

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031517\
 Data File : BF093701.D
 Acq On : 16 Mar 2017 9:59
 Operator : SJ/MA
 Sample : I2264-03DL 20X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB7-SSWDL

Quant Time: Mar 16 15:18:24 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 15:05:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	132711	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	497084	20.00	ng	-0.01
38) Acenaphthene-d10	9.76	164	190469	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	301129	20.00	ng	0.00
75) Chrysene-d12	13.89	240	300158	20.00	ng	0.00
86) Perylene-d12	15.29	264	269271	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	52992	6.65	ng	0.03
7) Phenol-d6	6.41	99	73377	7.30	ng	0.03
23) Nitrobenzene-d5	7.30	82	48167	5.38	ng	0.00
41) 2,4,6-Tribromophenol	10.56	330	7542	6.08	ng	0.01
44) 2-Fluorobiphenyl	9.09	172	68918	6.73	ng	0.00
78) Terphenyl-d14	12.82	244	48611	4.21	ng	0.00

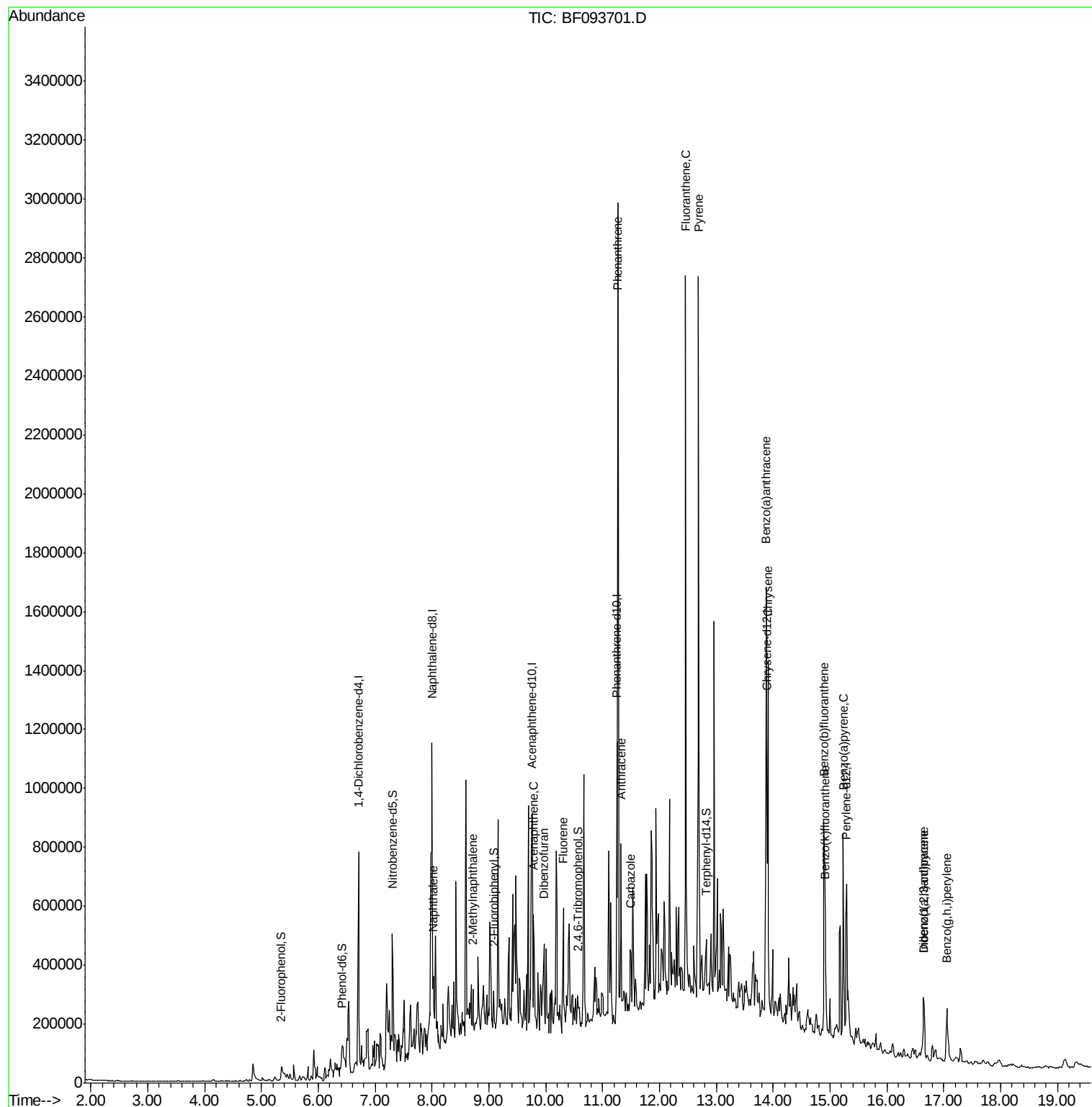
Target Compounds				Qvalue		
31) Naphthalene	8.02	128	79901	3.21	ng	100
37) 2-Methylnaphthalene	8.72	142	48465	3.06	ng	98
51) Acenaphthene	9.78	154	99035	9.56	ng	98
54) Dibenzofuran	9.97	168	65824	5.08	ng	# 92
57) Fluorene	10.31	166	111918	10.19	ng	95
70) Phenanthrene	11.27	178	998073	58.07	ng	99
71) Anthracene	11.33	178	291684	16.78	ng	98
72) Carbazole	11.50	167	76696	4.70	ng	98
74) Fluoranthene	12.46	202	924348	55.67	ng	98
77) Pyrene	12.69	202	1006565	46.11	ng	99
80) Benzo(a)anthracene	13.88	228	452260m	25.51	ng	
82) Chrysene	13.91	228	445087m	27.14	ng	
85) Indeno(1,2,3-cd)pyrene	16.64	276	142087	10.35	ng	96
87) Benzo(b)fluoranthene	14.89	252	466809m	28.46	ng	
88) Benzo(k)fluoranthene	14.92	252	88915m	5.62	ng	
89) Benzo(a)pyrene	15.24	252	333827	22.27	ng	99
90) Dibenzo(a,h)anthracene	16.64	278	32308m	2.61	ng	
91) Benzo(g,h,i)perylene	17.05	276	141044	11.08	ng	# 91

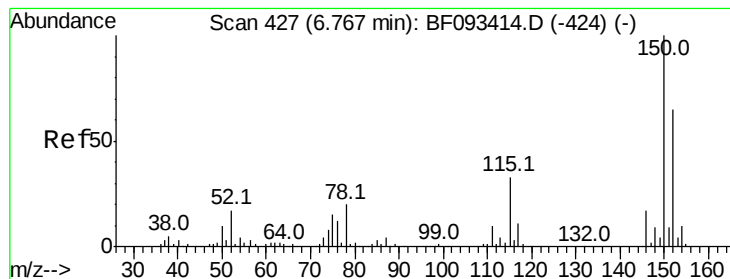
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.71 min Scan# 422

Delta R.T. -0.01 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

Instrument :

BNA_F

ClientSampleId :

E2-BB7-SSWDL

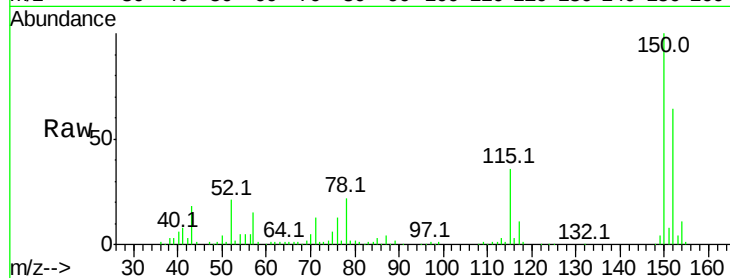
Tot Ion:152 Resp: 132711

Ion Ratio Lower Upper

152 100

150 156.7 124.9 187.3

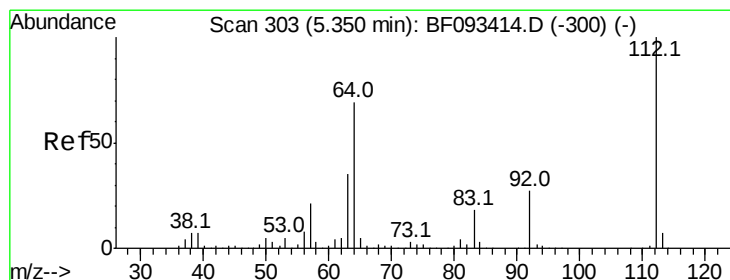
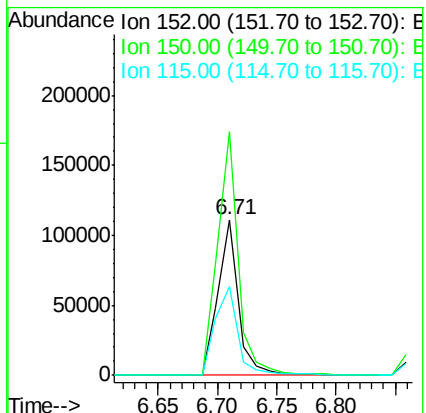
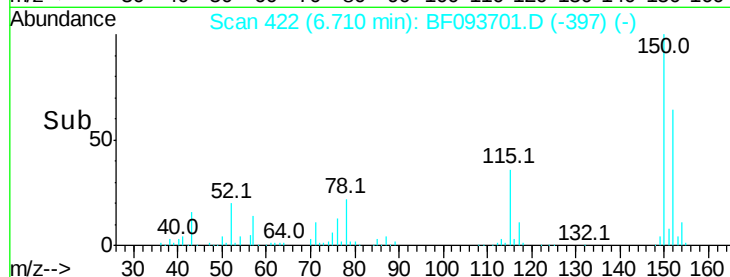
115 56.8 46.0 69.0



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: 6.65 ng

RT: 5.35 min Scan# 303

Delta R.T. 0.03 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

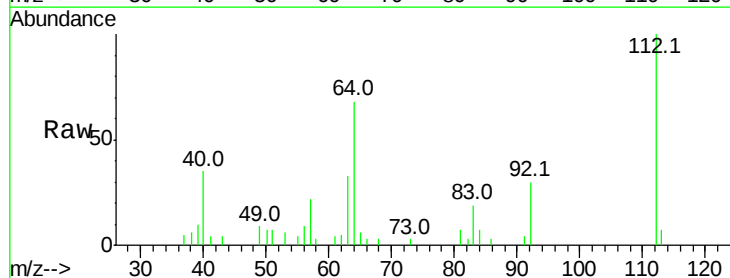
Tgt Ion:112 Resp: 52992

Ion Ratio Lower Upper

112 100

64 67.7 46.1 69.1

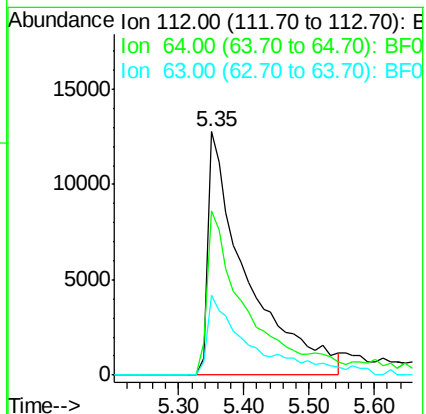
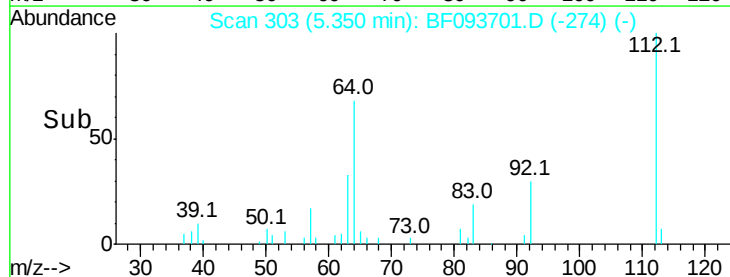
63 33.0 23.8 35.6

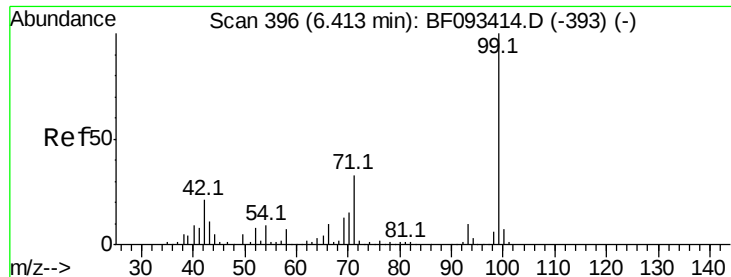


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 7.30 ng

RT: 6.41 min Scan# 396

Delta R.T. 0.03 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

Instrument :

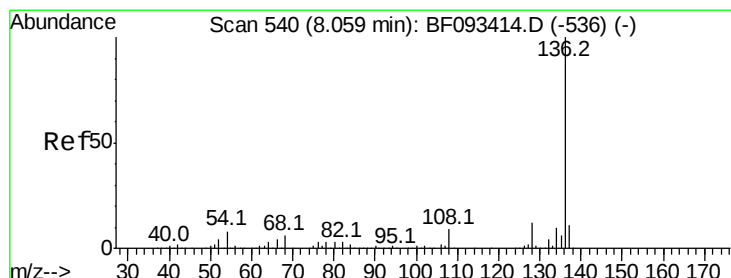
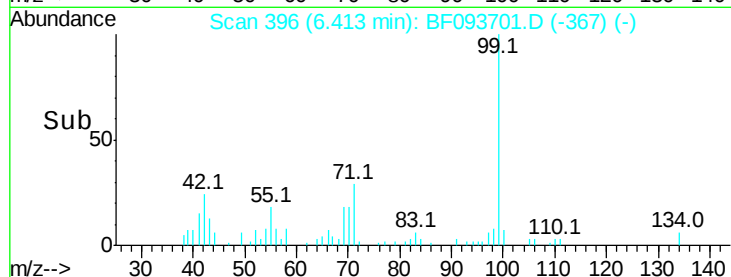
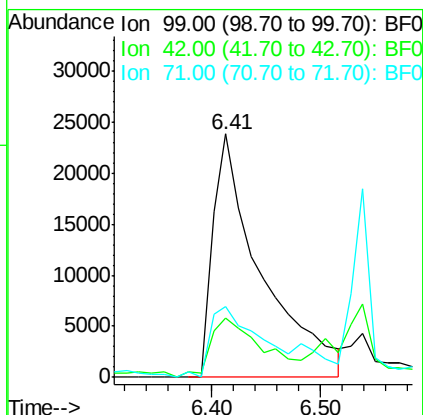
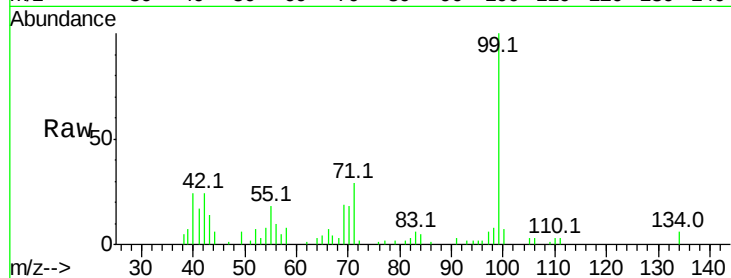
BNA_F

ClientSampleId :

E2-BB7-SSWDL

Tot Ion: 99 Resp: 73377

Ion	Ratio	Lower	Upper
99	100		
42	24.2	15.6	23.4#
71	28.9	27.5	41.3



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 535

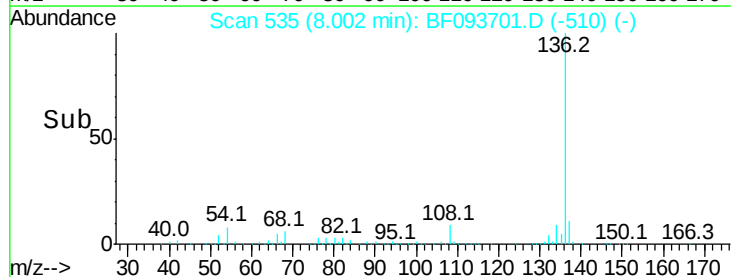
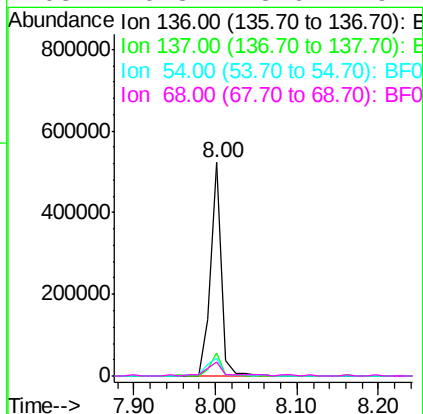
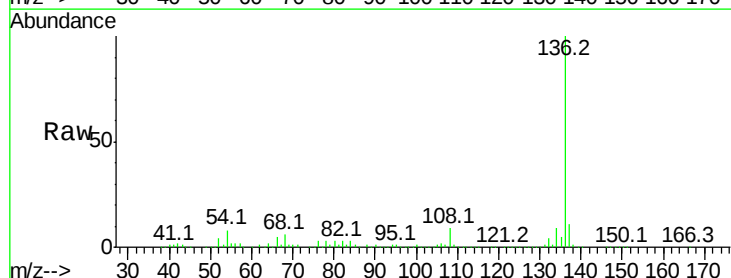
Delta R.T. -0.01 min

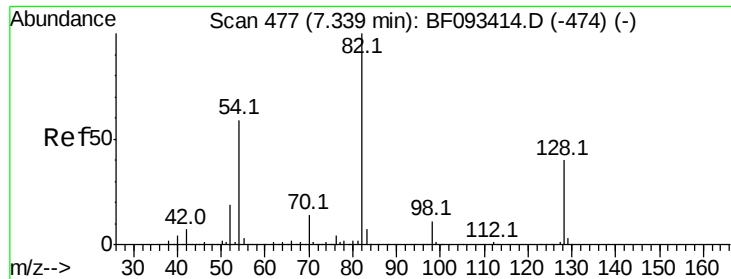
Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

Tgt Ion: 136 Resp: 497084

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	8.5	4.5	6.7#
68	6.3	3.6	5.4#

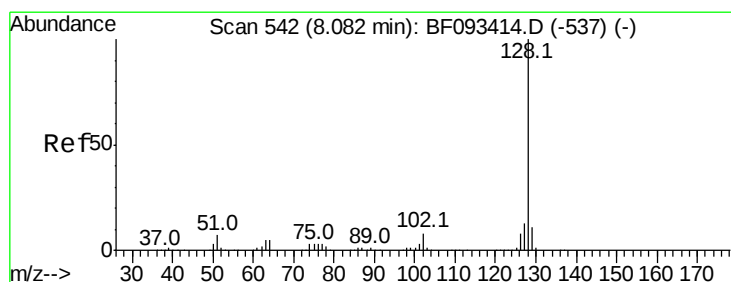
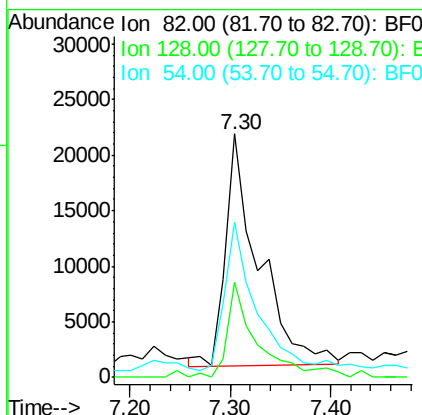
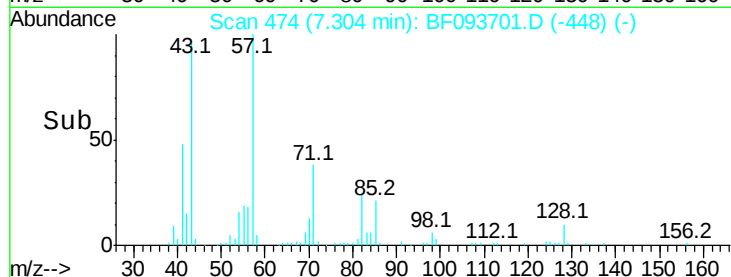
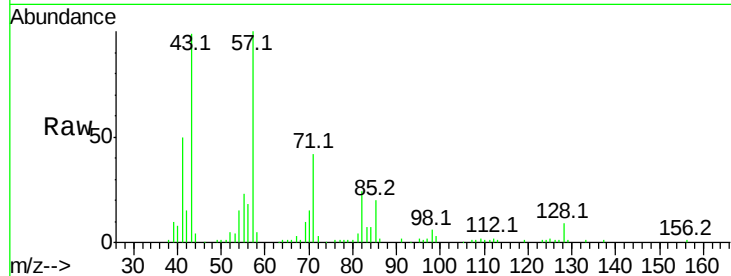




#23
 Nitrobenzene-d5
 Concen: 5.38 ng
 RT: 7.30 min Scan# 474
 Delta R.T. -0.00 min
 Lab File: BF093701.D
 Acq: 16 Mar 2017 9:59

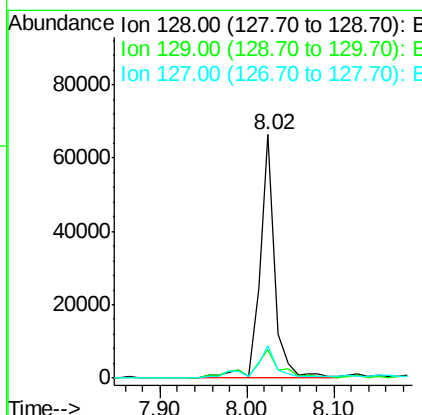
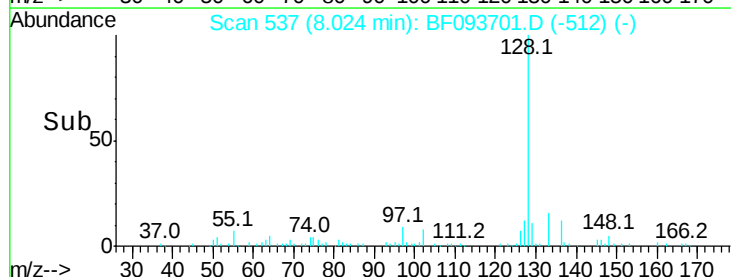
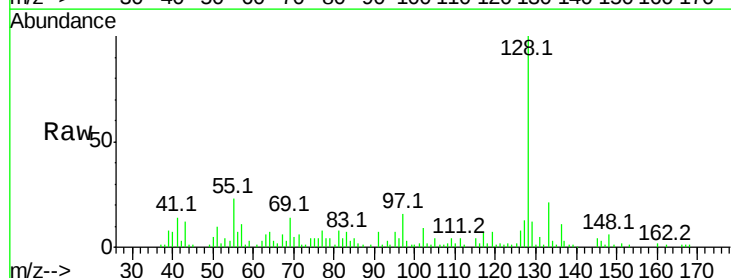
Instrument :
 BNA_F
 ClientSampleId :
 E2-BB7-SSWDL

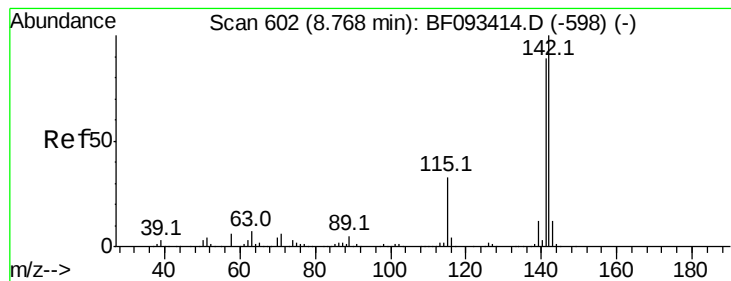
Tot Ion	82	Resp	48167
Ion Ratio	100	Lower	Upper
128	39.1	34.6	52.0
54	63.9	39.5	59.3#



#31
 Naphthalene
 Concen: 3.21 ng
 RT: 8.02 min Scan# 537
 Delta R.T. -0.01 min
 Lab File: BF093701.D
 Acq: 16 Mar 2017 9:59

Tgt Ion	128	Resp	79901
Ion Ratio	100	Lower	Upper
129	11.9	9.5	14.3
127	13.4	10.8	16.2





#37

2-Methylnaphthalene

Concen: 3.06 ng

RT: 8.72 min Scan# 598

Delta R.T. -0.00 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

Instrument :

BNA_F

ClientSampleId :

E2-BB7-SSWDL

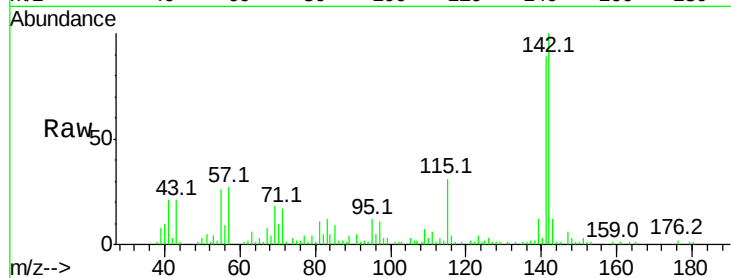
Tot Ion:142 Resp: 48465

Ion Ratio Lower Upper

142 100

141 88.9 71.0 106.6

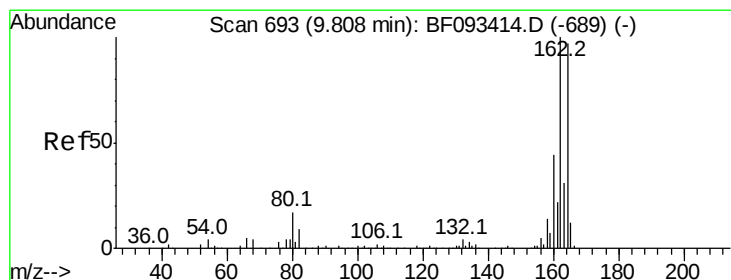
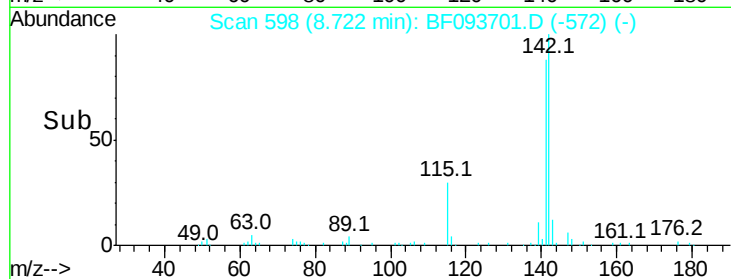
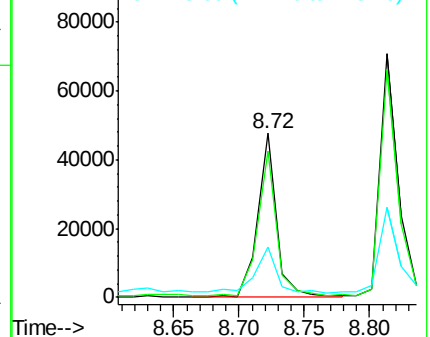
115 31.0 28.3 42.5



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.76 min Scan# 689

Delta R.T. -0.00 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

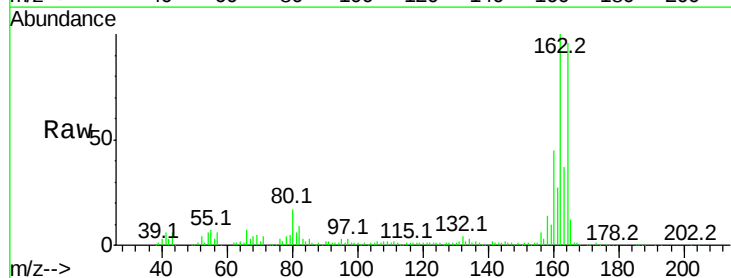
Tgt Ion:164 Resp: 190469

Ion Ratio Lower Upper

164 100

162 104.2 80.2 120.2

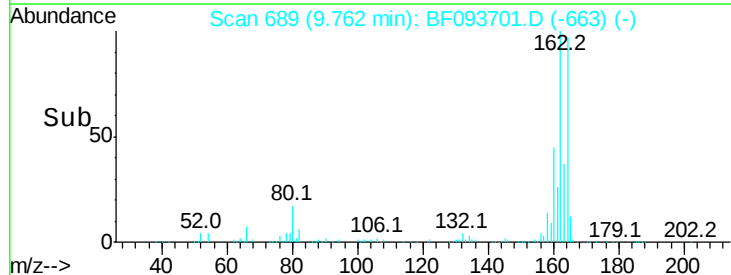
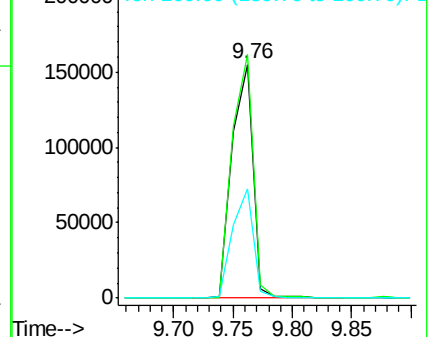
160 46.7 36.9 55.3

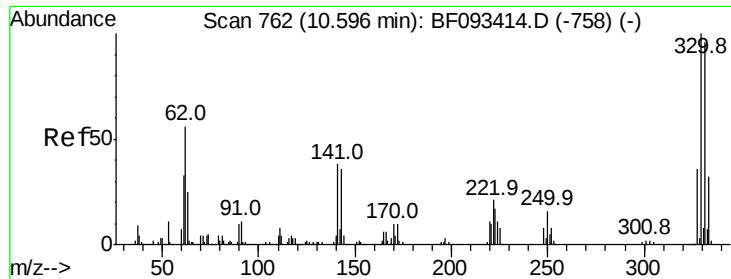


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

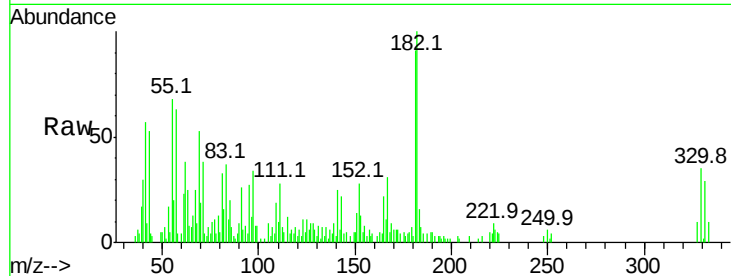




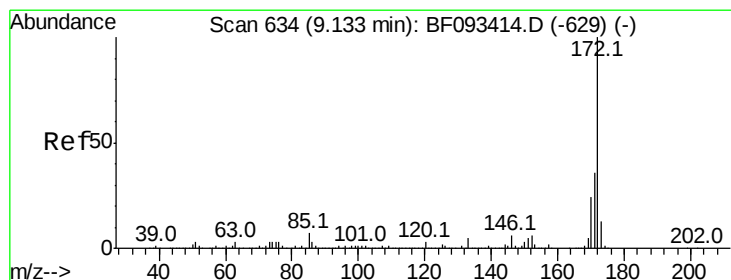
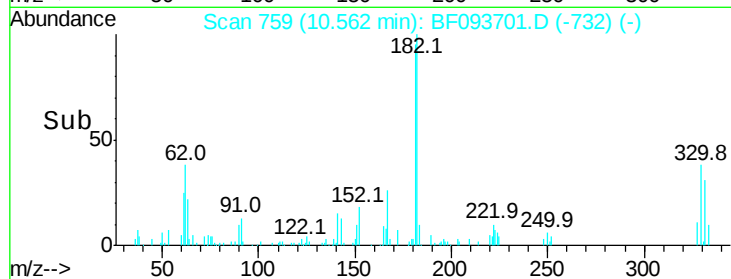
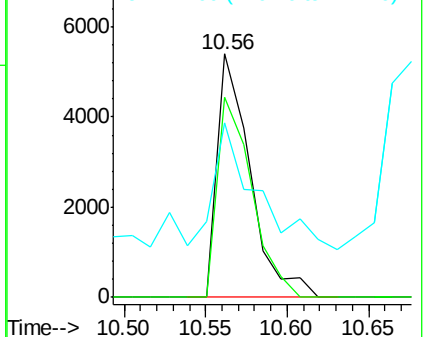
#41
 2,4,6-Tribromophenol
 Concen: 6.08 ng
 RT: 10.56 min Scan# 759
 Delta R.T. 0.01 min
 Lab File: BF093701.D
 Acq: 16 Mar 2017 9:59

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB7-SSWDL

Tot Ion:330 Resp: 7542
 Ion Ratio Lower Upper
 330 100
 332 85.9 77.4 116.2
 141 79.1 34.1 51.1#

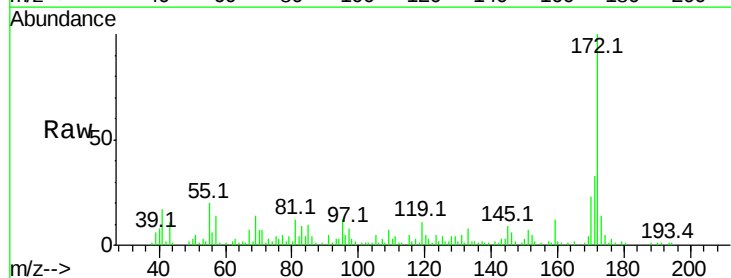


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

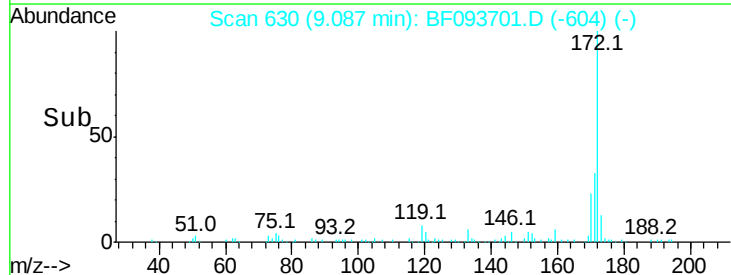
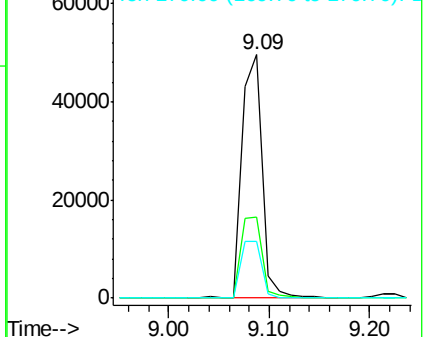


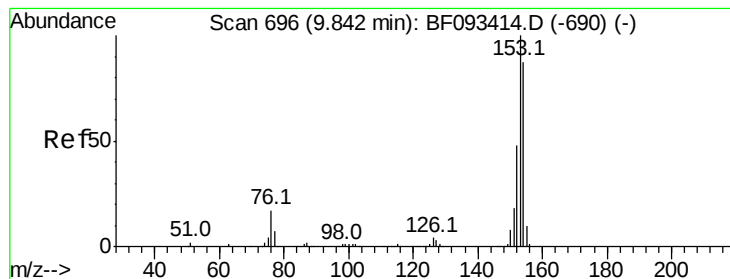
#44
 2-Fluorobiphenyl
 Concen: 6.73 ng
 RT: 9.09 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: BF093701.D
 Acq: 16 Mar 2017 9:59

Tgt Ion:172 Resp: 68918
 Ion Ratio Lower Upper
 172 100
 171 33.1 29.4 44.0
 170 23.4 20.2 30.4



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





#51

Acenaphthene

Concen: 9.56 ng

RT: 9.78 min Scan# 691

Delta R.T. -0.01 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

Instrument :

BNA_F

ClientSampleId :

E2-BB7-SSWDL

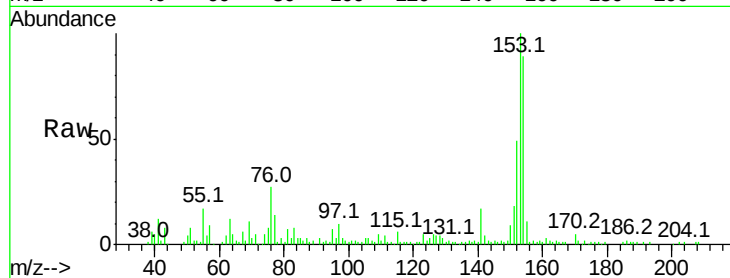
Tot Ion:154 Resp: 99035

Ion Ratio Lower Upper

154 100

153 111.8 88.6 133.0

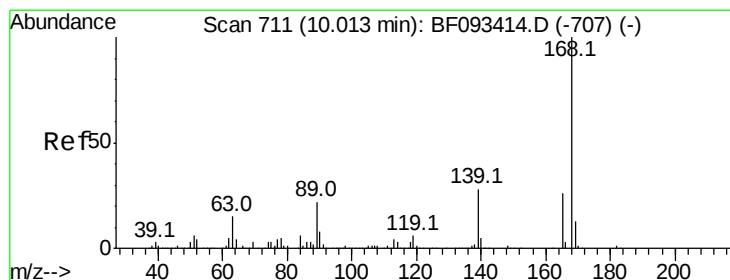
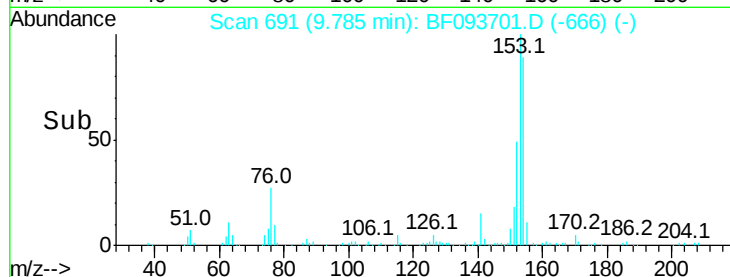
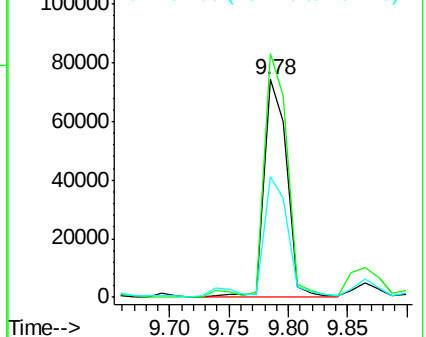
152 55.3 41.6 62.4



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: 5.08 ng

RT: 9.97 min Scan# 707

Delta R.T. -0.00 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

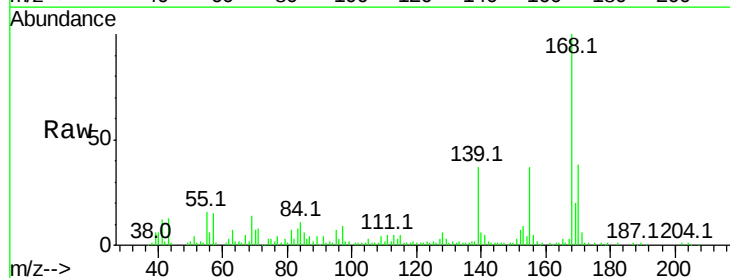
Tgt Ion:168 Resp: 65824

Ion Ratio Lower Upper

168 100

139 37.4 32.6 49.0

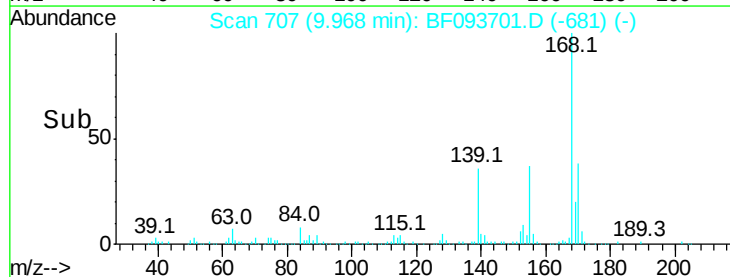
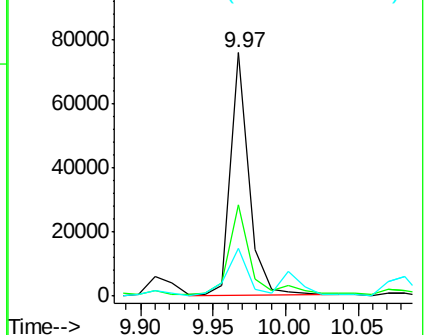
169 19.5 11.3 16.9#

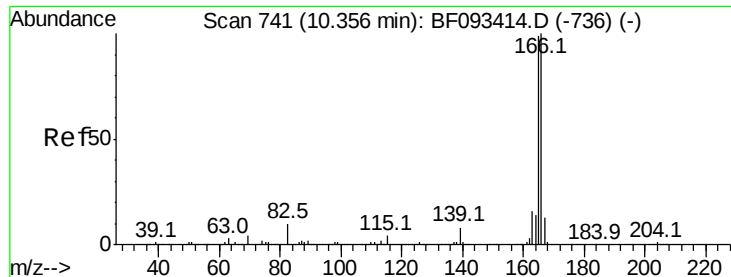


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

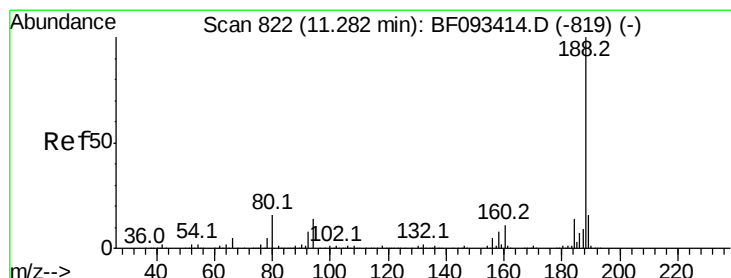
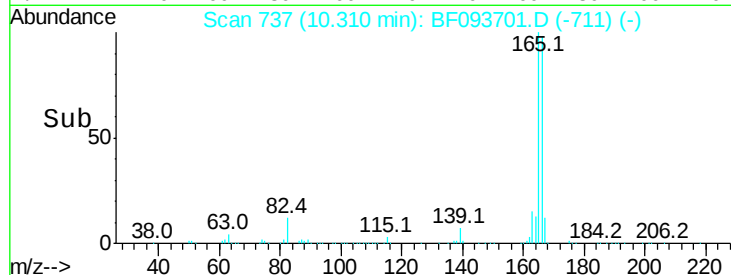
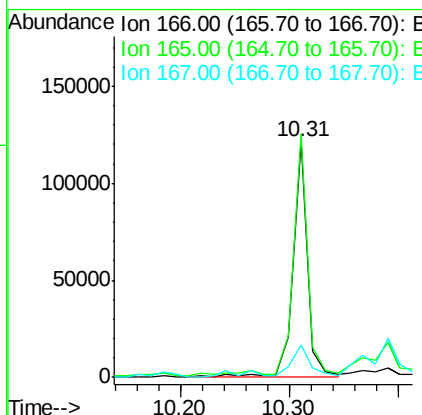
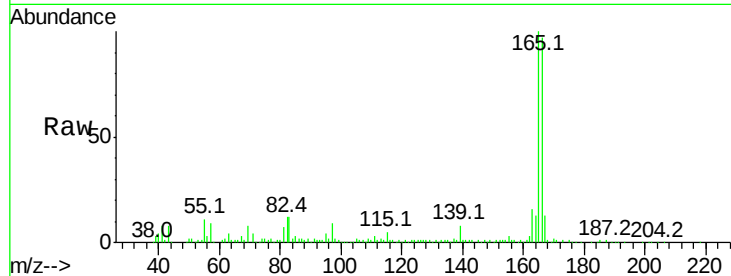




#57
Fluorene
Concen: 10.19 ng
RT: 10.31 min Scan# 737
Delta R.T. -0.00 min
Lab File: BF093701.D
Acq: 16 Mar 2017 9:59

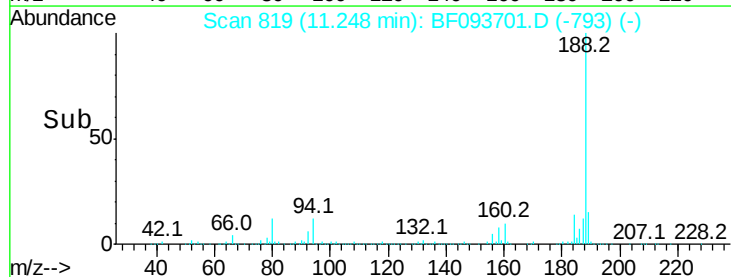
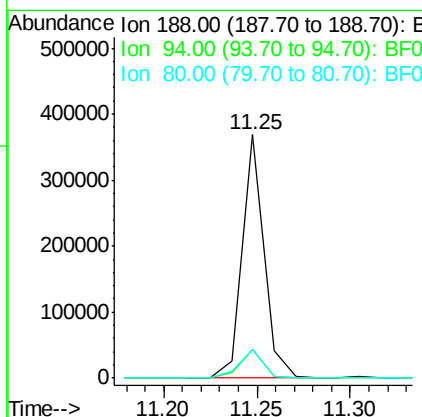
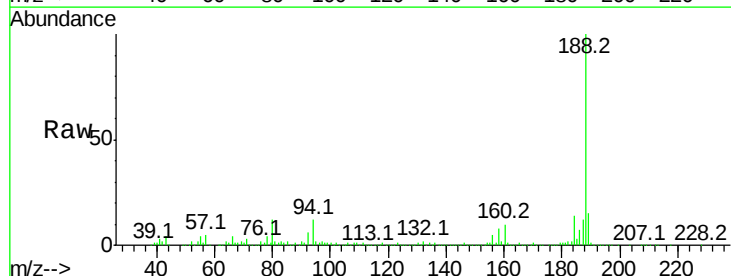
Instrument :
BNA_F
ClientSampleId :
E2-BB7-SSWDL

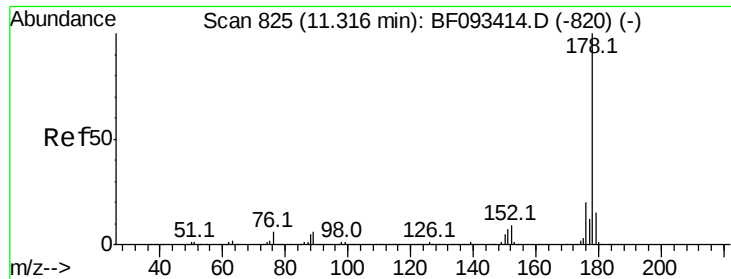
Tot Ion:166 Resp: 111918
Ion Ratio Lower Upper
166 100
165 103.2 77.8 116.8
167 13.5 10.8 16.2



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.25 min Scan# 819
Delta R.T. -0.00 min
Lab File: BF093701.D
Acq: 16 Mar 2017 9:59

Tgt Ion:188 Resp: 301129
Ion Ratio Lower Upper
188 100
94 11.7 10.0 15.0
80 11.7 11.2 16.8

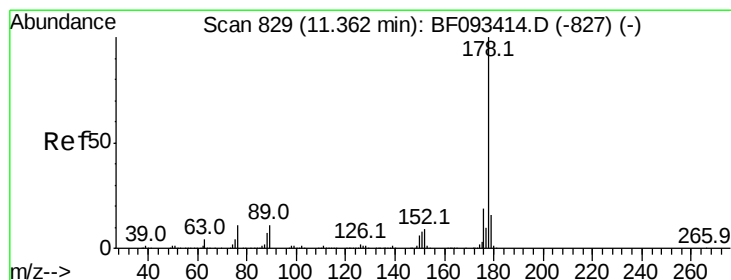
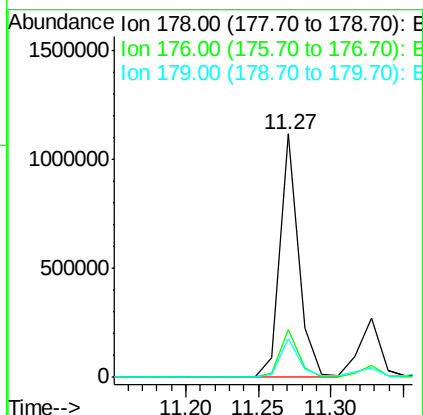
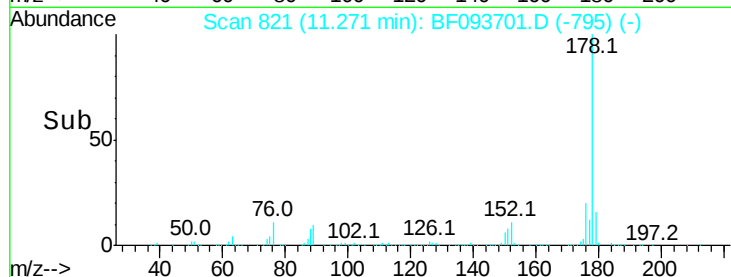
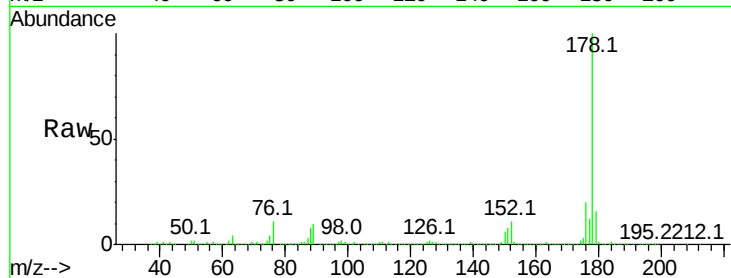




#70
Phenanthrene
Concen: 58.07 ng
RT: 11.27 min Scan# 821
Delta R.T. -0.00 min
Lab File: BF093701.D
Acq: 16 Mar 2017 9:59

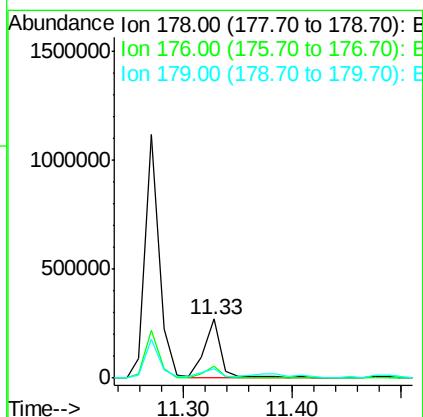
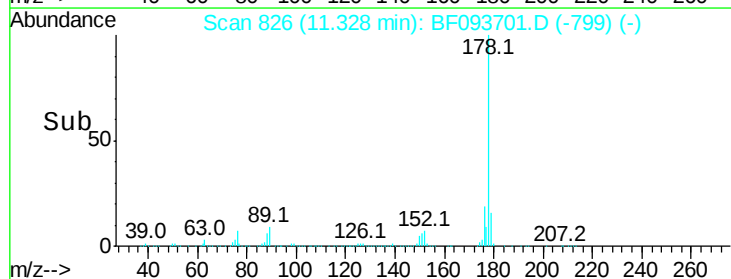
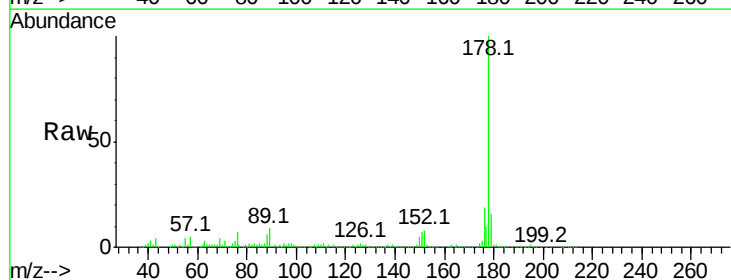
Instrument :
BNA_F
ClientSampleId :
E2-BB7-SSWDL

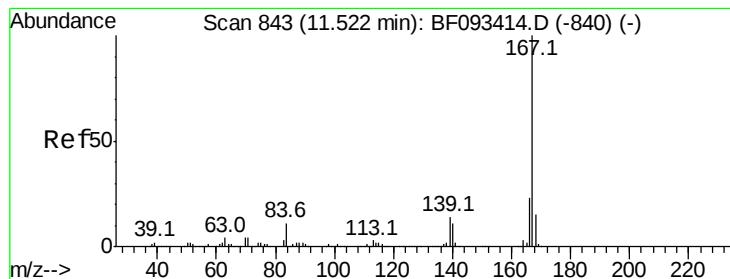
Tot Ion:178 Resp: 998073
Ion Ratio Lower Upper
178 100
176 19.9 16.6 25.0
179 16.1 12.8 19.2



#71
Anthracene
Concen: 16.78 ng
RT: 11.33 min Scan# 826
Delta R.T. 0.01 min
Lab File: BF093701.D
Acq: 16 Mar 2017 9:59

Tgt Ion:178 Resp: 291684
Ion Ratio Lower Upper
178 100
176 19.2 15.9 23.9
179 15.8 13.2 19.8





#72

Carbazole

Concen: 4.70 ng

RT: 11.50 min Scan# 841

Delta R.T. 0.01 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

Instrument :

BNA_F

ClientSampleId :

E2-BB7-SSWDL

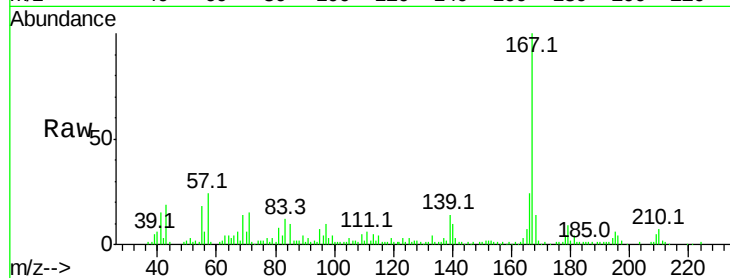
Tot Ion:167 Resp: 76696

Ion Ratio Lower Upper

167 100

166 23.7 18.2 27.2

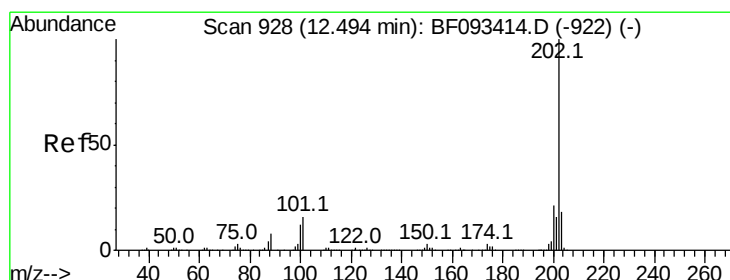
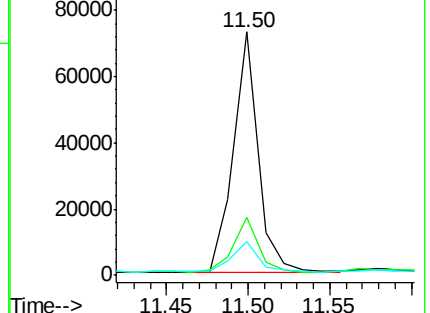
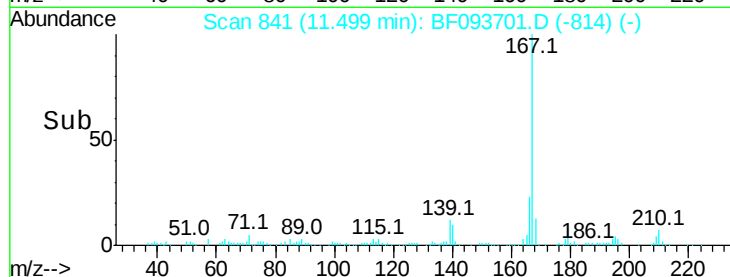
139 13.6 11.4 17.2



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: 55.67 ng

RT: 12.46 min Scan# 925

Delta R.T. -0.00 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

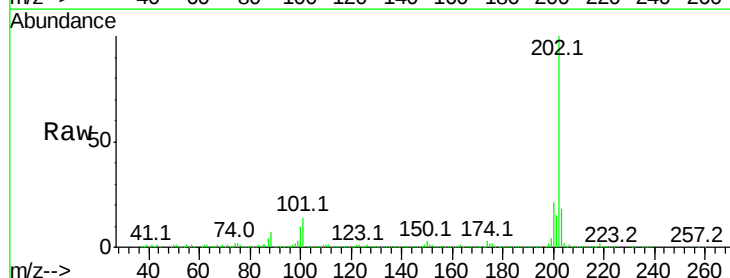
Tgt Ion:202 Resp: 924348

Ion Ratio Lower Upper

202 100

101 14.2 0.0 34.6

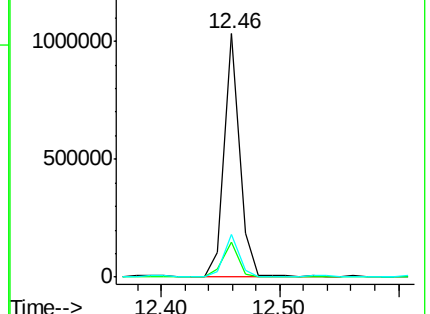
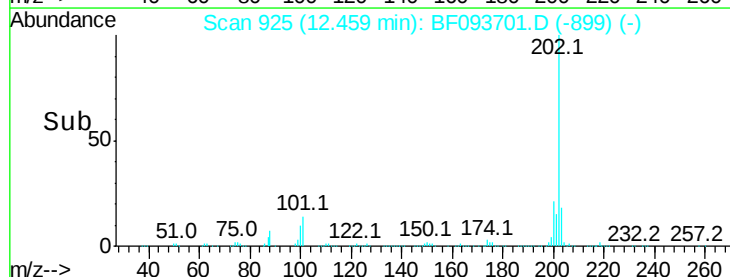
203 17.6 0.0 38.7

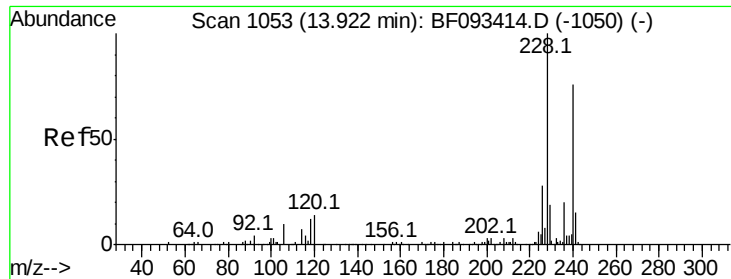


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.89 min Scan# 1050

Delta R.T. -0.00 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

Instrument :

BNA_F

ClientSampleId :

E2-BB7-SSWDL

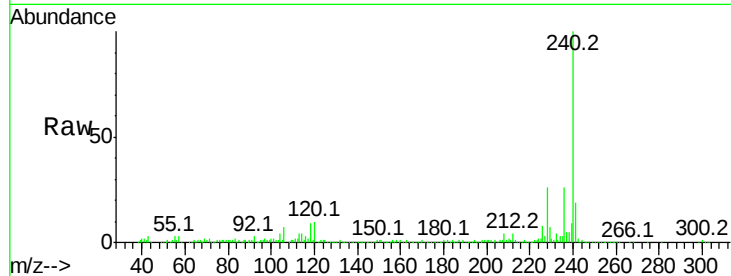
Tot Ion:240 Resp: 300158

Ion Ratio Lower Upper

240 100

120 10.4 12.9 19.3#

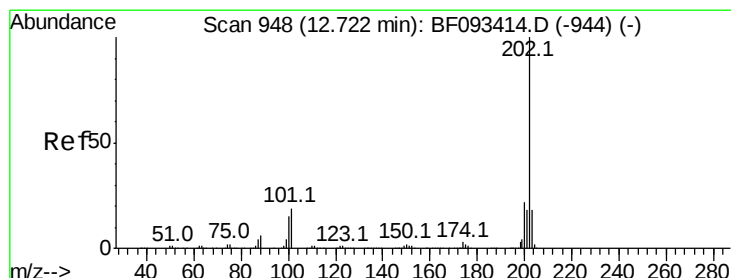
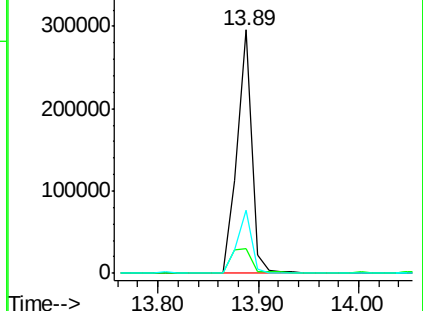
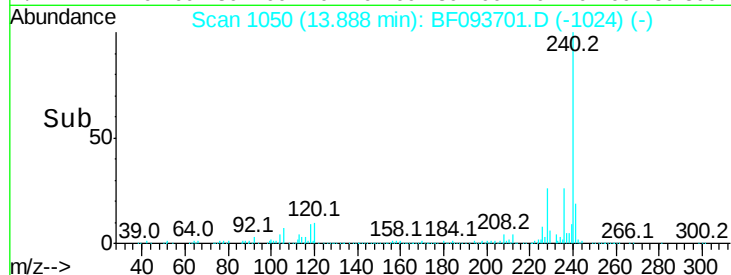
236 26.0 20.9 31.3



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: 46.11 ng

RT: 12.69 min Scan# 945

Delta R.T. 0.01 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

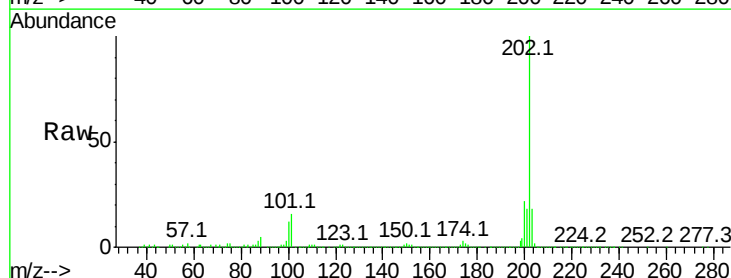
Tgt Ion:202 Resp: 1006565

Ion Ratio Lower Upper

202 100

200 21.7 17.7 26.5

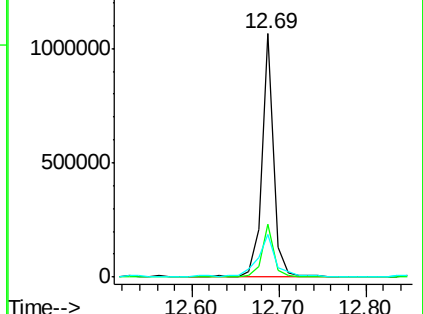
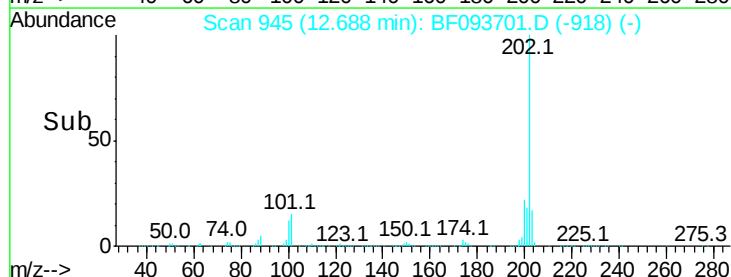
203 17.6 14.7 22.1

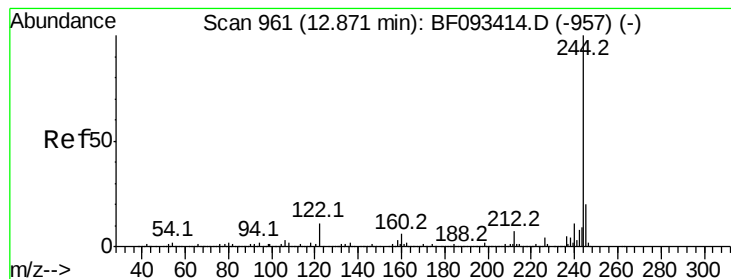


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.21 ng

RT: 12.82 min Scan# 957

Delta R.T. -0.00 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

Instrument :

BNA_F

ClientSampleId :

E2-BB7-SSWDL

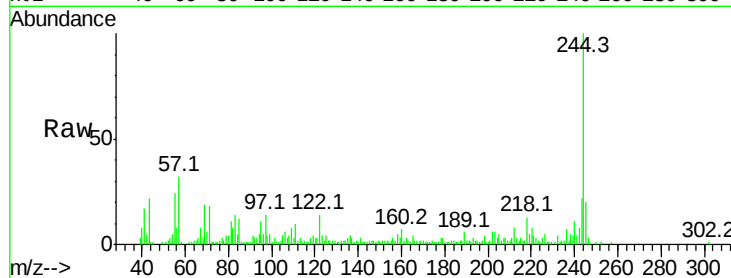
Tot Ion:244 Resp: 48611

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

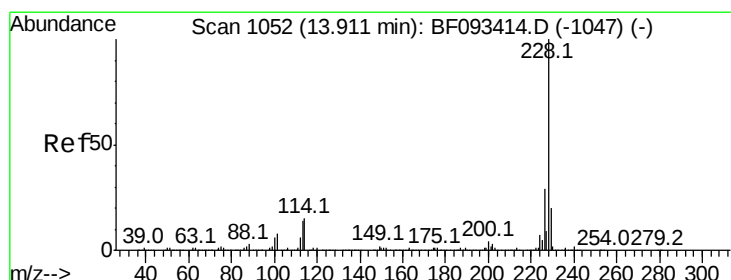
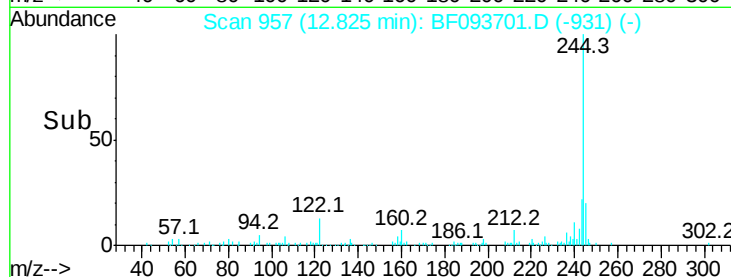
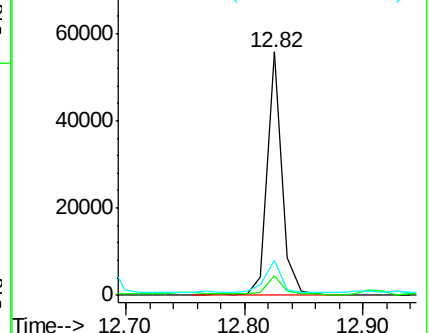
122 14.4 11.4 17.2



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



#80

Benzo(a)anthracene

Concen: 25.51 ng m

RT: 13.88 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

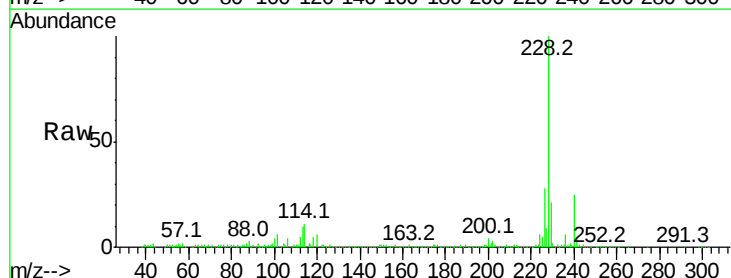
Tgt Ion:228 Resp: 452260

Ion Ratio Lower Upper

228 100

226 28.2 22.4 33.6

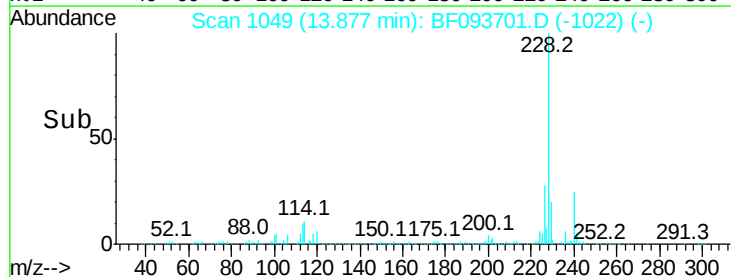
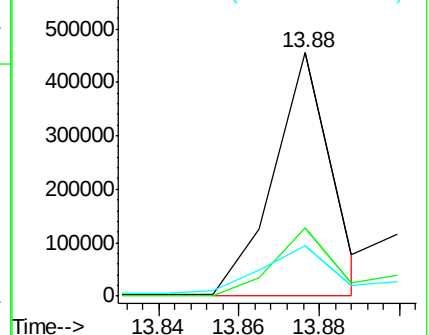
229 20.7 16.2 24.4

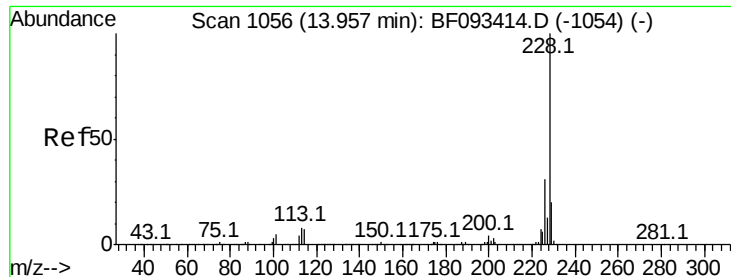


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 27.14 ng/mL

RT: 13.91 min Scan# 1052

Delta R.T. -0.00 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

Instrument :

BNA_F

ClientSampleID :

E2-BB7-SSWDL

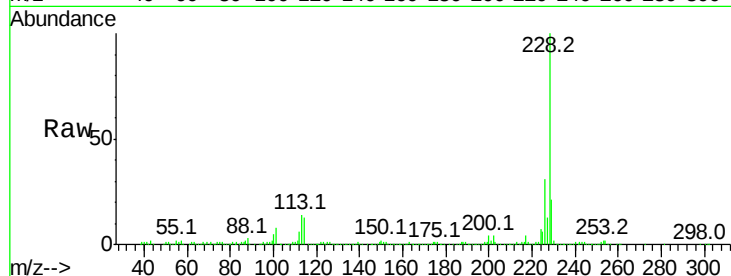
Tot Ion:228 Resp: 445087

Ion Ratio Lower Upper

228 100

226 31.4 25.4 38.0

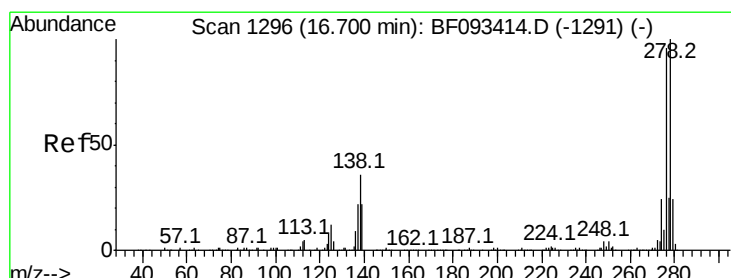
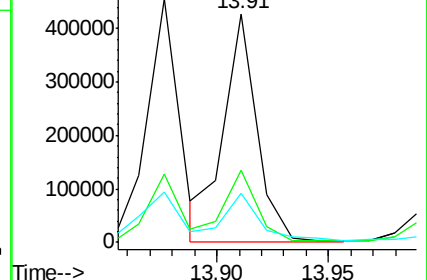
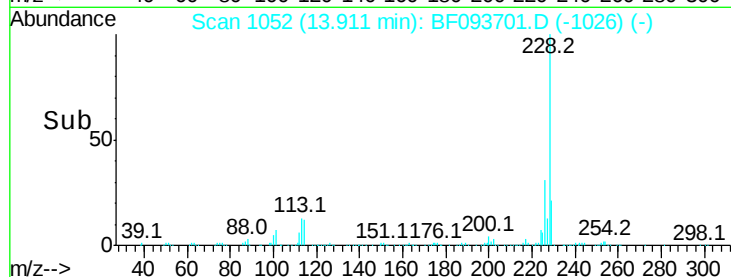
229 21.4 16.2 24.2



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.35 ng/mL

RT: 16.64 min Scan# 1291

Delta R.T. 0.02 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

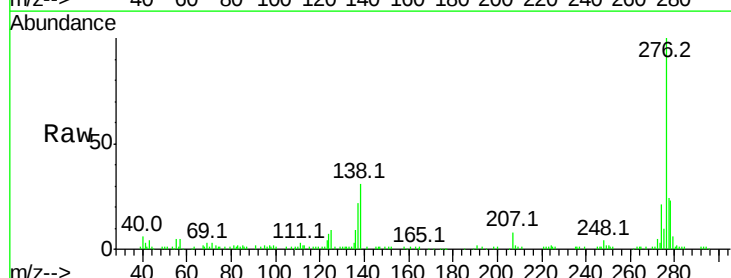
Tgt Ion:276 Resp: 142087

Ion Ratio Lower Upper

276 100

138 29.6 21.8 32.6

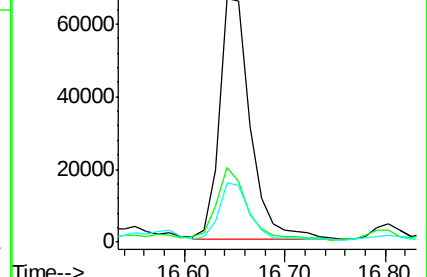
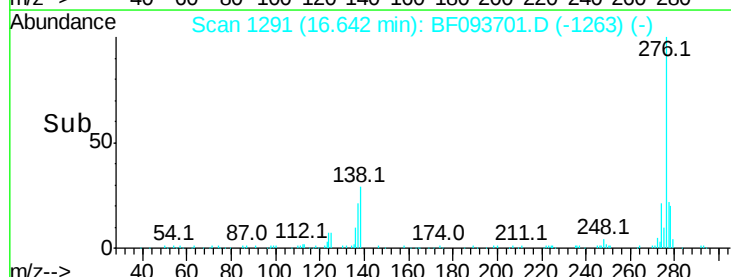
277 24.2 20.2 30.4

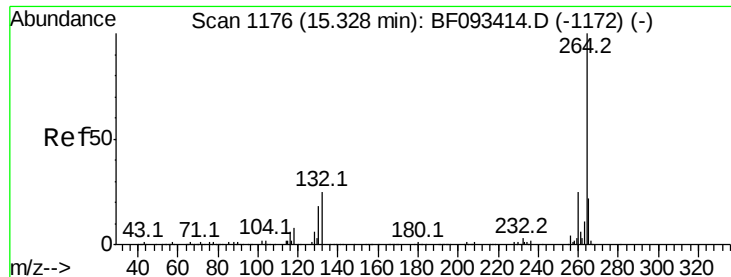


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

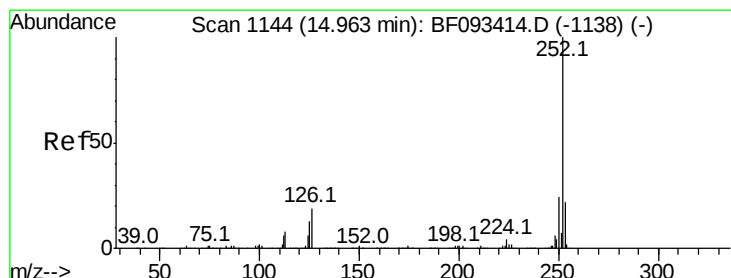
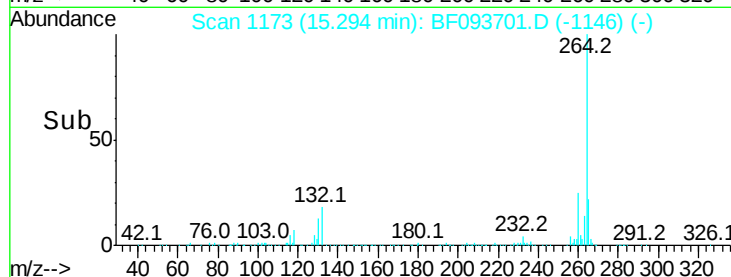
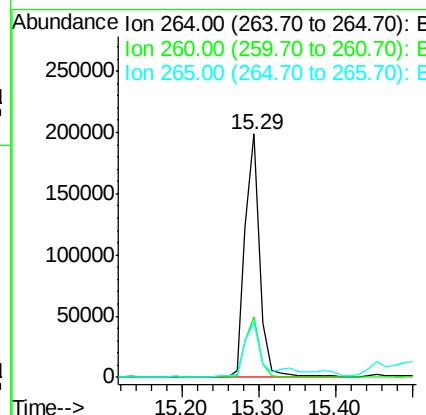
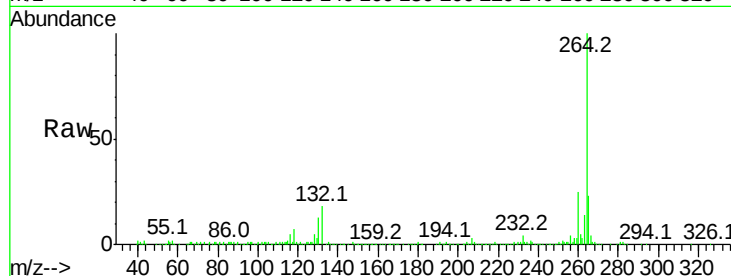




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.29 min Scan# 1173
Delta R.T. 0.01 min
Lab File: BF093701.D
Acq: 16 Mar 2017 9:59

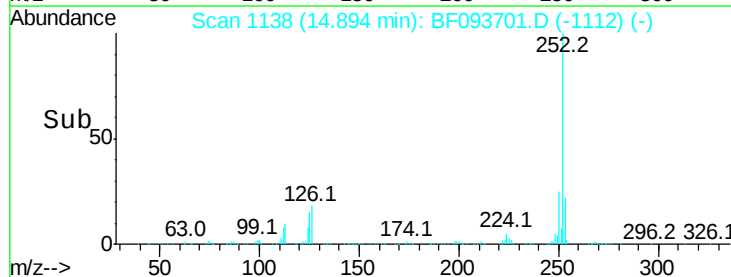
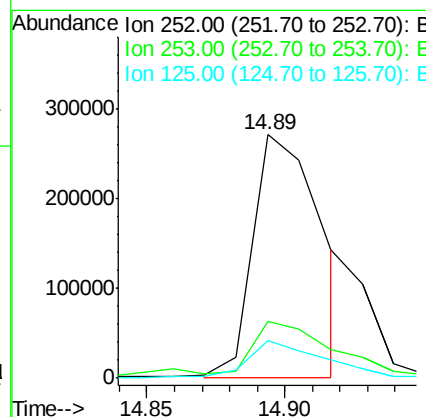
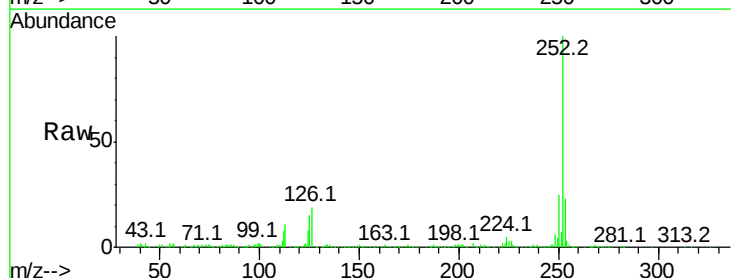
Instrument :
BNA_F
ClientSampleId :
E2-BB7-SSWDL

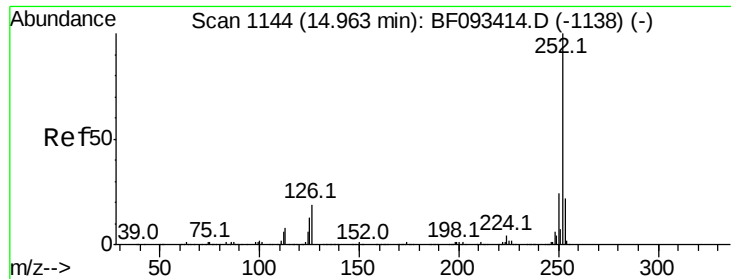
Tot Ion:264 Resp: 269271
Ion Ratio Lower Upper
264 100
260 24.9 19.2 28.8
265 22.7 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 28.46 ng m
RT: 14.89 min Scan# 1138
Delta R.T. -0.00 min
Lab File: BF093701.D
Acq: 16 Mar 2017 9:59

Tgt Ion:252 Resp: 466809
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.4
125 15.2 9.8 14.6#

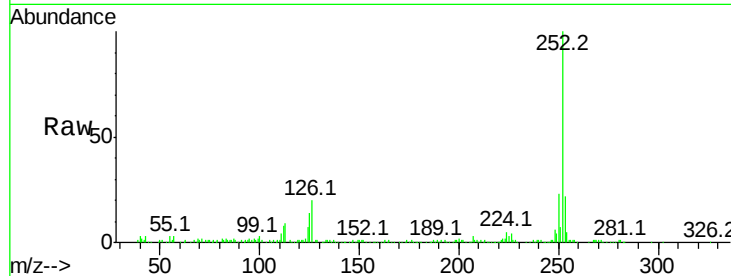




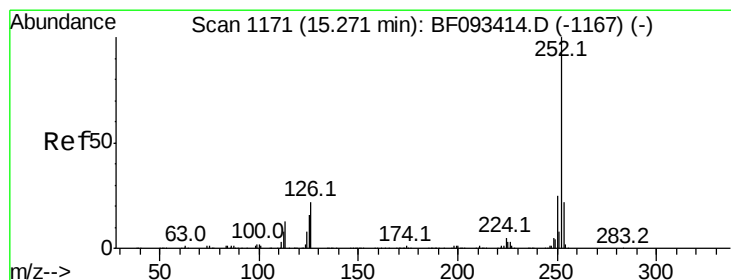
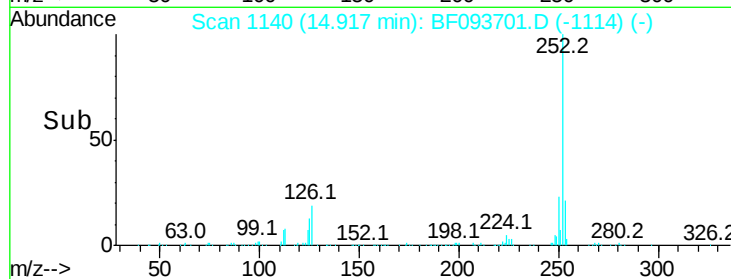
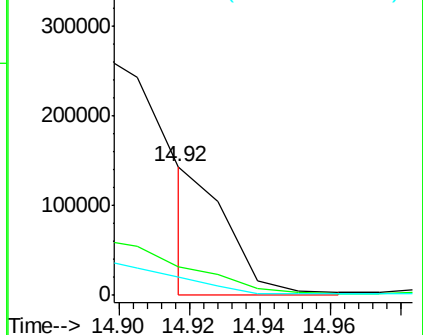
#88
Benzo(k)fluoranthene
Concen: 5.62 ng m
RT: 14.92 min Scan# 1140
Delta R.T. -0.00 min
Lab File: BF093701.D
Acq: 16 Mar 2017 9:59

Instrument :
BNA_F
ClientSampleId :
E2-BB7-SSWDL

Tot Ion:252 Resp: 88915
Ion Ratio Lower Upper
252 100
253 22.3 18.5 27.7
125 13.8 8.9 13.3#

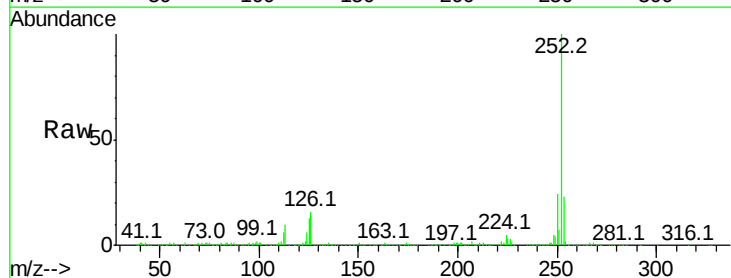


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

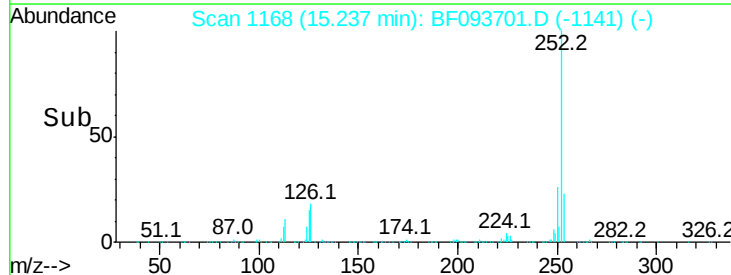
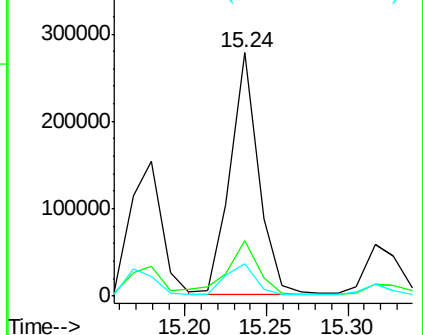


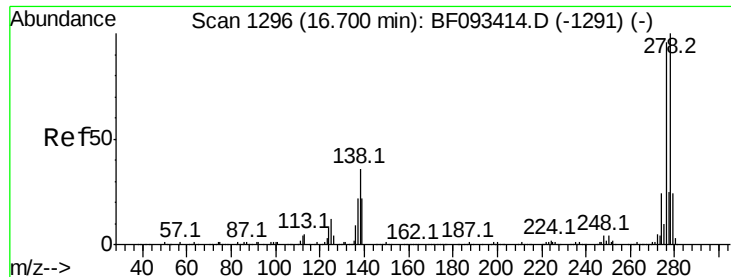
#89
Benzo(a)pyrene
Concen: 22.27 ng
RT: 15.24 min Scan# 1168
Delta R.T. 0.01 min
Lab File: BF093701.D
Acq: 16 Mar 2017 9:59

Tgt Ion:252 Resp: 333827
Ion Ratio Lower Upper
252 100
253 22.9 18.2 27.2
125 13.1 10.0 15.0



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





#90

Dibenzo(a,h)anthracene

Concen: 2.61 ng/mL

RT: 16.64 min Scan# 1291

Delta R.T. 0.02 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

Instrument :

BNA_F

ClientSampleId :

E2-BB7-SSWDL

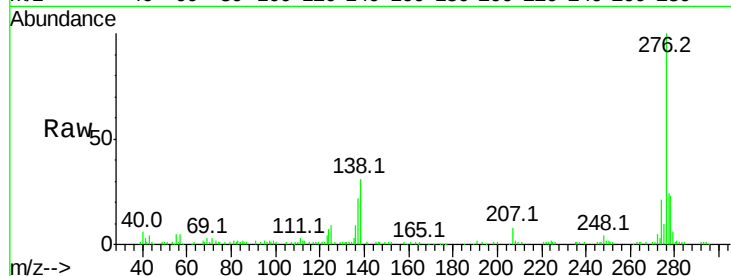
Tot Ion: 278 Resp: 32308

Ion Ratio Lower Upper

278 100

139 0.0 14.8 22.2#

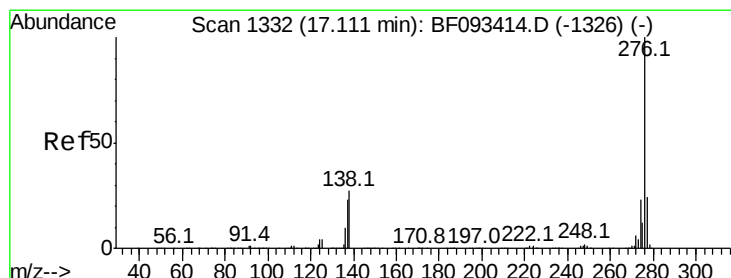
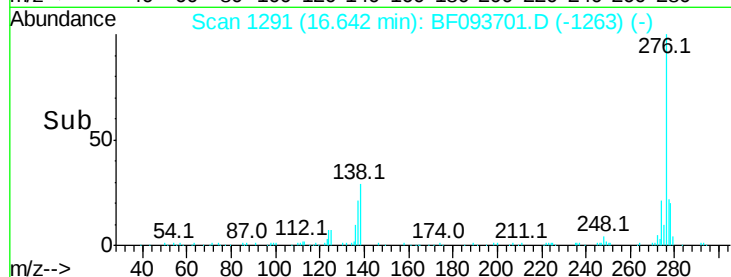
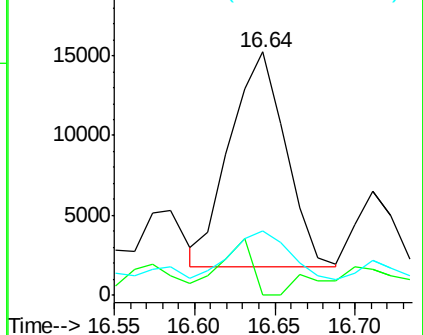
279 26.4 19.8 29.6



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 11.08 ng/mL

RT: 17.05 min Scan# 1327

Delta R.T. 0.03 min

Lab File: BF093701.D

Acq: 16 Mar 2017 9:59

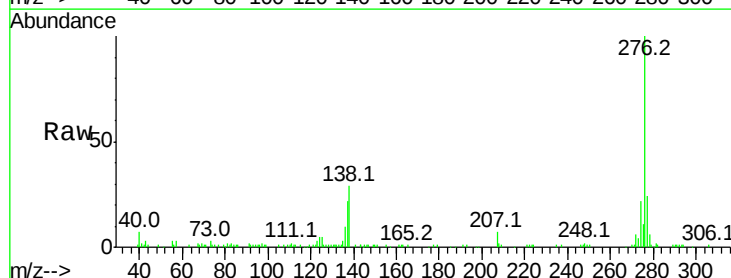
Tgt Ion: 276 Resp: 141044

Ion Ratio Lower Upper

276 100

277 24.5 19.2 28.8

138 28.6 16.0 24.0#



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

