

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022817\
 Data File : BF093281.D
 Acq On : 1 Mar 2017 8:45
 Operator : SJ/MA
 Sample : I1998-04DL 2X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 01 09:48:01 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

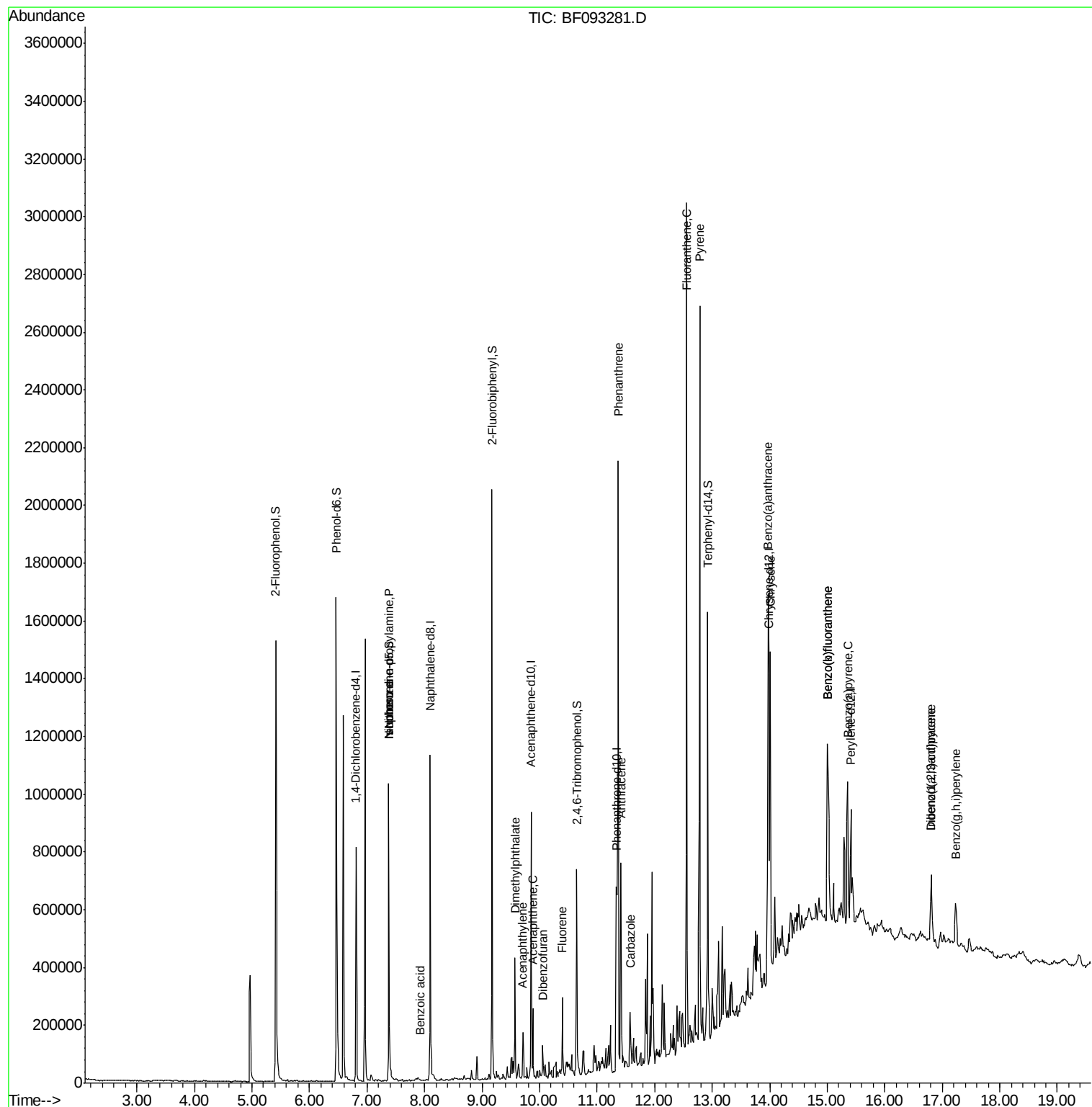
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	129822	20.00	ng	-0.05
21) Naphthalene-d8	8.10	136	501347	20.00	ng	-0.05
38) Acenaphthene-d10	9.85	164	193907	20.00	ng	-0.05
63) Phenanthrene-d10	11.34	188	342961	20.00	ng	-0.03
75) Chrysene-d12	13.99	240	268819	20.00	ng	-0.03
86) Perylene-d12	15.41	264	182584	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	504490	66.67	ng	-0.03
7) Phenol-d6	6.46	99	639977	65.73	ng	-0.02
23) Nitrobenzene-d5	7.38	82	331499	36.82	ng	-0.05
41) 2,4,6-Tribromophenol	10.65	330	91454	65.21	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	594647	55.56	ng	-0.05
78) Terphenyl-d14	12.92	244	437550	38.24	ng	-0.05
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.38	70	44731	7.22	ng	# 82
25) Isophorone	7.38	82	308148	18.37	ng	# 65
32) Benzoic acid	7.93	122	211	7.21	ng	# 1
48) Acenaphthylene	9.71	152	62316	3.28	ng	98
49) Dimethylphthalate	9.57	163	181756	13.92	ng	99
51) Acenaphthene	9.88	154	48269	4.25	ng	96
54) Dibenzofuran	10.05	168	32961	2.17	ng	# 93
57) Fluorene	10.40	166	77899	6.67	ng	95
70) Phenanthrene	11.37	178	929164	47.29	ng	97
71) Anthracene	11.41	178	271746	13.77	ng	97
72) Carbazole	11.57	167	72759	3.86	ng	98
74) Fluoranthene	12.56	202	1144159	56.45	ng	99
77) Pvrene	12.78	202	1012272	50.32	ng	99
80) Benzo(a)anthracene	13.97	228	534027	32.48	ng	98
82) Chrysene	14.01	228	337084	21.90	ng	97
85) Indeno(1,2,3-cd)pyrene	16.81	276	149814	12.56	ng	96
87) Benzo(b)fluoranthene	15.00	252	508529	42.31	ng	# 97
88) Benzo(k)fluoranthene	15.00	252	508529	49.01	ng	# 96
89) Benzo(a)pvrene	15.36	252	260704	25.08	ng	100
90) Dibenzo(a,h)anthracene	16.81	278	35578	4.23	ng	# 82
91) Benzo(g,h,i)perylene	17.23	276	128202	15.10	ng	# 89

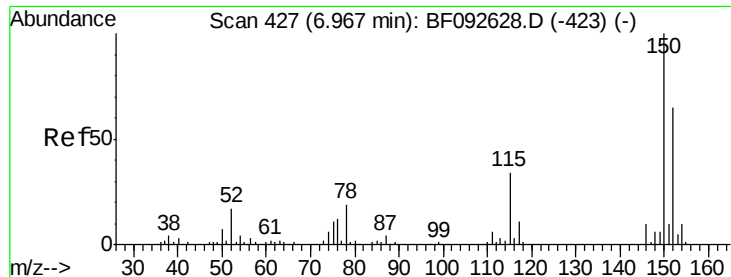
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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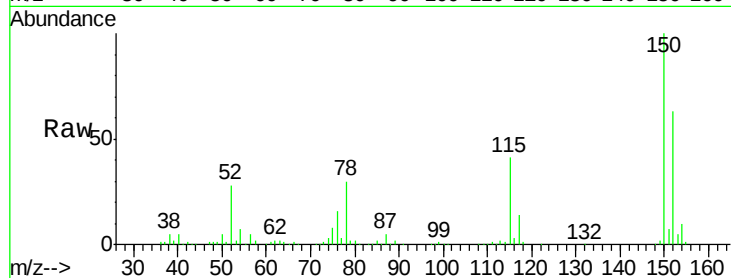


#1

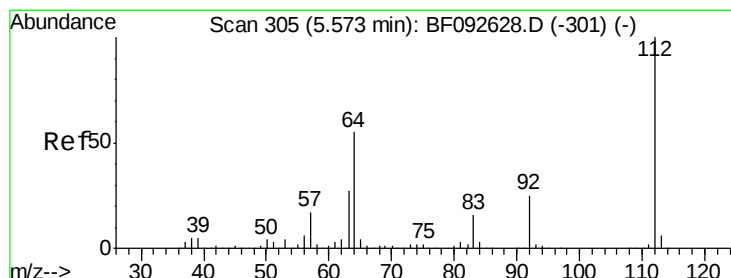
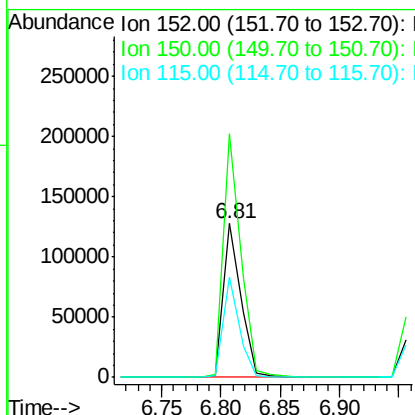
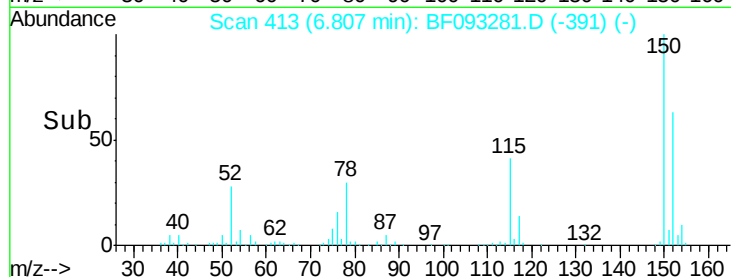
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.81 min Scan# 413
Delta R.T. -0.05 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 129822
Ion Ratio Lower Upper
152 100
150 158.6 124.9 187.3
115 64.9 46.0 69.0



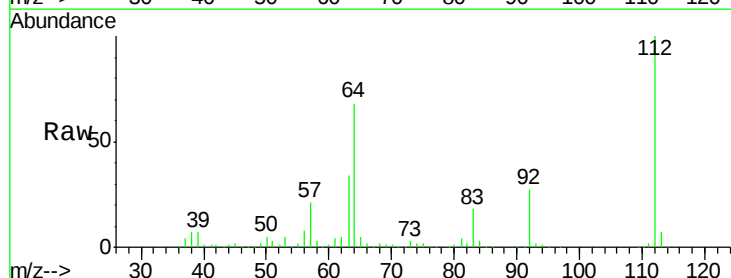
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



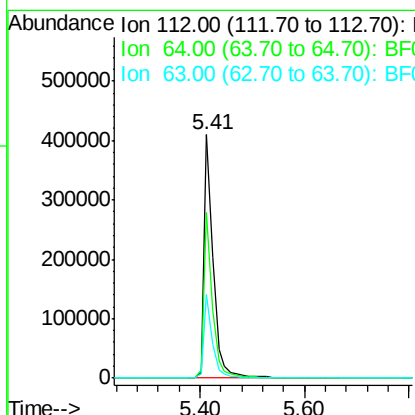
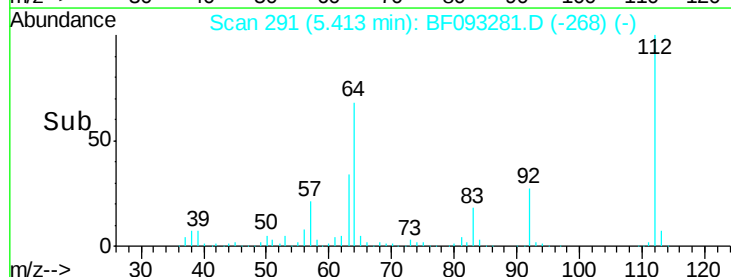
#5

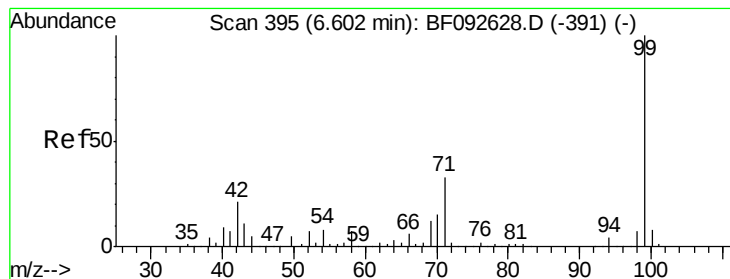
2-Fluorophenol
Concen: 66.67 ng
RT: 5.41 min Scan# 291
Delta R.T. -0.03 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Tgt Ion:112 Resp: 504490
Ion Ratio Lower Upper
112 100
64 68.1 46.1 69.1
63 34.5 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: 65.73 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.02 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

Instrument :

BNA_F

ClientSampleId :

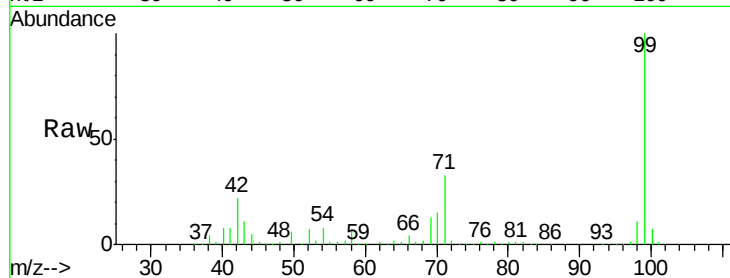
Tot Ion: 99 Resp: 639977

Ion Ratio Lower Upper

99 100

42 21.8 15.6 23.4

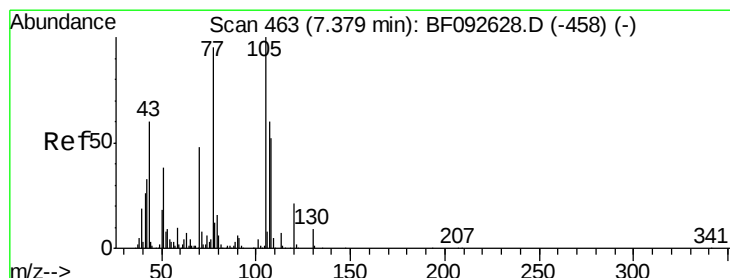
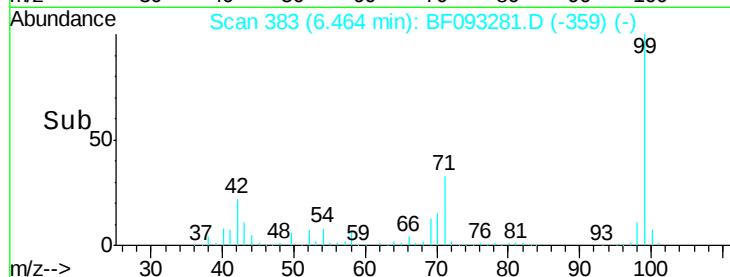
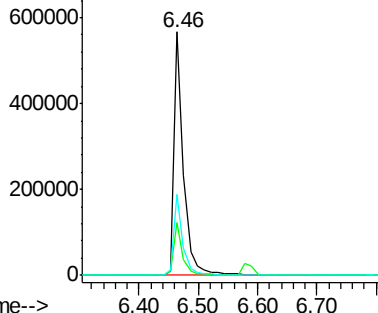
71 33.5 27.5 41.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 7.22 ng

RT: 7.38 min Scan# 463

Delta R.T. 0.10 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

Tgt Ion: 70 Resp: 44731

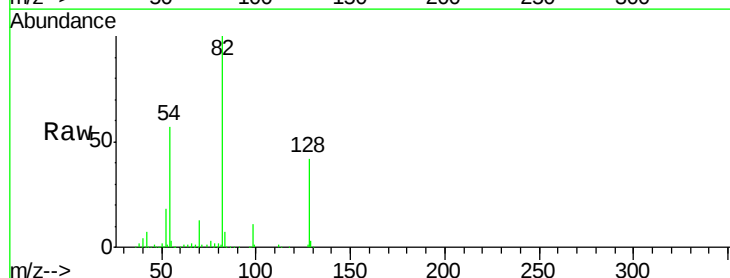
Ion Ratio Lower Upper

70 100

42 52.6 49.4 74.0

101 0.0 7.4 11.2#

130 2.0 14.2 21.4#

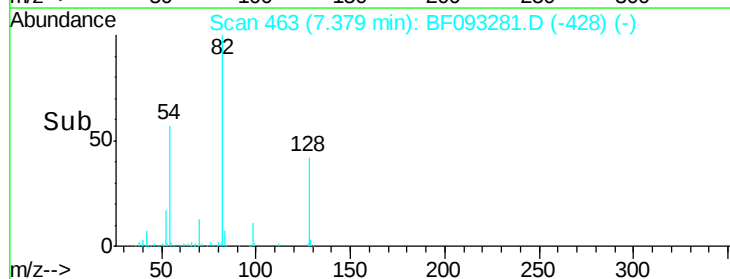
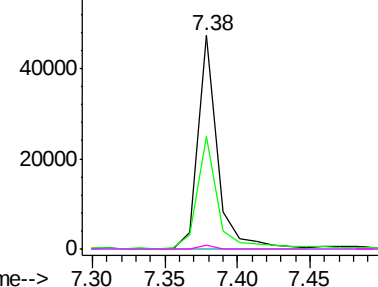


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

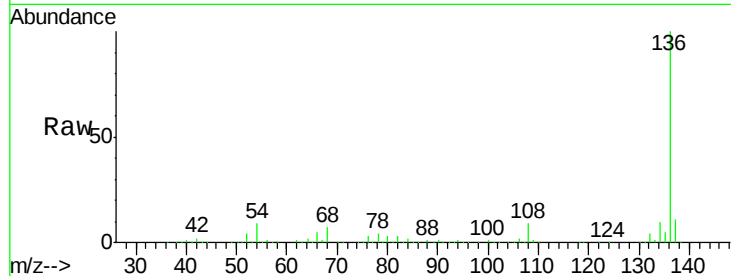




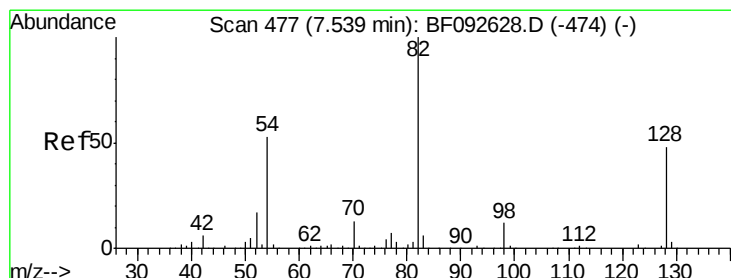
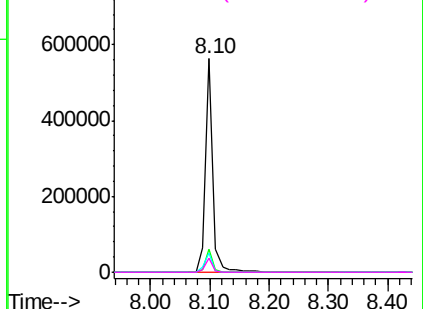
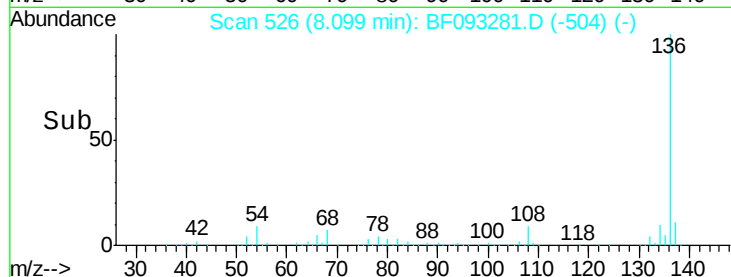
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.10 min Scan# 526
Delta R.T. -0.05 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	501347
Ion Ratio	Lower	Upper
136	100	
137	10.6	8.4 12.6
54	9.1	4.5 6.7#
68	6.6	3.6 5.4#

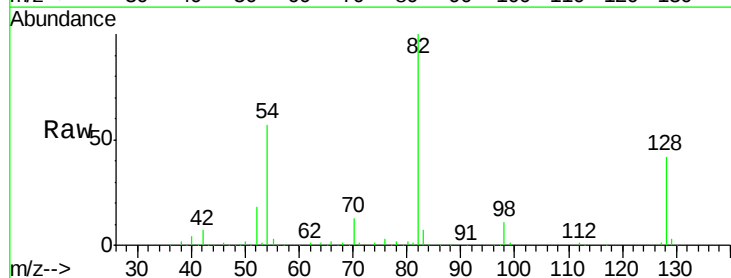


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

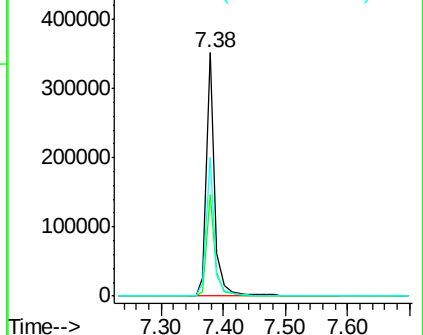
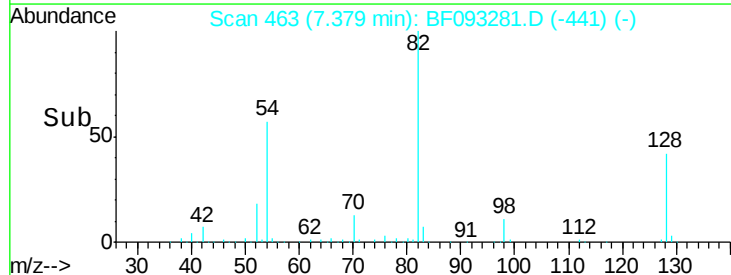


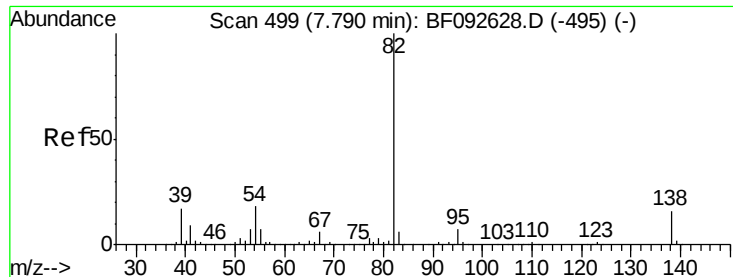
#23
Nitrobenzene-d5
Concen: 36.82 ng
RT: 7.38 min Scan# 463
Delta R.T. -0.05 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Tgt Ion: 82	Resp:	331499
Ion Ratio	Lower	Upper
82	100	
128	41.7	34.6 52.0
54	57.2	39.5 59.3



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





#25

Isophorone

Concen: 18.37 ng

RT: 7.38 min Scan# 463

Delta R.T. -0.31 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

Instrument :

BNA_F

ClientSampled :

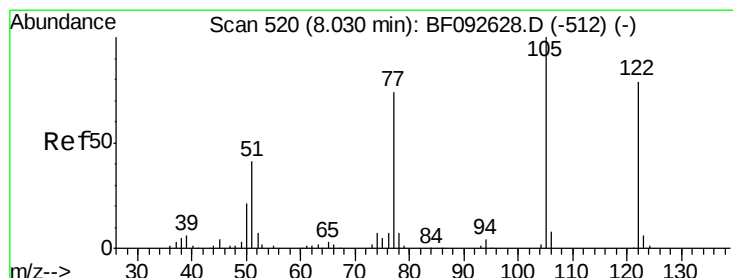
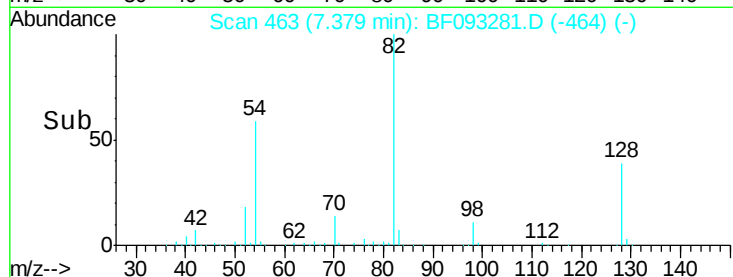
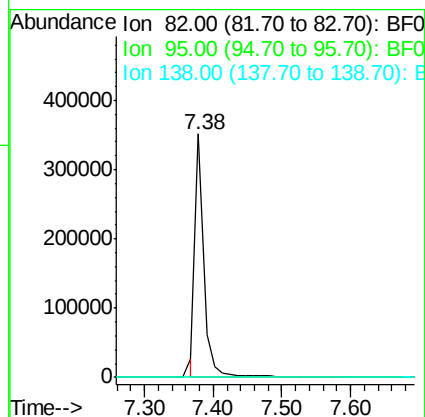
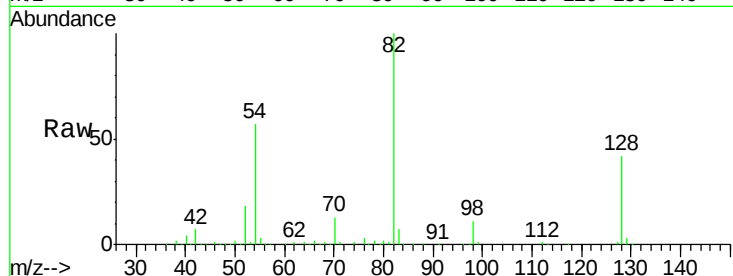
Tot Ion: 82 Resp: 308148

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

138 0.0 14.6 22.0#



#32

Benzoic acid

Concen: 7.21 ng

RT: 7.93 min Scan# 511

Delta R.T. -0.00 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

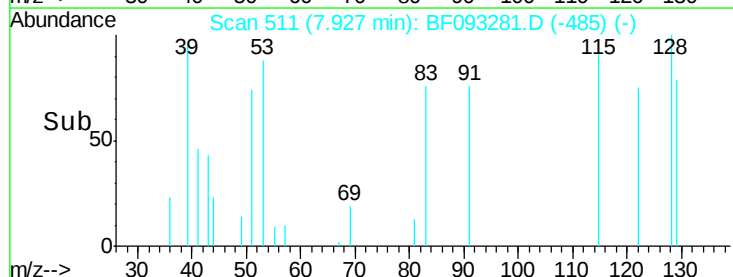
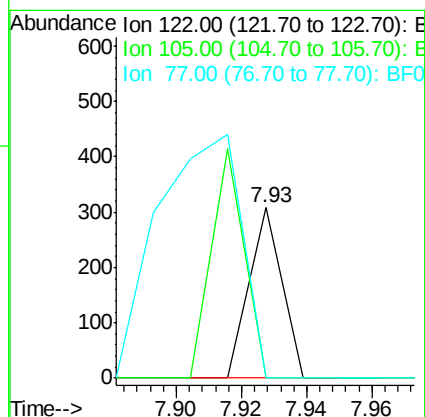
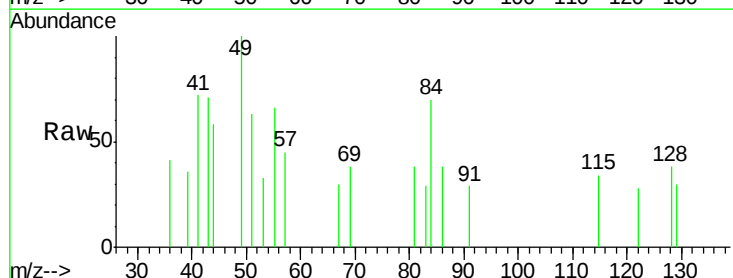
Tgt Ion: 122 Resp: 211

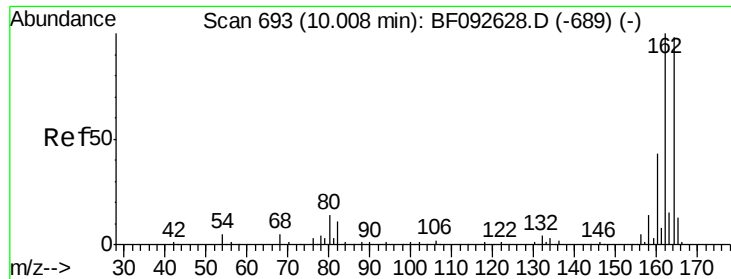
Ion Ratio Lower Upper

122 100

105 0.0 107.2 147.2#

77 0.0 74.5 114.5#

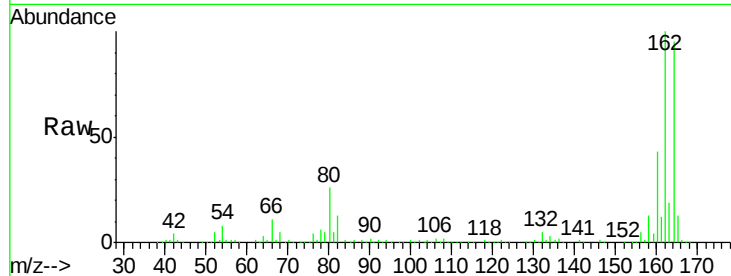




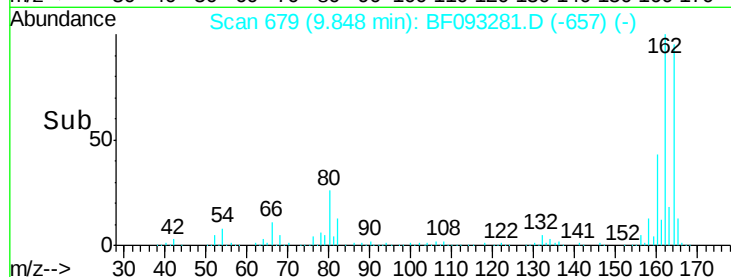
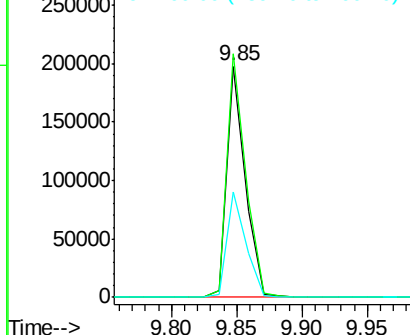
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.85 min Scan# 679
Delta R.T. -0.05 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 193907
Ion Ratio Lower Upper
164 100
162 105.3 80.2 120.2
160 45.5 36.9 55.3

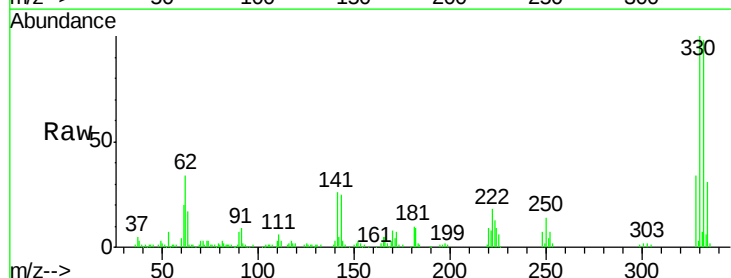


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

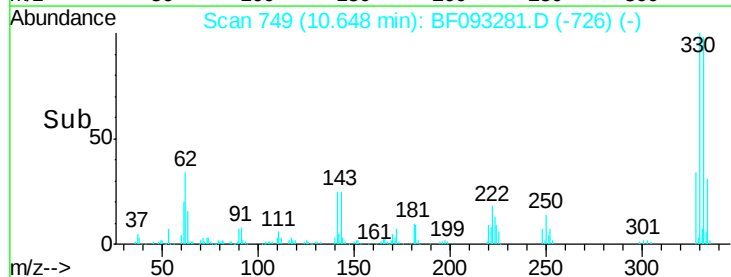
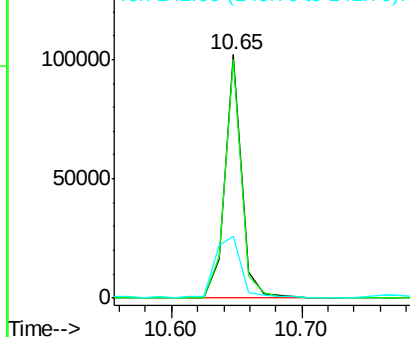


#41
2,4,6-Tribromophenol
Concen: 65.21 ng
RT: 10.65 min Scan# 749
Delta R.T. -0.03 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Tgt Ion:330 Resp: 91454
Ion Ratio Lower Upper
330 100
332 98.5 77.4 116.2
141 41.4 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

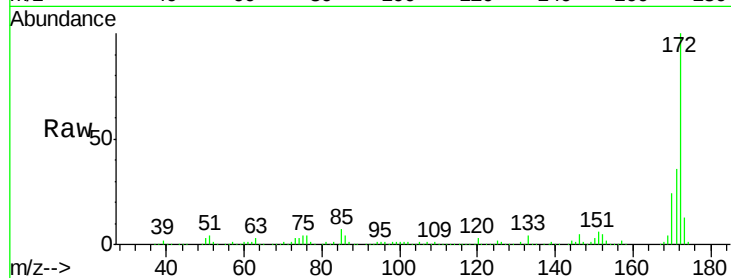




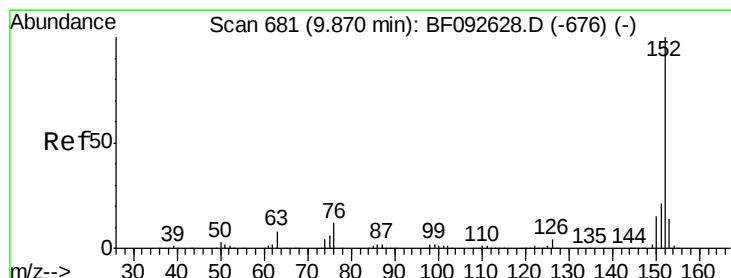
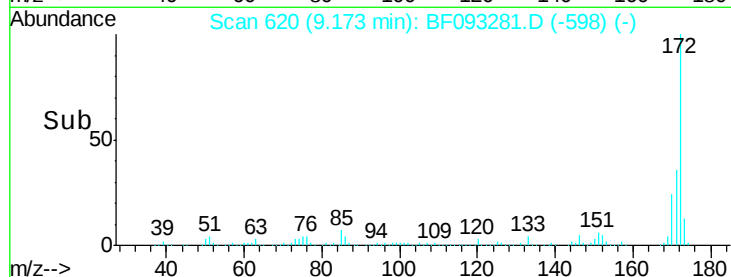
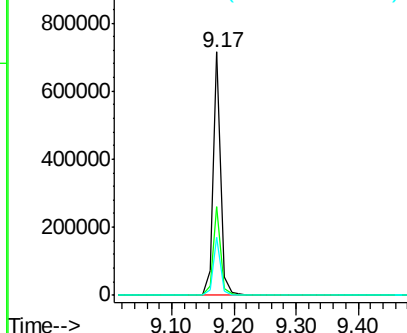
#44
2-Fluorobiphenyl
Concen: 55.56 ng
RT: 9.17 min Scan# 620
Delta R.T. -0.05 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.4	44.0
170	23.8	20.2	30.4

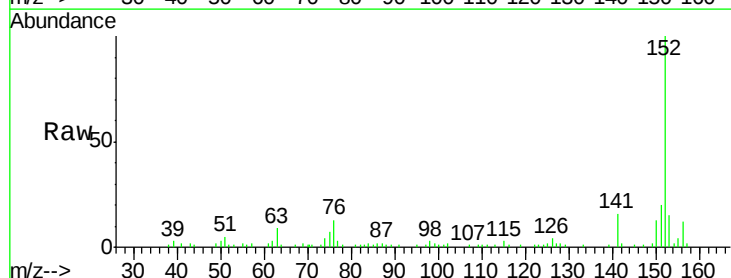


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

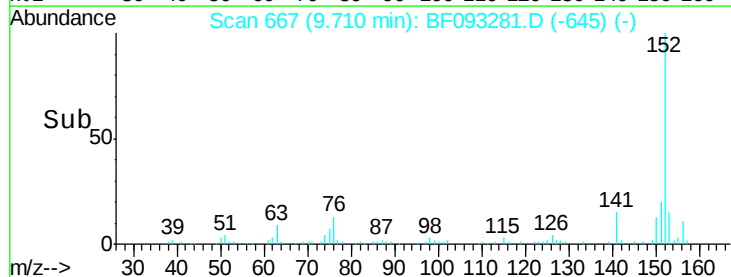
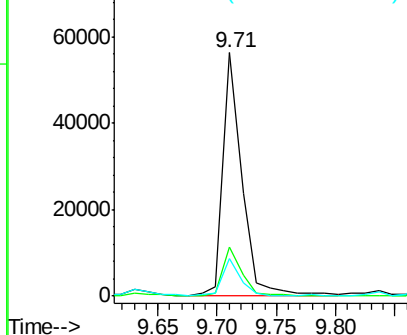


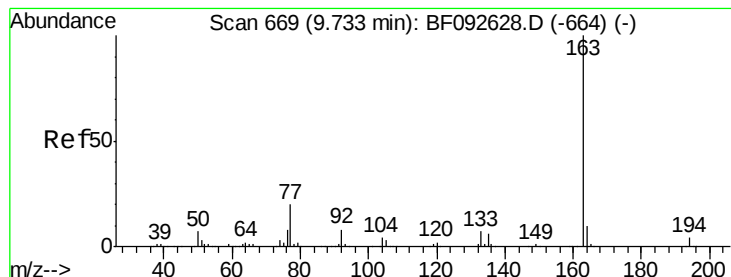
#48
Acenaphthylene
Concen: 3.28 ng
RT: 9.71 min Scan# 667
Delta R.T. -0.05 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.9	25.3
153	15.3	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: 13.92 ng

RT: 9.57 min Scan# 655

Delta R.T. -0.05 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

Instrument :

BNA_F

ClientSampled :

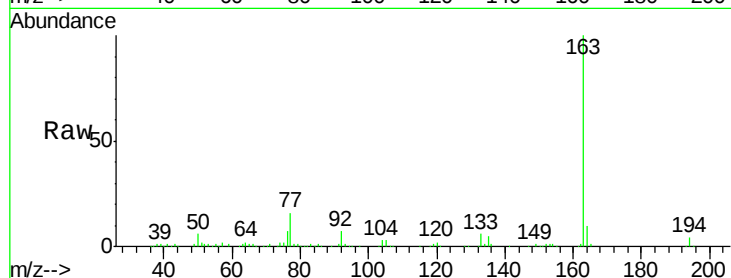
Tot Ion:163 Resp: 181756

Ion Ratio Lower Upper

163 100

194 3.5 3.0 4.4

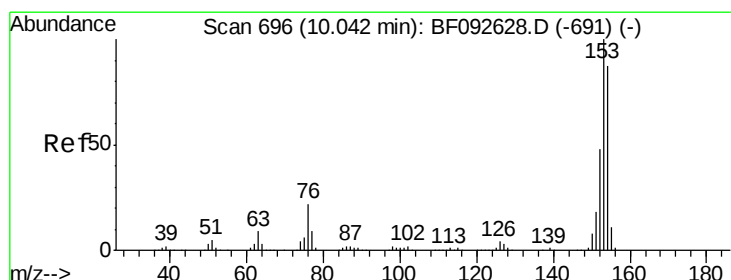
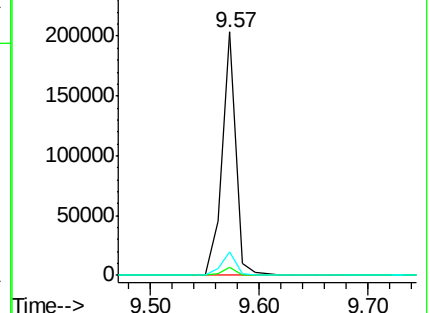
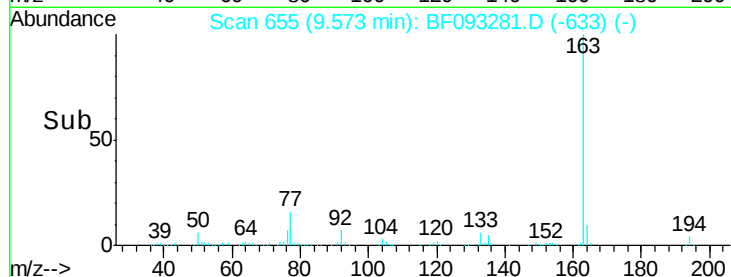
164 9.6 8.0 12.0



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: 4.25 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.05 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

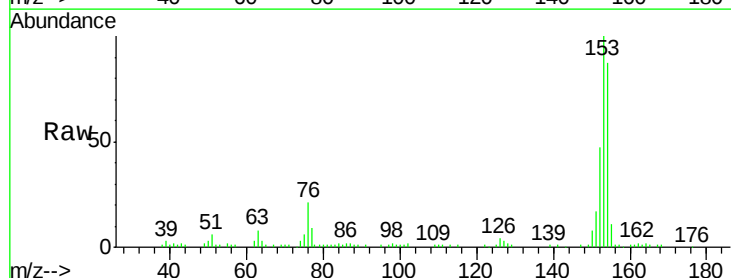
Tgt Ion:154 Resp: 48269

Ion Ratio Lower Upper

154 100

153 115.2 88.6 133.0

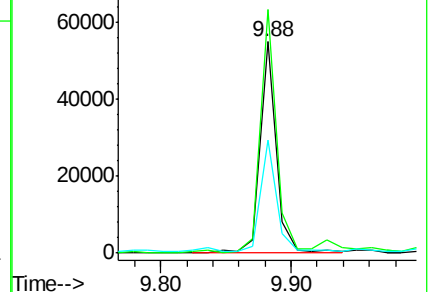
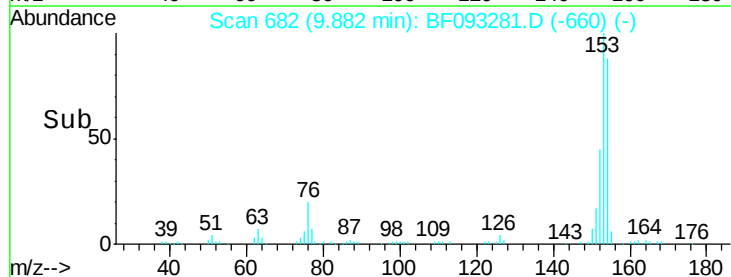
152 53.8 41.6 62.4

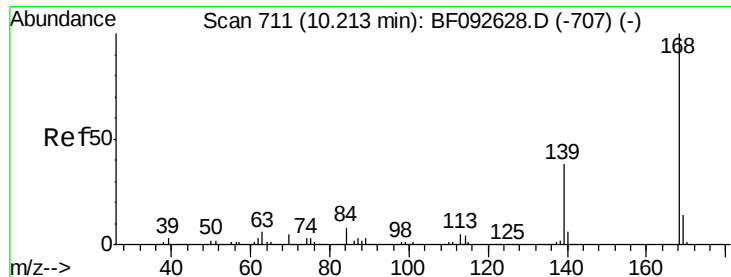


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

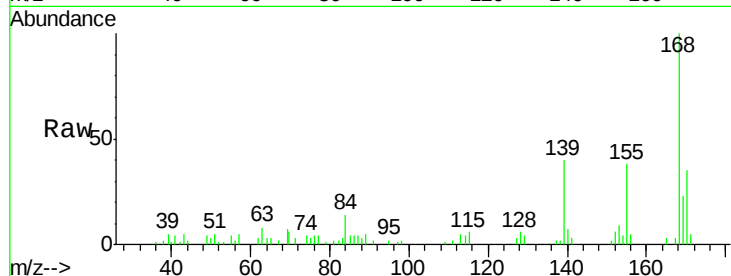




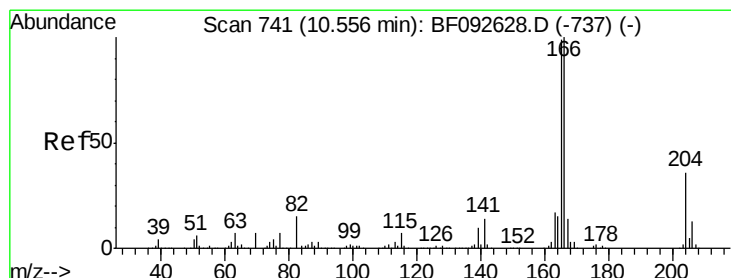
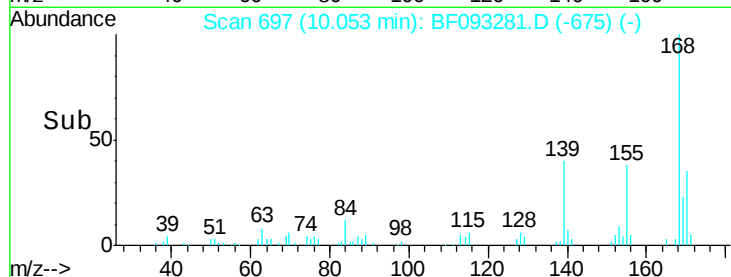
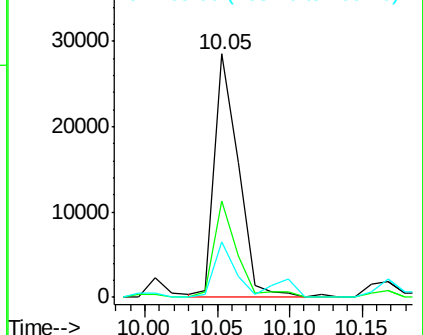
#54
Dibenzenofuran
Concen: 2.17 ng
RT: 10.05 min Scan# 697
Delta R.T. -0.05 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:168 Resp: 32961
Ion Ratio Lower Upper
168 100
139 39.8 32.6 49.0
169 22.7 11.3 16.9#

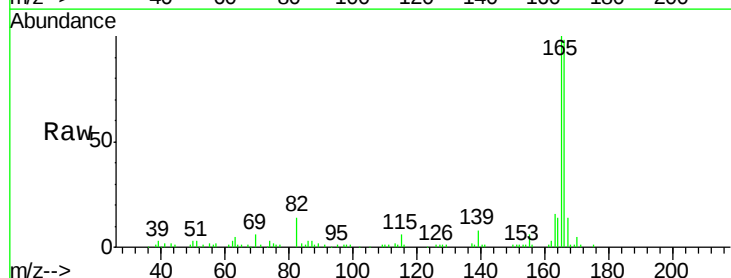


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

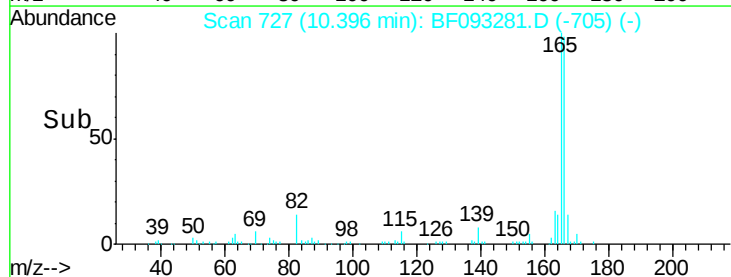
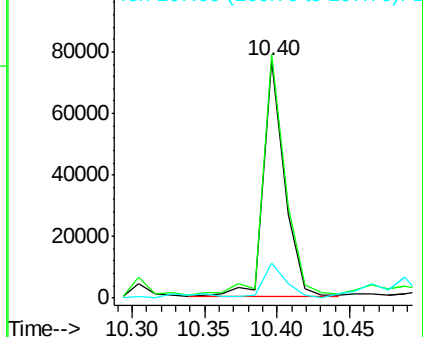


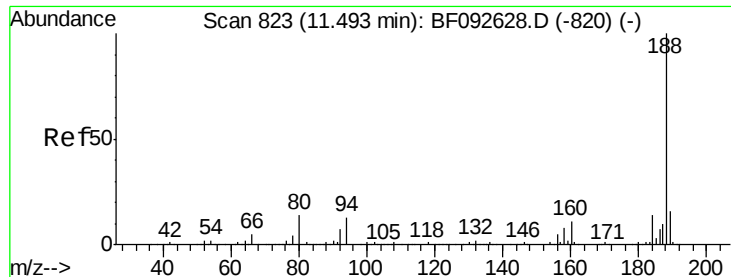
#57
Fluorene
Concen: 6.67 ng
RT: 10.40 min Scan# 727
Delta R.T. -0.05 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Tgt Ion:166 Resp: 77899
Ion Ratio Lower Upper
166 100
165 102.4 77.8 116.8
167 14.8 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

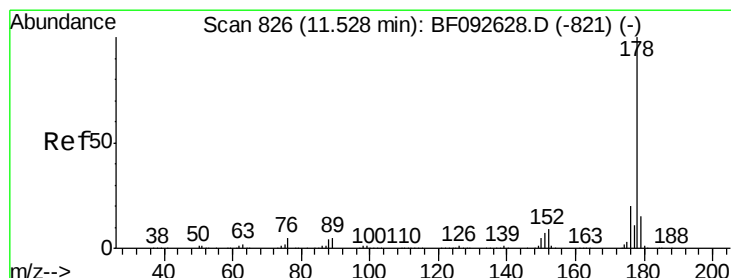
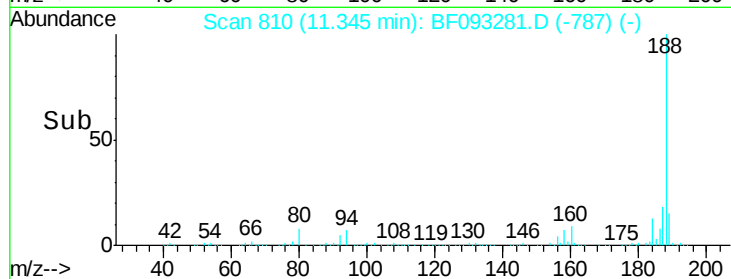
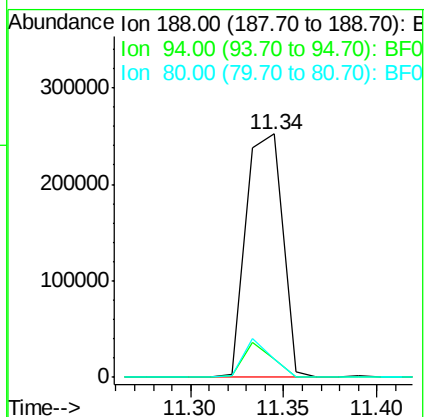
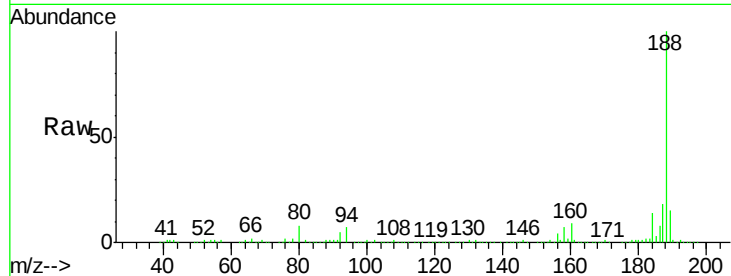




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.34 min Scan# 810
Delta R.T. -0.03 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

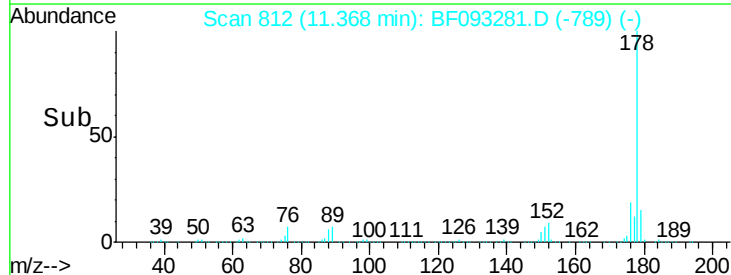
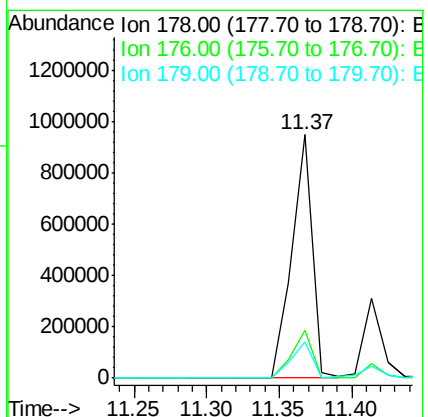
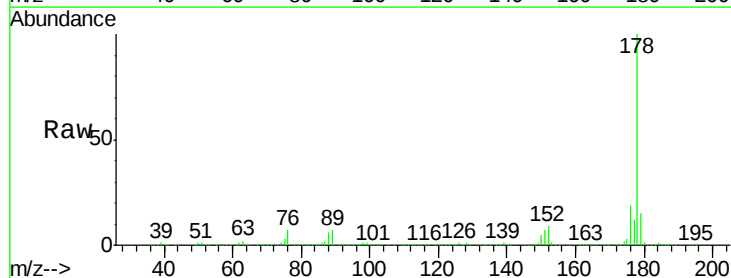
Instrument :
BNA_F
ClientSampleId :

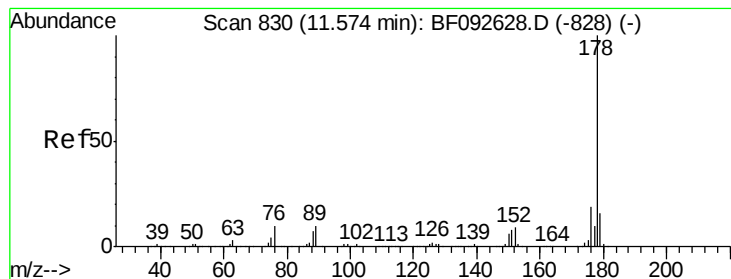
Tot Ion:188 Resp: 342961
Ion Ratio Lower Upper
188 100
94 7.4 10.0 15.0#
80 7.5 11.2 16.8#



#70
Phenanthrene
Concen: 47.29 ng
RT: 11.37 min Scan# 812
Delta R.T. -0.03 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Tgt Ion:178 Resp: 929164
Ion Ratio Lower Upper
178 100
176 19.4 16.6 25.0
179 15.0 12.8 19.2





#71

Anthracene

Concen: 13.77 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.05 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

Instrument :

BNA_F

ClientSampleId :

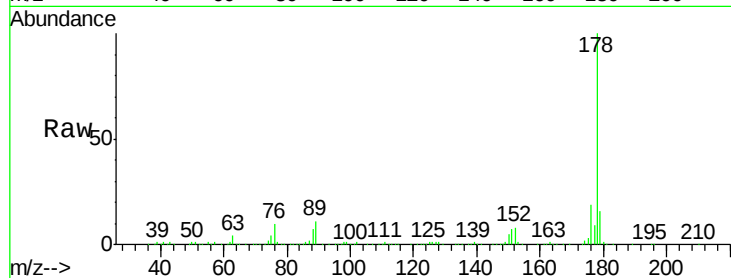
Tot Ion:178 Resp: 271746

Ion Ratio Lower Upper

178 100

176 18.5 15.9 23.9

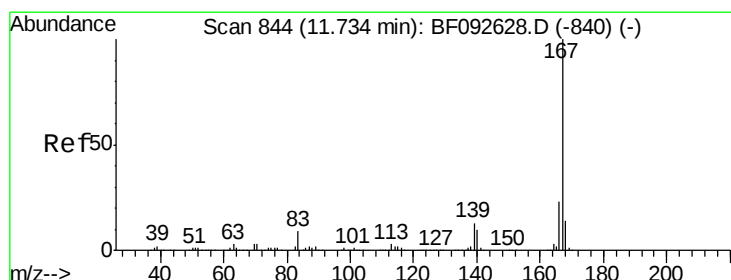
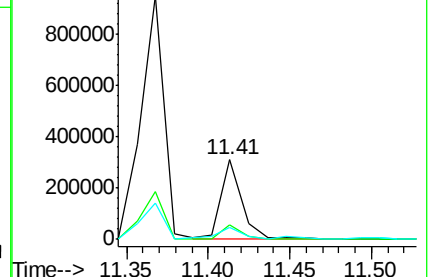
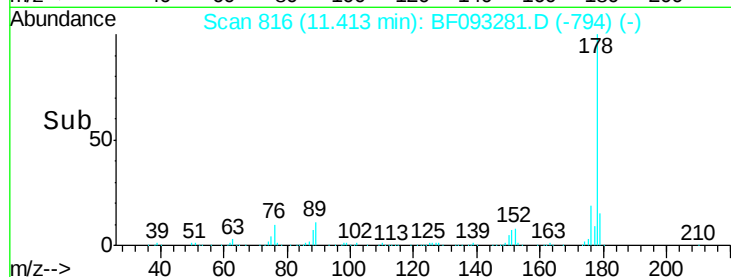
179 15.5 13.2 19.8



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: 3.86 ng

RT: 11.57 min Scan# 830

Delta R.T. -0.03 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

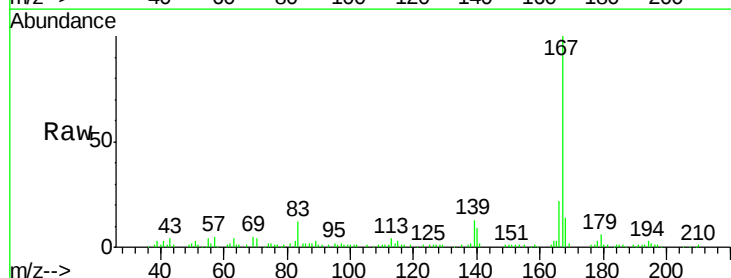
Tgt Ion:167 Resp: 72759

Ion Ratio Lower Upper

167 100

166 22.0 18.2 27.2

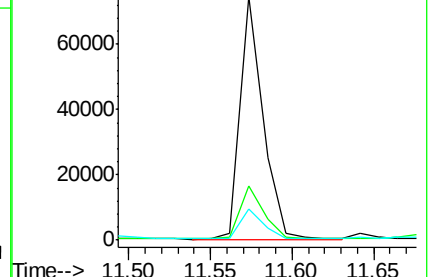
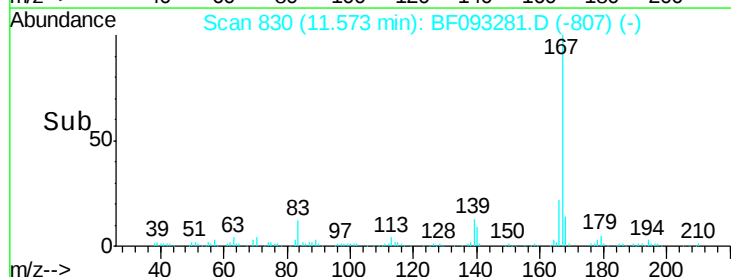
139 12.9 11.4 17.2

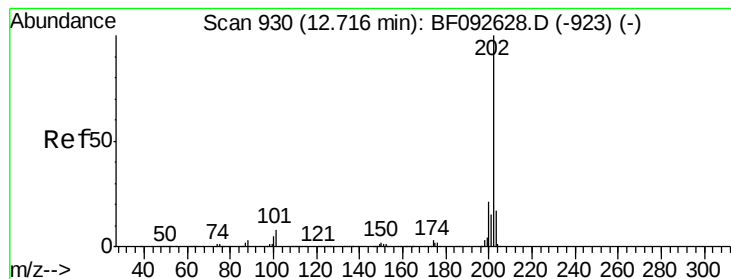


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 56.45 ng

RT: 12.56 min Scan# 916

Delta R.T. -0.03 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

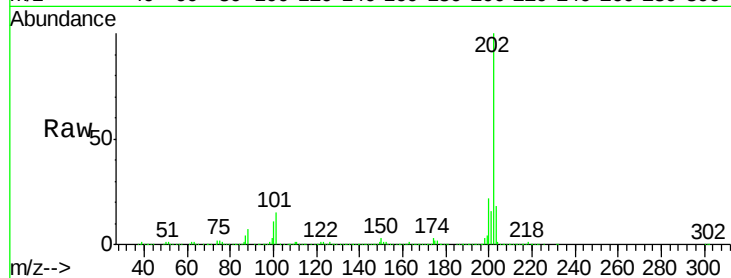
Instrument :

BNA_F

ClientSampleId :

Tot Ion:202 Resp: 1144159

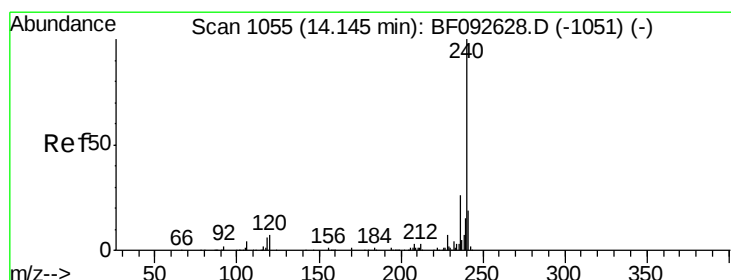
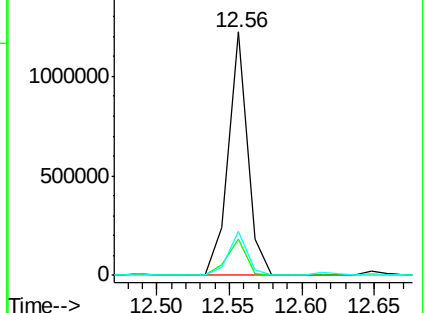
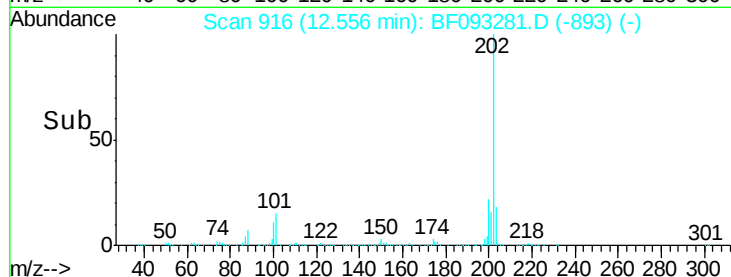
Ion	Ratio	Lower	Upper
202	100		
101	14.7	0.0	34.6
203	17.9	0.0	38.7



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: 13.99 min Scan# 1041

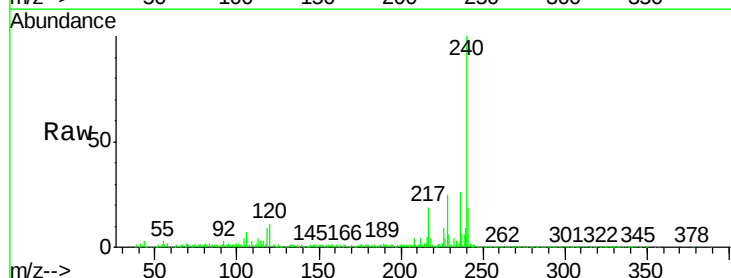
Delta R.T. -0.03 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

Tgt Ion:240 Resp: 268819

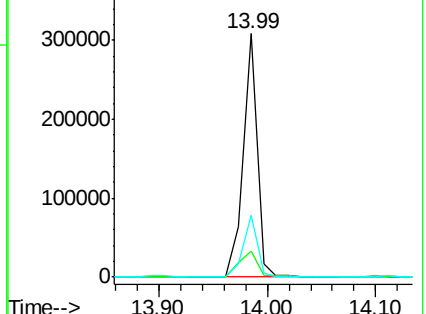
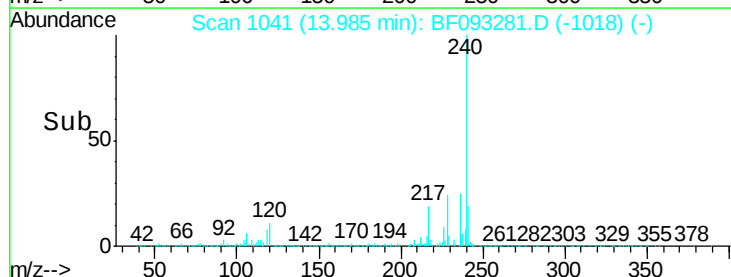
Ion	Ratio	Lower	Upper
240	100		
120	10.9	12.9	19.3#
236	25.5	20.9	31.3

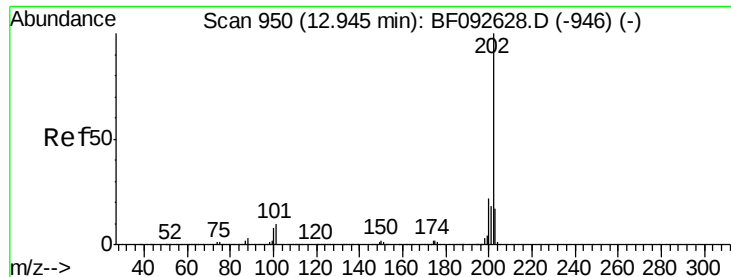


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 50.32 ng

RT: 12.78 min Scan# 936

Delta R.T. -0.03 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

Instrument :
BNA_F
ClientSampled :

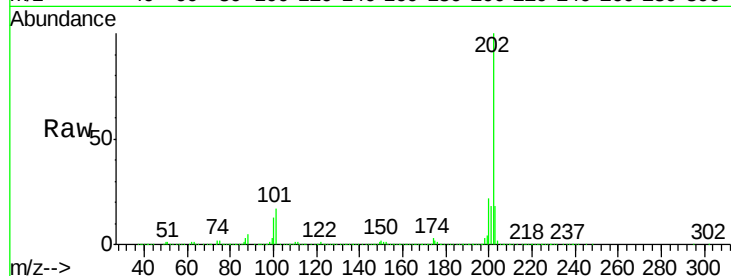
Tot Ion:202 Resp: 1012272

Ion Ratio Lower Upper

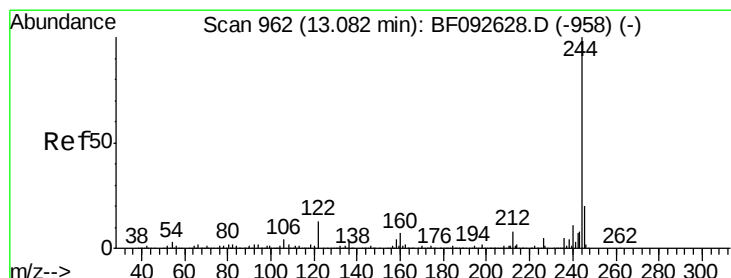
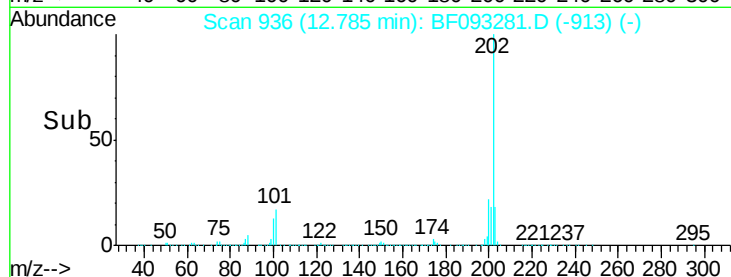
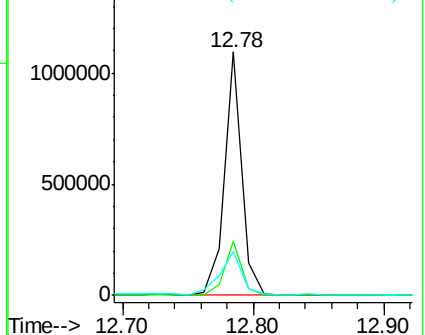
202 100

200 22.1 17.7 26.5

203 17.9 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: 38.24 ng

RT: 12.92 min Scan# 948

Delta R.T. -0.05 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

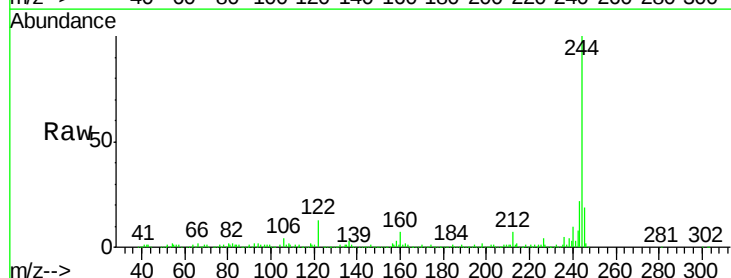
Tgt Ion:244 Resp: 437550

Ion Ratio Lower Upper

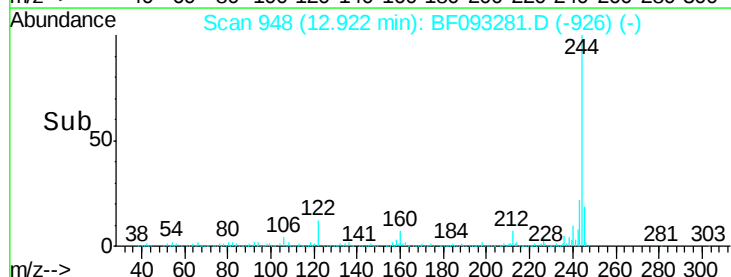
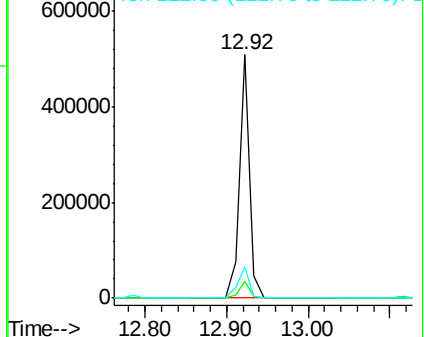
244 100

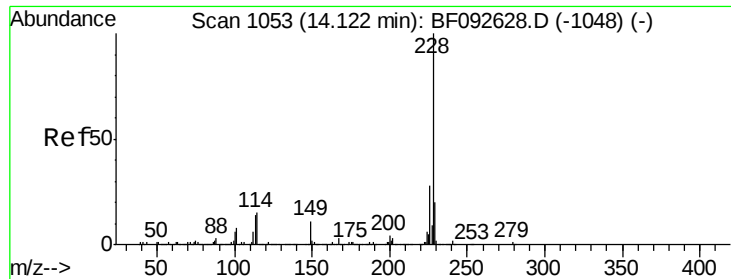
212 7.2 6.2 9.2

122 12.5 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

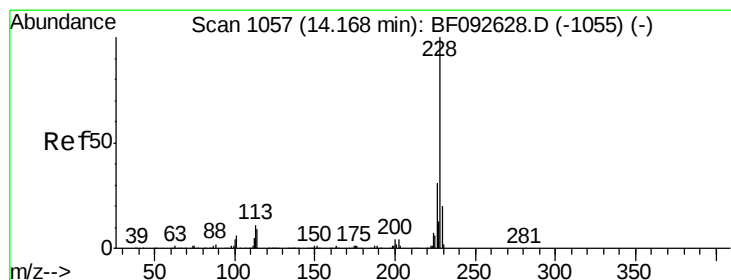
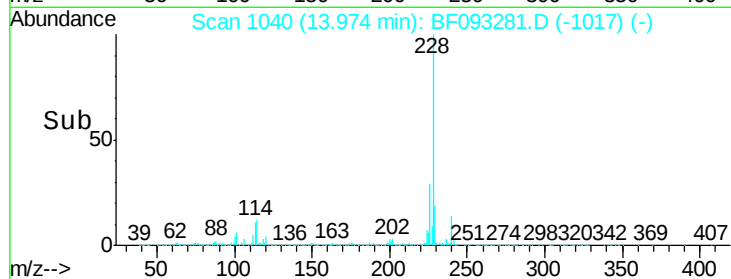
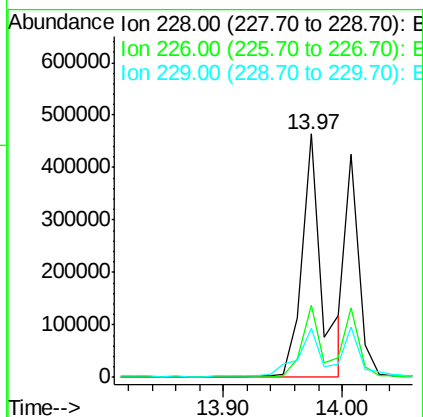
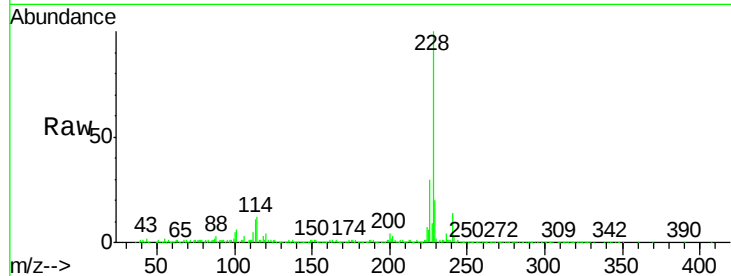




#80
Benzo(a)anthracene
Concen: 32.48 ng
RT: 13.97 min Scan# 1040
Delta R.T. -0.03 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

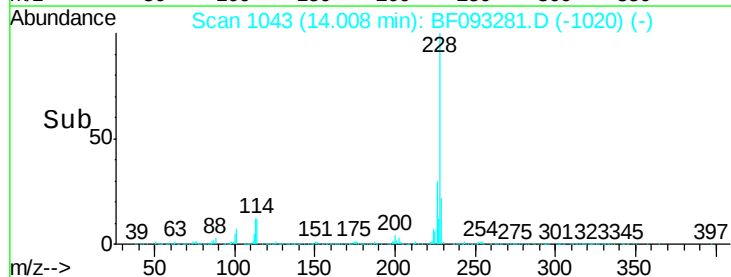
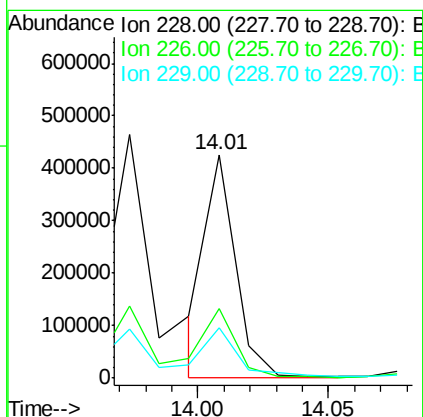
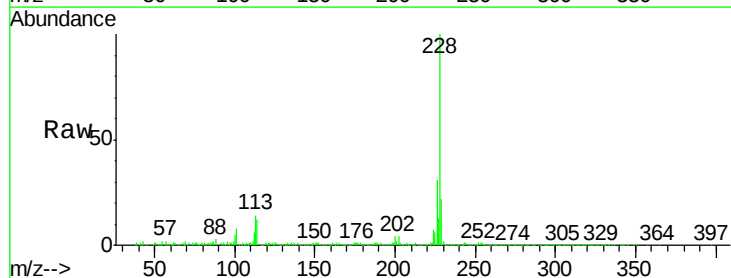
Instrument :
BNA_F
ClientSampleId :

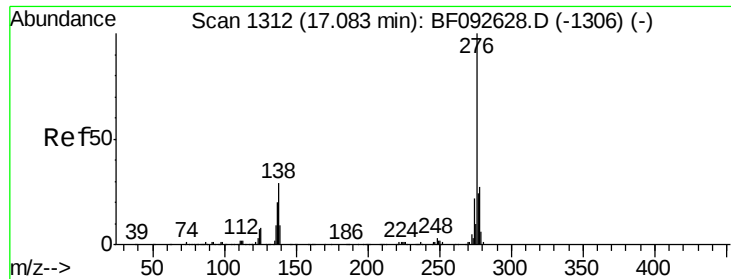
Tot Ion:228 Resp: 534027
Ion Ratio Lower Upper
228 100
226 29.7 22.4 33.6
229 20.1 16.2 24.4



#82
Chrysene
Concen: 21.90 ng
RT: 14.01 min Scan# 1043
Delta R.T. -0.03 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Tgt Ion:228 Resp: 337084
Ion Ratio Lower Upper
228 100
226 30.9 25.4 38.0
229 22.5 16.2 24.2

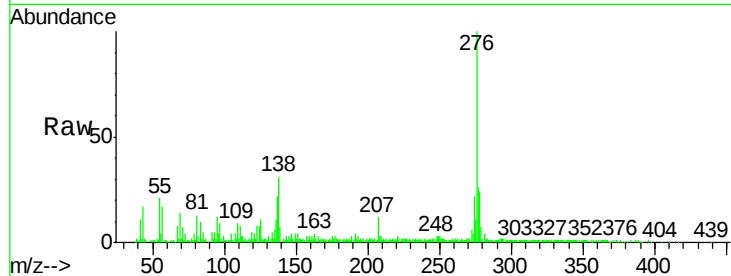




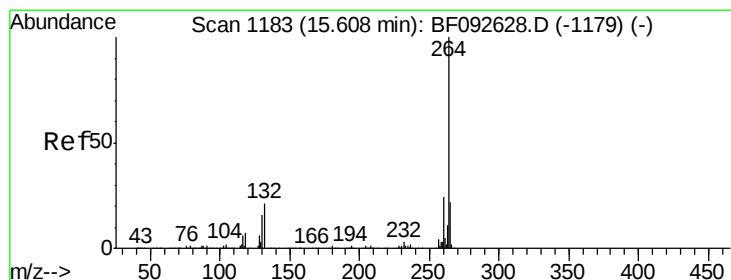
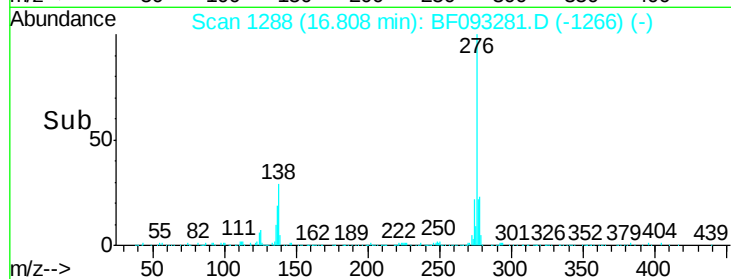
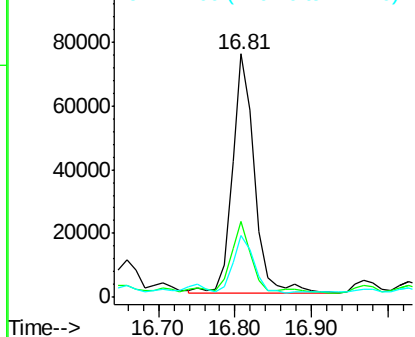
#85
Indeno(1,2,3-cd)pyrene
Concen: 12.56 ng
RT: 16.81 min Scan# 1288
Delta R.T. -0.05 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:276 Resp: 149814
Ion Ratio Lower Upper
276 100
138 28.6 21.8 32.6
277 22.5 20.2 30.4

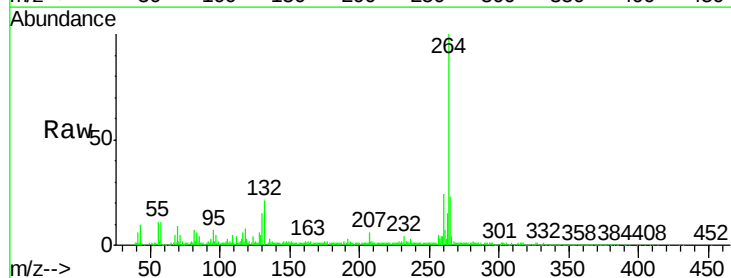


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

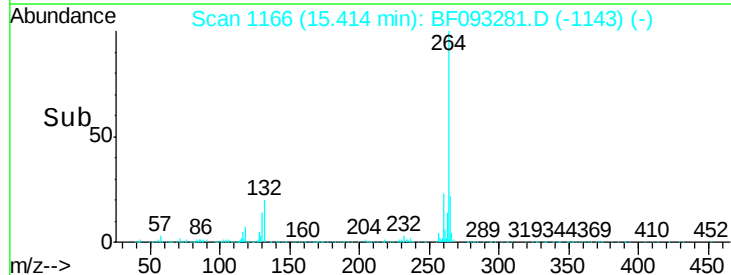
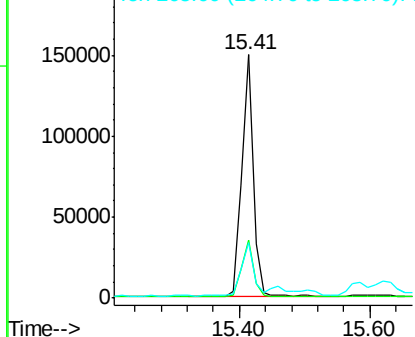


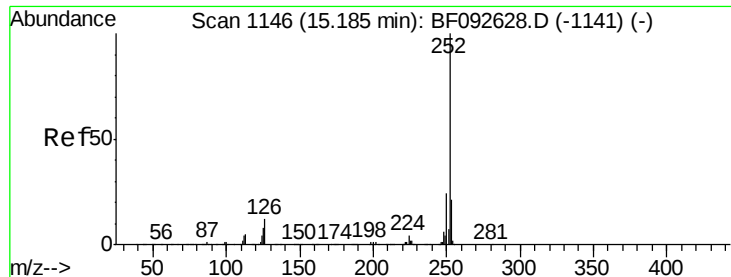
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.03 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Tgt Ion:264 Resp: 182584
Ion Ratio Lower Upper
264 100
260 24.0 19.2 28.8
265 22.7 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: 42.31 ng

RT: 15.00 min Scan# 1130

Delta R.T. -0.03 min

Lab File: BF093281.D

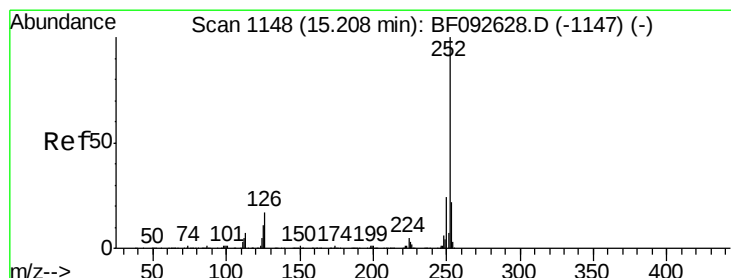
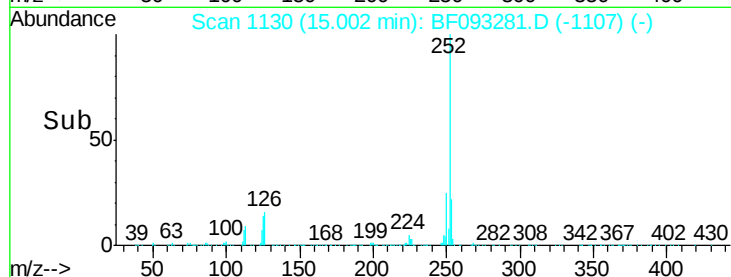
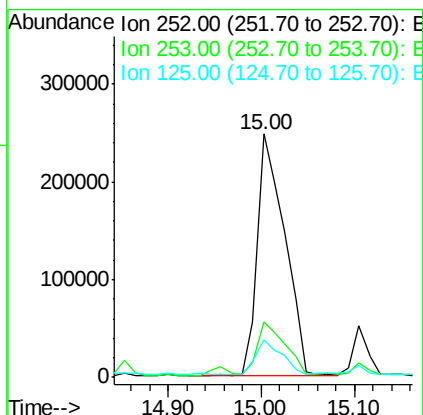
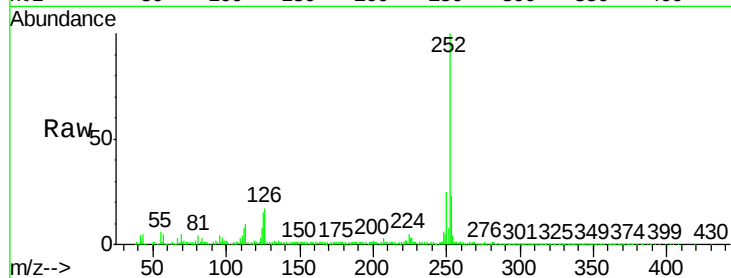
Acq: 1 Mar 2017 8:45

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	508529
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.2	27.4
125	15.2	9.8	14.6#



#88

Benzo(k)fluoranthene

Concen: 49.01 ng

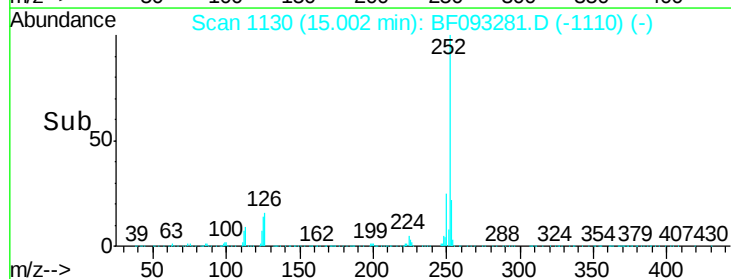
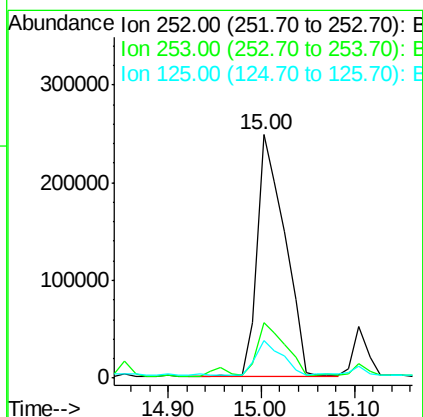
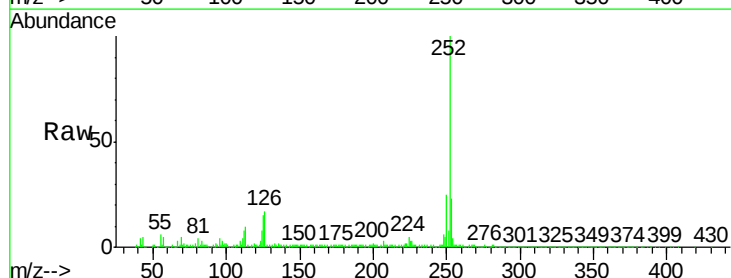
RT: 15.00 min Scan# 1130

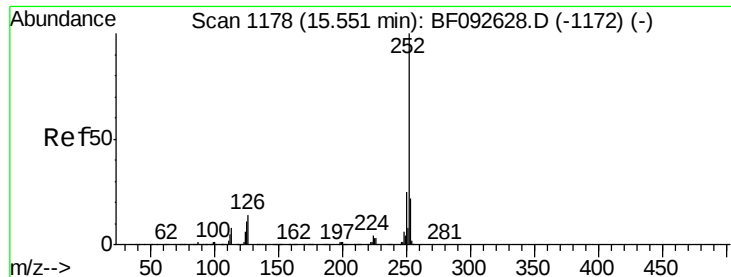
Delta R.T. -0.07 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

Tgt Ion:	252	Resp:	508529
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.5	27.7
125	15.2	8.9	13.3#

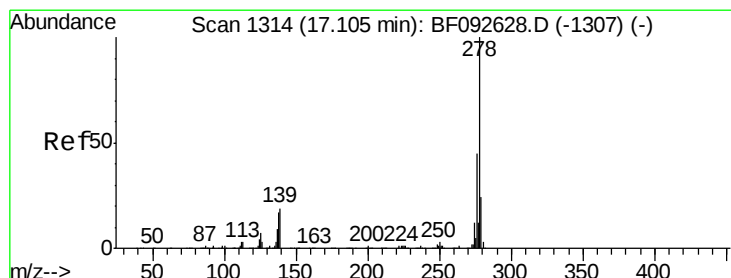
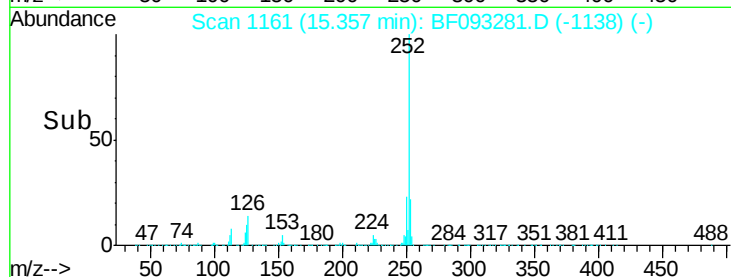
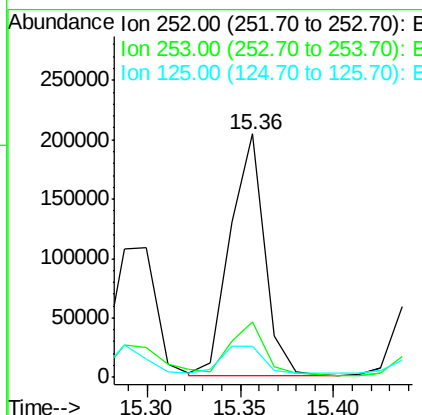
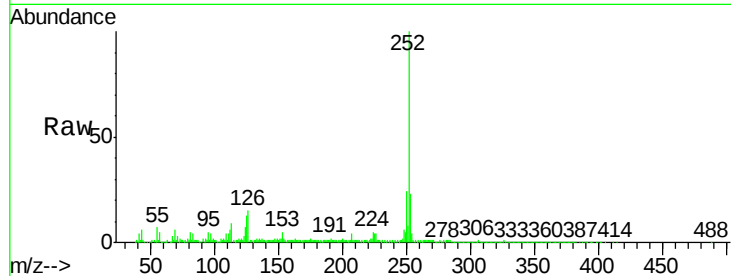




#89
Benzo(a)pyrene
Concen: 25.08 ng
RT: 15.36 min Scan# 1161
Delta R.T. -0.03 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

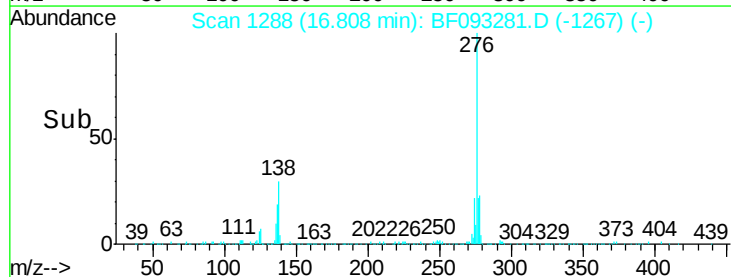
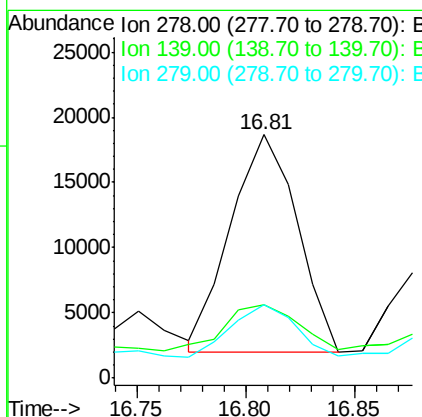
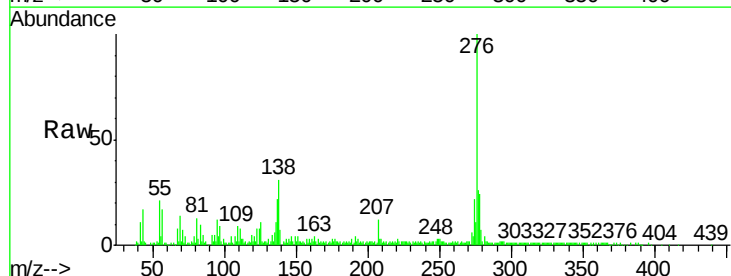
Instrument :
BNA_F
ClientSampleId :

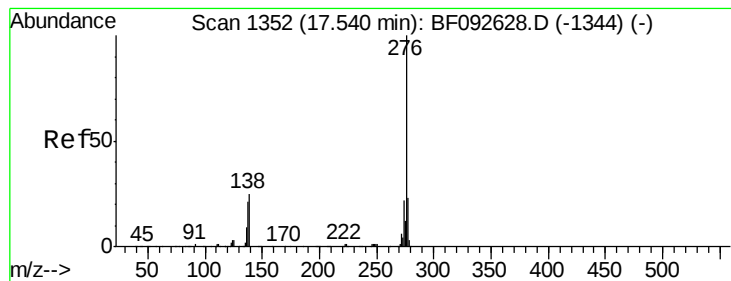
Tot Ion:252 Resp: 260704
Ion Ratio Lower Upper
252 100
253 22.7 18.2 27.2
125 12.9 10.0 15.0



#90
Dibenzo(a,h)anthracene
Concen: 4.23 ng
RT: 16.81 min Scan# 1288
Delta R.T. -0.06 min
Lab File: BF093281.D
Acq: 1 Mar 2017 8:45

Tgt Ion:278 Resp: 35578
Ion Ratio Lower Upper
278 100
139 30.2 14.8 22.2#
279 30.3 19.8 29.6#





#91

Benzo(a,h,i)perylene

Concen: 15.10 ng

RT: 17.23 min Scan# 1325

Delta R.T. -0.06 min

Lab File: BF093281.D

Acq: 1 Mar 2017 8:45

Instrument :

BNA_F

ClientSampleId :

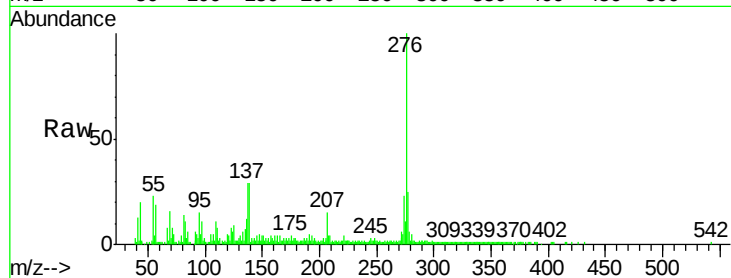
Tot Ion:276 Resp: 128202

Ion Ratio Lower Upper

276 100

277 25.5 19.2 28.8

138 29.2 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

