

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041415\
 Data File : BF078511.D
 Acq On : 14 Apr 2015 20:57
 Operator : TP/IZ
 Sample : G1828-08
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02B

Quant Time: Apr 15 02:04:30 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 15 01:10:59 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	19242	20.00	ng	0.00
21) Naphthalene-d8	8.39	136	83173	20.00	ng	0.00
38) Acenaphthene-d10	10.54	164	43946	20.00	ng	0.00
63) Phenanthrene-d10	12.36	188	85029	20.00	ng	0.00
75) Chrysene-d12	15.63	240	108278	20.00	ng	-0.02
86) Perylene-d12	17.37	264	118386	20.00	ng	-0.11

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.06	112	26961	23.10	ng	0.01
7) Phenol-d6	6.41	99	55882	38.21	ng	0.00
23) Nitrobenzene-d5	7.51	82	37574	27.38	ng	0.00
41) 2,4,6-Tribromophenol	11.52	330	21592	59.24	ng	0.00
44) 2-Fluorobiphenyl	9.74	172	79072	25.72	ng	0.00
78) Terphenyl-d14	14.35	244	317717	66.30	ng	0.00

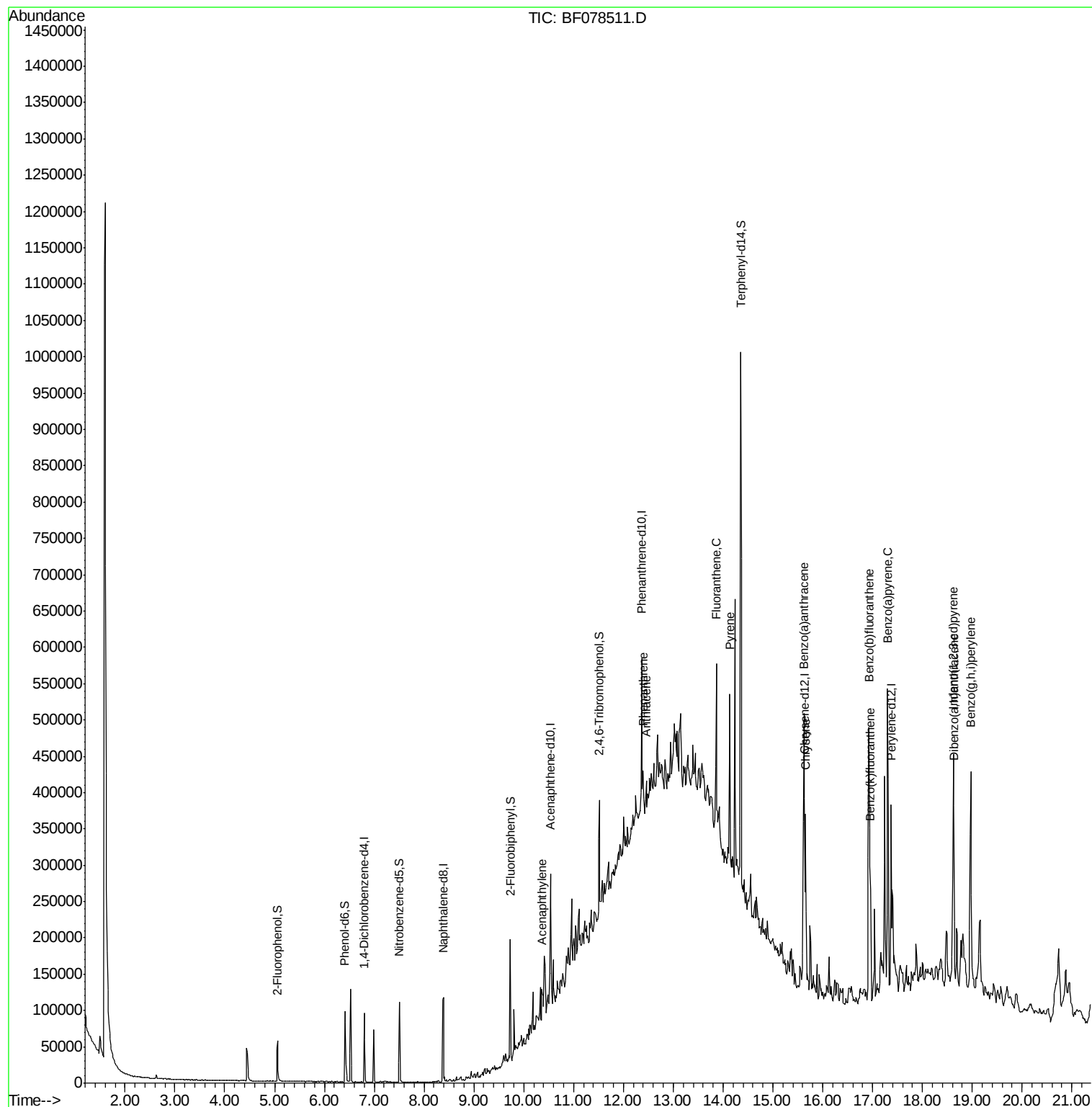
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	10.36	152	12659	2.77	ng	# 90
70) Phenanthrene	12.40	178	31035	6.31	ng	# 89
71) Anthracene	12.46	178	13265	2.74	ng	# 76
74) Fluoranthene	13.86	202	103044	19.87	ng	94
77) Pyrene	14.14	202	123480	18.17	ng	# 96
80) Benzo(a)anthracene	15.62	228	124993	19.40	ng	96
82) Chrysene	15.66	228	105684m	17.46	ng	
85) Indeno(1,2,3-cd)pyrene	18.62	276	204393m	29.76	ng	
87) Benzo(b)fluoranthene	16.93	252	269642m	36.85	ng	
88) Benzo(k)fluoranthene	16.95	252	52068m	8.01	ng	
89) Benzo(a)pyrene	17.30	252	224354	35.14	ng	# 92
90) Dibenzo(a,h)anthracene	18.63	278	39966m	6.25	ng	
91) Benzo(g,h,i)perylene	18.97	276	217268m	33.90	ng	

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

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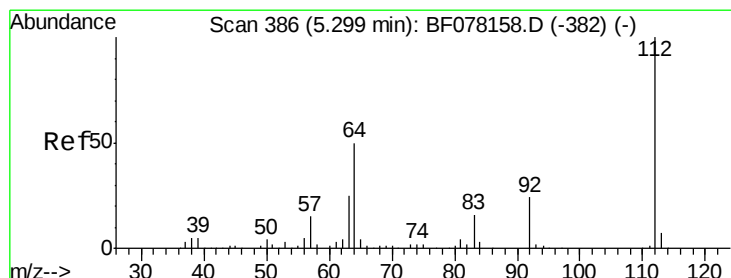
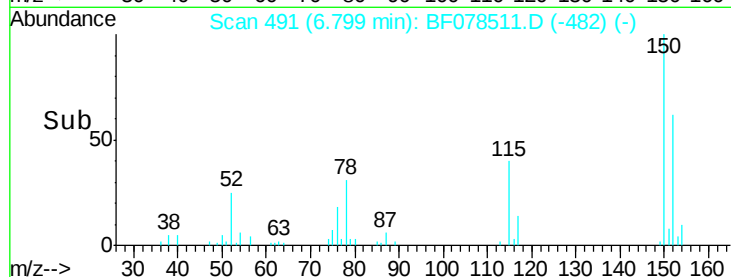
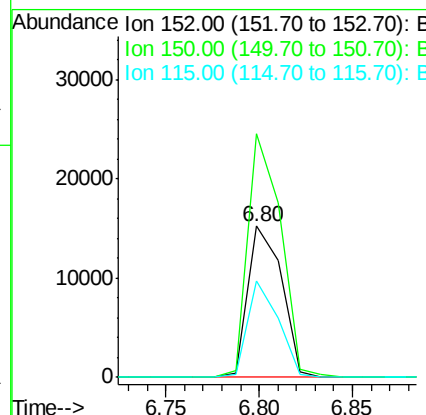
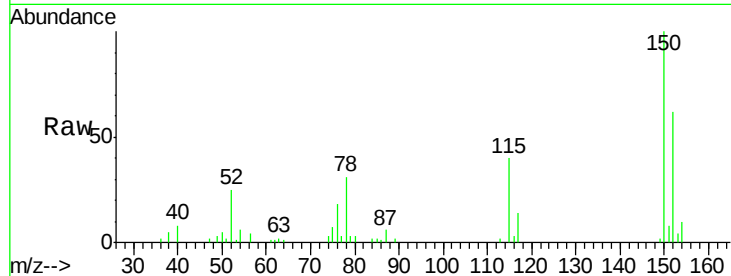




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.80 min Scan# 491
 Delta R.T. -0.00 min
 Lab File: BF078511.D
 Acq: 14 Apr 2015 20:57

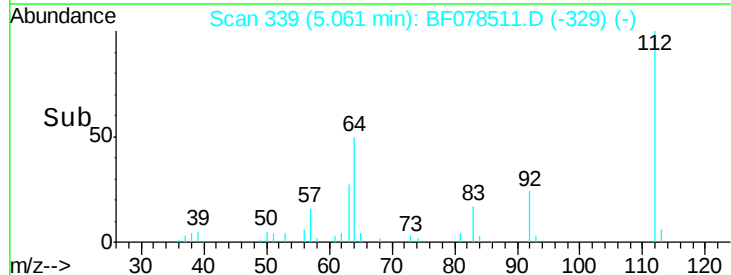
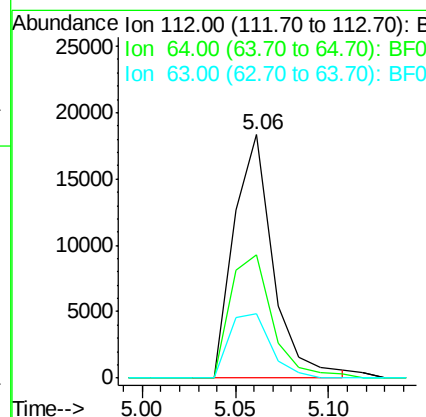
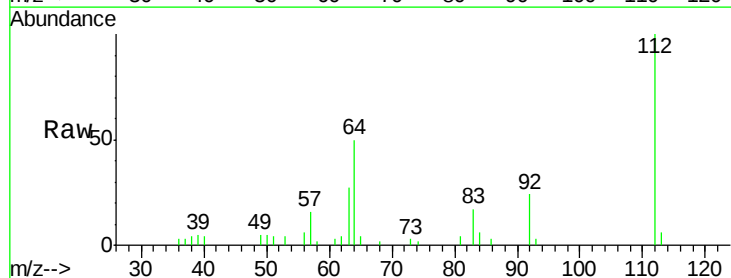
Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02B

Tgt Ion:152 Resp: 19242
 Ion Ratio Lower Upper
 152 100
 150 161.0 125.9 188.9
 115 64.1 52.7 79.1



#5
 2-Fluorophenol
 Concen: 23.10 ng
 RT: 5.06 min Scan# 339
 Delta R.T. 0.01 min
 Lab File: BF078511.D
 Acq: 14 Apr 2015 20:57

Tgt Ion:112 Resp: 26961
 Ion Ratio Lower Upper
 112 100
 64 50.4 39.9 59.9
 63 26.6 20.2 30.4





#7

Phenol-d6

Concen: 38.21 ng

RT: 6.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

Instrument :

BNA_F

ClientSampleId :

HS-SB02B

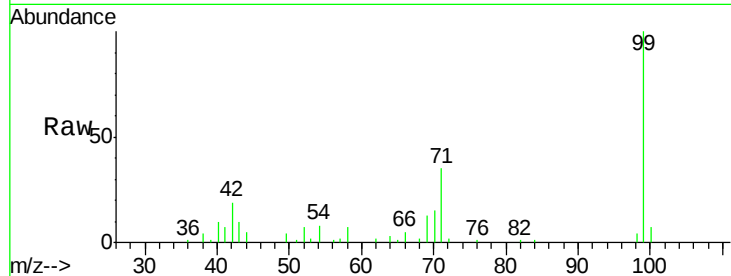
Tgt Ion: 99 Resp: 55882

Ion Ratio Lower Upper

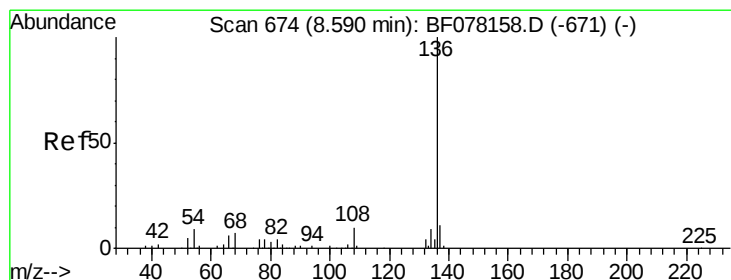
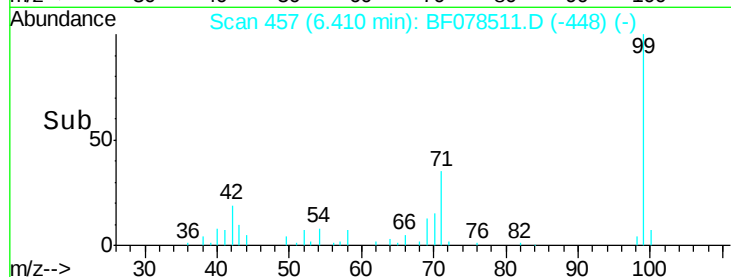
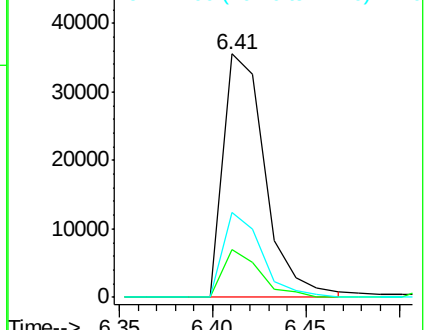
99 100

42 19.4 14.8 22.2

71 35.1 26.6 39.8



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: 8.39 min Scan# 630

Delta R.T. -0.00 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

Tgt Ion: 136 Resp: 83173

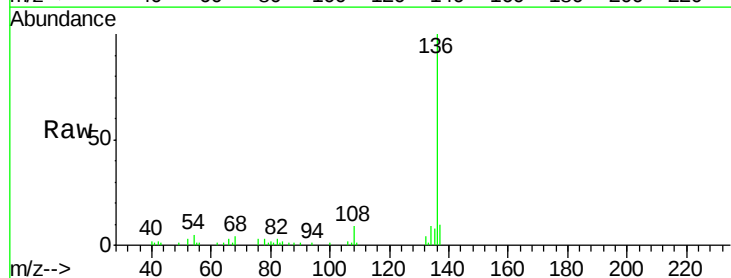
Ion Ratio Lower Upper

136 100

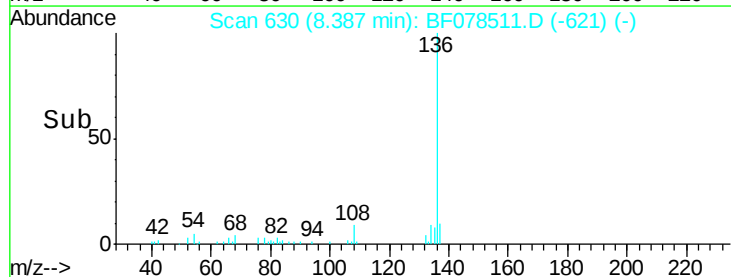
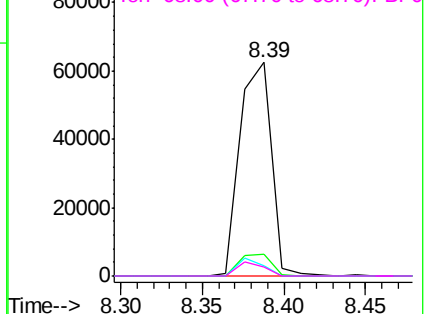
137 10.5 9.0 13.4

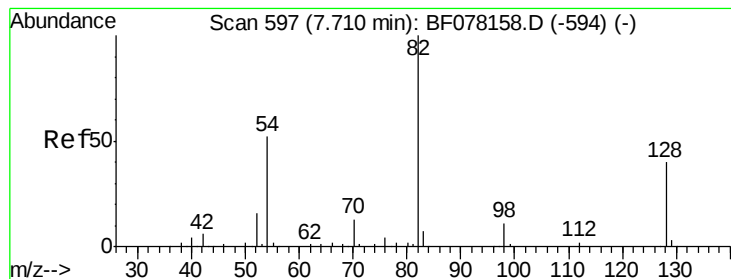
54 5.0 7.0 10.6#

68 4.1 5.4 8.2#



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: 27.38 ng

RT: 7.51 min Scan# 553

Delta R.T. -0.00 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

Instrument :

BNA_F

ClientSampled :

HS-SB02B

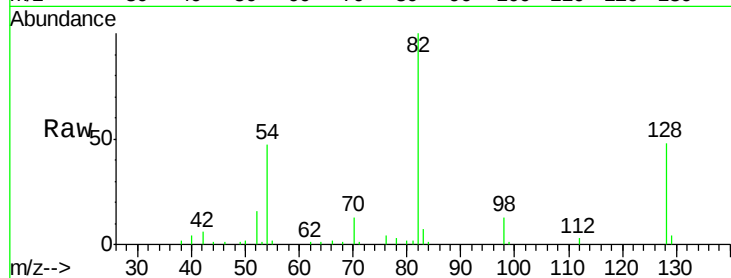
Tgt Ion: 82 Resp: 37574

Ion Ratio Lower Upper

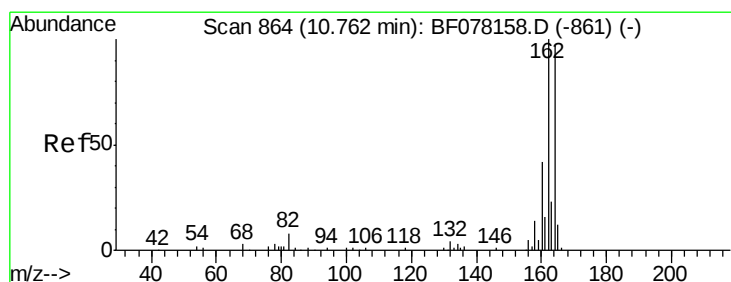
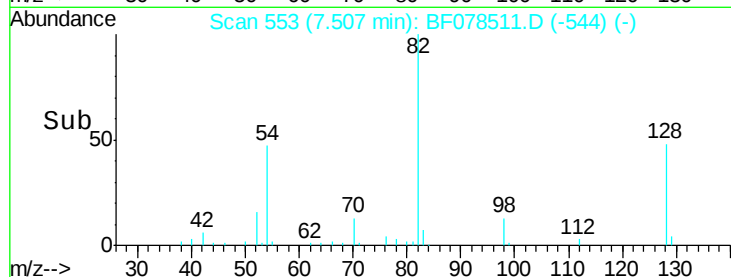
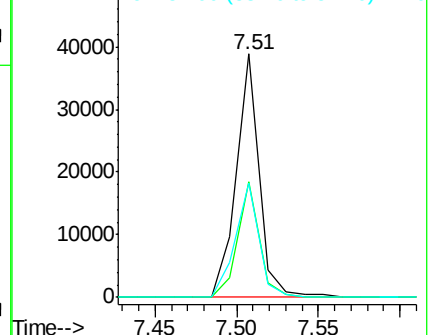
82 100

128 47.6 31.8 47.8

54 47.2 41.5 62.3



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.54 min Scan# 818

Delta R.T. -0.00 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

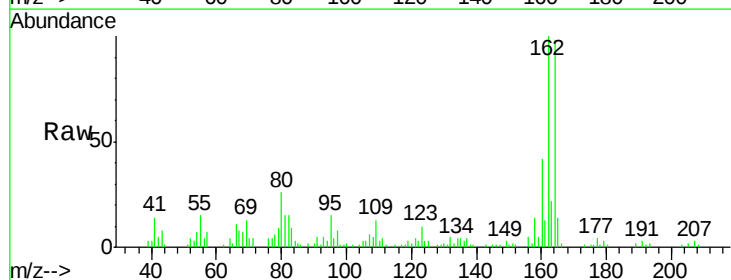
Tgt Ion: 164 Resp: 43946

Ion Ratio Lower Upper

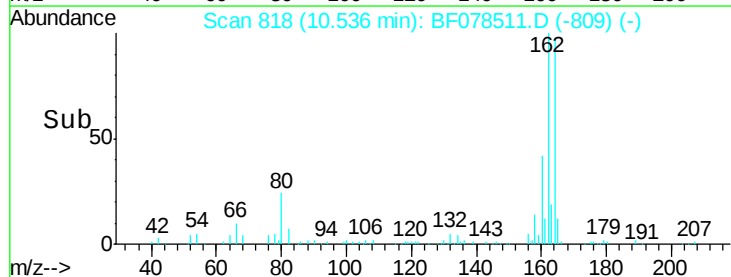
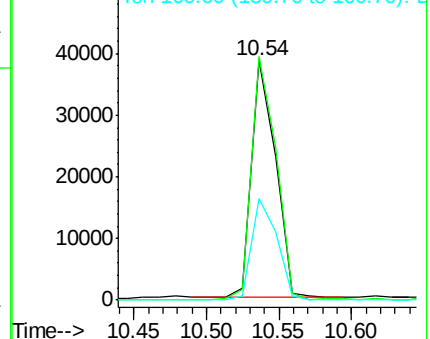
164 100

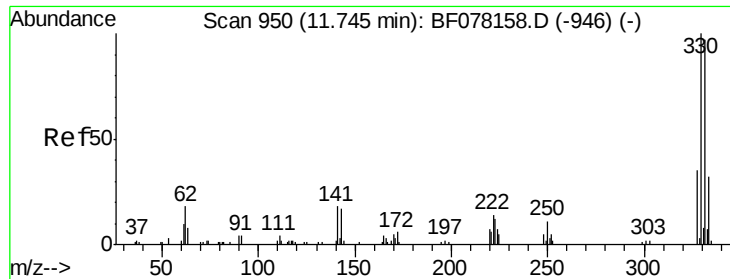
162 101.6 82.2 123.2

160 42.3 34.7 52.1



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

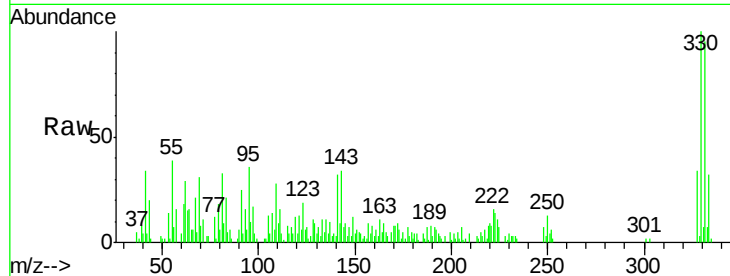




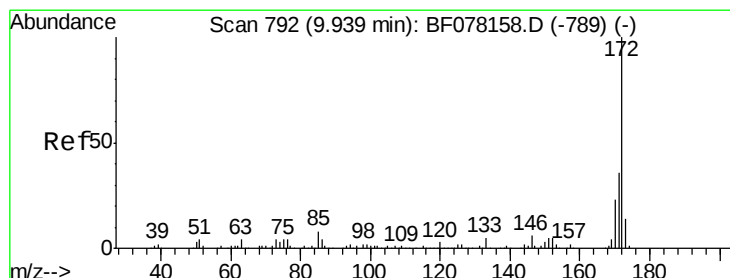
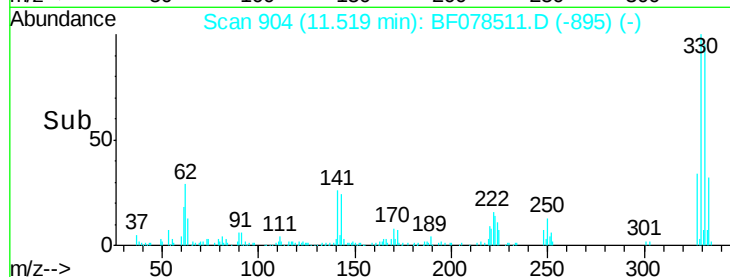
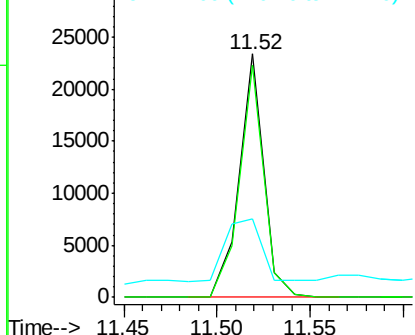
#41
 2,4,6-Tribromophenol
 Concen: 59.24 ng
 RT: 11.52 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BF078511.D
 Acq: 14 Apr 2015 20:57

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02B

Tgt Ion:330 Resp: 21592
 Ion Ratio Lower Upper
 330 100
 332 95.1 78.6 117.8
 141 44.4 31.2 46.8

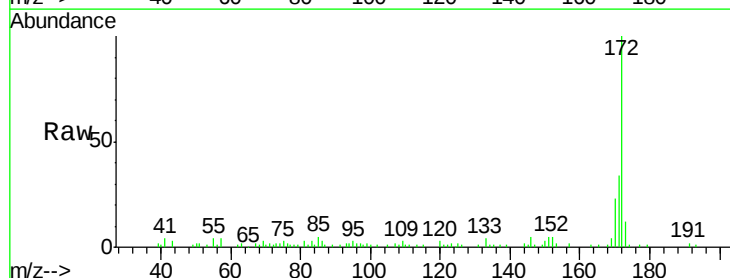


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

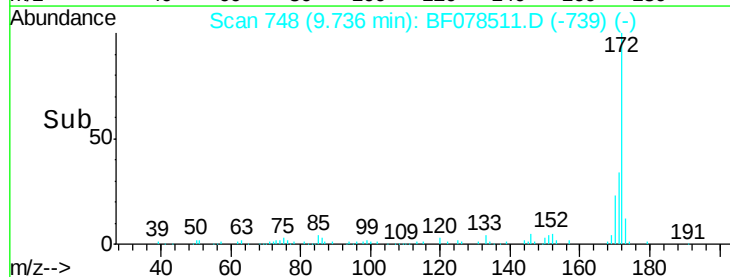
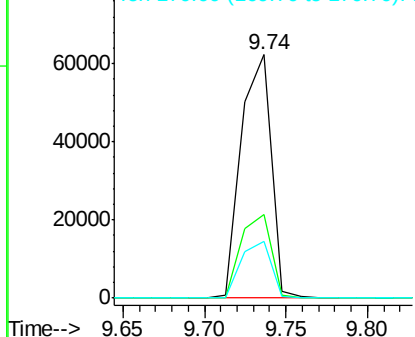


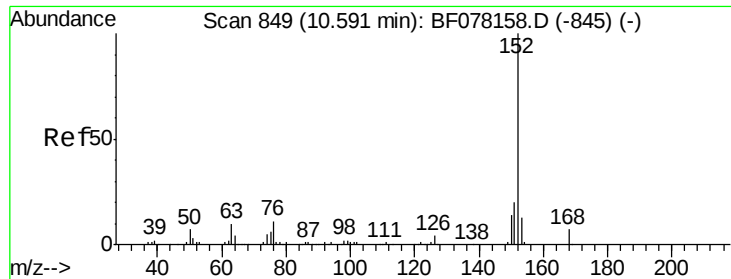
#44
 2-Fluorobiphenyl
 Concen: 25.72 ng
 RT: 9.74 min Scan# 748
 Delta R.T. -0.00 min
 Lab File: BF078511.D
 Acq: 14 Apr 2015 20:57

Tgt Ion:172 Resp: 79072
 Ion Ratio Lower Upper
 172 100
 171 34.3 28.6 42.8
 170 23.2 18.5 27.7



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: 2.77 ng

RT: 10.36 min Scan# 803

Delta R.T. -0.00 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

Instrument :

BNA_F

ClientSampleId :

HS-SB02B

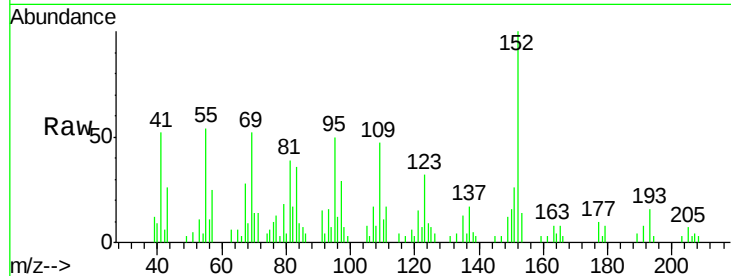
Tgt Ion:152 Resp: 12659

Ion Ratio Lower Upper

152 100

151 25.7 15.7 23.5#

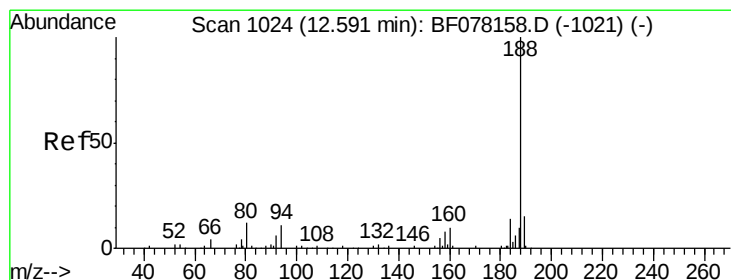
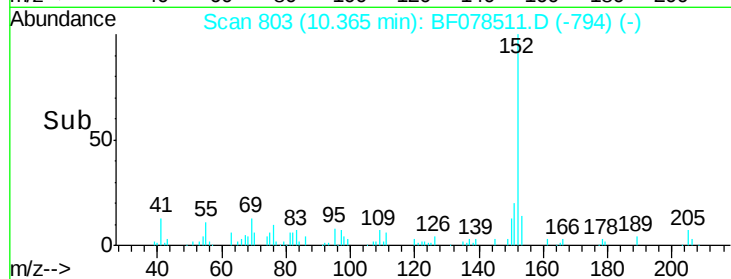
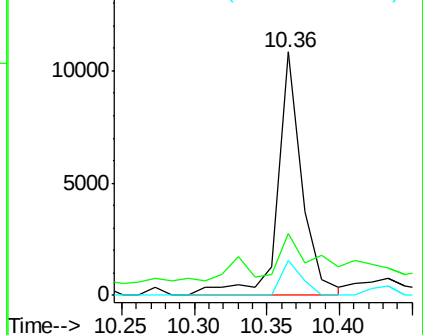
153 14.4 10.2 15.2



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.36 min Scan# 978

Delta R.T. -0.00 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

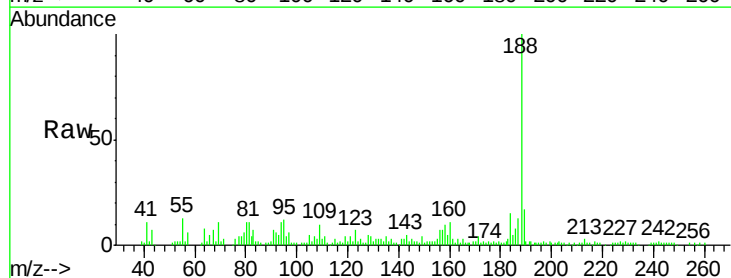
Tgt Ion:188 Resp: 85029

Ion Ratio Lower Upper

188 100

94 11.5 9.0 13.4

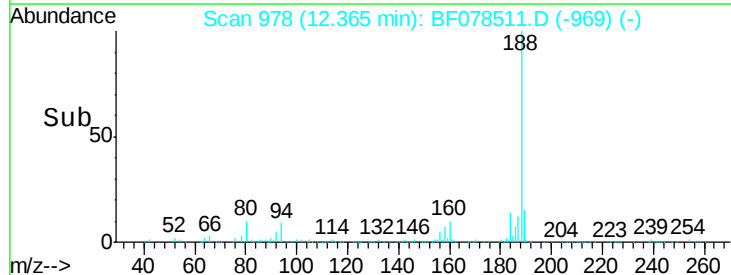
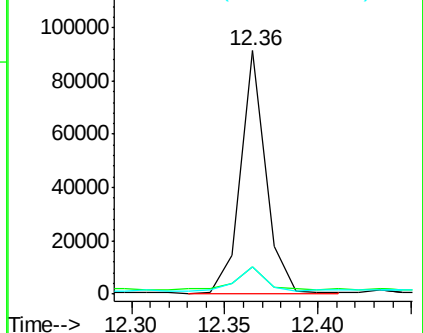
80 11.3 9.5 14.3

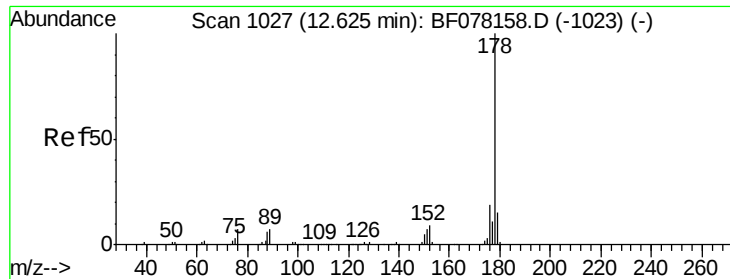


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 6.31 ng

RT: 12.40 min Scan# 981

Delta R.T. 0.01 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

Instrument :

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ClientSampleId :

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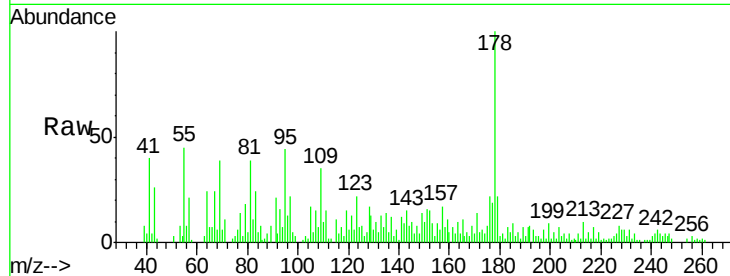
Tgt Ion:178 Resp: 31035

Ion Ratio Lower Upper

178 100

176 22.1 15.4 23.0

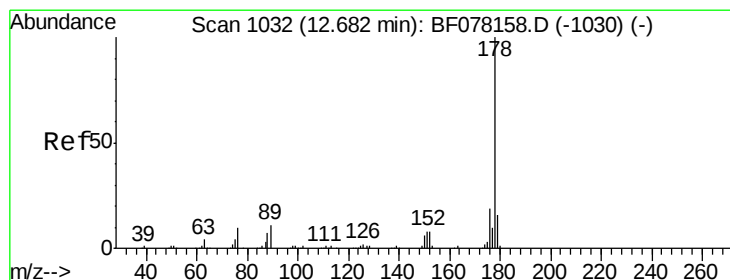
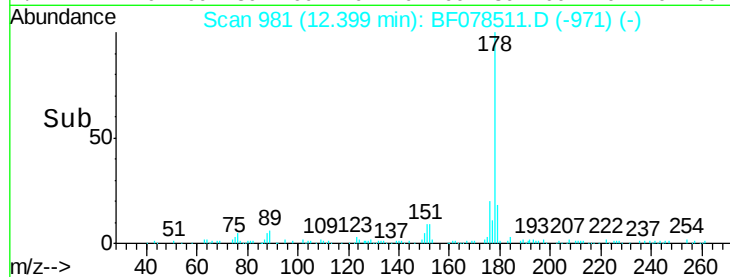
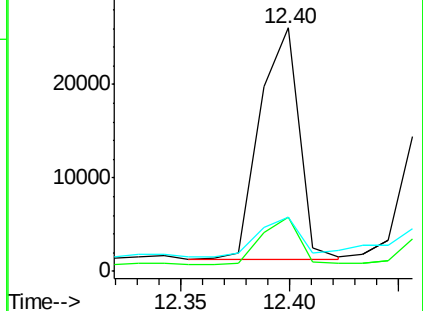
179 22.5 12.2 18.2#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.74 ng

RT: 12.46 min Scan# 986

Delta R.T. -0.00 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

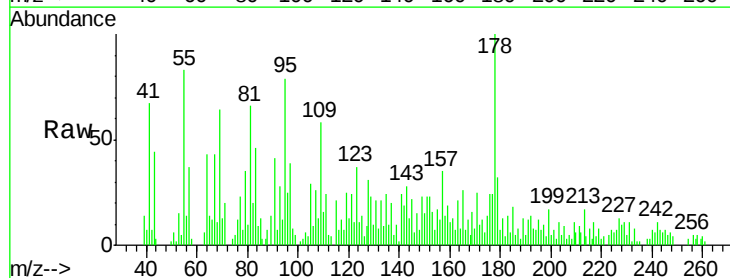
Tgt Ion:178 Resp: 13265

Ion Ratio Lower Upper

178 100

176 23.8 14.8 22.2#

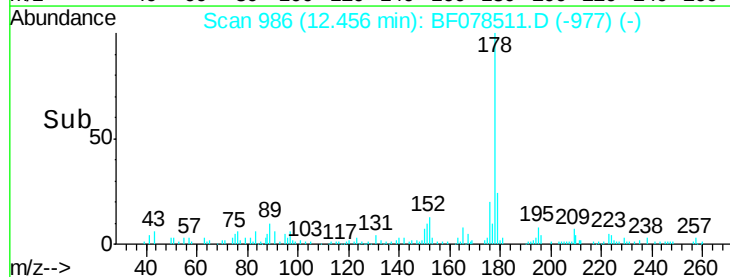
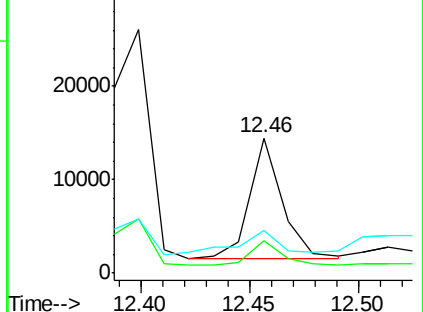
179 31.8 12.4 18.6#

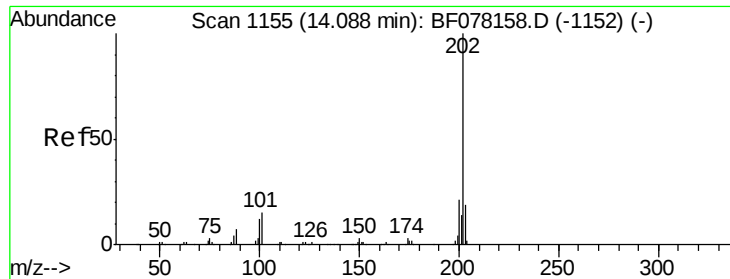


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

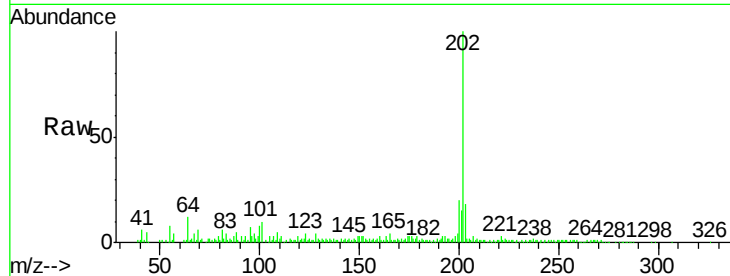




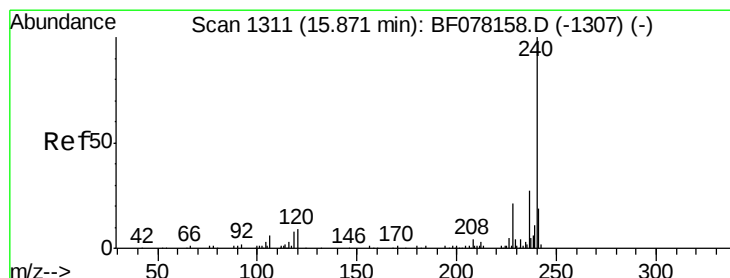
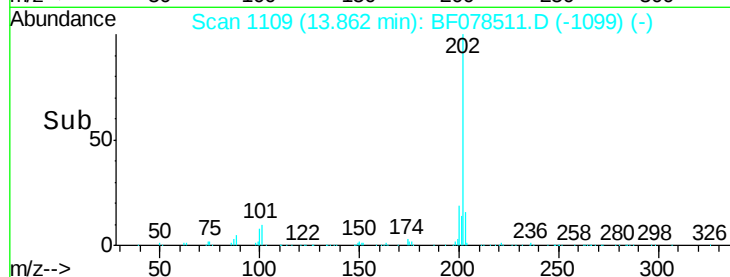
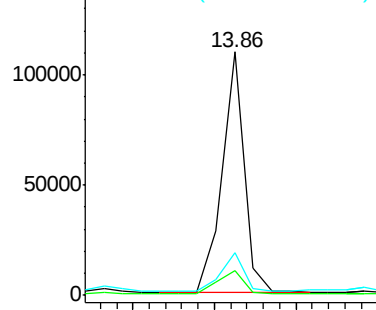
#74
 Fluoranthene
 Concen: 19.87 ng
 RT: 13.86 min Scan# 1109
 Delta R.T. 0.01 min
 Lab File: BF078511.D
 Acq: 14 Apr 2015 20:57

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02B

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	35.2
203	17.7	0.0	38.5

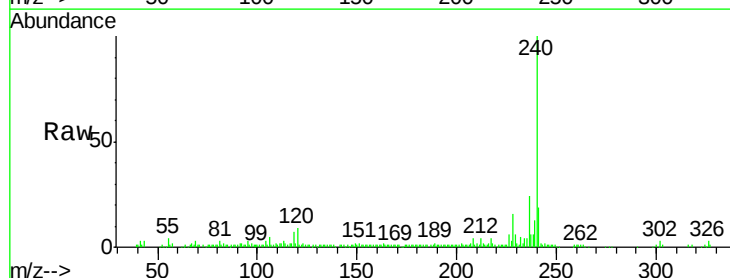


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

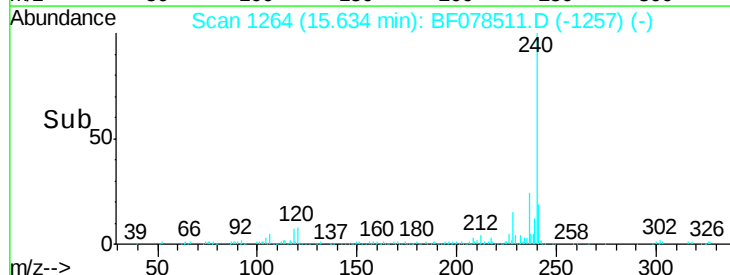
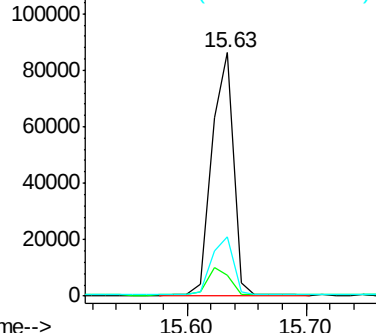


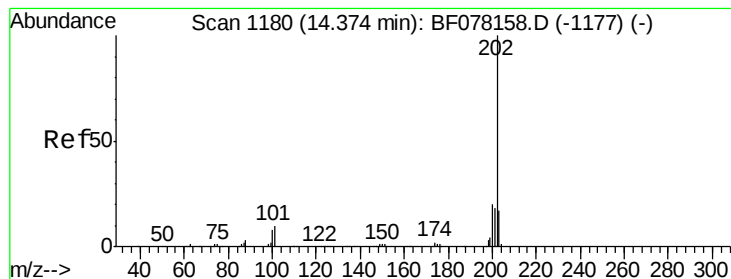
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 15.63 min Scan# 1264
 Delta R.T. -0.02 min
 Lab File: BF078511.D
 Acq: 14 Apr 2015 20:57

Tgt Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.1	10.7
236	24.1	21.4	32.2



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: 18.17 ng

RT: 14.14 min Scan# 1133

Delta R.T. 0.01 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

Instrument :

BNA_F

ClientSampleId :

HS-SB02B

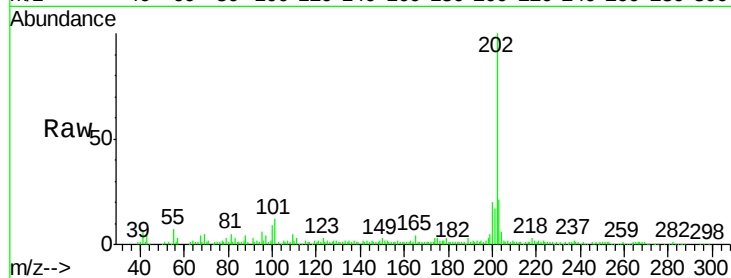
Tgt Ion:202 Resp: 123480

Ion Ratio Lower Upper

202 100

200 20.3 16.3 24.5

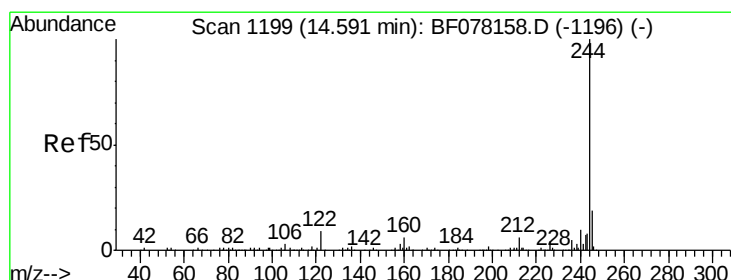
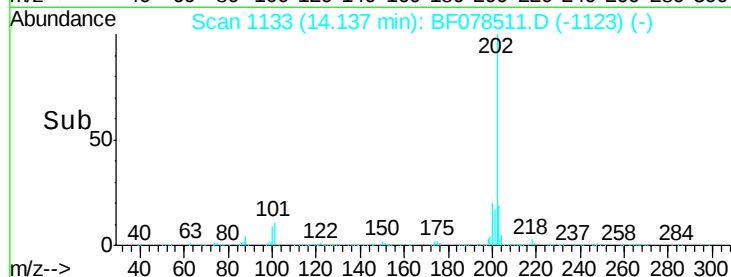
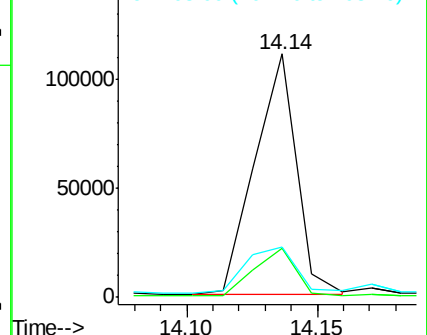
203 20.8 13.8 20.6#



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: 66.30 ng

RT: 14.35 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

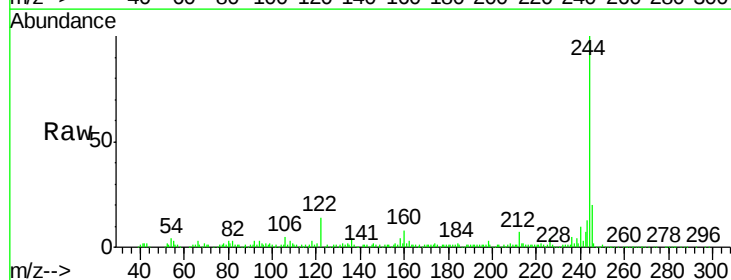
Tgt Ion:244 Resp: 317717

Ion Ratio Lower Upper

244 100

212 7.2 5.0 7.4

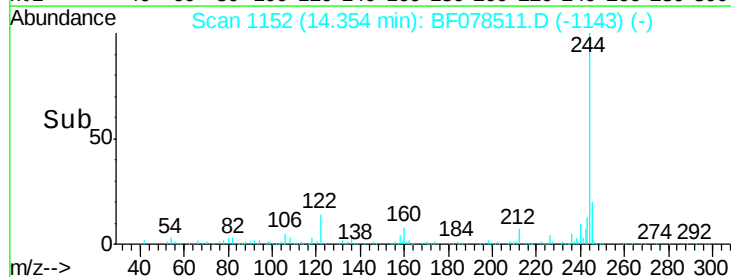
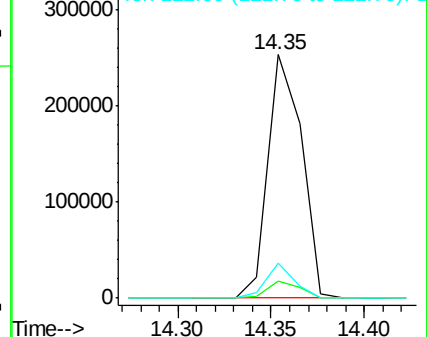
122 14.4 7.1 10.7#

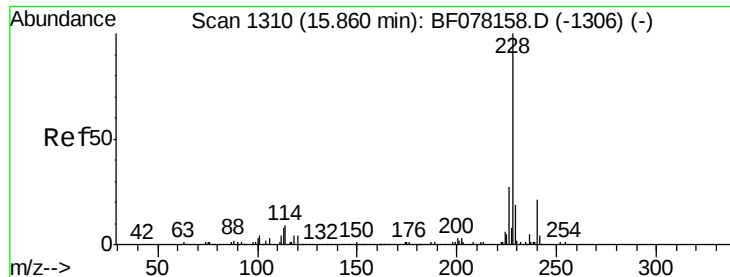


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 19.40 ng

RT: 15.62 min Scan# 1263

Delta R.T. -0.02 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

Instrument :

BNA_F

ClientSampleId :

HS-SB02B

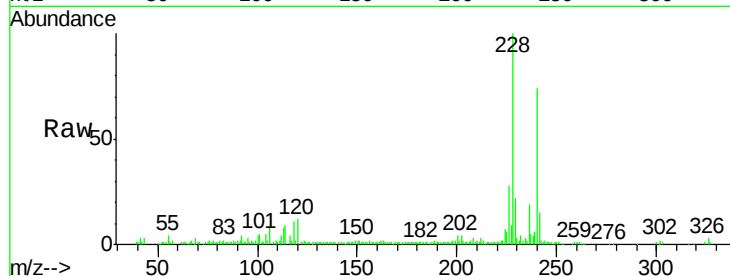
Tgt Ion:228 Resp: 124993

Ion Ratio Lower Upper

228 100

226 27.8 21.3 31.9

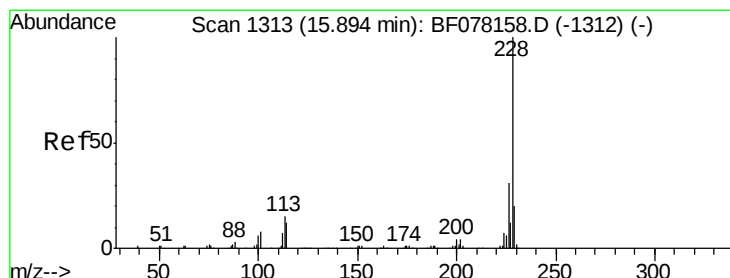
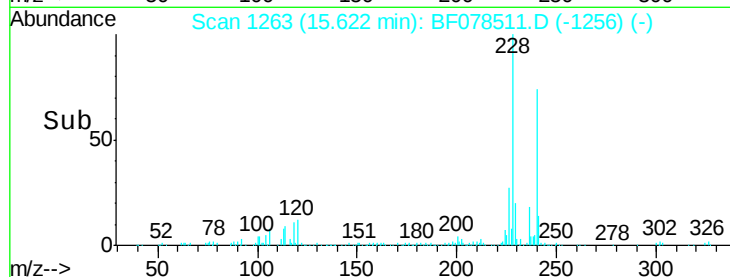
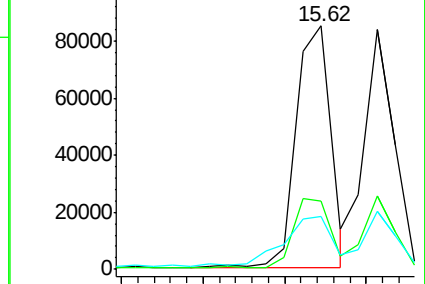
229 21.8 15.4 23.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 17.46 ng m

RT: 15.66 min Scan# 1266

Delta R.T. -0.03 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

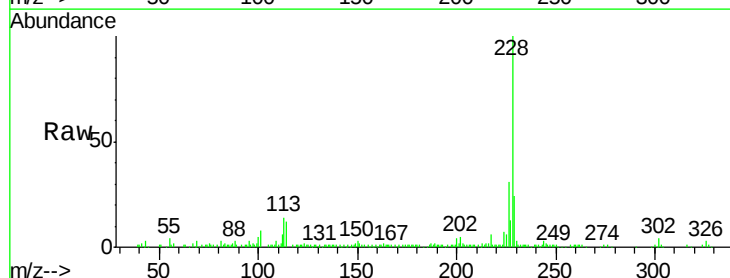
Tgt Ion:228 Resp: 105684

Ion Ratio Lower Upper

228 100

226 30.5 24.2 36.4

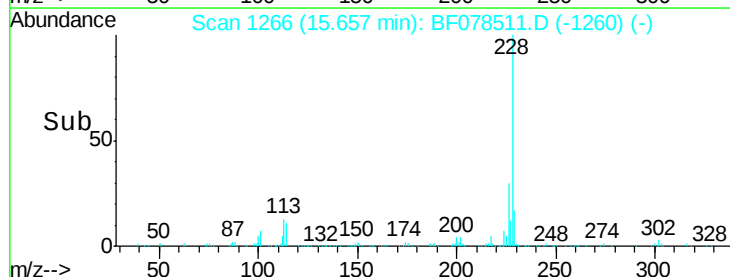
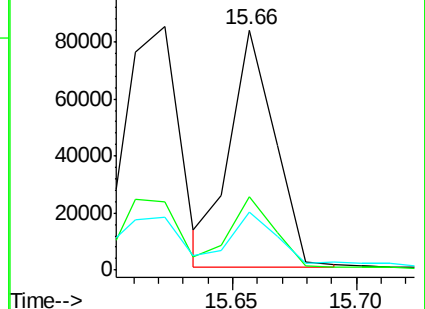
229 24.3 15.8 23.8#

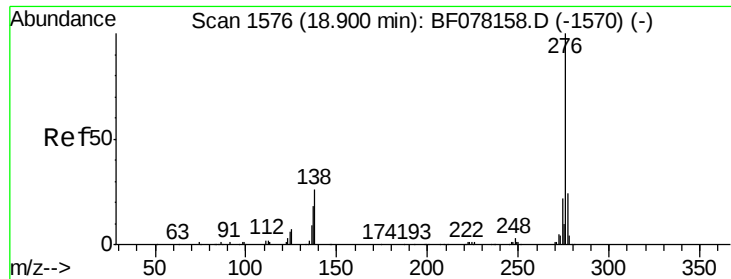


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

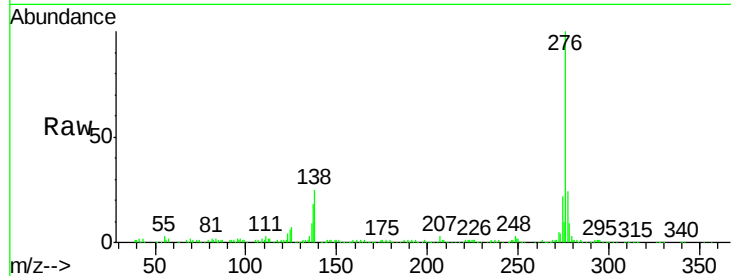




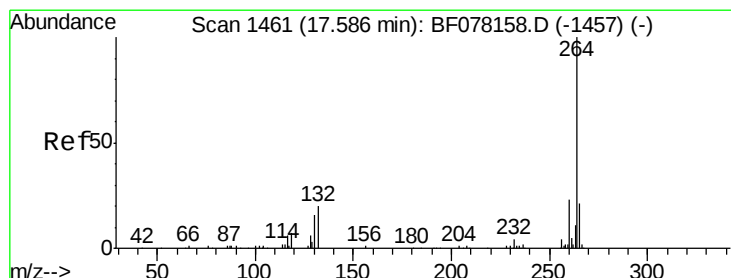
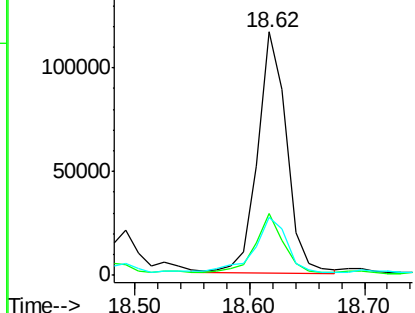
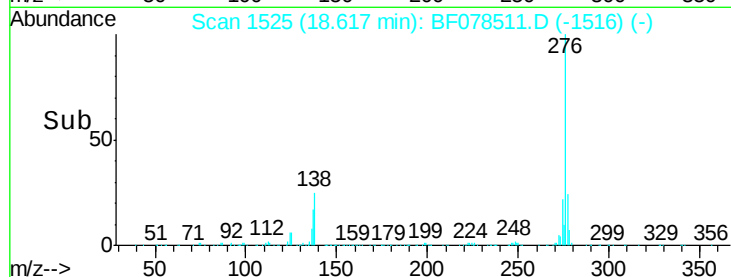
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 29.76 ng m
 RT: 18.62 min Scan# 1525
 Delta R.T. -0.19 min
 Lab File: BF078511.D
 Acq: 14 Apr 2015 20:57

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02B

Tgt Ion	Ratio	Lower	Upper
276	100		
138	2.8	16.9	25.3#
277	1.8	15.8	23.6#

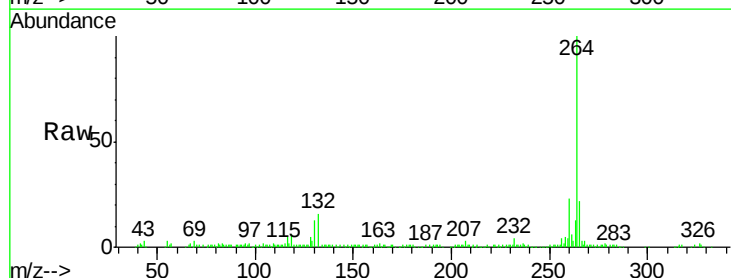


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

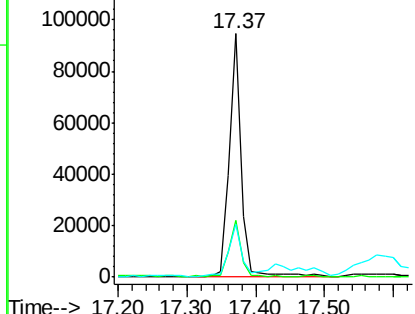
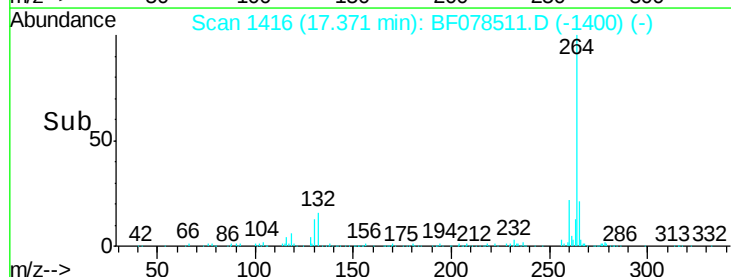


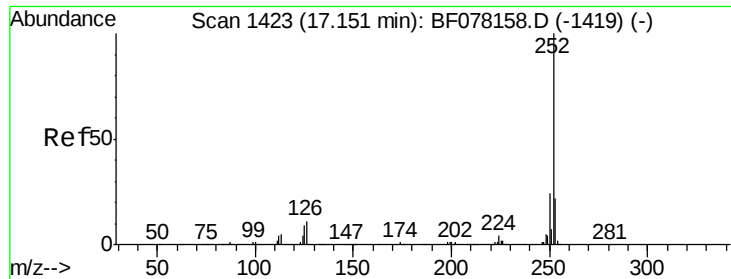
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.37 min Scan# 1416
 Delta R.T. -0.11 min
 Lab File: BF078511.D
 Acq: 14 Apr 2015 20:57

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	27.8
265	21.8	17.0	25.6



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

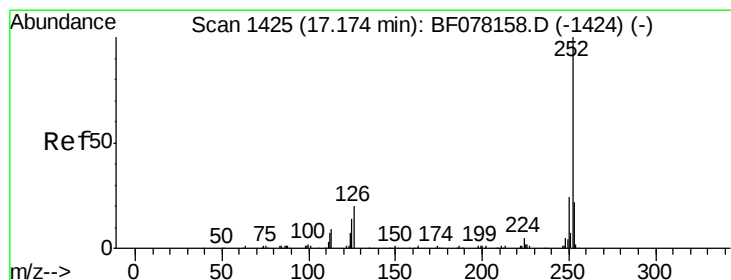
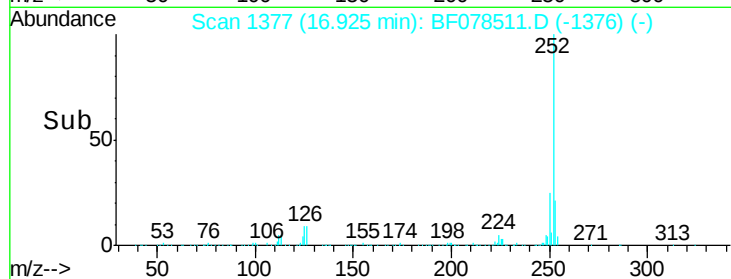
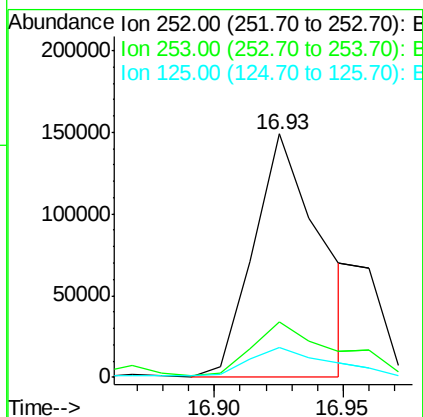
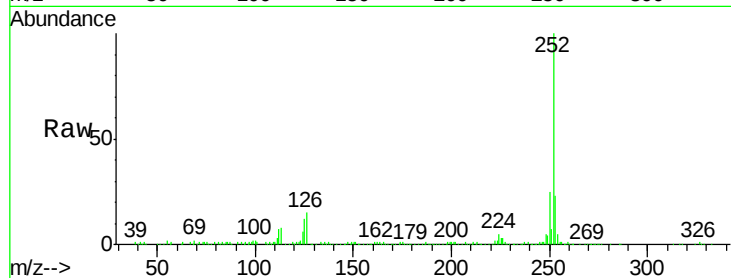




#87
Benzo(b)fluoranthene
Concen: 36.85 ng m
RT: 16.93 min Scan# 1377
Delta R.T. -0.09 min
Lab File: BF078511.D
Acq: 14 Apr 2015 20:57

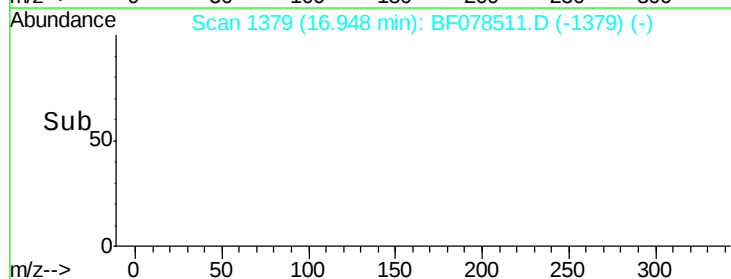
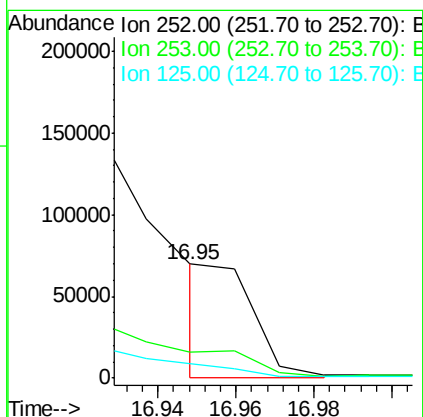
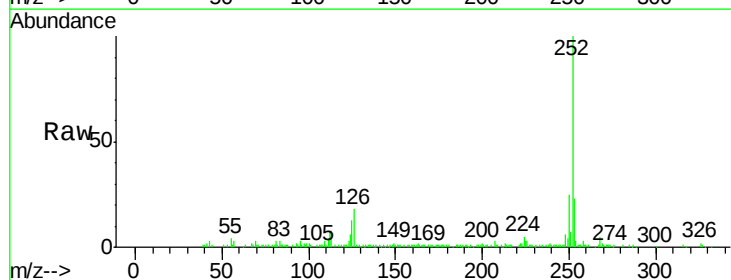
Instrument :
BNA_F
ClientSampleId :
HS-SB02B

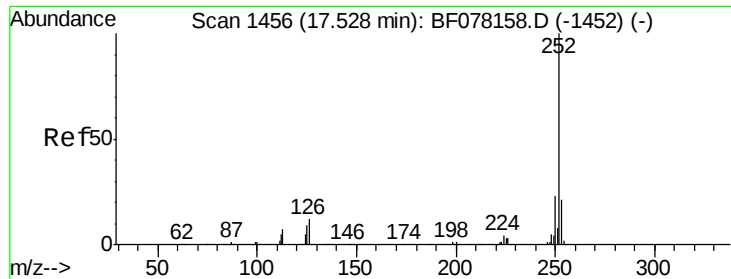
Tgt Ion:252 Resp: 269642
Ion Ratio Lower Upper
252 100
253 22.5 17.2 25.8
125 12.3 7.0 10.4#



#88
Benzo(k)fluoranthene
Concen: 8.01 ng m
RT: 16.95 min Scan# 1379
Delta R.T. -0.10 min
Lab File: BF078511.D
Acq: 14 Apr 2015 20:57

Tgt Ion:252 Resp: 52068
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 13.1 11.6 17.4





#89

Benzo(a)pyrene

Concen: 35.14 ng

RT: 17.30 min Scan# 1410

Delta R.T. -0.11 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

Instrument :

BNA_F

ClientSampleId :

HS-SB02B

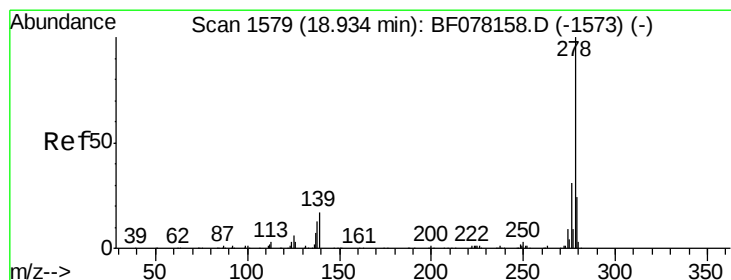
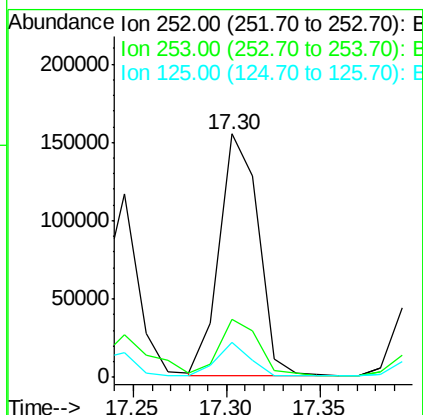
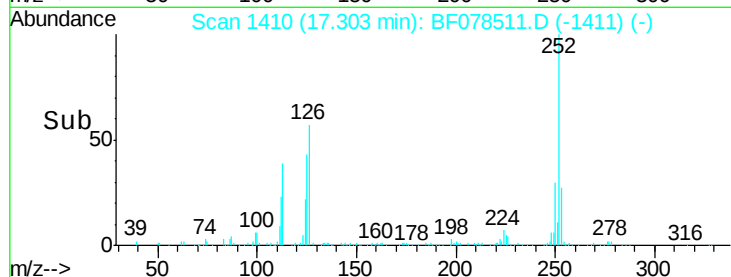
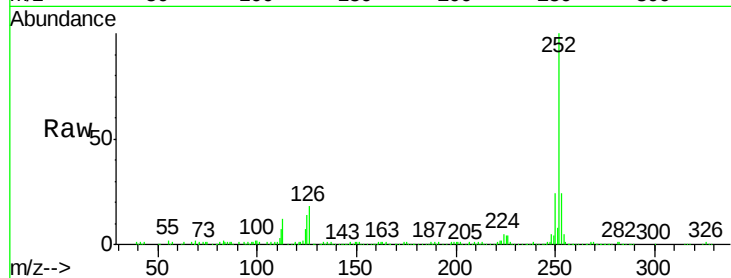
Tgt Ion:252 Resp: 224354

Ion Ratio Lower Upper

252 100

253 23.8 16.8 25.2

125 14.2 7.4 11.0#



#90

Dibenzo(a,h)anthracene

Concen: 6.25 ng m

RT: 18.63 min Scan# 1526

Delta R.T. -0.21 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

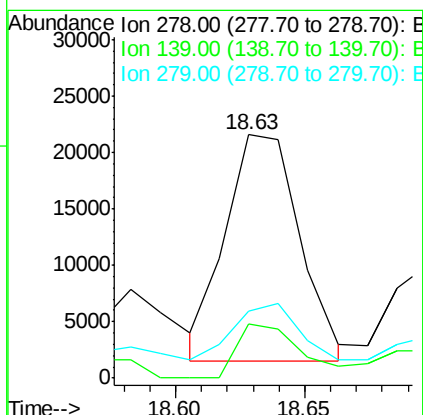
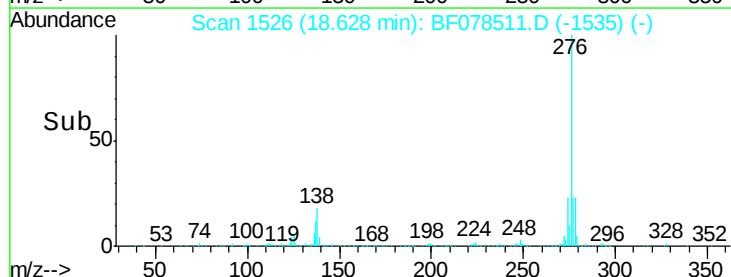
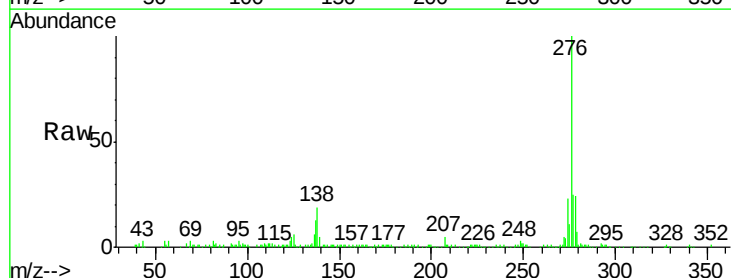
Tgt Ion:278 Resp: 39966

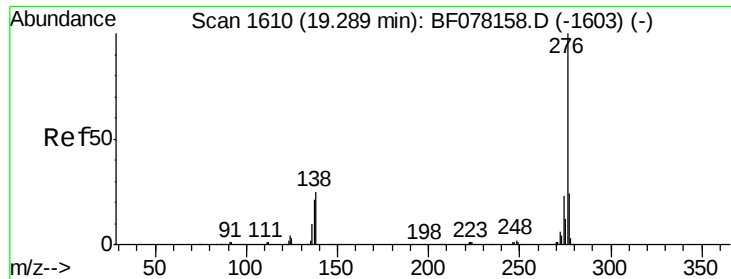
Ion Ratio Lower Upper

278 100

139 22.2 13.6 20.4#

279 27.4 19.0 28.6





#91

Benzo(g,h,i)perylene

Concen: 33.90 ng m

RT: 18.97 min Scan# 1556

Delta R.T. -0.18 min

Lab File: BF078511.D

Acq: 14 Apr 2015 20:57

Instrument :

BNA_F

ClientSampleId :

HS-SB02B

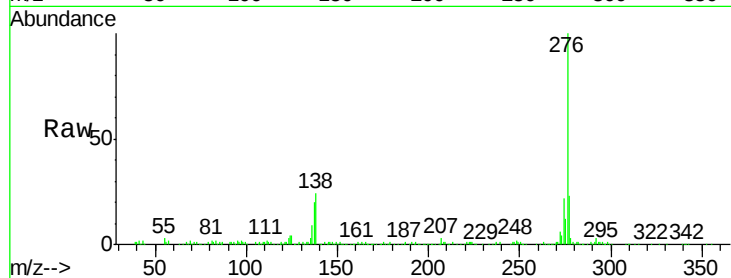
Tgt Ion: 276 Resp: 217268

Ion Ratio Lower Upper

276 100

277 23.3 19.0 28.4

138 23.5 19.9 29.9



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

