

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041415\
 Data File : BF078514.D
 Acq On : 14 Apr 2015 22:23
 Operator : TP/IZ
 Sample : G1828-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02C

Quant Time: Apr 15 02:18:38 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

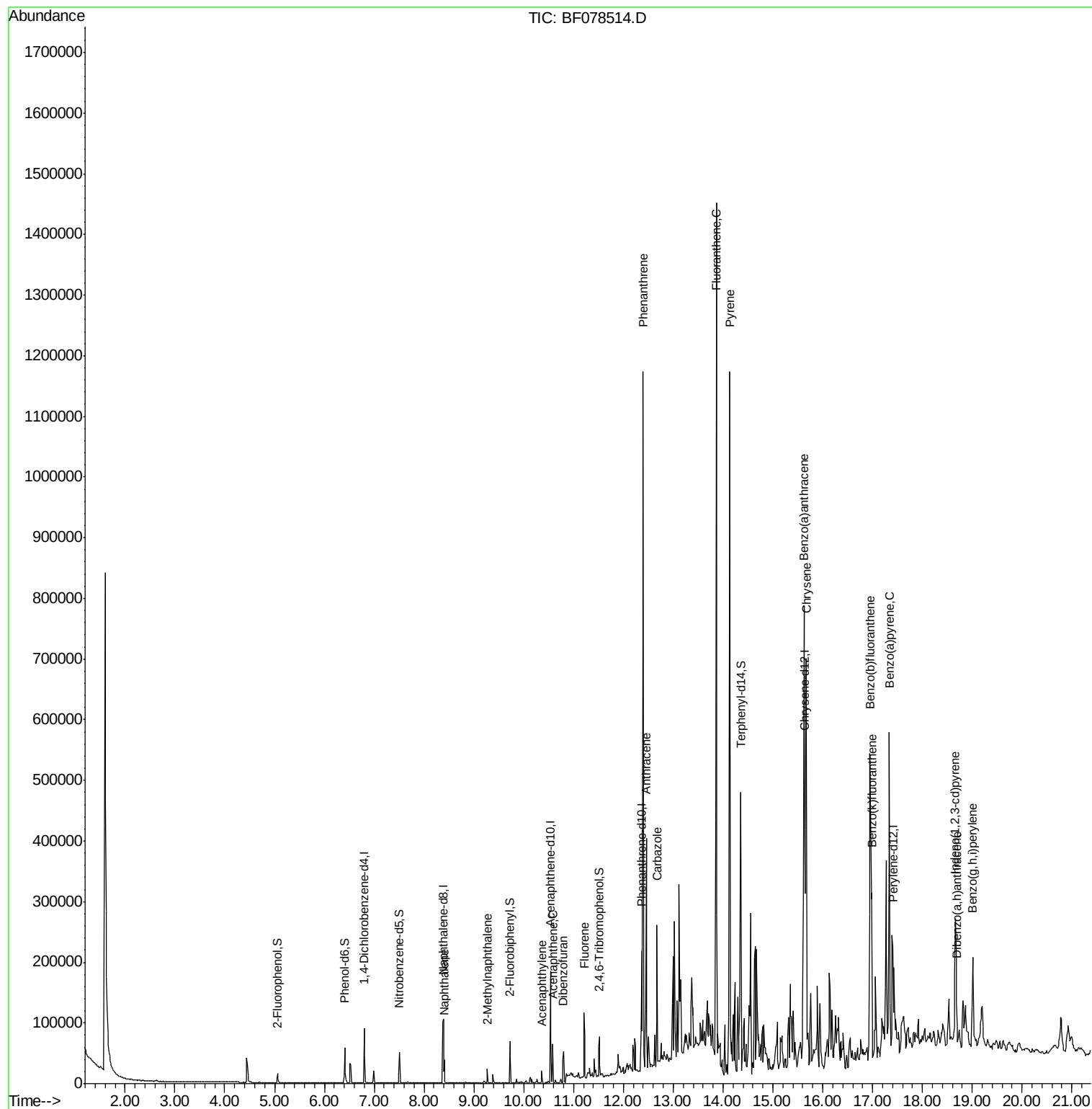
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	17418	20.00	ng	0.00
21) Naphthalene-d8	8.39	136	75607	20.00	ng	0.00
38) Acenaphthene-d10	10.54	164	40869	20.00	ng	0.00
63) Phenanthrene-d10	12.36	188	84274	20.00	ng	0.00
75) Chrysene-d12	15.63	240	97259	20.00	ng	-0.02
86) Perylene-d12	17.41	264	105034	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	7617	7.21	ng	0.01
7) Phenol-d6	6.41	99	25170	19.01	ng	0.00
23) Nitrobenzene-d5	7.51	82	18237	14.62	ng	0.00
41) 2,4,6-Tribromophenol	11.52	330	6068	17.90	ng	0.00
44) 2-Fluorobiphenyl	9.72	172	30639	10.72	ng	-0.01
78) Terphenyl-d14	14.35	244	156257	36.30	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.41	128	20356	5.17	ng	100
37) 2-Methylnaphthalene	9.27	142	7396	2.77	ng	96
48) Acenaphthylene	10.36	152	9347	2.20	ng	# 96
51) Acenaphthene	10.58	154	18394	7.69	ng	98
54) Dibenzofuran	10.80	168	29626	8.11	ng	95
57) Fluorene	11.21	166	39755	13.43	ng	100
70) Phenanthrene	12.40	178	549407	112.70	ng	100
71) Anthracene	12.46	178	156918	32.67	ng	99
72) Carbazole	12.67	167	98638	21.91	ng	99
74) Fluoranthene	13.86	202	610030	118.66	ng	96
77) Pyrene	14.14	202	541796	88.74	ng	97
80) Benzo(a)anthracene	15.62	228	356479	61.60	ng	97
82) Chrysene	15.67	228	280190	51.53	ng	96
85) Indeno(1,2,3-cd)pyrene	18.66	276	130971m	21.23	ng	
87) Benzo(b)fluoranthene	16.95	252	363961m	56.07	ng	
88) Benzo(k)fluoranthene	16.98	252	89213m	15.46	ng	
89) Benzo(a)pyrene	17.34	252	252949	44.65	ng	95
90) Dibenzo(a,h)anthracene	18.69	278	38938m	6.86	ng	
91) Benzo(g,h,i)perylene	19.01	276	110327m	19.40	ng	

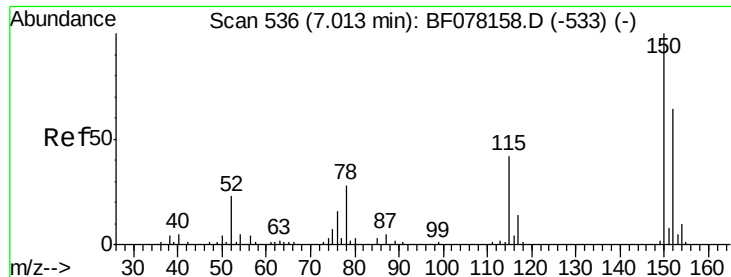
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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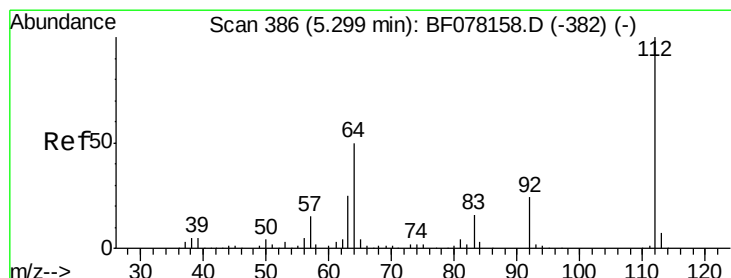
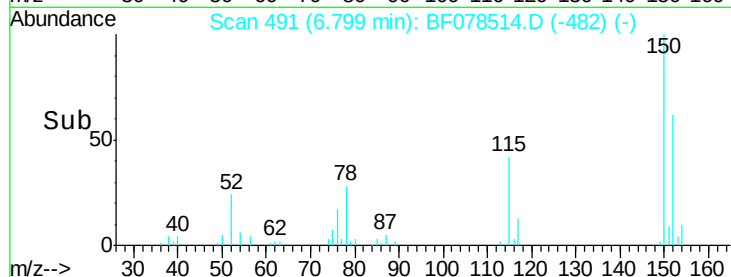
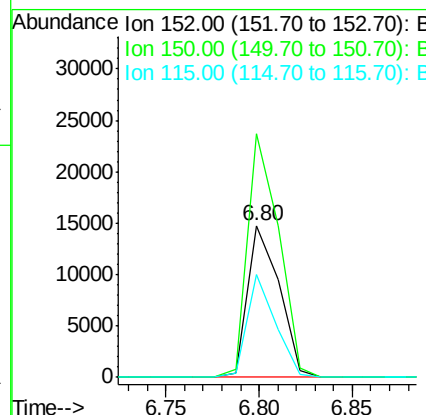
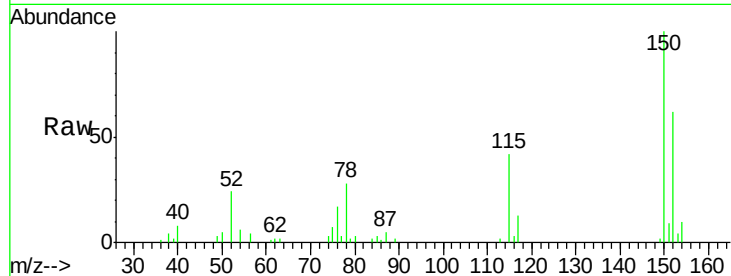




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.80 min Scan# 491
 Delta R.T. -0.00 min
 Lab File: BF078514.D
 Acq: 14 Apr 2015 22:23

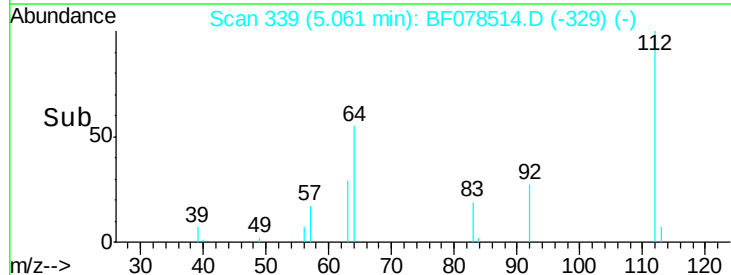
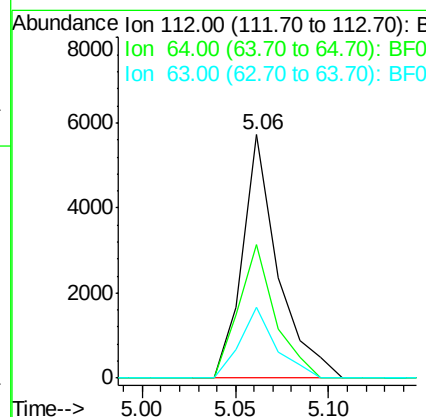
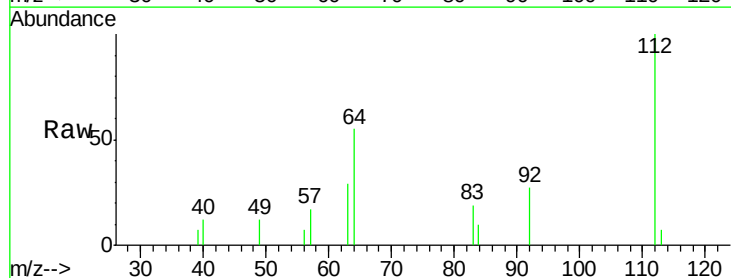
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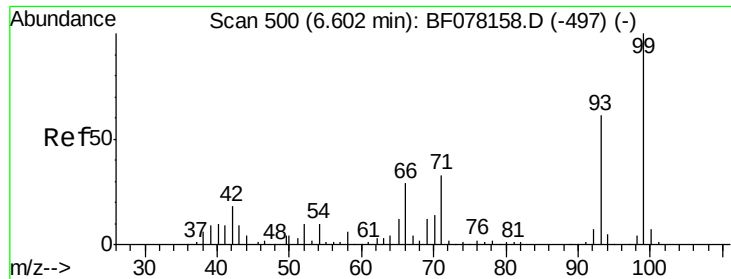
Tgt Ion:152 Resp: 17418
 Ion Ratio Lower Upper
 152 100
 150 160.2 125.9 188.9
 115 68.0 52.7 79.1



#5
 2-Fluorophenol
 Concen: 7.21 ng
 RT: 5.06 min Scan# 339
 Delta R.T. 0.01 min
 Lab File: BF078514.D
 Acq: 14 Apr 2015 22:23

Tgt Ion:112 Resp: 7617
 Ion Ratio Lower Upper
 112 100
 64 54.8 39.9 59.9
 63 29.0 20.2 30.4





#7

Phenol-d6

Concen: 19.01 ng

RT: 6.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

Instrument :

BNA_F

ClientSampleId :

HS-SB02C

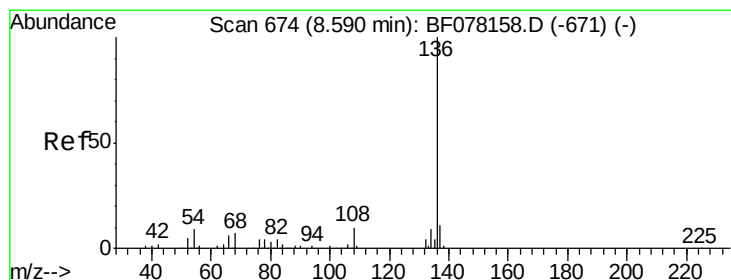
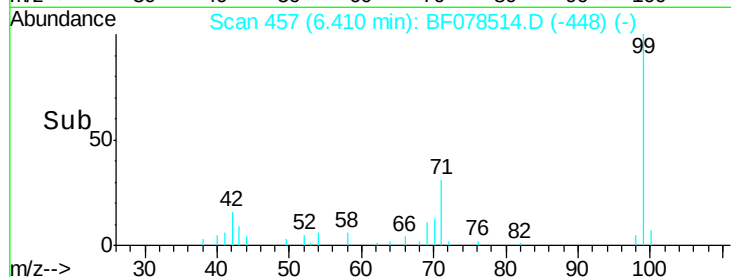
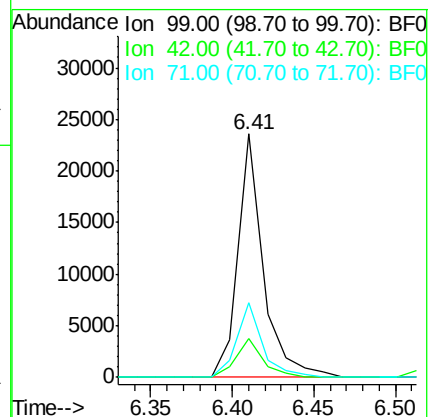
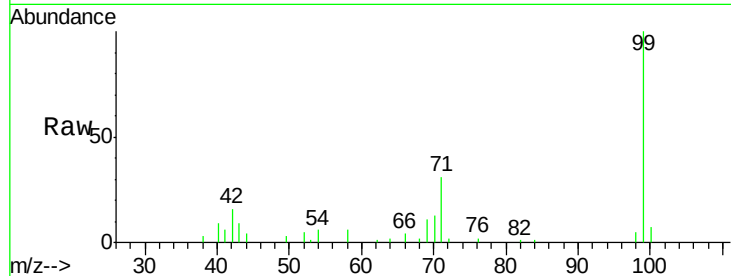
Tgt Ion: 99 Resp: 25170

Ion Ratio Lower Upper

99 100

42 15.8 14.8 22.2

71 30.9 26.6 39.8



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.39 min Scan# 630

Delta R.T. -0.00 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

Tgt Ion: 136 Resp: 75607

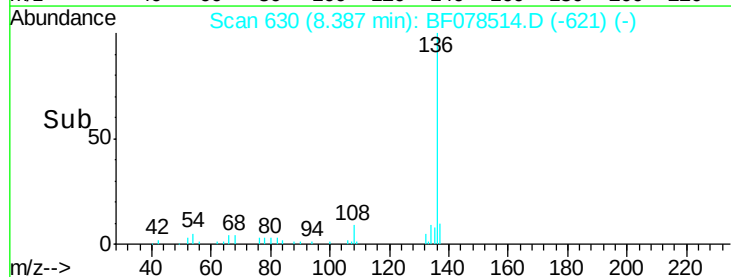
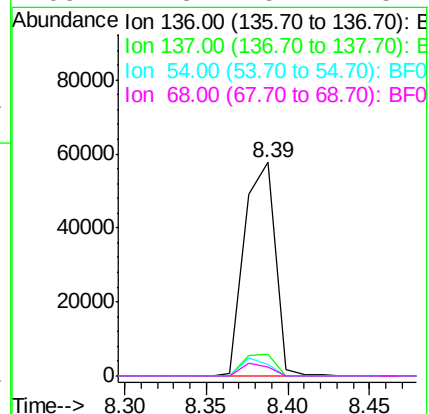
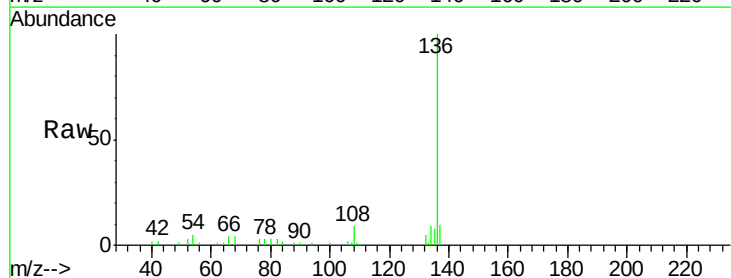
Ion Ratio Lower Upper

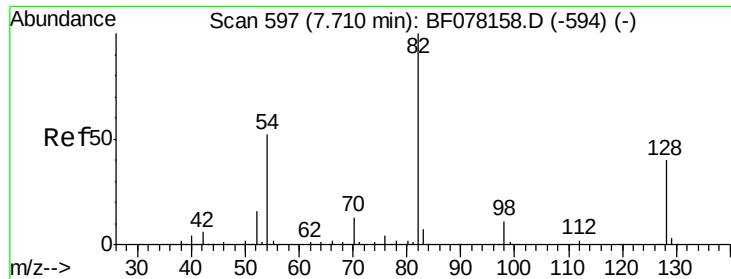
136 100

137 10.4 9.0 13.4

54 5.2 7.0 10.6#

68 4.3 5.4 8.2#

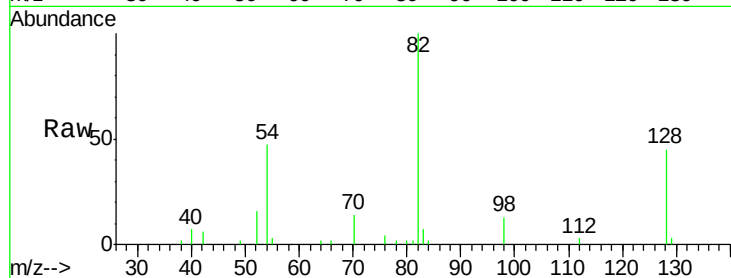




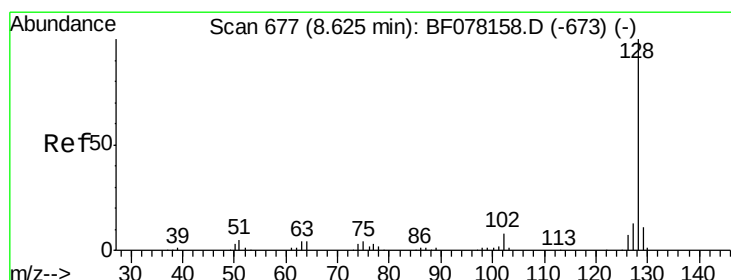
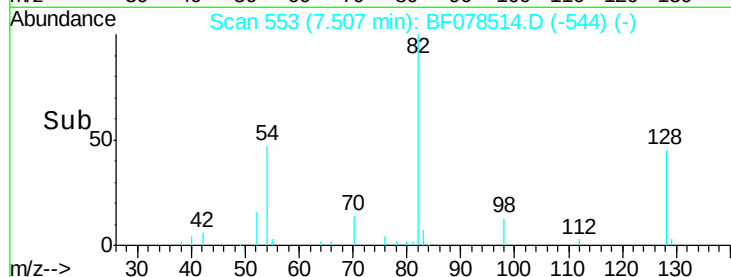
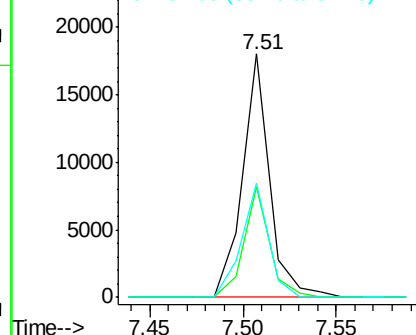
#23
 Nitrobenzene-d5
 Concen: 14.62 ng
 RT: 7.51 min Scan# 553
 Delta R.T. -0.00 min
 Lab File: BF078514.D
 Acq: 14 Apr 2015 22:23

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02C

Tgt Ion	Ratio	Lower	Upper
82	100		
128	45.2	31.8	47.8
54	46.8	41.5	62.3

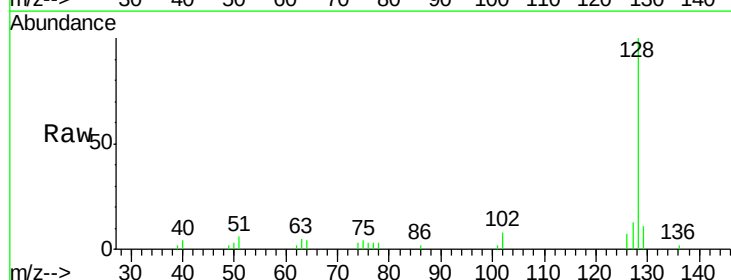


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

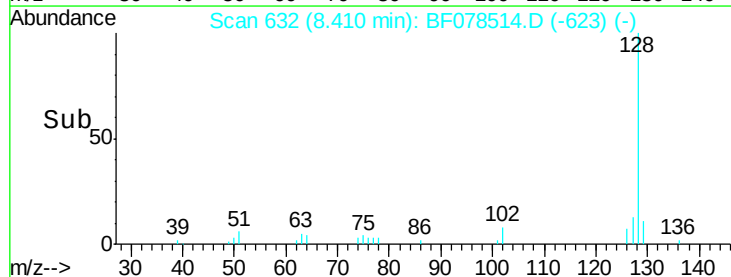
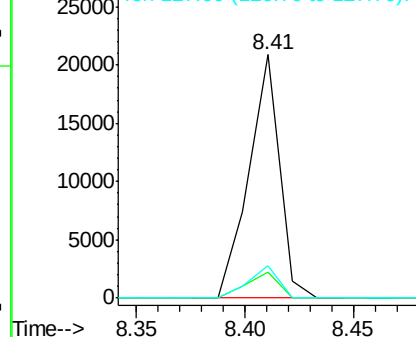


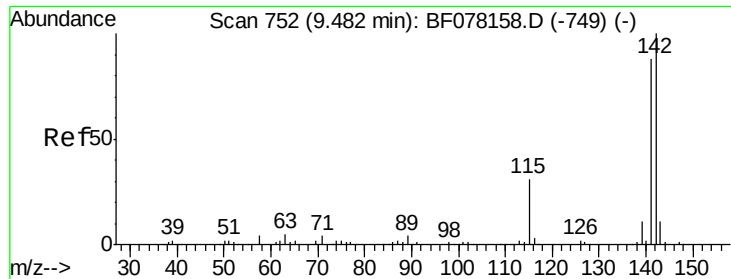
#31
 Naphthalene
 Concen: 5.17 ng
 RT: 8.41 min Scan# 632
 Delta R.T. -0.00 min
 Lab File: BF078514.D
 Acq: 14 Apr 2015 22:23

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.6	12.8
127	13.4	10.7	16.1



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

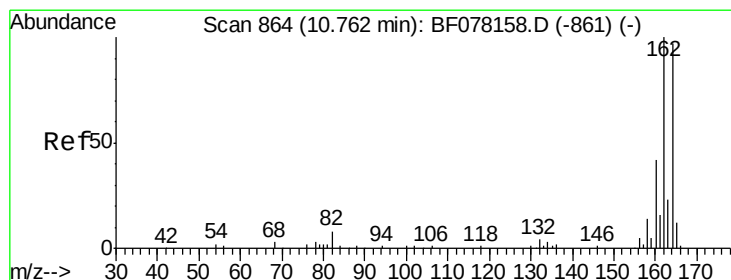
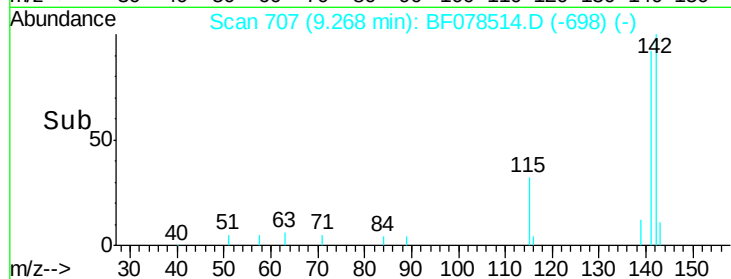
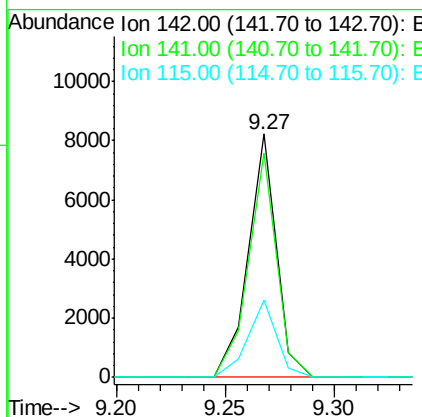
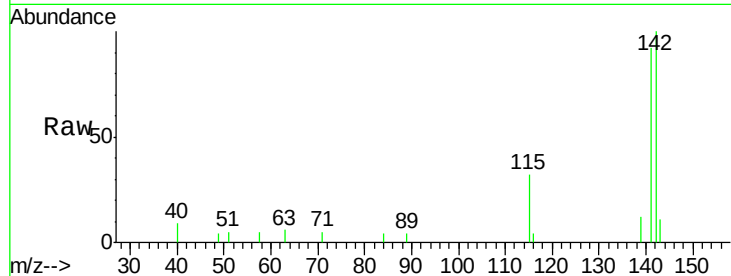




#37
 2-Methylnaphthalene
 Concen: 2.77 ng
 RT: 9.27 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: BF078514.D
 Acq: 14 Apr 2015 22:23

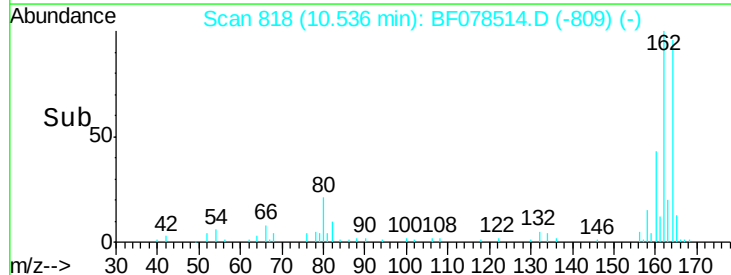
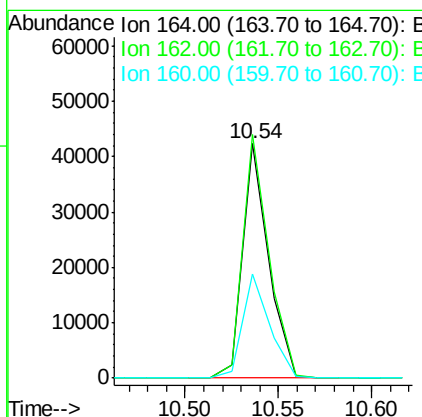
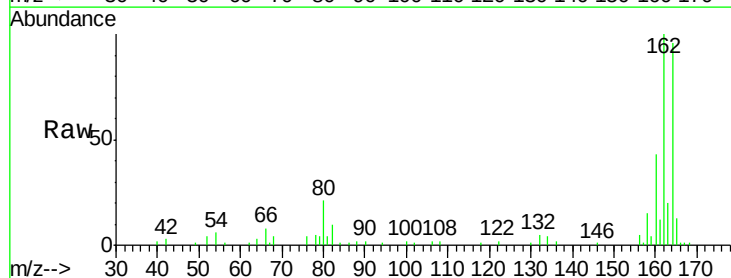
Instrument :
 BNA_F
 ClientSampleID :
 HS-SB02C

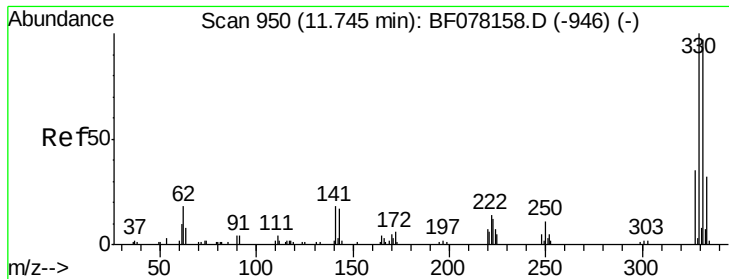
Tgt Ion:142 Resp: 7396
 Ion Ratio Lower Upper
 142 100
 141 92.4 70.3 105.5
 115 32.0 24.6 37.0



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.54 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BF078514.D
 Acq: 14 Apr 2015 22:23

Tgt Ion:164 Resp: 40869
 Ion Ratio Lower Upper
 164 100
 162 103.8 82.2 123.2
 160 44.1 34.7 52.1

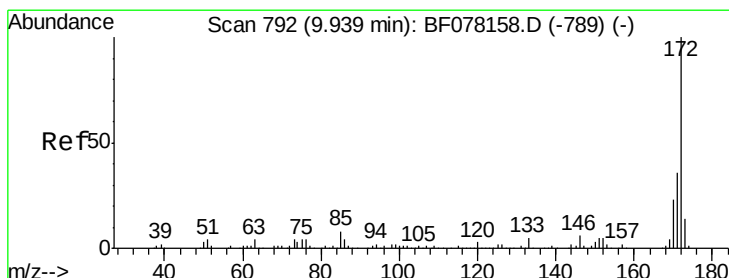
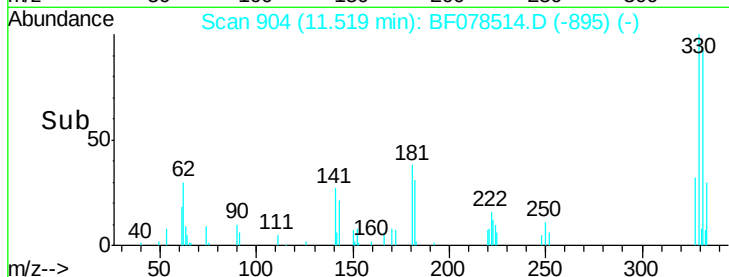
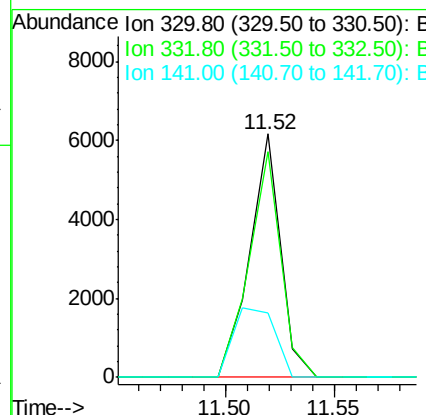
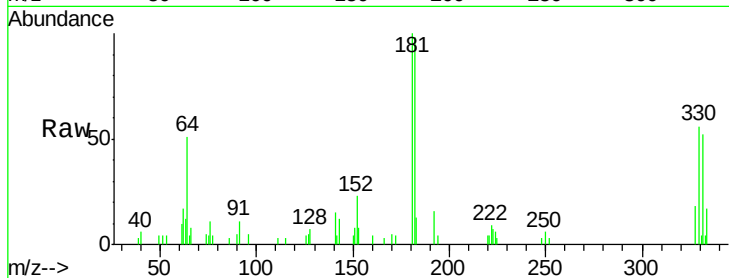




#41
 2,4,6-Tribromophenol
 Concen: 17.90 ng
 RT: 11.52 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BF078514.D
 Acq: 14 Apr 2015 22:23

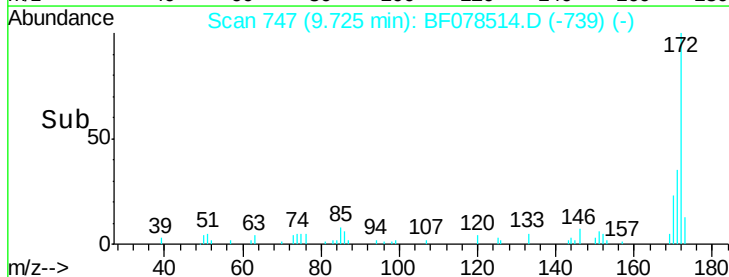
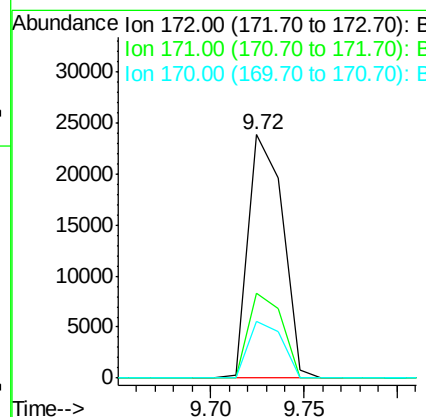
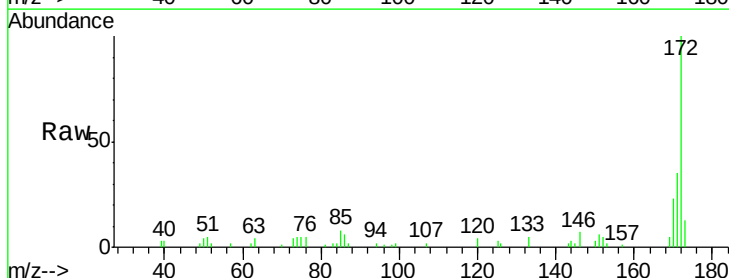
Instrument :
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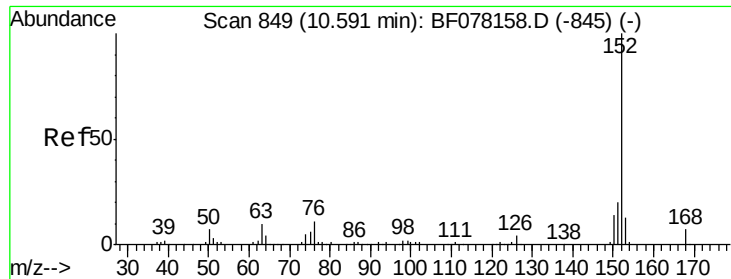
Tgt Ion: 330 Resp: 6068
 Ion Ratio Lower Upper
 330 100
 332 95.8 78.6 117.8
 141 38.3 31.2 46.8



#44
 2-Fluorobiphenyl
 Concen: 10.72 ng
 RT: 9.72 min Scan# 747
 Delta R.T. -0.01 min
 Lab File: BF078514.D
 Acq: 14 Apr 2015 22:23

Tgt Ion: 172 Resp: 30639
 Ion Ratio Lower Upper
 172 100
 171 34.6 28.6 42.8
 170 23.4 18.5 27.7





#48

Acenaphthylene

Concen: 2.20 ng

RT: 10.36 min Scan# 803

Delta R.T. -0.00 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

Instrument :

BNA_F

ClientSampleId :

HS-SB02C

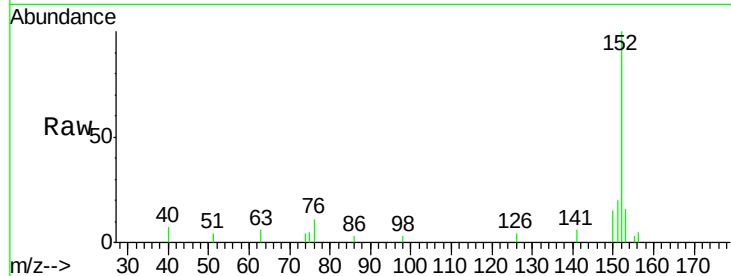
Tgt Ion:152 Resp: 9347

Ion Ratio Lower Upper

152 100

151 20.0 15.7 23.5

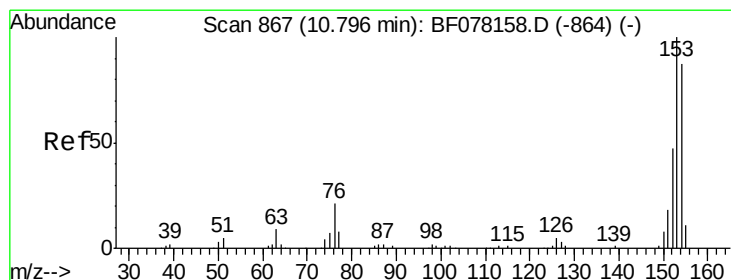
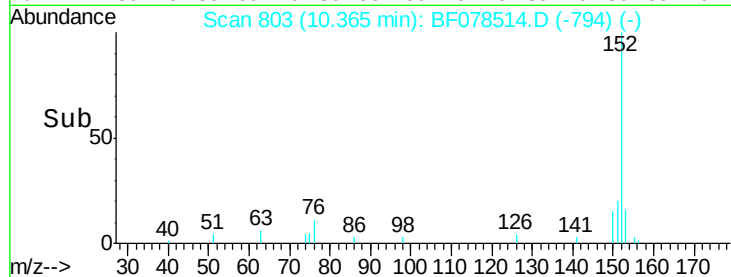
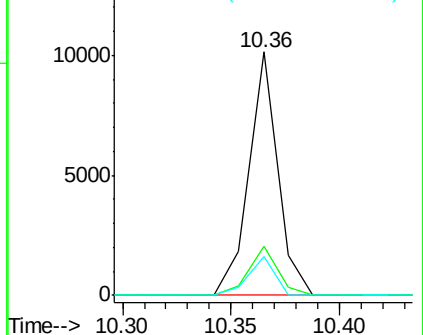
153 15.9 10.2 15.2#



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



#51

Acenaphthene

Concen: 7.69 ng

RT: 10.58 min Scan# 822

Delta R.T. -0.00 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

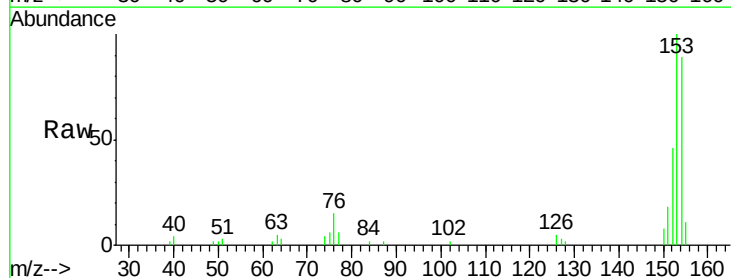
Tgt Ion:154 Resp: 18394

Ion Ratio Lower Upper

154 100

153 112.3 91.4 137.2

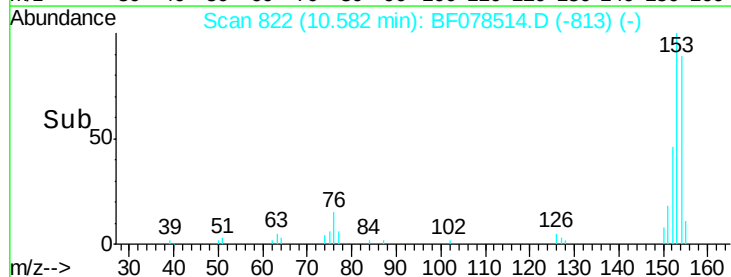
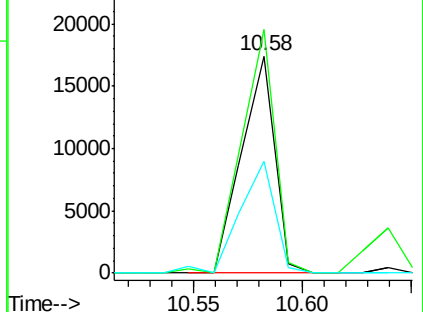
152 51.4 43.0 64.6

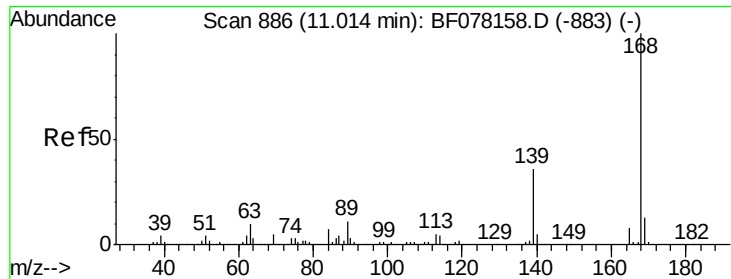


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

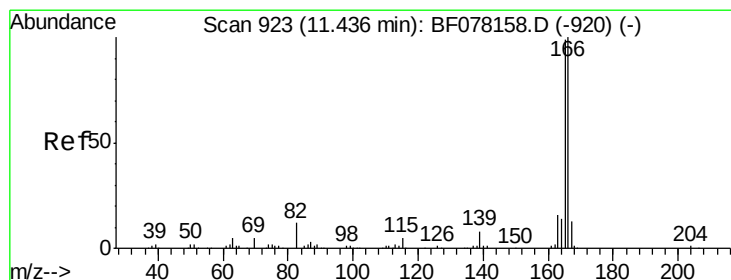
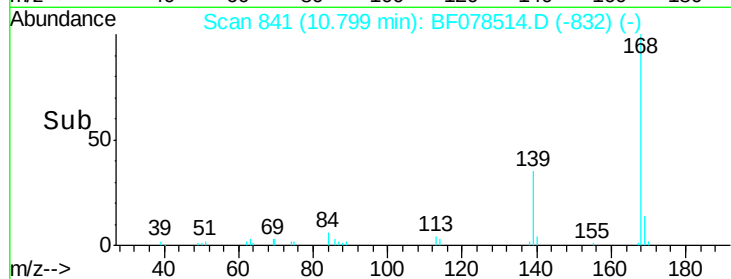
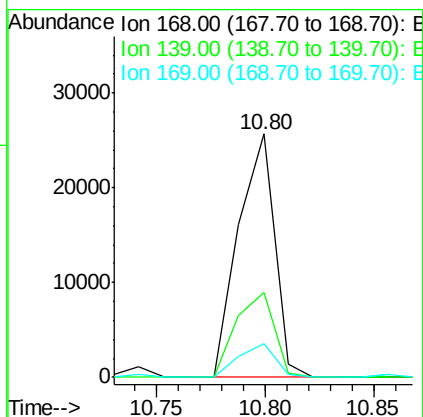
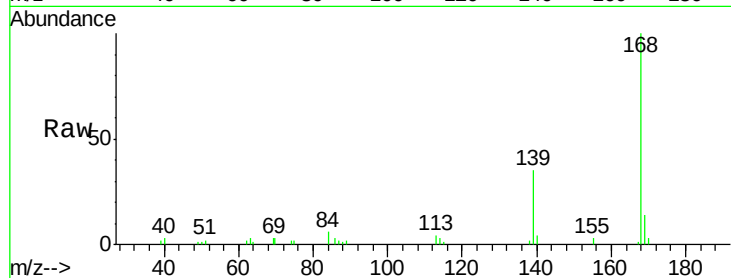




#54
Dibenzenofuran
Concen: 8.11 ng
RT: 10.80 min Scan# 841
Delta R.T. -0.00 min
Lab File: BF078514.D
Acq: 14 Apr 2015 22:23

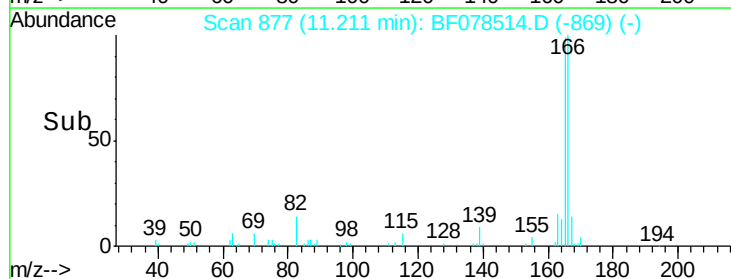
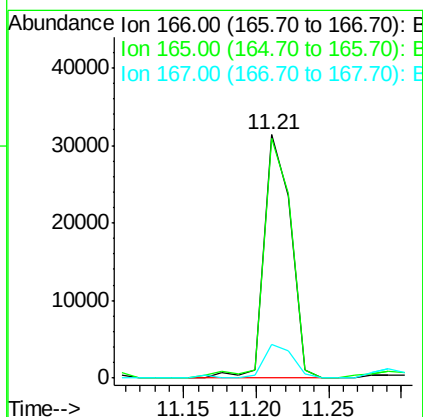
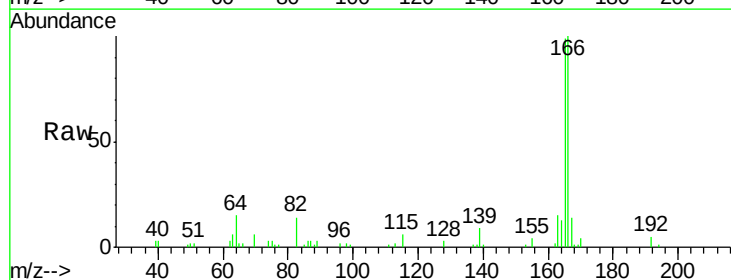
Instrument :
BNA_F
ClientSampleId :
HS-SB02C

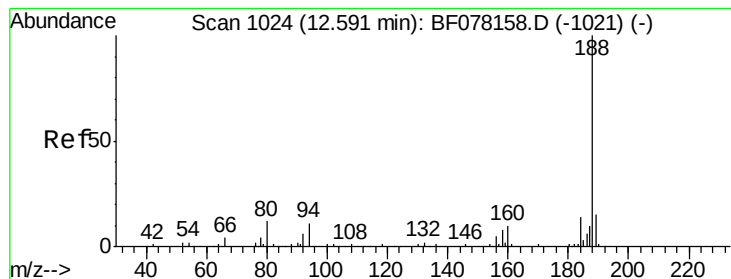
Tgt Ion:168 Resp: 29626
Ion Ratio Lower Upper
168 100
139 34.6 31.0 46.4
169 14.1 10.7 16.1



#57
Fluorene
Concen: 13.43 ng
RT: 11.21 min Scan# 877
Delta R.T. -0.01 min
Lab File: BF078514.D
Acq: 14 Apr 2015 22:23

Tgt Ion:166 Resp: 39755
Ion Ratio Lower Upper
166 100
165 98.7 78.9 118.3
167 14.0 10.7 16.1





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.36 min Scan# 978

Delta R.T. -0.00 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

Instrument :

BNA_F

ClientSampleId :

HS-SB02C

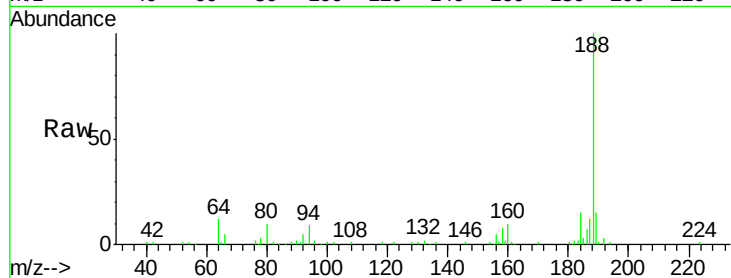
Tgt Ion:188 Resp: 84274

Ion Ratio Lower Upper

188 100

94 9.1 9.0 13.4

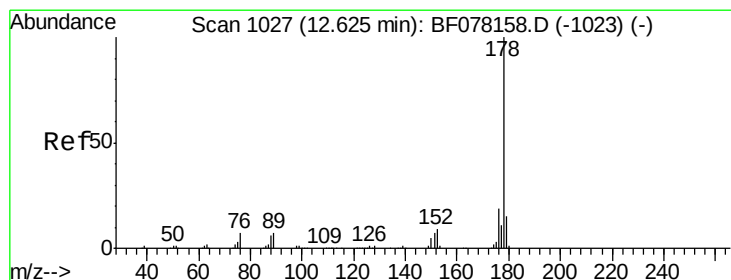
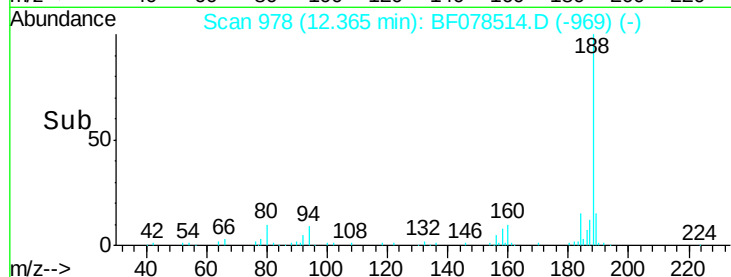
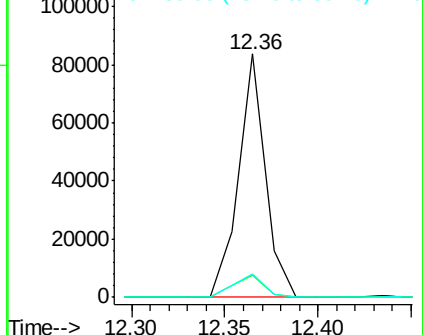
80 9.8 9.5 14.3



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: 112.70 ng

RT: 12.40 min Scan# 981

Delta R.T. 0.01 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

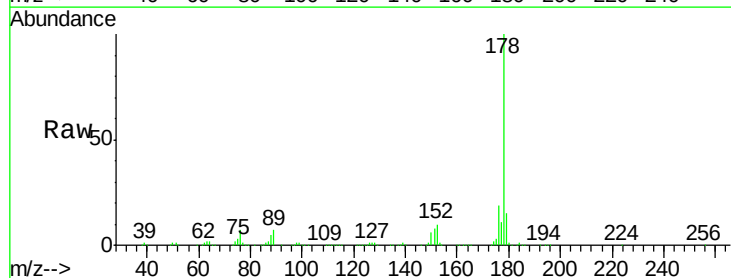
Tgt Ion:178 Resp: 549407

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.0

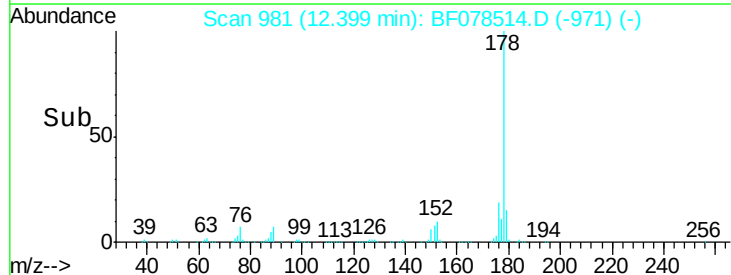
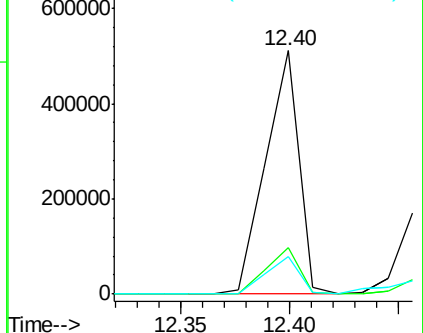
179 15.3 12.2 18.2

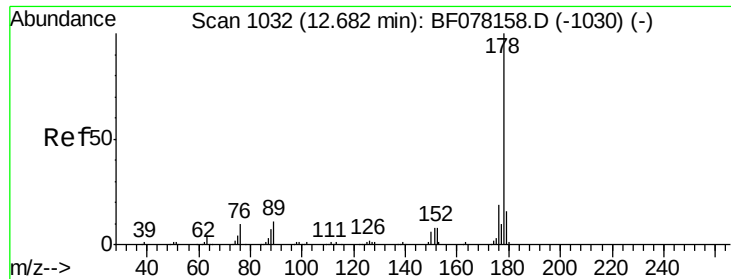


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

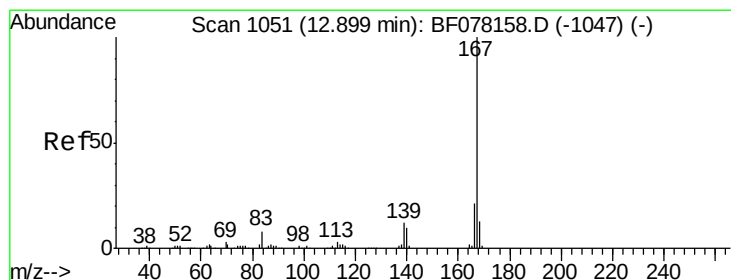
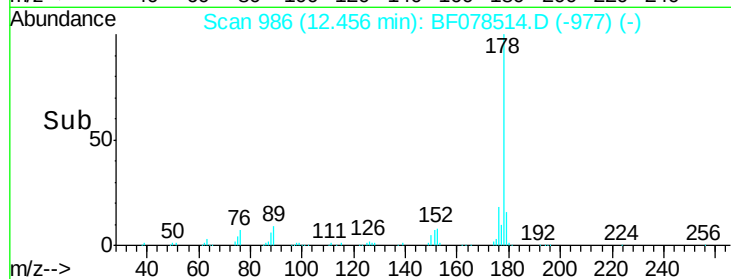
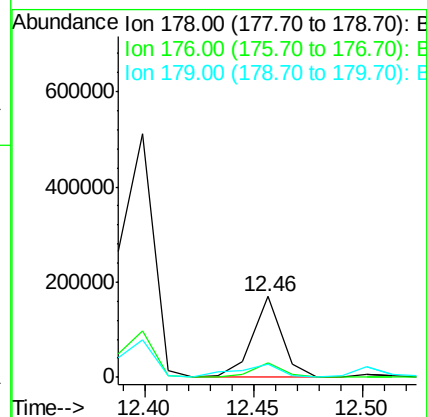
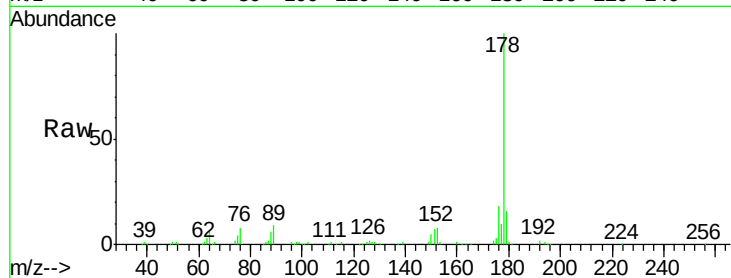




#71
 Anthracene
 Concen: 32.67 ng
 RT: 12.46 min Scan# 986
 Delta R.T. -0.00 min
 Lab File: BF078514.D
 Acq: 14 Apr 2015 22:23

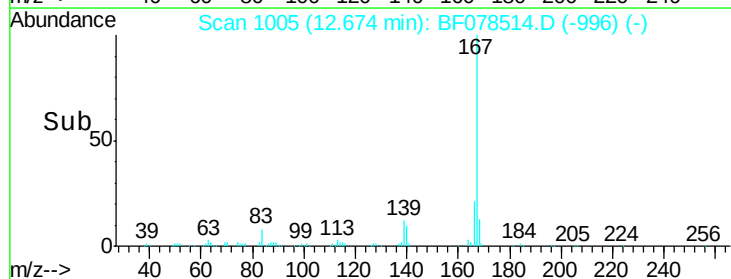
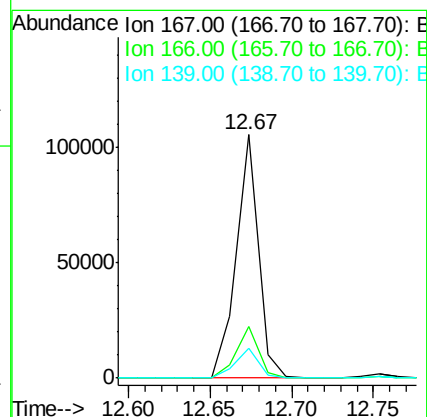
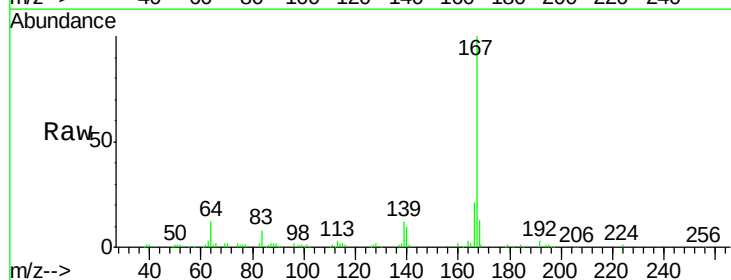
Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02C

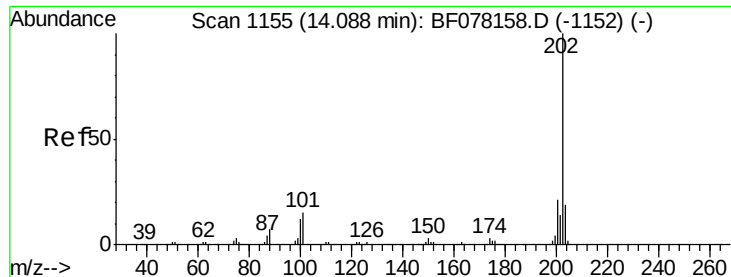
Tgt Ion:178 Resp: 156918
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.8 22.2
 179 15.8 12.4 18.6



#72
 Carbazole
 Concen: 21.91 ng
 RT: 12.67 min Scan# 1005
 Delta R.T. -0.00 min
 Lab File: BF078514.D
 Acq: 14 Apr 2015 22:23

Tgt Ion:167 Resp: 98638
 Ion Ratio Lower Upper
 167 100
 166 21.4 16.8 25.2
 139 12.4 10.0 15.0





#74

Fluoranthene

Concen: 118.66 ng

RT: 13.86 min Scan# 1109

Delta R.T. 0.01 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

Instrument :

BNA_F

ClientSampleId :

HS-SB02C

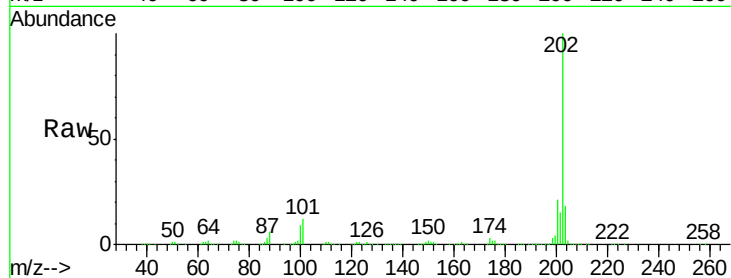
Tgt Ion:202 Resp: 610030

Ion Ratio Lower Upper

202 100

101 12.1 0.0 35.2

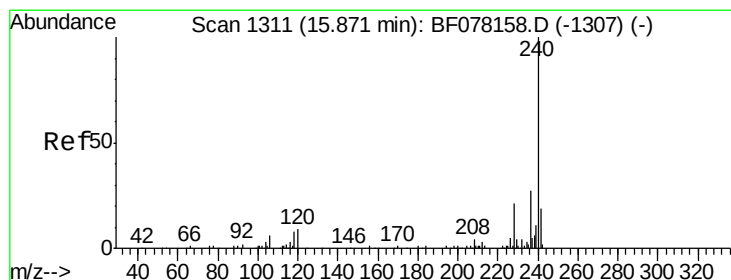
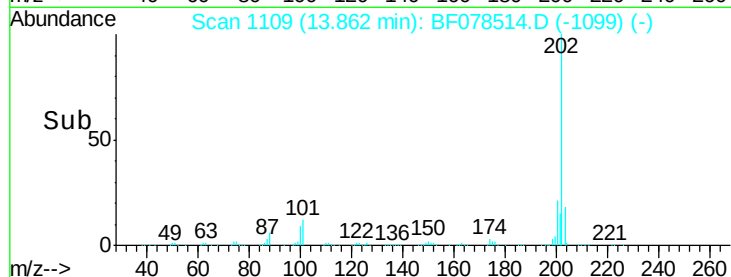
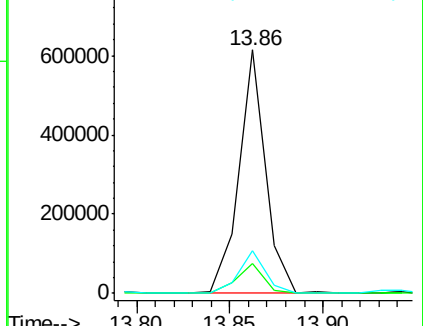
203 17.6 0.0 38.5



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: BF078514.D

Acq: 14 Apr 2015 22:23

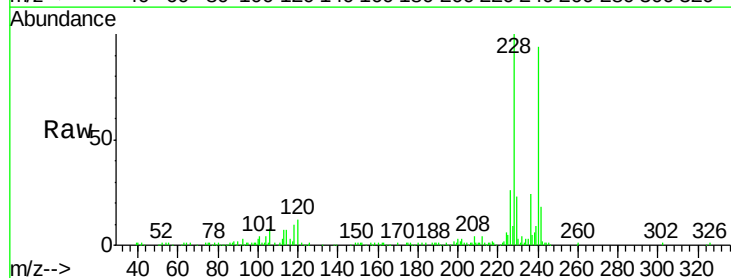
Tgt Ion:240 Resp: 97259

Ion Ratio Lower Upper

240 100

120 12.7 7.1 10.7#

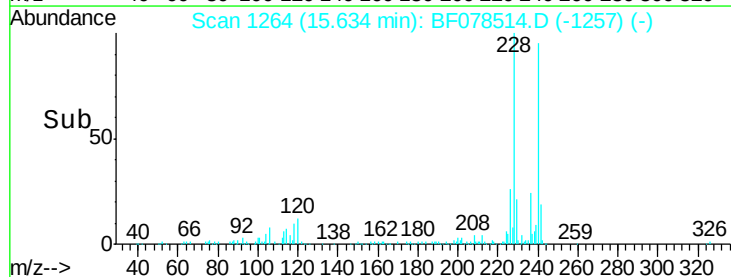
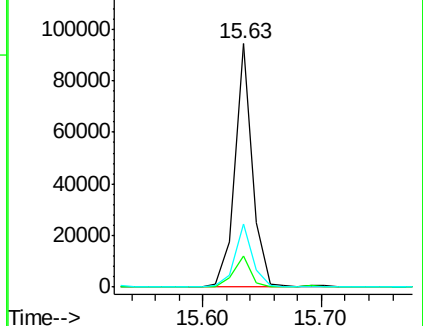
236 25.7 21.4 32.2

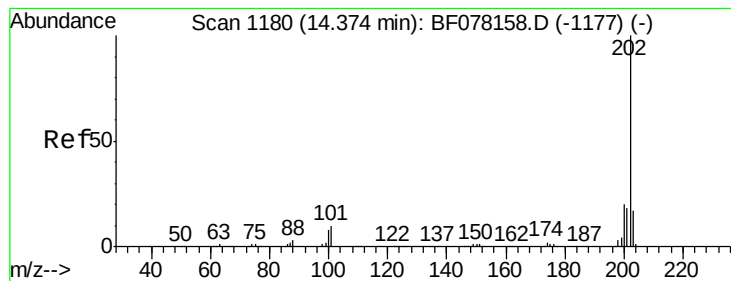


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 88.74 ng

RT: 14.14 min Scan# 1133

Delta R.T. 0.01 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

Instrument :

BNA_F

ClientSampleId :

HS-SB02C

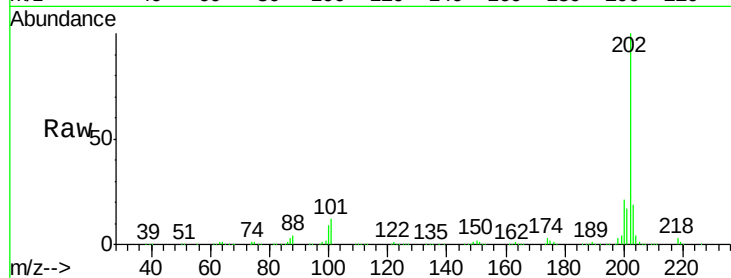
Tgt Ion:202 Resp: 541796

Ion Ratio Lower Upper

202 100

200 20.9 16.3 24.5

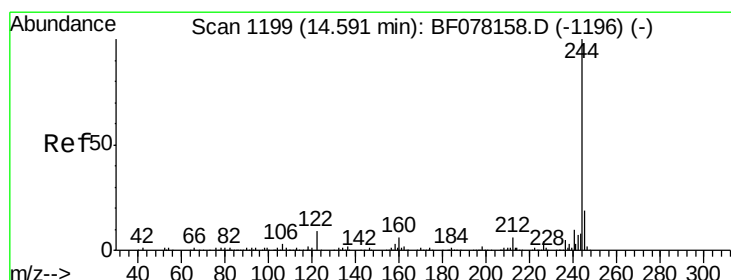
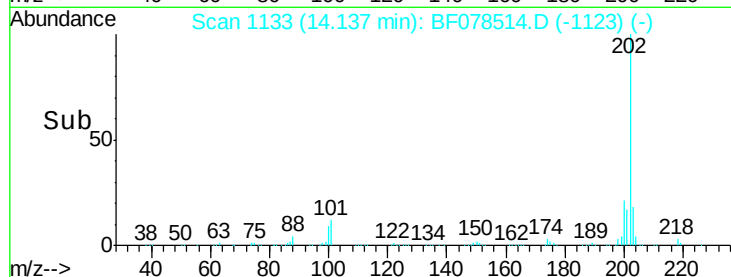
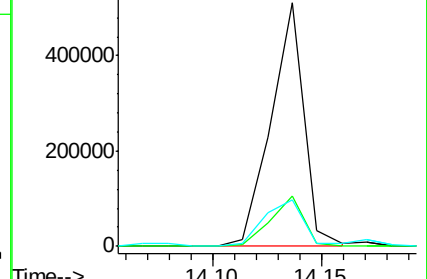
203 19.2 13.8 20.6



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: 36.30 ng

RT: 14.35 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

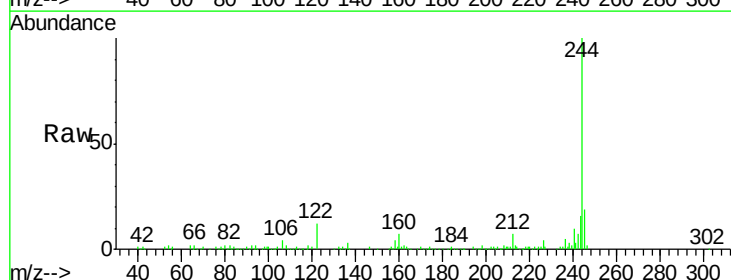
Tgt Ion:244 Resp: 156257

Ion Ratio Lower Upper

244 100

212 6.8 5.0 7.4

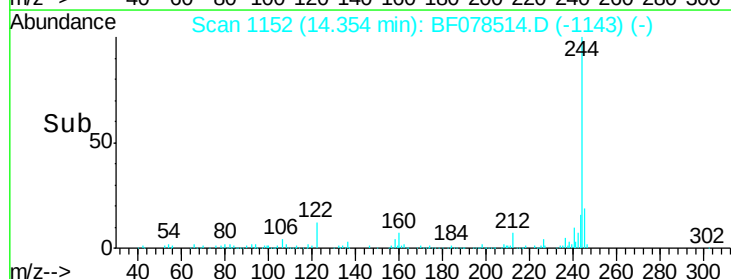
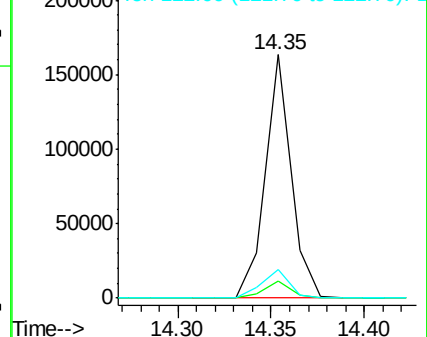
122 12.0 7.1 10.7#

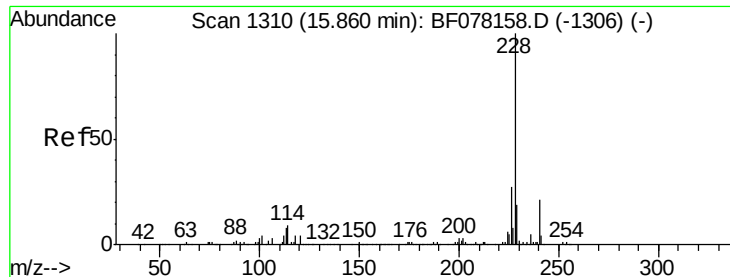


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 61.60 ng

RT: 15.62 min Scan# 1263

Delta R.T. -0.02 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

Instrument :

BNA_F

ClientSampleId :

HS-SB02C

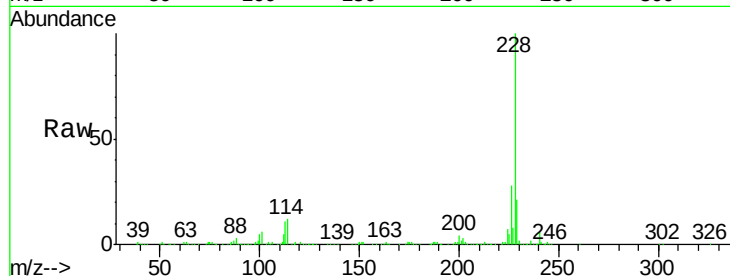
Tgt Ion:228 Resp: 356479

Ion Ratio Lower Upper

228 100

226 27.7 21.3 31.9

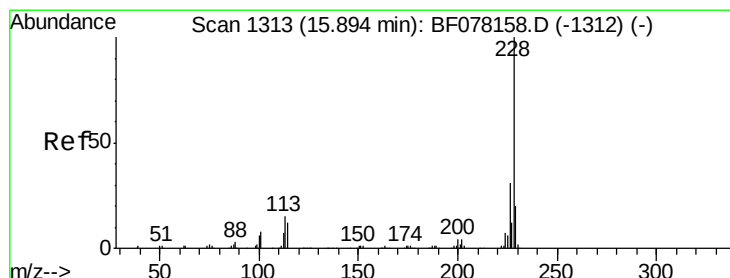
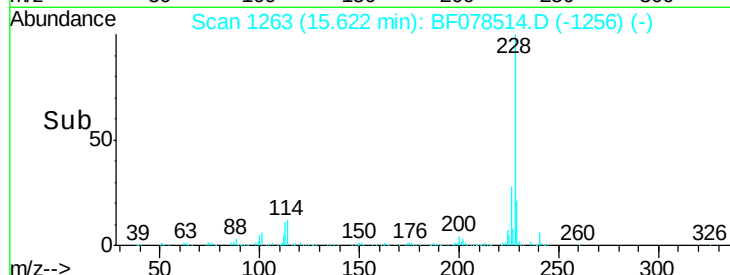
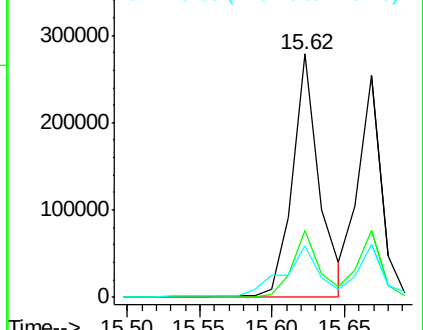
229 21.1 15.4 23.2



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: 51.53 ng

RT: 15.67 min Scan# 1267

Delta R.T. -0.02 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

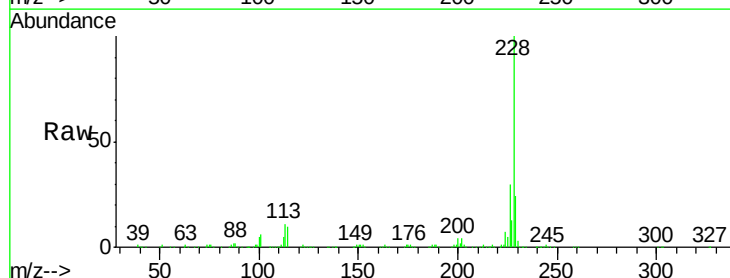
Tgt Ion:228 Resp: 280190

Ion Ratio Lower Upper

228 100

226 30.4 24.2 36.4

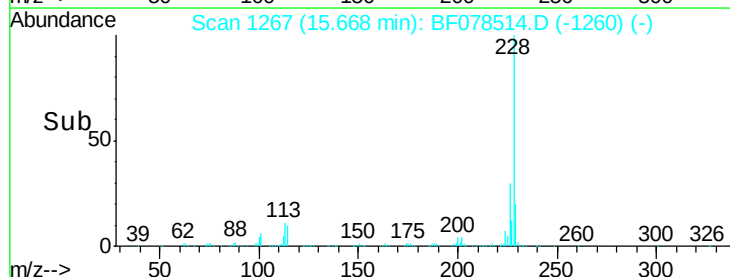
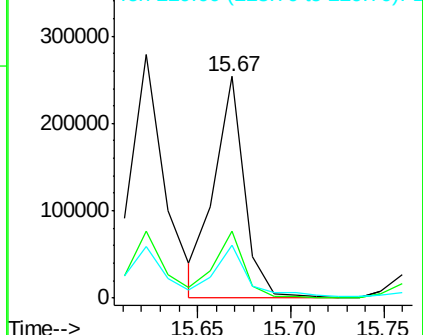
229 23.7 15.8 23.8

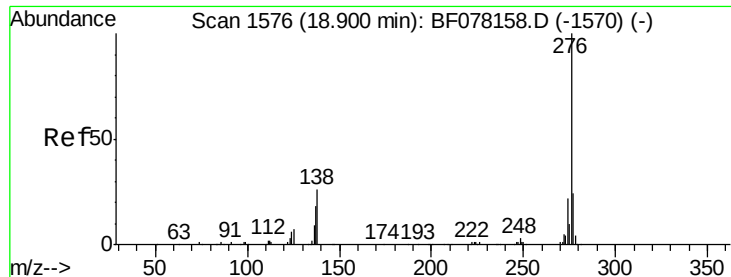


Abundance Ion 228.00 (227.70 to 228.70): E

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: 21.23 ng m

RT: 18.66 min Scan# 1529

Delta R.T. -0.15 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

Instrument :

BNA_F

ClientSampleId :

HS-SB02C

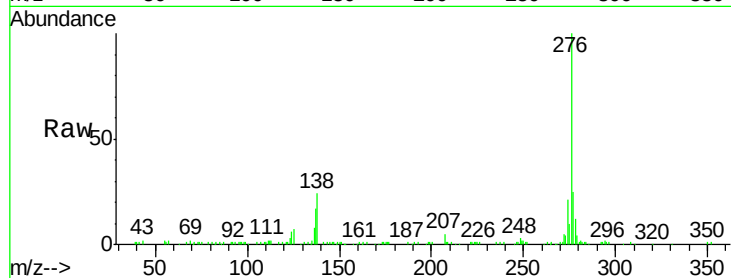
Tgt Ion:276 Resp: 130971

Ion Ratio Lower Upper

276 100

138 5.4 16.9 25.3#

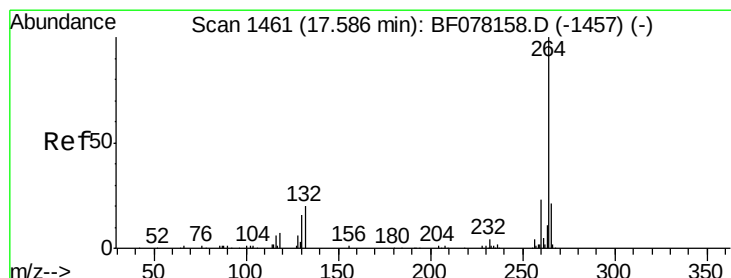
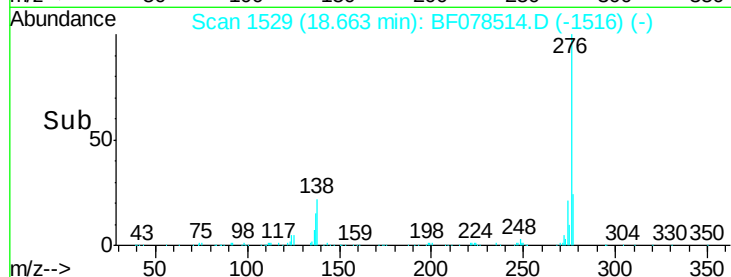
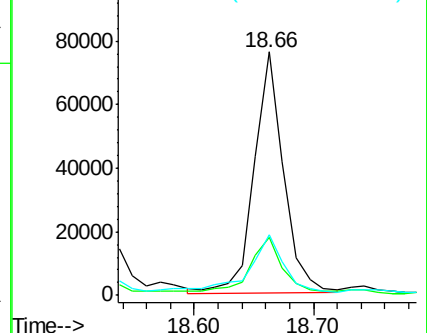
277 5.4 15.8 23.6#



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: 17.41 min Scan# 1419

Delta R.T. -0.08 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

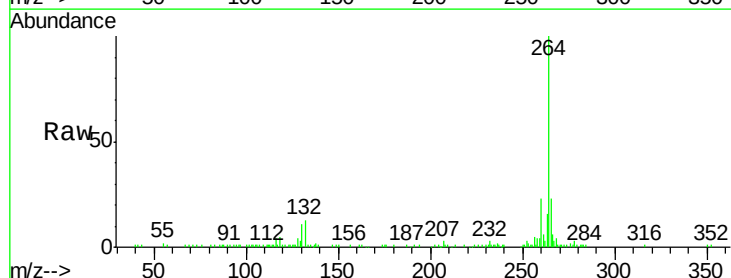
Tgt Ion:264 Resp: 105034

Ion Ratio Lower Upper

264 100

260 22.9 18.6 27.8

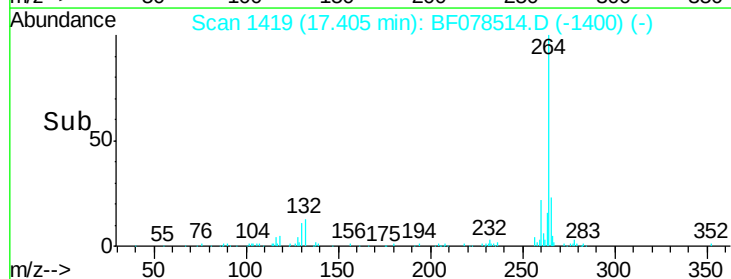
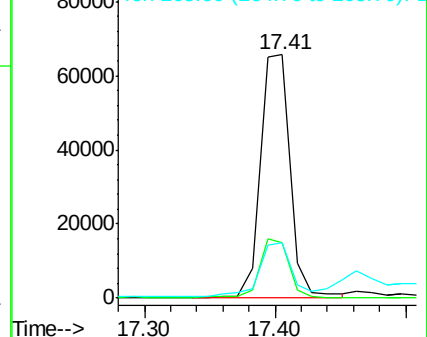
265 22.8 17.0 25.6

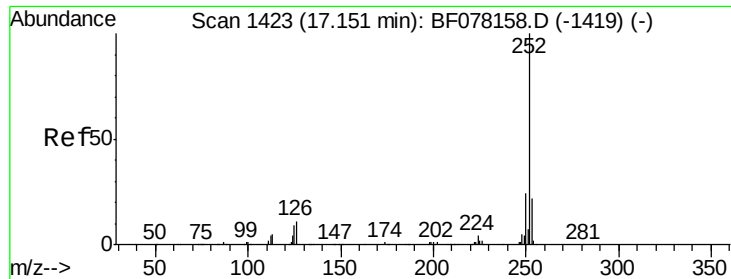


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

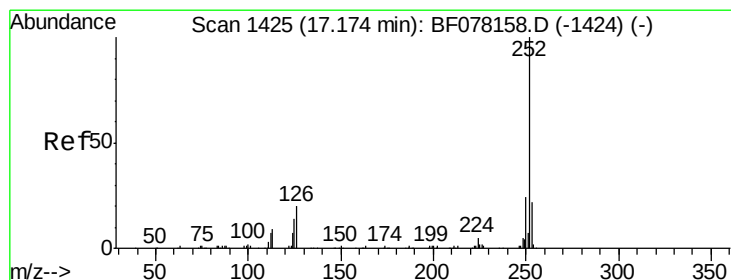
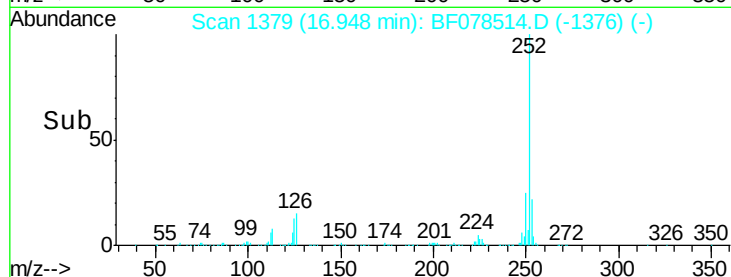
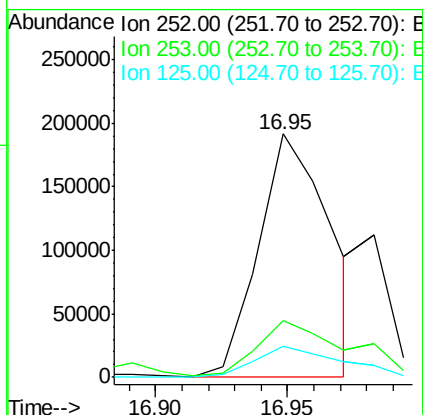
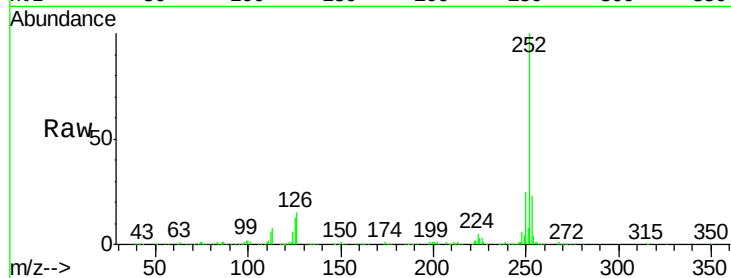




#87
Benzo(b)fluoranthene
Concen: 56.07 ng m
RT: 16.95 min Scan# 1379
Delta R.T. -0.07 min
Lab File: BF078514.D
Acq: 14 Apr 2015 22:23

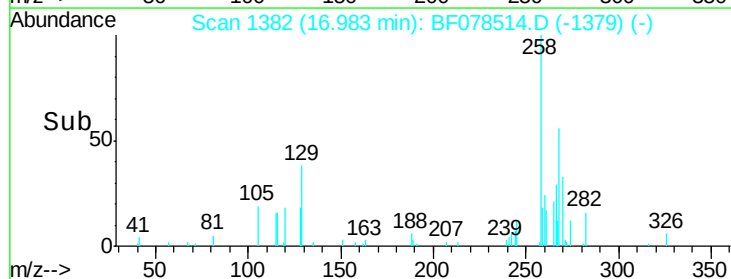
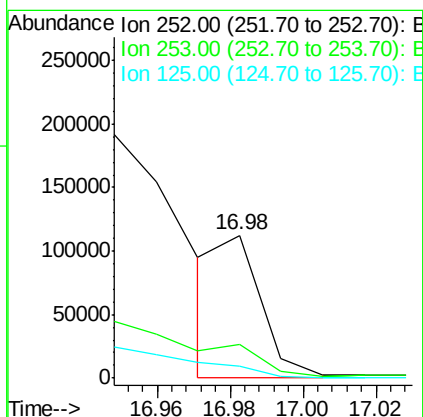
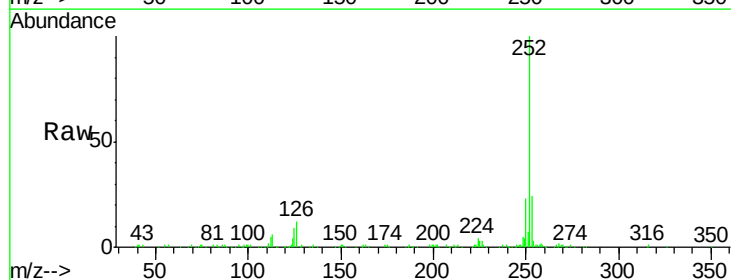
Instrument :
BNA_F
ClientSampleId :
HS-SB02C

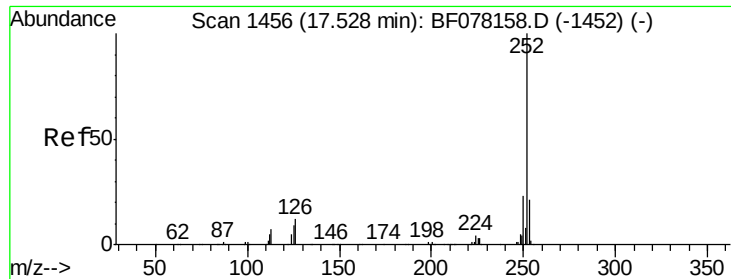
Tgt Ion:252 Resp: 363961
Ion Ratio Lower Upper
252 100
253 23.1 17.2 25.8
125 12.7 7.0 10.4#



#88
Benzo(k)fluoranthene
Concen: 15.46 ng m
RT: 16.98 min Scan# 1382
Delta R.T. -0.07 min
Lab File: BF078514.D
Acq: 14 Apr 2015 22:23

Tgt Ion:252 Resp: 89213
Ion Ratio Lower Upper
252 100
253 23.9 17.5 26.3
125 8.7 11.6 17.4#





#89

Benzo(a)pyrene

Concen: 44.65 ng

RT: 17.34 min Scan# 1413

Delta R.T. -0.08 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

Instrument :

BNA_F

ClientSampleId :

HS-SB02C

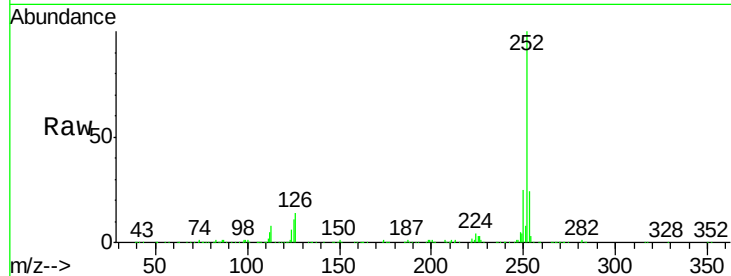
Tgt Ion:252 Resp: 252949

Ion Ratio Lower Upper

252 100

253 23.7 16.8 25.2

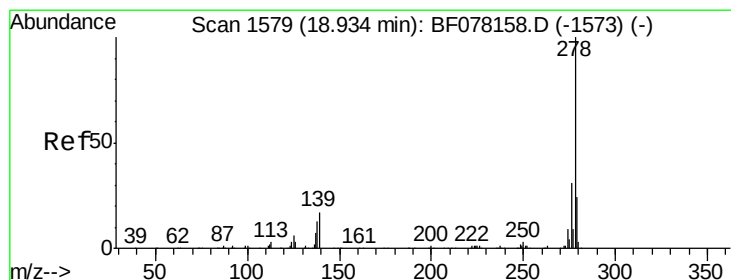
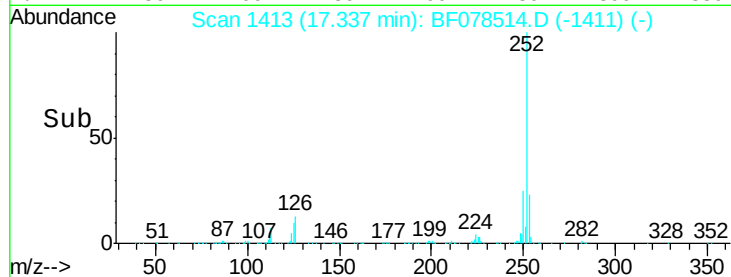
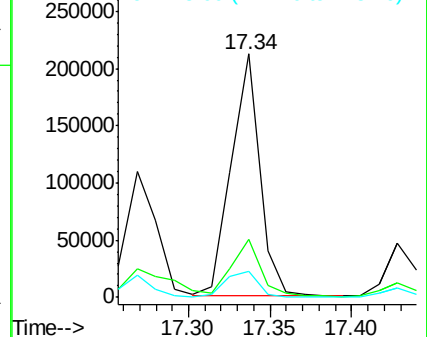
125 10.8 7.4 11.0



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: 6.86 ng m

RT: 18.69 min Scan# 1531

Delta R.T. -0.15 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

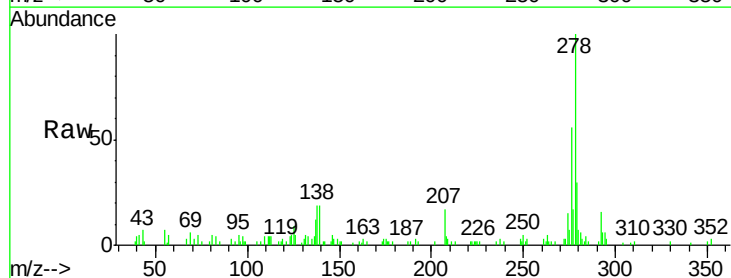
Tgt Ion:278 Resp: 38938

Ion Ratio Lower Upper

278 100

139 18.8 13.6 20.4

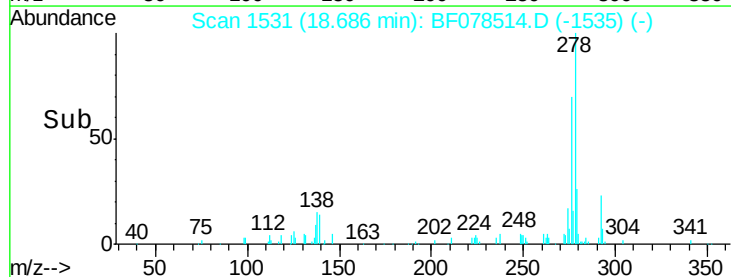
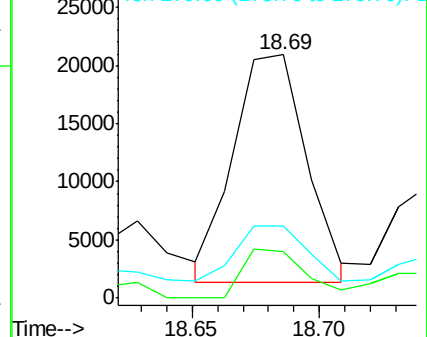
279 29.8 19.0 28.6#

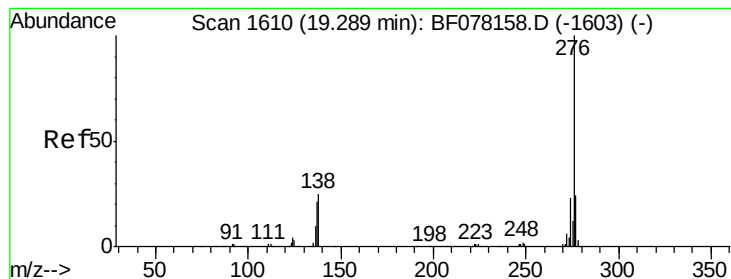


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 19.40 ng m

RT: 19.01 min Scan# 1559

Delta R.T. -0.15 min

Lab File: BF078514.D

Acq: 14 Apr 2015 22:23

Instrument :

BNA_F

ClientSampleId :

HS-SB02C

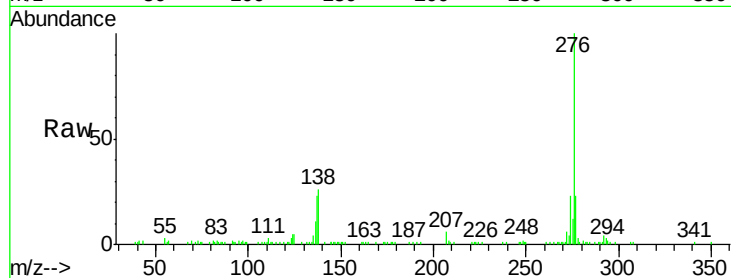
Tgt Ion: 276 Resp: 110327

Ion Ratio Lower Upper

276 100

277 23.5 19.0 28.4

138 26.4 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

