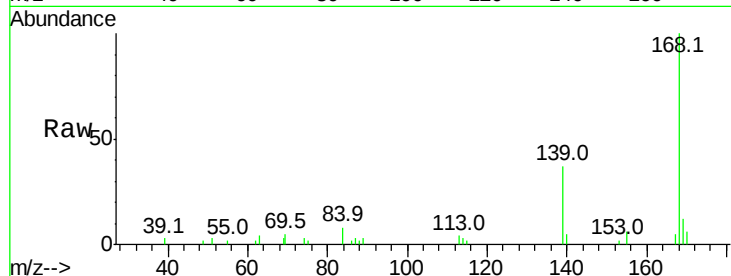
Tot Ion:168 Resp: 29181

Ion Ratio Lower Upper

168 100

139 37.0 30.6 45.8

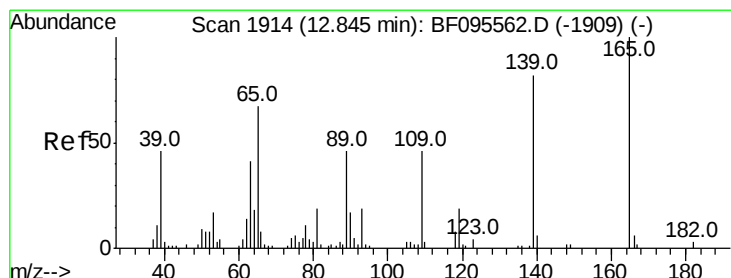
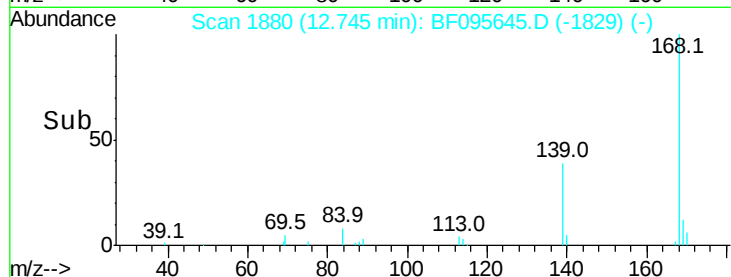
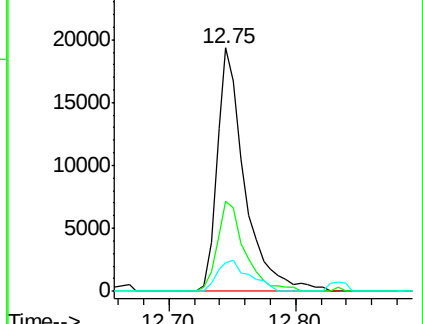
169 11.9 10.8 16.2



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



#55

4-Nitrophenol

Concen: 8.68 ng

RT: 12.75 min Scan# 1880

Delta R.T. -0.09 min

Lab File: BF095645.D

Acq: 2 Jun 2017 21:09

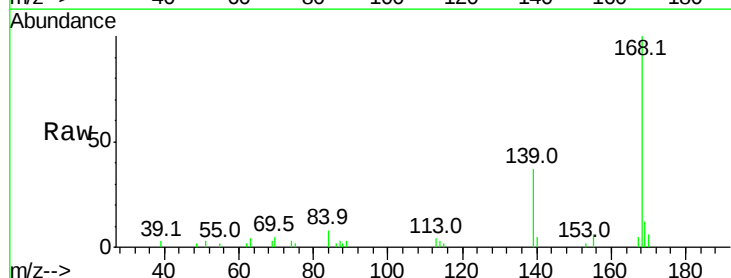
Tgt Ion:139 Resp: 10778

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

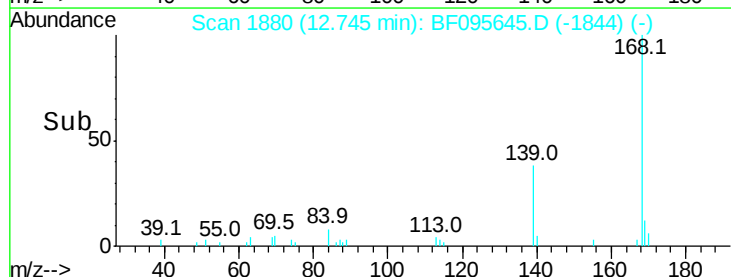
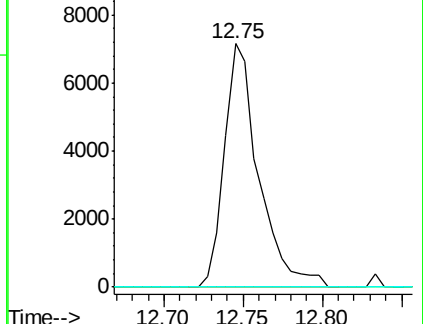
65 0.0 31.4 71.4#

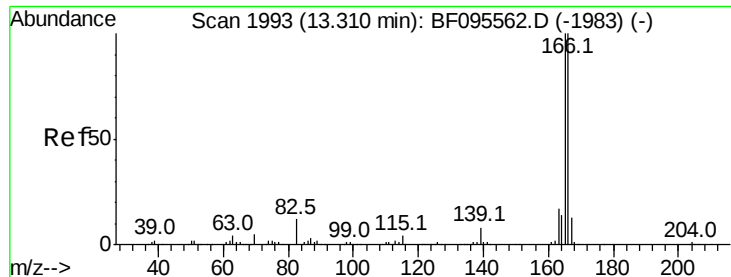


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

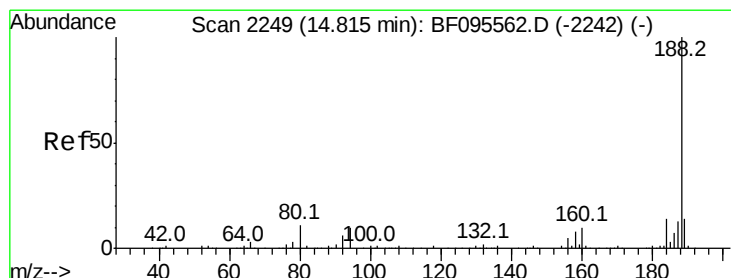
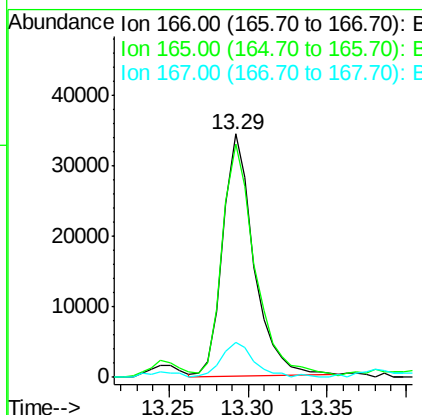
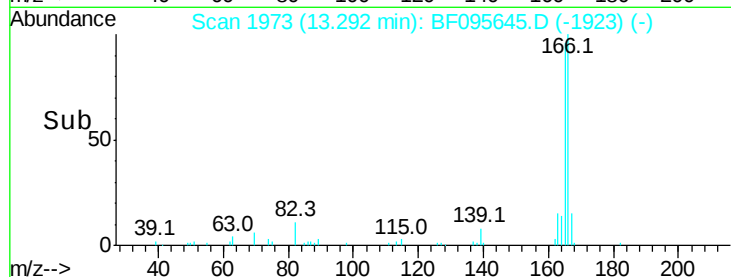
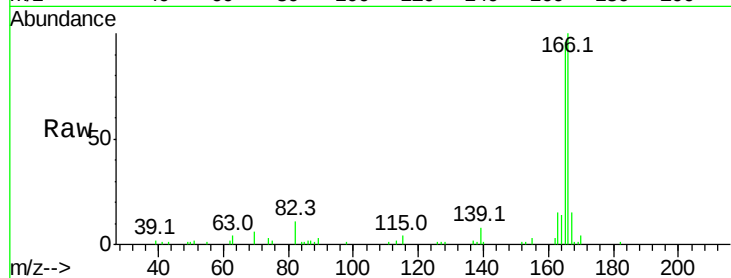




#57
 Fluorene
 Concen: 5.31 ng
 RT: 13.29 min Scan# 1973
 Delta R.T. -0.01 min
 Lab File: BF095645.D
 Acq: 2 Jun 2017 21:09

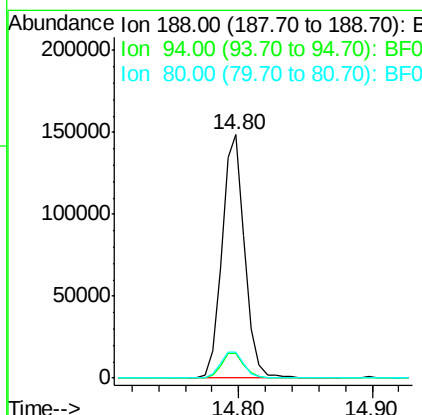
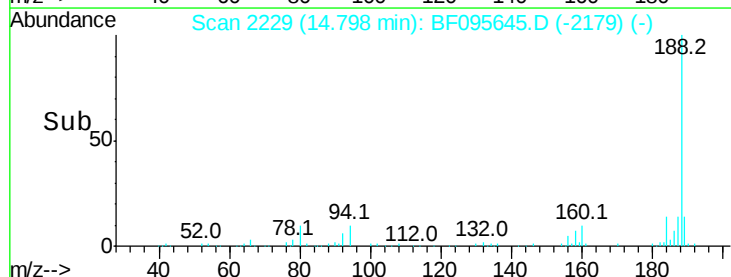
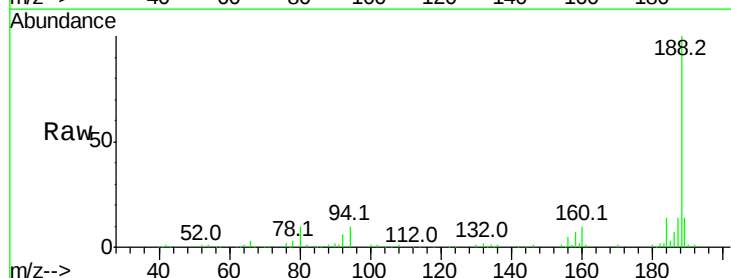
Instrument :
 BNA_F
 ClientSampleId :

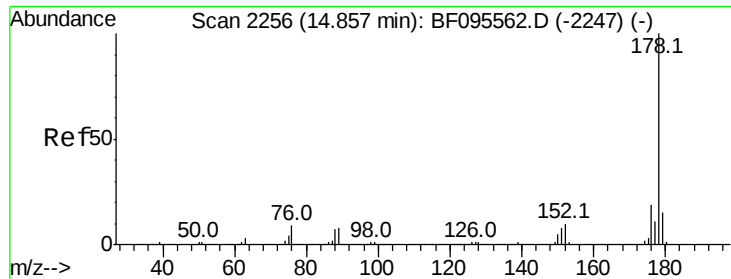
Tot Ion:166 Resp: 46690
 Ion Ratio Lower Upper
 166 100
 165 95.8 78.8 118.2
 167 14.5 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.80 min Scan# 2229
 Delta R.T. -0.01 min
 Lab File: BF095645.D
 Acq: 2 Jun 2017 21:09

Tgt Ion:188 Resp: 176961
 Ion Ratio Lower Upper
 188 100
 94 10.2 9.4 14.2
 80 10.5 10.2 15.2

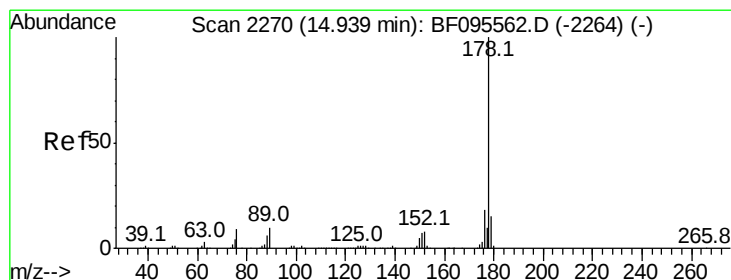
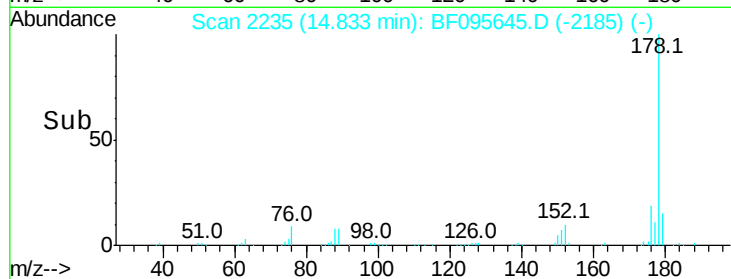
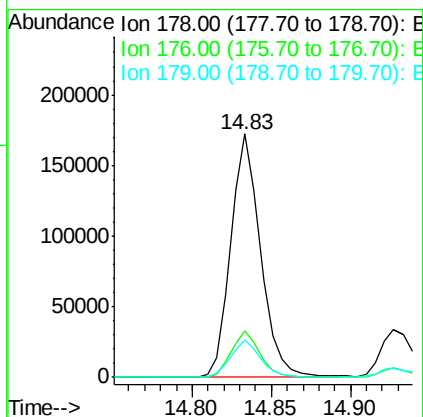
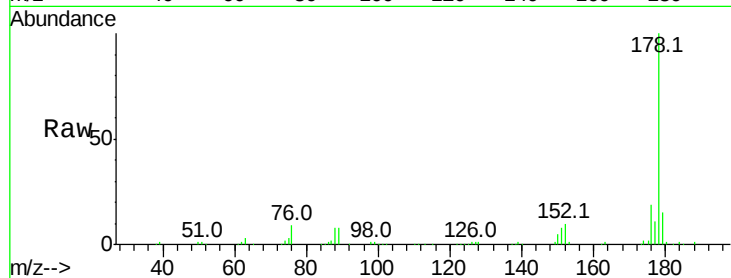




#70
Phenanthrene
Concen: 22.08 ng
RT: 14.83 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

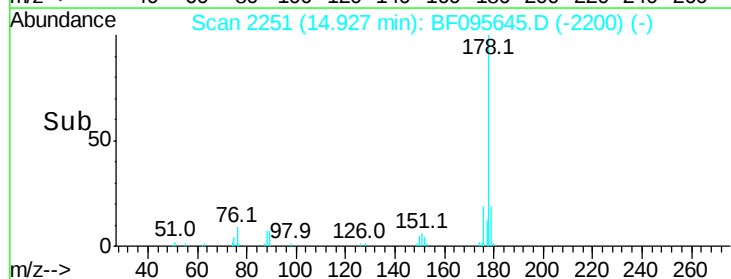
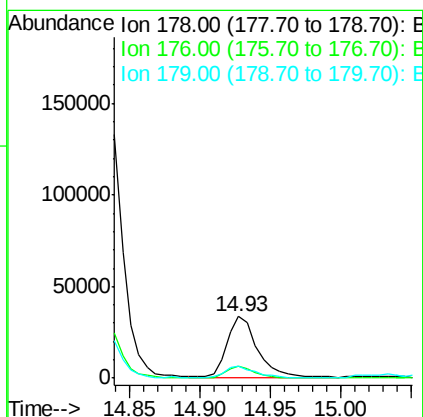
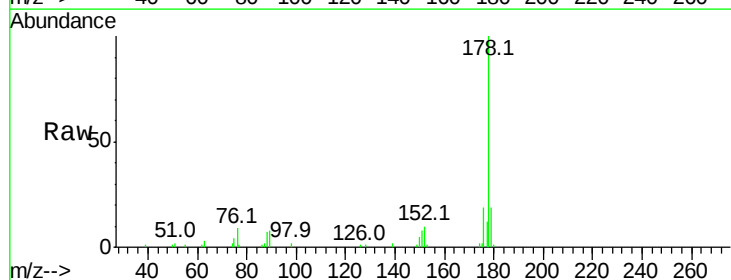
Instrument :
BNA_F
ClientSampled :

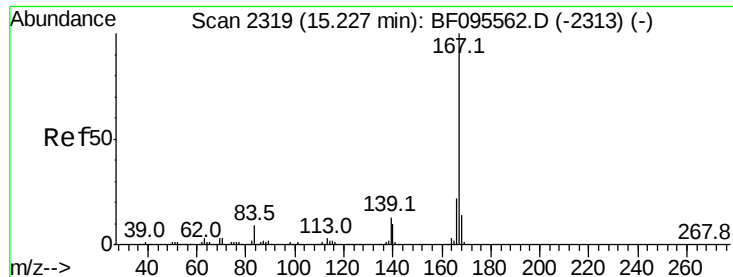
Tot Ion:178 Resp: 224509
Ion Ratio Lower Upper
178 100
176 19.1 16.2 24.4
179 15.2 12.6 19.0



#71
Anthracene
Concen: 4.85 ng
RT: 14.93 min Scan# 2251
Delta R.T. 0.00 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

Tgt Ion:178 Resp: 50416
Ion Ratio Lower Upper
178 100
176 18.5 15.8 23.8
179 19.0 12.7 19.1





#72

Carbazole

Concen: 2.15 ng

RT: 15.23 min Scan# 2303

Delta R.T. 0.02 min

Lab File: BF095645.D

Acq: 2 Jun 2017 21:09

Instrument :

BNA_F

ClientSampleId :

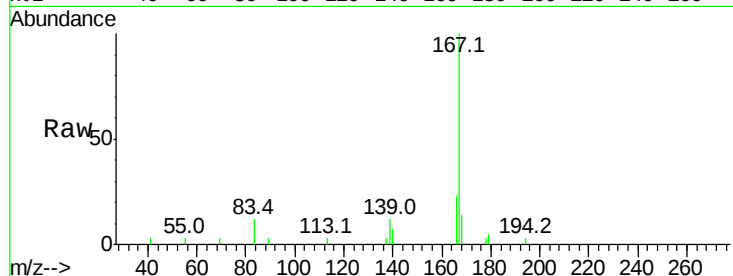
Tot Ion:167 Resp: 20362

Ion Ratio Lower Upper

167 100

166 23.2 18.1 27.1

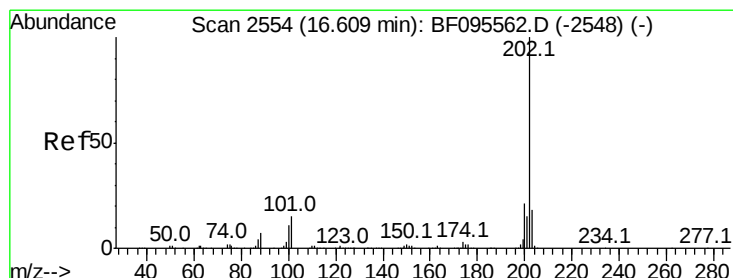
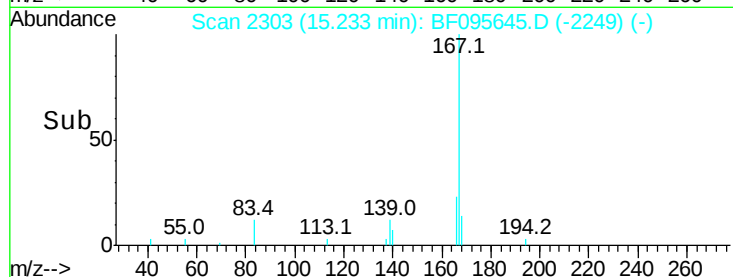
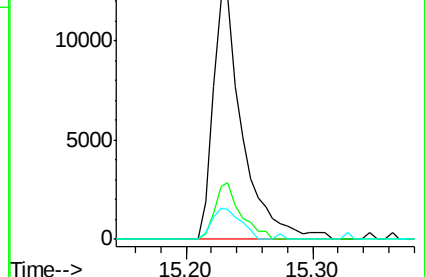
139 12.4 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 12.92 ng

RT: 16.60 min Scan# 2535

Delta R.T. -0.01 min

Lab File: BF095645.D

Acq: 2 Jun 2017 21:09

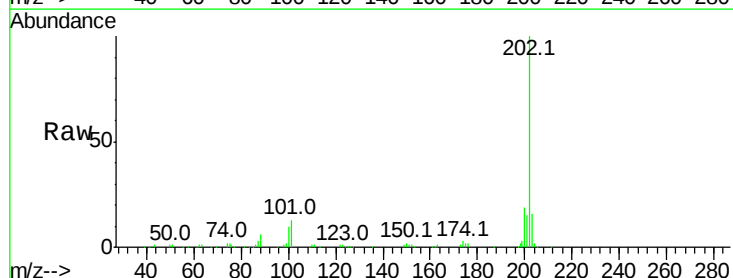
Tgt Ion:202 Resp: 134719

Ion Ratio Lower Upper

202 100

101 13.2 0.0 33.2

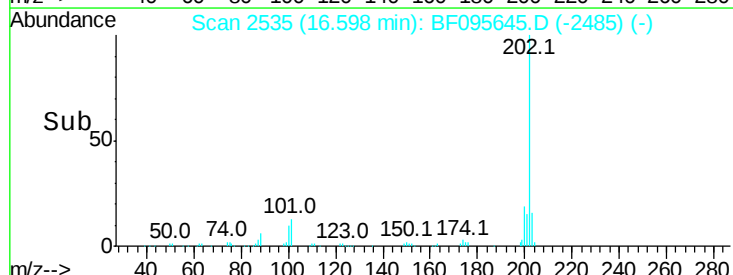
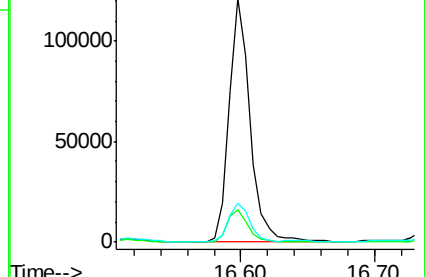
203 16.1 0.0 38.1

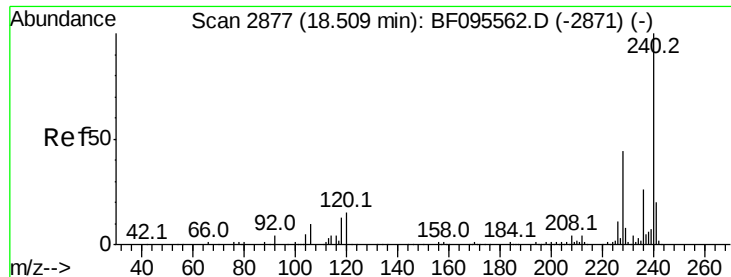


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.49 min Scan# 2857

Delta R.T. -0.01 min

Lab File: BF095645.D

Acq: 2 Jun 2017 21:09

Instrument :

BNA_F

ClientSampleId :

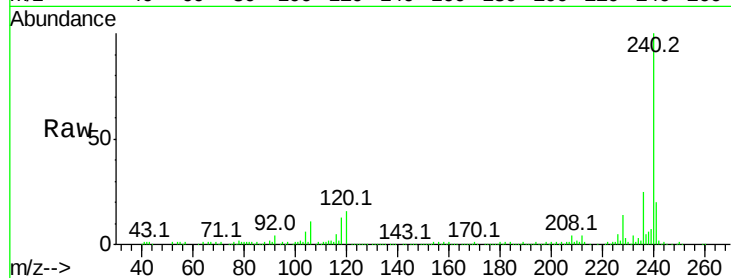
Tot Ion:240 Resp: 174434

Ion Ratio Lower Upper

240 100

120 15.8 5.8 8.8#

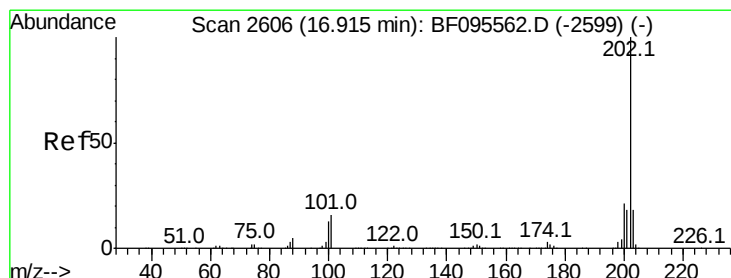
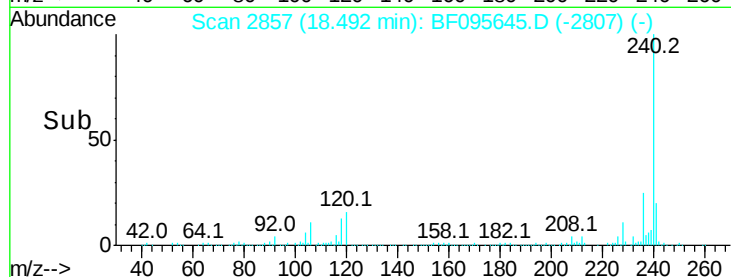
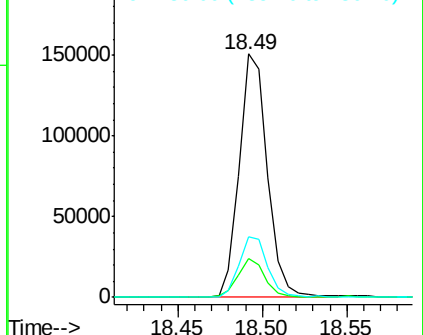
236 25.1 20.5 30.7



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



#77

Pyrene

Concen: 10.18 ng

RT: 16.90 min Scan# 2587

Delta R.T. 0.00 min

Lab File: BF095645.D

Acq: 2 Jun 2017 21:09

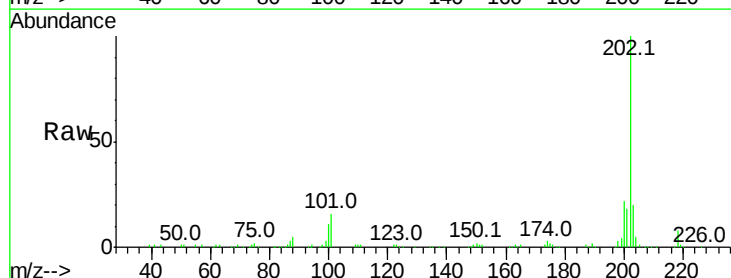
Tgt Ion:202 Resp: 132769

Ion Ratio Lower Upper

202 100

200 22.4 17.6 26.4

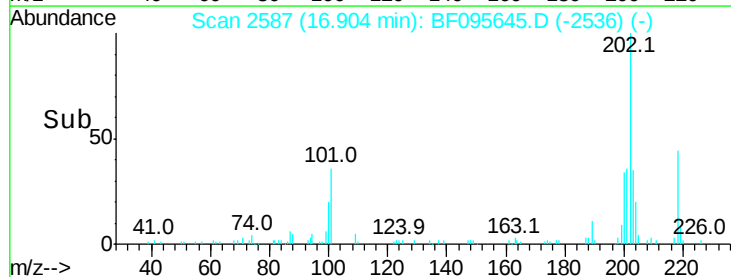
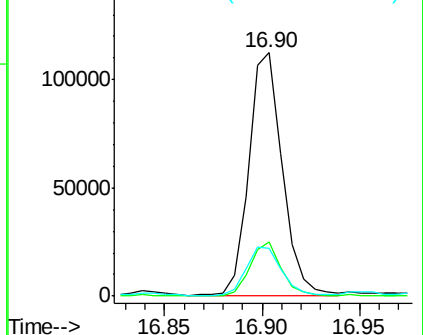
203 19.6 14.4 21.6

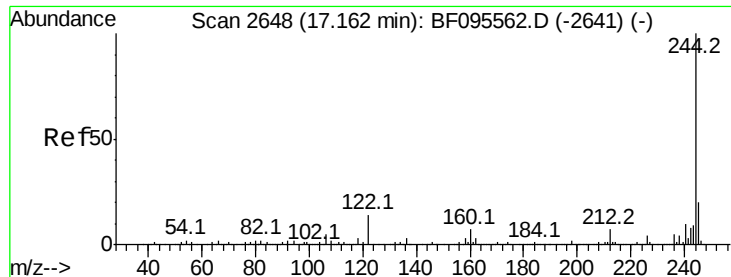


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

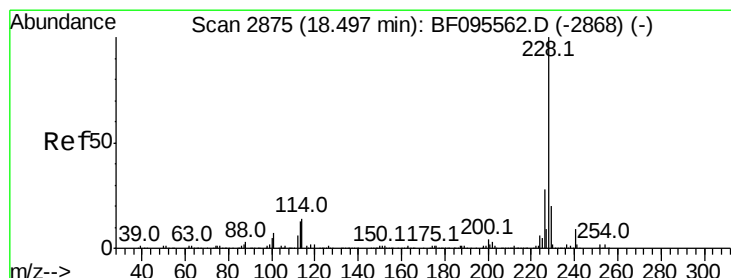
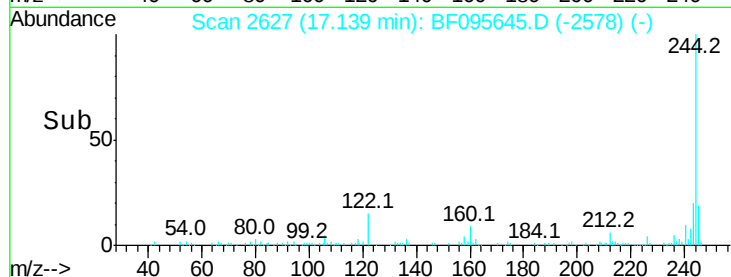
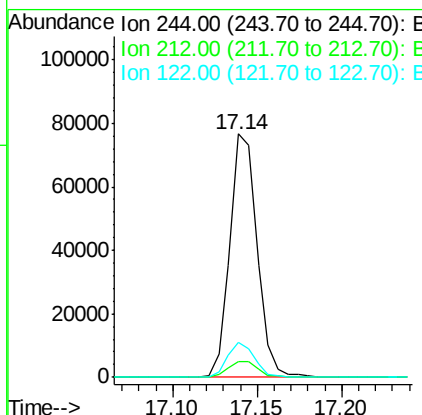
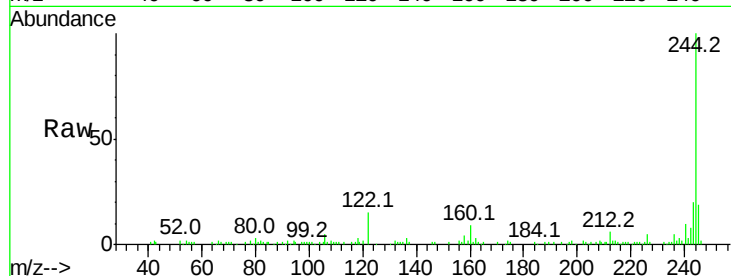




#78
 Terphenyl-d14
 Concen: 10.85 ng
 RT: 17.14 min Scan# 2627
 Delta R.T. -0.01 min
 Lab File: BF095645.D
 Acq: 2 Jun 2017 21:09

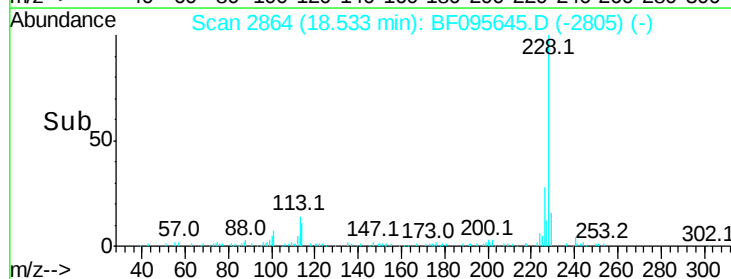
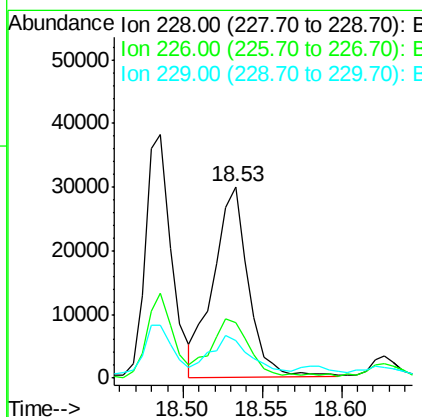
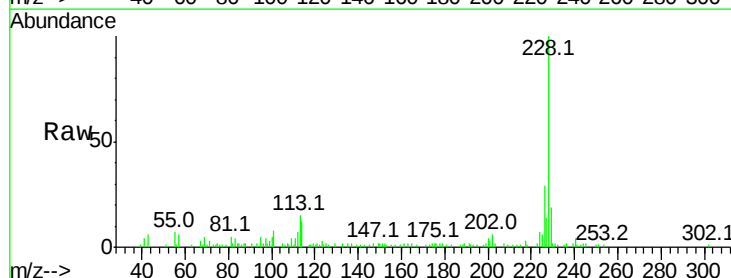
Instrument :
 BNA_F
 ClientSampleId :

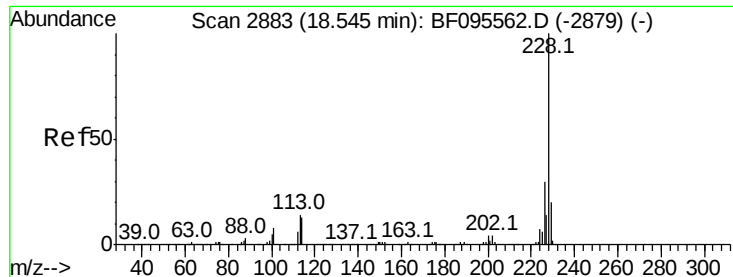
Tot Ion:244 Resp: 85908
 Ion Ratio Lower Upper
 244 100
 212 6.5 6.0 9.0
 122 14.6 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 4.50 ng
 RT: 18.53 min Scan# 2864
 Delta R.T. 0.05 min
 Lab File: BF095645.D
 Acq: 2 Jun 2017 21:09

Tgt Ion:228 Resp: 45662
 Ion Ratio Lower Upper
 228 100
 226 28.9 22.6 33.8
 229 19.3 16.3 24.5

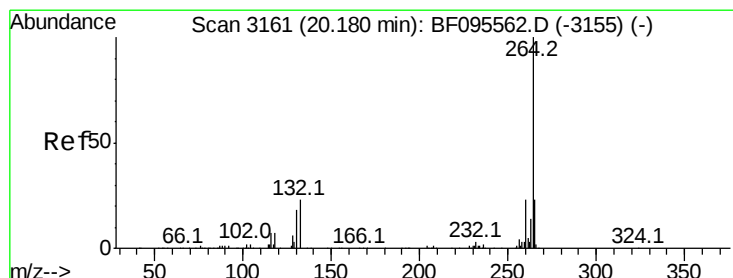
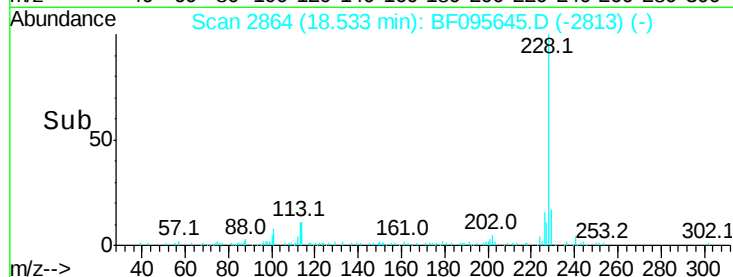
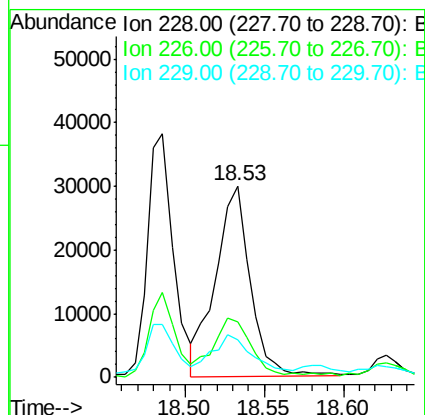
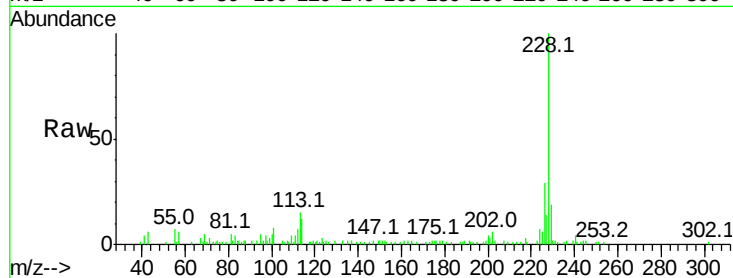




#82
Chrysene
Concen: 4.65 ng
RT: 18.53 min Scan# 2864
Delta R.T. 0.00 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

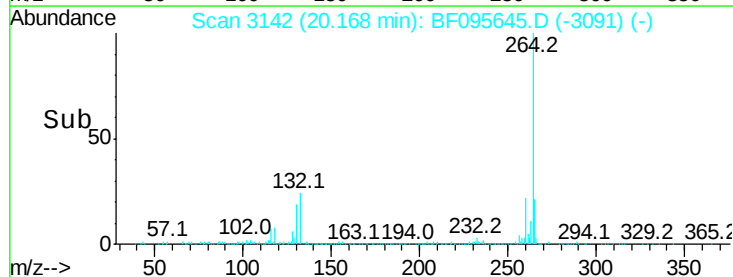
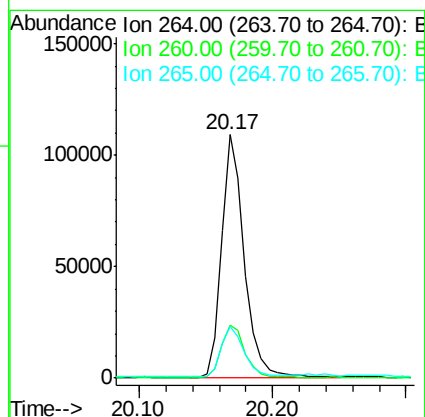
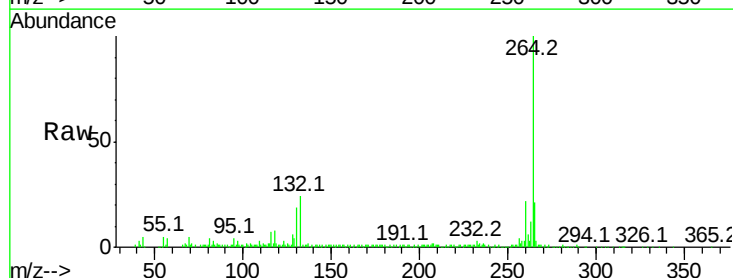
Instrument :
BNA_F
ClientSampleId :

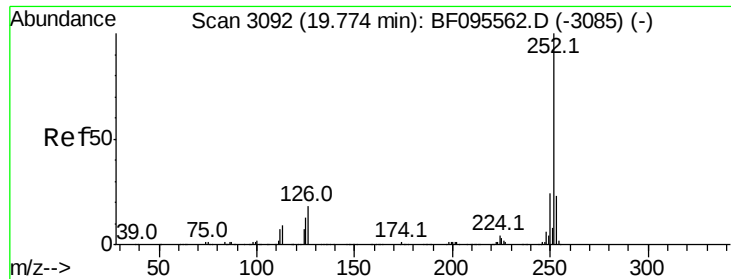
Tot Ion:228 Resp: 45662
Ion Ratio Lower Upper
228 100
226 28.9 24.9 37.3
229 19.3 15.8 23.6



#86
Perylene-d12
Concen: 20.00 ng
RT: 20.17 min Scan# 3142
Delta R.T. 0.00 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

Tgt Ion:264 Resp: 129583
Ion Ratio Lower Upper
264 100
260 21.6 19.5 29.3
265 21.1 17.2 25.8

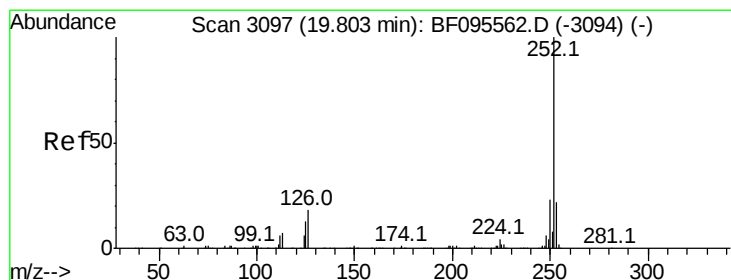
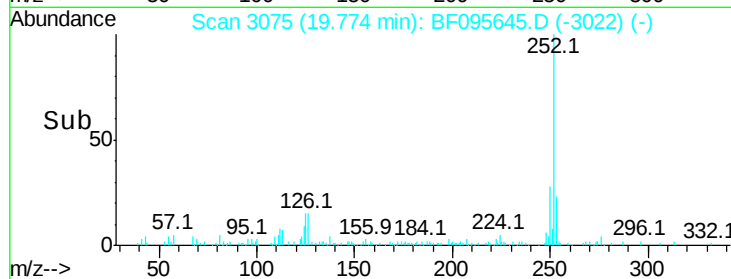
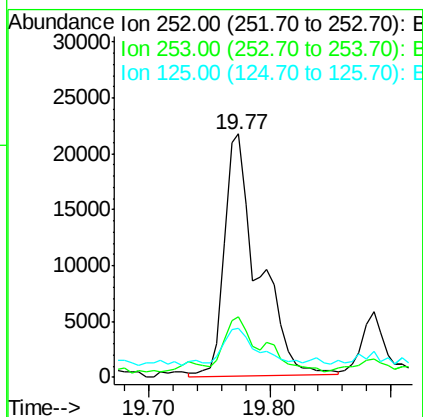
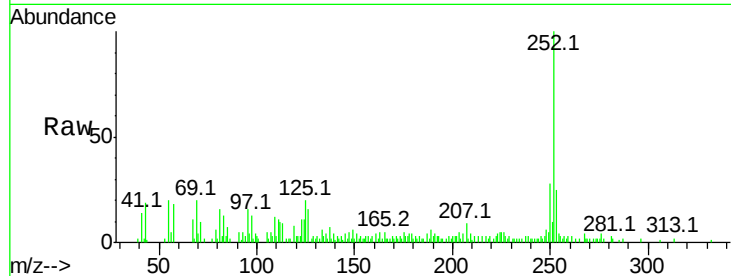




#87
Benzo(b)fluoranthene
Concen: 5.25 ng
RT: 19.77 min Scan# 3075
Delta R.T. 0.01 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

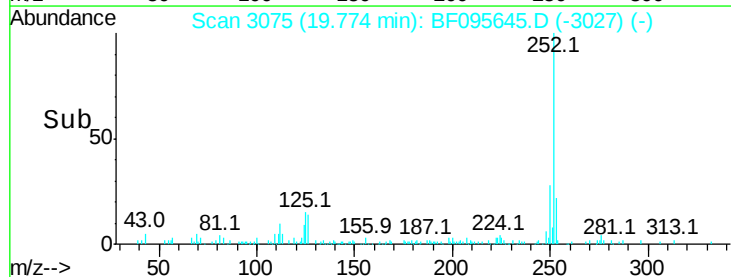
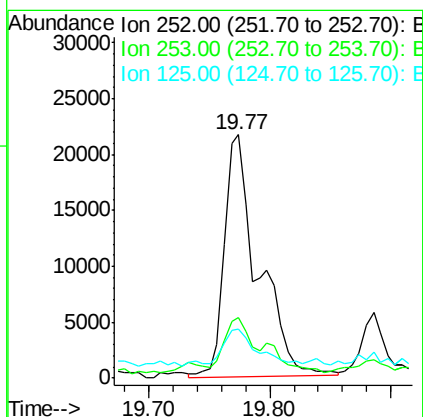
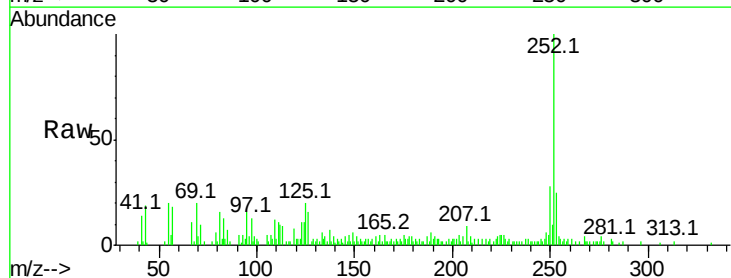
Instrument :
BNA_F
ClientSampled :

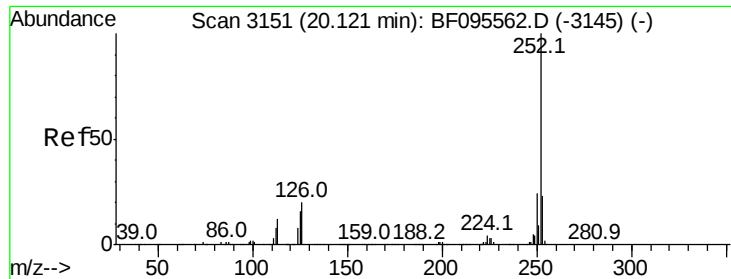
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.1	27.1
125	19.9	9.8	14.8



#88
Benzo(k)fluoranthene
Concen: 5.44 ng
RT: 19.77 min Scan# 3075
Delta R.T. -0.02 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.4	27.6
125	19.9	13.1	19.7

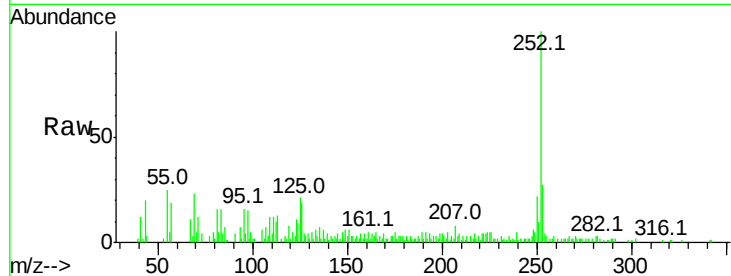




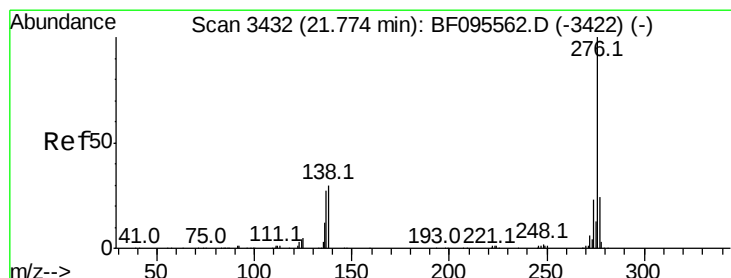
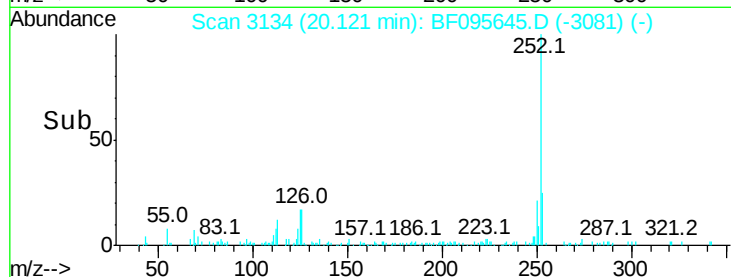
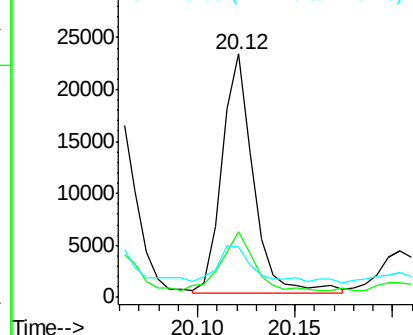
#89
Benzo(a)pyrene
Concen: 3.44 ng
RT: 20.12 min Scan# 3134
Delta R.T. 0.01 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 25443
Ion Ratio Lower Upper
252 100
253 26.9 17.5 26.3#
125 20.8 11.0 16.4#

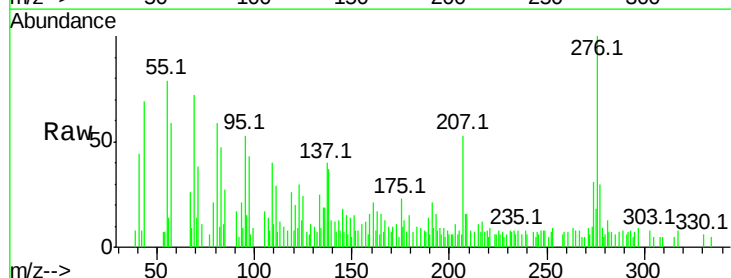


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 2.40 ng
RT: 21.79 min Scan# 3418
Delta R.T. 0.04 min
Lab File: BF095645.D
Acq: 2 Jun 2017 21:09

Tgt Ion:276 Resp: 14375
Ion Ratio Lower Upper
276 100
277 30.5 18.6 28.0#
138 36.7 25.4 38.0



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

