

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030817\
 Data File : BF093448.D
 Acq On : 9 Mar 2017 00:18
 Operator : SJ/MA
 Sample : I2106-05
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413B

Quant Time: Mar 09 00:43:30 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 07 15:55:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	173445	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	568605	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	236416	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	322145	20.00	ng	0.01
75) Chrysene-d12	13.95	240	249262	20.00	ng	0.02
86) Perylene-d12	15.37	264	244117	20.00	ng	0.05

System Monitoring Compounds

5) 2-Fluorophenol	5.36	112	851500	81.71	ng	0.01
7) Phenol-d6	6.42	99	1179249	89.73	ng	0.01
23) Nitrobenzene-d5	7.34	82	699003	68.21	ng	0.00
41) 2,4,6-Tribromophenol	10.61	330	121933	79.16	ng	0.01
44) 2-Fluorobiphenyl	9.13	172	888940	69.94	ng	0.00
78) Terphenyl-d14	12.88	244	451542	47.10	ng	0.01

Target Compounds

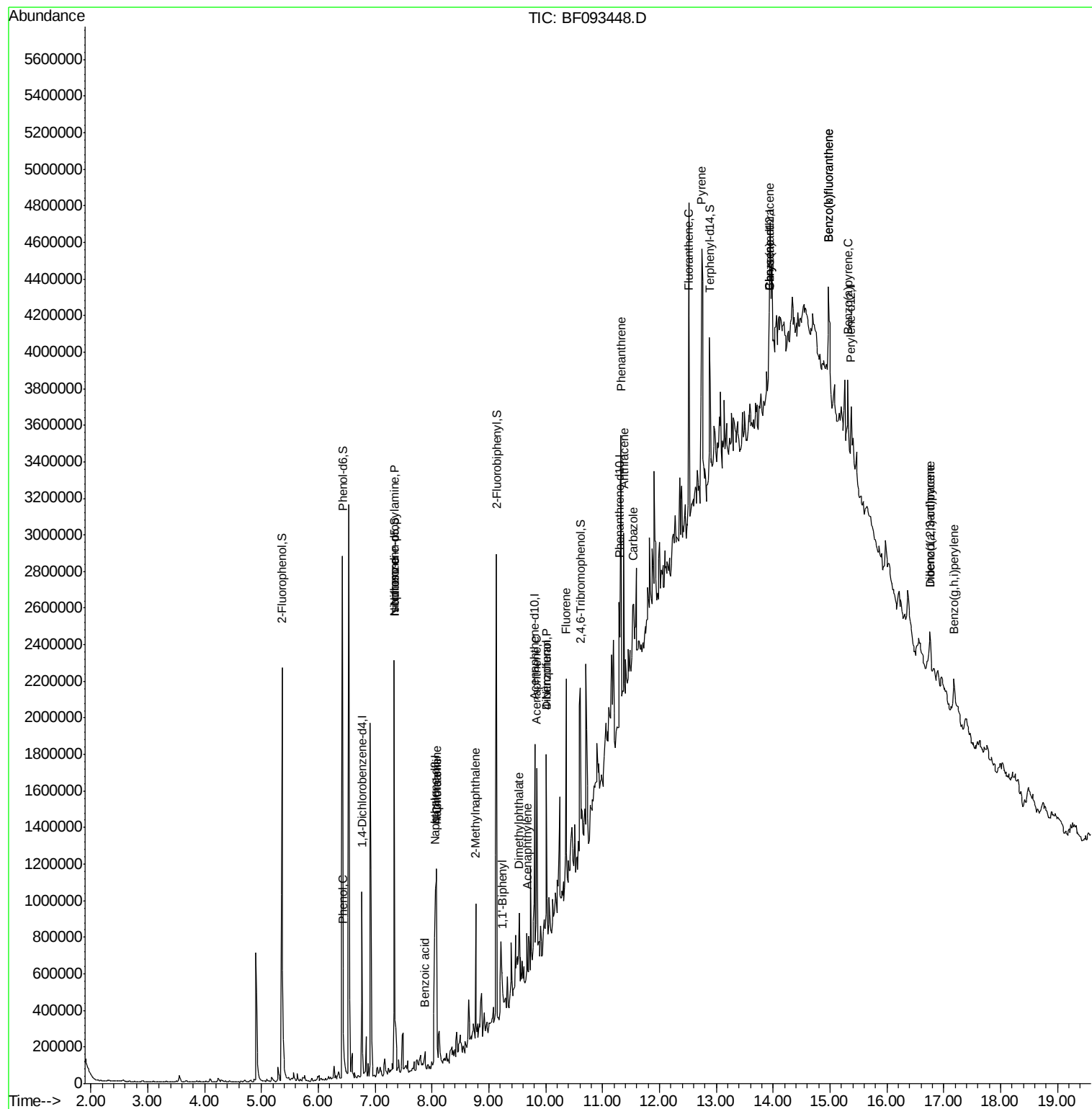
						Qvalue
10) Phenol	6.44	94	71022	4.41	ng	79
19) n-Nitroso-di-n-propylamine	7.34	70	99619	11.03	ng	# 81
25) Isophorone	7.34	82	616243	29.82	ng	# 65
31) Naphthalene	8.08	128	655283	23.00	ng	98
32) Benzoic acid	7.88	122	17681	3.98	ng	# 25
33) 4-Chloroaniline	8.08	127	88209	7.63	ng	# 41
37) 2-Methylnaphthalene	8.77	142	200830	11.08	ng	97
45) 1,1'-Biphenyl	9.24	154	93123	5.41	ng	97
48) Acenaphthylene	9.67	152	54923	2.53	ng	93
49) Dimethylphthalate	9.53	163	95276	6.08	ng	99
51) Acenaphthene	9.84	154	197367	15.35	ng	97
54) Dibenzofuran	10.01	168	412458	25.63	ng	94
55) 4-Nitrophenol	10.01	139	144519	72.01	ng	# 10
57) Fluorene	10.36	166	292512	21.45	ng	97
70) Phenanthrene	11.33	178	909401	49.46	ng	98
71) Anthracene	11.37	178	451642	24.28	ng	99
72) Carbazole	11.53	167	81138	4.64	ng	# 85
74) Fluoranthene	12.52	202	1185944	66.77	ng	100
77) Pyrene	12.74	202	1060500	58.50	ng	99
80) Benzo(a)anthracene	13.95	228	509672	34.62	ng	# 93
82) Chrysene	13.95	228	509672	37.42	ng	# 95
85) Indeno(1,2,3-cd)pyrene	16.76	276	151842	13.32	ng	99
87) Benzo(b)fluoranthene	14.97	252	602480	40.52	ng	# 89
88) Benzo(k)fluoranthene	14.97	252	602480	42.02	ng	# 89
89) Benzo(a)pyrene	15.32	252	288992	21.27	ng	# 85
90) Dibenzo(a,h)anthracene	16.76	278	39847	3.54	ng	# 31
91) Benzo(g,h,i)perylene	17.18	276	140493	12.18	ng	# 84

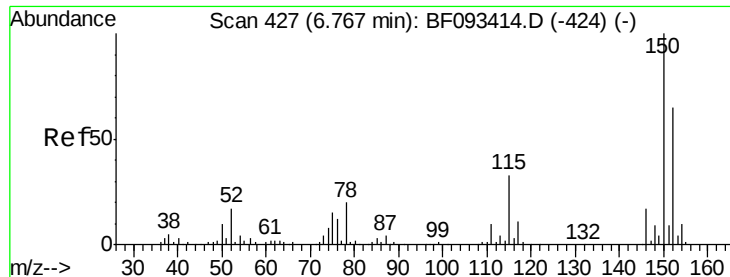
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 427

Delta R.T. -0.00 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

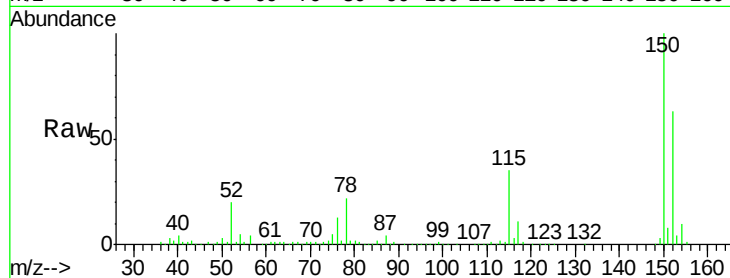
Tgt Ion:152 Resp: 173445

Ion Ratio Lower Upper

152 100

150 157.7 124.9 187.3

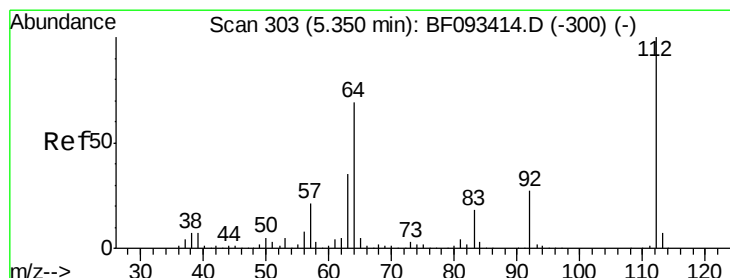
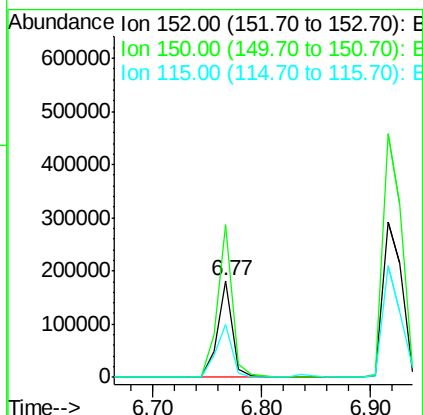
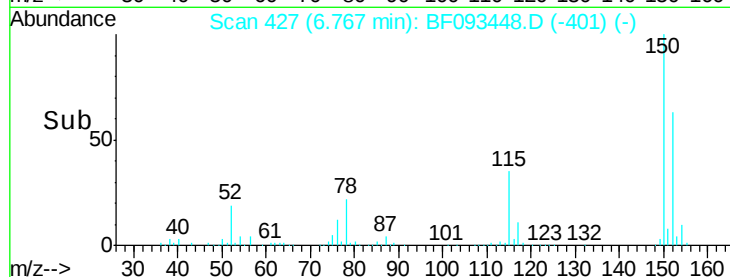
115 54.9 46.0 69.0



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: 81.71 ng

RT: 5.36 min Scan# 304

Delta R.T. 0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

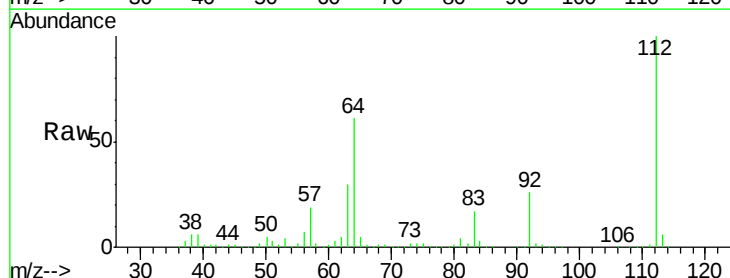
Tgt Ion:112 Resp: 851500

Ion Ratio Lower Upper

112 100

64 60.8 46.1 69.1

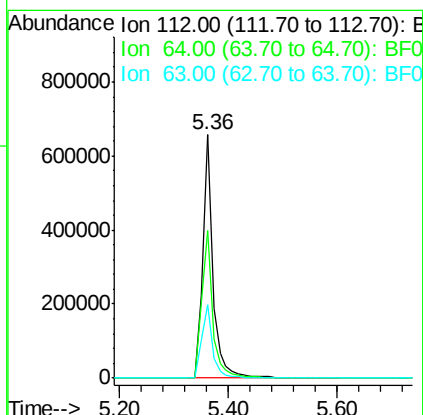
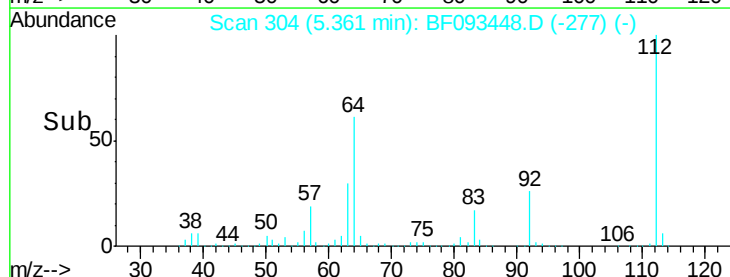
63 30.2 23.8 35.6

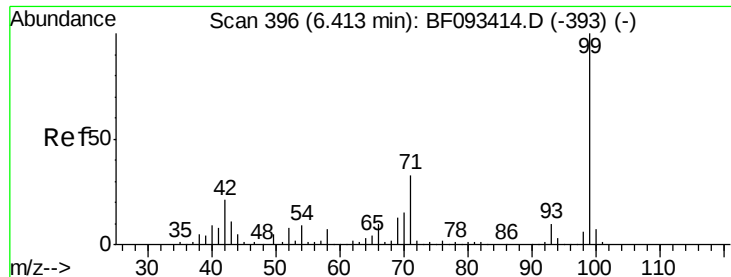


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 89.73 ng

RT: 6.42 min Scan# 397

Delta R.T. 0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

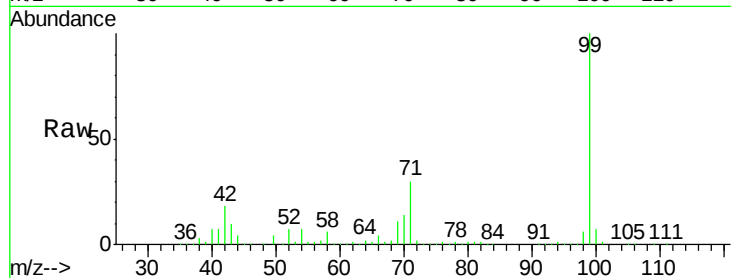
Tgt Ion: 99 Resp: 1179249

Ion Ratio Lower Upper

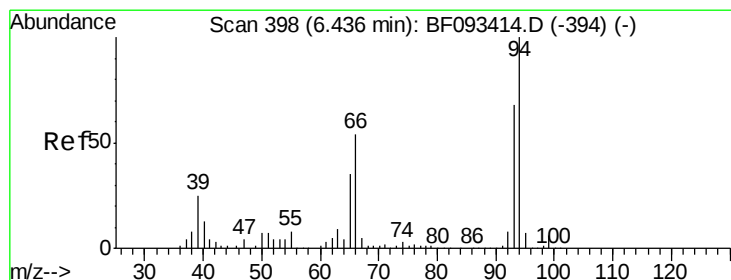
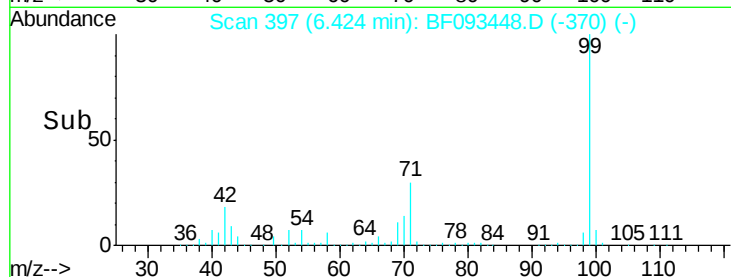
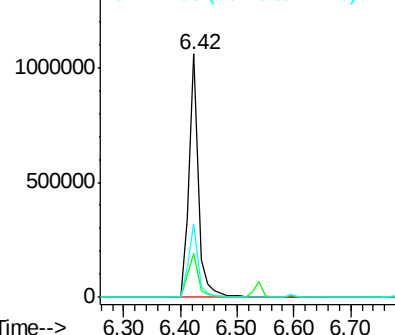
99 100

42 18.3 15.6 23.4

71 30.1 27.5 41.3



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



#10

Phenol

Concen: 4.41 ng

RT: 6.44 min Scan# 398

Delta R.T. -0.00 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

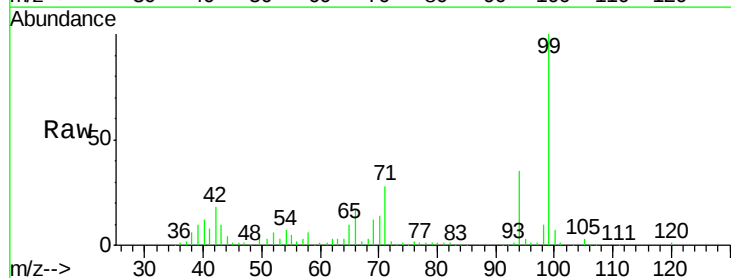
Tgt Ion: 94 Resp: 71022

Ion Ratio Lower Upper

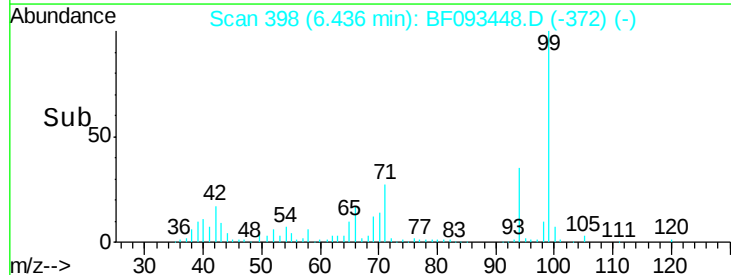
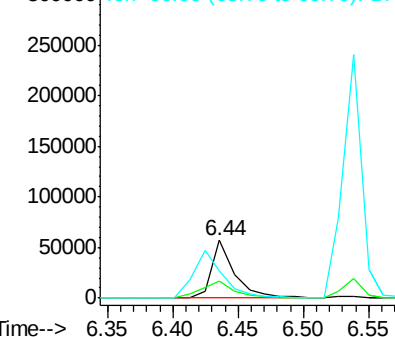
94 100

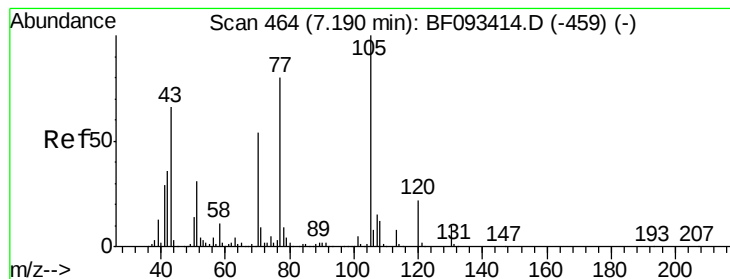
65 28.8 21.4 61.4

66 47.1 44.0 84.0



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 11.03 ng

RT: 7.34 min Scan# 477

Delta R.T. 0.15 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

Tgt Ion: 70 Resp: 99619

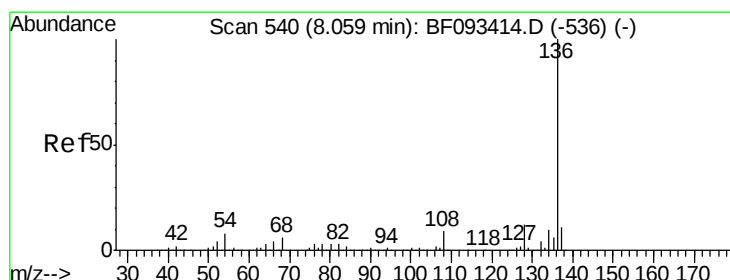
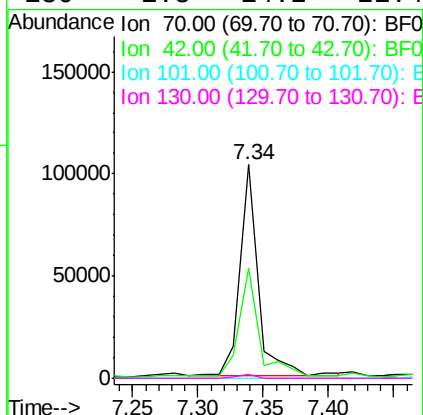
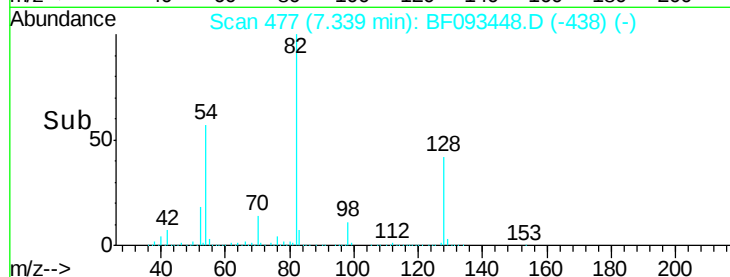
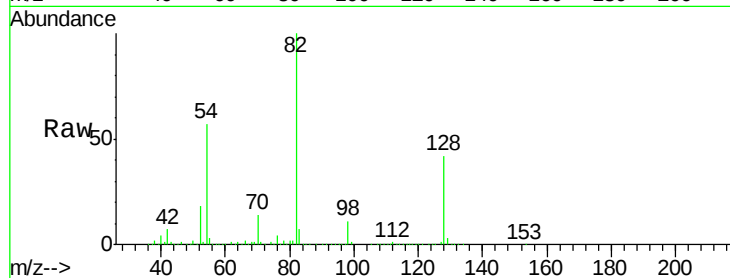
Ion Ratio Lower Upper

70 100

42 51.7 49.4 74.0

101 0.0 7.4 11.2#

130 1.8 14.2 21.4#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 540

Delta R.T. -0.00 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Tgt Ion: 136 Resp: 568605

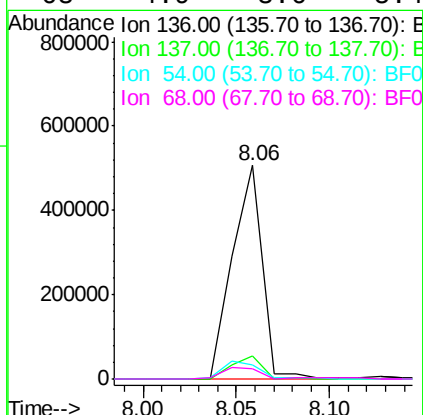
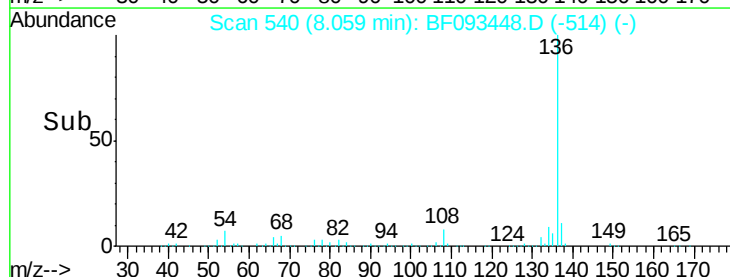
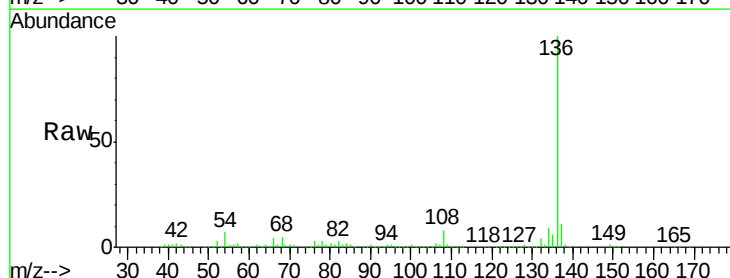
Ion Ratio Lower Upper

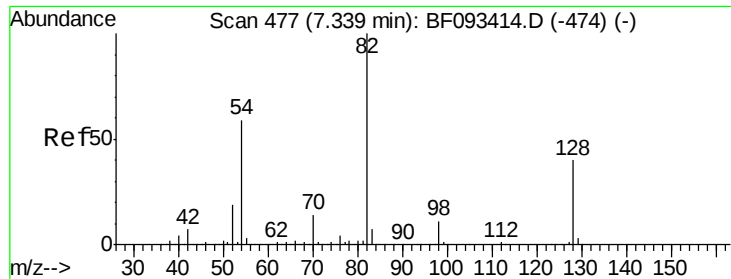
136 100

137 10.7 8.4 12.6

54 6.9 4.5 6.7#

68 4.9 3.6 5.4

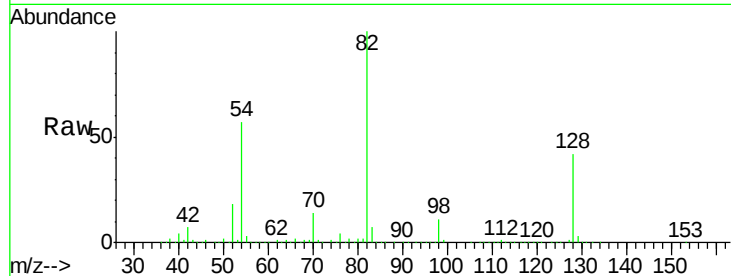




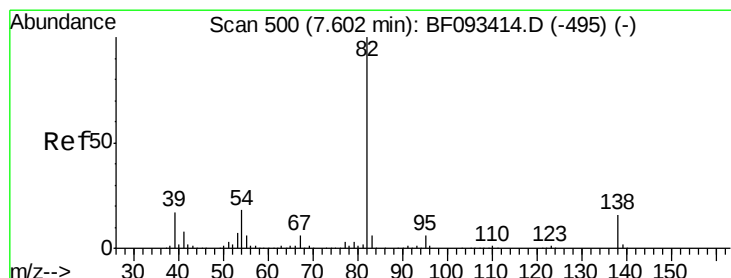
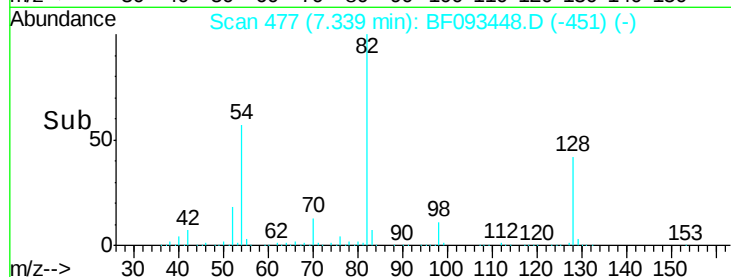
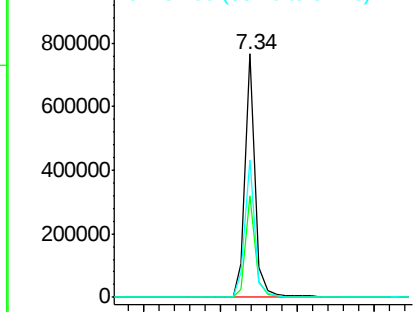
#23
 Nitrobenzene-d5
 Concen: 68.21 ng
 RT: 7.34 min Scan# 477
 Delta R.T. -0.00 min
 Lab File: BF093448.D
 Acq: 9 Mar 2017 00:18

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413B

Tgt Ion: 82 Resp: 699003
 Ion Ratio Lower Upper
 82 100
 128 41.7 34.6 52.0
 54 56.7 39.5 59.3

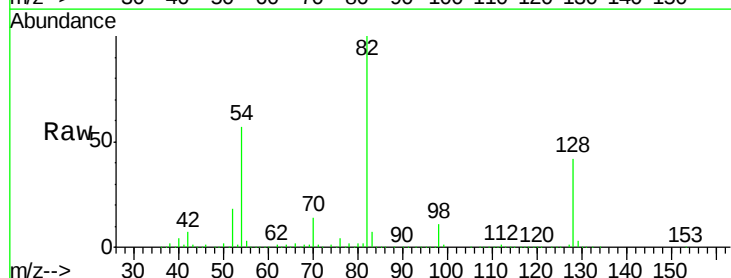


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

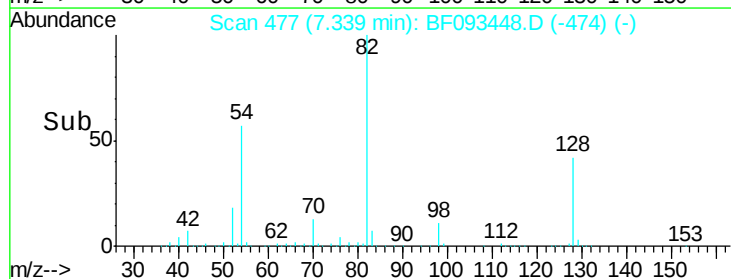
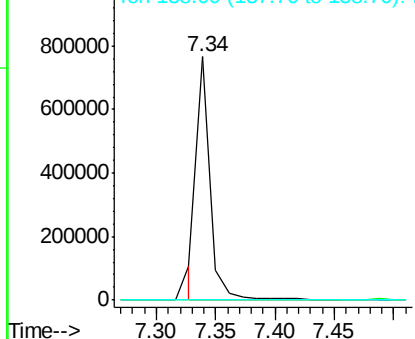


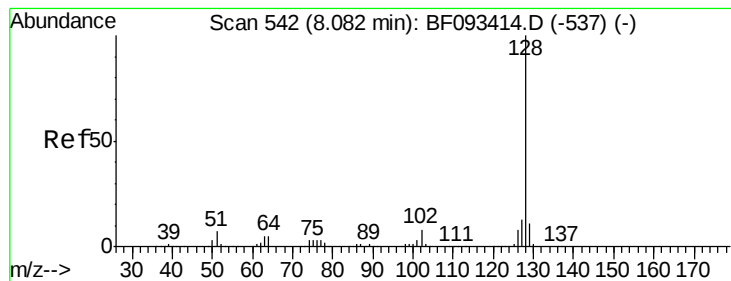
#25
 Isophorone
 Concen: 29.82 ng
 RT: 7.34 min Scan# 477
 Delta R.T. -0.26 min
 Lab File: BF093448.D
 Acq: 9 Mar 2017 00:18

Tgt Ion: 82 Resp: 616243
 Ion Ratio Lower Upper
 82 100
 95 0.2 5.6 8.4#
 138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 95.00 (94.70 to 95.70): BF0
 Ion 138.00 (137.70 to 138.70): BF0





#31

Naphthalene

Concen: 23.00 ng

RT: 8.08 min Scan# 542

Delta R.T. -0.00 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

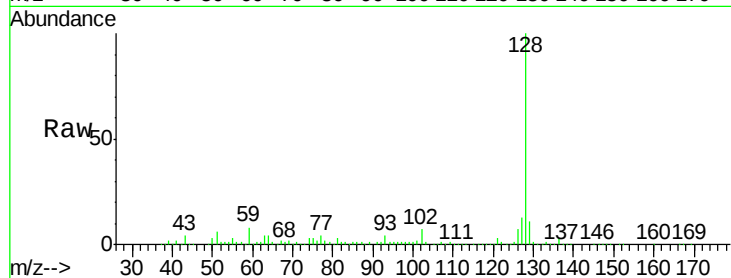
Tgt Ion:128 Resp: 655283

Ion Ratio Lower Upper

128 100

129 10.9 9.5 14.3

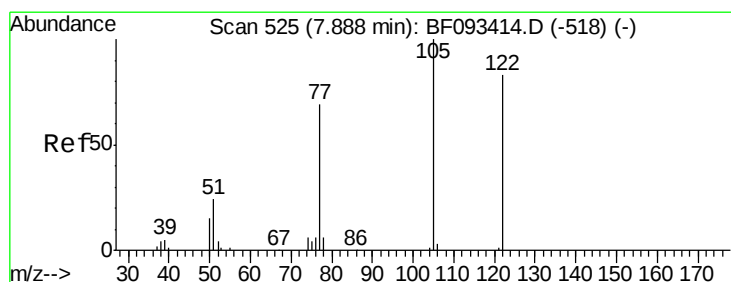
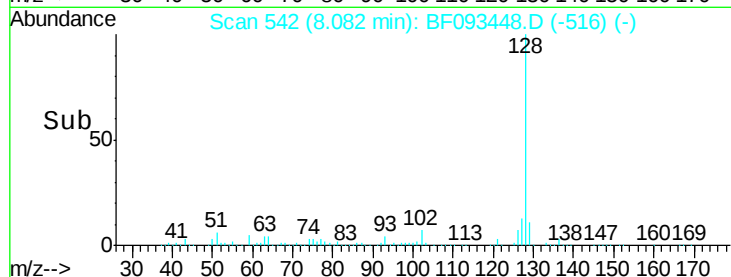
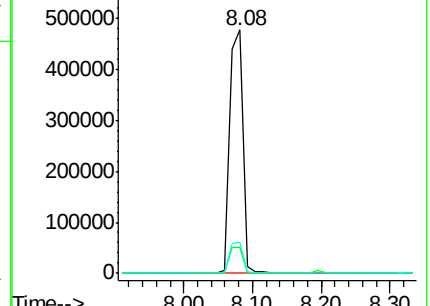
127 12.9 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 3.98 ng

RT: 7.88 min Scan# 524

Delta R.T. -0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

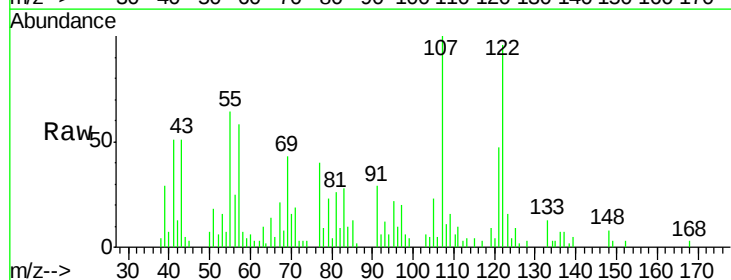
Tgt Ion:122 Resp: 17681

Ion Ratio Lower Upper

122 100

105 23.6 107.2 147.2#

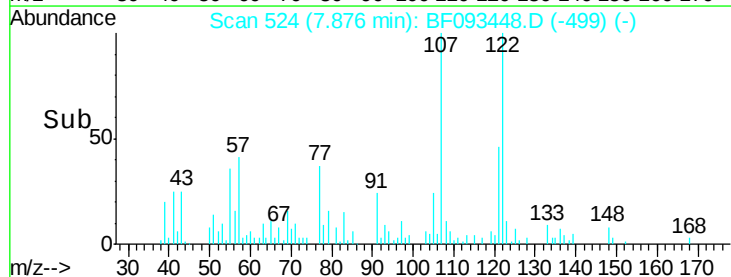
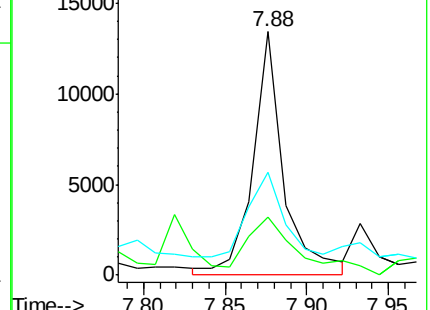
77 42.1 74.5 114.5#

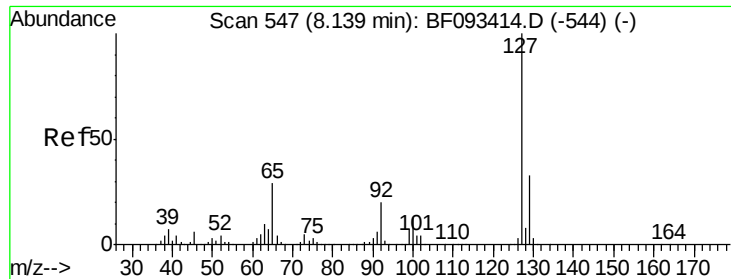


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

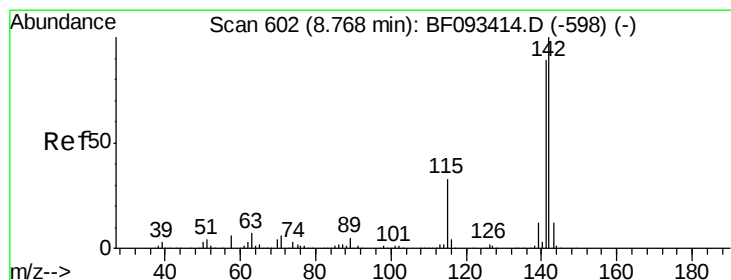
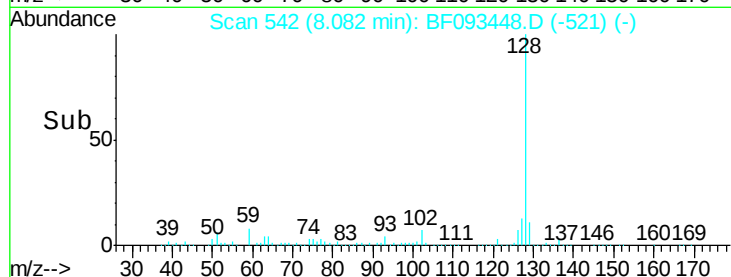
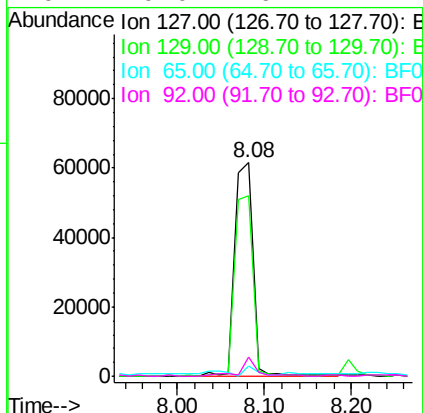
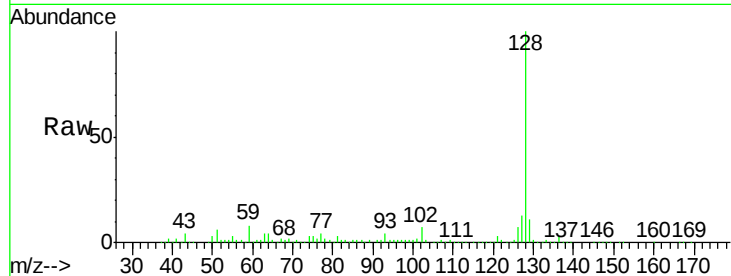




#33
4-Chloroaniline
Concen: 7.63 ng
RT: 8.08 min Scan# 542
Delta R.T. -0.06 min
Lab File: BF093448.D
Acq: 9 Mar 2017 00:18

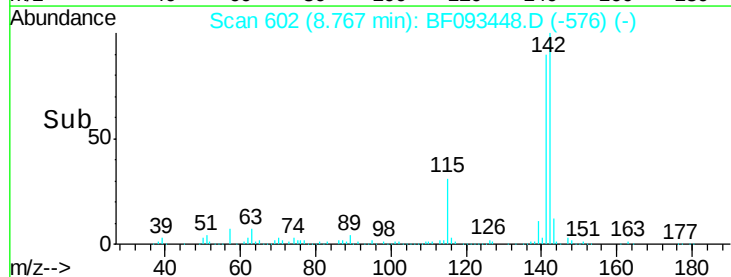
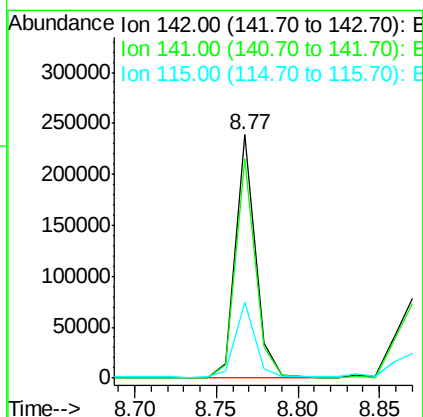
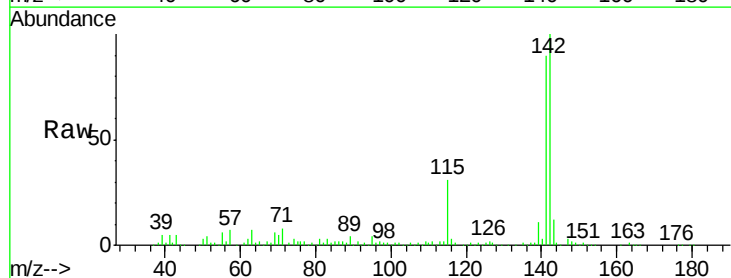
Instrument :
BNA_F
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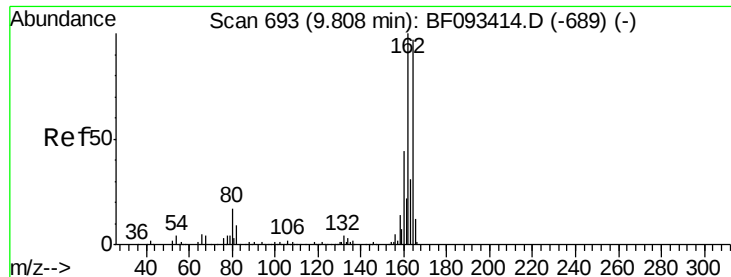
Tgt Ion:	127	Resp:	88209
Ion	Ratio	Lower	Upper
127	100		
129	84.4	26.3	39.5#
65	5.0	25.8	38.8#
92	9.0	16.1	24.1#



#37
2-Methylnaphthalene
Concen: 11.08 ng
RT: 8.77 min Scan# 602
Delta R.T. -0.00 min
Lab File: BF093448.D
Acq: 9 Mar 2017 00:18

Tgt Ion:	142	Resp:	200830
Ion	Ratio	Lower	Upper
142	100		
141	90.3	71.0	106.6
115	31.2	28.3	42.5





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 693

Delta R.T. -0.00 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

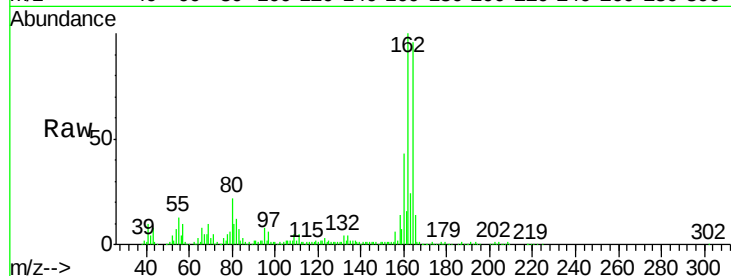
Tgt Ion:164 Resp: 236416

Ion Ratio Lower Upper

164 100

162 103.7 80.2 120.2

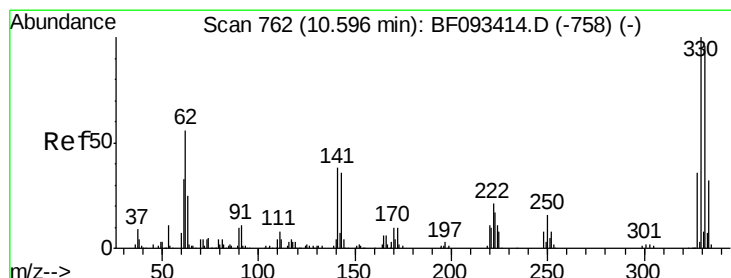
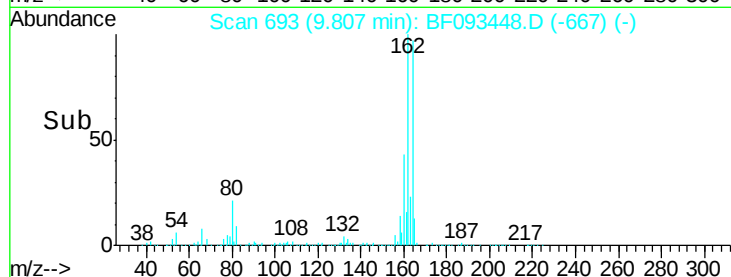
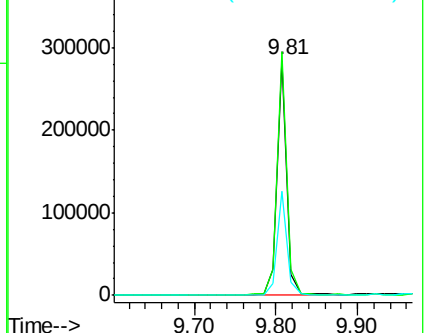
160 44.2 36.9 55.3



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: 79.16 ng

RT: 10.61 min Scan# 763

Delta R.T. 0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

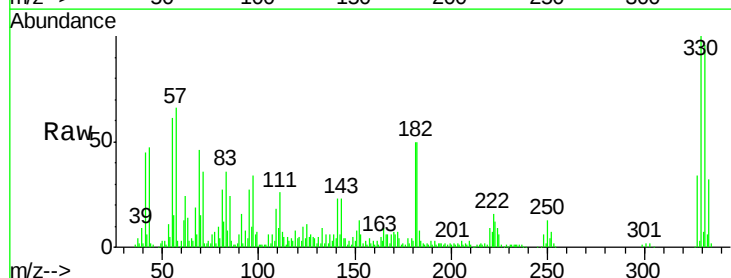
Tgt Ion:330 Resp: 121933

Ion Ratio Lower Upper

330 100

332 97.0 77.4 116.2

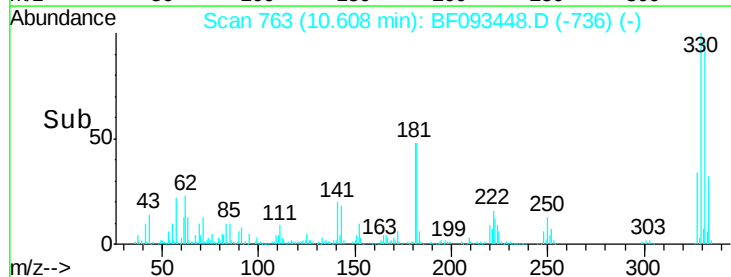
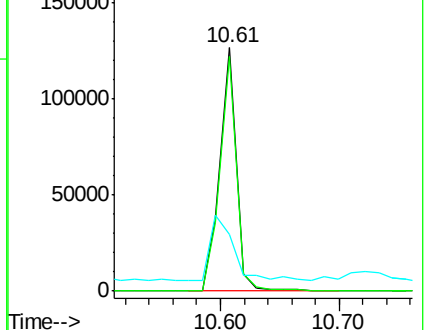
141 38.3 34.1 51.1

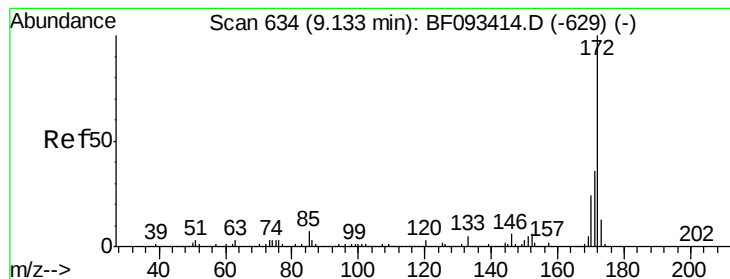


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 69.94 ng

RT: 9.13 min Scan# 634

Delta R.T. -0.00 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

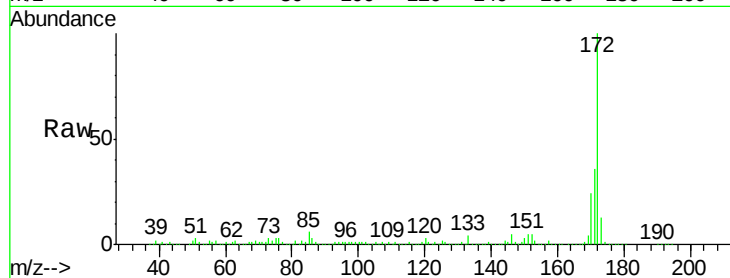
Tgt Ion:172 Resp: 888940

Ion Ratio Lower Upper

172 100

171 35.7 29.4 44.0

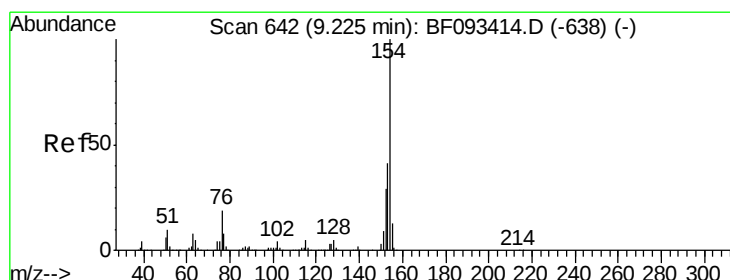
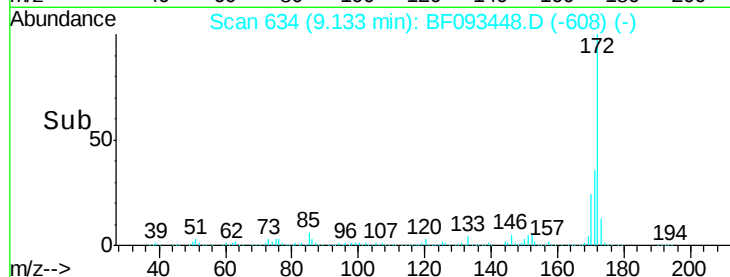
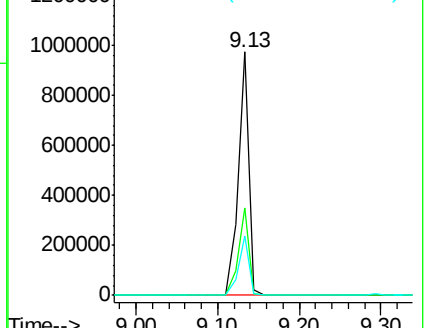
170 24.1 20.2 30.4



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



#45

1,1'-Biphenyl

Concen: 5.41 ng

RT: 9.24 min Scan# 643

Delta R.T. 0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

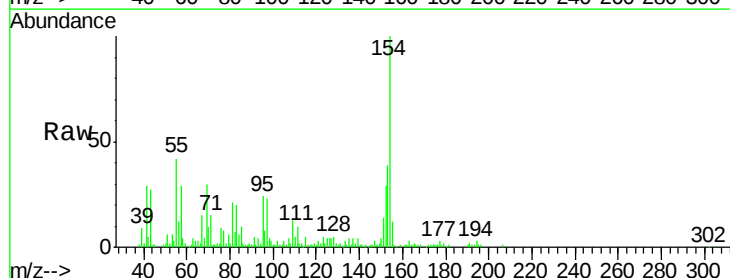
Tgt Ion:154 Resp: 93123

Ion Ratio Lower Upper

154 100

153 39.2 20.9 60.9

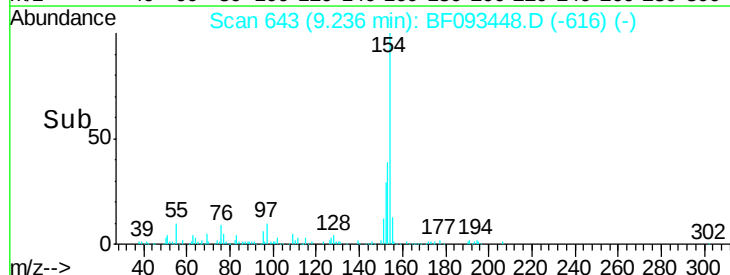
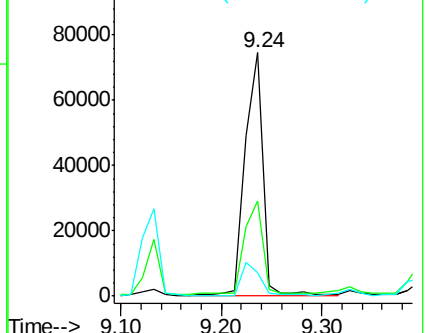
76 9.4 0.0 30.5

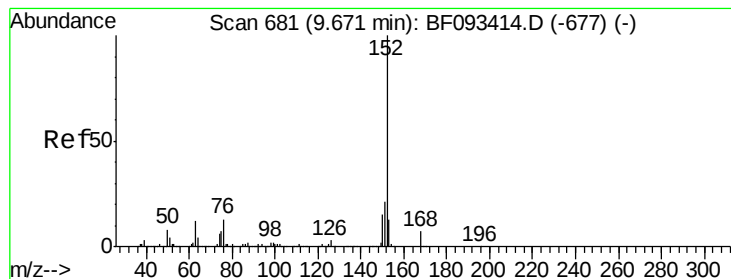


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0





#48

Acenaphthylene

Concen: 2.53 ng

RT: 9.67 min Scan# 681

Delta R.T. -0.00 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

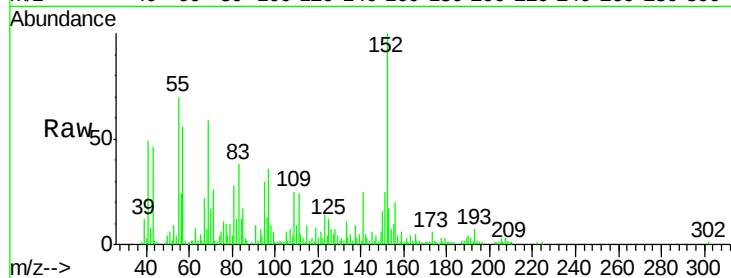
Tgt Ion:152 Resp: 54923

Ion Ratio Lower Upper

152 100

151 25.0 16.9 25.3

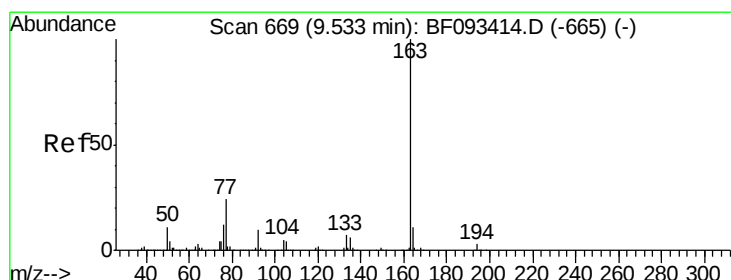
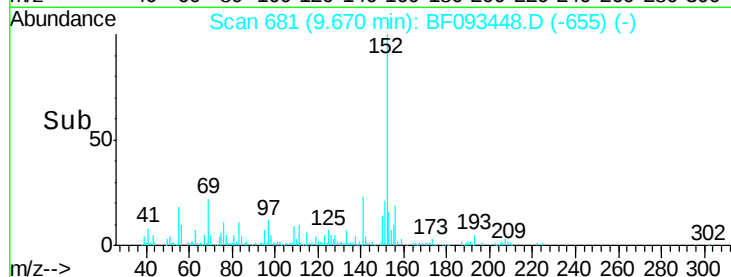
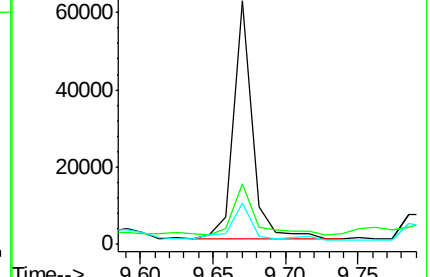
153 16.9 11.4 17.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 6.08 ng

RT: 9.53 min Scan# 669

Delta R.T. -0.00 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

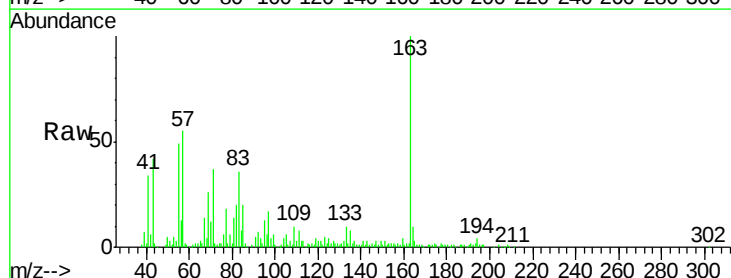
Tgt Ion:163 Resp: 95276

Ion Ratio Lower Upper

163 100

194 4.3 3.0 4.4

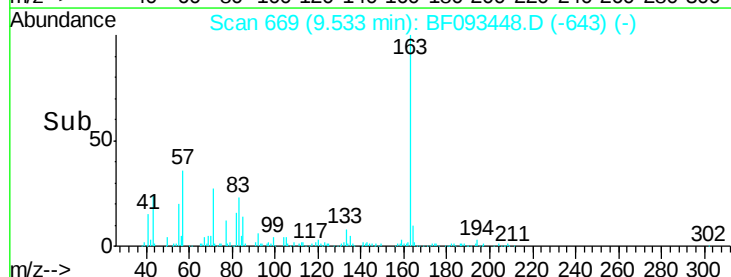
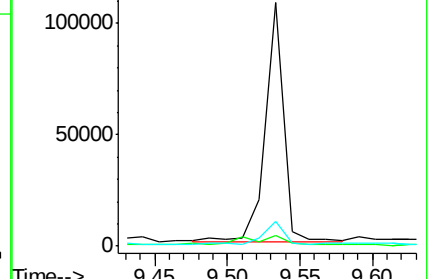
164 10.1 8.0 12.0

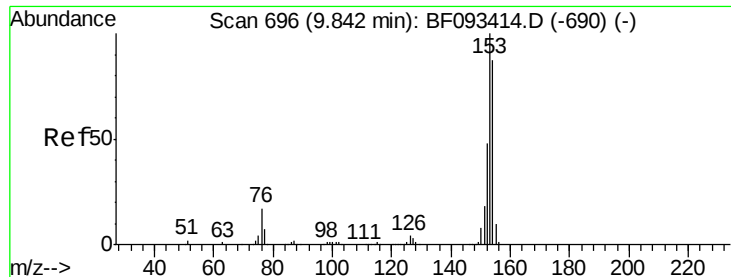


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 15.35 ng

RT: 9.84 min Scan# 696

Delta R.T. -0.00 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

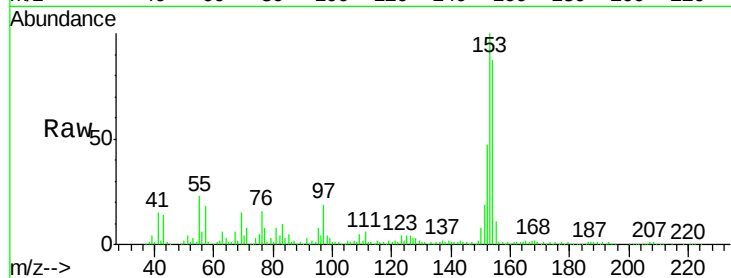
Tgt Ion:154 Resp: 197367

Ion Ratio Lower Upper

154 100

153 114.4 88.6 133.0

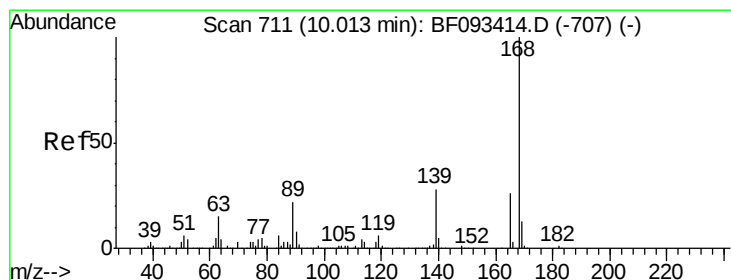
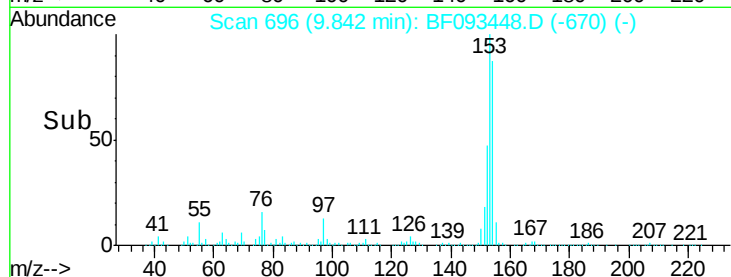
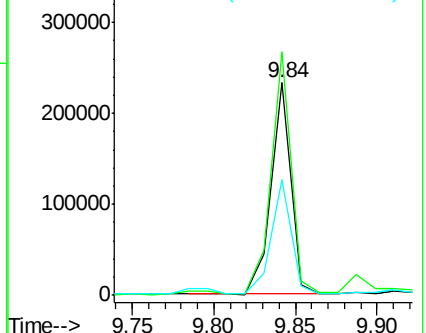
152 54.3 41.6 62.4



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: 25.63 ng

RT: 10.01 min Scan# 711

Delta R.T. -0.00 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

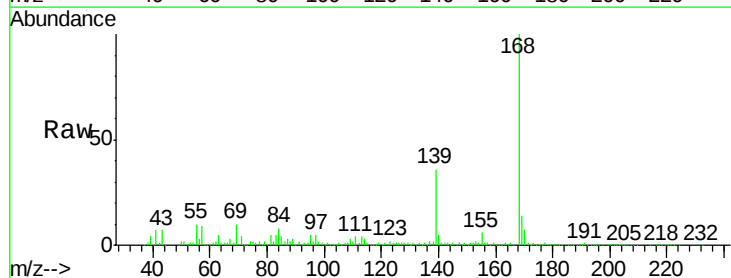
Tgt Ion:168 Resp: 412458

Ion Ratio Lower Upper

168 100

139 36.0 32.6 49.0

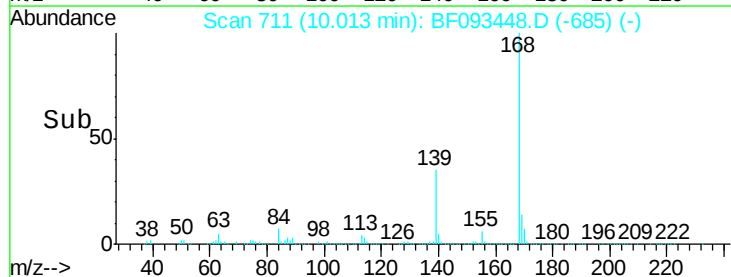
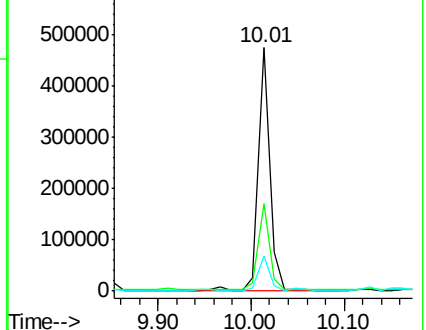
169 14.3 11.3 16.9

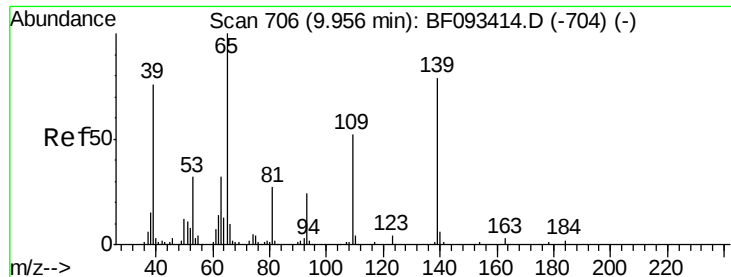


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

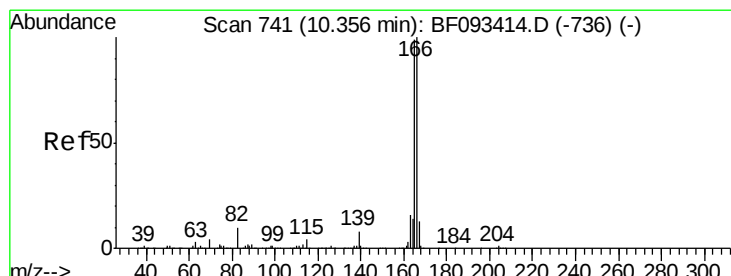
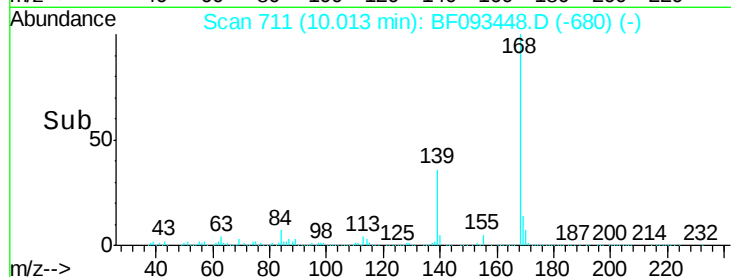
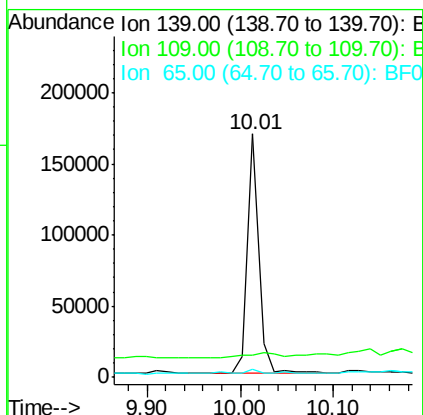
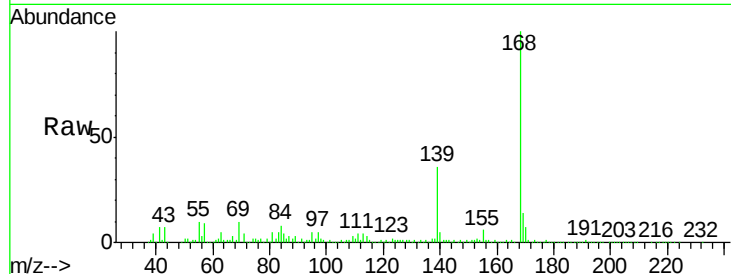




#55
4-Nitrophenol
Concen: 72.01 ng
RT: 10.01 min Scan# 711
Delta R.T. 0.06 min
Lab File: BF093448.D
Acq: 9 Mar 2017 00:18

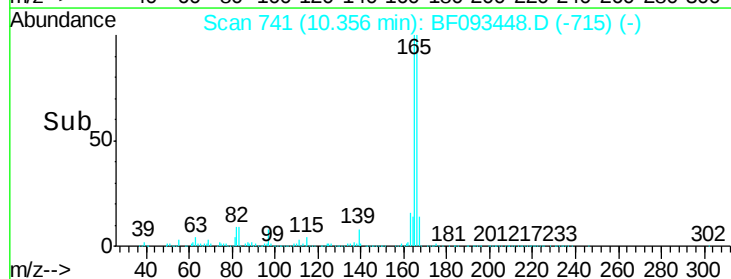
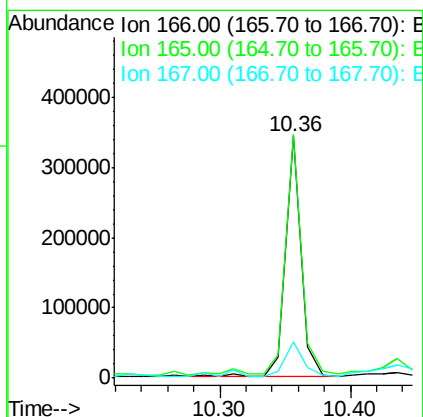
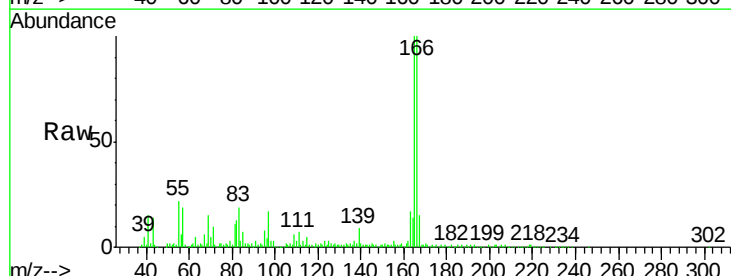
Instrument :
BNA_F
ClientSampleId :
HY-SB413B

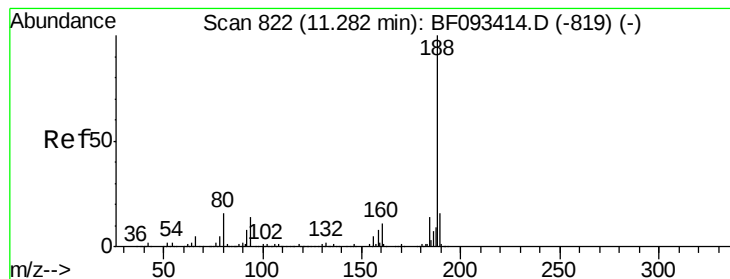
Tgt Ion:139 Resp: 144519
Ion Ratio Lower Upper
139 100
109 8.9 52.2 92.2#
65 3.3 85.8 125.8#



#57
Fluorene
Concen: 21.45 ng
RT: 10.36 min Scan# 741
Delta R.T. -0.00 min
Lab File: BF093448.D
Acq: 9 Mar 2017 00:18

Tgt Ion:166 Resp: 292512
Ion Ratio Lower Upper
166 100
165 100.5 77.8 116.8
167 14.7 10.8 16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.29 min Scan# 823

Delta R.T. 0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

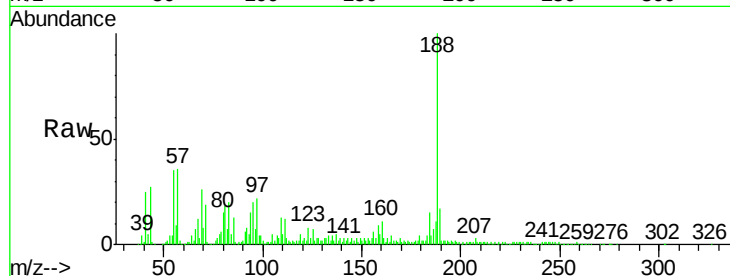
Tgt Ion:188 Resp: 322145

Ion Ratio Lower Upper

188 100

94 14.9 10.0 15.0

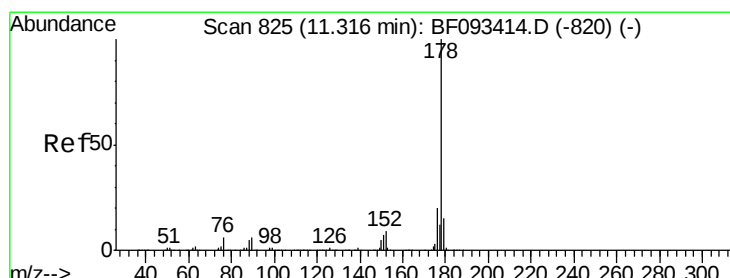
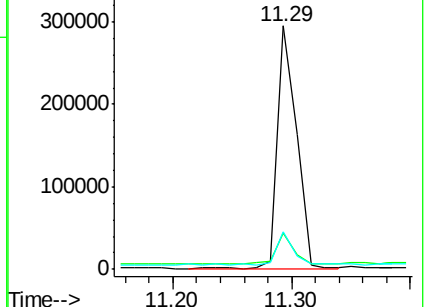
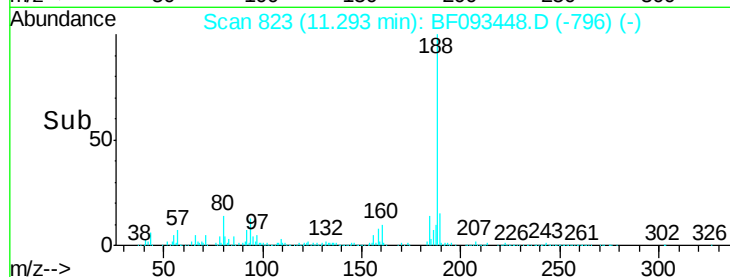
80 15.2 11.2 16.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 49.46 ng

RT: 11.33 min Scan# 826

Delta R.T. 0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

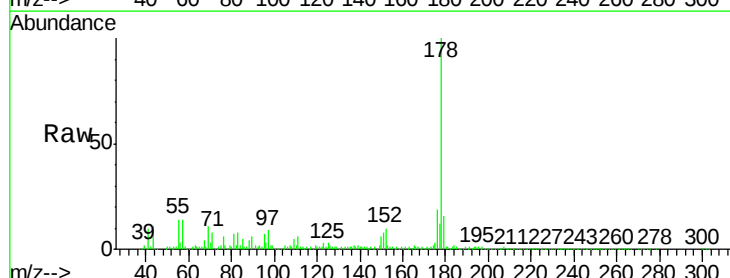
Tgt Ion:178 Resp: 909401

Ion Ratio Lower Upper

178 100

176 19.5 16.6 25.0

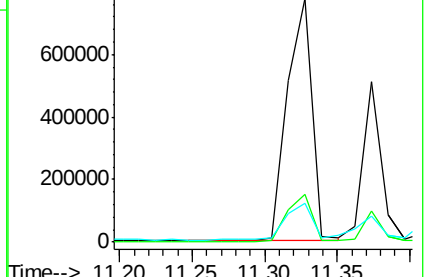
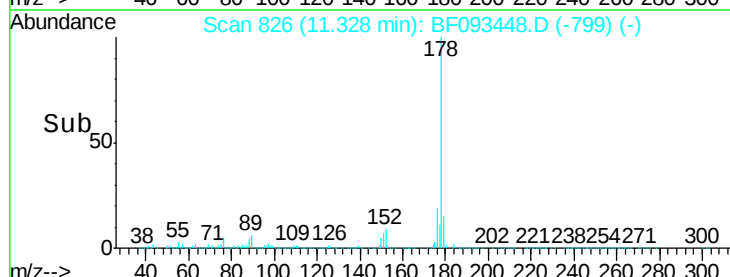
179 16.0 12.8 19.2

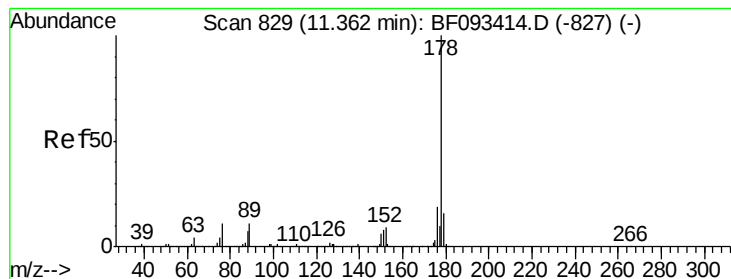


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 24.28 ng

RT: 11.37 min Scan# 830

Delta R.T. 0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

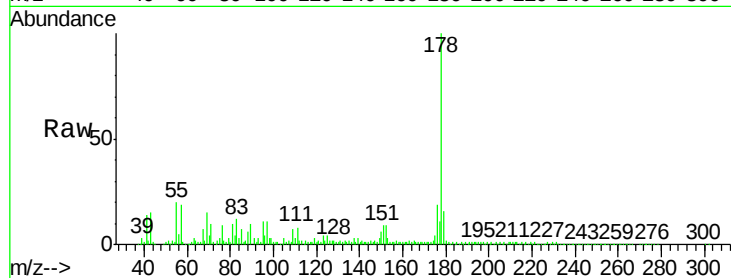
Tgt Ion:178 Resp: 451642

Ion Ratio Lower Upper

178 100

176 19.1 15.9 23.9

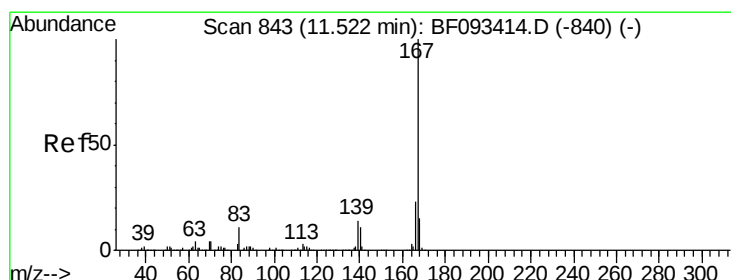
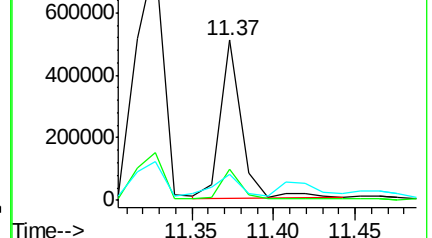
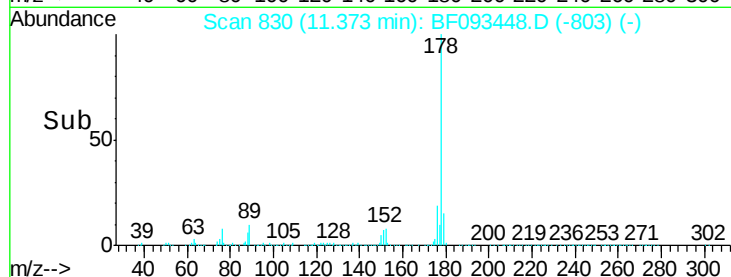
179 16.5 13.2 19.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 4.64 ng

RT: 11.53 min Scan# 844

Delta R.T. 0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

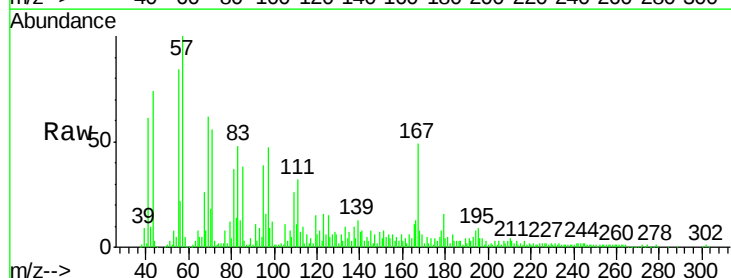
Tgt Ion:167 Resp: 81138

Ion Ratio Lower Upper

167 100

166 25.8 18.2 27.2

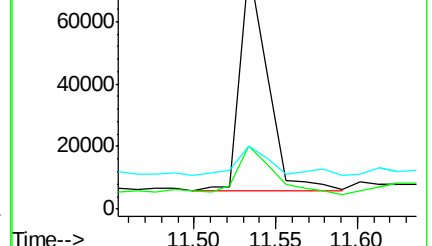
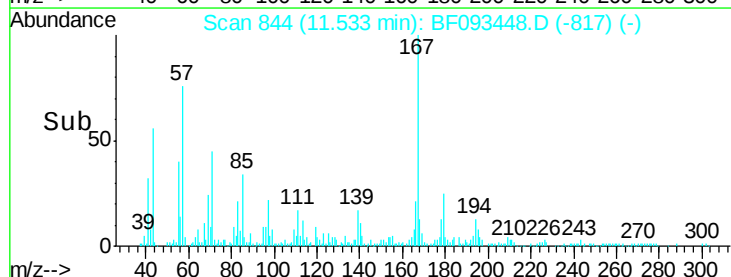
139 26.1 11.4 17.2#

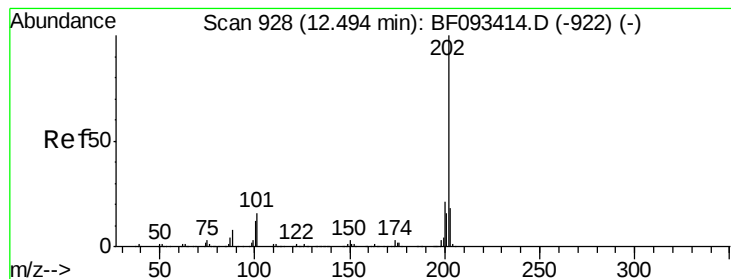


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 66.77 ng

RT: 12.52 min Scan# 930

Delta R.T. 0.02 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

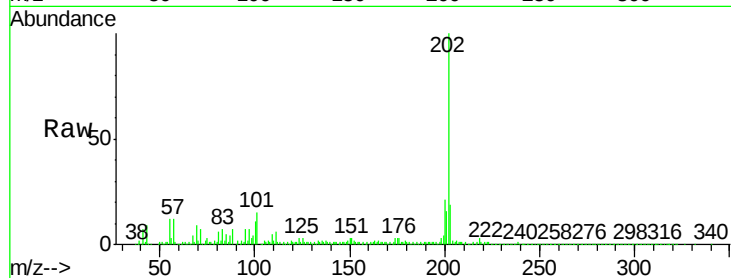
Tgt Ion:202 Resp: 1185944

Ion Ratio Lower Upper

202 100

101 14.9 0.0 34.6

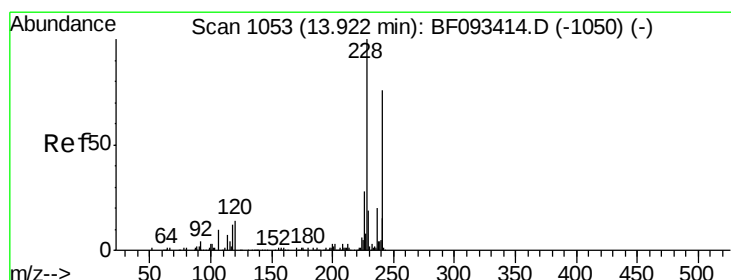
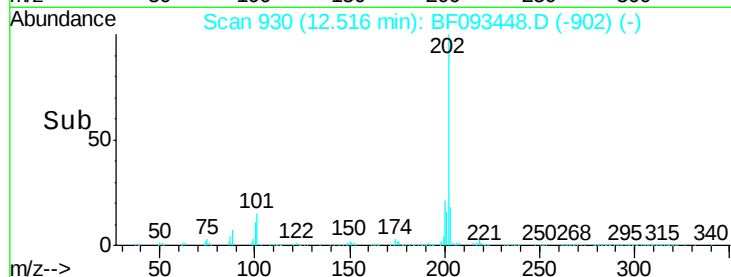
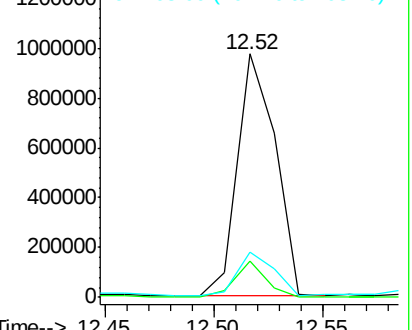
203 18.7 0.0 38.7



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: 13.95 min Scan# 1055

Delta R.T. 0.02 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

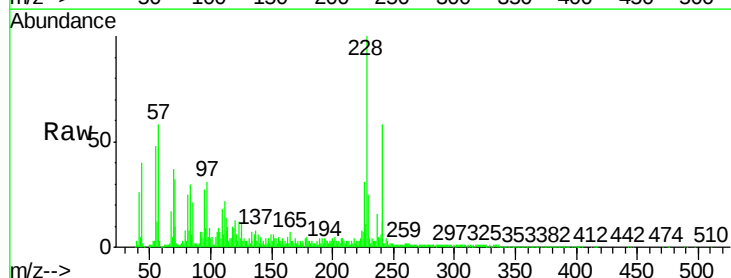
Tgt Ion:240 Resp: 249262

Ion Ratio Lower Upper

240 100

120 21.7 12.9 19.3#

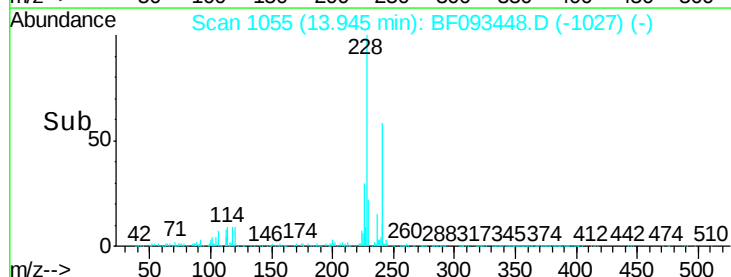
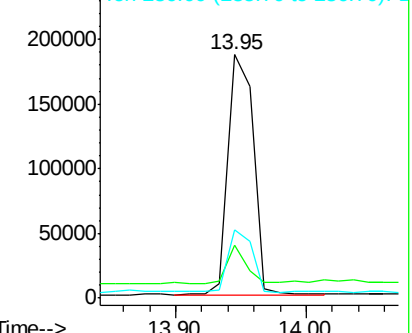
236 27.8 20.9 31.3

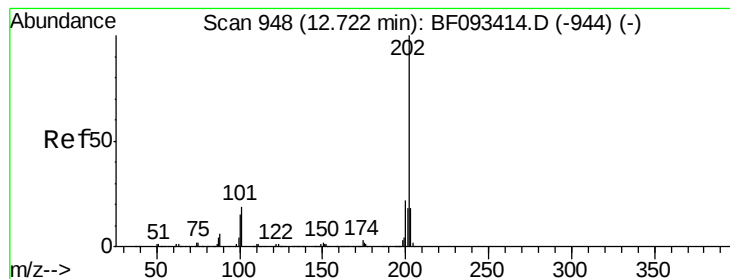


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 58.50 ng

RT: 12.74 min Scan# 950

Delta R.T. 0.02 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

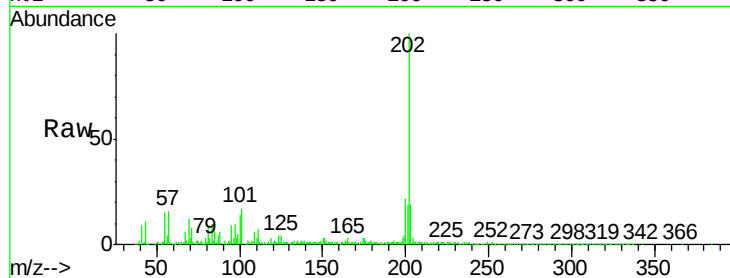
Tgt Ion:202 Resp: 1060500

Ion Ratio Lower Upper

202 100

200 22.0 17.7 26.5

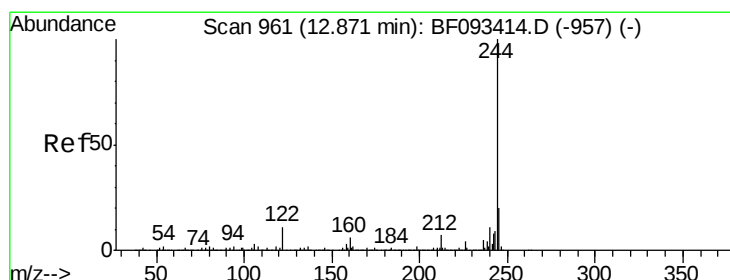
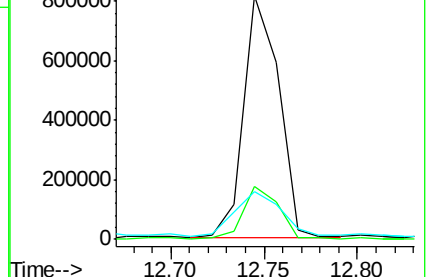
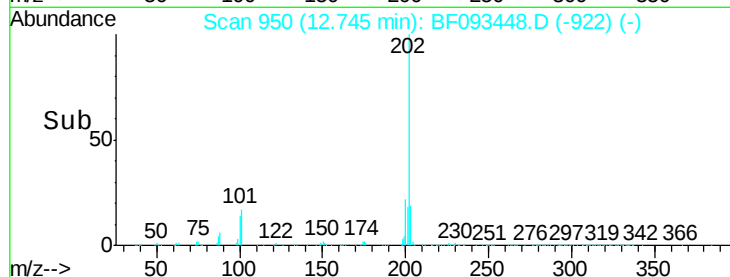
203 19.4 14.7 22.1



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: 47.10 ng

RT: 12.88 min Scan# 962

Delta R.T. 0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

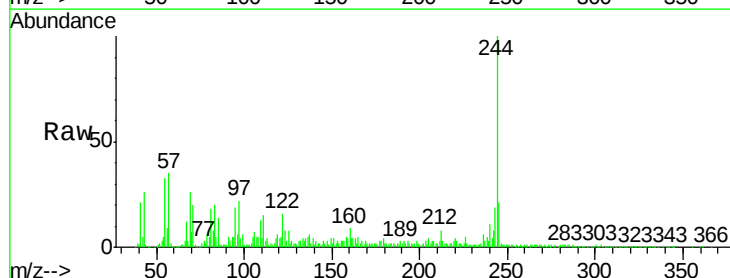
Tgt Ion:244 Resp: 451542

Ion Ratio Lower Upper

244 100

212 8.1 6.2 9.2

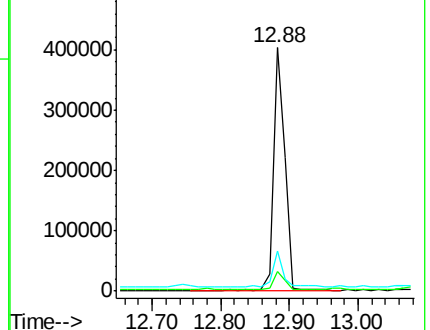
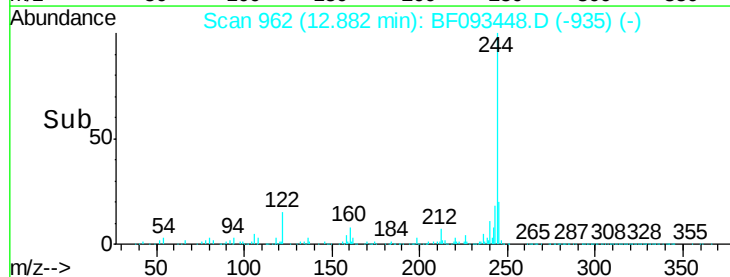
122 16.3 11.4 17.2

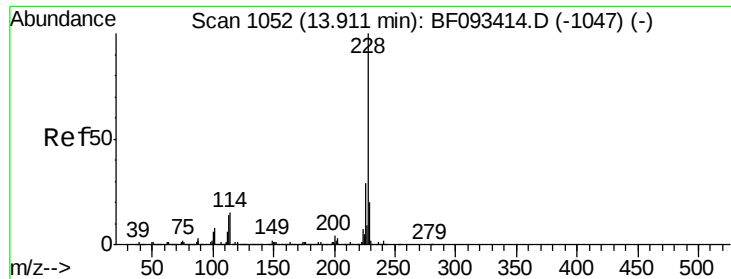


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 34.62 ng

RT: 13.95 min Scan# 1055

Delta R.T. 0.03 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

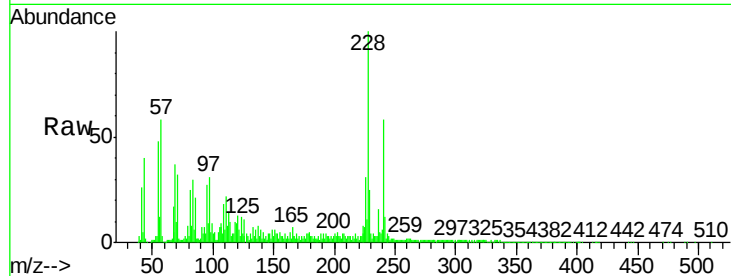
Tgt Ion:228 Resp: 509672

Ion Ratio Lower Upper

228 100

226 31.1 22.4 33.6

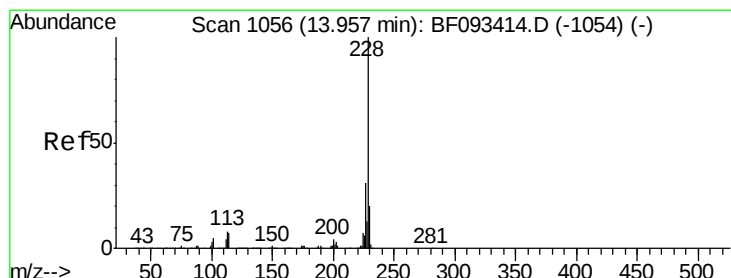
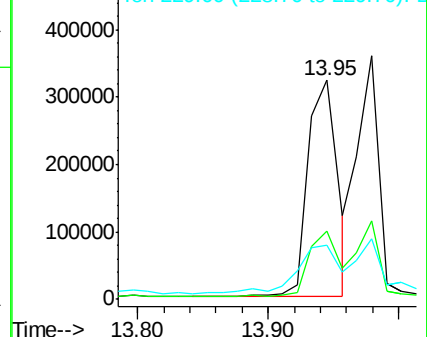
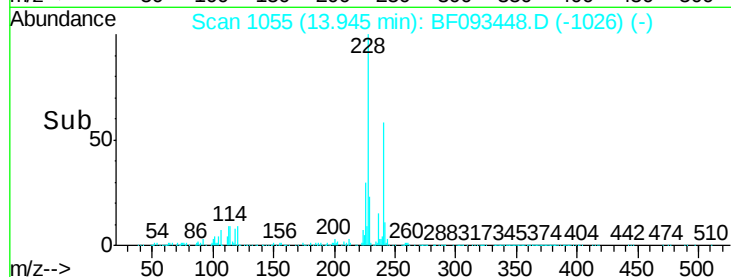
229 24.7 16.2 24.4#



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: 37.42 ng

RT: 13.95 min Scan# 1055

Delta R.T. -0.01 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

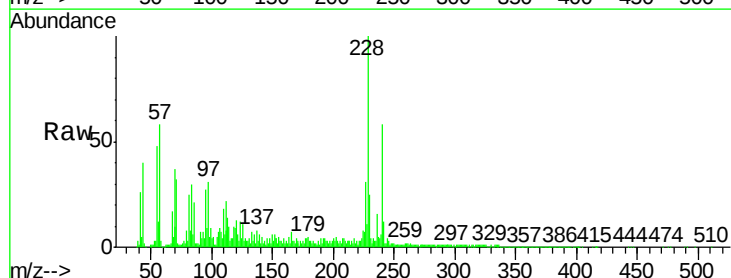
Tgt Ion:228 Resp: 509672

Ion Ratio Lower Upper

228 100

226 31.1 25.4 38.0

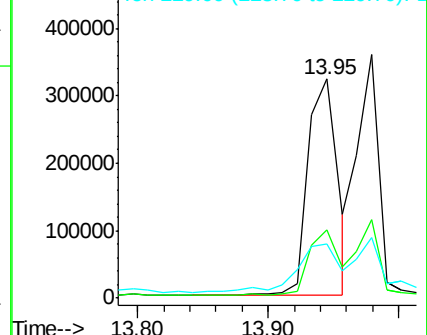
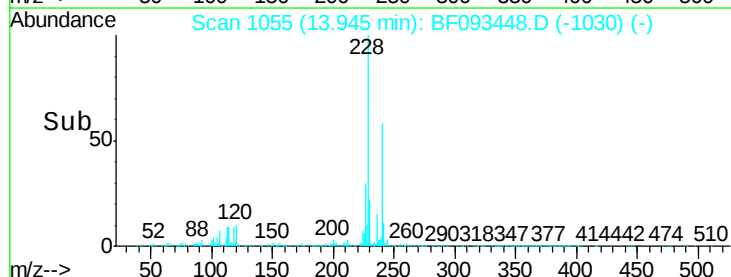
229 24.7 16.2 24.2#

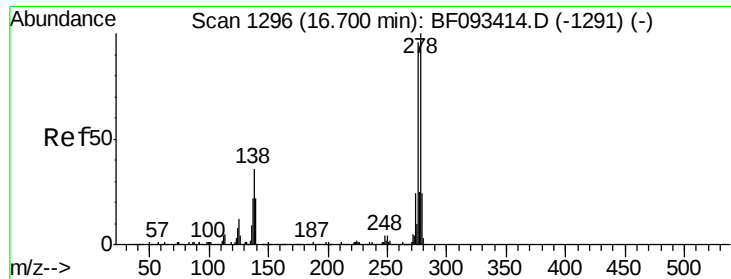


Abundance Ion 228.00 (227.70 to 228.70): E

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: 13.32 ng

RT: 16.76 min Scan# 1301

Delta R.T. 0.06 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

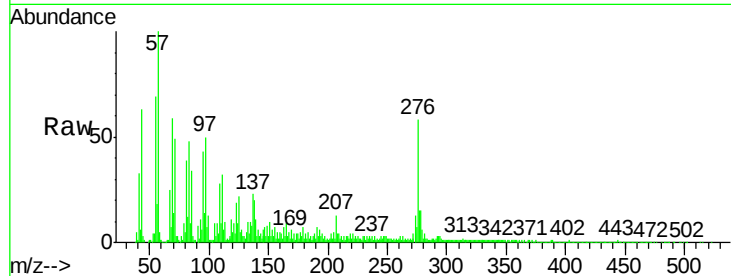
Tgt Ion:276 Resp: 151842

Ion Ratio Lower Upper

276 100

138 26.8 21.8 32.6

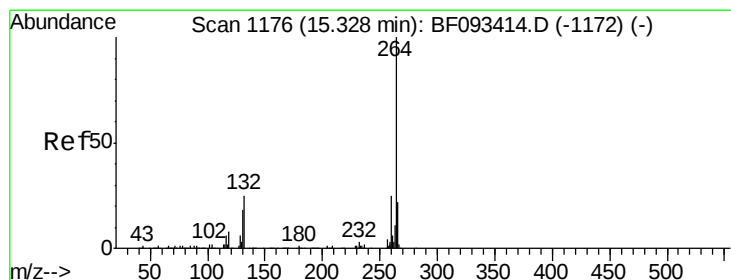
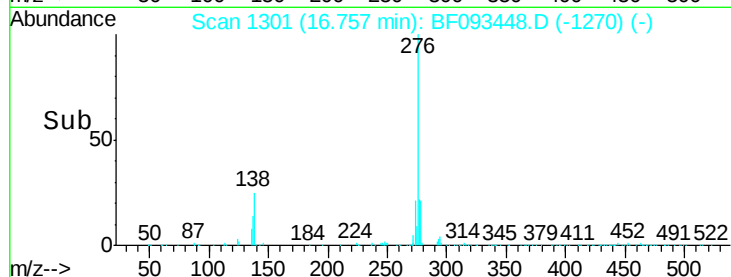
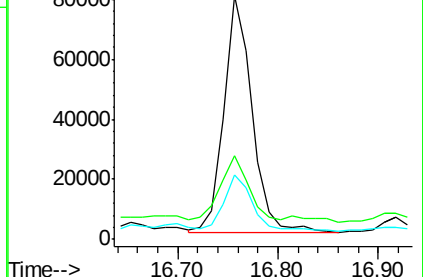
277 24.1 20.2 30.4



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

Perylene-d12

Concen: 20.00 ng

RT: 15.37 min Scan# 1180

Delta R.T. 0.05 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

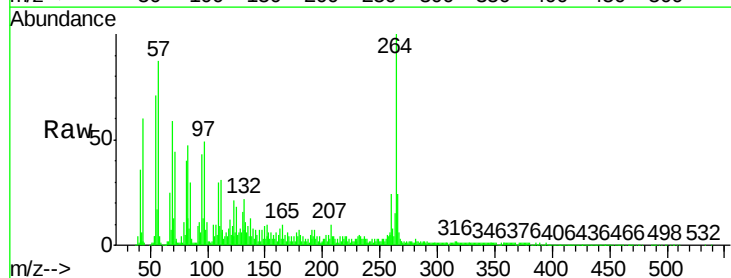
Tgt Ion:264 Resp: 244117

Ion Ratio Lower Upper

264 100

260 24.5 19.2 28.8

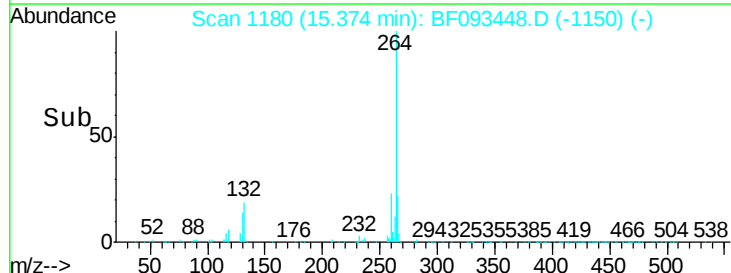
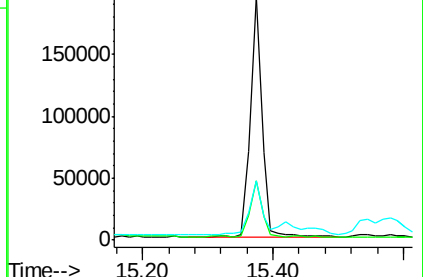
265 24.3 17.4 26.0

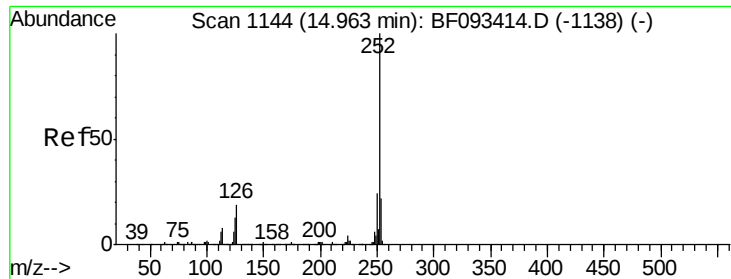


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 40.52 ng

RT: 14.97 min Scan# 1145

Delta R.T. 0.03 min

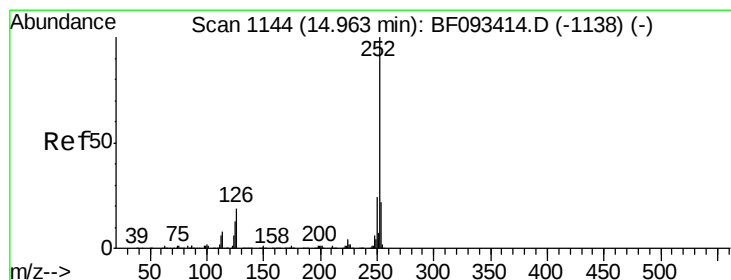
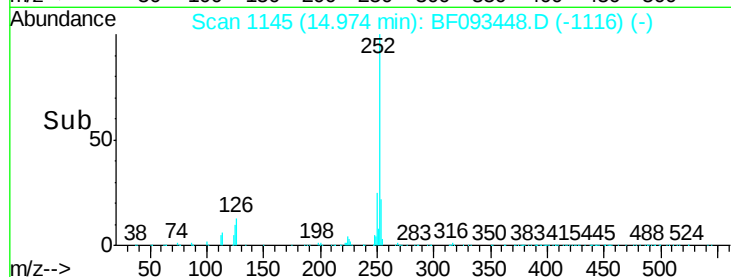
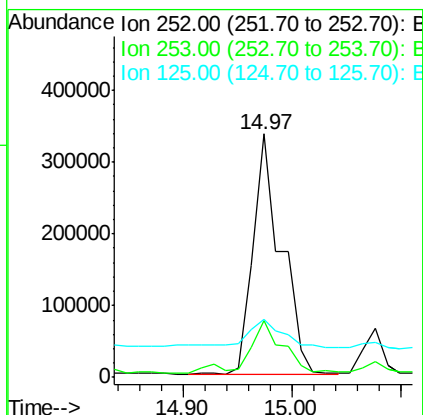
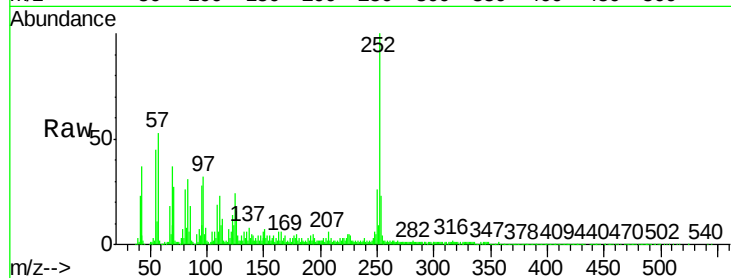
Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :
BNA_F
ClientSampleId :
HY-SB413B

Tgt Ion:252 Resp: 602480

Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.2	27.4
125	23.9	9.8	14.6#



#88

Benzo(k)fluoranthene

Concen: 42.02 ng

RT: 14.97 min Scan# 1145

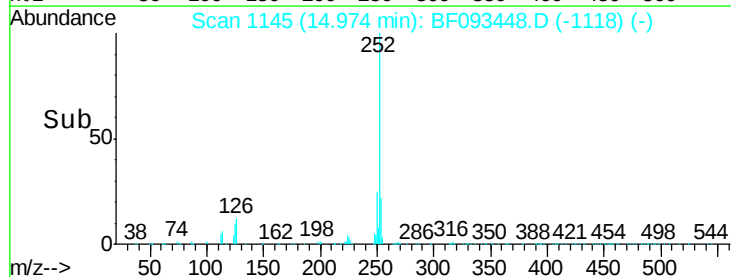
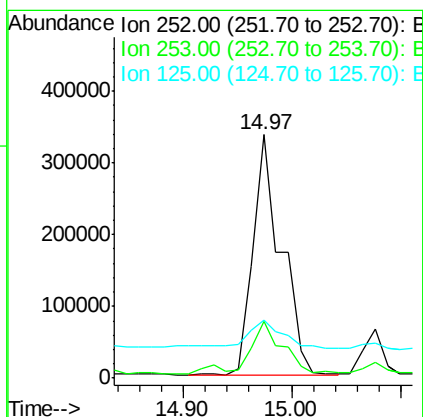
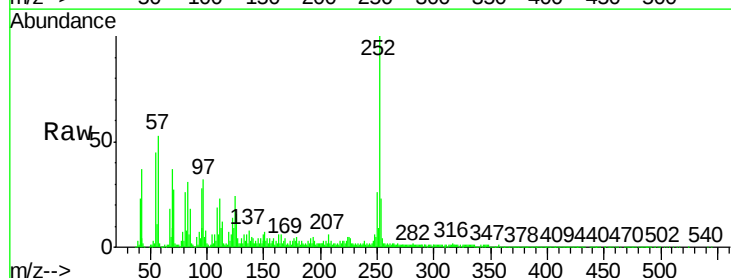
Delta R.T. 0.01 min

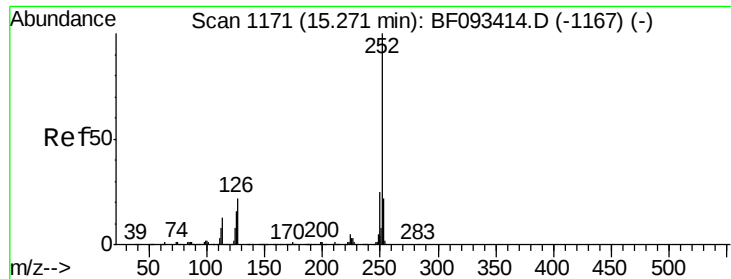
Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Tgt Ion:252 Resp: 602480

Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.5	27.7
125	23.9	8.9	13.3#





#89

Benzo(a)pyrene

Concen: 21.27 ng

RT: 15.32 min Scan# 1175

Delta R.T. 0.05 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

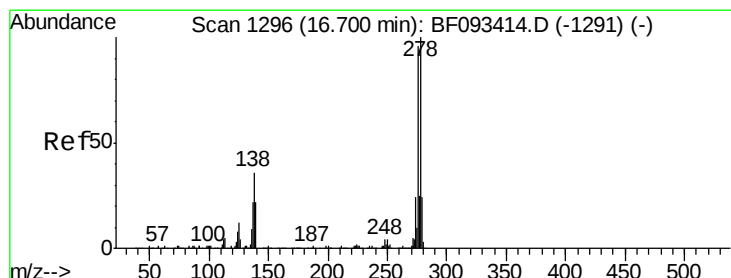
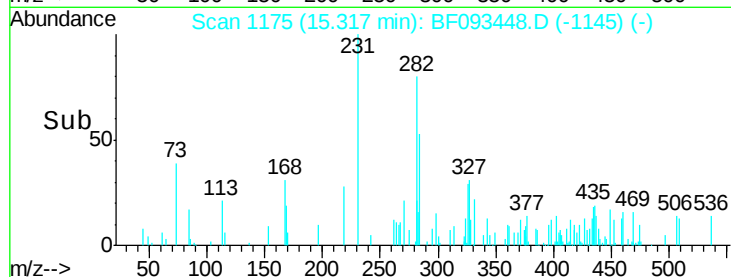
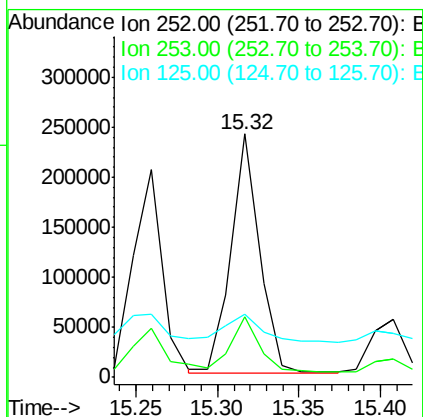
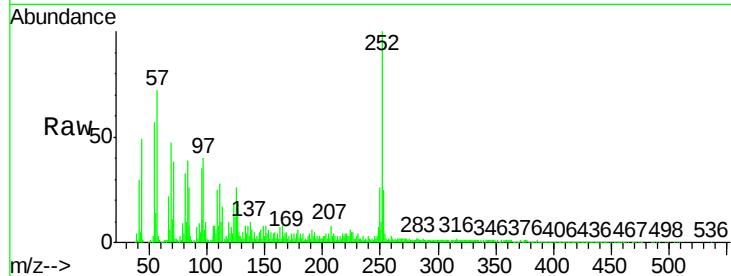
Tgt Ion:252 Resp: 288992

Ion Ratio Lower Upper

252 100

253 24.6 18.2 27.2

125 26.2 10.0 15.0#



#90

Dibenzo(a,h)anthracene

Concen: 3.54 ng

RT: 16.76 min Scan# 1301

Delta R.T. 0.06 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

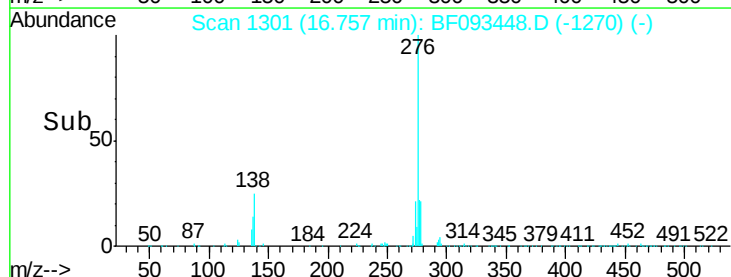
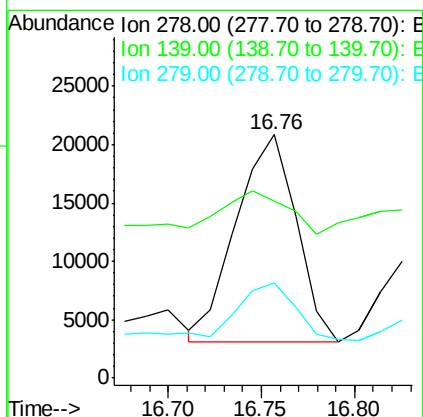
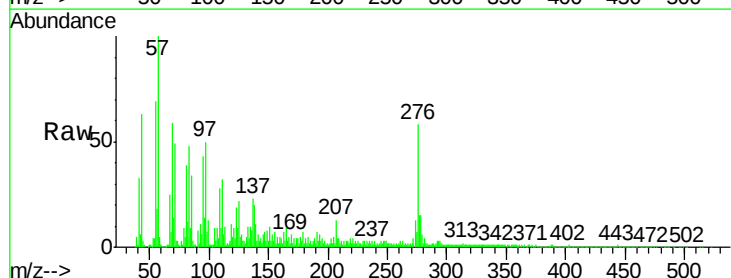
Tgt Ion:278 Resp: 39847

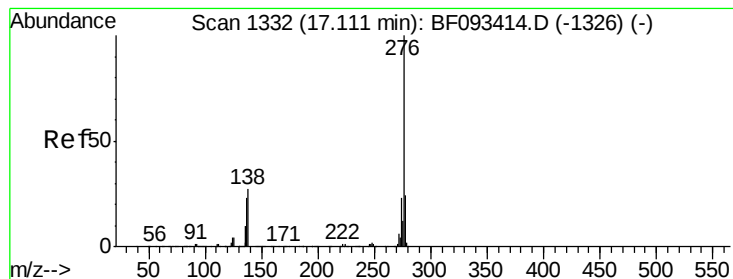
Ion Ratio Lower Upper

278 100

139 72.9 14.8 22.2#

279 39.3 19.8 29.6#





#91

Benzo(g,h,i)perylene

Concen: 12.18 ng

RT: 17.18 min Scan# 1338

Delta R.T. 0.07 min

Lab File: BF093448.D

Acq: 9 Mar 2017 00:18

Instrument :

BNA_F

ClientSampleId :

HY-SB413B

Tgt Ion:276 Resp: 140493

Ion Ratio Lower Upper

276 100

277 26.6 19.2 28.8

138 33.0 16.0 24.0#

