

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\
 Data File : BF079363.D
 Acq On : 20 May 2015 3:31
 Operator : TP/IZ
 Sample : G2281-02
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-05

Quant Time: May 20 06:31:52 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 20 05:08:22 2015
 Response via : Initial Calibration

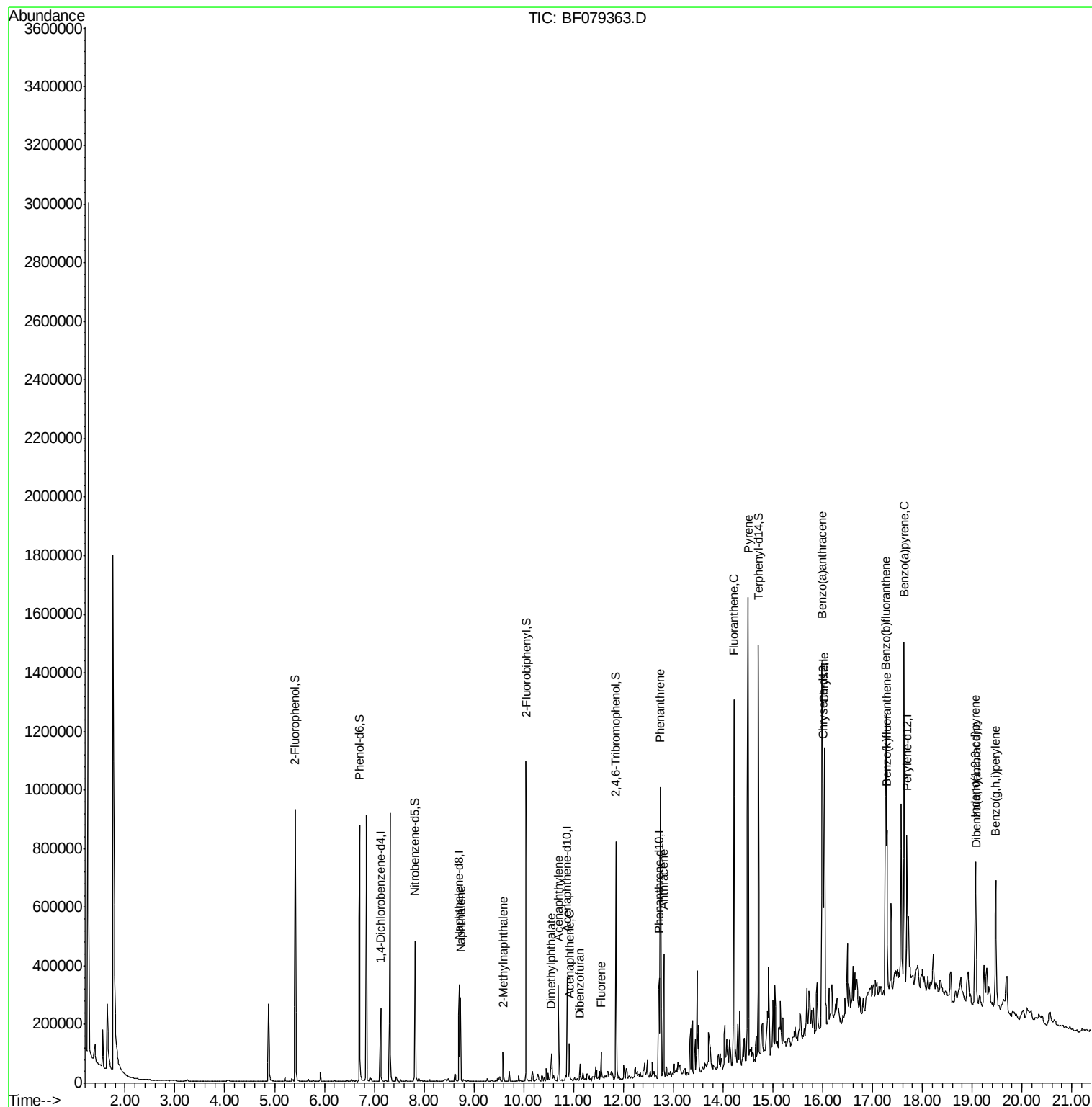
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.13	152	45923	20.00	ng	0.00
21) Naphthalene-d8	8.71	136	194393	20.00	ng	0.00
38) Acenaphthene-d10	10.87	164	94690	20.00	ng	-0.01
63) Phenanthrene-d10	12.72	188	181817	20.00	ng	0.00
75) Chrysene-d12	16.00	240	202196	20.00	ng	-0.02
86) Perylene-d12	17.69	264	228339	20.00	ng	-0.13
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	289807	108.63	ng	0.00
7) Phenol-d6	6.71	99	398437	112.99	ng	0.00
23) Nitrobenzene-d5	7.82	82	223757	66.15	ng	-0.01
41) 2,4,6-Tribromophenol	11.85	330	115317	112.57	ng	-0.01
44) 2-Fluorobiphenyl	10.04	172	445456	65.54	ng	-0.01
78) Terphenyl-d14	14.71	244	520461	61.63	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.73	128	126772	13.69	ng	99
37) 2-Methylnaphthalene	9.59	142	27280	4.25	ng	98
48) Acenaphthylene	10.70	152	149221	15.48	ng	98
49) Dimethylphthalate	10.56	163	35736	5.14	ng	99
51) Acenaphthene	10.91	154	29274	5.09	ng	99
54) Dibenzofuran	11.13	168	16846	2.03	ng	94
57) Fluorene	11.55	166	38619	5.67	ng	100
70) Phenanthrene	12.74	178	394406	38.78	ng	99
71) Anthracene	12.81	178	199551	20.00	ng	99
74) Fluoranthene	14.22	202	695630	65.63	ng	99
77) Pyrene	14.50	202	731254	62.76	ng	99
80) Benzo(a)anthracene	15.99	228	495339m	44.74	ng	
82) Chrysene	16.03	228	402996	37.84	ng	97
85) Indeno(1,2,3-cd)pyrene	19.06	276	346471	25.53	ng	96
87) Benzo(b)fluoranthene	17.27	252	581937m	46.56	ng	
88) Benzo(k)fluoranthene	17.29	252	220828m	18.25	ng	
89) Benzo(a)pyrene	17.63	252	498344	43.30	ng	98
90) Dibenzo(a,h)anthracene	19.07	278	80173m	6.56	ng	
91) Benzo(a,h,i)perylene	19.47	276	354999	28.96	ng	97

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

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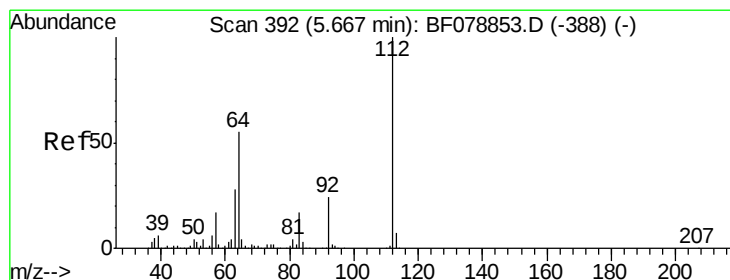
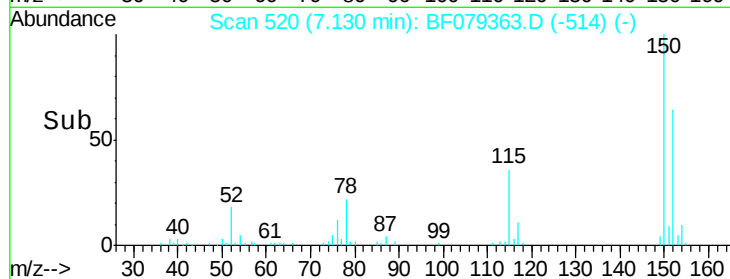
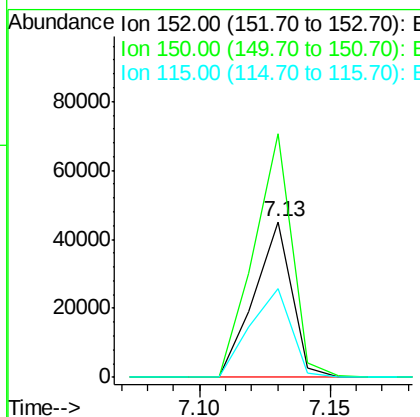
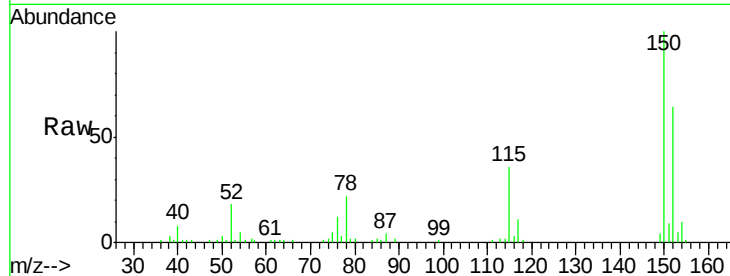




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.13 min Scan# 520
 Delta R.T. -0.00 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

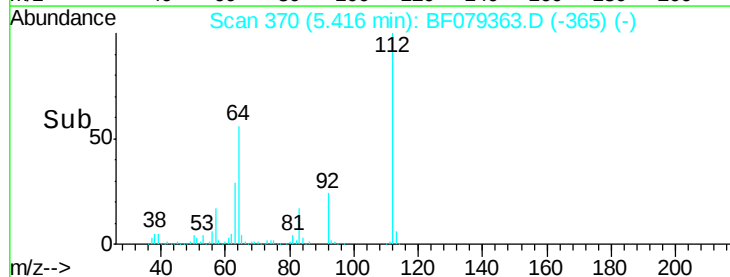
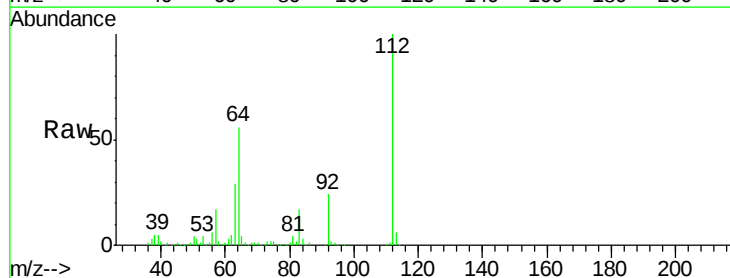
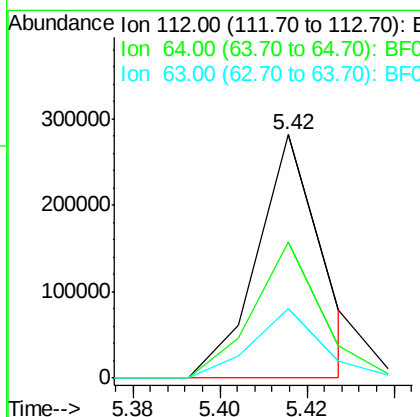
Instrument :
 BNA_F
 ClientSampleId :
 SB-05

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	123.8	185.8
115	57.1	49.4	74.0



#5
 2-Fluorophenol
 Concen: 108.63 ng
 RT: 5.42 min Scan# 370
 Delta R.T. -0.00 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	44.2	66.2
63	28.6	22.7	34.1





#7

Phenol-d6

Concen: 112.99 ng

RT: 6.71 min Scan# 483

Delta R.T. -0.00 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampleId :

SB-05

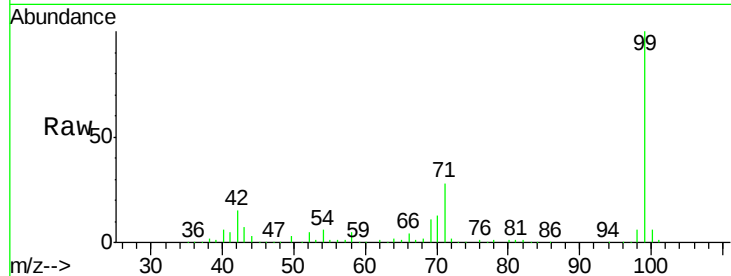
Tot Ion: 99 Resp: 398437

Ion Ratio Lower Upper

99 100

42 14.7 17.1 25.7#

71 28.0 26.3 39.5



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

400000

300000

200000

100000

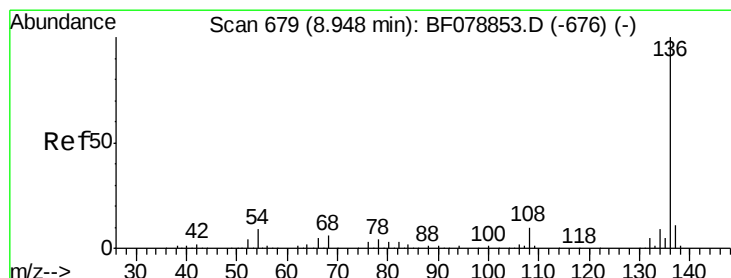
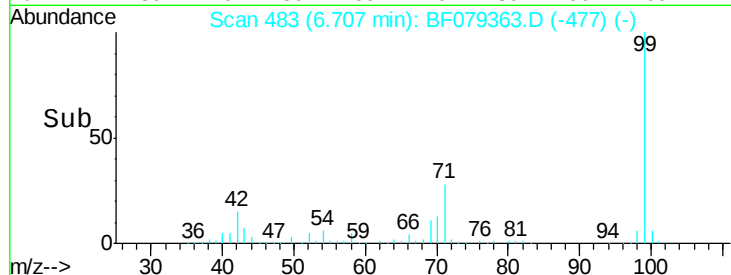
0

6.65

6.70

6.75

Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Tgt Ion: 136 Resp: 194393

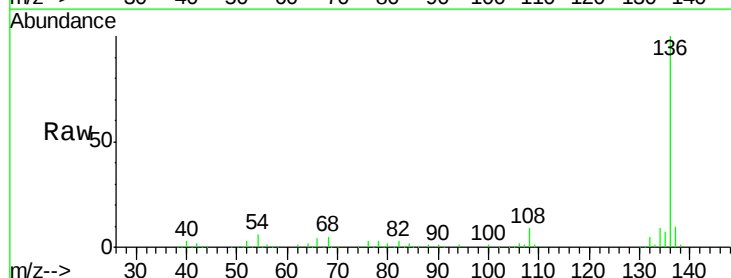
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 5.8 6.9 10.3#

68 4.7 4.9 7.3#



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

250000

200000

150000

100000

50000

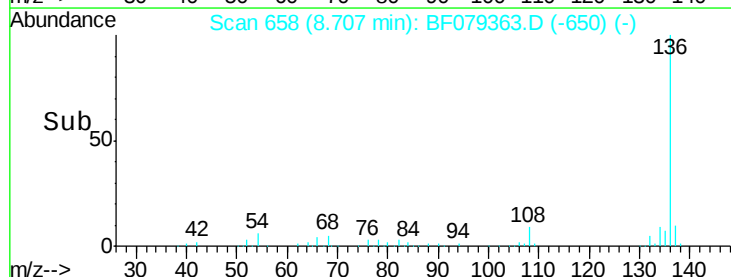
0

8.65

8.70

8.75

Time-->

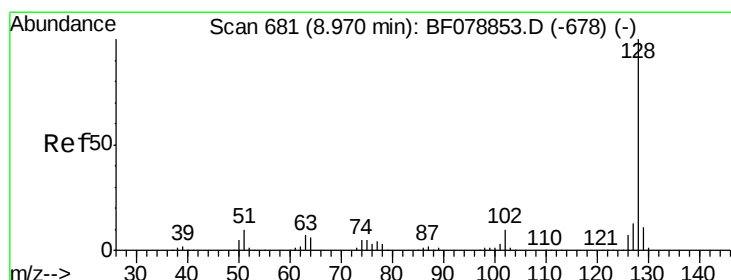
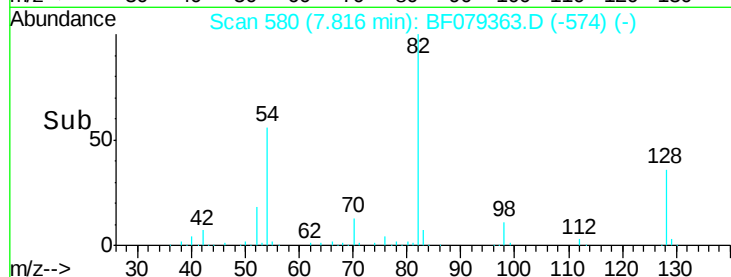
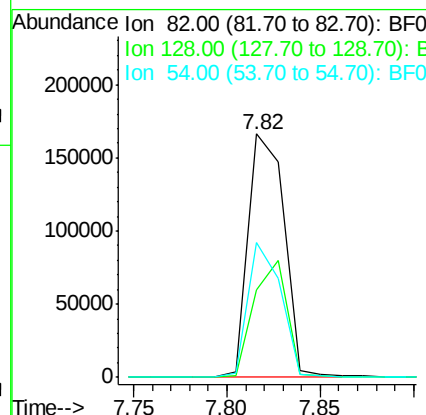
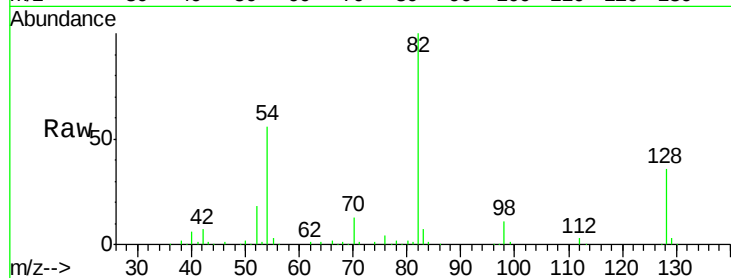




#23
 Nitrobenzene-d5
 Concen: 66.15 ng
 RT: 7.82 min Scan# 580
 Delta R.T. -0.01 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

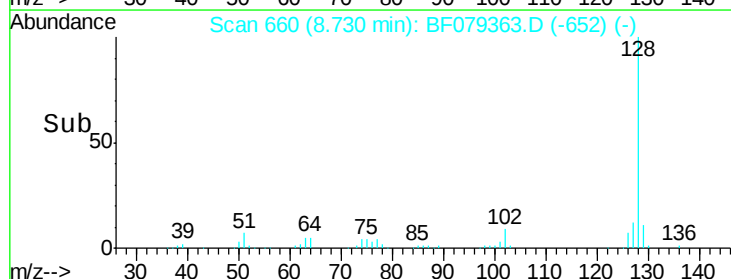
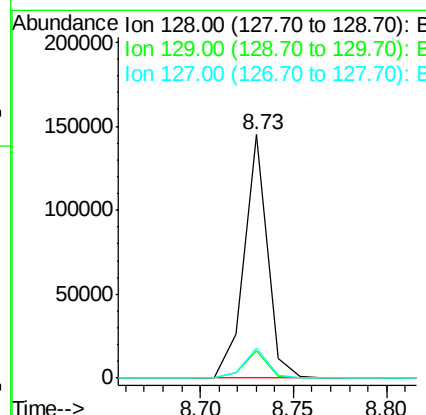
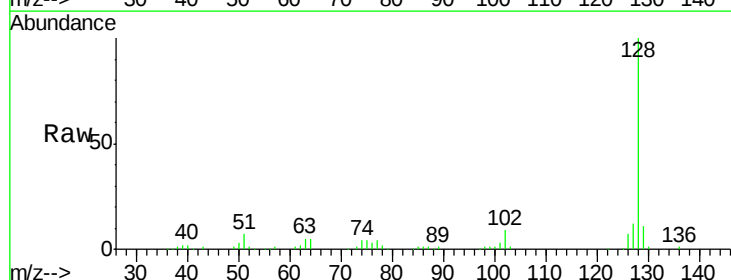
Instrument :
 BNA_F
 ClientSampled :
 SB-05

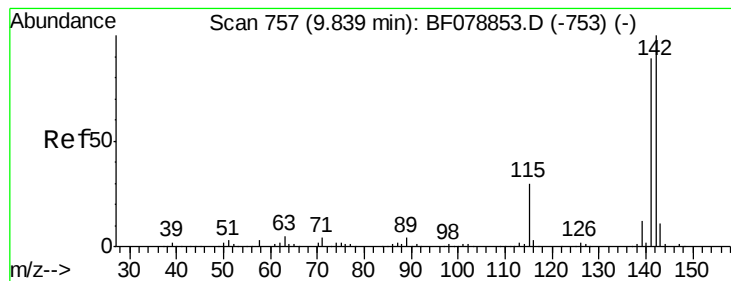
Tot Ion	82	Resp	223757
Ion Ratio	100	Lower	Upper
128	36.1	29.7	44.5
54	55.6	46.2	69.4



#31
 Naphthalene
 Concen: 13.69 ng
 RT: 8.73 min Scan# 660
 Delta R.T. -0.00 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

Tgt Ion	128	Resp	126772
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
129	11.2	9.2	13.8
127	12.3	10.3	15.5





#37

2-Methylnaphthalene

Concen: 4.25 ng

RT: 9.59 min Scan# 735

Delta R.T. -0.00 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampleId :

SB-05

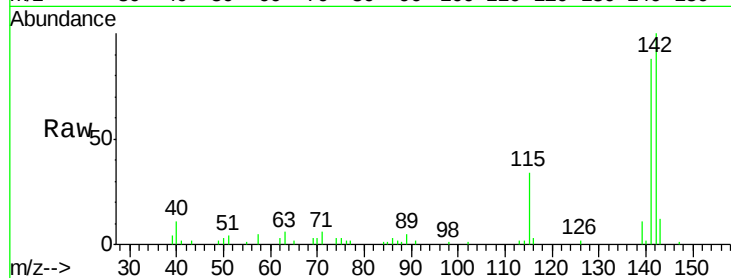
Tot Ion:142 Resp: 27280

Ion Ratio Lower Upper

142 100

141 88.4 71.6 107.4

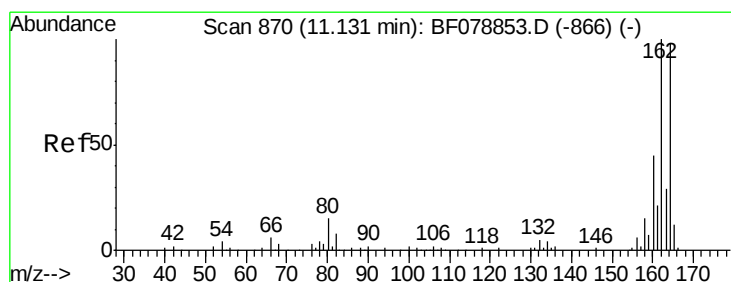
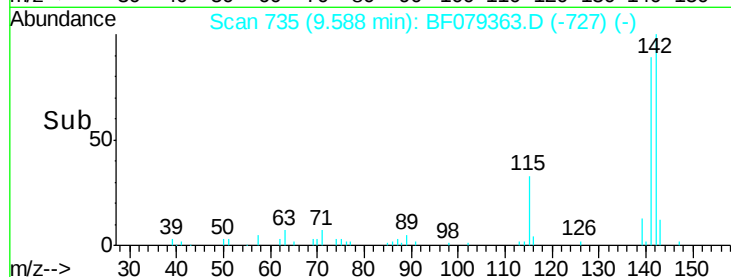
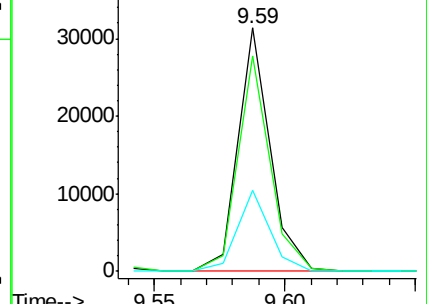
115 33.5 24.2 36.4



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: 10.87 min Scan# 847

Delta R.T. -0.01 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

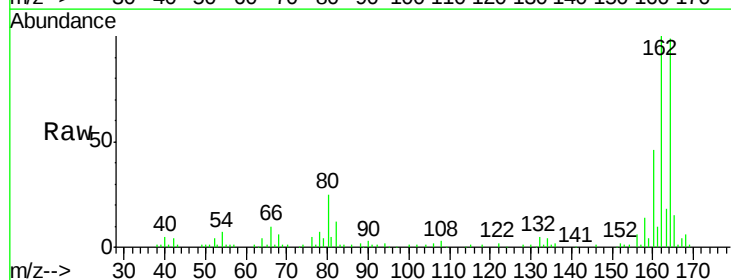
Tgt Ion:164 Resp: 94690

Ion Ratio Lower Upper

164 100

162 101.5 81.4 122.0

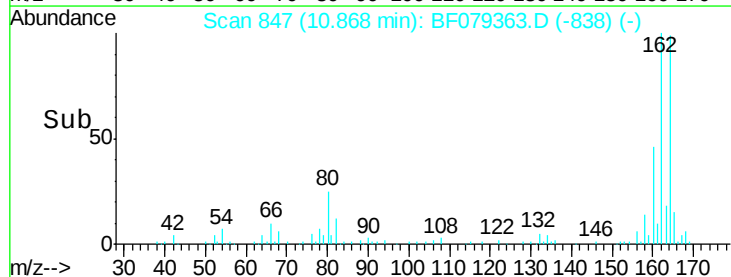
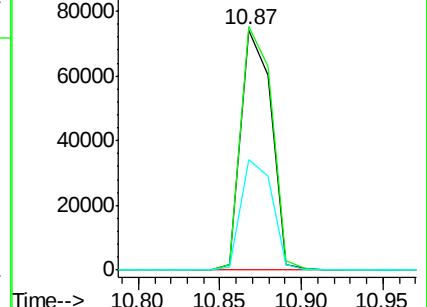
160 46.2 36.6 54.8

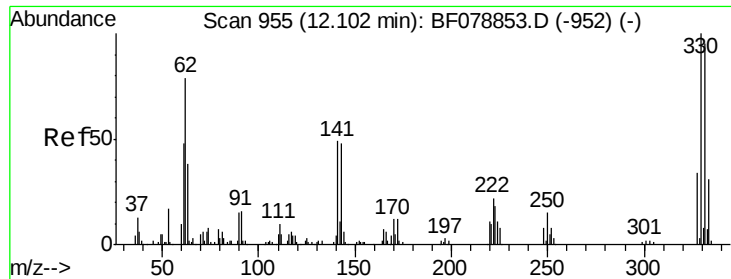


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

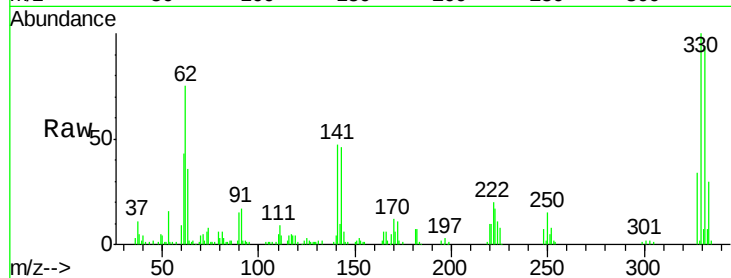




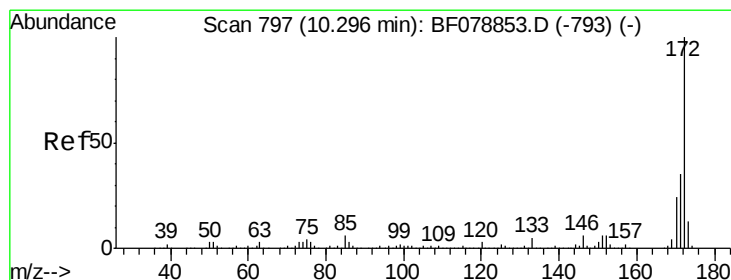
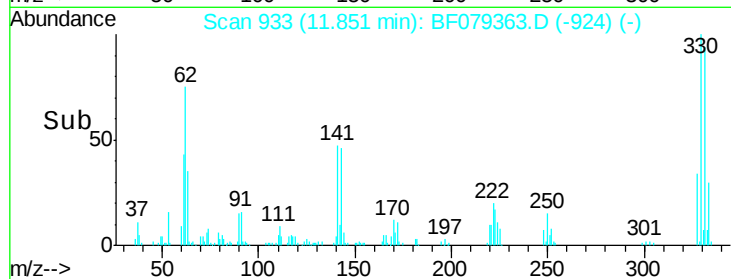
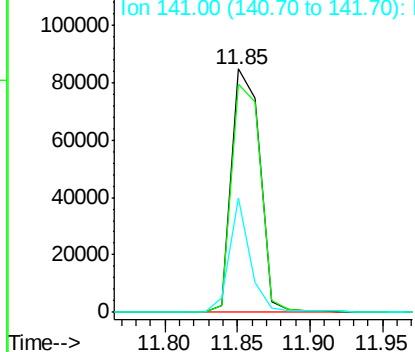
#41
 2,4,6-Tribromophenol
 Concen: 112.57 ng
 RT: 11.85 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

Instrument :
 BNA_F
 ClientSampleId :
 SB-05

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.9	115.3
141	35.4	27.8	41.8

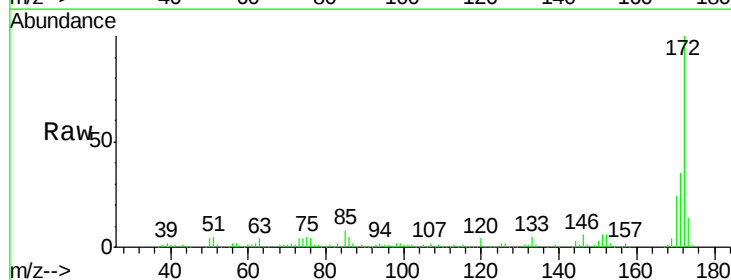


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

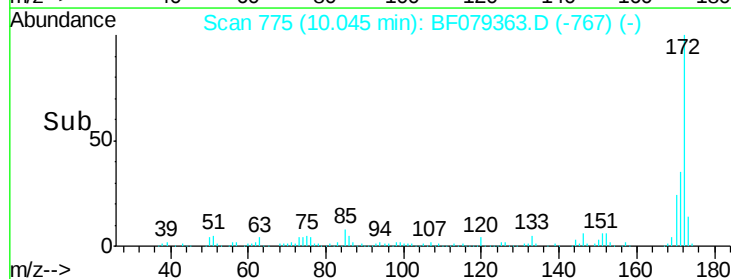
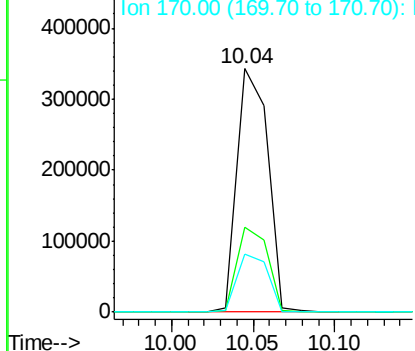


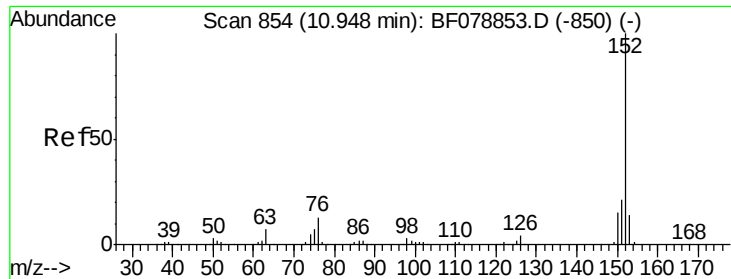
#44
 2-Fluorobiphenyl
 Concen: 65.54 ng
 RT: 10.04 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.3	42.5
170	23.9	19.4	29.2



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: 15.48 ng

RT: 10.70 min Scan# 832

Delta R.T. -0.01 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampleId :

SB-05

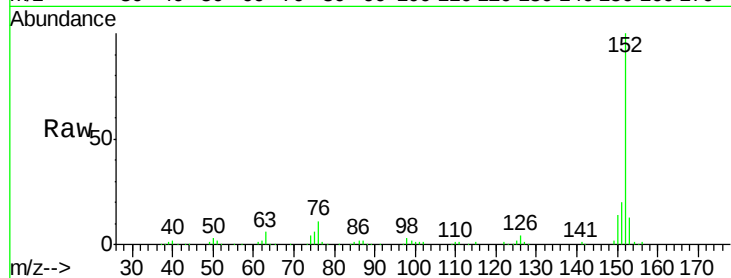
Tot Ion:152 Resp: 149221

Ion Ratio Lower Upper

152 100

151 19.9 16.6 24.8

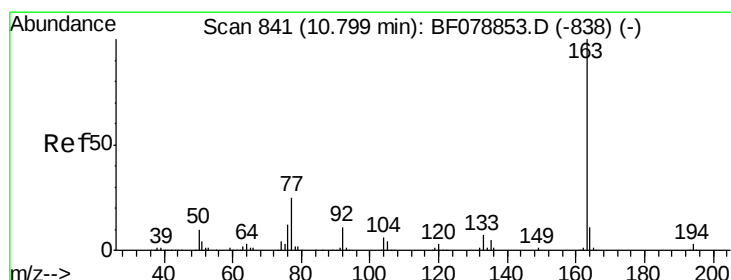
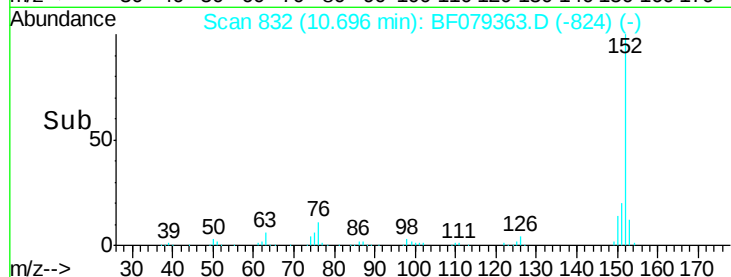
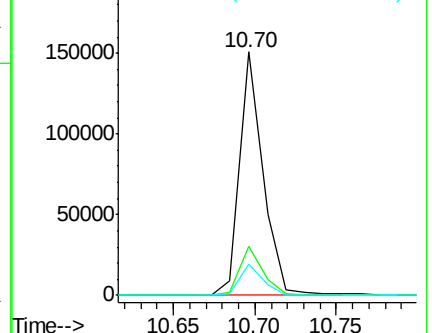
153 12.9 11.0 16.6



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: 5.14 ng

RT: 10.56 min Scan# 820

Delta R.T. -0.01 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

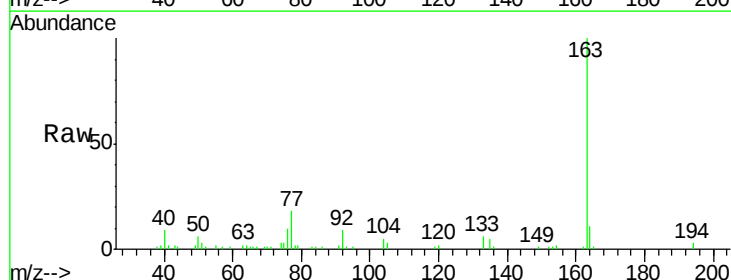
Tgt Ion:163 Resp: 35736

Ion Ratio Lower Upper

163 100

194 3.3 2.4 3.6

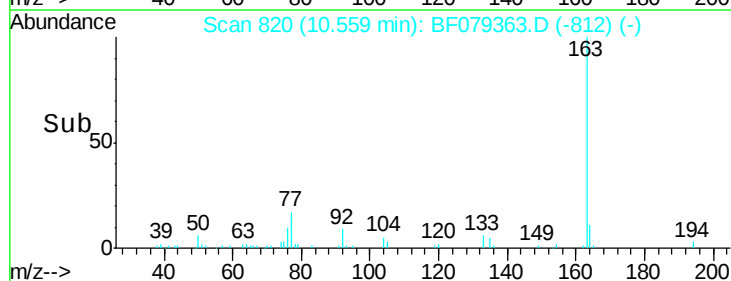
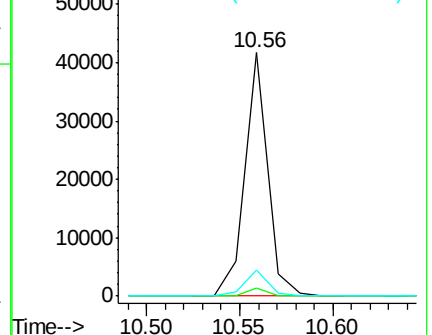
164 10.9 8.6 12.8

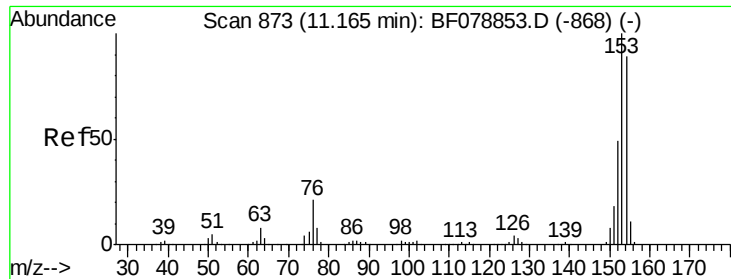


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 5.09 ng

RT: 10.91 min Scan# 851

Delta R.T. -0.00 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampleId :

SB-05

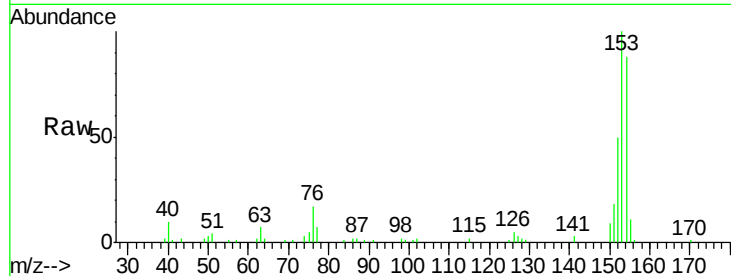
Tot Ion:154 Resp: 29274

Ion Ratio Lower Upper

154 100

153 113.2 90.2 135.2

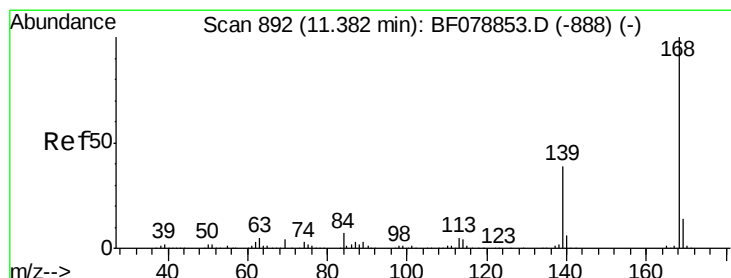
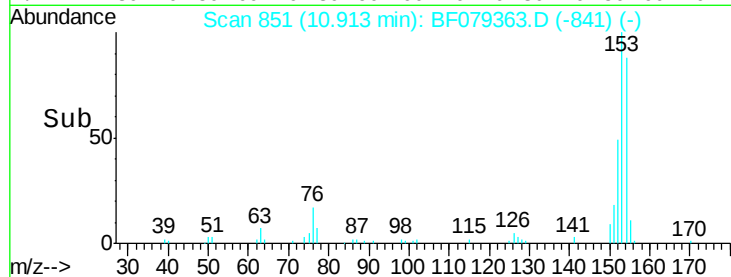
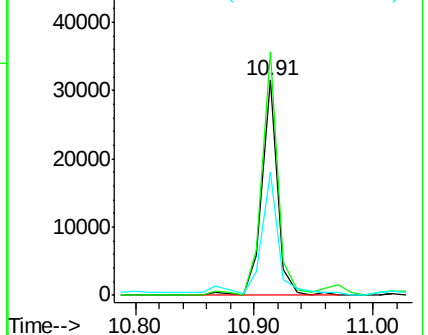
152 57.1 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.03 ng

RT: 11.13 min Scan# 870

Delta R.T. -0.00 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

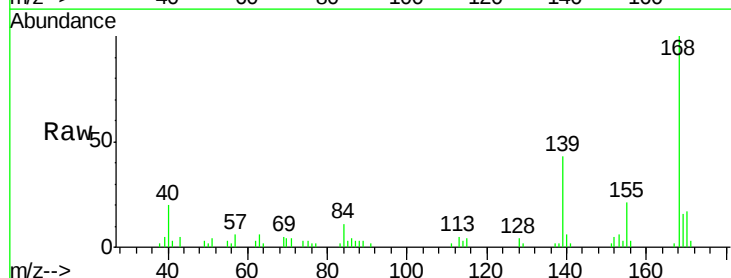
Tgt Ion:168 Resp: 16846

Ion Ratio Lower Upper

168 100

139 43.2 31.5 47.3

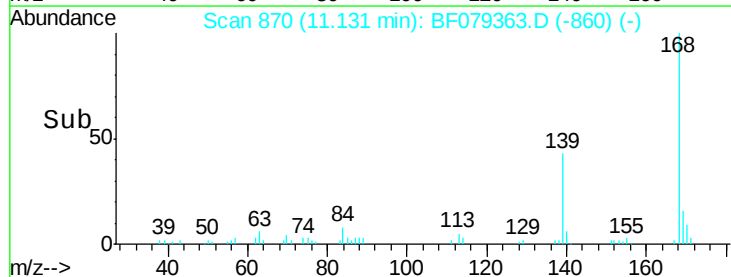
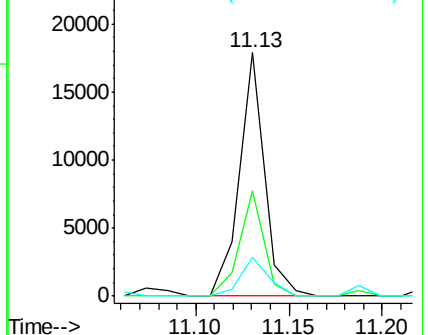
169 16.1 11.0 16.4

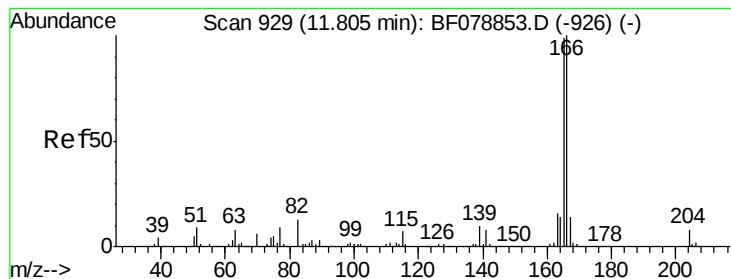


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 5.67 ng

RT: 11.55 min Scan# 907

Delta R.T. -0.00 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampleId :

SB-05

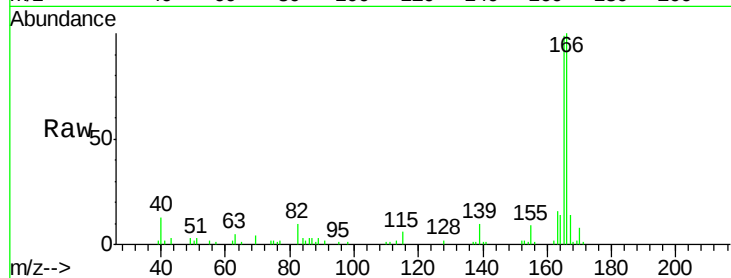
Tot Ion:166 Resp: 38619

Ion Ratio Lower Upper

166 100

165 99.1 79.5 119.3

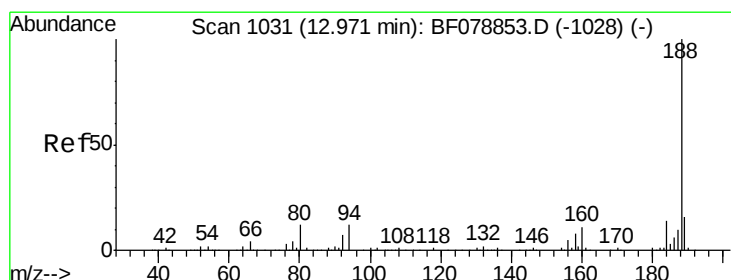
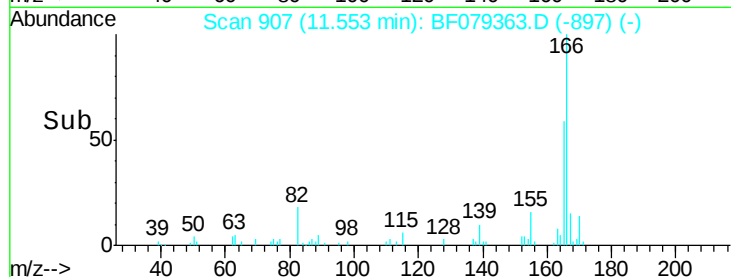
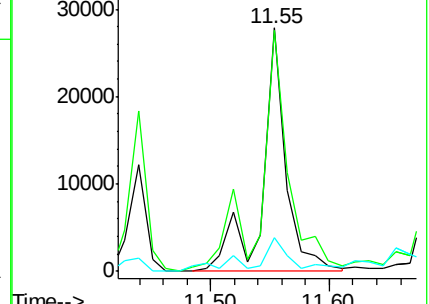
167 13.8 11.0 16.6



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: 12.72 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

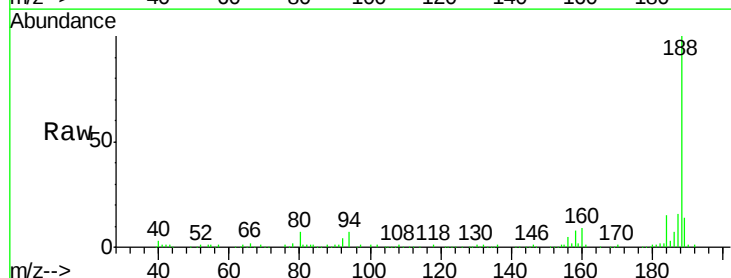
Tgt Ion:188 Resp: 181817

Ion Ratio Lower Upper

188 100

94 7.4 9.4 14.0#

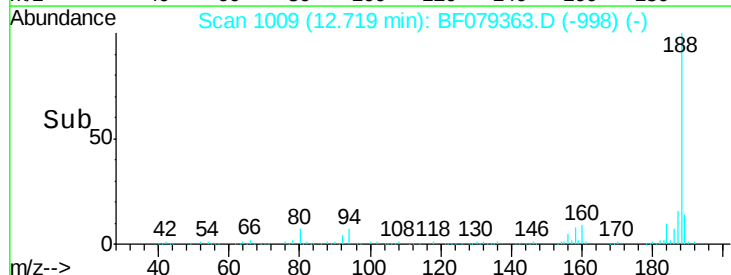
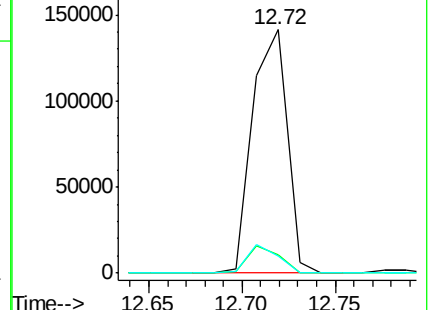
80 7.2 9.8 14.6#

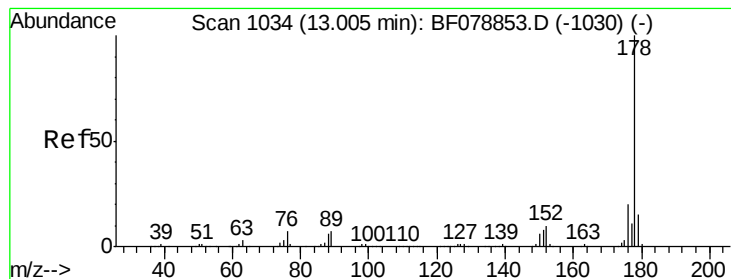


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 38.78 ng

RT: 12.74 min Scan# 1011

Delta R.T. -0.00 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampleId :

SB-05

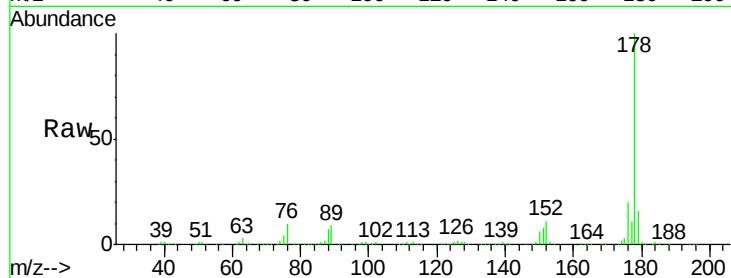
Tot Ion:178 Resp: 394406

Ion Ratio Lower Upper

178 100

176 19.9 15.9 23.9

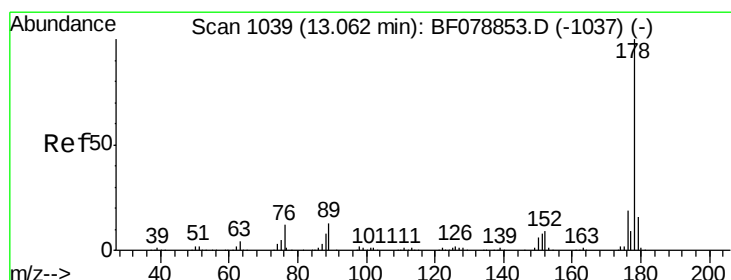
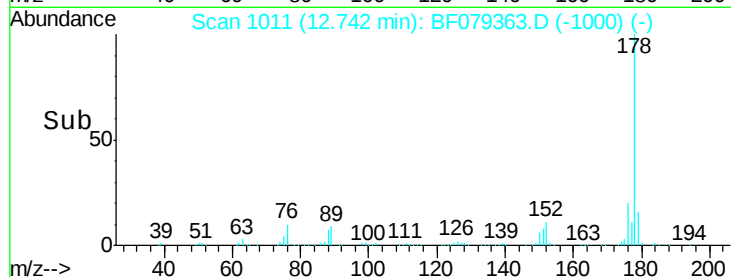
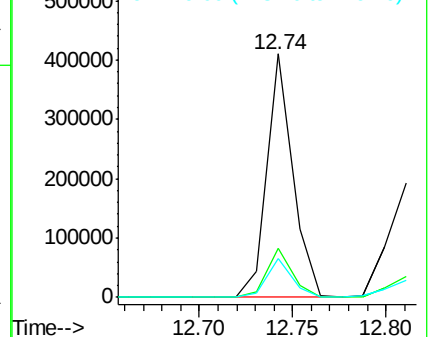
179 16.0 12.2 18.4



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: 20.00 ng

RT: 12.81 min Scan# 1017

Delta R.T. -0.00 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

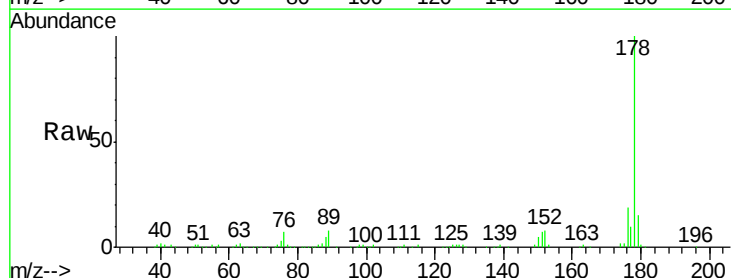
Tgt Ion:178 Resp: 199551

Ion Ratio Lower Upper

178 100

176 18.7 15.3 22.9

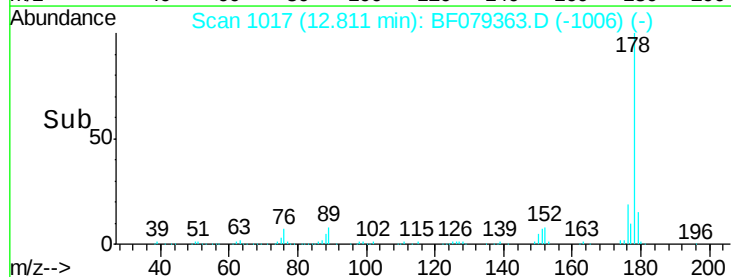
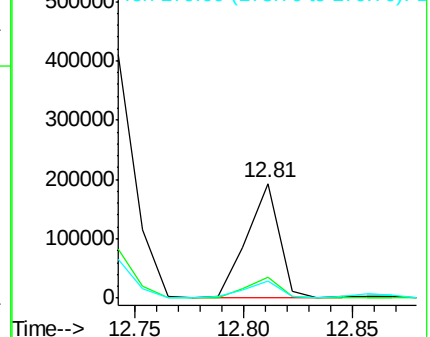
179 15.1 12.6 19.0

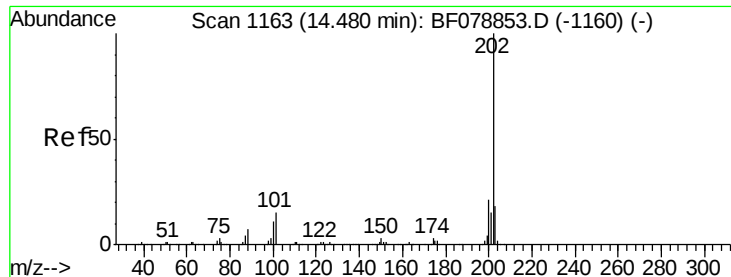


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 65.63 ng

RT: 14.22 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampleId :

SB-05

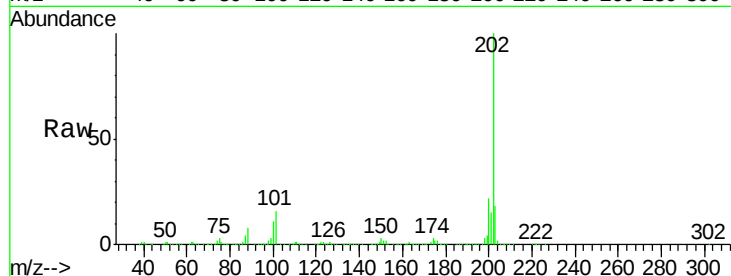
Tot Ion:202 Resp: 695630

Ion Ratio Lower Upper

202 100

101 15.5 0.0 34.7

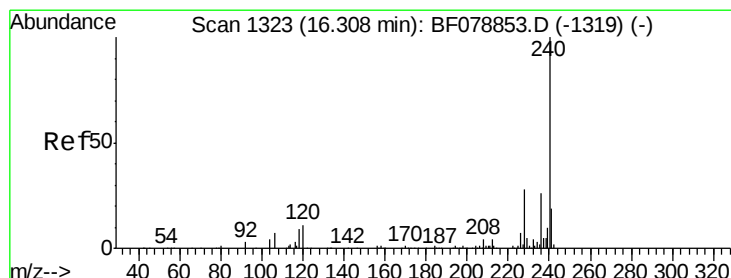
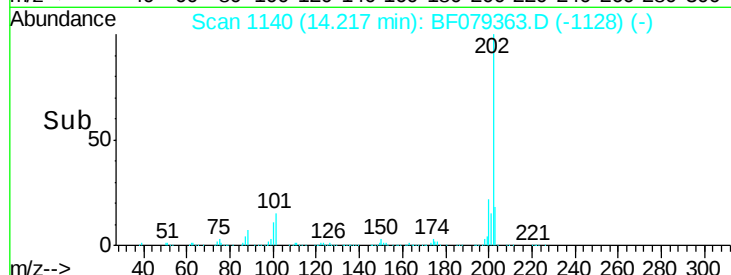
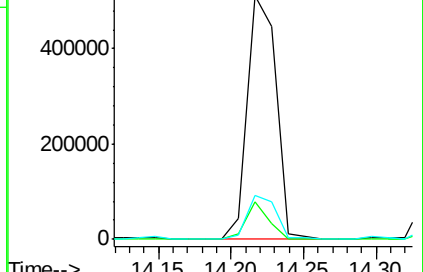
203 18.2 0.0 37.9



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: 16.00 min Scan# 1296

Delta R.T. -0.02 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

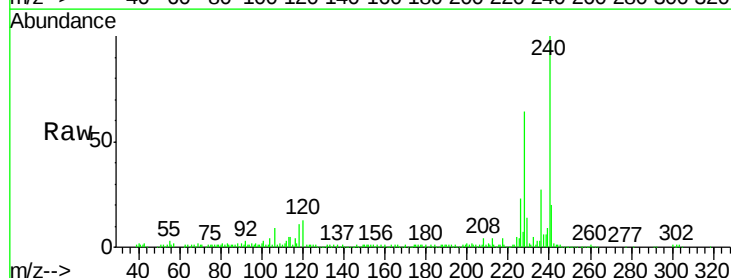
Tgt Ion:240 Resp: 202196

Ion Ratio Lower Upper

240 100

120 13.2 8.6 12.8#

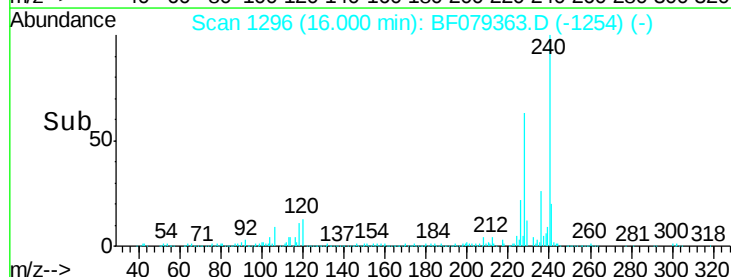
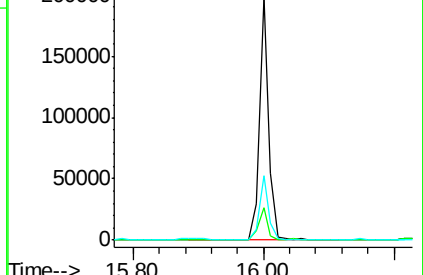
236 26.5 21.0 31.6

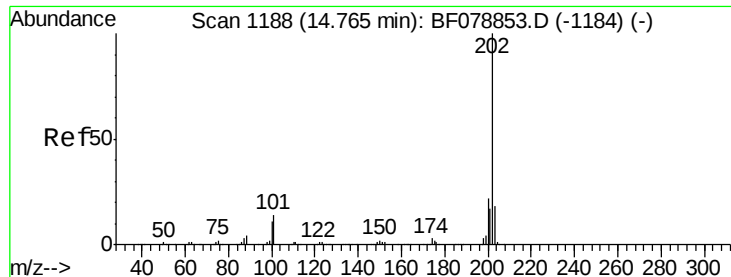


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 62.76 ng

RT: 14.50 min Scan# 1165

Delta R.T. -0.00 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampleId :

SB-05

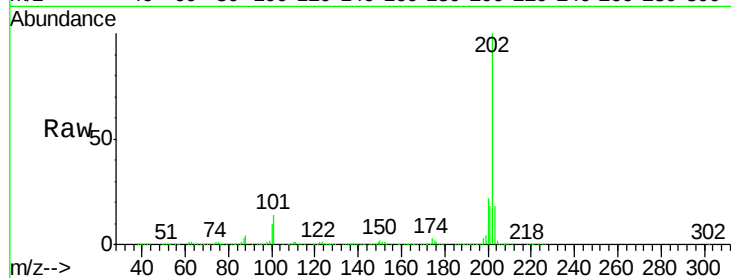
Tot Ion:202 Resp: 731254

Ion Ratio Lower Upper

202 100

200 21.8 17.5 26.3

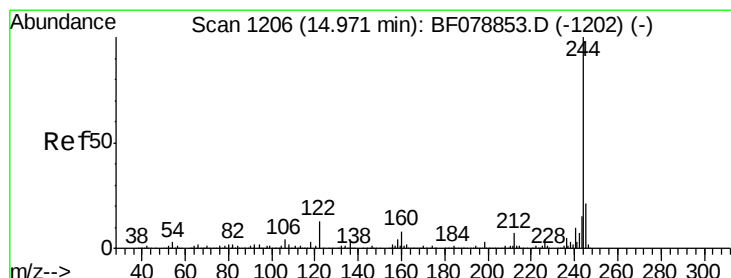
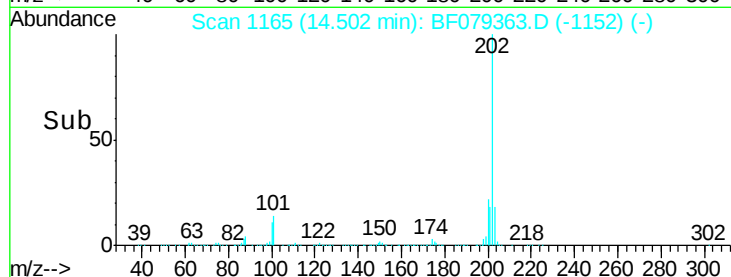
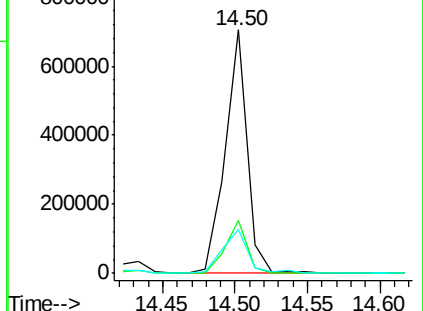
203 18.0 14.7 22.1



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: 61.63 ng

RT: 14.71 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

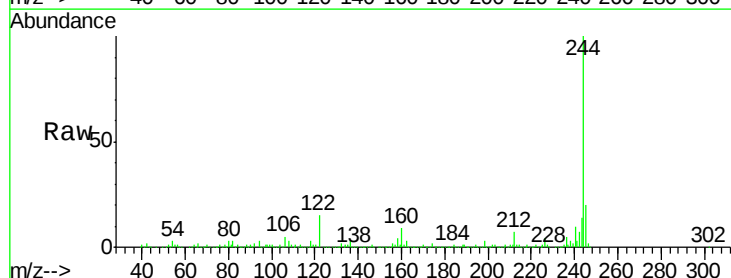
Tgt Ion:244 Resp: 520461

Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

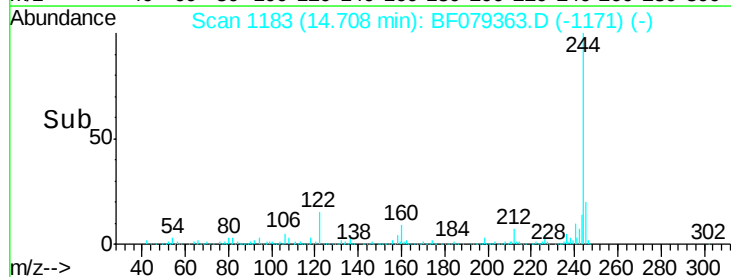
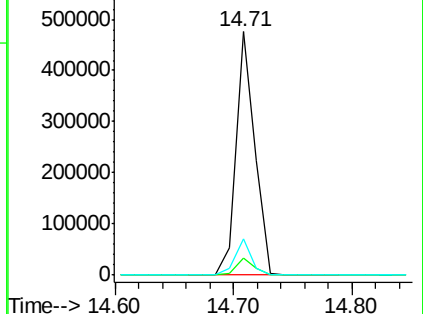
122 14.7 10.5 15.7

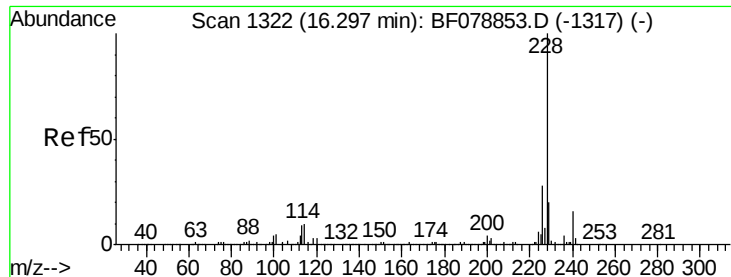


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 44.74 ng

RT: 15.99 min Scan# 1295

Delta R.T. -0.02 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampled :

SB-05

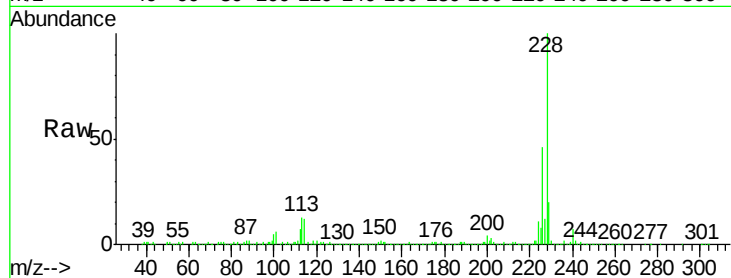
Tot Ion:228 Resp: 495339

Ion Ratio Lower Upper

228 100

226 45.6 22.3 33.5#

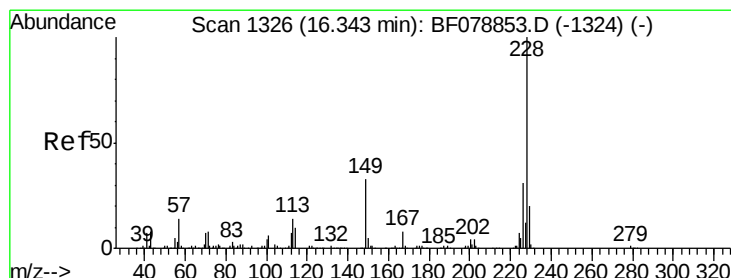
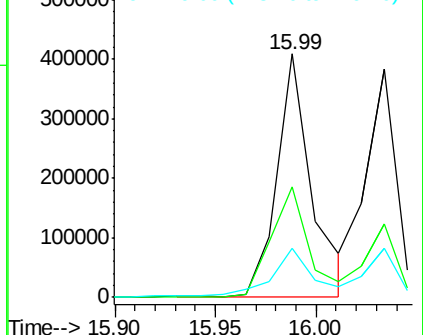
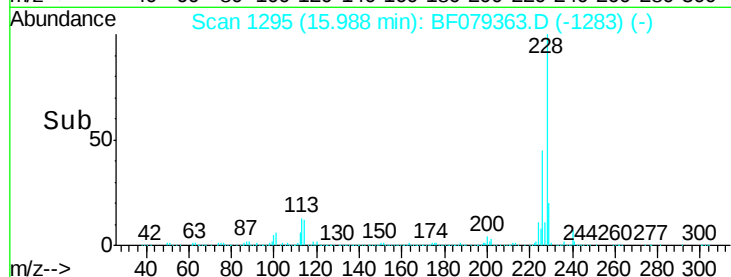
229 20.2 16.1 24.1



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: 37.84 ng

RT: 16.03 min Scan# 1299

Delta R.T. -0.02 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

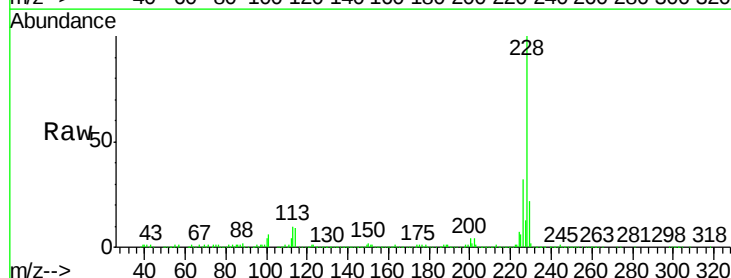
Tgt Ion:228 Resp: 402996

Ion Ratio Lower Upper

228 100

226 32.0 24.8 37.2

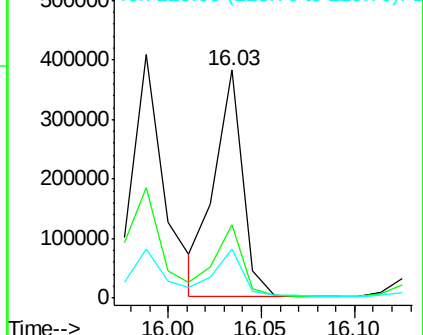
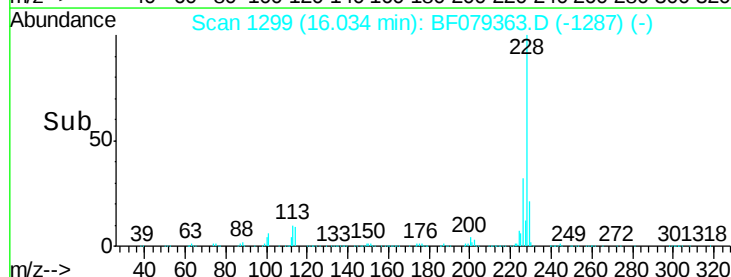
229 21.8 16.1 24.1

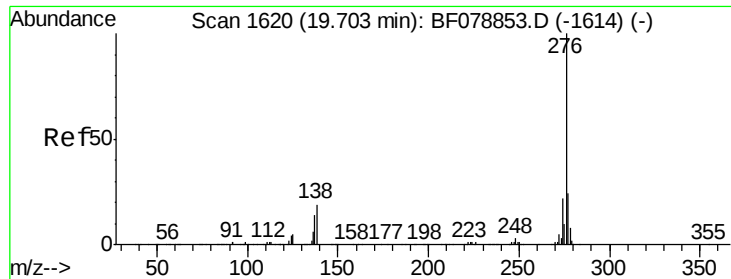


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

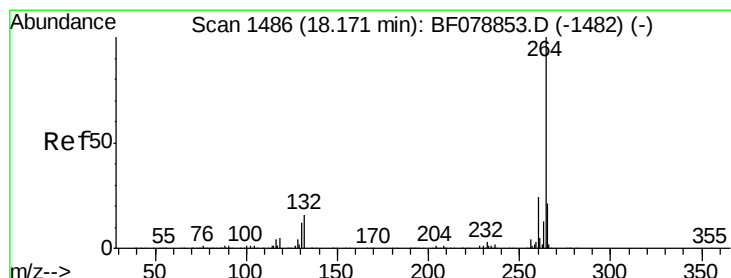
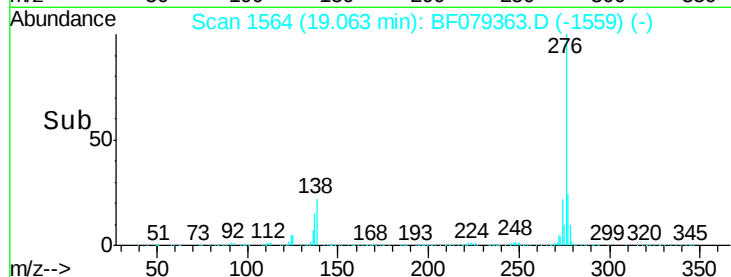
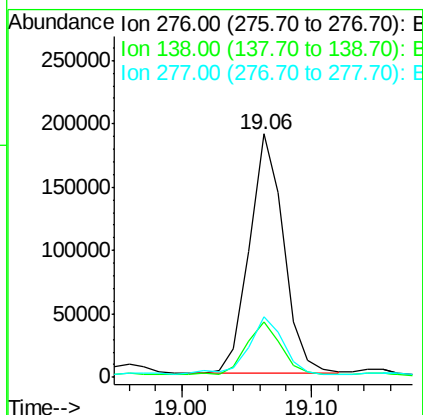
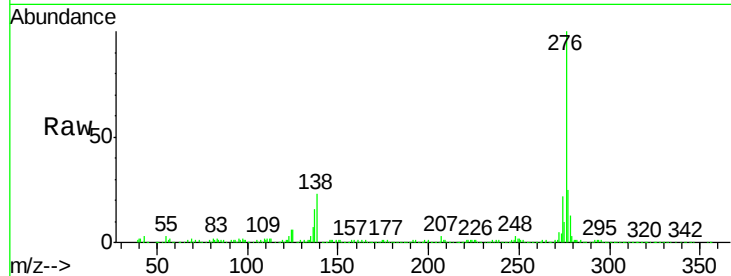




#85
Indeno(1,2,3-cd)pyrene
Concen: 25.53 ng
RT: 19.06 min Scan# 1564
Delta R.T. -0.15 min
Lab File: BF079363.D
Acq: 20 May 2015 3:31

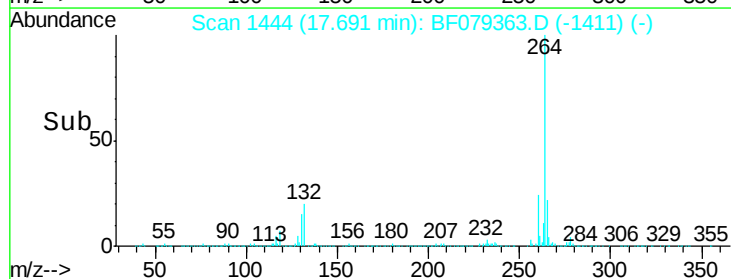
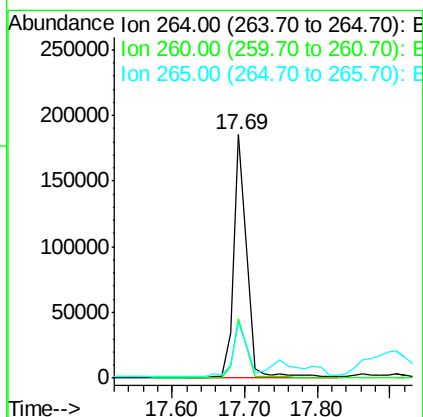
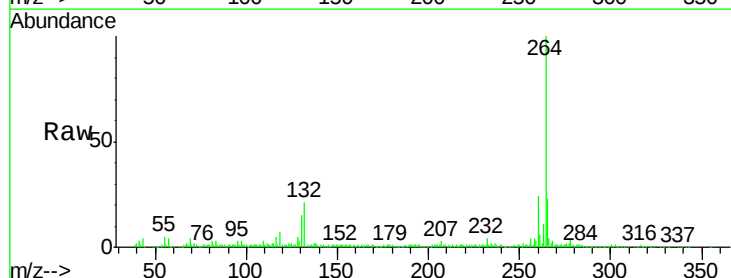
Instrument :
BNA_F
ClientSampleId :
SB-05

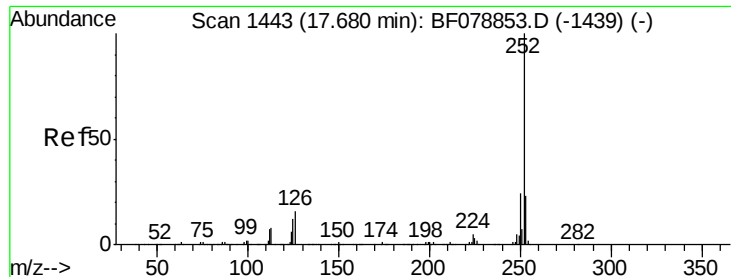
Tot Ion:276 Resp: 346471
Ion Ratio Lower Upper
276 100
138 22.4 21.1 31.7
277 25.0 19.9 29.9



#86
Perylene-d12
Concen: 20.00 ng
RT: 17.69 min Scan# 1444
Delta R.T. -0.13 min
Lab File: BF079363.D
Acq: 20 May 2015 3:31

Tgt Ion:264 Resp: 228339
Ion Ratio Lower Upper
264 100
260 24.2 19.2 28.8
265 22.7 17.2 25.8

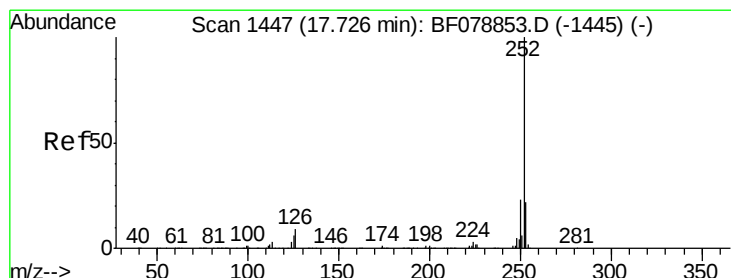
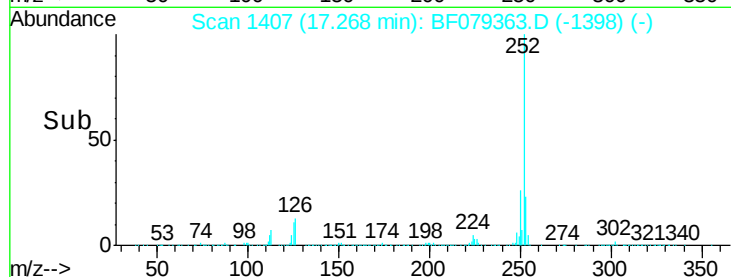
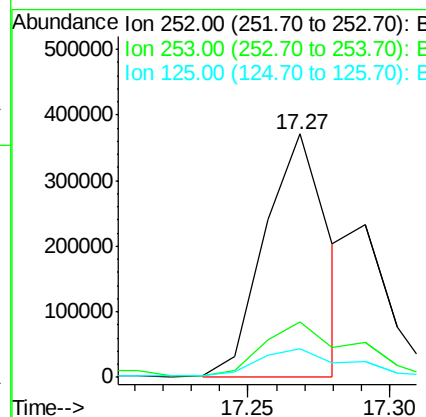
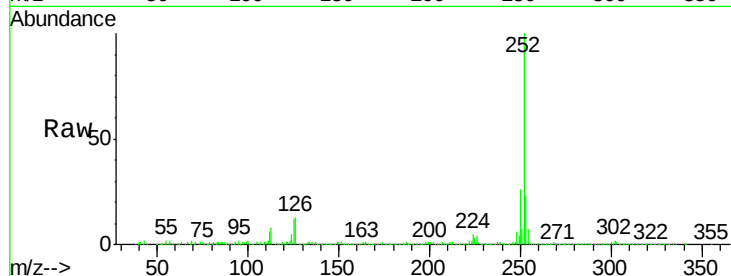




#87
Benzo(b)fluoranthene
Concen: 46.56 ng m
RT: 17.27 min Scan# 1407
Delta R.T. -0.08 min
Lab File: BF079363.D
Acq: 20 May 2015 3:31

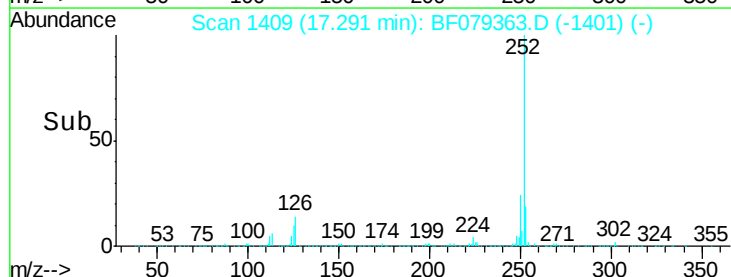
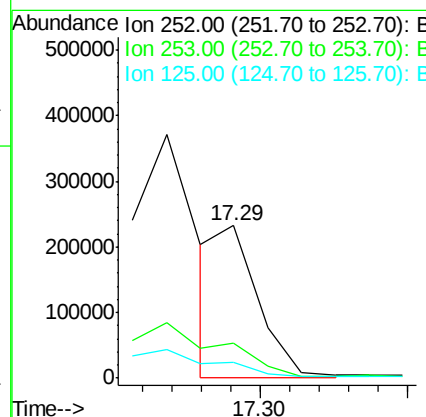
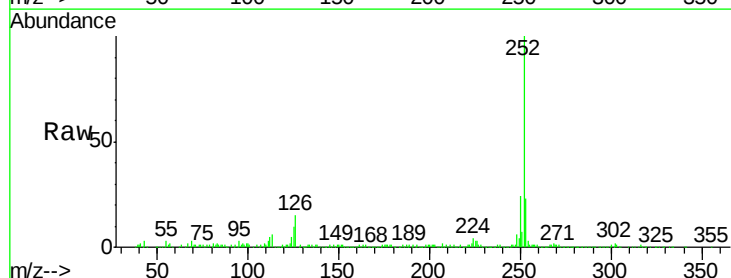
Instrument :
BNA_F
ClientSampleId :
SB-05

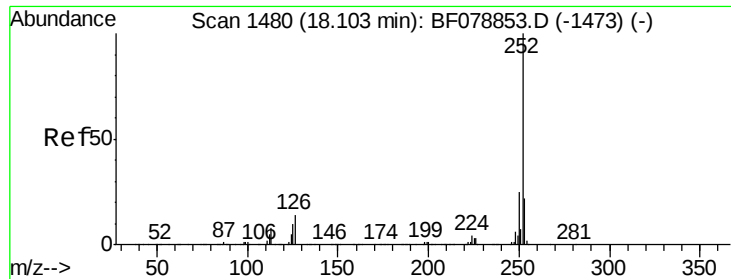
Tot Ion:252 Resp: 581937
Ion Ratio Lower Upper
252 100
253 23.0 18.1 27.1
125 11.6 9.4 14.2



#88
Benzo(k)fluoranthene
Concen: 18.25 ng m
RT: 17.29 min Scan# 1409
Delta R.T. -0.09 min
Lab File: BF079363.D
Acq: 20 May 2015 3:31

Tgt Ion:252 Resp: 220828
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.0
125 10.3 6.1 9.1#

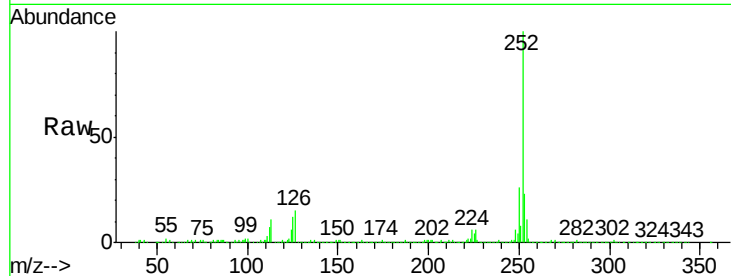




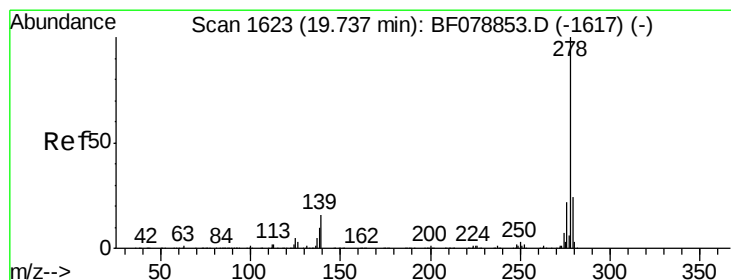
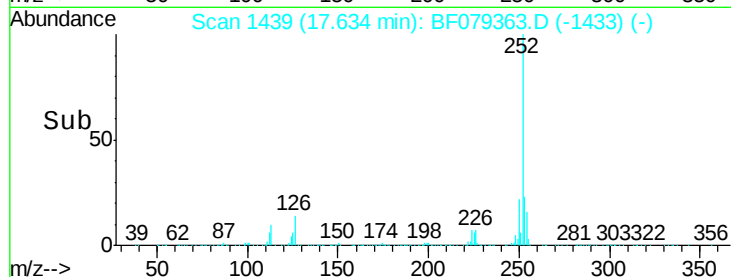
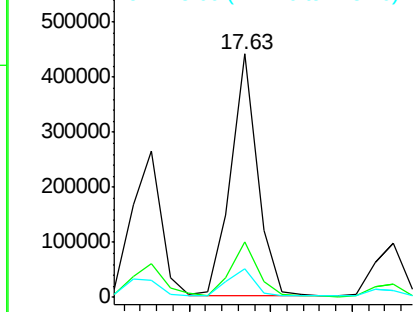
#89
Benzo(a)pyrene
Concen: 43.30 ng
RT: 17.63 min Scan# 1439
Delta R.T. -0.11 min
Lab File: BF079363.D
Acq: 20 May 2015 3:31

Instrument :
BNA_F
ClientSampled :
SB-05

Tot Ion:252 Resp: 498344
Ion Ratio Lower Upper
252 100
253 23.0 18.0 27.0
125 11.7 8.2 12.2

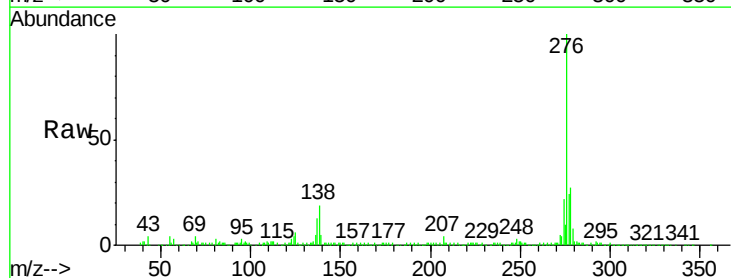


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

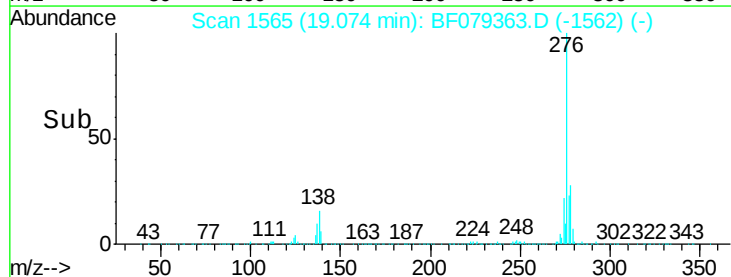
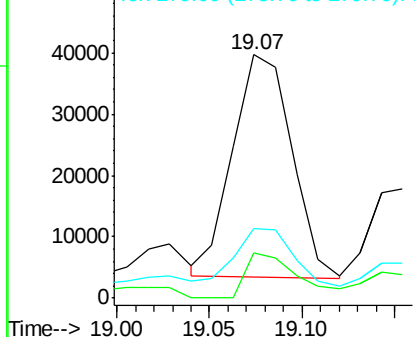


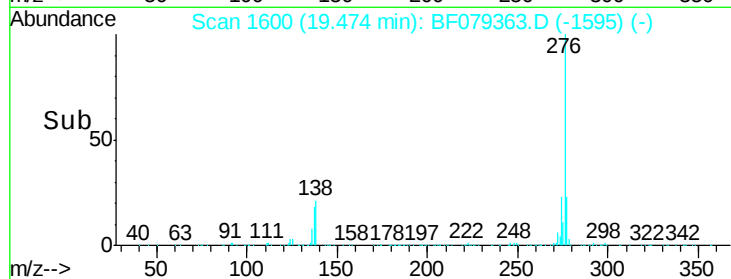
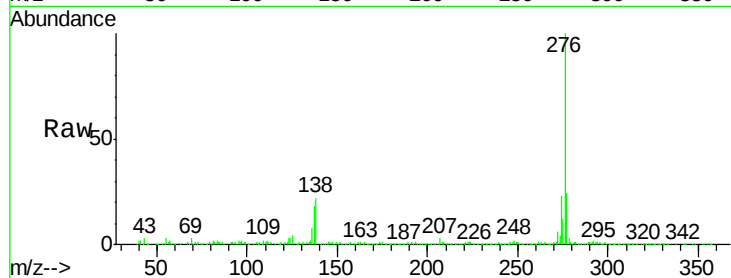
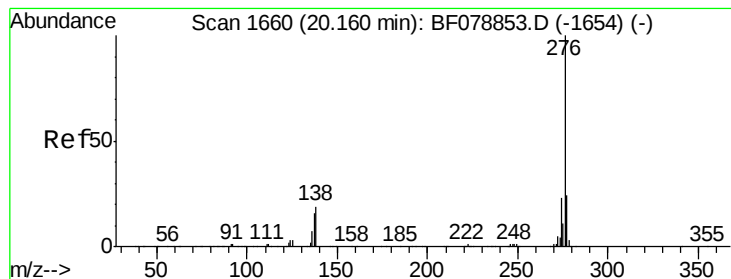
#90
Dibenzo(a,h)anthracene
Concen: 6.56 ng m
RT: 19.07 min Scan# 1565
Delta R.T. -0.17 min
Lab File: BF079363.D
Acq: 20 May 2015 3:31

Tgt Ion:278 Resp: 80173
Ion Ratio Lower Upper
278 100
139 18.6 13.1 19.7
279 28.5 19.1 28.7



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(a,h,i)perylene

Concen: 28.96 ng

RT: 19.47 min Scan# 1600

Delta R.T. -0.15 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampleId :

SB-05

Tot Ion:276 Resp: 354999

Ion Ratio Lower Upper

276 100

277 23.7 18.8 28.2

138 21.6 15.2 22.8

