

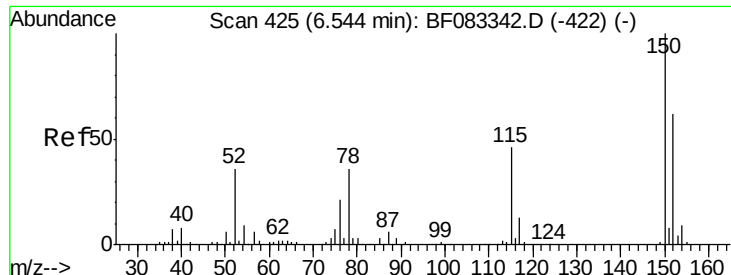
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
 Data File : BF083467.D
 Acq On : 3 Dec 2015 18:48
 Operator : UM/IZ
 Sample : G4585-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)

Quant Time: Dec 03 19:25:12 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 03 17:02:53 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.52	152	173483	20.00	ng	-0.01
21) Naphthalene-d8	7.81	136	675202	20.00	ng	-0.01
38) Acenaphthene-d10	9.56	164	333242	20.00	ng	0.00
63) Phenanthrene-d10	11.11	188	543018	20.00	ng	0.01
75) Chrysene-d12	14.74	240	365023	20.00	ng	0.02
86) Perylene-d12	16.80	264	346613	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.12	112	1516211	131.15	ng	0.00
7) Phenol-d6	6.20	99	1953222	123.43	ng	0.00
23) Nitrobenzene-d5	7.10	82	1358781	88.46	ng	0.00
41) 2,4,6-Tribromophenol	10.35	330	366334	109.51	ng	-0.01
44) 2-Fluorobiphenyl	8.90	172	1795523	76.78	ng	0.00
78) Terphenyl-d14	13.20	244	1590411	103.91	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	7.85	128	2743922	74.90	ng	99
37) 2-Methylnaphthalene	8.53	142	916198	37.42	ng	98
45) 1,1'-Biphenyl	8.99	154	457834	15.67	ng	95
48) Acenaphthylene	9.42	152	2747490	77.35	ng	98
49) Dimethylphthalate	9.30	163	225680	8.33	ng	98
51) Acenaphthene	9.60	154	351040	16.80	ng	99
54) Dibenzofuran	9.77	168	188282	6.15	ng	# 88
57) Fluorene	10.11	166	1369672	56.65	ng	99
70) Phenanthrene	11.16	178	8111296m	252.41	ng	
71) Anthracene	11.21	178	2367753	73.19	ng	98
74) Fluoranthene	12.66	202	6524408	195.87	ng	97
77) Pyrene	12.99	202	8451102	331.52	ng	93
80) Benzo(a)anthracene	14.73	228	3125353m	139.75	ng	
82) Chrysene	14.79	228	2985147m	138.16	ng	
85) Indeno(1,2,3-cd)pyrene	18.19	276	1817648	115.51	ng	95
87) Benzo(b)fluoranthene	16.31	252	3226947m	145.09	ng	
88) Benzo(k)fluoranthene	16.33	252	858222m	40.87	ng	
89) Benzo(a)pyrene	16.74	252	3425576	179.32	ng	# 95
90) Dibenzo(a,h)anthracene	18.20	278	383013m	23.01	ng	
91) Benzo(a,h,i)perylene	18.58	276	2058074	125.98	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.52 min Scan# 423

Delta R.T. -0.01 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)

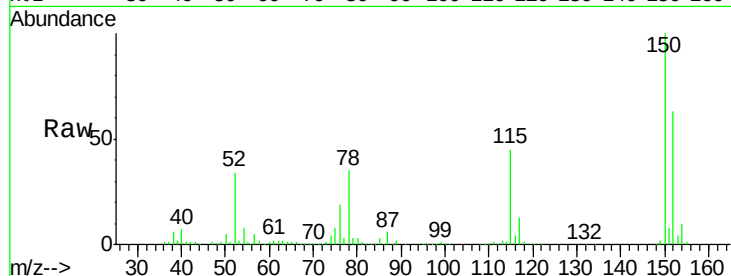
Tot Ion:152 Resp: 173483

Ion Ratio Lower Upper

152 100

150 159.2 129.8 194.8

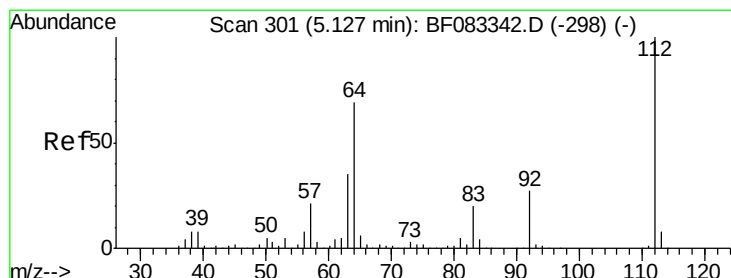
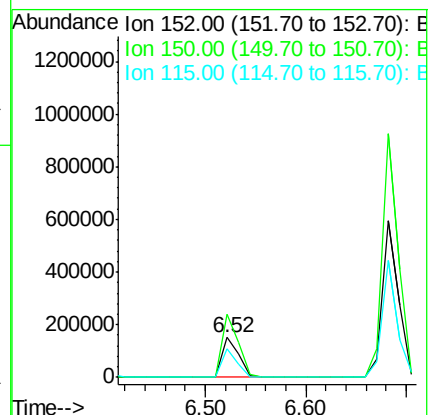
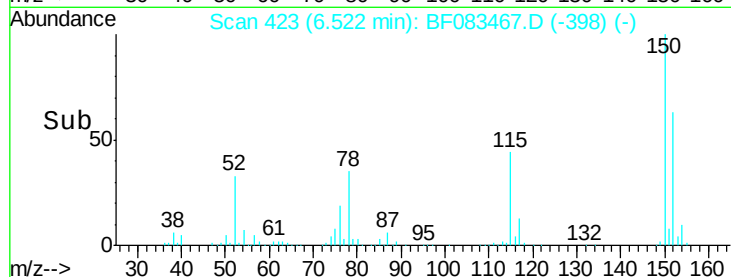
115 71.1 59.2 88.8



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



#5

2-Fluorophenol

Concen: 131.15 ng

RT: 5.12 min Scan# 300

Delta R.T. -0.00 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

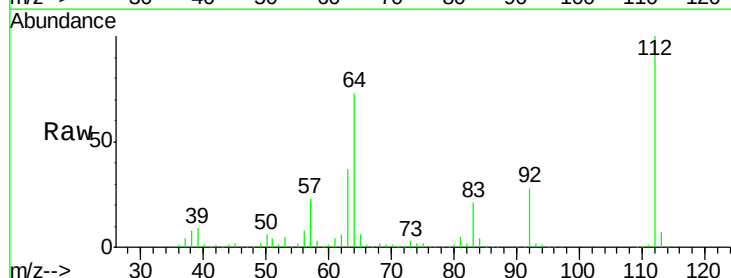
Tgt Ion:112 Resp: 1516211

Ion Ratio Lower Upper

112 100

64 72.5 55.6 83.4

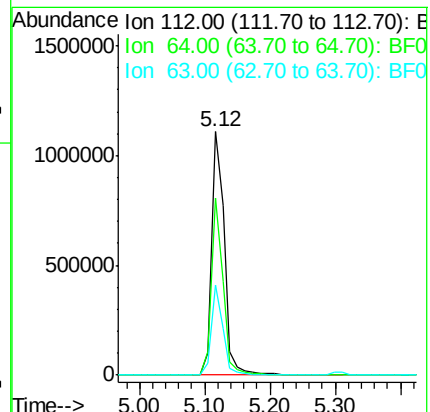
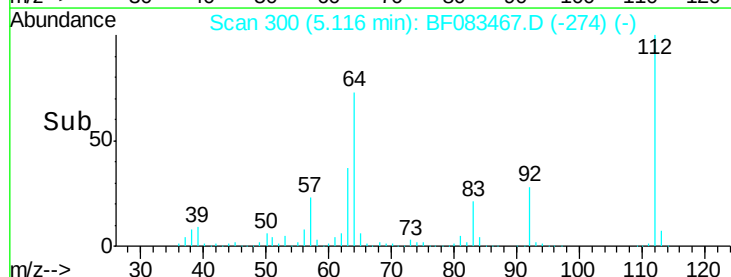
63 36.8 28.2 42.2

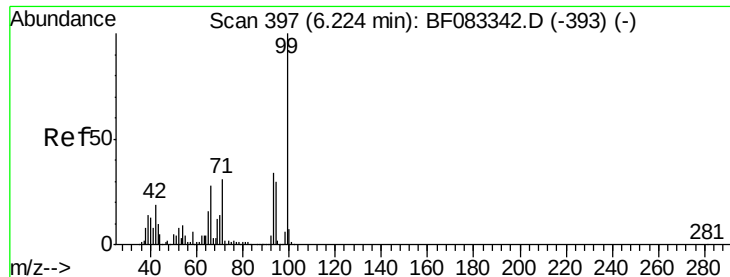


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 123.43 ng

RT: 6.20 min Scan# 395

Delta R.T. -0.00 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)

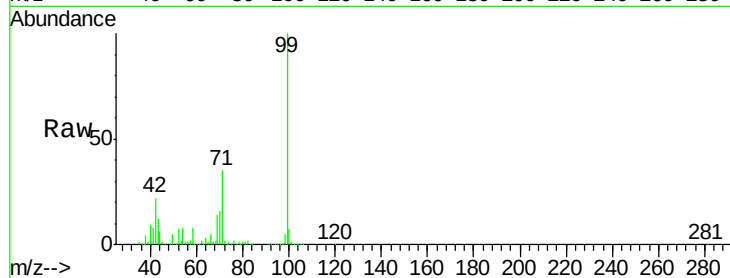
Tot Ion: 99 Resp: 1953222

Ion Ratio Lower Upper

99 100

42 22.3 14.9 22.3

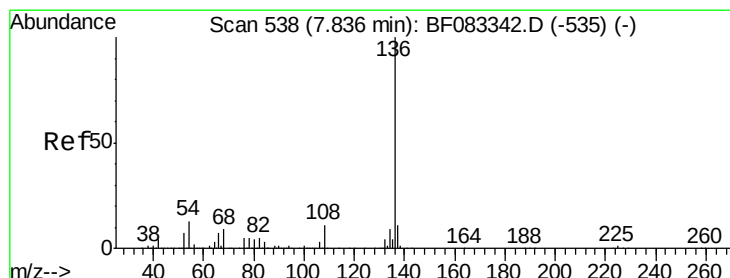
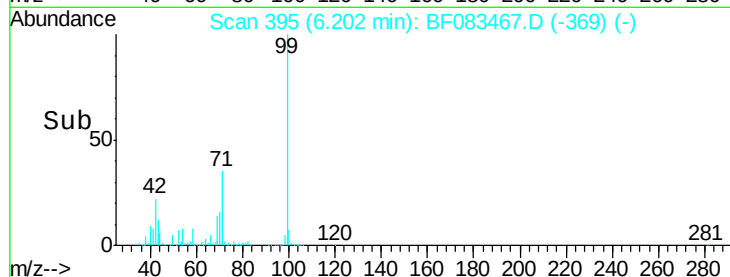
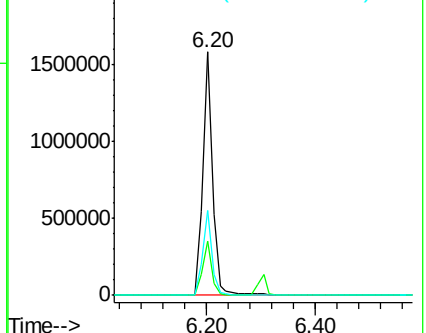
71 35.1 24.7 37.1



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: 7.81 min Scan# 536

Delta R.T. -0.01 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

Tgt Ion: 136 Resp: 675202

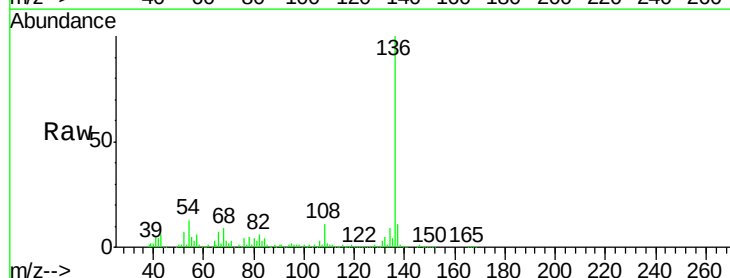
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 12.8 10.1 15.1

68 9.2 7.1 10.7

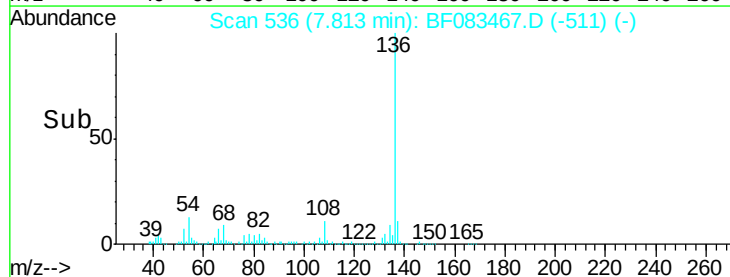
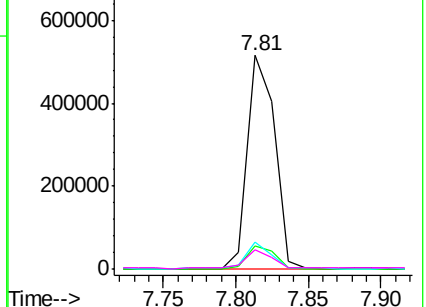


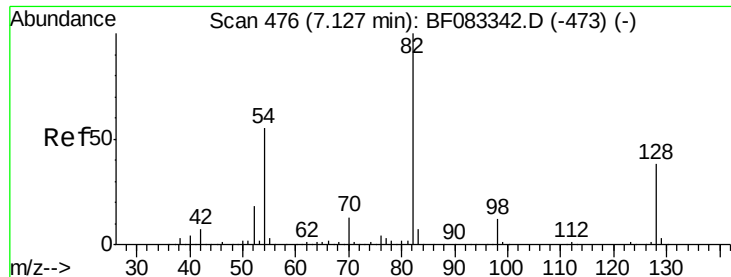
Abundance Ion 136.00 (135.70 to 136.70): E

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

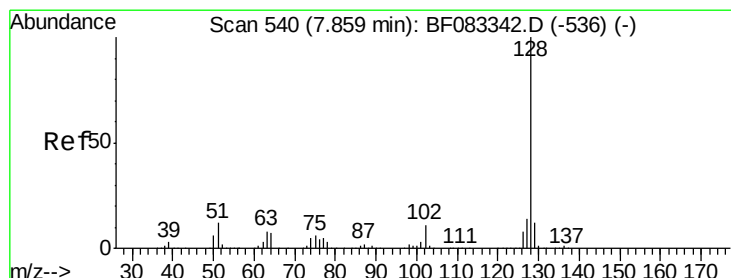
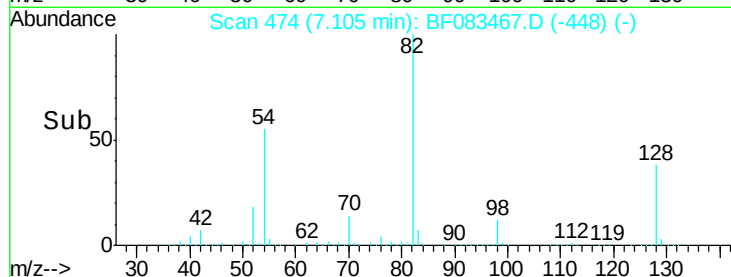
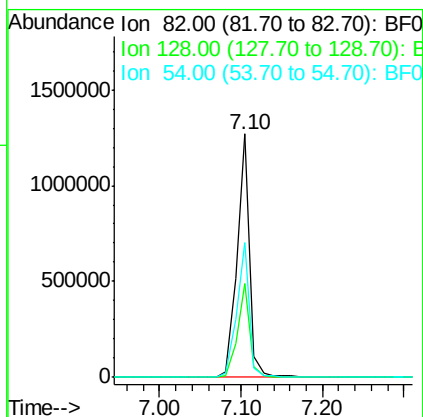
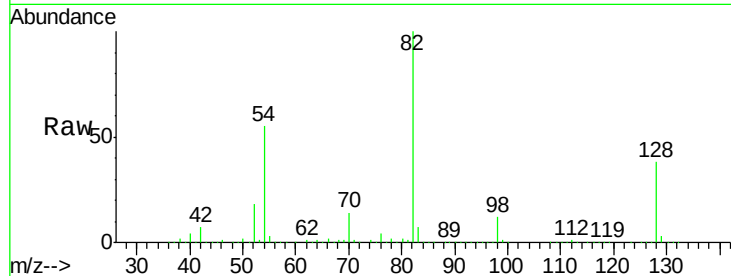




#23
 Nitrobenzene-d5
 Concen: 88.46 ng
 RT: 7.10 min Scan# 474
 Delta R.T. -0.00 min
 Lab File: BF083467.D
 Acq: 3 Dec 2015 18:48

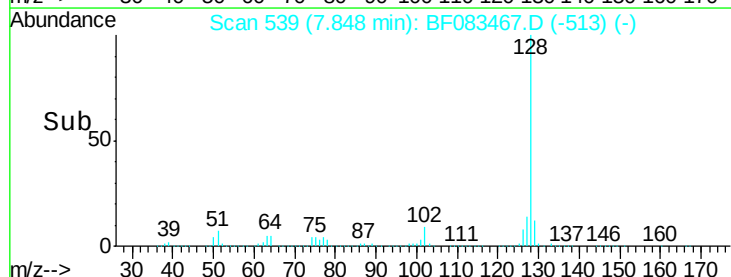
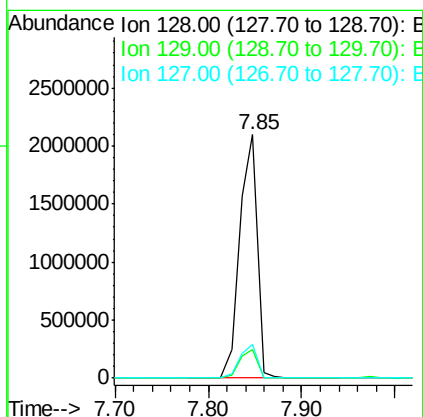
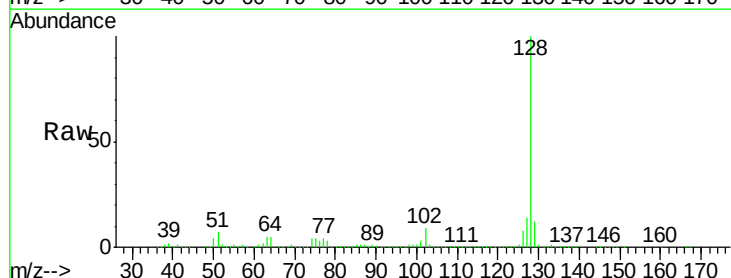
Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)

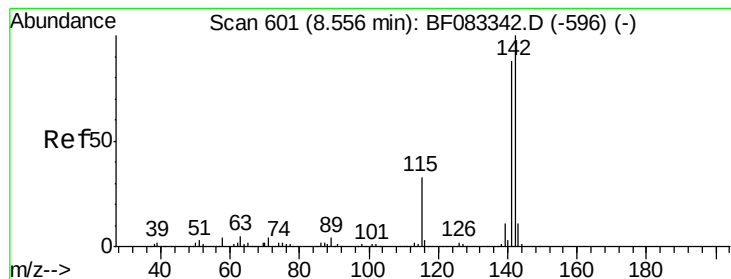
Tot Ion: 82 Resp: 1358781
 Ion Ratio Lower Upper
 82 100
 128 38.4 30.6 46.0
 54 55.2 43.8 65.6



#31
 Naphthalene
 Concen: 74.90 ng
 RT: 7.85 min Scan# 539
 Delta R.T. -0.00 min
 Lab File: BF083467.D
 Acq: 3 Dec 2015 18:48

Tgt Ion: 128 Resp: 2743922
 Ion Ratio Lower Upper
 128 100
 129 11.7 9.7 14.5
 127 14.0 11.0 16.4

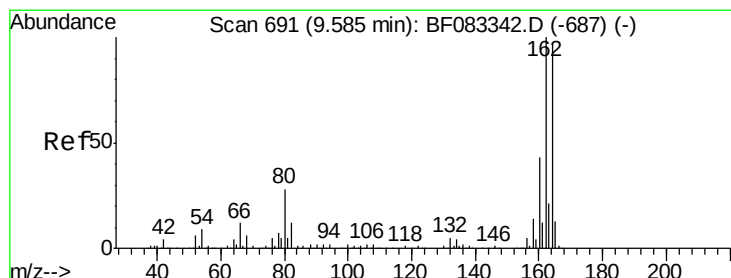
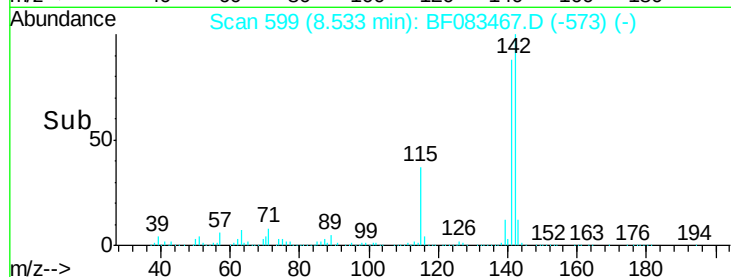
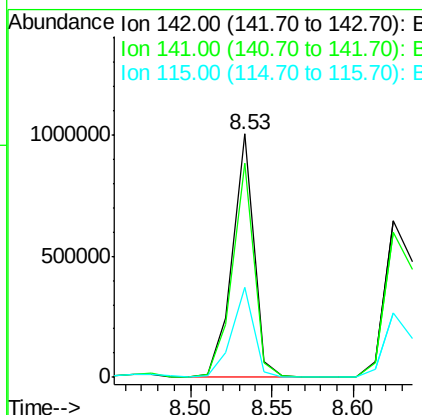
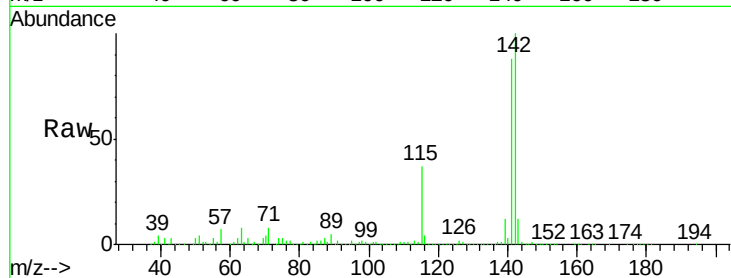




#37
2-Methylnaphthalene
Concen: 37.42 ng
RT: 8.53 min Scan# 599
Delta R.T. -0.00 min
Lab File: BF083467.D
Acq: 3 Dec 2015 18:48

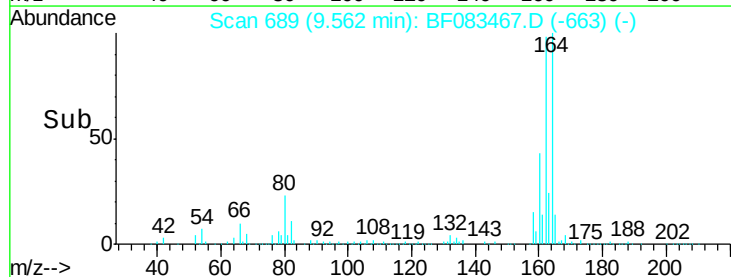
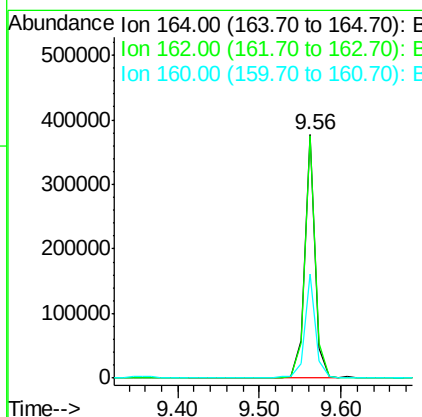
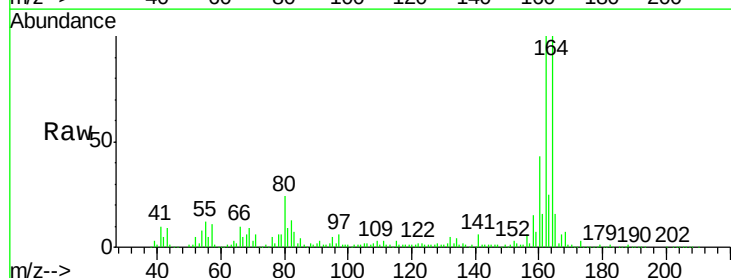
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)

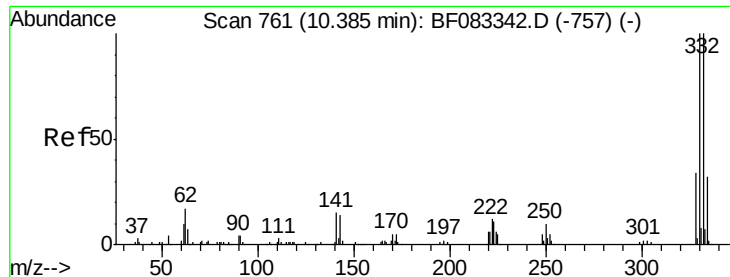
Tot Ion:142 Resp: 916198
Ion Ratio Lower Upper
142 100
141 88.1 70.6 105.8
115 37.0 26.2 39.2



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.56 min Scan# 689
Delta R.T. -0.00 min
Lab File: BF083467.D
Acq: 3 Dec 2015 18:48

Tgt Ion:164 Resp: 333242
Ion Ratio Lower Upper
164 100
162 99.5 82.6 123.8
160 42.9 35.3 52.9

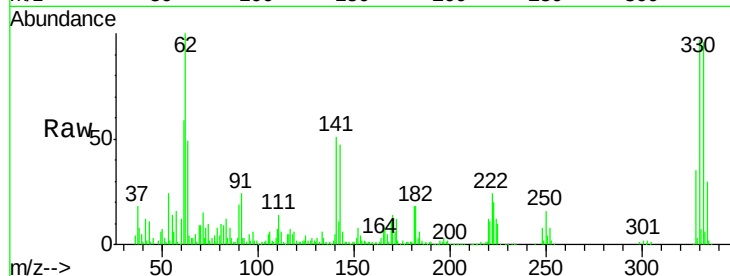




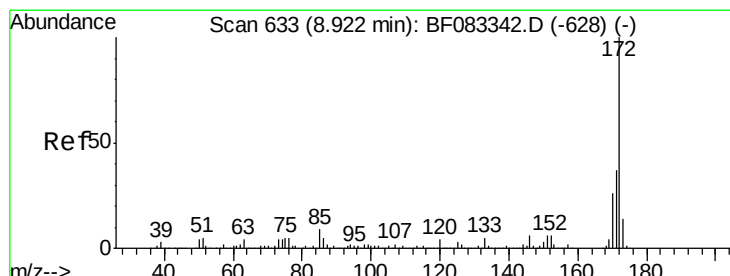
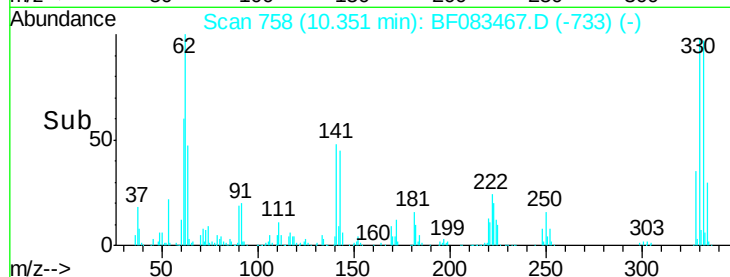
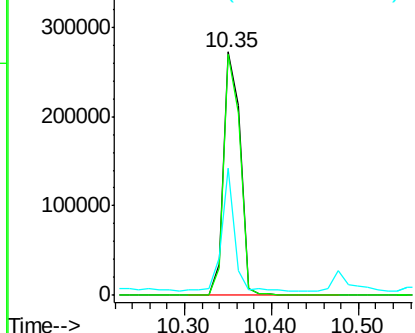
#41
 2,4,6-Tribromophenol
 Concen: 109.51 ng
 RT: 10.35 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: BF083467.D
 Acq: 3 Dec 2015 18:48

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.8	116.6
141	40.8	29.4	44.0

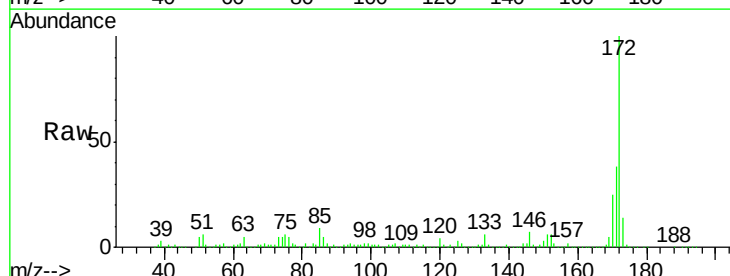


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

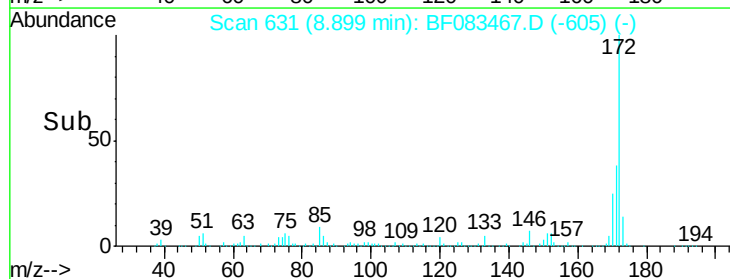
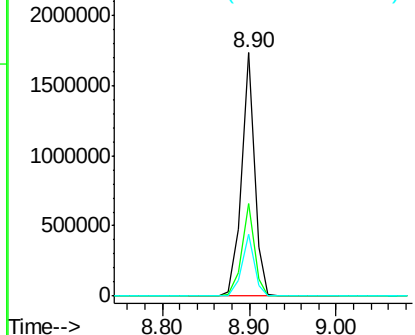


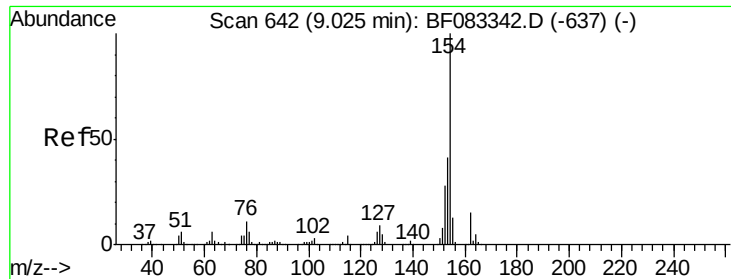
#44
 2-Fluorobiphenyl
 Concen: 76.78 ng
 RT: 8.90 min Scan# 631
 Delta R.T. -0.00 min
 Lab File: BF083467.D
 Acq: 3 Dec 2015 18:48

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.8	29.4	44.0
170	25.4	20.4	30.6



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

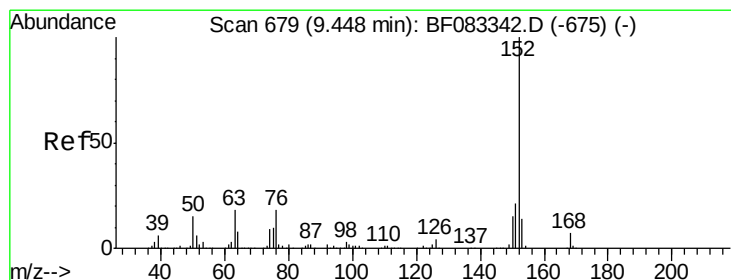
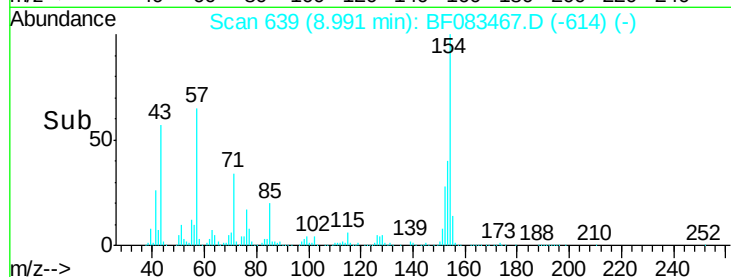
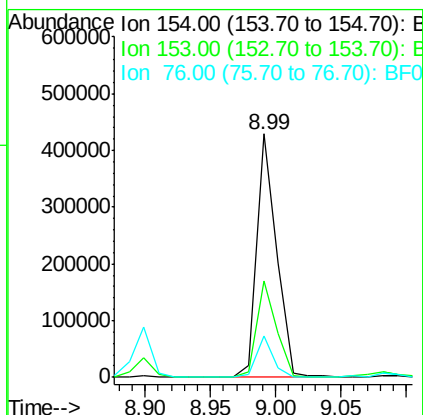
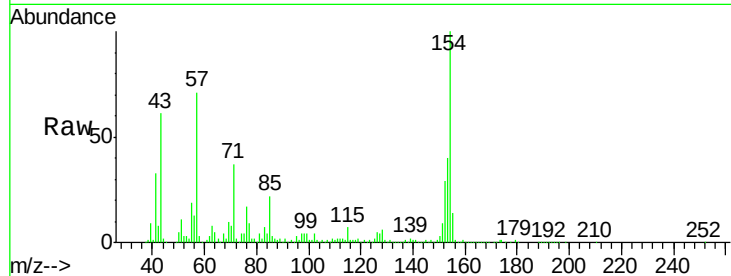




#45
 1,1'-Biphenyl
 Concen: 15.67 ng
 RT: 8.99 min Scan# 639
 Delta R.T. -0.01 min
 Lab File: BF083467.D
 Acq: 3 Dec 2015 18:48

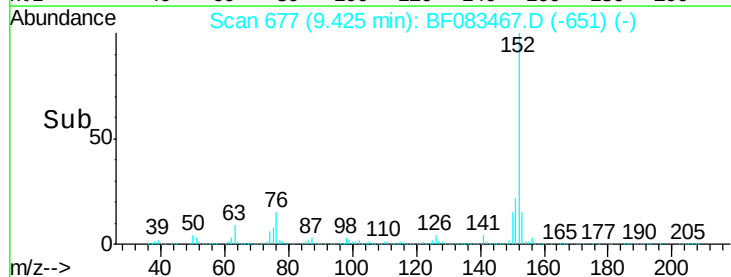
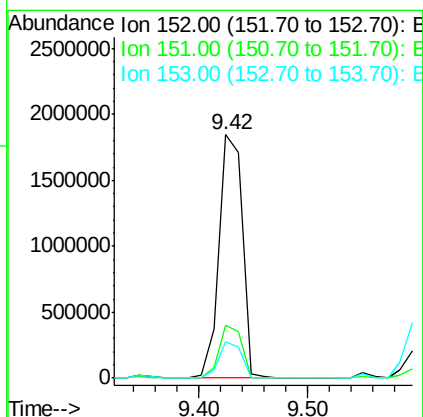
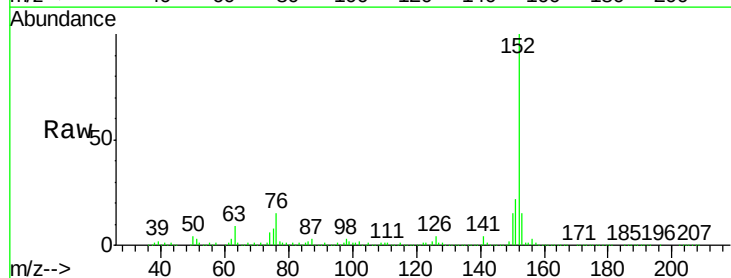
Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)

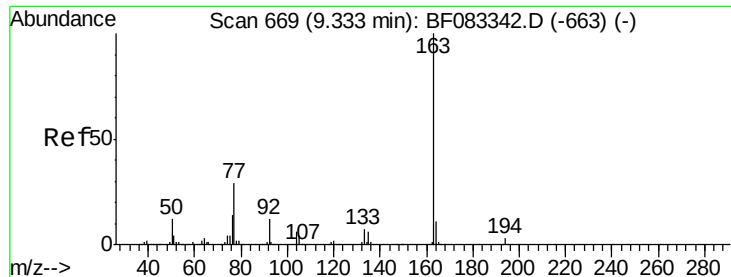
Tot Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.6	60.6
76	17.1	0.0	30.5



#48
 Acenaphthylene
 Concen: 77.35 ng
 RT: 9.42 min Scan# 677
 Delta R.T. -0.00 min
 Lab File: BF083467.D
 Acq: 3 Dec 2015 18:48

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.8	16.7	25.1
153	14.9	11.2	16.8

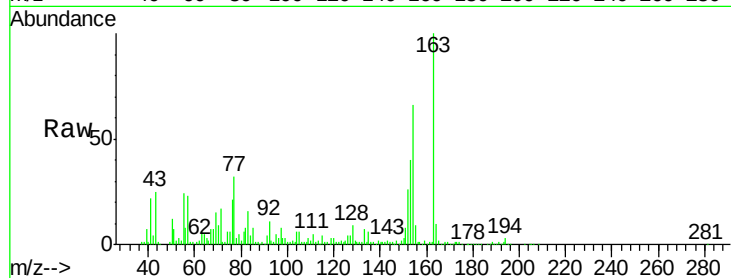




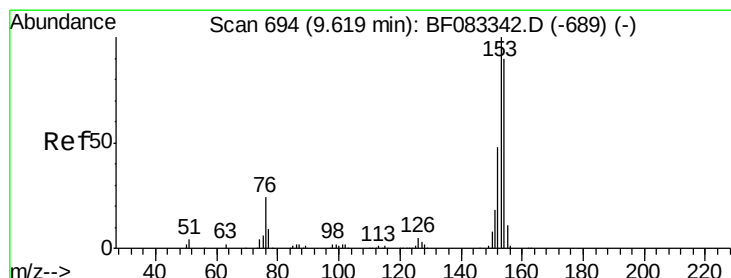
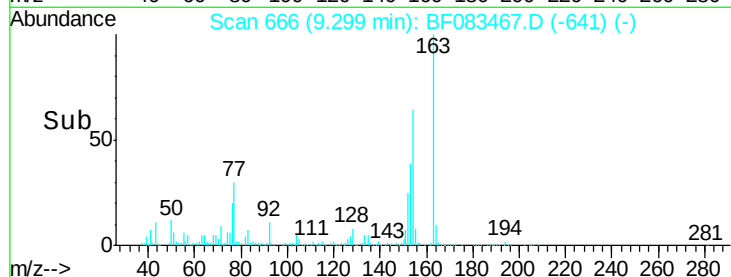
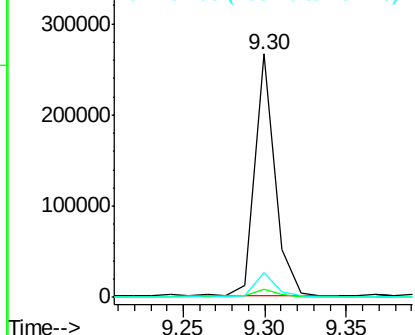
#49
Dimethylphthalate
Concen: 8.33 ng
RT: 9.30 min Scan# 666
Delta R.T. -0.01 min
Lab File: BF083467.D
Acq: 3 Dec 2015 18:48

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)

Tot Ion:163 Resp: 225680
Ion Ratio Lower Upper
163 100
194 3.2 2.7 4.1
164 10.0 8.8 13.2

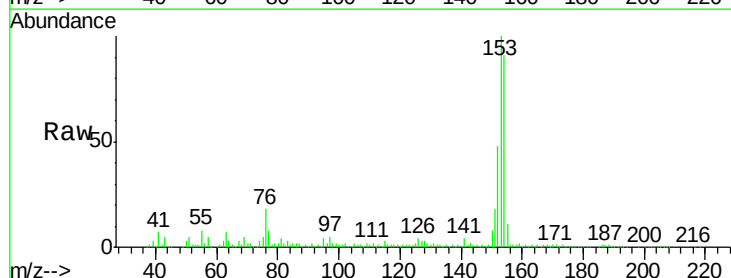


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

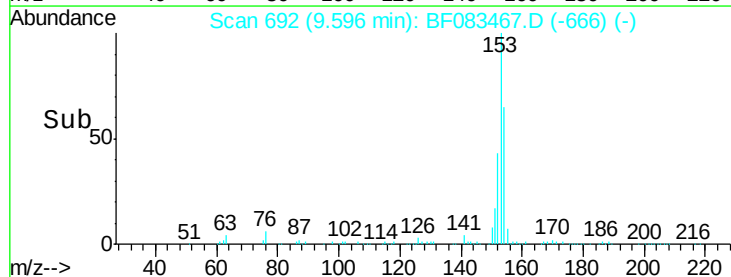
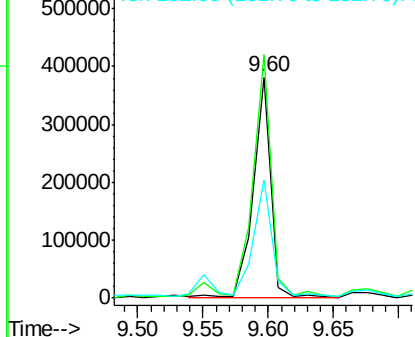


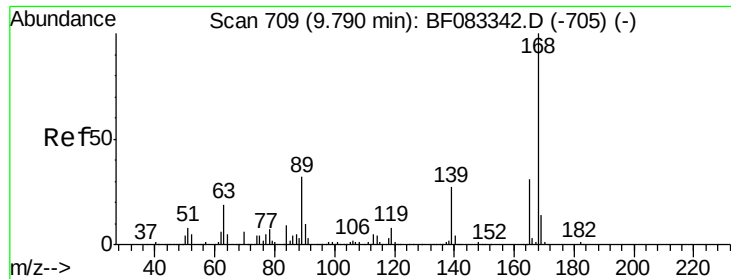
#51
Acenaphthene
Concen: 16.80 ng
RT: 9.60 min Scan# 692
Delta R.T. -0.00 min
Lab File: BF083467.D
Acq: 3 Dec 2015 18:48

Tgt Ion:154 Resp: 351040
Ion Ratio Lower Upper
154 100
153 110.3 89.3 133.9
152 53.4 42.5 63.7



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 6.15 ng

RT: 9.77 min Scan# 707

Delta R.T. -0.00 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)

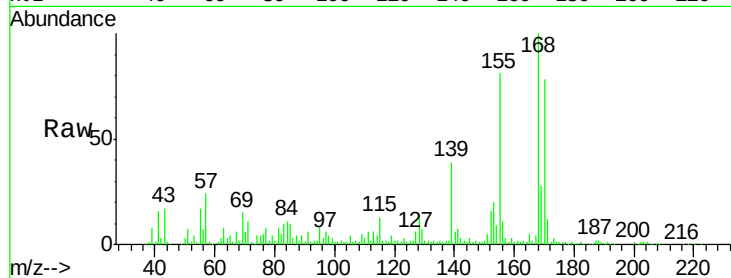
Tot Ion:168 Resp: 188282

Ion Ratio Lower Upper

168 100

139 38.5 32.7 49.1

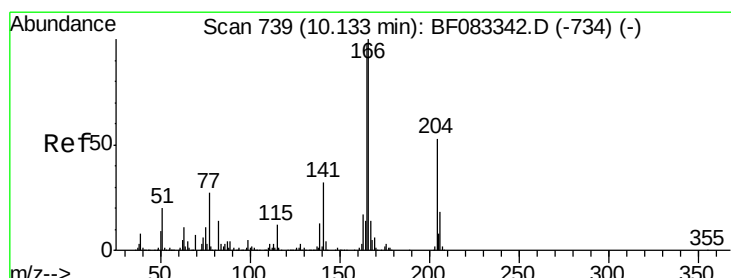
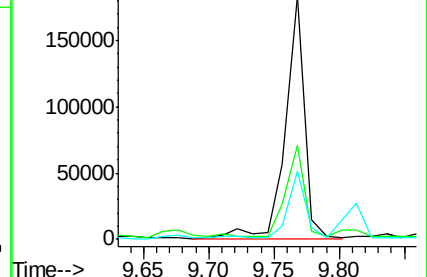
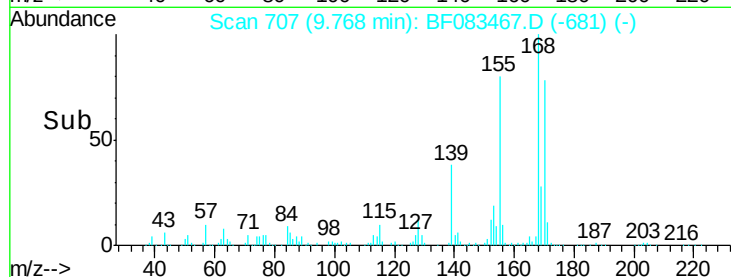
169 27.9 11.1 16.7#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 56.65 ng

RT: 10.11 min Scan# 737

Delta R.T. -0.00 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

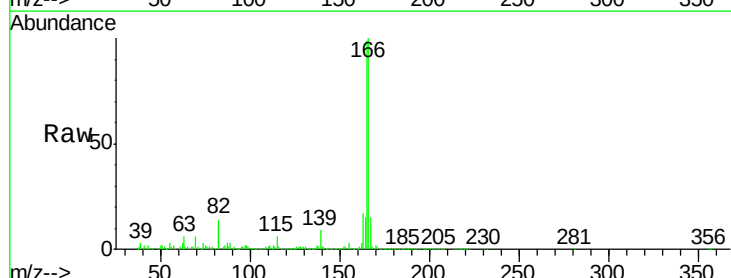
Tgt Ion:166 Resp: 1369672

Ion Ratio Lower Upper

166 100

165 99.3 78.3 117.5

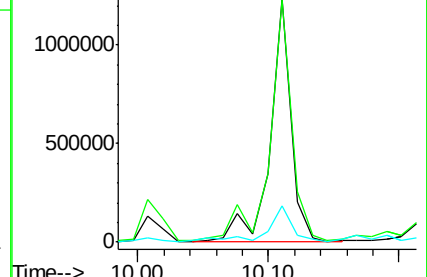
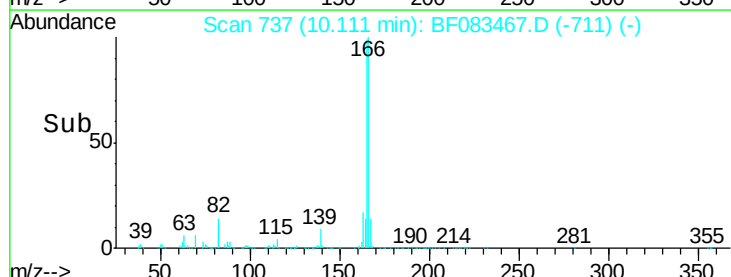
167 14.7 11.1 16.7

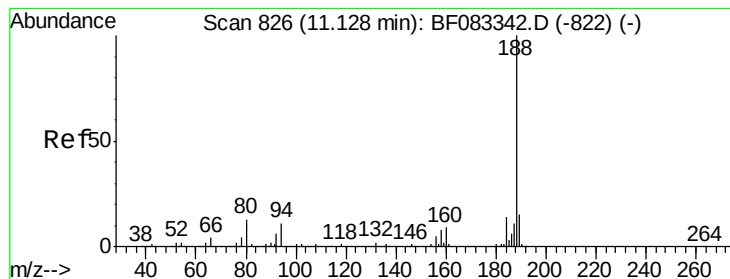


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.11 min Scan# 824

Delta R.T. 0.01 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)

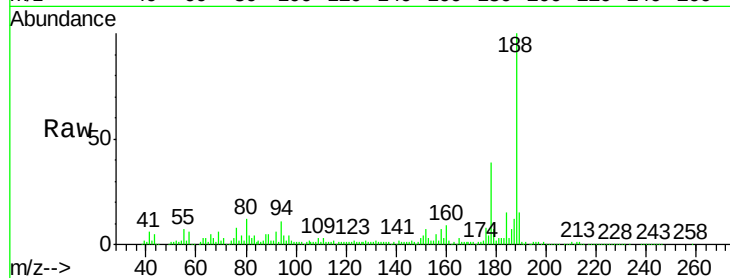
Tot Ion:188 Resp: 543018

Ion Ratio Lower Upper

188 100

94 10.6 8.7 13.1

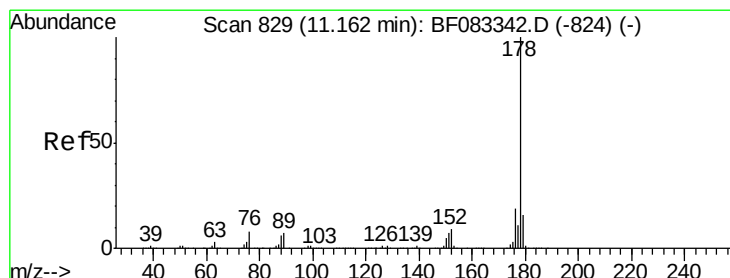
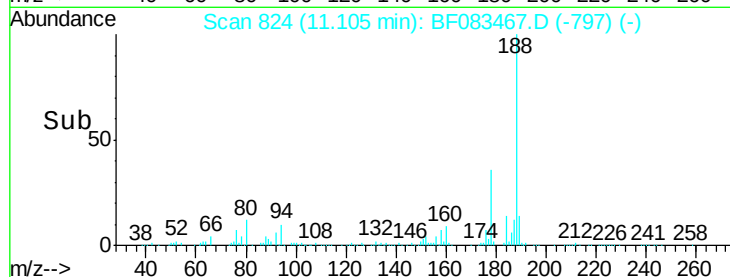
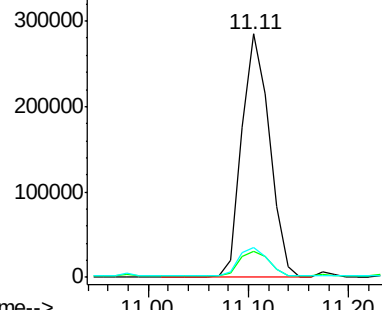
80 12.5 10.3 15.5



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: 252.41 ng m

RT: 11.16 min Scan# 829

Delta R.T. 0.03 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

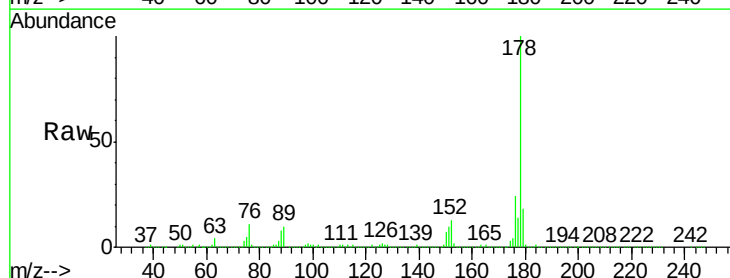
Tgt Ion:178 Resp: 8111296

Ion Ratio Lower Upper

178 100

176 23.9 15.3 22.9#

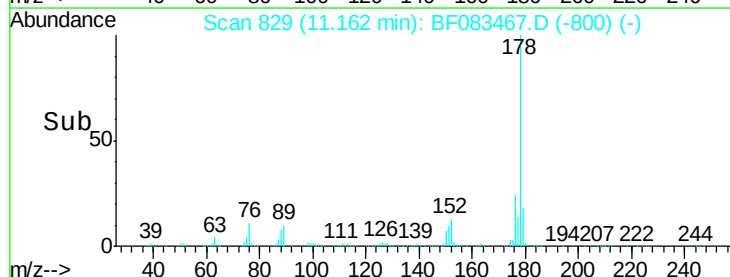
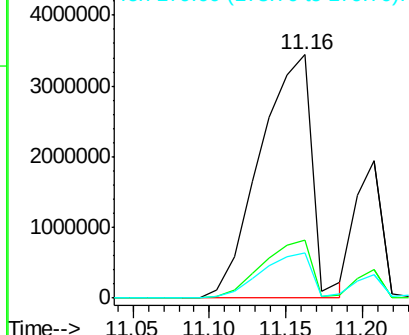
179 18.3 12.4 18.6

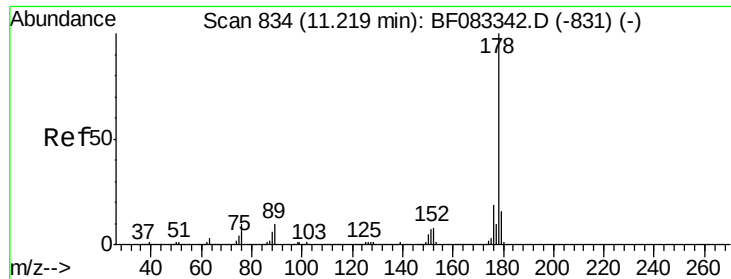


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

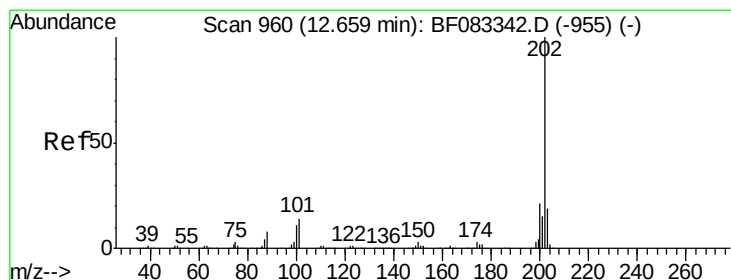
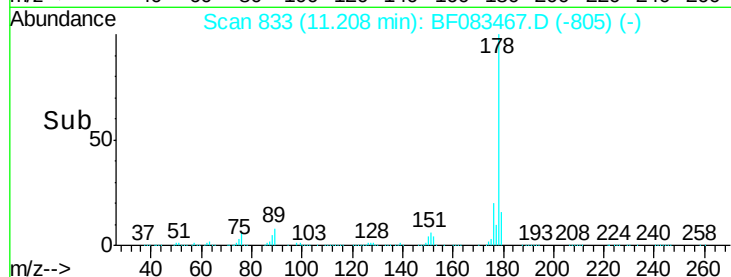
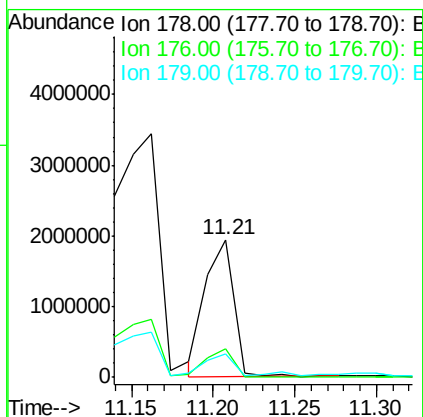
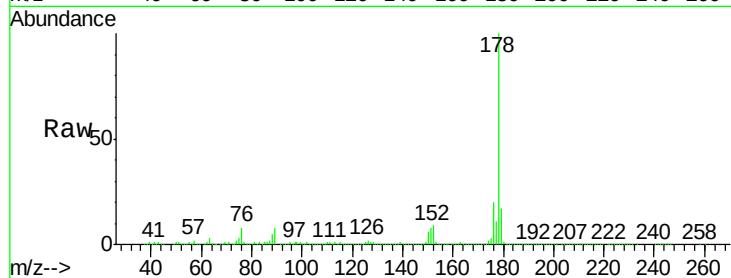




#71
 Anthracene
 Concen: 73.19 ng
 RT: 11.21 min Scan# 833
 Delta R.T. 0.02 min
 Lab File: BF083467.D
 Acq: 3 Dec 2015 18:48

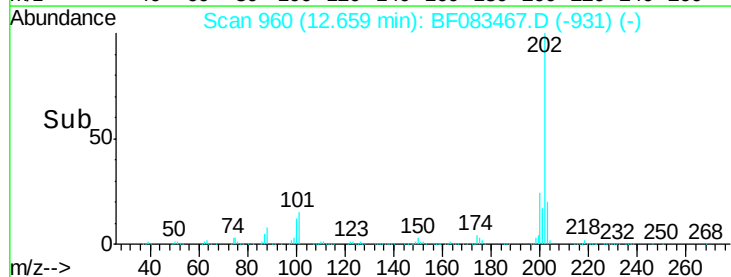
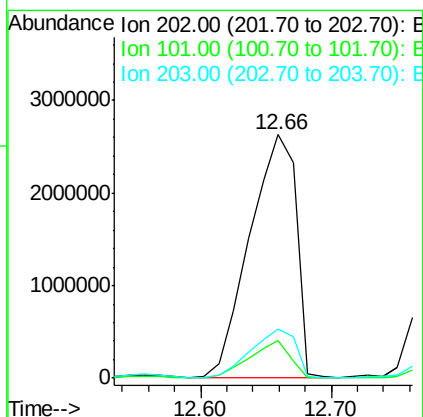
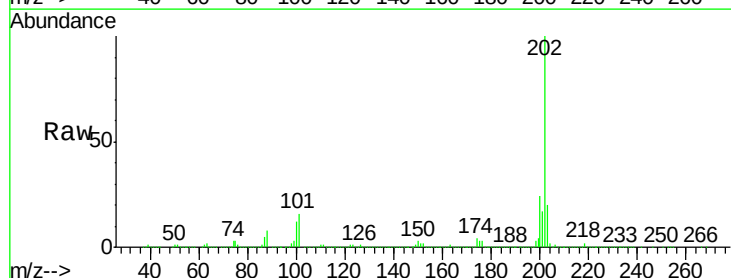
Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)

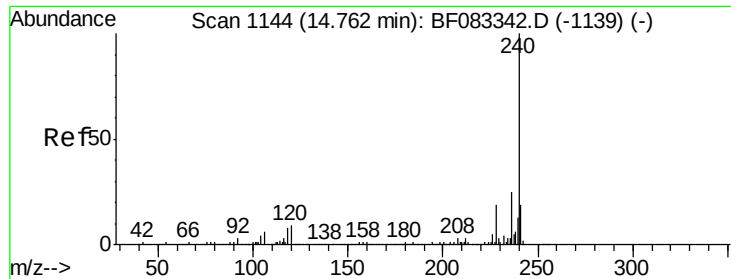
Tot Ion:178 Resp: 2367753
 Ion Ratio Lower Upper
 178 100
 176 20.4 15.6 23.4
 179 16.9 12.8 19.2



#74
 Fluoranthene
 Concen: 195.87 ng
 RT: 12.66 min Scan# 960
 Delta R.T. 0.03 min
 Lab File: BF083467.D
 Acq: 3 Dec 2015 18:48

Tgt Ion:202 Resp: 6524408
 Ion Ratio Lower Upper
 202 100
 101 15.6 0.0 34.5
 203 20.3 0.0 38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.74 min Scan# 1142

Delta R.T. 0.02 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)

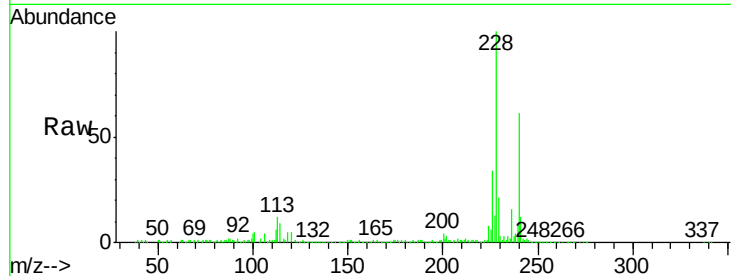
Tot Ion:240 Resp: 365023

Ion Ratio Lower Upper

240 100

120 8.9 6.9 10.3

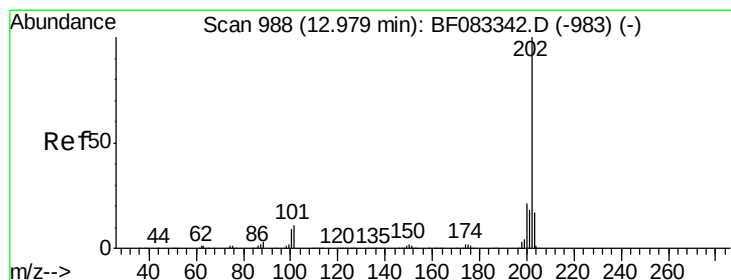
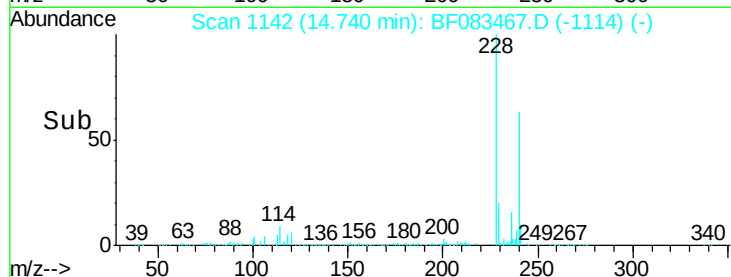
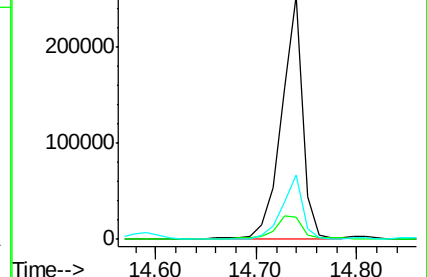
236 26.4 19.8 29.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 331.52 ng

RT: 12.99 min Scan# 989

Delta R.T. 0.06 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

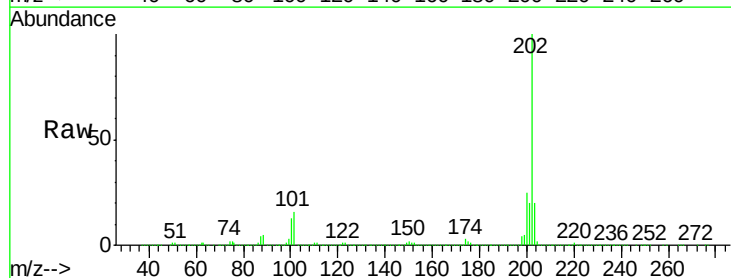
Tgt Ion:202 Resp: 8451102

Ion Ratio Lower Upper

202 100

200 24.9 16.9 25.3

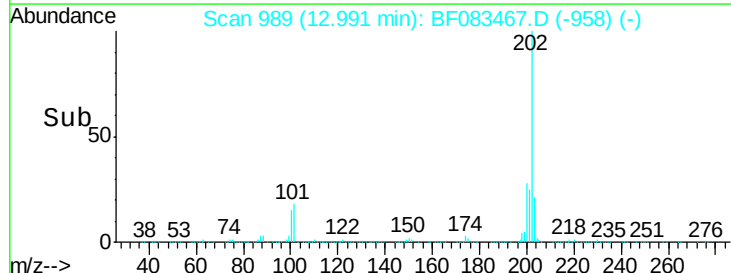
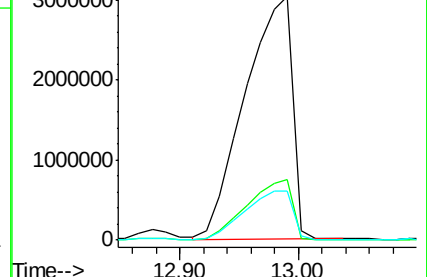
203 20.1 13.9 20.9

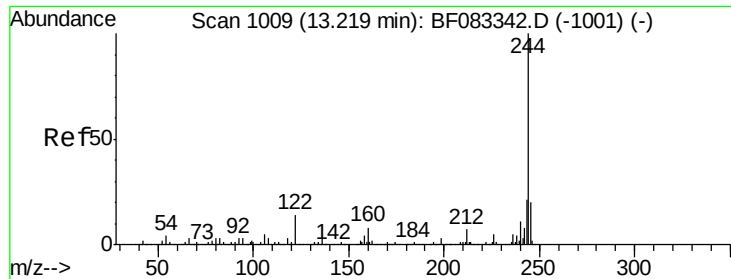


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 103.91 ng

RT: 13.20 min Scan# 1007

Delta R.T. 0.01 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)

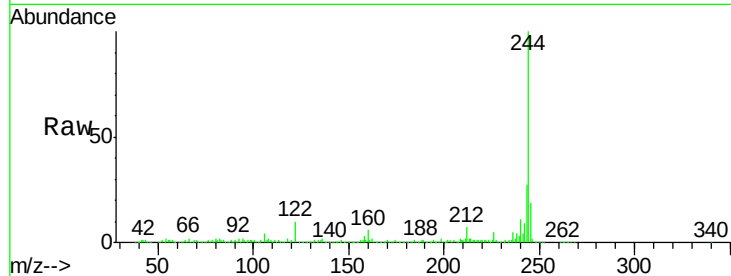
Tot Ion:244 Resp: 1590411

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

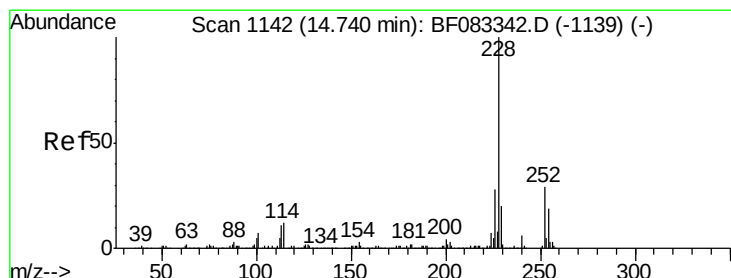
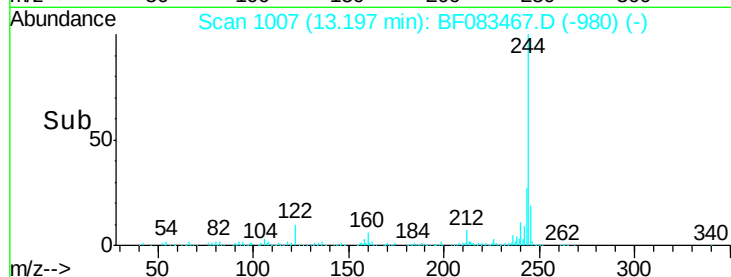
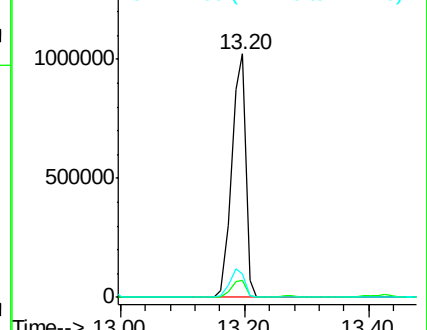
122 9.8 11.0 16.4#



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: 139.75 ng m

RT: 14.73 min Scan# 1141

Delta R.T. 0.02 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

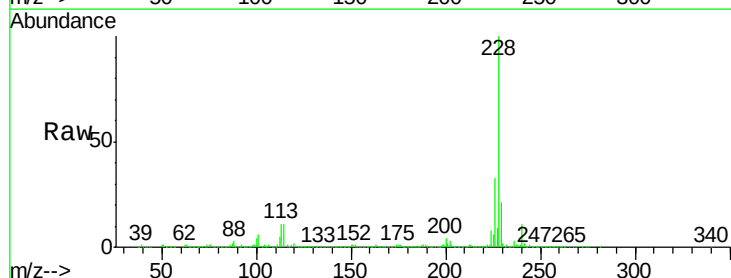
Tgt Ion:228 Resp: 3125353

Ion Ratio Lower Upper

228 100

226 32.9 22.2 33.4

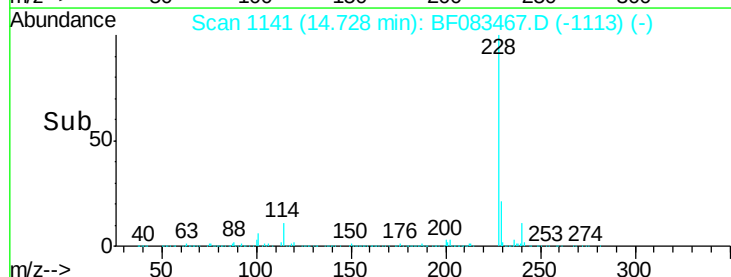
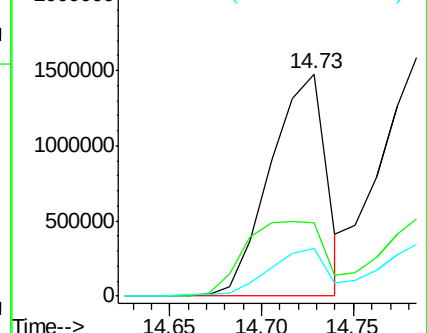
229 21.5 16.1 24.1

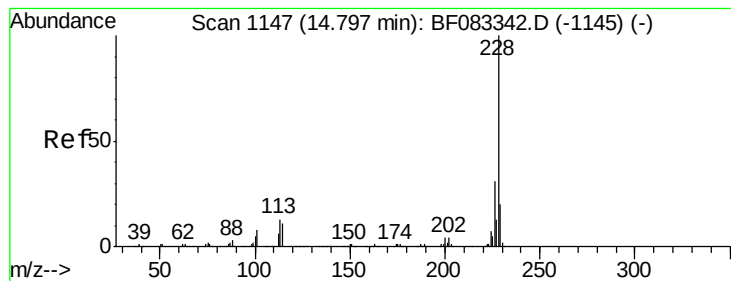


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 138.16 ng/mL

RT: 14.79 min Scan# 1146

Delta R.T. 0.02 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

Instrument :

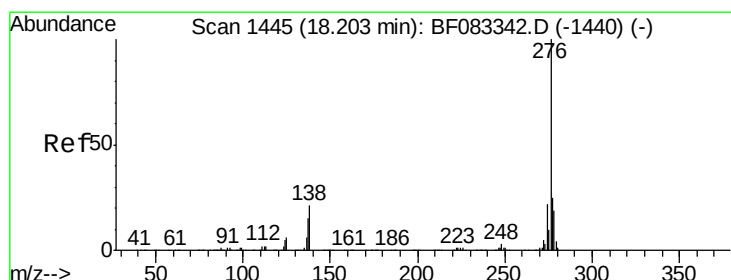
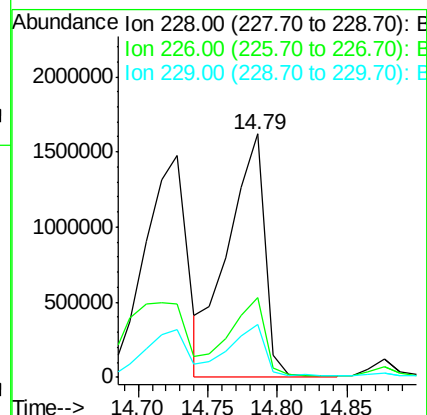
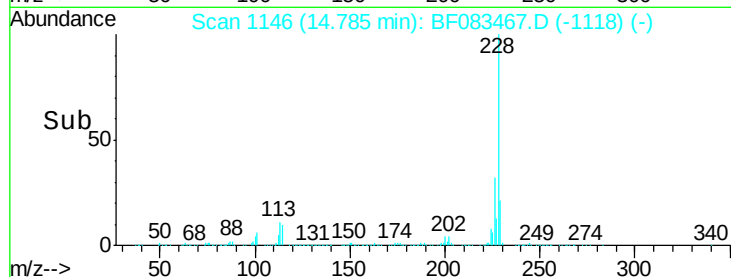
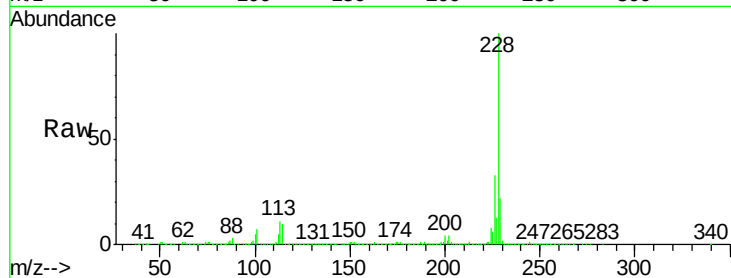
BNA_F

ClientSampleId :

SB-P3WC-10(0-6)

Tot Ion:228 Resp: 2985147

Ion	Ratio	Lower	Upper
228	100		
226	32.6	24.6	37.0
229	21.7	16.2	24.2



#85

Indeno(1,2,3-cd)pyrene

Concen: 115.51 ng/mL

RT: 18.19 min Scan# 1444

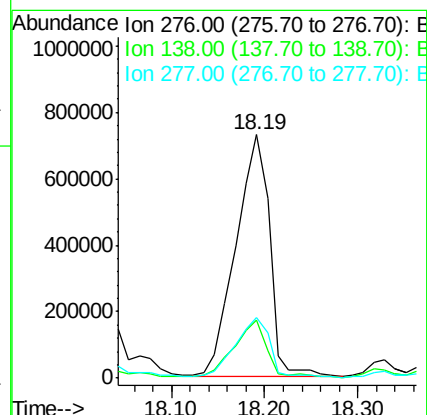
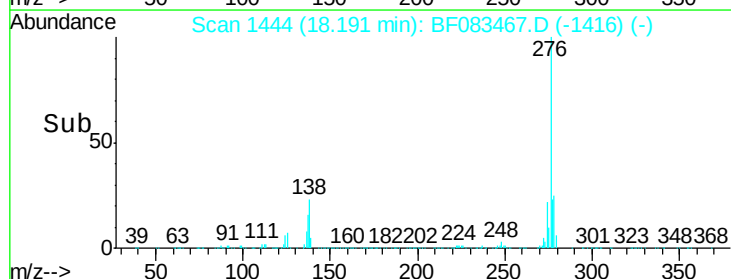
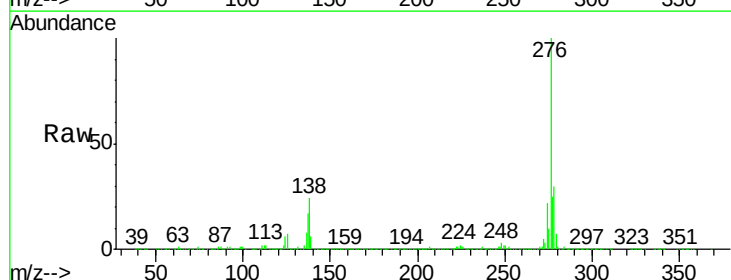
Delta R.T. 0.02 min

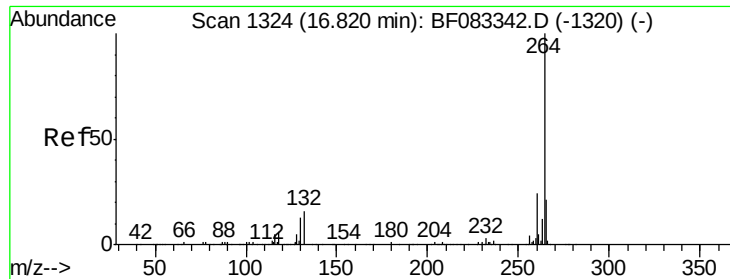
Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

Tgt Ion:276 Resp: 1817648

Ion	Ratio	Lower	Upper
276	100		
138	21.5	21.2	31.8
277	25.1	20.0	30.0



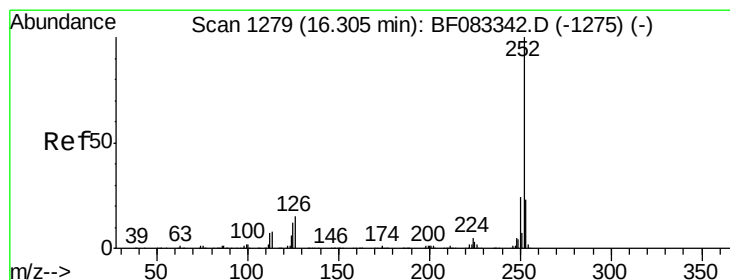
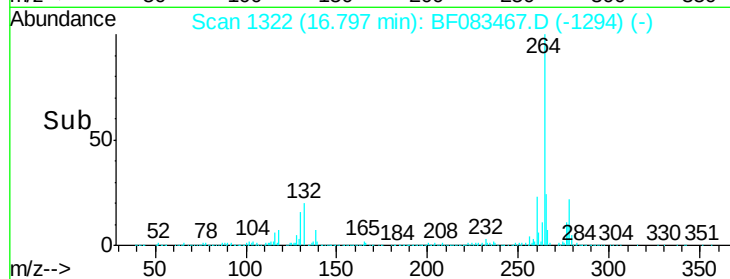
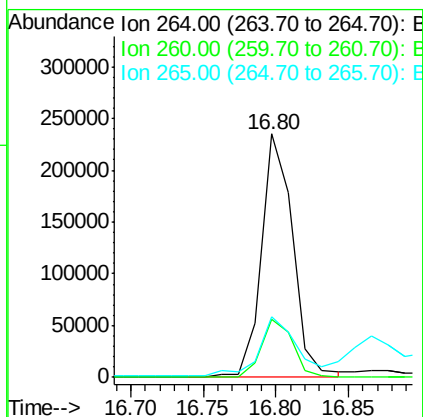
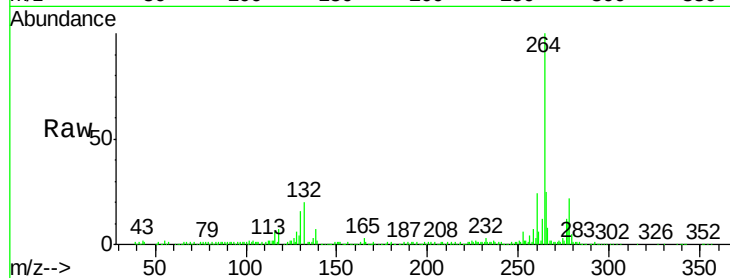


#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.80 min Scan# 1322
Delta R.T. 0.02 min
Lab File: BF083467.D
Acq: 3 Dec 2015 18:48

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)

Tot Ion:264 Resp: 346613

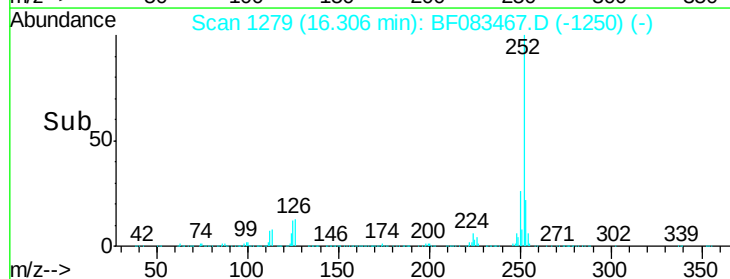
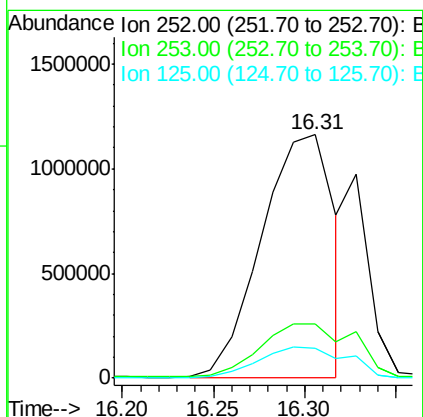
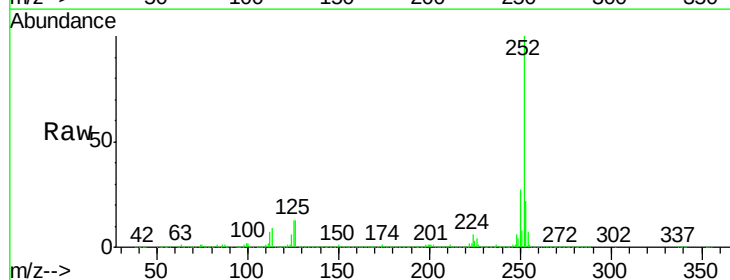
Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.0	28.4
265	24.6	16.8	25.2

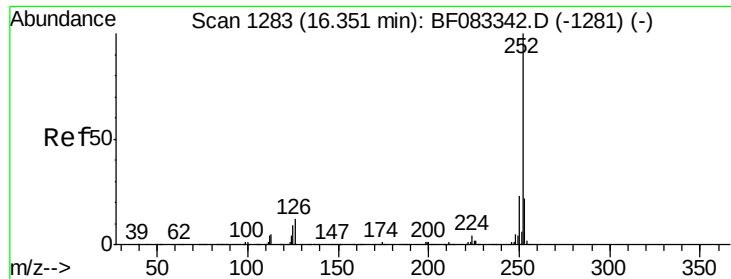


#87
Benzo(b)fluoranthene
Concen: 145.09 ng m
RT: 16.31 min Scan# 1279
Delta R.T. 0.03 min
Lab File: BF083467.D
Acq: 3 Dec 2015 18:48

Tgt Ion:252 Resp: 3226947

Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.4	27.6
125	12.5	9.6	14.4

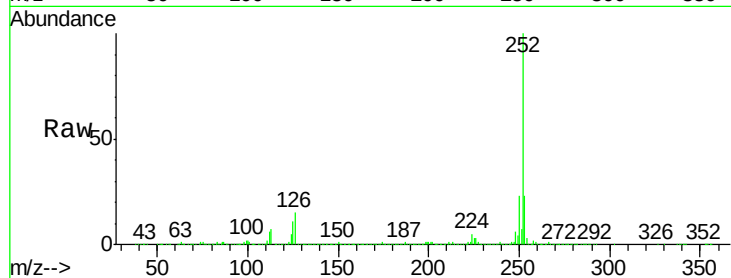




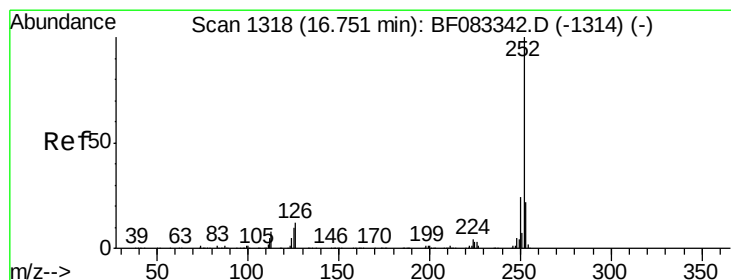
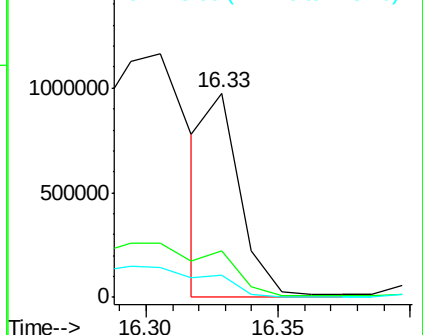
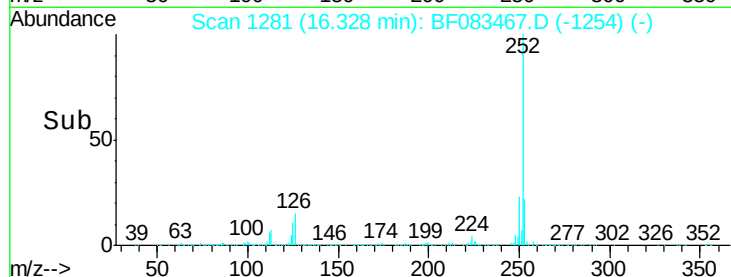
#88
Benzo(k)fluoranthene
Concen: 40.87 ng m
RT: 16.33 min Scan# 1281
Delta R.T. 0.01 min
Lab File: BF083467.D
Acq: 3 Dec 2015 18:48

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)

Tot Ion:252 Resp: 858222
Ion Ratio Lower Upper
252 100
253 22.5 17.4 26.0
125 10.8 7.5 11.3

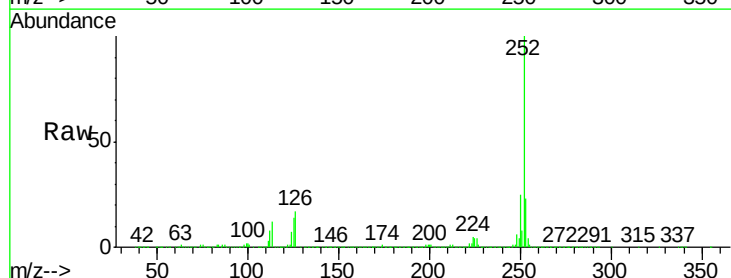


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

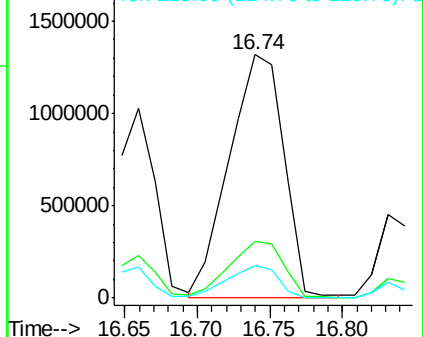
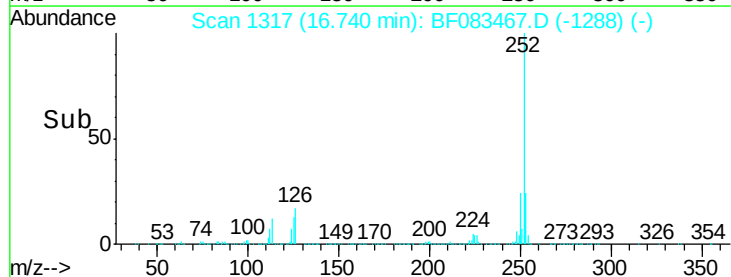


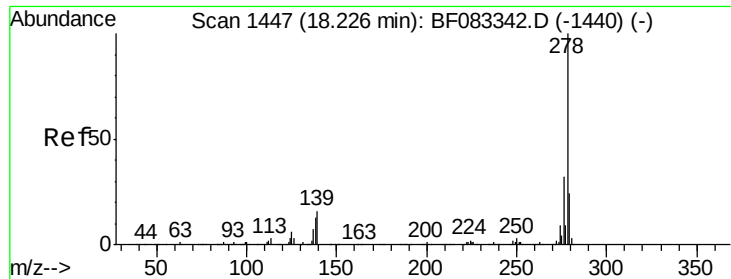
#89
Benzo(a)pyrene
Concen: 179.32 ng
RT: 16.74 min Scan# 1317
Delta R.T. 0.03 min
Lab File: BF083467.D
Acq: 3 Dec 2015 18:48

Tgt Ion:252 Resp: 3425576
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 13.5 7.8 11.8#



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: 23.01 ng/mL

RT: 18.20 min Scan# 1445

Delta R.T. 0.02 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)

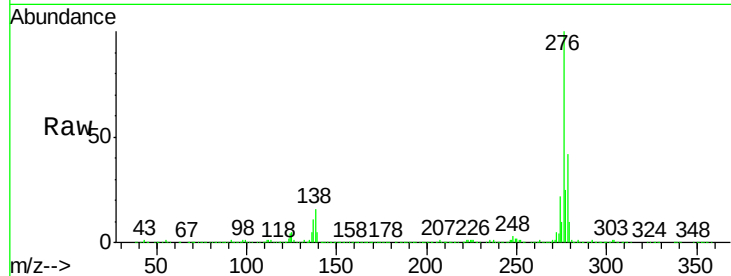
Tot Ion:278 Resp: 383013

Ion Ratio Lower Upper

278 100

139 11.4 13.1 19.7#

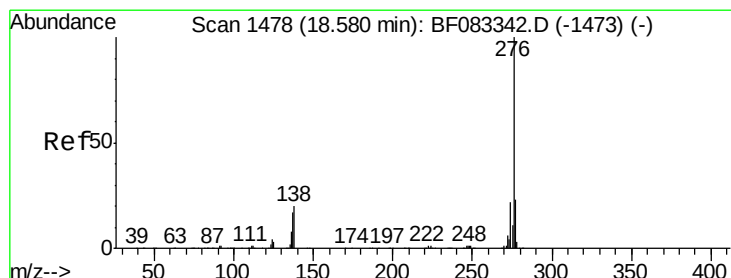
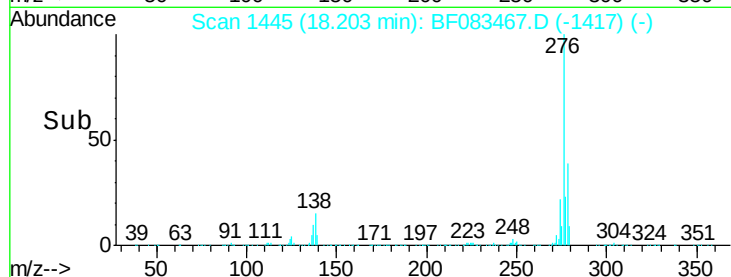
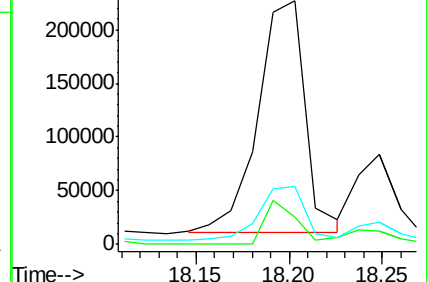
279 24.0 19.2 28.8



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: 125.98 ng/mL

RT: 18.58 min Scan# 1478

Delta R.T. 0.05 min

Lab File: BF083467.D

Acq: 3 Dec 2015 18:48

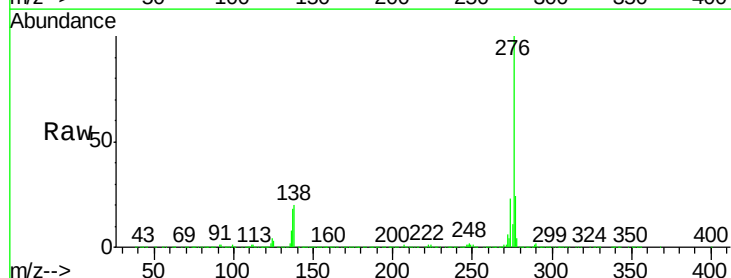
Tgt Ion:276 Resp: 2058074

Ion Ratio Lower Upper

276 100

277 24.3 18.6 28.0

138 20.4 16.1 24.1



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

