

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 04:32:51 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 19 13:22:43 2015
 Response via : Initial Calibration

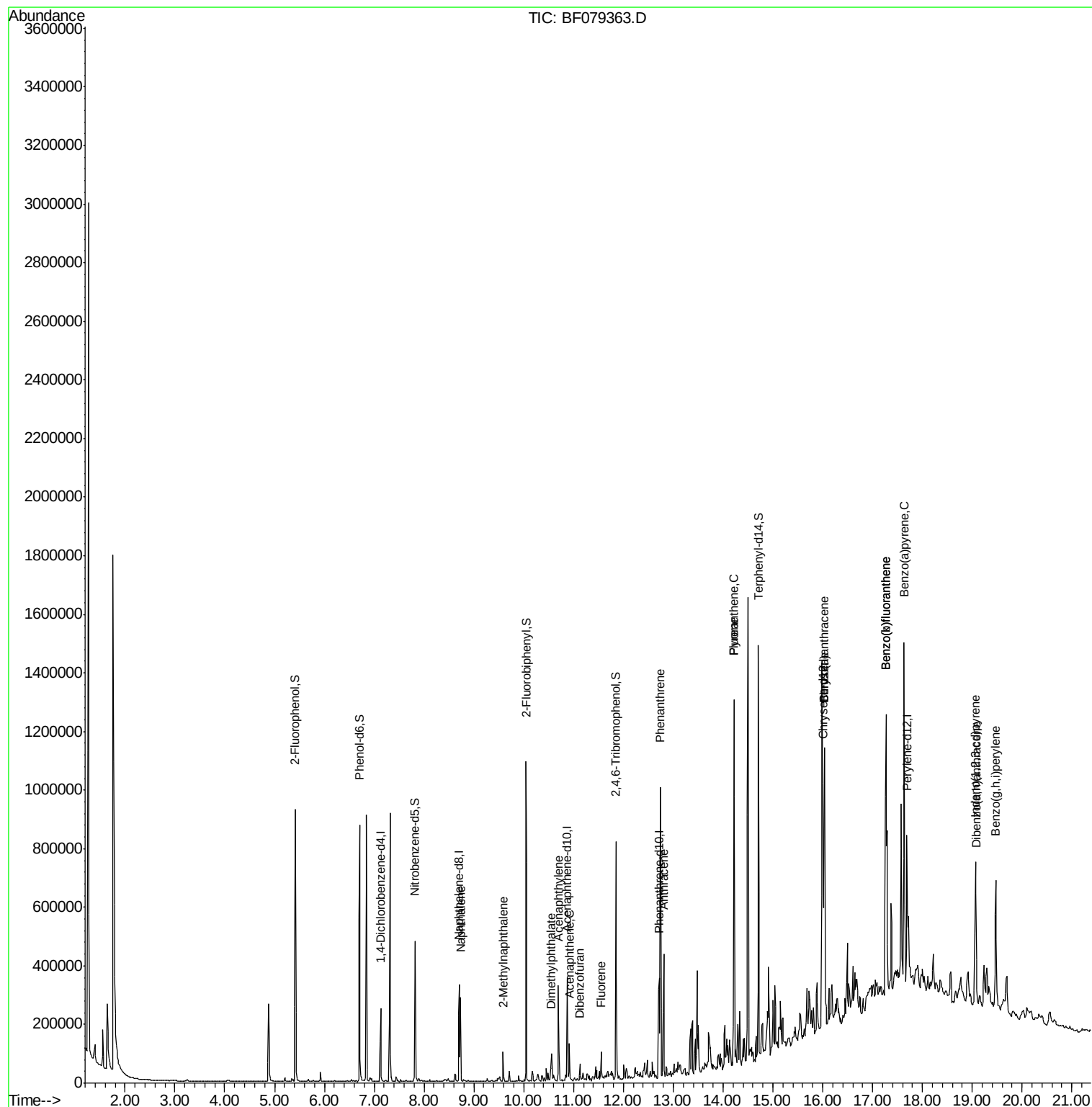
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.13	152	45923	20.00	ng	0.00
21) Naphthalene-d8	8.71	136	194393	20.00	ng	0.00
38) Acenaphthene-d10	10.87	164	94690	20.00	ng	-0.01
63) Phenanthrene-d10	12.72	188	181817	20.00	ng	0.00
75) Chrysene-d12	16.00	240	202196	20.00	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	14.22	202	695630	59.70	ng	100
80) Benzo(a)anthracene	16.03	228	404281	36.51	ng	94
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	795376	63.64	ng	99
88) Benzo(k)fluoranthene	17.27	252	795376	65.74	ng	# 95
89) Benzo(a)pyrene	17.63	252	498344	43.30	ng	98
90) Dibenzo(a,h)anthracene	19.07	278	88258	7.22	ng	92
91) Benzo(g,h,i)perylene	19.47	276	354999	28.96	ng	97

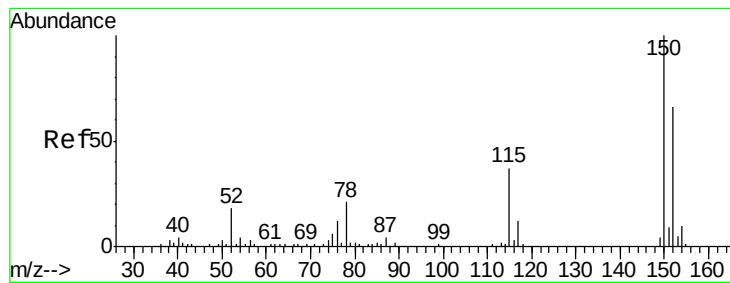
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

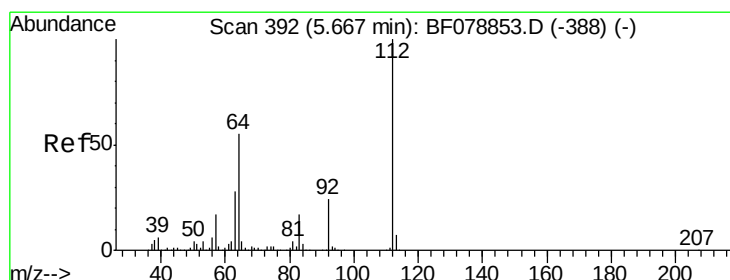
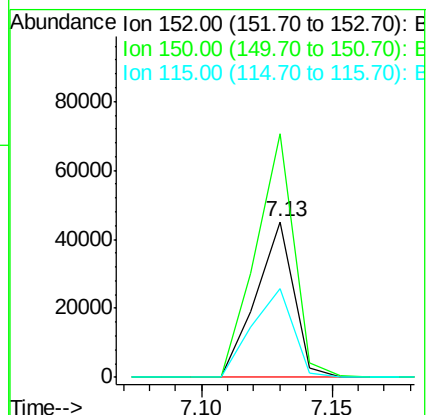
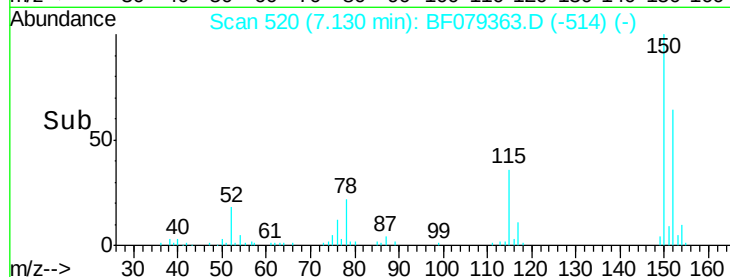
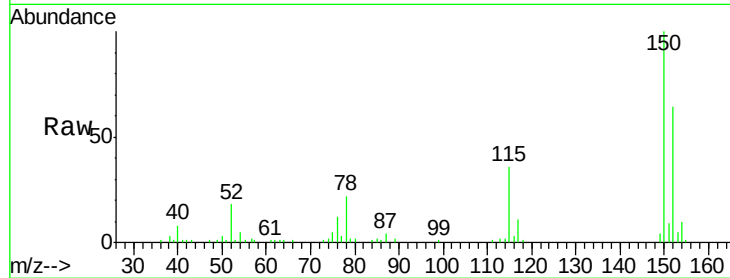
Tgt Ion:152 Resp: 45923

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

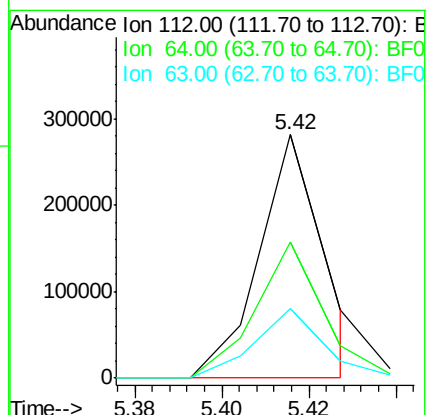
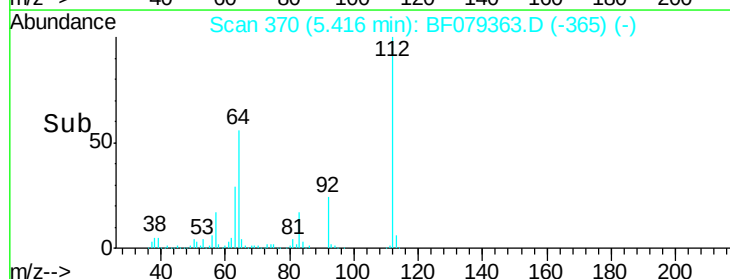
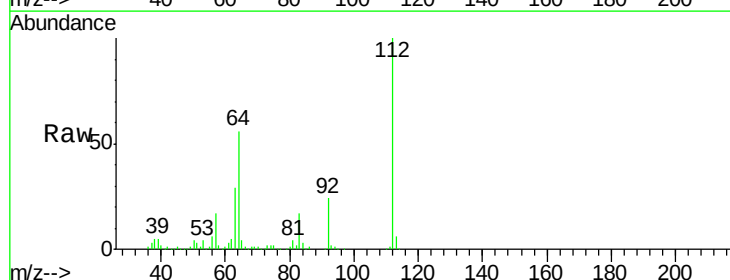
Tgt Ion:112 Resp: 289807

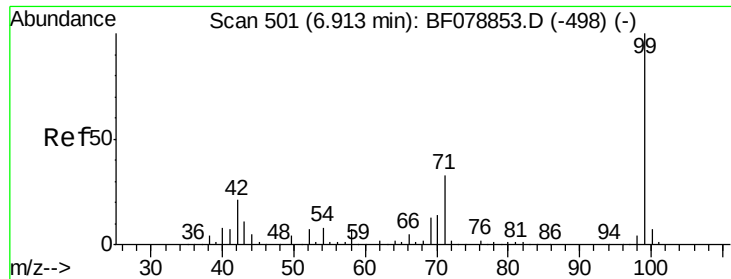
Ion Ratio Lower Upper

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

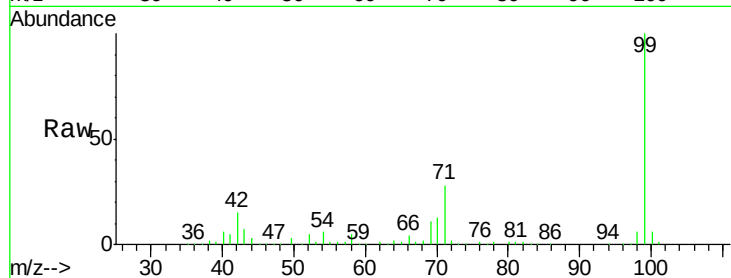
Tgt Ion: 99 Resp: 398437

Ion Ratio Lower Upper

99 100

42 14.7 17.1 25.7#

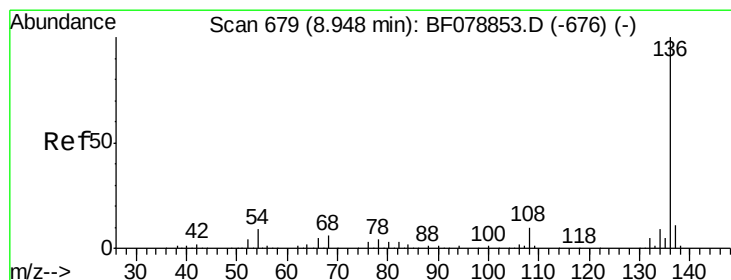
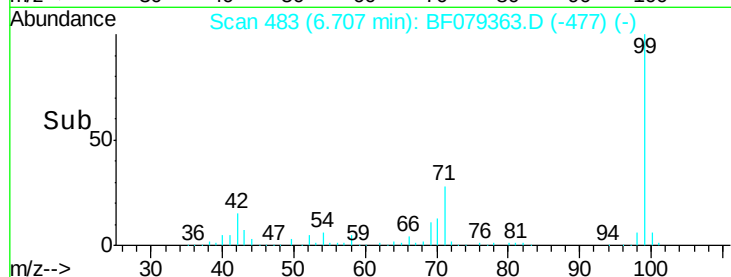
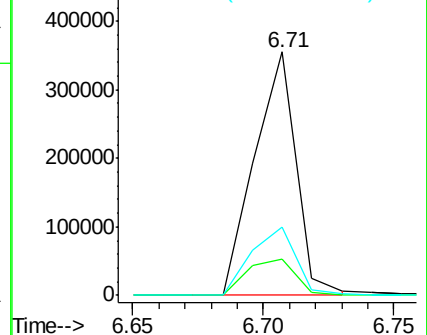
71 28.0 26.3 39.5



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



#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

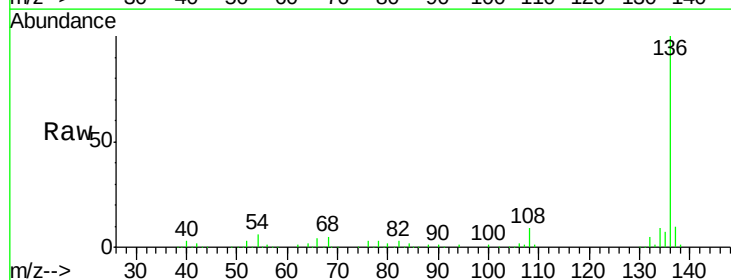
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 5.8 6.9 10.3#

68 4.7 4.9 7.3#

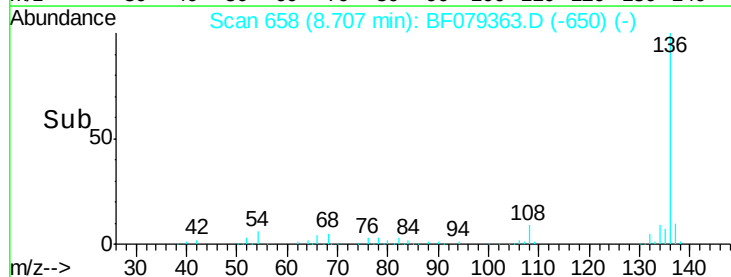
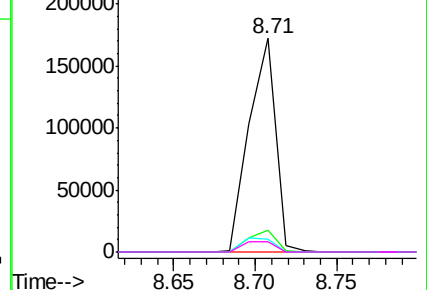


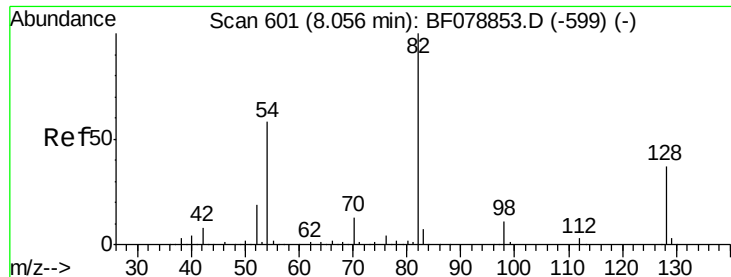
Abundance Ion 136.00 (135.70 to 136.70): E

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





#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

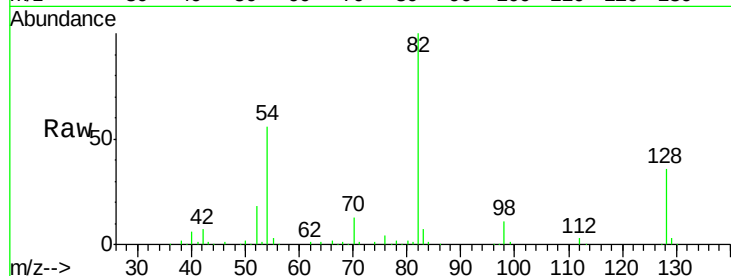
Tgt Ion: 82 Resp: 223757

Ion Ratio Lower Upper

82 100

128 36.1 29.7 44.5

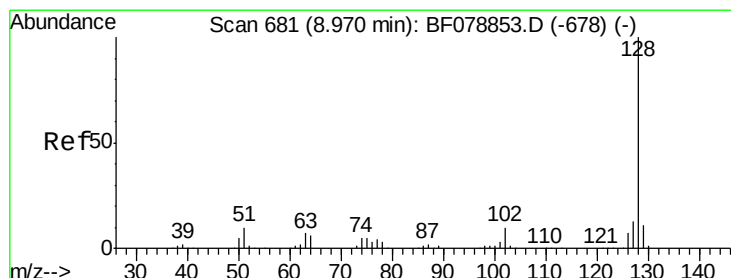
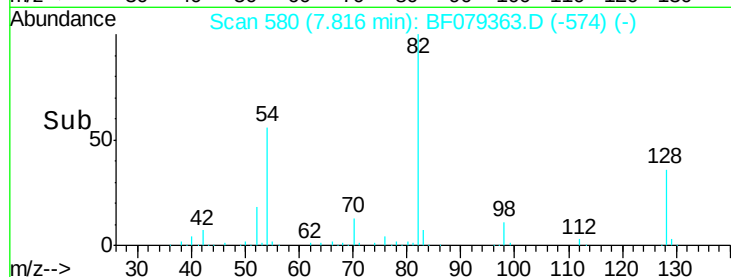
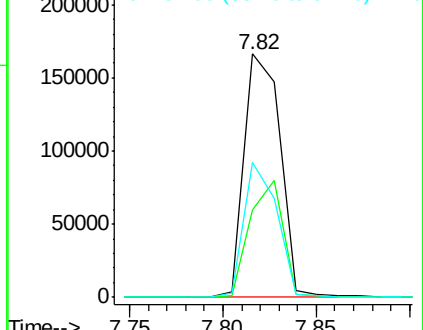
54 55.6 46.2 69.4



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



#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

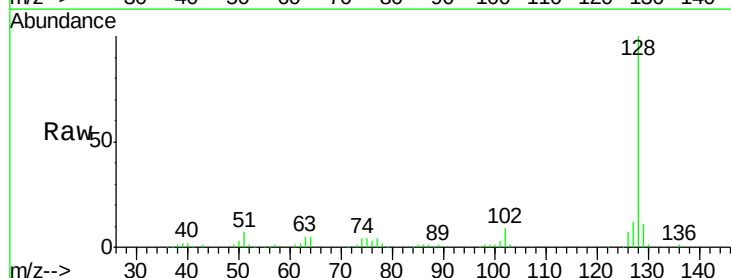
Tgt Ion: 128 Resp: 126772

Ion Ratio Lower Upper

128 100

129 11.2 9.2 13.8

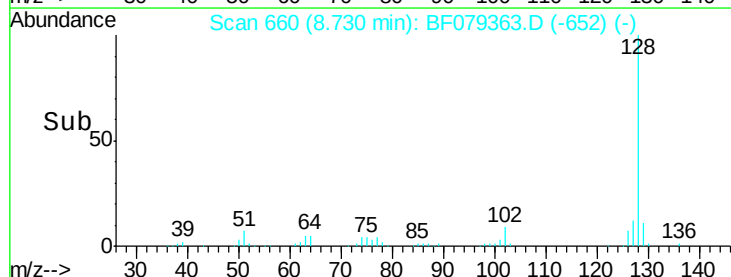
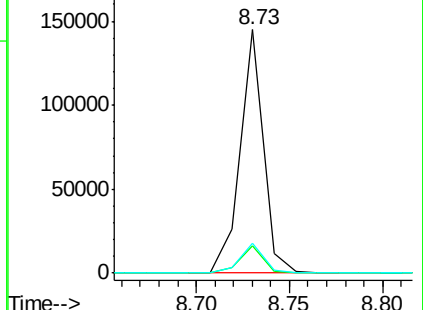
127 12.3 10.3 15.5

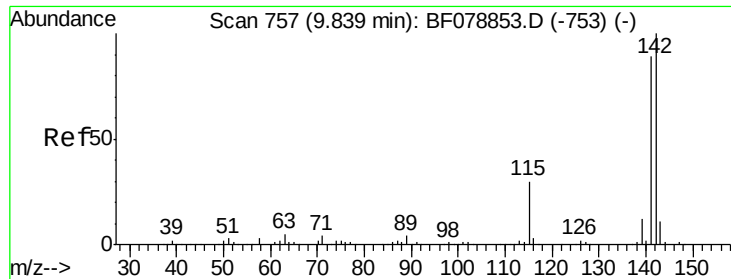


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

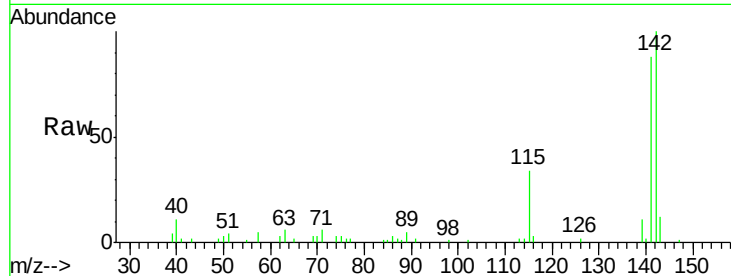




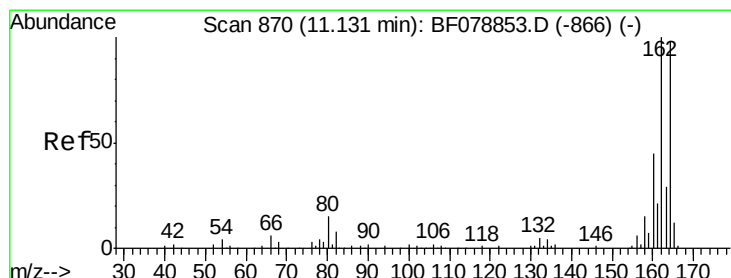
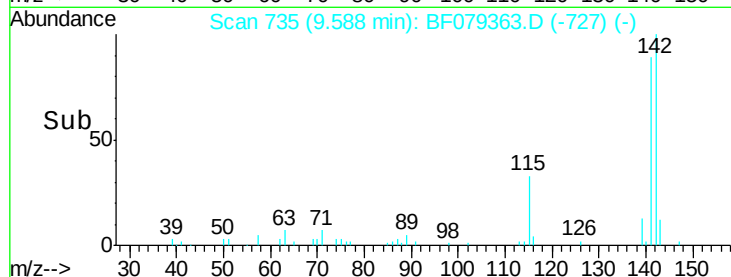
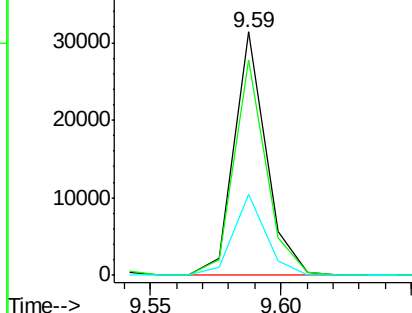
#37
 2-Methylnaphthalene
 Concen: 4.25 ng
 RT: 9.59 min Scan# 735
 Delta R.T. -0.00 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

Instrument :
 BNA_F
 ClientSampleId :
 SB-05

Tgt Ion:142 Resp: 27280
 Ion Ratio Lower Upper
 142 100
 141 88.4 71.6 107.4
 115 33.5 24.2 36.4

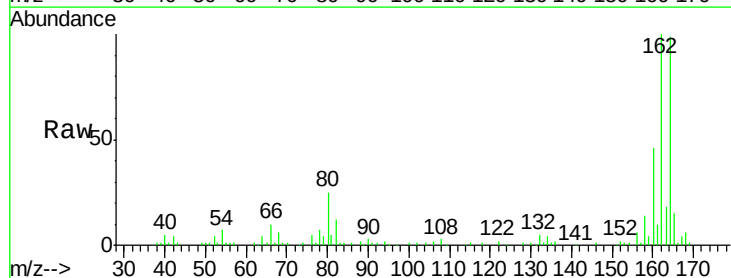


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

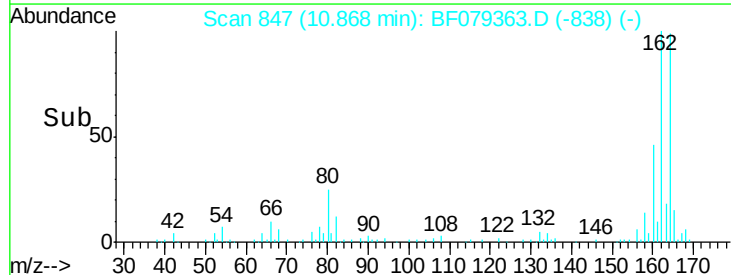
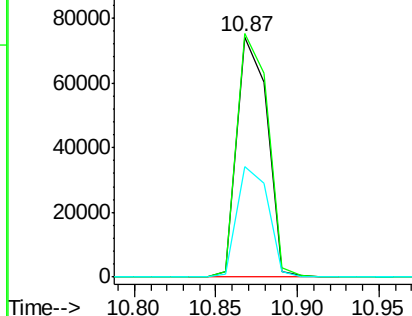


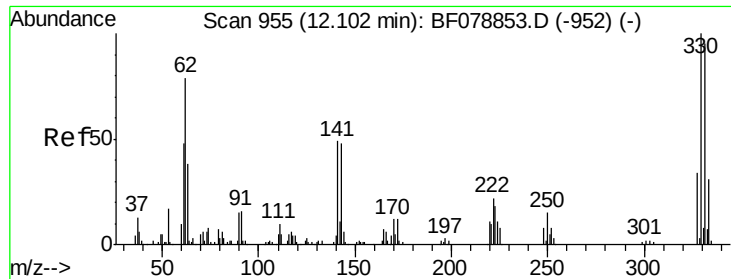
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.87 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

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

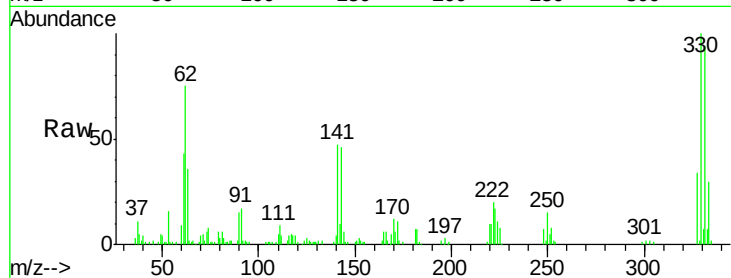




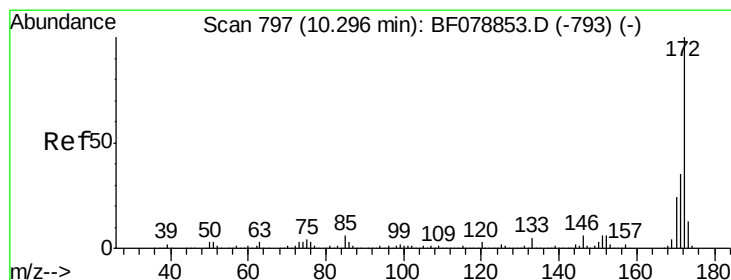
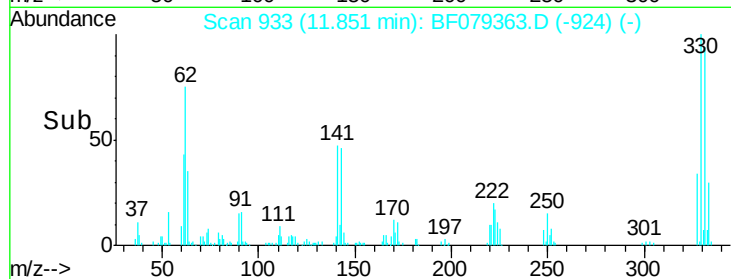
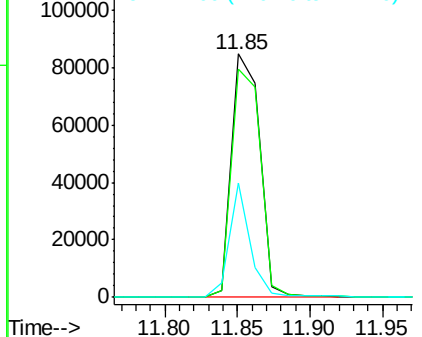
#41
 2,4,6-Tribromophenol
 Concen: 112.57 ng
 RT: 11.85 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

Instrument :
 BNA_F
 ClientSampleId :
 SB-05

Tgt Ion:330 Resp: 115317
 Ion Ratio Lower Upper
 330 100
 332 96.3 76.9 115.3
 141 35.4 27.8 41.8

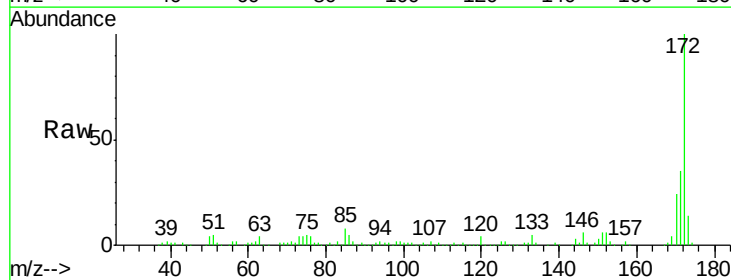


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

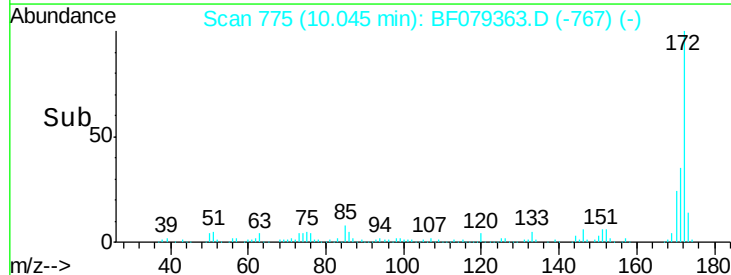
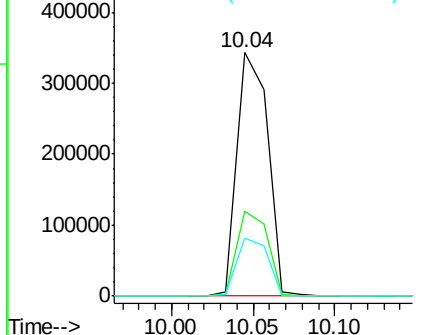


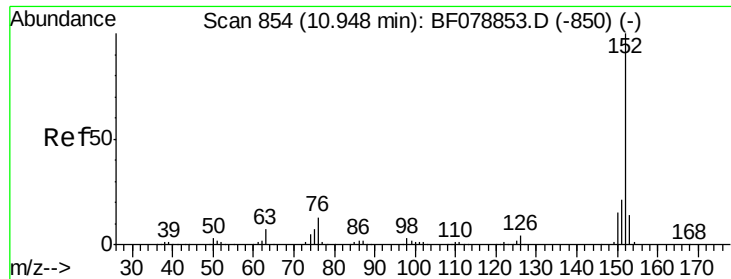
#44
 2-Fluorobiphenyl
 Concen: 65.54 ng
 RT: 10.04 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

Tgt Ion:172 Resp: 445456
 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

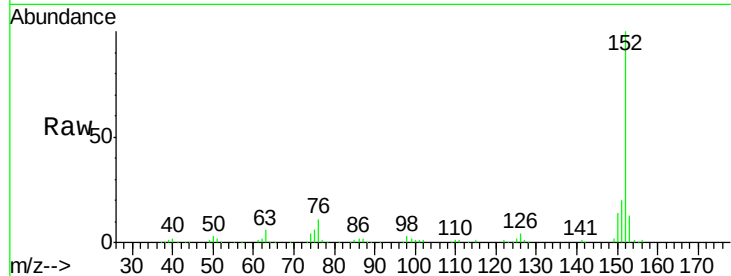
Tgt Ion:152 Resp: 149221

Ion Ratio Lower Upper

152 100

151 19.9 16.6 24.8

153 12.9 11.0 16.6

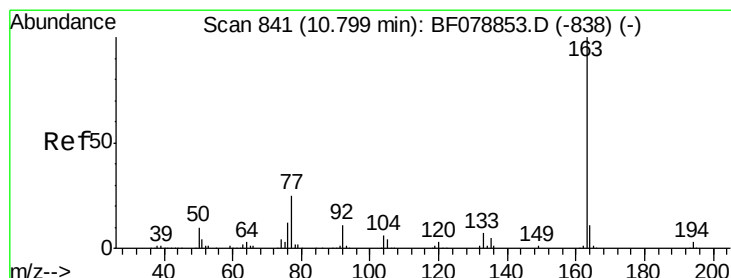
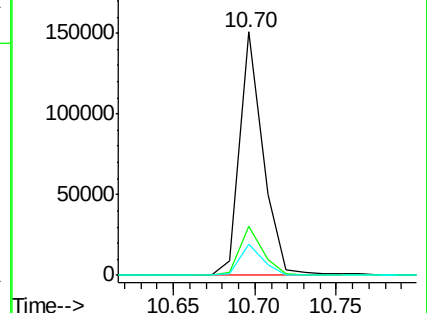
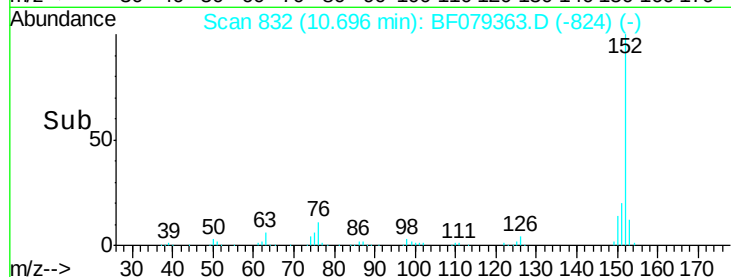


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

10.70



#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

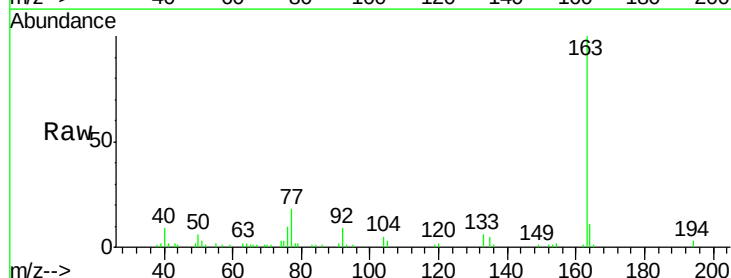
Tgt Ion:163 Resp: 35736

Ion Ratio Lower Upper

163 100

194 3.3 2.4 3.6

164 10.9 8.6 12.8

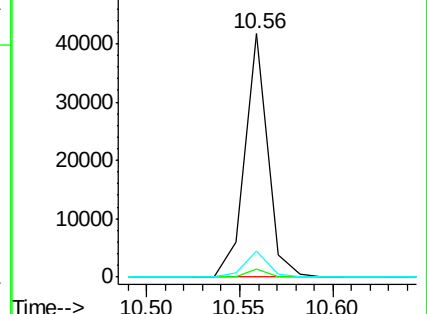
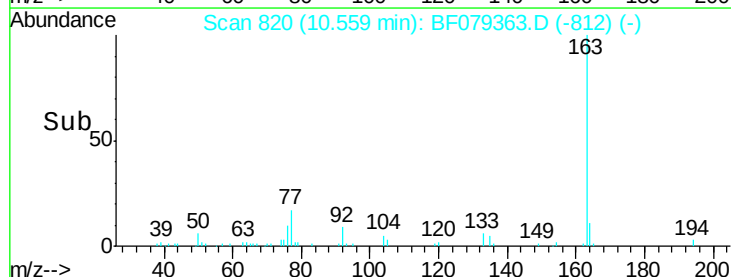


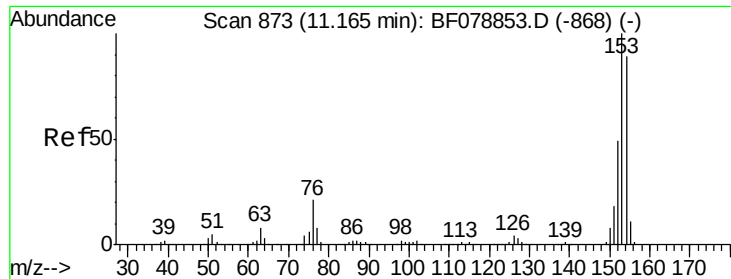
Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

10.56





#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

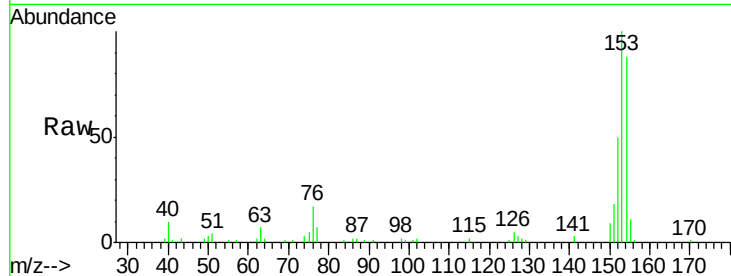
Tgt Ion:154 Resp: 29274

Ion Ratio Lower Upper

154 100

153 113.2 90.2 135.2

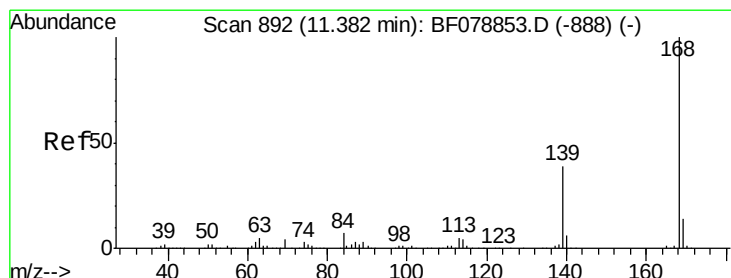
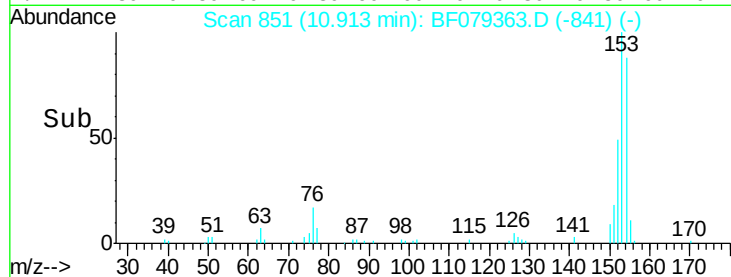
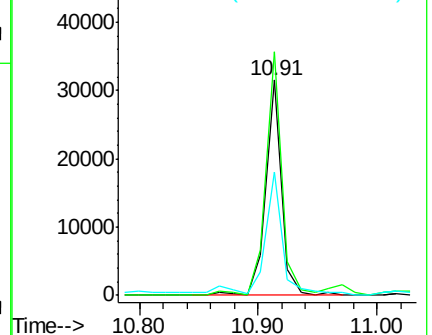
152 57.1 43.8 65.8



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

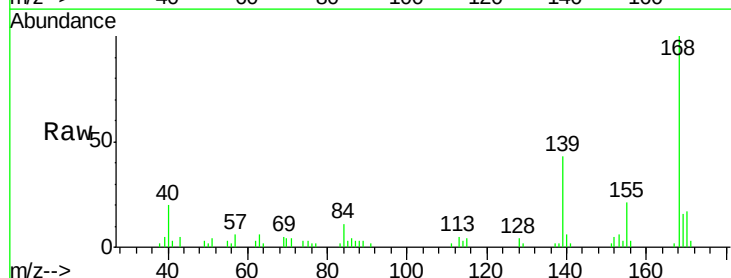
Tgt Ion:168 Resp: 16846

Ion Ratio Lower Upper

168 100

139 43.2 31.5 47.3

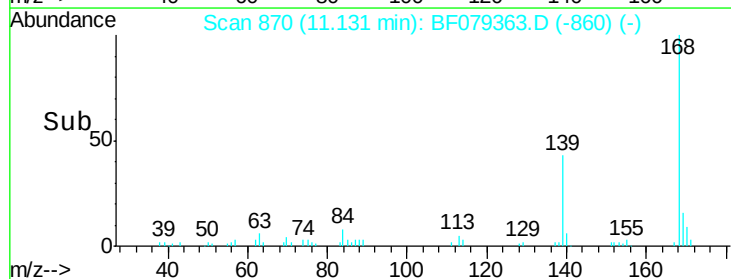
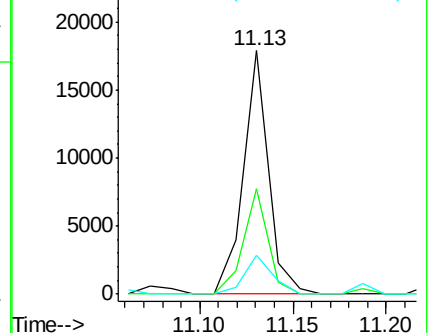
169 16.1 11.0 16.4

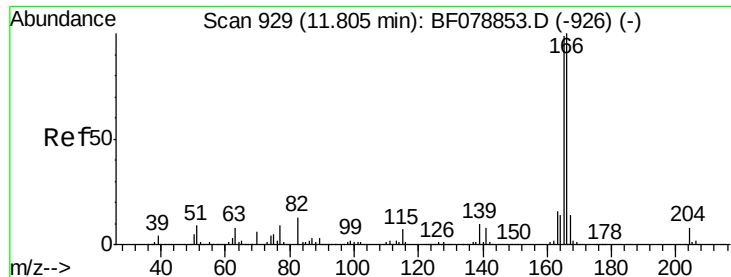


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

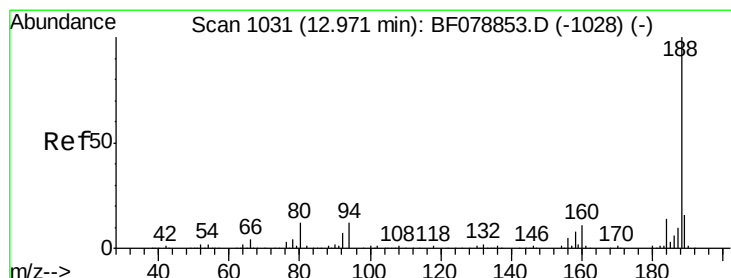
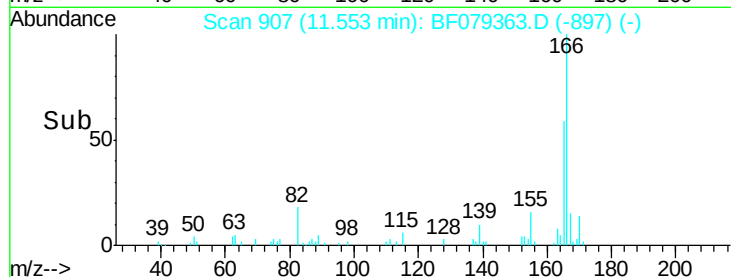
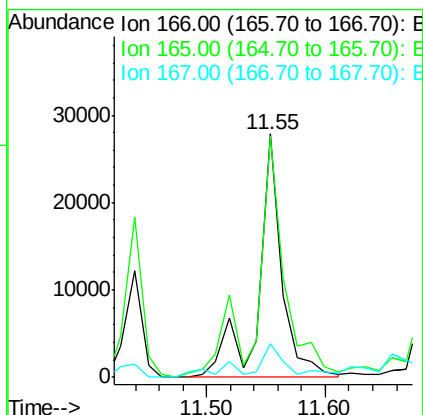
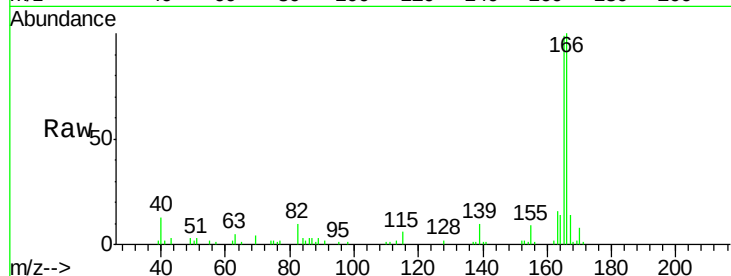




#57
 Fluorene
 Concen: 5.67 ng
 RT: 11.55 min Scan# 907
 Delta R.T. -0.00 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

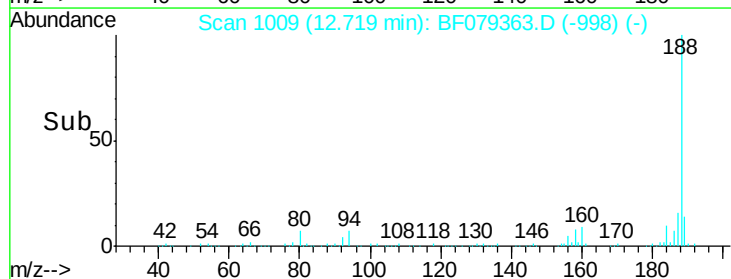
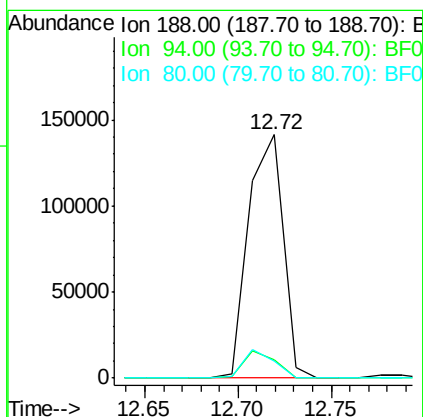
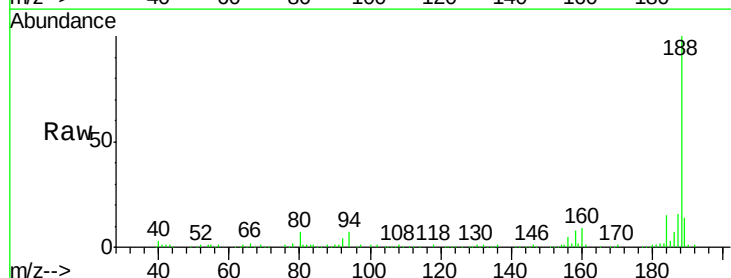
Instrument :
 BNA_F
 ClientSampleId :
 SB-05

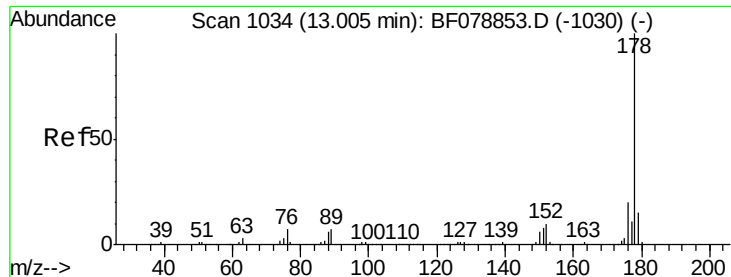
Tgt Ion:166 Resp: 38619
 Ion Ratio Lower Upper
 166 100
 165 99.1 79.5 119.3
 167 13.8 11.0 16.6



#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#





#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

ClientSampled :

SB-05

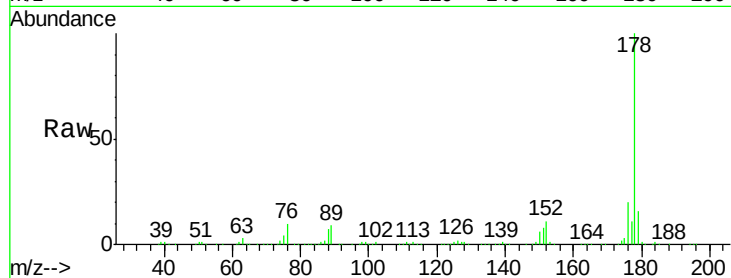
Tgt Ion:178 Resp: 394406

Ion Ratio Lower Upper

178 100

176 19.9 15.9 23.9

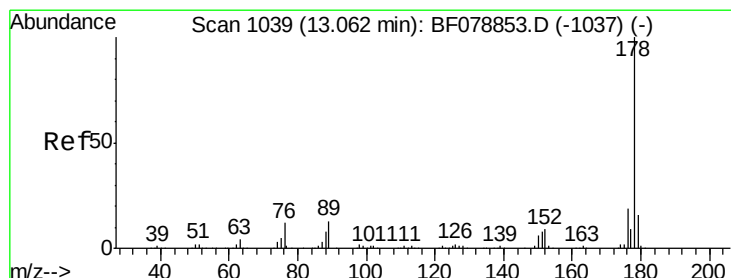
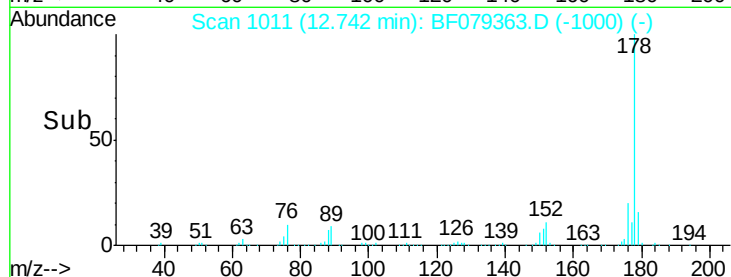
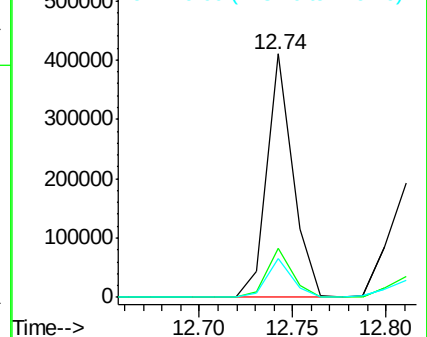
179 16.0 12.2 18.4



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

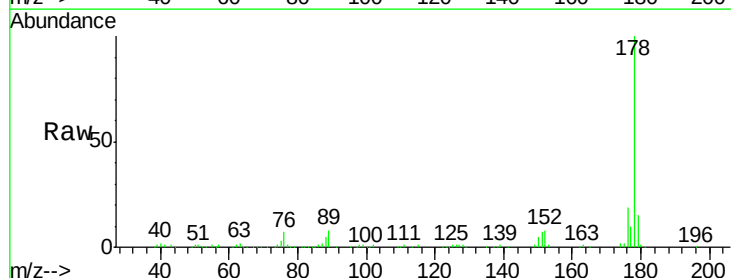
Tgt Ion:178 Resp: 199551

Ion Ratio Lower Upper

178 100

176 18.7 15.3 22.9

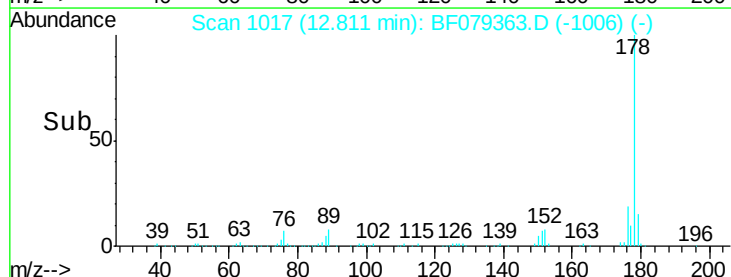
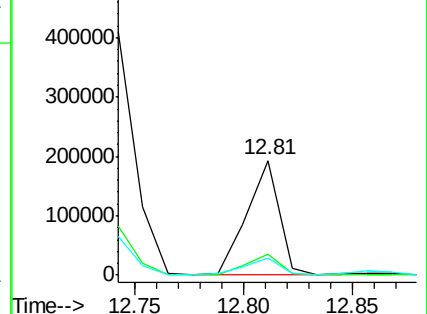
179 15.1 12.6 19.0

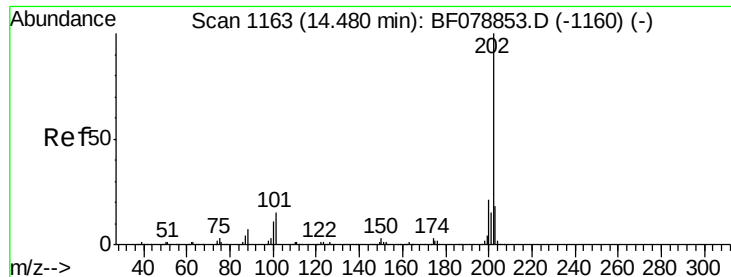


Abundance Ion 178.00 (177.70 to 178.70): E

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

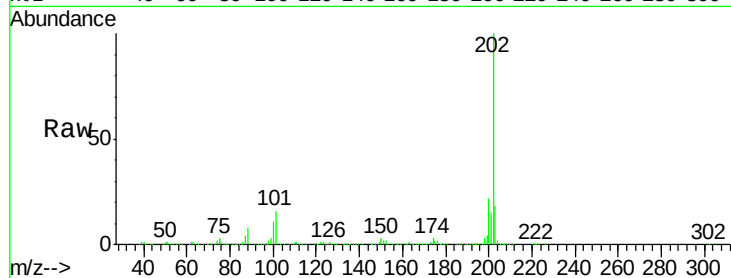
Tgt Ion:202 Resp: 695630

Ion Ratio Lower Upper

202 100

101 15.5 0.0 34.7

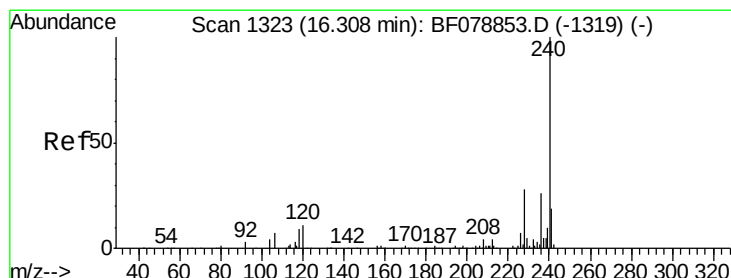
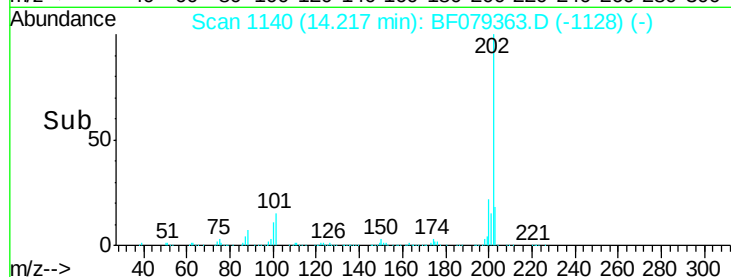
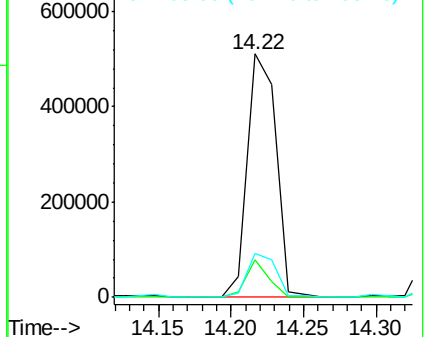
203 18.2 0.0 37.9



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

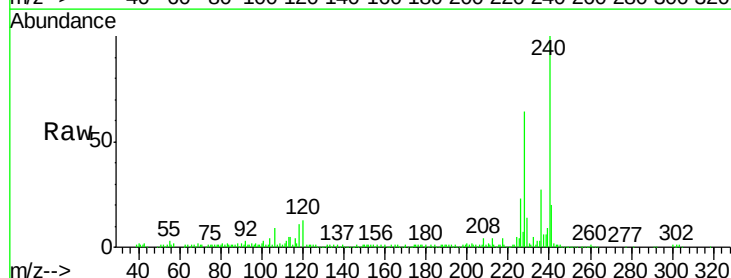
Tgt Ion:240 Resp: 202196

Ion Ratio Lower Upper

240 100

120 13.2 8.6 12.8#

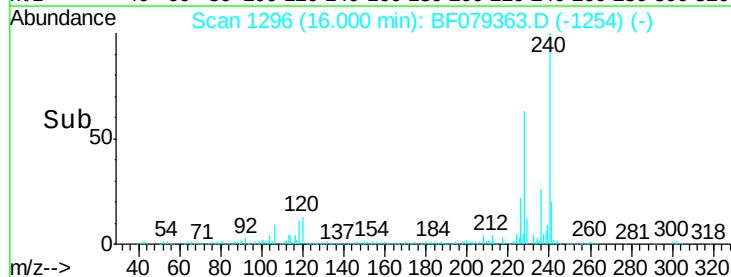
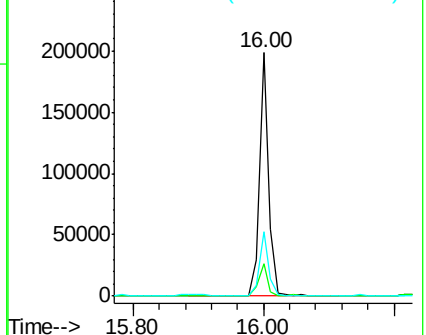
236 26.5 21.0 31.6

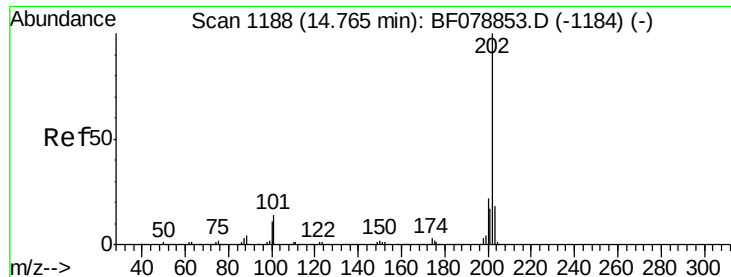


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 59.70 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

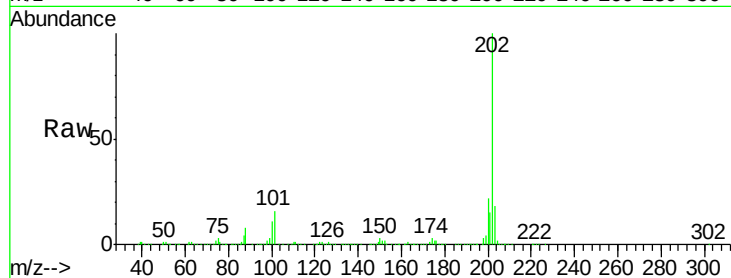
Tgt Ion:202 Resp: 695630

Ion Ratio Lower Upper

202 100

200 21.8 17.5 26.3

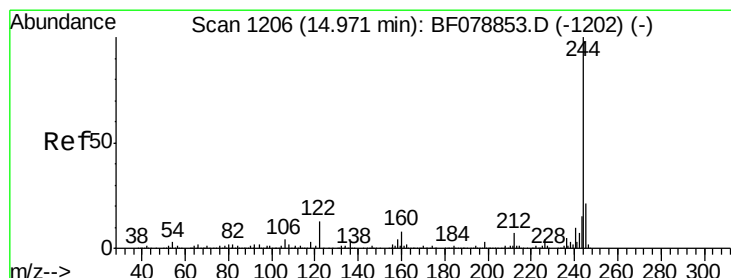
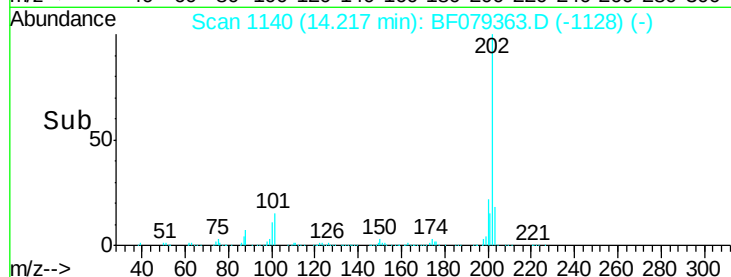
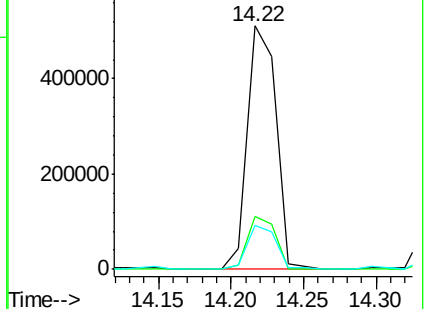
203 18.2 14.7 22.1



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

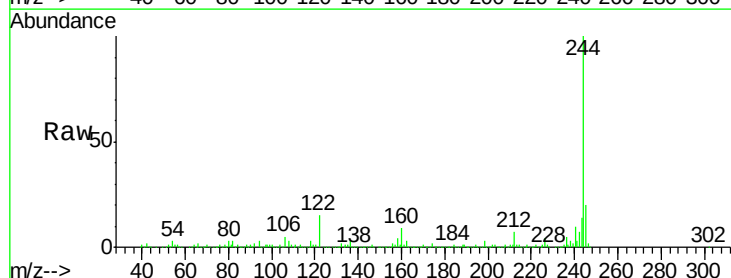
Tgt Ion:244 Resp: 520461

Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

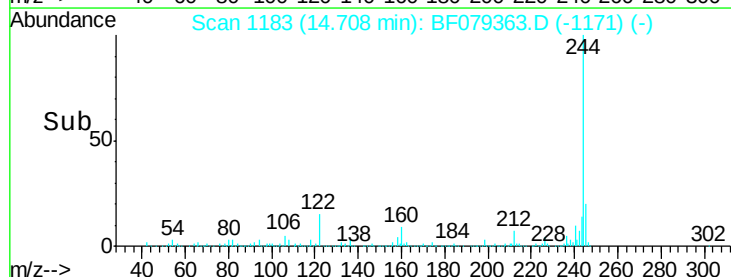
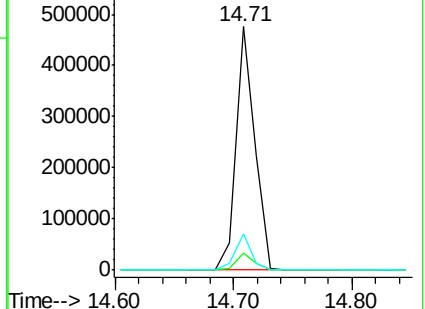
122 14.7 10.5 15.7

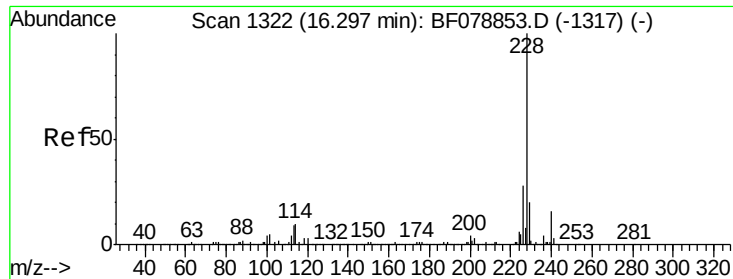


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 36.51 ng

RT: 16.03 min Scan# 1299

Delta R.T. 0.02 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

Instrument :

BNA_F

ClientSampled :

SB-05

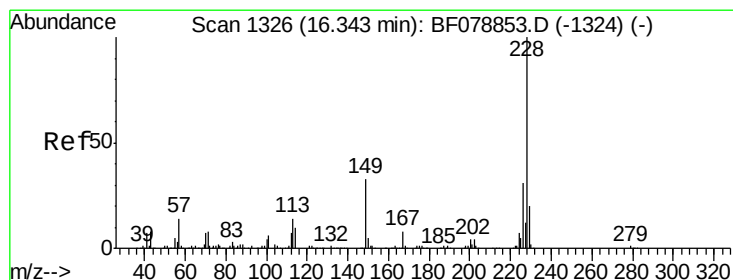
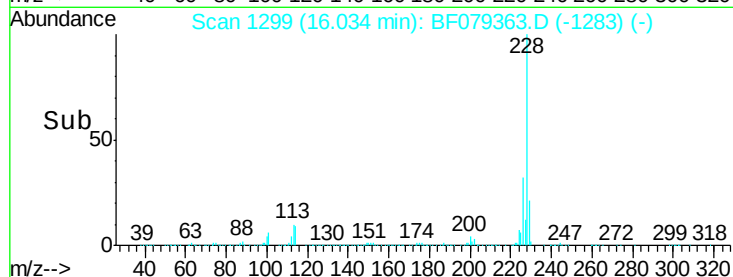
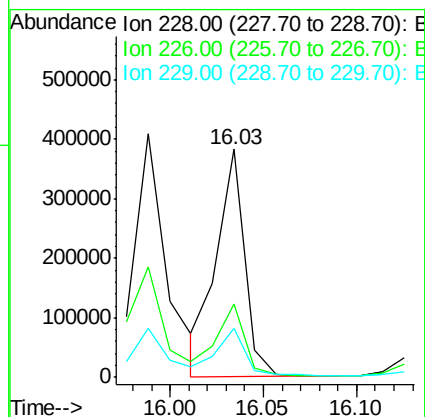
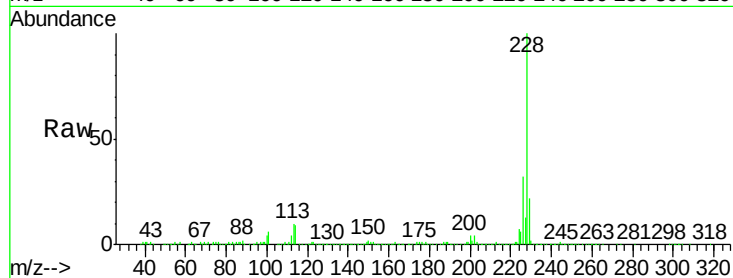
Tgt Ion:228 Resp: 404281

Ion Ratio Lower Upper

228 100

226 32.0 22.3 33.5

229 21.8 16.1 24.1



#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

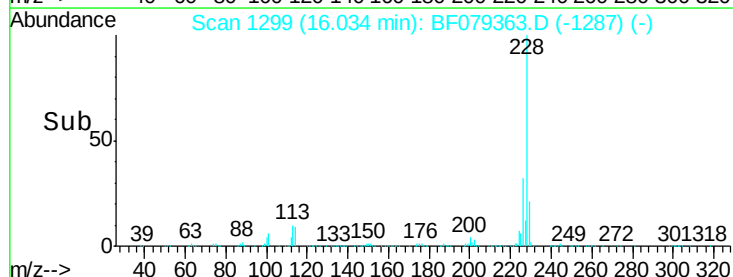
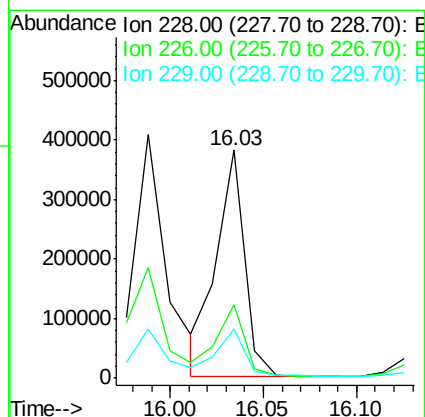
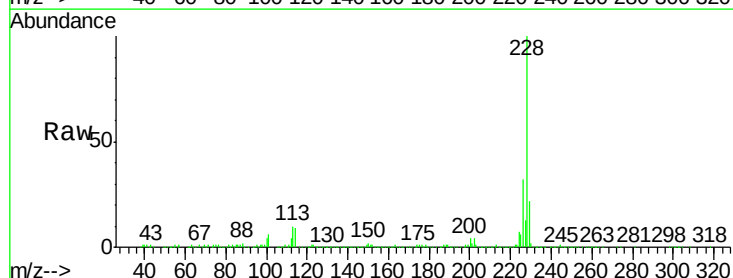
Tgt Ion:228 Resp: 402996

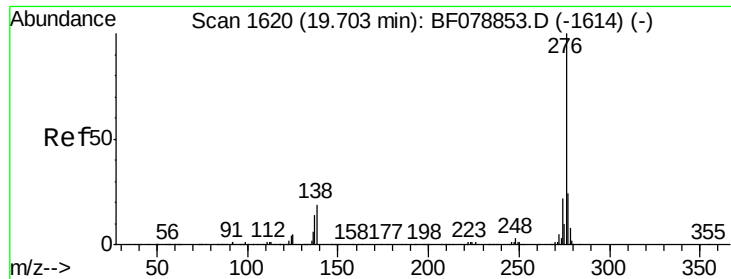
Ion Ratio Lower Upper

228 100

226 32.0 24.8 37.2

229 21.8 16.1 24.1

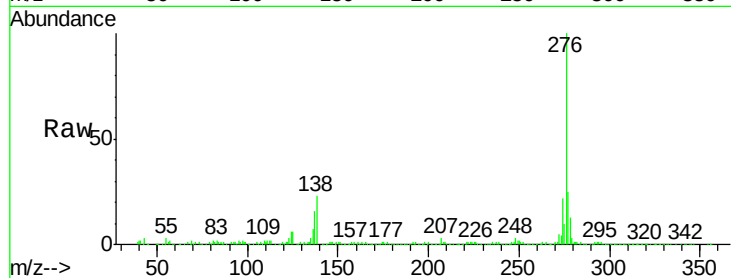




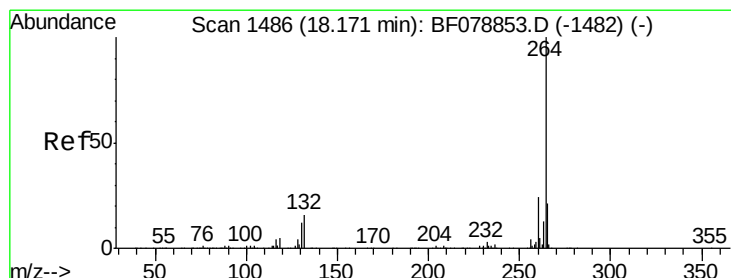
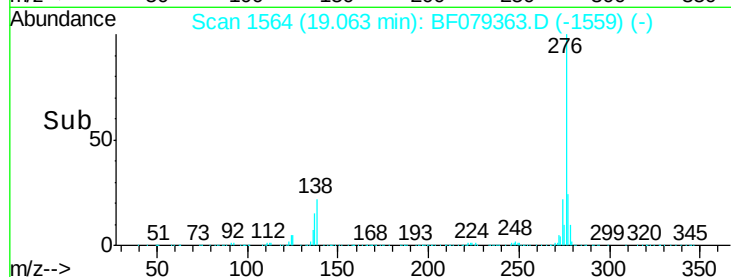
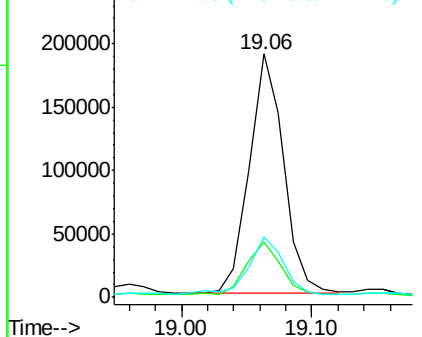
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 25.53 ng
 RT: 19.06 min Scan# 1564
 Delta R.T. -0.15 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

Instrument :
 BNA_F
 ClientSampleId :
 SB-05

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

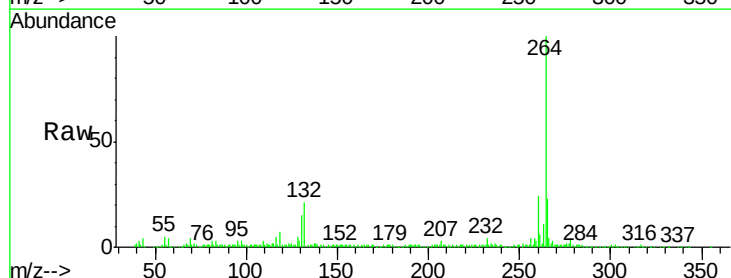


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

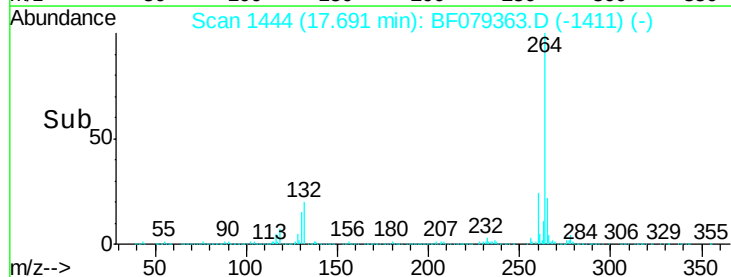
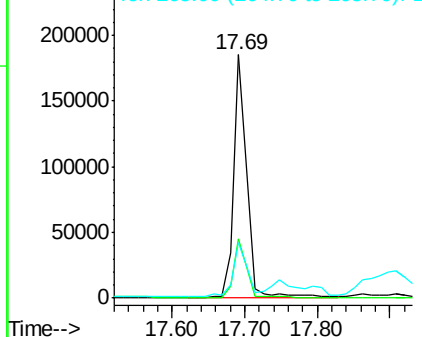


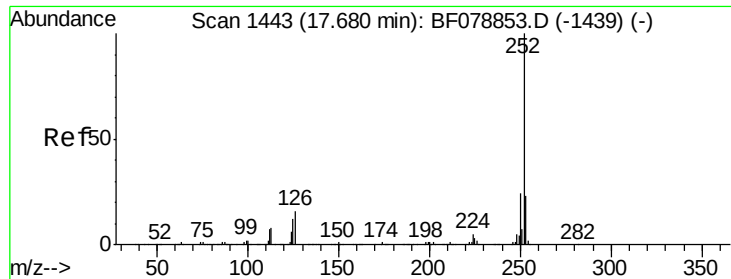
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.69 min Scan# 1444
 Delta R.T. -0.13 min
 Lab File: BF079363.D
 Acq: 20 May 2015 3:31

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



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

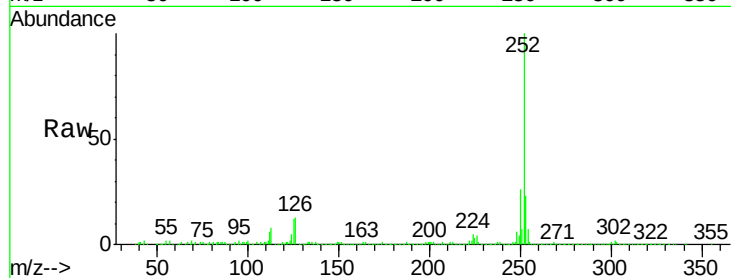




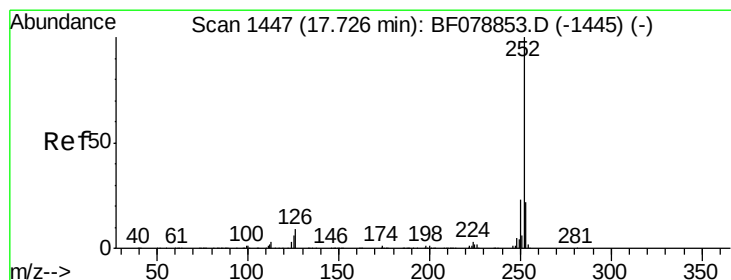
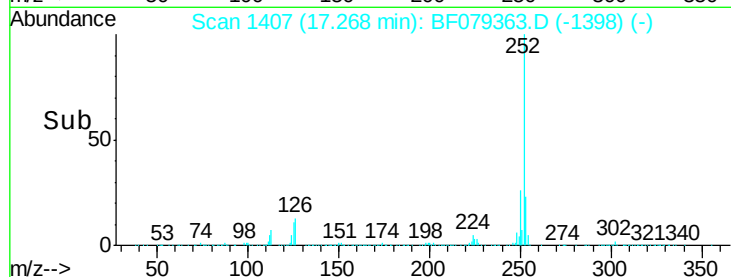
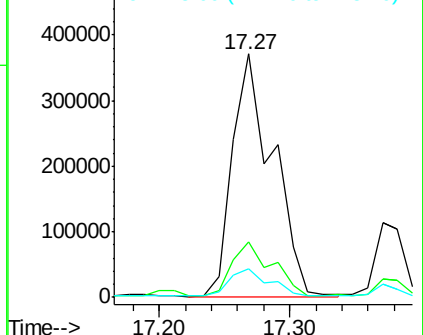
#87
Benzo(b)fluoranthene
Concen: 63.64 ng
RT: 17.27 min Scan# 1407
Delta R.T. -0.08 min
Lab File: BF079363.D
Acq: 20 May 2015 3:31

Instrument :
BNA_F
ClientSampleId :
SB-05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	11.6	9.4	14.2

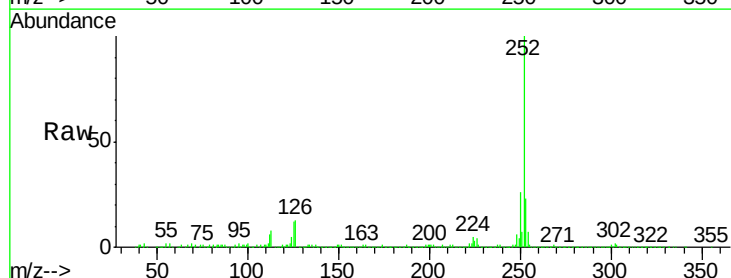


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

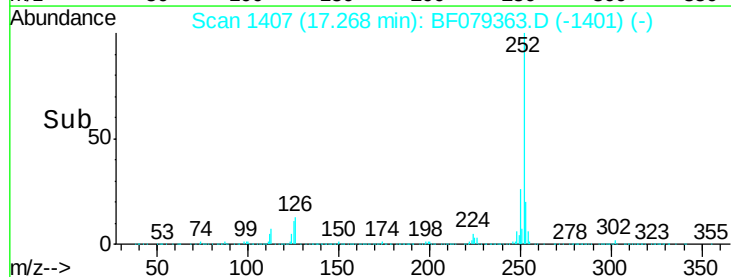
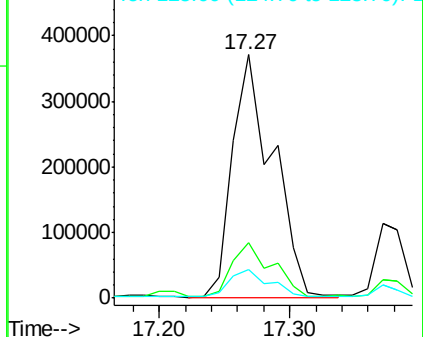


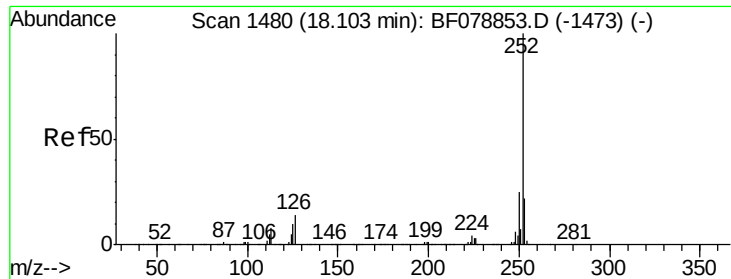
#88
Benzo(k)fluoranthene
Concen: 65.74 ng
RT: 17.27 min Scan# 1407
Delta R.T. -0.11 min
Lab File: BF079363.D
Acq: 20 May 2015 3:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.0
125	11.6	6.1	9.1#



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





#89

Benzo(a)pyrene

Concen: 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

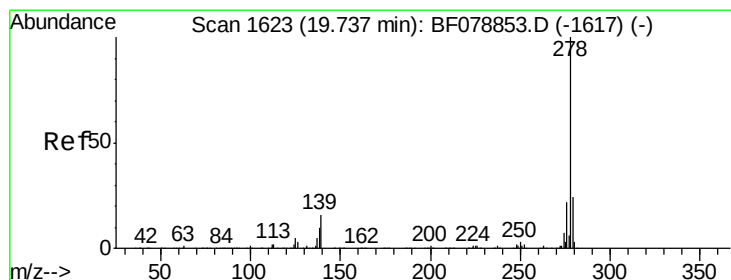
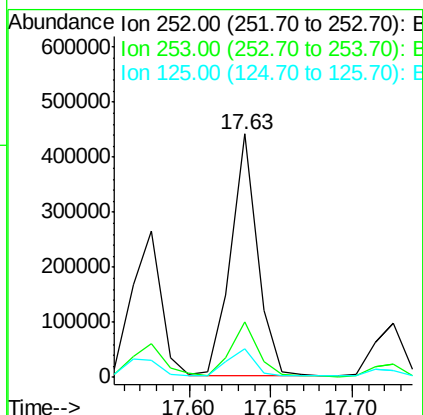
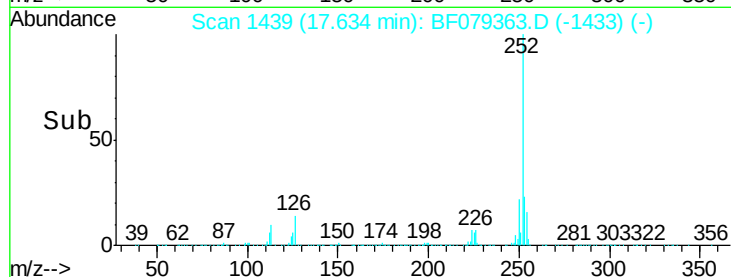
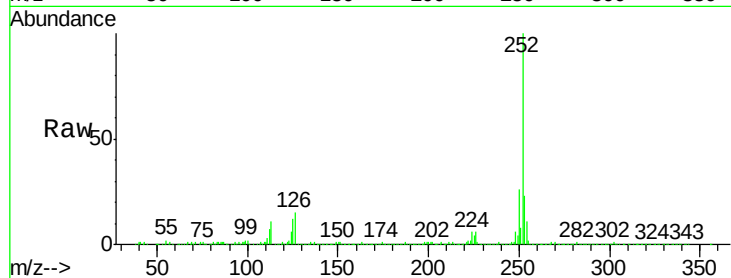
Tgt Ion:252 Resp: 498344

Ion Ratio Lower Upper

252 100

253 23.0 18.0 27.0

125 11.7 8.2 12.2



#90

Dibenzo(a,h)anthracene

Concen: 7.22 ng

RT: 19.07 min Scan# 1565

Delta R.T. -0.17 min

Lab File: BF079363.D

Acq: 20 May 2015 3:31

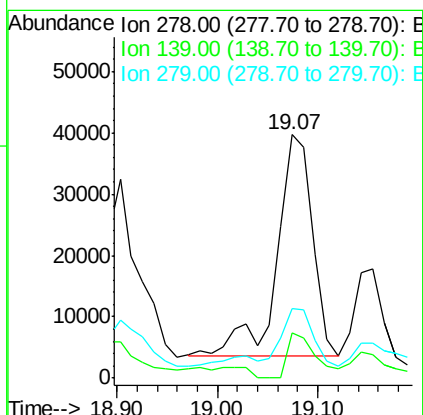
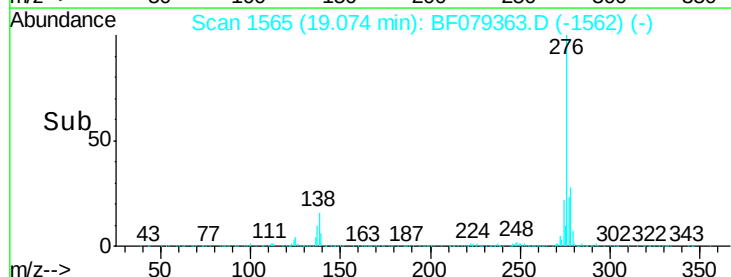
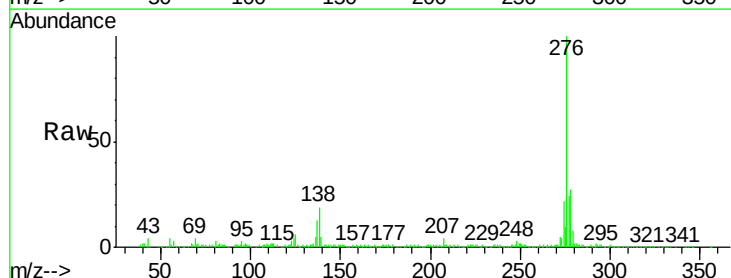
Tgt Ion:278 Resp: 88258

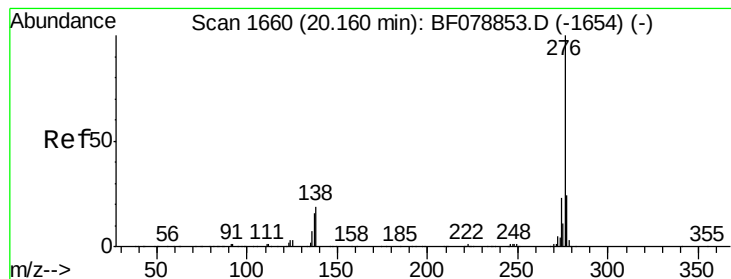
Ion Ratio Lower Upper

278 100

139 18.6 13.1 19.7

279 28.5 19.1 28.7





#91

Benzo(g,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

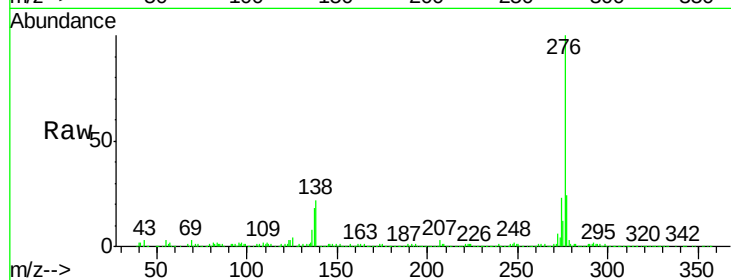
Tgt Ion: 276 Resp: 354999

Ion Ratio Lower Upper

276 100

277 23.7 18.8 28.2

138 21.6 15.2 22.8



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

