

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011316\
 Data File : BF084477.D
 Acq On : 14 Jan 2016 8:44
 Operator : SJ/UM
 Sample : H1115-04
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WHRB3A

Quant Time: Jan 14 16:55:12 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 14:15:52 2016
 Response via : Initial Calibration

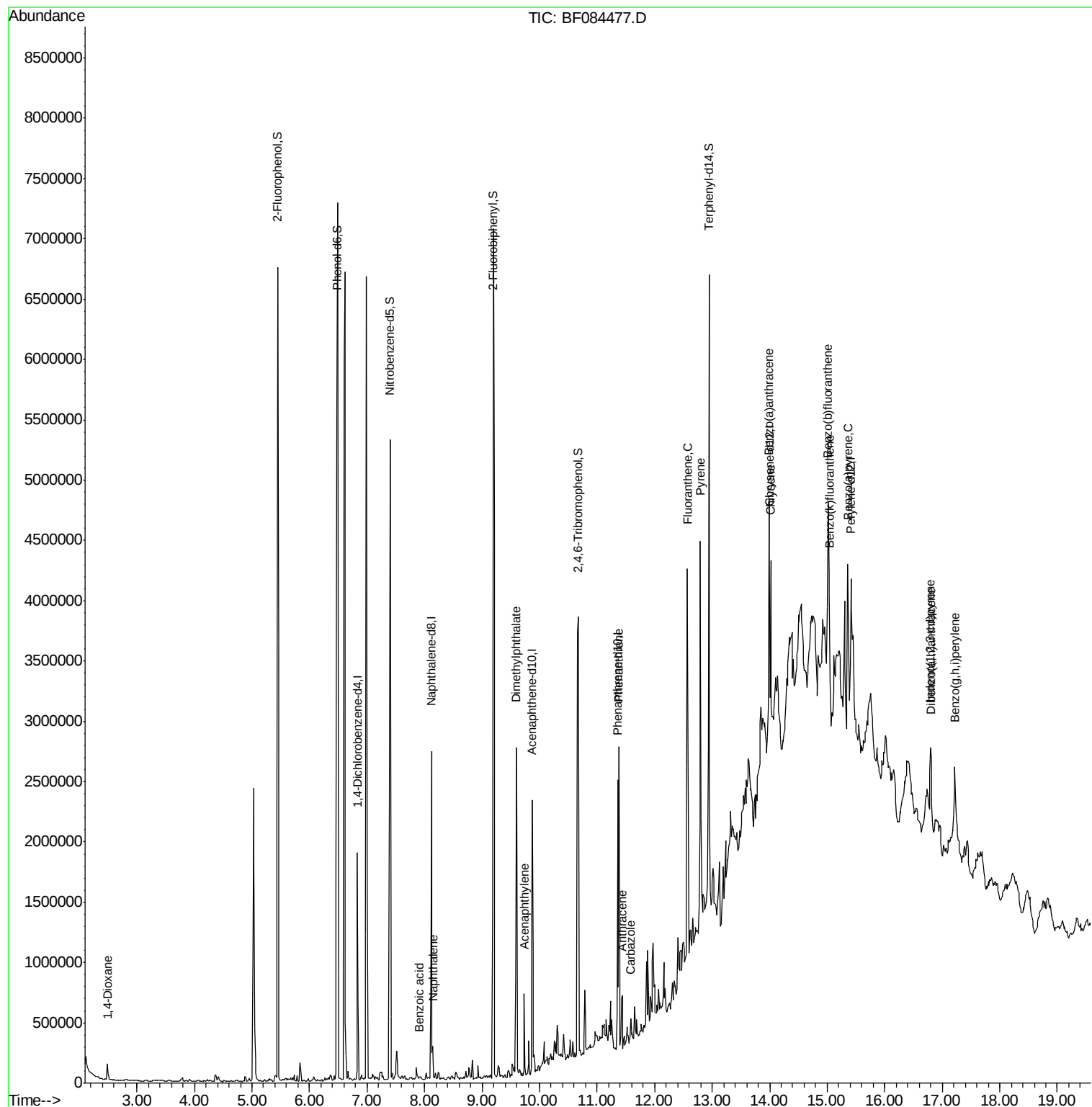
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	281310	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	1189915	20.00	ng	0.00
38) Acenaphthene-d10	9.87	164	487743	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	793424	20.00	ng	0.00
75) Chrysene-d12	14.00	240	466113	20.00	ng	0.00
86) Perylene-d12	15.41	264	467833	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	2510955	144.37	ng	0.01
7) Phenol-d6	6.49	99	3389938	155.20	ng	0.01
23) Nitrobenzene-d5	7.40	82	1907558	89.22	ng	0.00
41) 2,4,6-Tribromophenol	10.67	330	713410	144.88	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	2980781	109.32	ng	0.00
78) Terphenyl-d14	12.95	244	1651403	79.08	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	81034	9.84	ng	# 79
31) Naphthalene	8.14	128	135048	2.50	ng	98
32) Benzoic acid	7.92	122	3325	6.47	ng	# 35
48) Acenaphthylene	9.73	152	256313	5.70	ng	98
49) Dimethylphthalate	9.60	163	1085933	31.14	ng	# 91
70) Phenanthrene	11.38	178	981434	23.65	ng	99
71) Anthracene	11.44	178	282876	6.95	ng	99
72) Carbazole	11.59	167	82040	2.06	ng	100
74) Fluoranthene	12.57	202	1540533	35.53	ng	96
77) Pyrene	12.80	202	1399646	38.27	ng	99
80) Benzo(a)anthracene	13.99	228	776615m	28.38	ng	
82) Chrysene	14.02	228	586034	22.28	ng	98
85) Indeno(1,2,3-cd)pyrene	16.80	276	459373	22.03	ng	99
87) Benzo(b)fluoranthene	15.01	252	936897m	30.61	ng	
88) Benzo(k)fluoranthene	15.04	252	383231m	15.31	ng	
89) Benzo(a)pyrene	15.36	252	747739	28.81	ng	# 87
90) Dibenzo(a,h)anthracene	16.81	278	107457	4.81	ng	# 73
91) Benzo(g,h,i)perylene	17.22	276	419408	18.13	ng	96

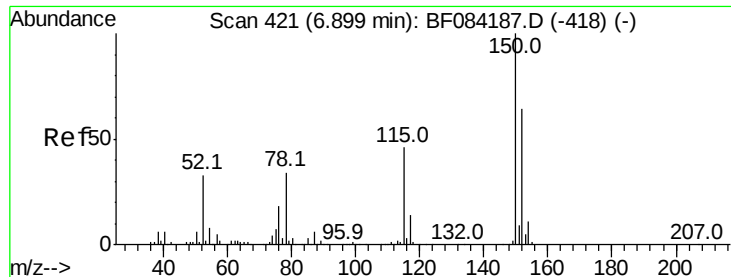
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 14 16:55:12 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 14 14:15:52 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 415

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Instrument :

BNA_F

ClientSampleId :

WHRB3A

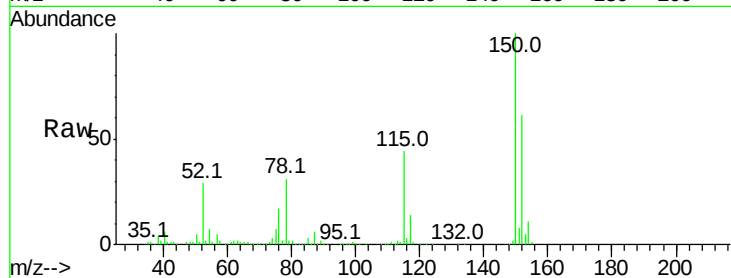
Tot Ion:152 Resp: 281310

Ion Ratio Lower Upper

152 100

150 163.6 123.0 184.4

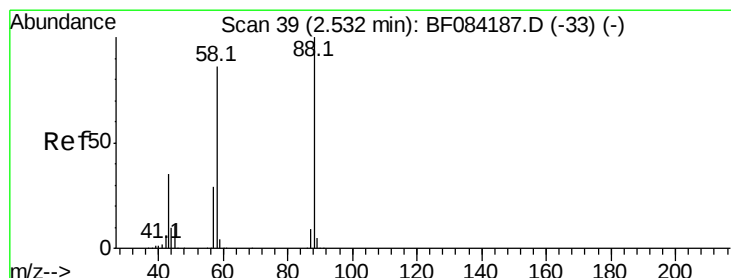
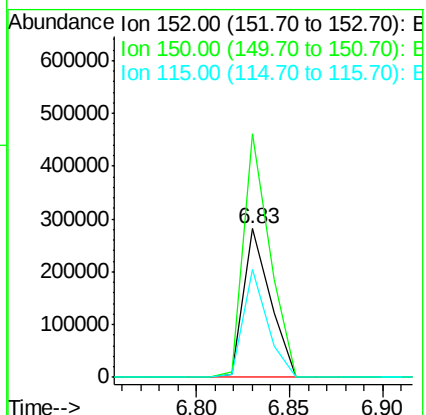
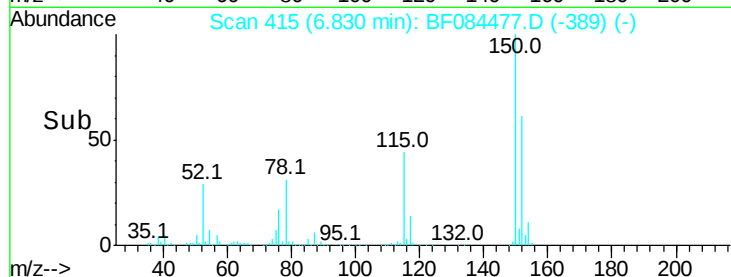
115 72.5 51.4 77.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 9.84 ng

RT: 2.49 min Scan# 35

Delta R.T. 0.09 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

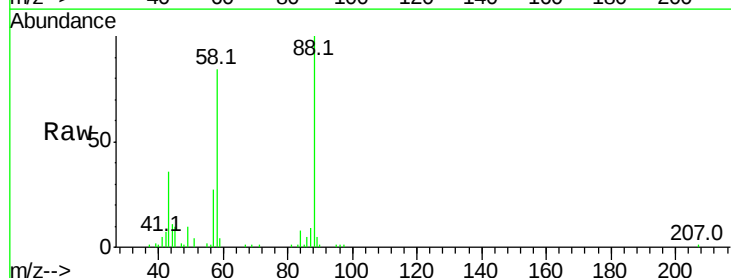
Tgt Ion: 88 Resp: 81034

Ion Ratio Lower Upper

88 100

58 81.3 51.2 76.8#

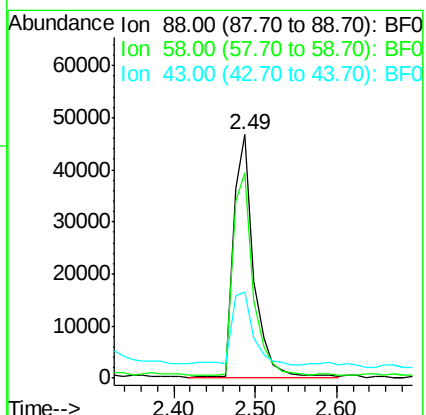
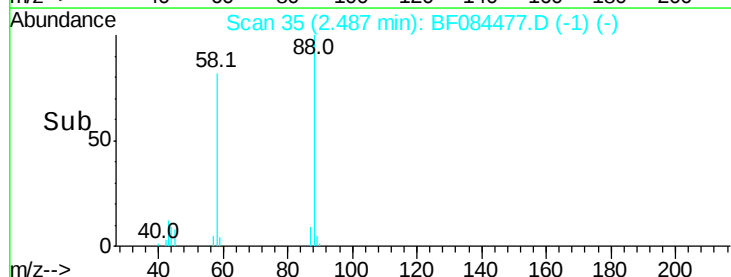
43 32.9 19.5 29.3#

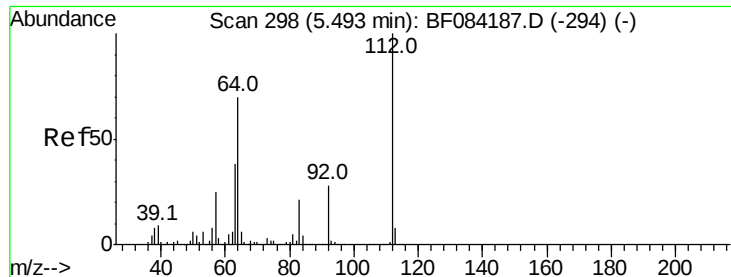


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 144.37 ng

RT: 5.45 min Scan# 294

Delta R.T. 0.01 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Instrument :

BNA_F

ClientSampleId :

WHRB3A

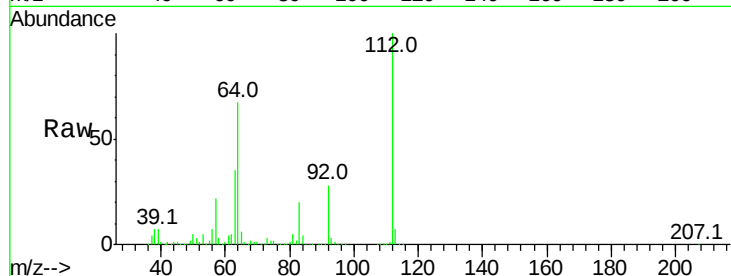
Tot Ion:112 Resp: 2510955

Ion Ratio Lower Upper

112 100

64 67.1 36.6 55.0#

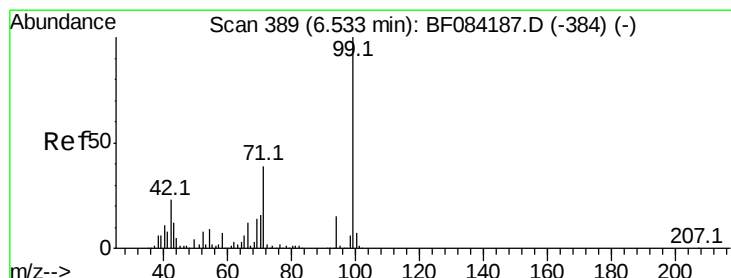
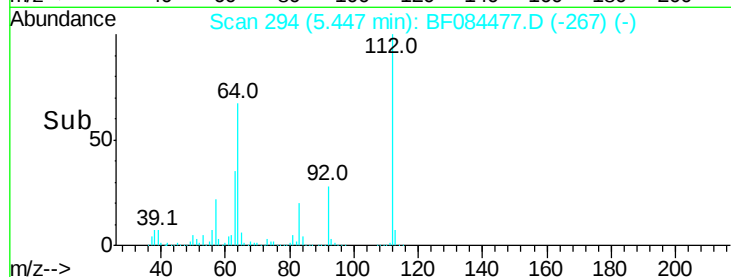
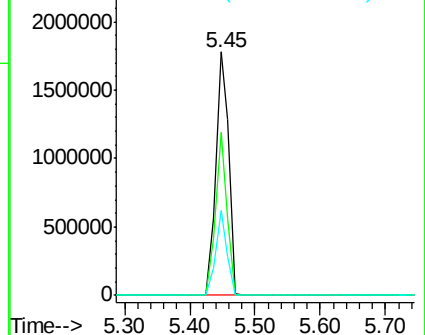
63 34.9 19.4 29.0#



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 155.20 ng

RT: 6.49 min Scan# 385

Delta R.T. 0.01 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

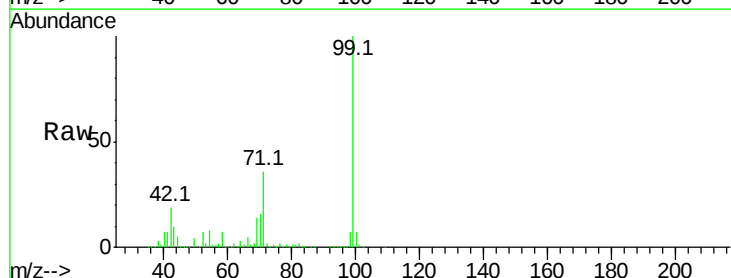
Tgt Ion: 99 Resp: 3389938

Ion Ratio Lower Upper

99 100

42 18.8 12.8 19.2

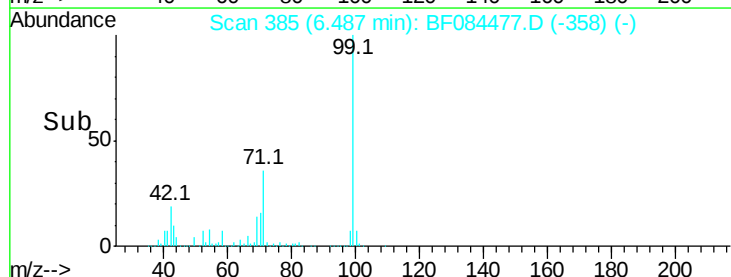
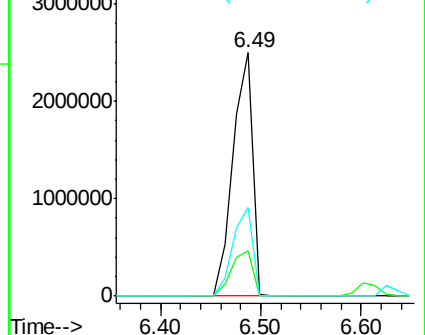
71 36.4 30.9 46.3

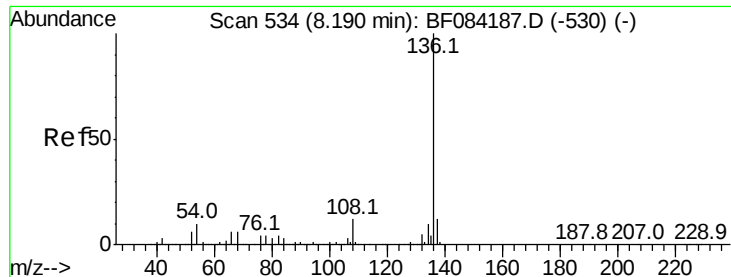


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 528

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Instrument :

BNA_F

ClientSampleId :

WHRB3A

Tot Ion:136 Resp: 1189915

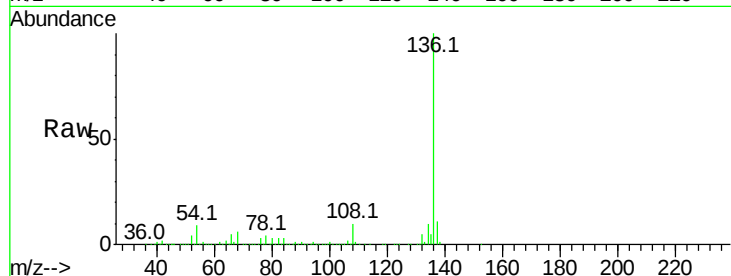
Ion Ratio Lower Upper

136 100

137 11.5 8.7 13.1

54 8.5 5.8 8.8

68 5.6 4.2 6.2

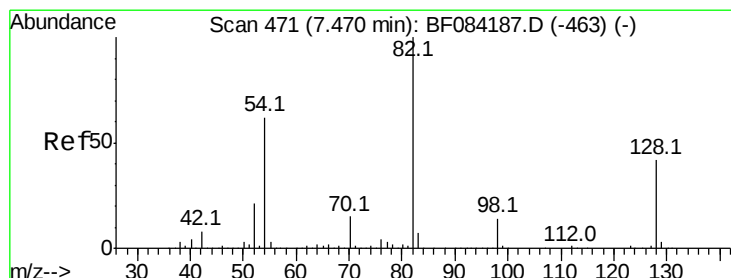
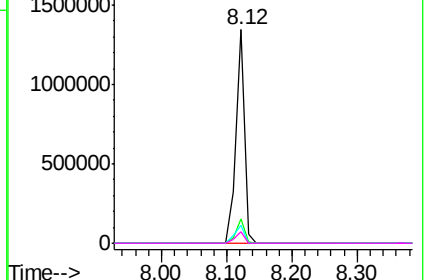
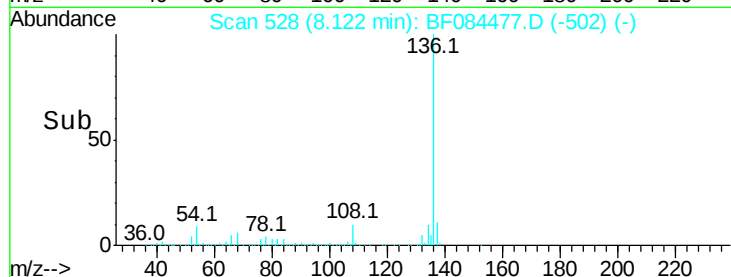


Abundance Ion 136.00 (135.70 to 136.70): E

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: 89.22 ng

RT: 7.40 min Scan# 465

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

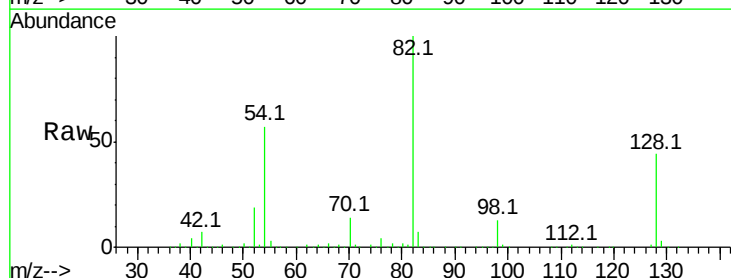
Tgt Ion: 82 Resp: 1907558

Ion Ratio Lower Upper

82 100

128 43.8 34.6 51.8

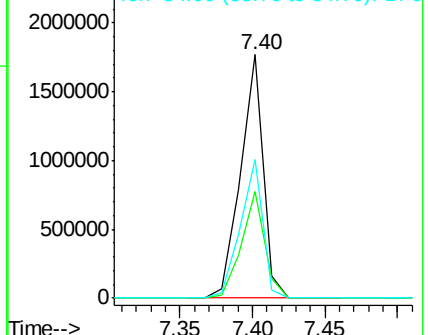
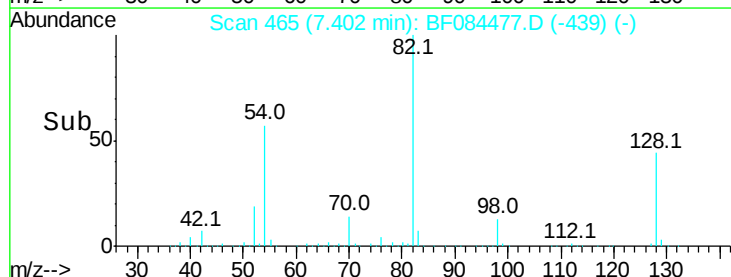
54 57.1 38.4 57.6

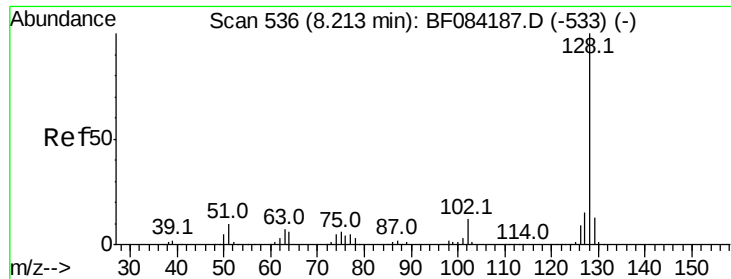


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

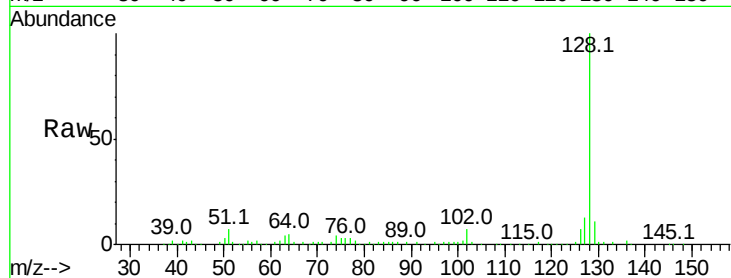




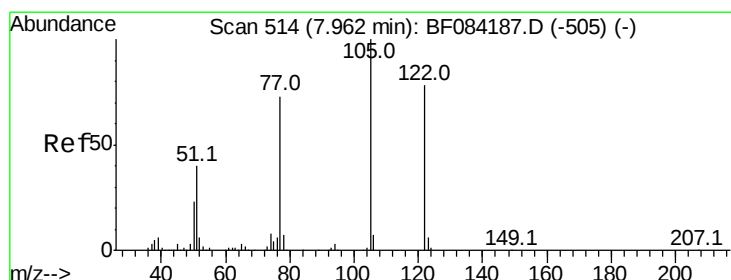
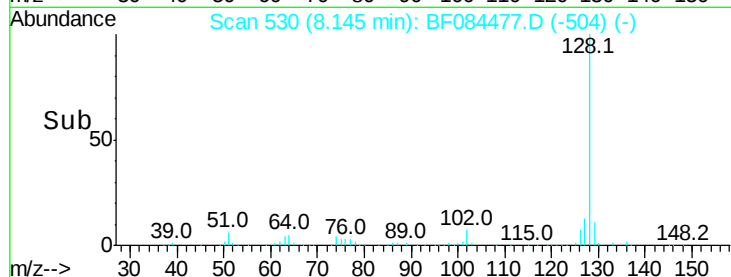
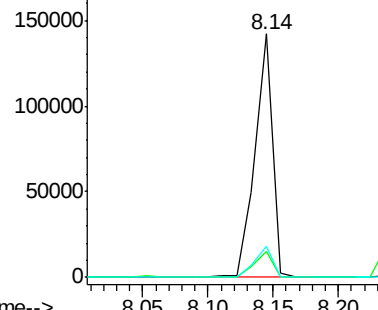
#31
Naphthalene
Concen: 2.50 ng
RT: 8.14 min Scan# 530
Delta R.T. 0.00 min
Lab File: BF084477.D
Acq: 14 Jan 2016 8:44

Instrument :
BNA_F
ClientSampleId :
WHRB3A

Tot Ion:128 Resp: 135048
Ion Ratio Lower Upper
128 100
129 10.7 9.1 13.7
127 13.0 11.1 16.7

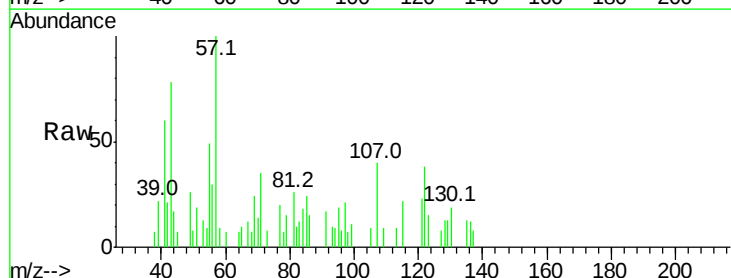


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

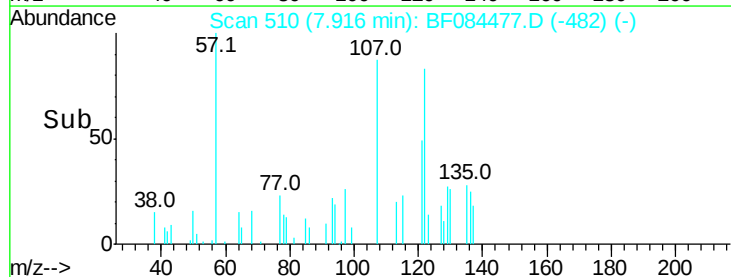
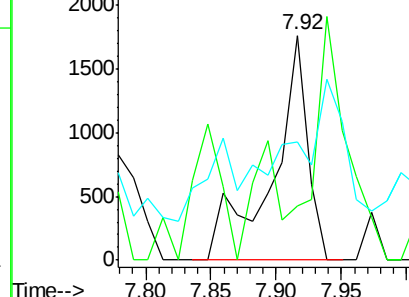


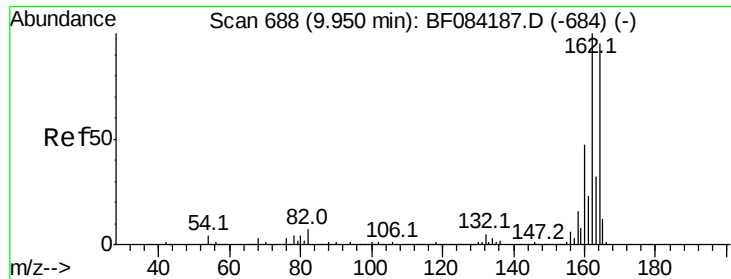
#32
Benzoic acid
Concen: 6.47 ng
RT: 7.92 min Scan# 510
Delta R.T. 0.02 min
Lab File: BF084477.D
Acq: 14 Jan 2016 8:44

Tgt Ion:122 Resp: 3325
Ion Ratio Lower Upper
122 100
105 24.2 100.3 140.3#
77 52.9 63.5 103.5#



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 681

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Instrument :

BNA_F

ClientSampleId :

WHRB3A

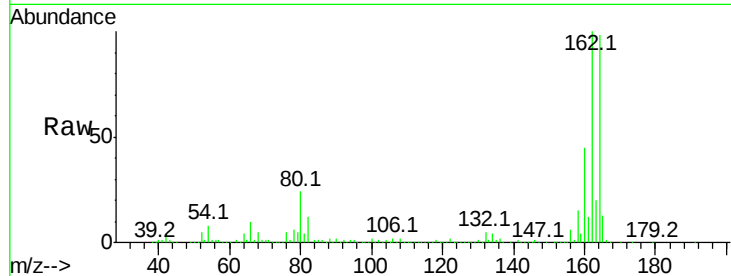
Tot Ion:164 Resp: 487743

Ion Ratio Lower Upper

164 100

162 101.8 85.1 127.7

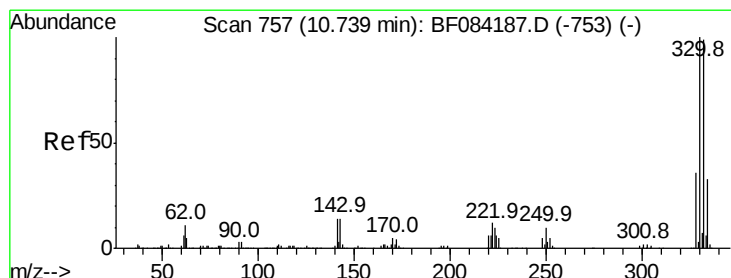
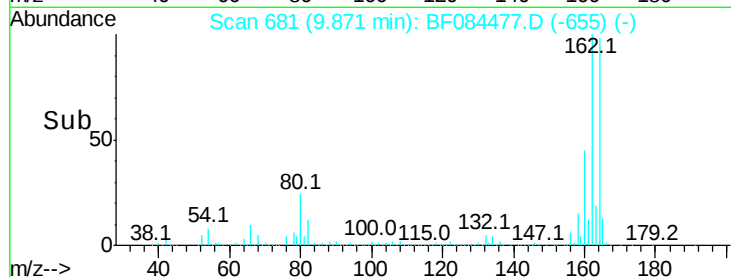
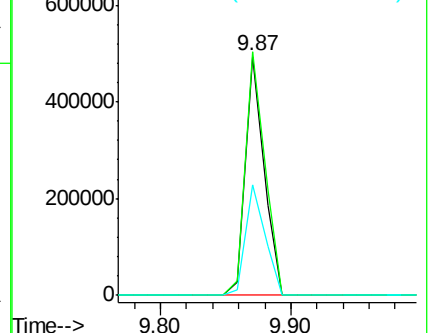
160 46.3 37.5 56.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 144.88 ng

RT: 10.67 min Scan# 751

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

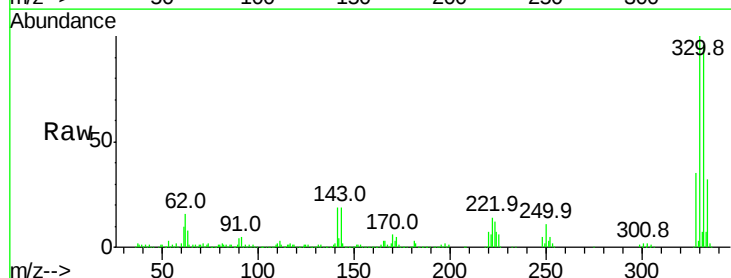
Tgt Ion:330 Resp: 713410

Ion Ratio Lower Upper

330 100

332 96.0 76.6 114.8

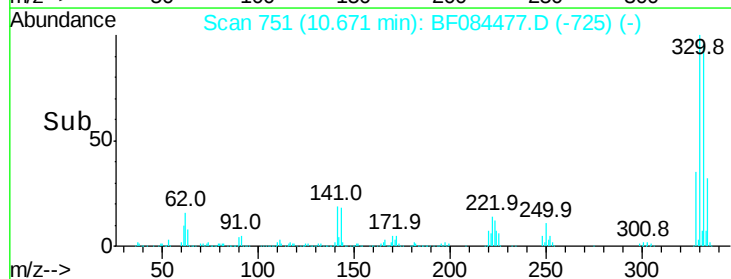
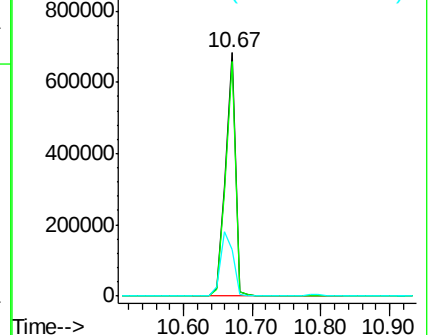
141 32.7 27.8 41.6

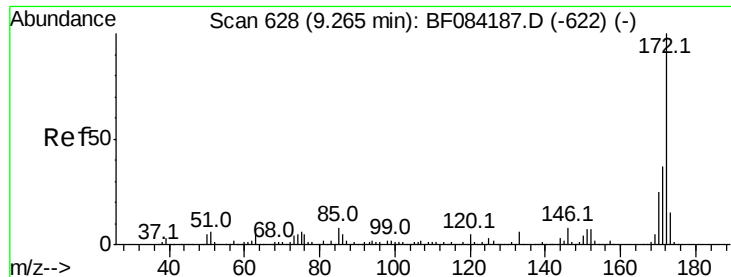


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



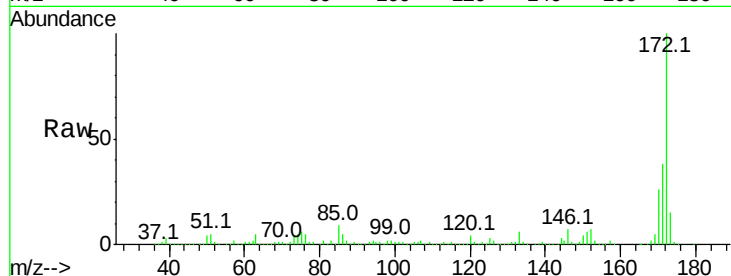


#44
 2-Fluorobiphenyl
 Concen: 109.32 ng
 RT: 9.20 min Scan# 622
 Delta R.T. 0.00 min
 Lab File: BF084477.D
 Acq: 14 Jan 2016 8:44

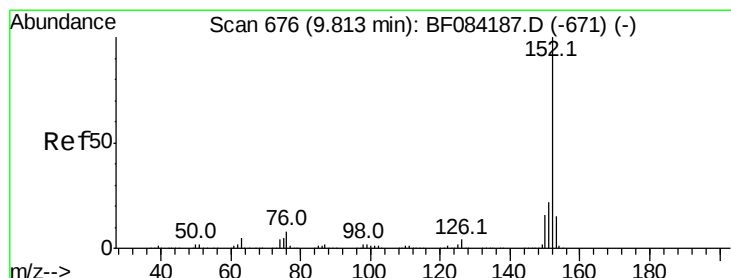
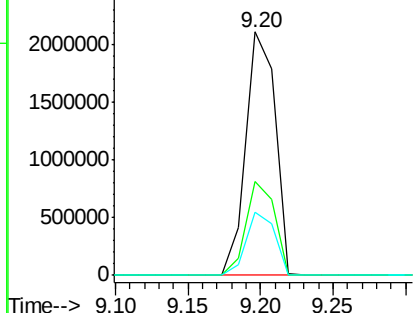
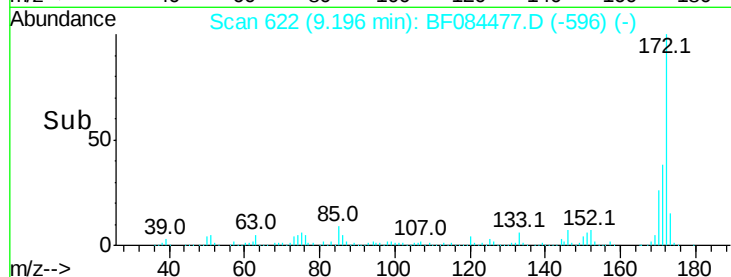
Instrument :
 BNA_F
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 WHRB3A

Tot Ion:172 Resp: 2980781

Ion	Ratio	Lower	Upper
172	100		
171	38.3	28.9	43.3
170	26.0	18.6	27.8



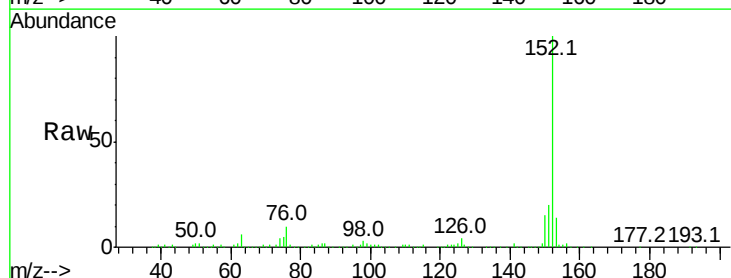
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



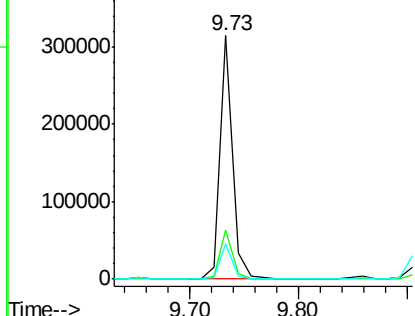
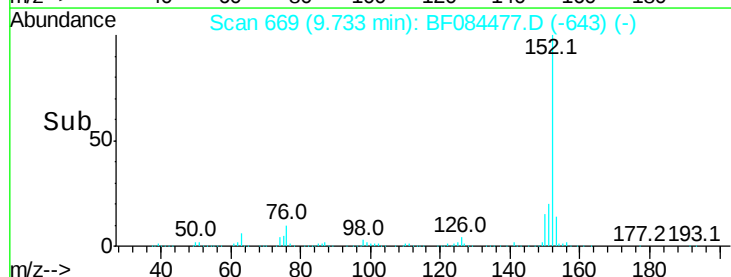
#48
 Acenaphthylene
 Concen: 5.70 ng
 RT: 9.73 min Scan# 669
 Delta R.T. 0.00 min
 Lab File: BF084477.D
 Acq: 14 Jan 2016 8:44

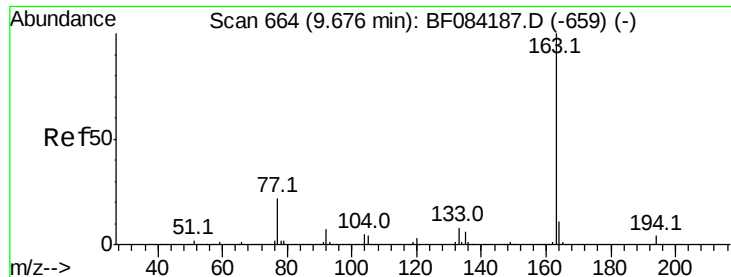
Tgt Ion:152 Resp: 256313

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	14.1	10.4	15.6



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E

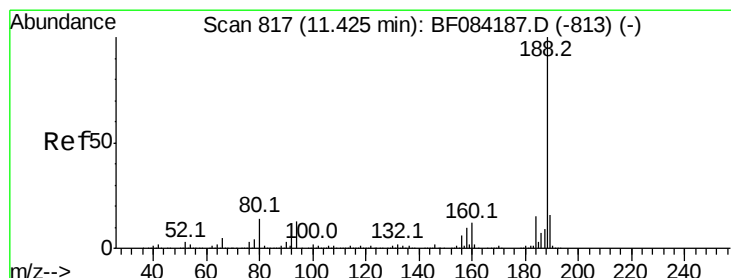
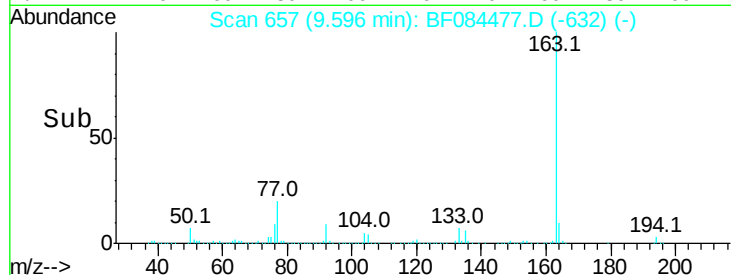
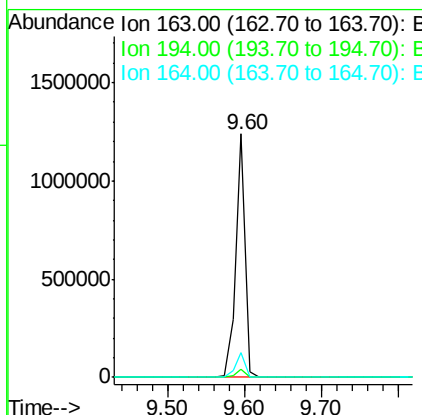
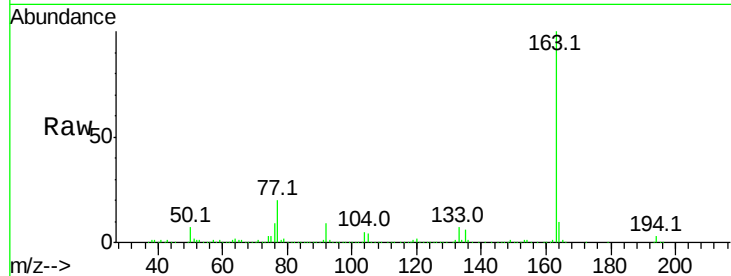




#49
Dimethylphthalate
Concen: 31.14 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.01 min
Lab File: BF084477.D
Acq: 14 Jan 2016 8:44

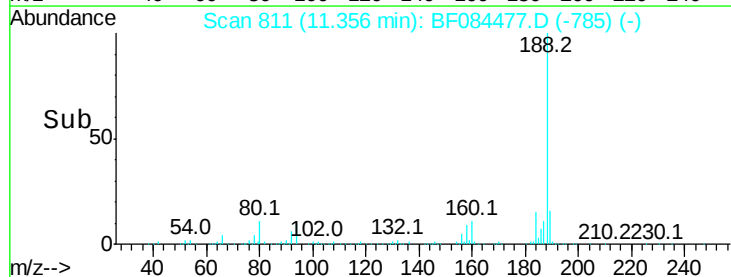
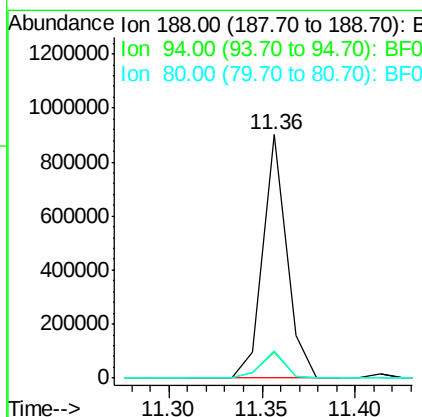
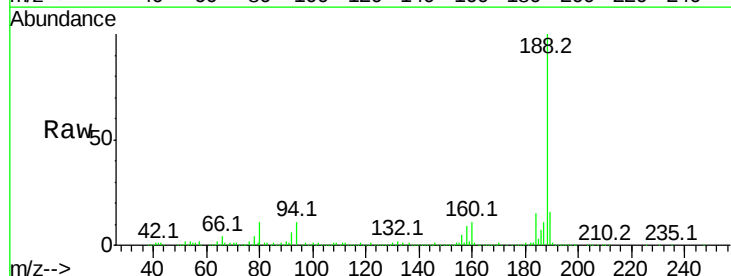
Instrument :
BNA_F
ClientSampleId :
WHRB3A

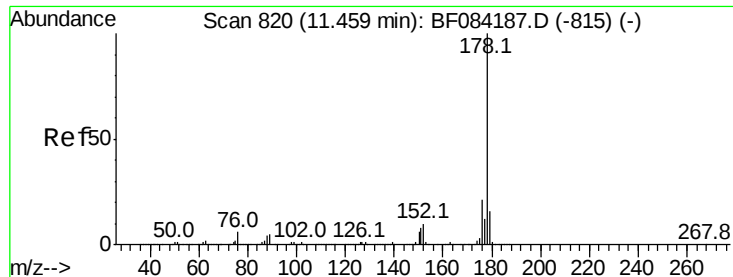
Tot Ion:163 Resp: 1085933
Ion Ratio Lower Upper
163 100
194 3.3 8.0 12.0#
164 10.4 8.0 12.0



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 811
Delta R.T. 0.00 min
Lab File: BF084477.D
Acq: 14 Jan 2016 8:44

Tgt Ion:188 Resp: 793424
Ion Ratio Lower Upper
188 100
94 10.6 9.0 13.4
80 11.0 9.6 14.4

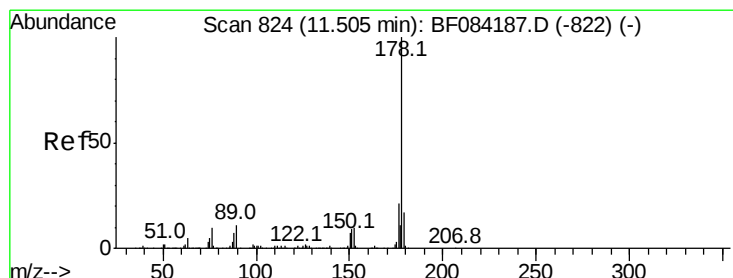
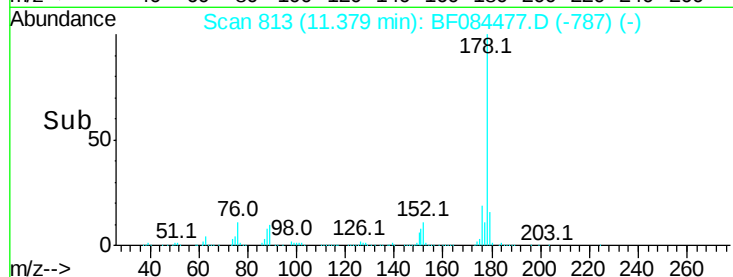
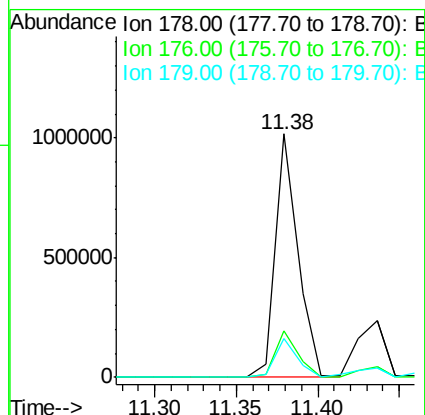
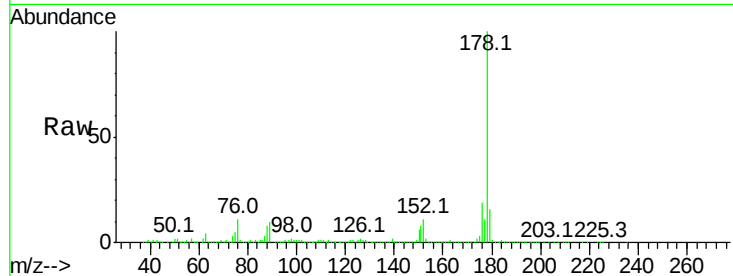




#70
Phenanthrene
Concen: 23.65 ng
RT: 11.38 min Scan# 813
Delta R.T. 0.00 min
Lab File: BF084477.D
Acq: 14 Jan 2016 8:44

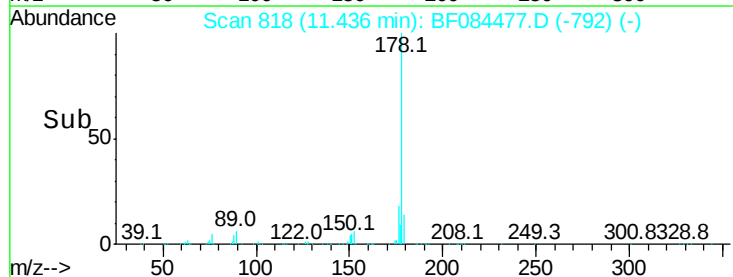
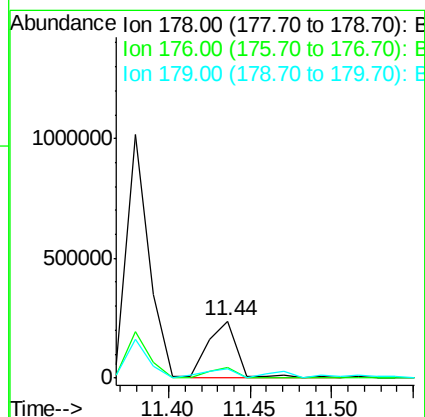
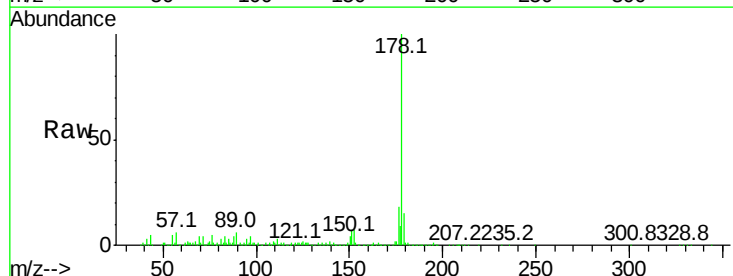
Instrument :
BNA_F
ClientSampleId :
WHRB3A

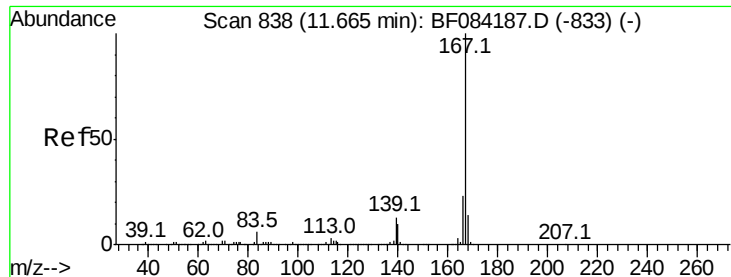
Tot Ion:178 Resp: 981434
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 16.1 12.0 18.0



#71
Anthracene
Concen: 6.95 ng
RT: 11.44 min Scan# 818
Delta R.T. 0.00 min
Lab File: BF084477.D
Acq: 14 Jan 2016 8:44

Tgt Ion:178 Resp: 282876
Ion Ratio Lower Upper
178 100
176 18.2 15.4 23.0
179 15.4 12.5 18.7

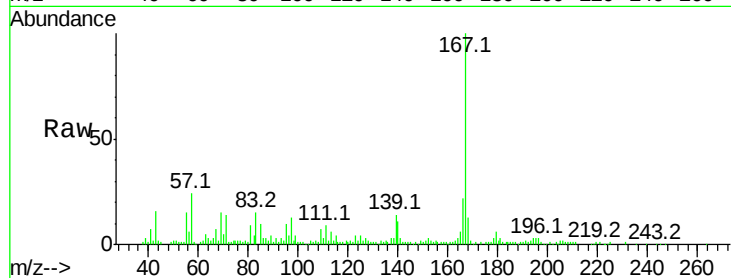




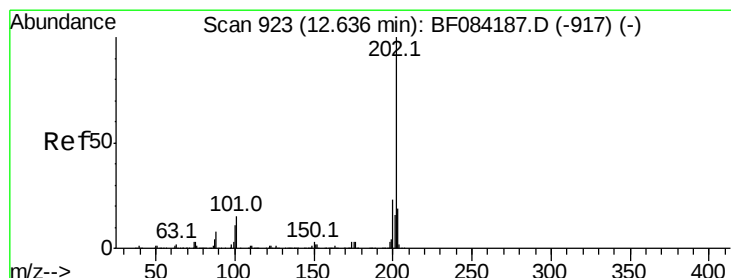
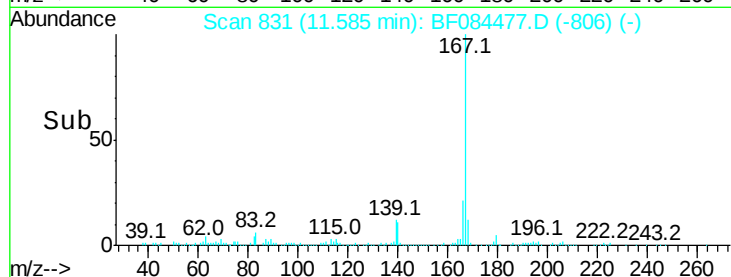
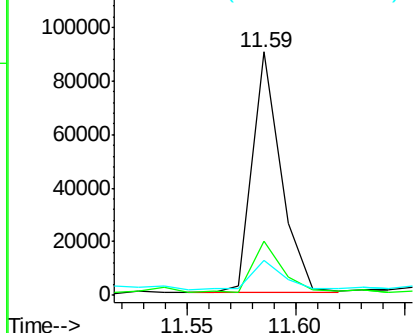
#72
 Carbazole
 Concen: 2.06 ng
 RT: 11.59 min Scan# 831
 Delta R.T. -0.01 min
 Lab File: BF084477.D
 Acq: 14 Jan 2016 8:44

Instrument :
 BNA_F
 ClientSampleId :
 WHRB3A

Tot Ion:167 Resp: 82040
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.6 26.4
 139 14.4 11.8 17.8

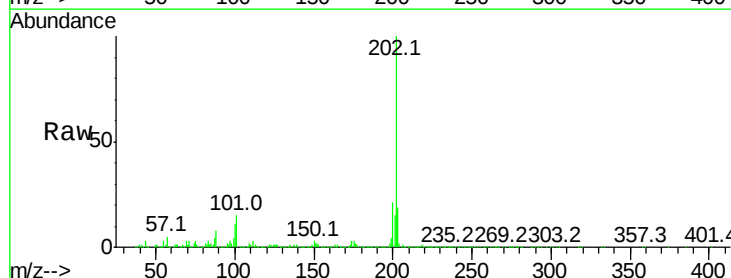


Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E

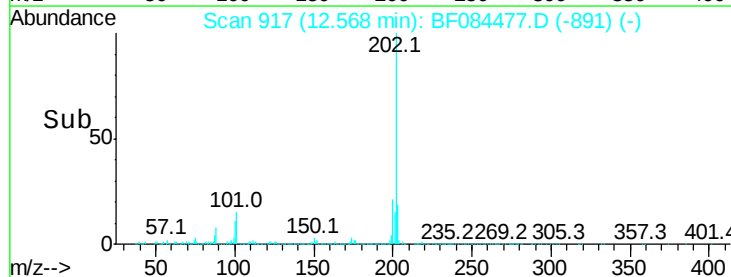
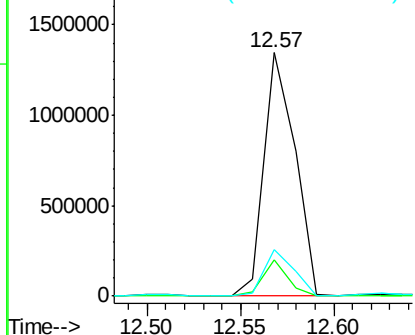


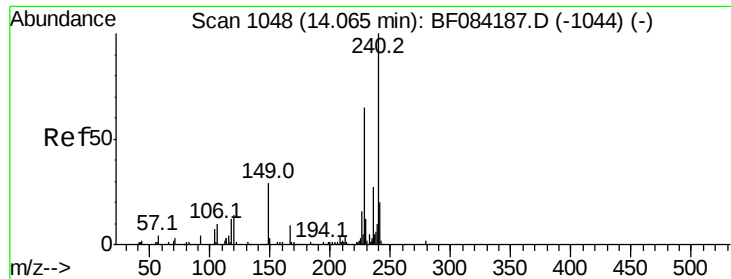
#74
 Fluoranthene
 Concen: 35.53 ng
 RT: 12.57 min Scan# 917
 Delta R.T. 0.00 min
 Lab File: BF084477.D
 Acq: 14 Jan 2016 8:44

Tgt Ion:202 Resp: 1540533
 Ion Ratio Lower Upper
 202 100
 101 14.8 0.0 32.8
 203 19.0 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: 14.00 min Scan# 1042

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Instrument :

BNA_F

ClientSampleId :

WHRB3A

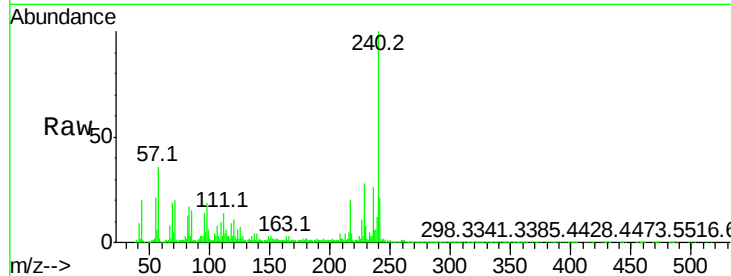
Tot Ion:240 Resp: 466113

Ion Ratio Lower Upper

240 100

120 11.3 9.5 14.3

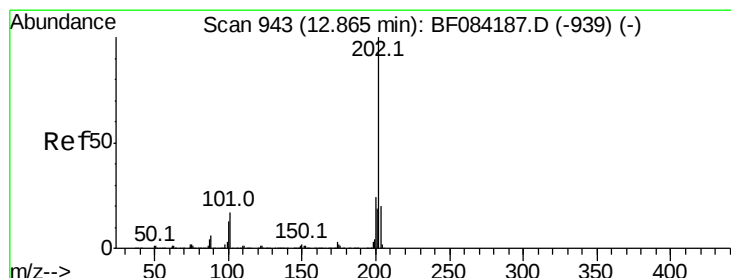
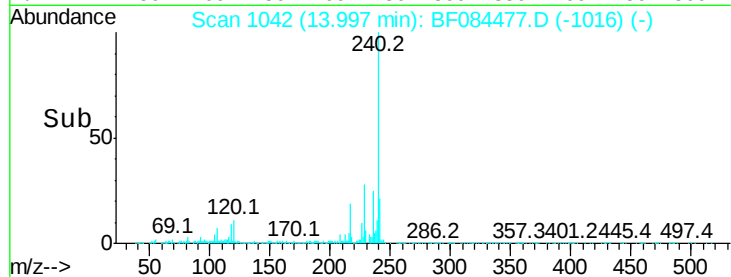
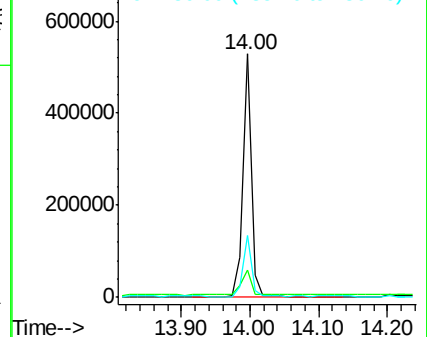
236 25.5 20.6 31.0



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: 38.27 ng

RT: 12.80 min Scan# 937

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

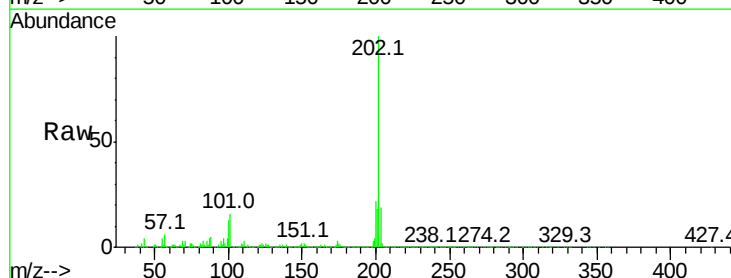
Tgt Ion:202 Resp: 1399646

Ion Ratio Lower Upper

202 100

200 21.9 17.2 25.8

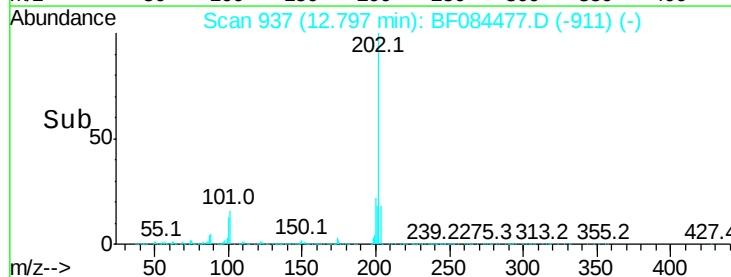
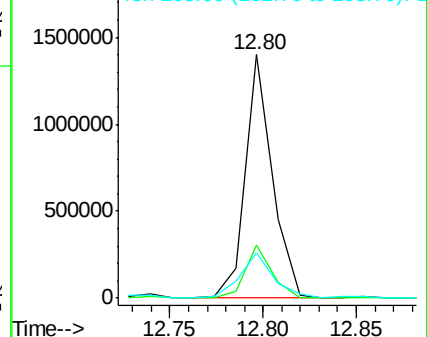
203 18.5 14.3 21.5

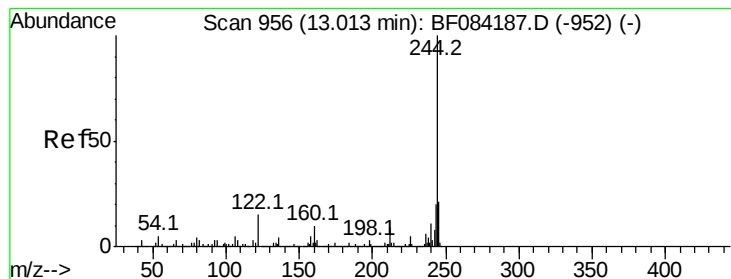


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 79.08 ng

RT: 12.95 min Scan# 950

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Instrument :

BNA_F

ClientSampleId :

WHRB3A

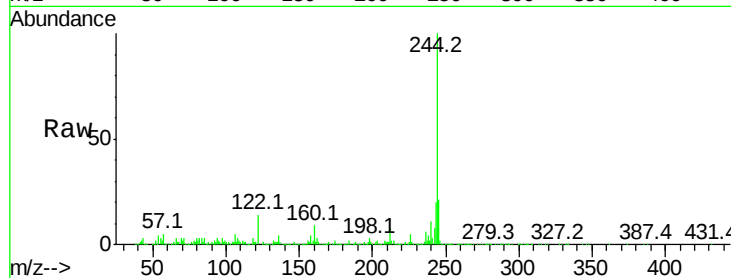
Tot Ion:244 Resp: 1651403

Ion Ratio Lower Upper

244 100

212 8.0 5.7 8.5

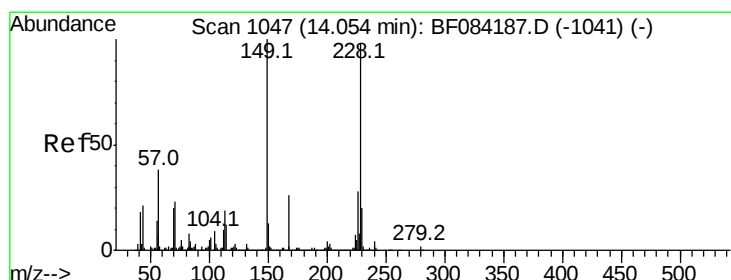
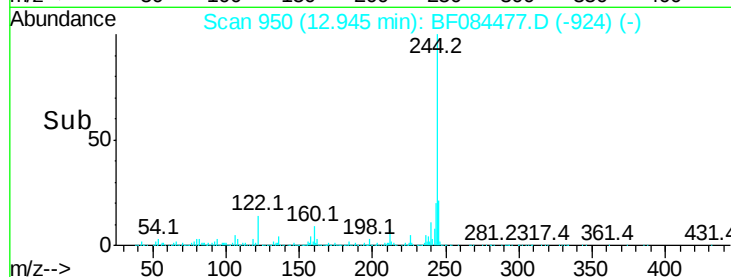
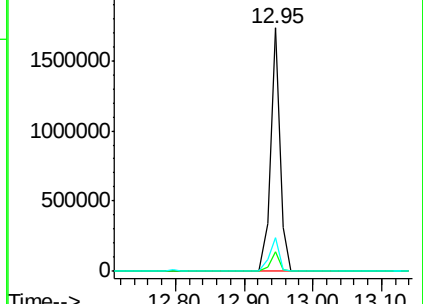
122 13.8 7.4 11.0#



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: 28.38 ng m

RT: 13.99 min Scan# 1041

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

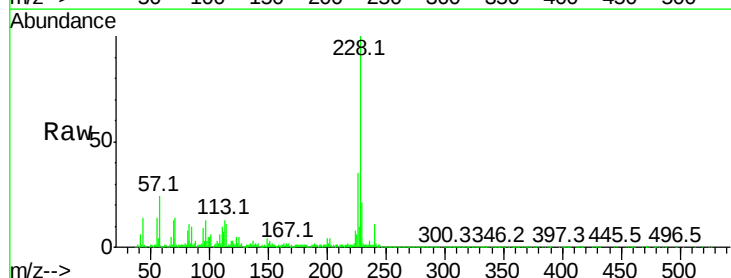
Tgt Ion:228 Resp: 776615

Ion Ratio Lower Upper

228 100

226 35.0 21.8 32.6#

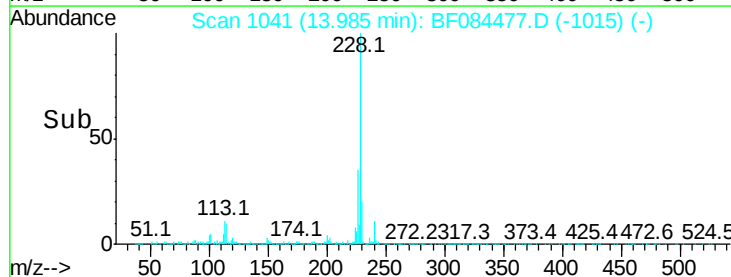
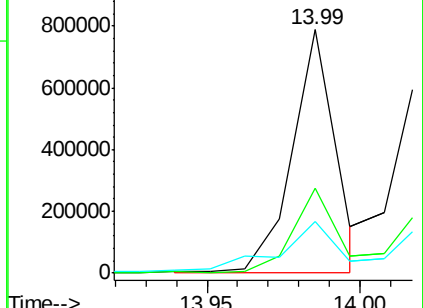
229 21.1 15.8 23.8

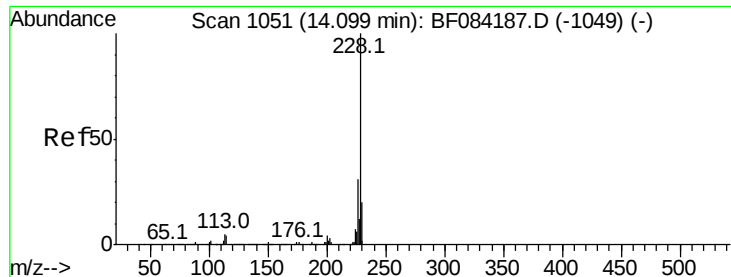


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 22.28 ng

RT: 14.02 min Scan# 1044

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Instrument :

BNA_F

ClientSampleId :

WHRB3A

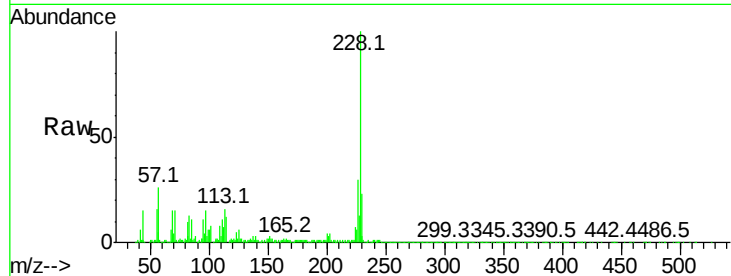
Tot Ion:228 Resp: 586034

Ion Ratio Lower Upper

228 100

226 30.2 24.3 36.5

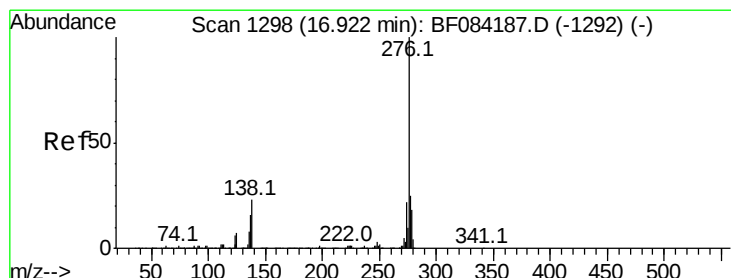
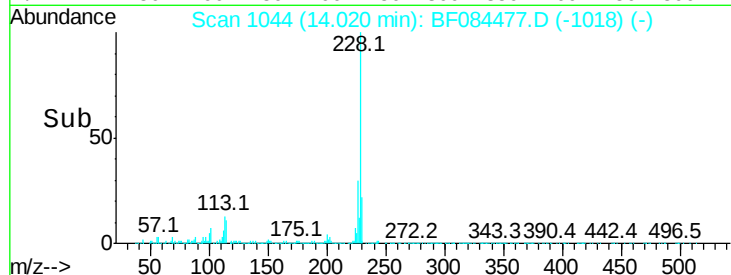
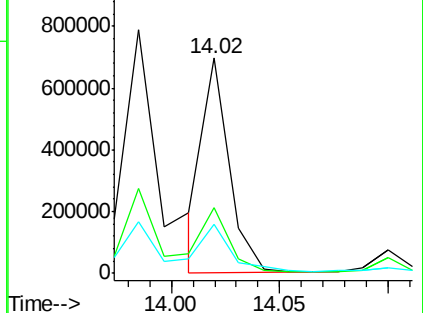
229 22.6 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 22.03 ng

RT: 16.80 min Scan# 1287

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

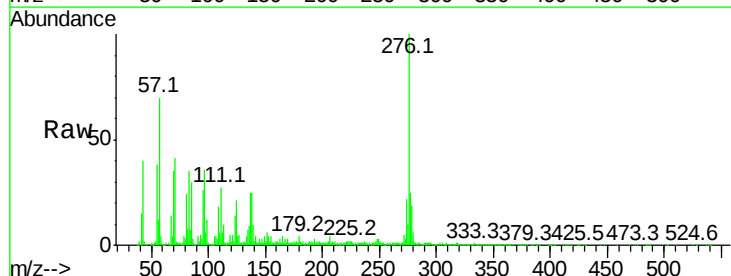
Tgt Ion:276 Resp: 459373

Ion Ratio Lower Upper

276 100

138 24.4 20.6 30.8

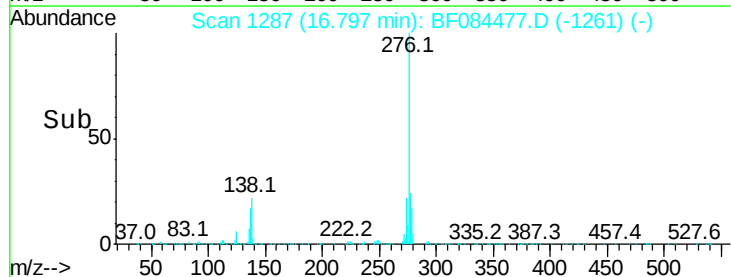
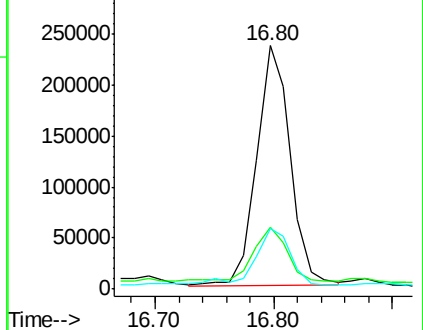
277 25.2 20.1 30.1

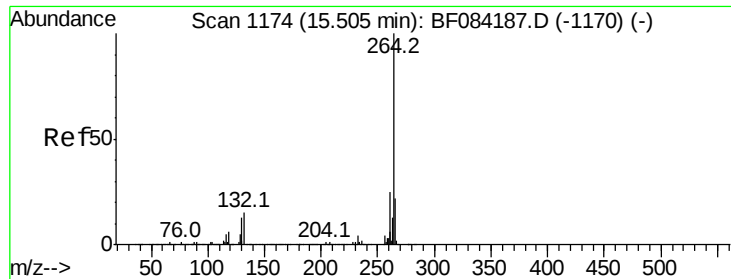


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.41 min Scan# 1166

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Instrument :

BNA_F

ClientSampleId :

WHRB3A

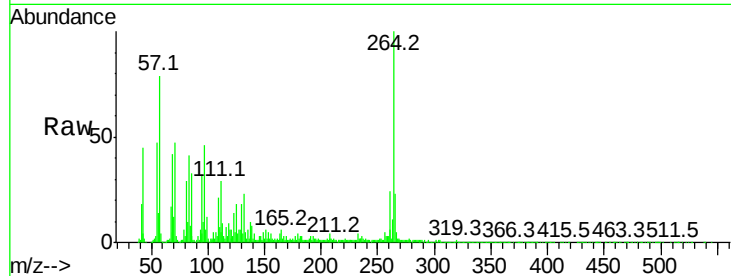
Tot Ion:264 Resp: 467833

Ion Ratio Lower Upper

264 100

260 24.0 19.4 29.2

265 23.2 17.8 26.6

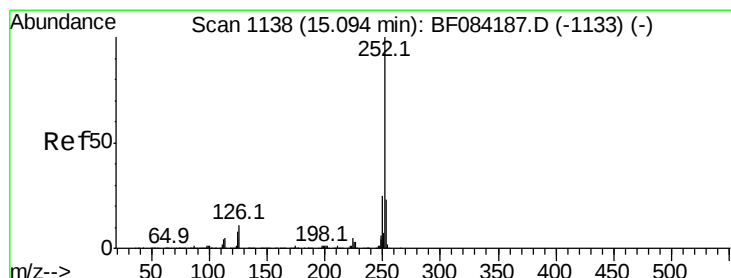
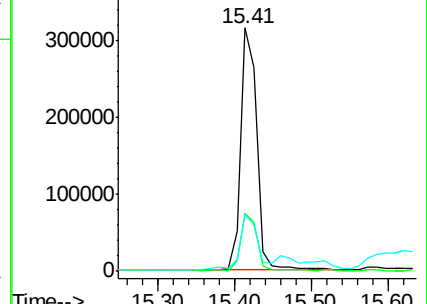
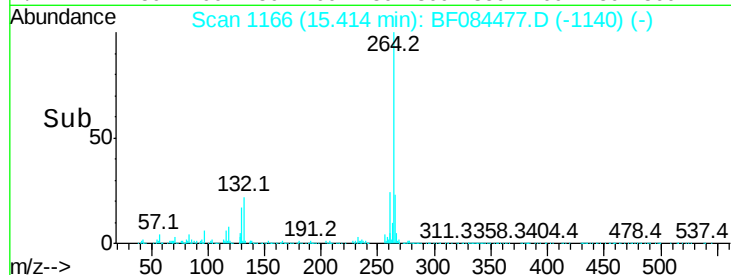


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

Time-->



#87

Benzo(b)fluoranthene

Concen: 30.61 ng m

RT: 15.01 min Scan# 1131

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

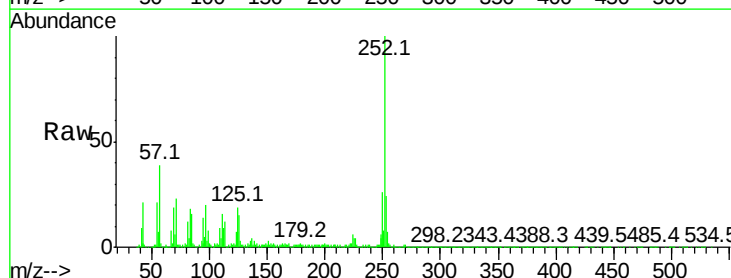
Tgt Ion:252 Resp: 936897

Ion Ratio Lower Upper

252 100

253 23.7 17.3 25.9

125 18.6 6.5 9.7#

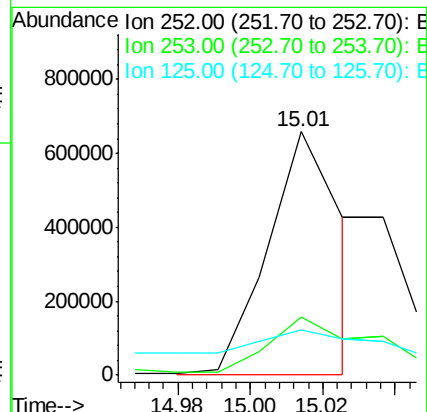
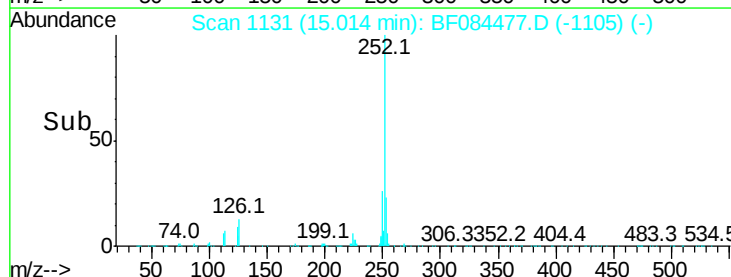


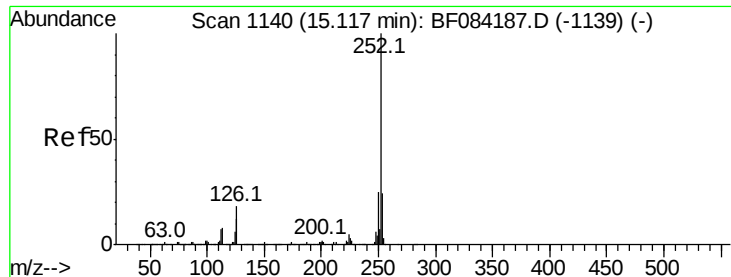
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

Time-->





#88

Benzo(k)fluoranthene

Concen: 15.31 ng m

RT: 15.04 min Scan# 1133

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Instrument :

BNA_F

ClientSampled :

WHRB3A

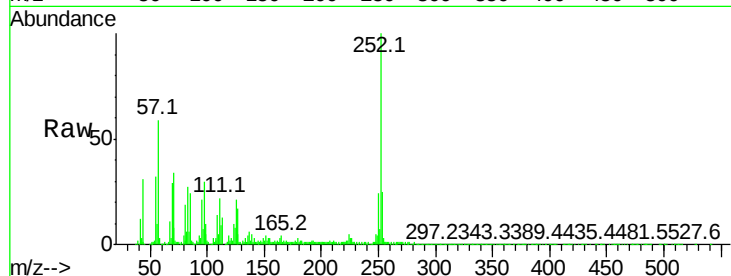
Tot Ion:252 Resp: 383231

Ion Ratio Lower Upper

252 100

253 24.7 18.1 27.1

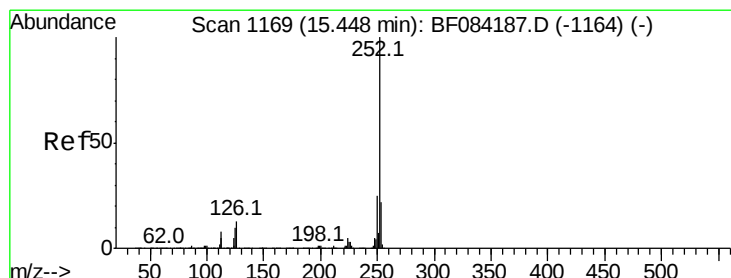
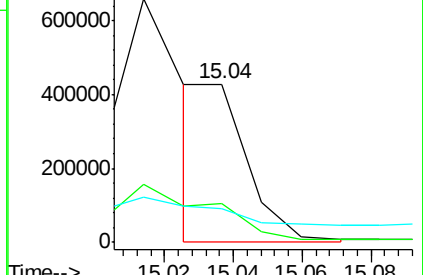
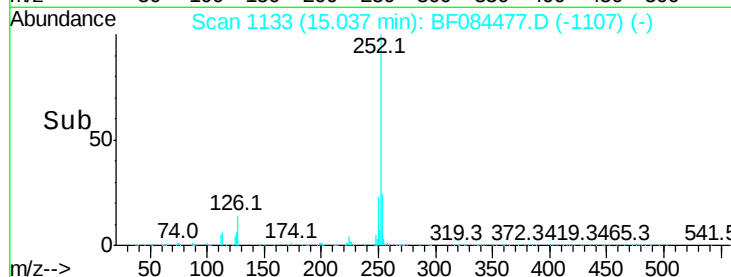
125 21.2 9.0 13.6#



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: 28.81 ng

RT: 15.36 min Scan# 1161

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

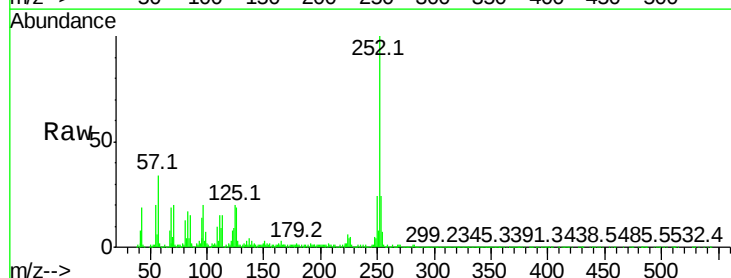
Tgt Ion:252 Resp: 747739

Ion Ratio Lower Upper

252 100

253 24.3 17.3 25.9

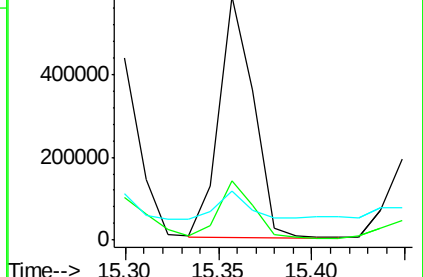
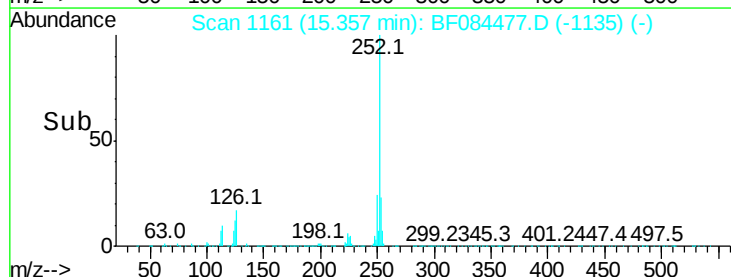
125 20.3 7.0 10.4#

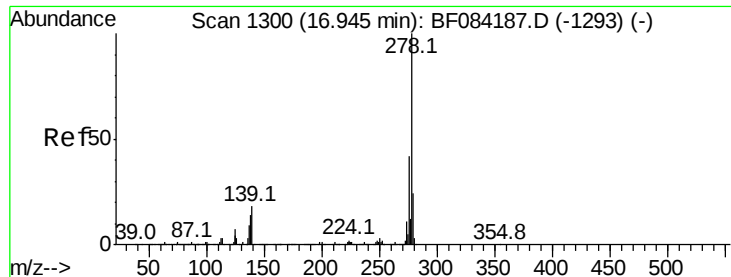


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 4.81 ng

RT: 16.81 min Scan# 1288

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Instrument :

BNA_F

ClientSampleId :

WHRB3A

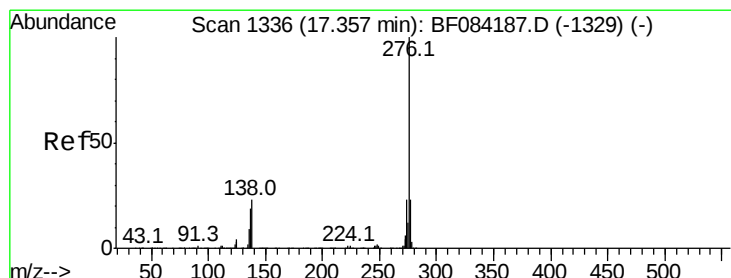
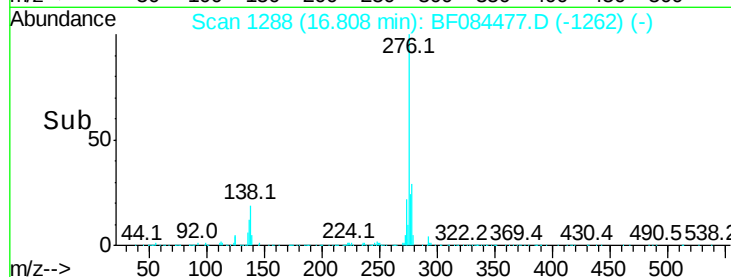
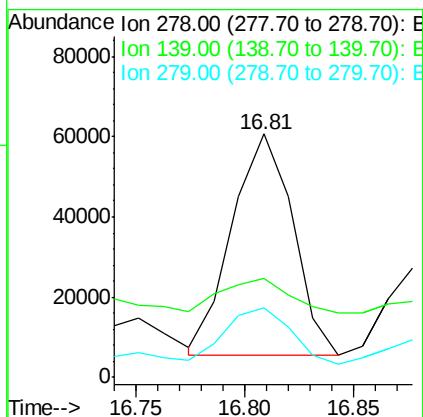
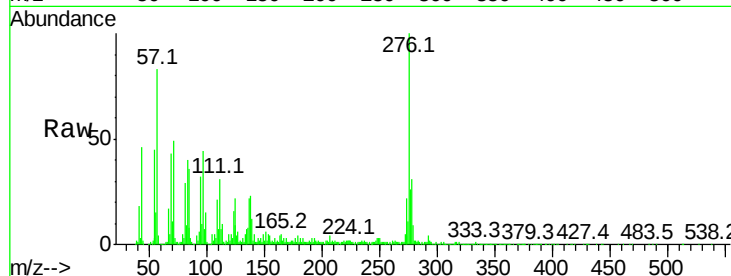
Tot Ion:278 Resp: 107457

Ion Ratio Lower Upper

278 100

139 40.7 15.0 22.4#

279 28.6 18.9 28.3#



#91

Benzo(g,h,i)perylene

Concen: 18.13 ng

RT: 17.22 min Scan# 1324

Delta R.T. 0.00 min

Lab File: BF084477.D

Acq: 14 Jan 2016 8:44

Tgt Ion:276 Resp: 419408

Ion Ratio Lower Upper

276 100

277 23.8 18.8 28.2

138 25.5 17.8 26.6

