

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
 Data File : BF083477.D
 Acq On : 3 Dec 2015 23:53
 Operator : UM/IZ
 Sample : G4617-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-08

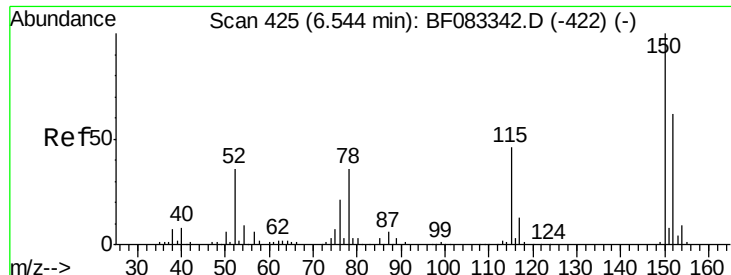
Quant Time: Dec 04 02:17:36 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 01 01:17:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.53	152	158641m	20.00	ng	-0.01
21) Naphthalene-d8	7.81	136	604046	20.00	ng	-0.02
38) Acenaphthene-d10	9.56	164	311675	20.00	ng	-0.02
63) Phenanthrene-d10	11.09	188	506994	20.00	ng	-0.03
75) Chrysene-d12	14.72	240	377343	20.00	ng	-0.05
86) Perylene-d12	16.79	264	326771	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	1500367	141.92	ng	0.00
7) Phenol-d6	6.21	99	2056450	142.11	ng	-0.01
23) Nitrobenzene-d5	7.10	82	1211278	88.15	ng	-0.02
41) 2,4,6-Tribromophenol	10.35	330	326007	104.20	ng	-0.03
44) 2-Fluorobiphenyl	8.90	172	1620599	74.10	ng	-0.02
78) Terphenyl-d14	13.19	244	1236790	78.17	ng	-0.03

Target Compounds				Qvalue		
10) Phenol	6.22	94	36991	2.12	ng	80
31) Naphthalene	7.84	128	173240	5.29	ng	98
37) 2-Methylnaphthalene	8.53	142	136459	6.23	ng	99
49) Dimethylphthalate	9.30	163	397562	15.70	ng	99
54) Dibenzofuran	9.77	168	58792	2.05	ng	# 89
70) Phenanthrene	11.13	178	436932	14.56	ng	99
71) Anthracene	11.18	178	97698	3.23	ng	97
74) Fluoranthene	12.63	202	695024	22.35	ng	98
77) Pyrene	12.93	202	569210	21.60	ng	98
80) Benzo(a)anthracene	14.69	228	267909	11.59	ng	95
82) Chrysene	14.75	228	301389	13.49	ng	96
85) Indeno(1,2,3-cd)pyrene	18.16	276	139271	8.56	ng	97
87) Benzo(b)fluoranthene	16.27	252	402600m	19.20	ng	
88) Benzo(k)fluoranthene	16.31	252	82990m	4.19	ng	
89) Benzo(a)pyrene	16.71	252	225634	12.53	ng	# 96
90) Dibenzo(a,h)anthracene	18.17	278	37729m	2.40	ng	
91) Benzo(a,h,i)perylene	18.52	276	122294	7.94	ng	# 94

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

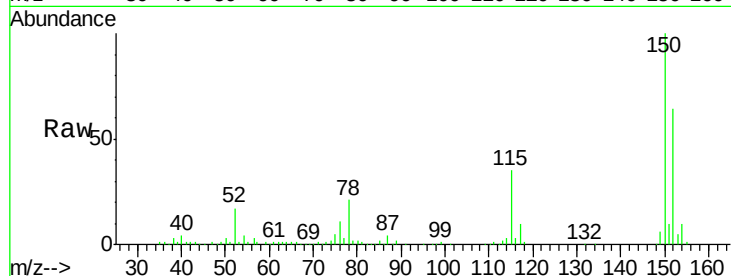


#1

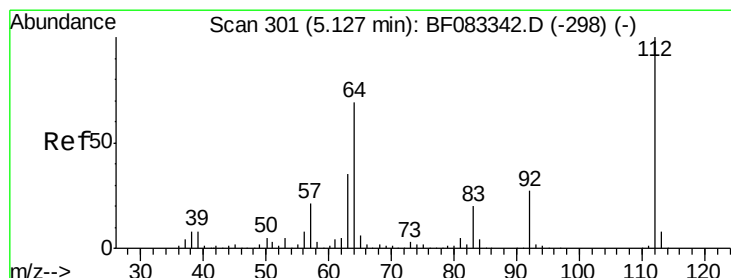
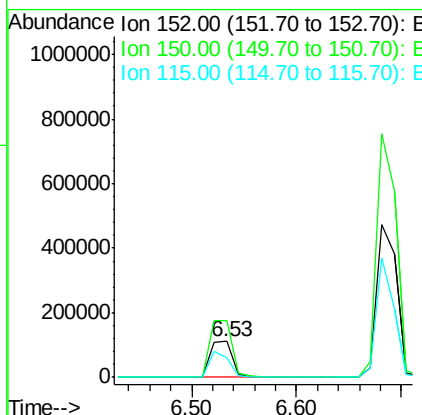
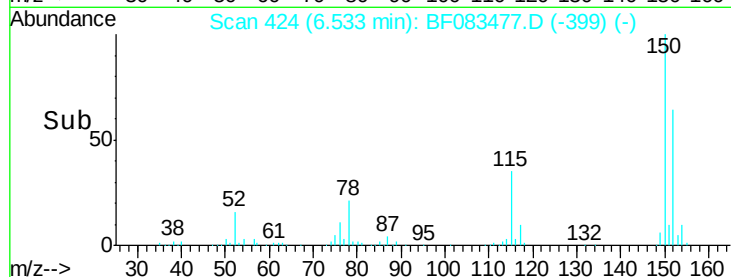
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/mL
RT: 6.53 min Scan# 424
Delta R.T. -0.01 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Instrument :
BNA_F
ClientSampleID :
SB-08

Tot Ion:152 Resp: 158641
Ion Ratio Lower Upper
152 100
150 156.8 129.8 194.8
115 54.9 59.2 88.8#



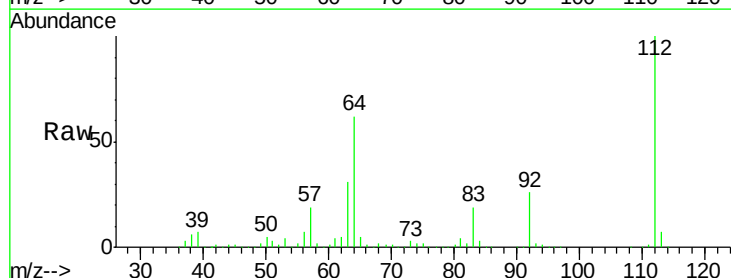
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



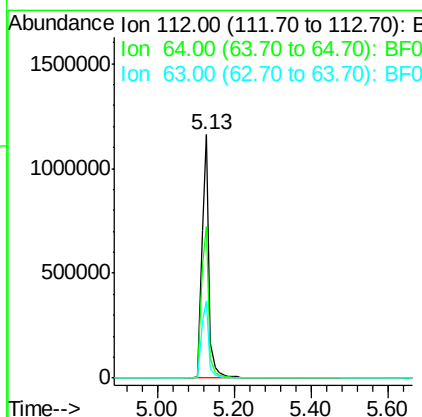
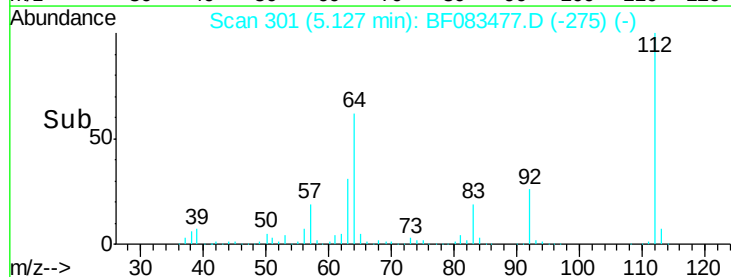
#5

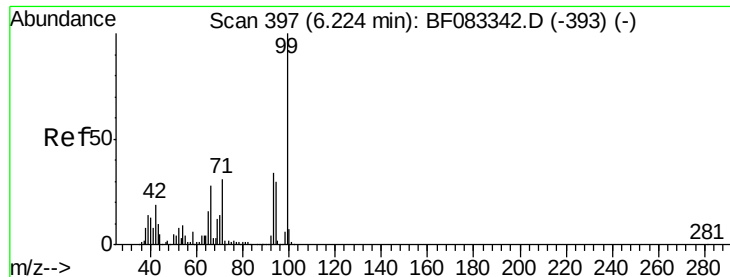
2-Fluorophenol
Concen: 141.92 ng
RT: 5.13 min Scan# 301
Delta R.T. 0.00 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Tgt Ion:112 Resp: 1500367
Ion Ratio Lower Upper
112 100
64 62.3 55.6 83.4
63 31.5 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: 142.11 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

Instrument :

BNA_F

ClientSampled :

SB-08

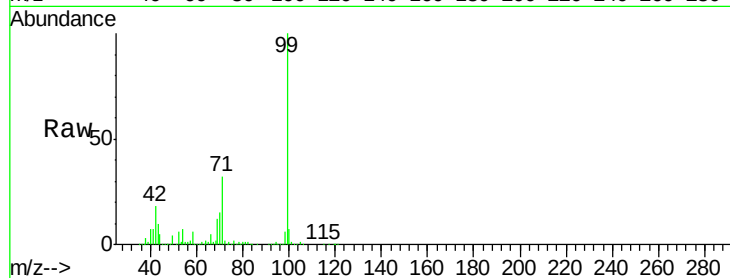
Tot Ion: 99 Resp: 2056450

Ion Ratio Lower Upper

99 100

42 18.3 14.9 22.3

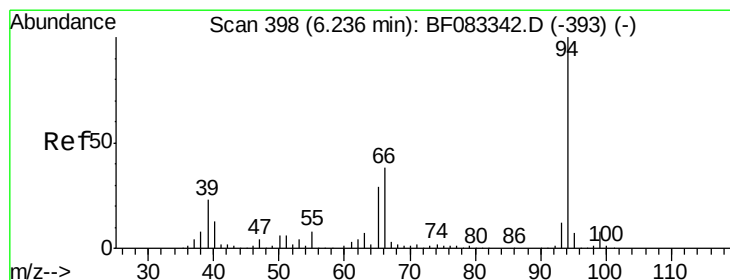
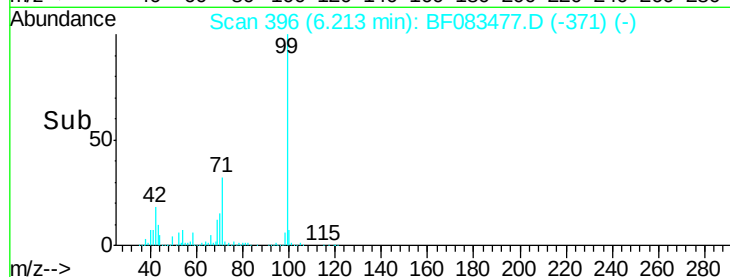
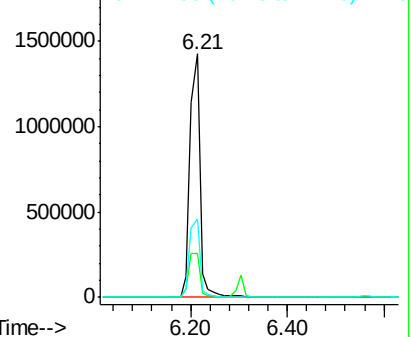
71 32.1 24.7 37.1



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



#10

Phenol

Concen: 2.12 ng

RT: 6.22 min Scan# 397

Delta R.T. -0.01 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

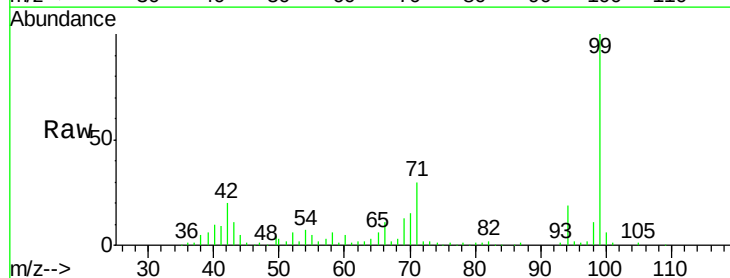
Tgt Ion: 94 Resp: 36991

Ion Ratio Lower Upper

94 100

65 34.0 9.5 49.5

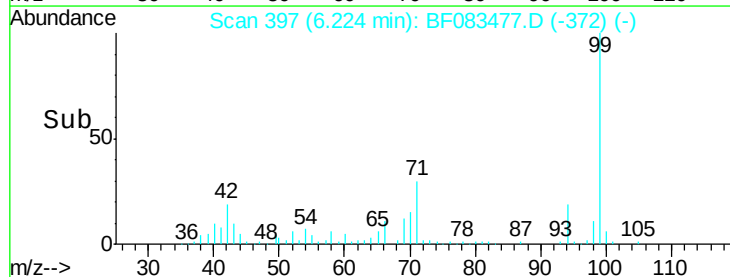
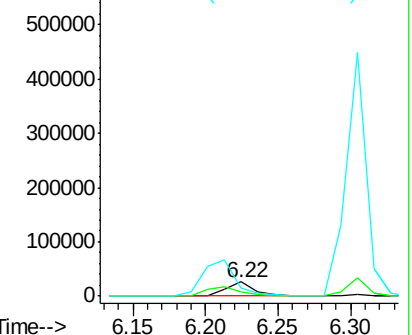
66 55.7 17.9 57.9

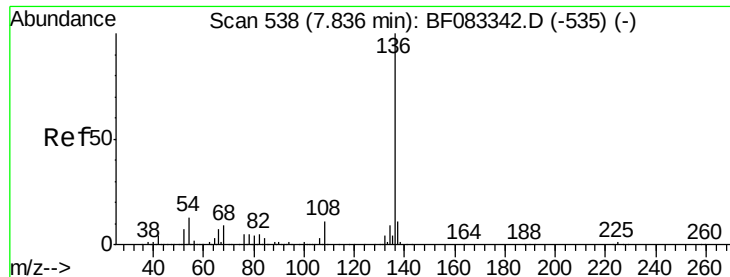


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.81 min Scan# 536

Delta R.T. -0.02 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

Instrument :

BNA_F

ClientSampleId :

SB-08

Tot Ion:136 Resp: 604046

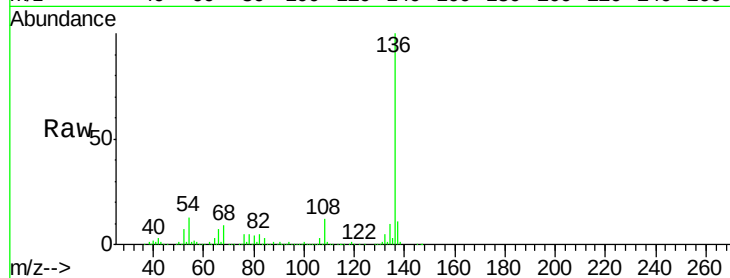
Ion Ratio Lower Upper

136 100

137 11.5 9.0 13.4

54 13.0 10.1 15.1

68 8.8 7.1 10.7

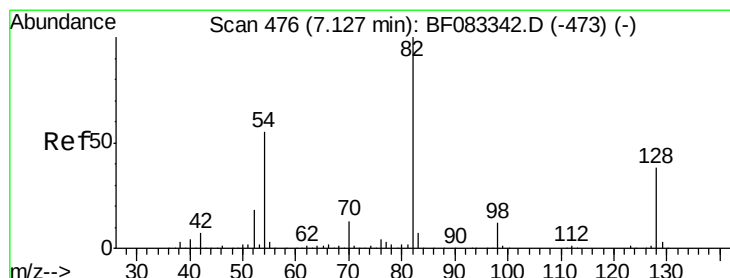
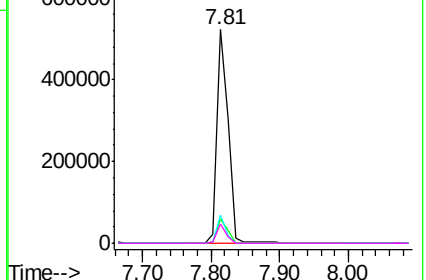
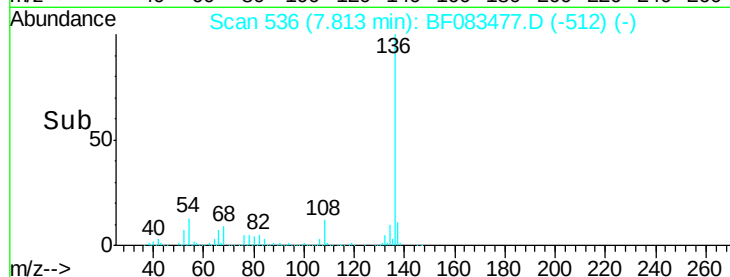


Abundance Ion 136.00 (135.70 to 136.70): E

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: 88.15 ng

RT: 7.10 min Scan# 474

Delta R.T. -0.02 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

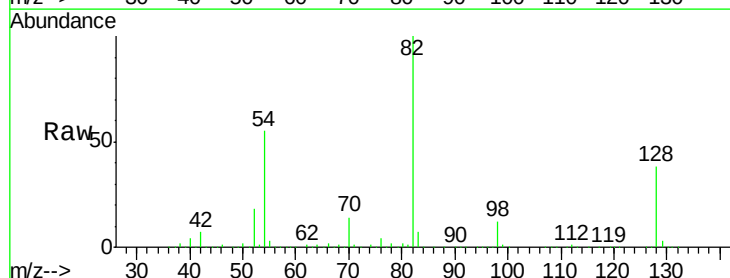
Tgt Ion: 82 Resp: 1211278

Ion Ratio Lower Upper

82 100

128 38.1 30.6 46.0

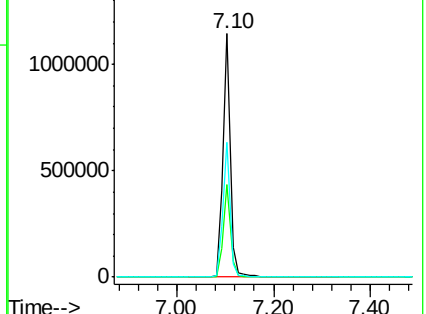
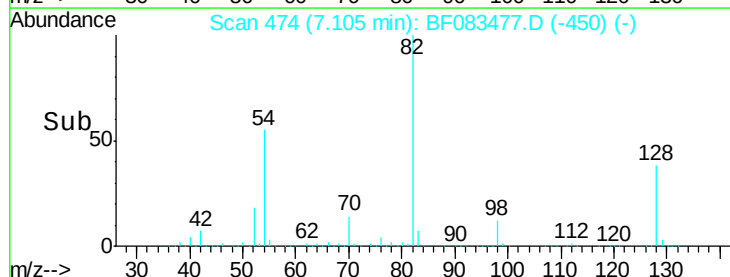
54 55.4 43.8 65.6

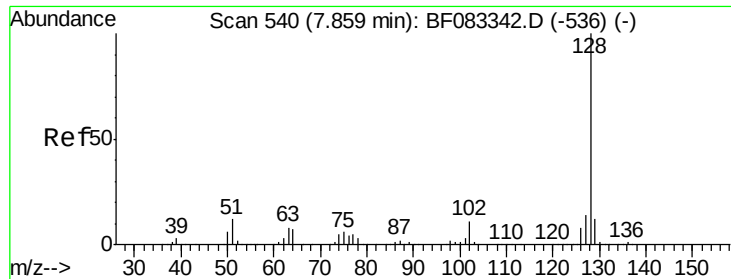


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

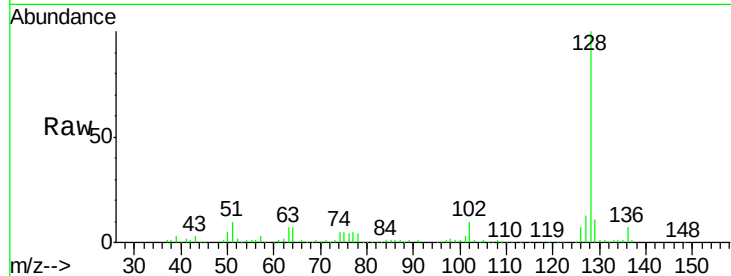




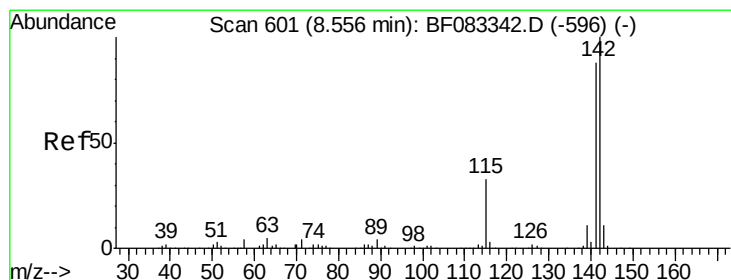
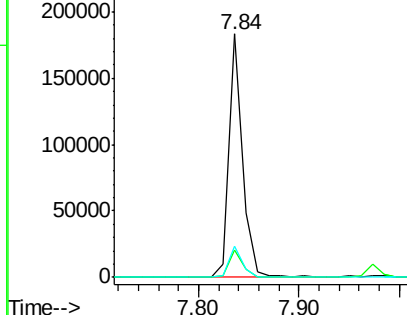
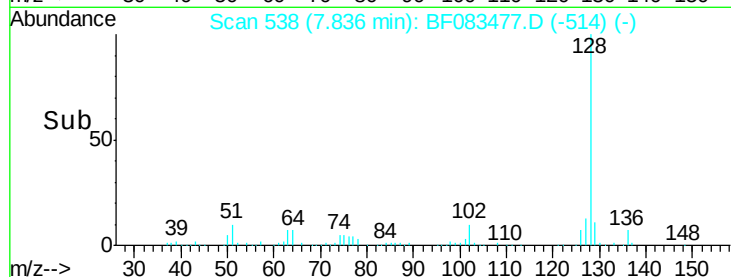
#31
Naphthalene
Concen: 5.29 ng
RT: 7.84 min Scan# 538
Delta R.T. -0.02 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Instrument :
BNA_F
ClientSampled :
SB-08

Tot Ion:128 Resp: 173240
Ion Ratio Lower Upper
128 100
129 11.3 9.7 14.5
127 12.7 11.0 16.4

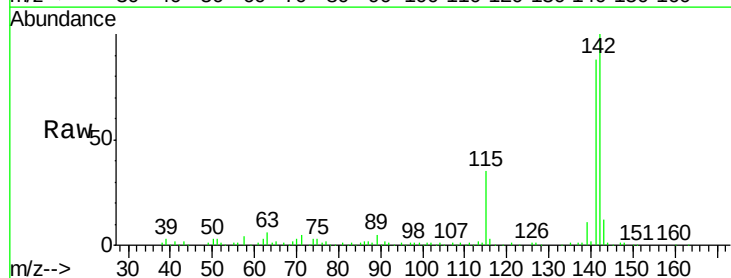


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

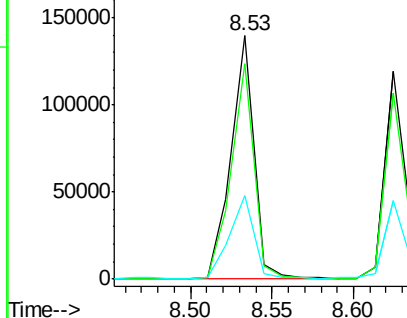
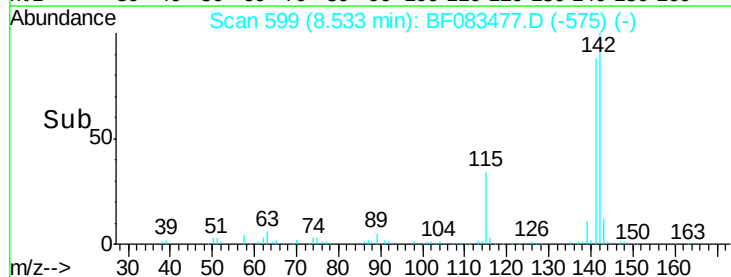


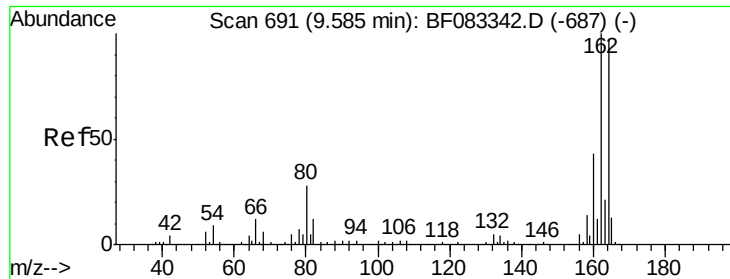
#37
2-Methylnaphthalene
Concen: 6.23 ng
RT: 8.53 min Scan# 599
Delta R.T. -0.02 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Tgt Ion:142 Resp: 136459
Ion Ratio Lower Upper
142 100
141 88.5 70.6 105.8
115 34.5 26.2 39.2



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.56 min Scan# 689

Delta R.T. -0.02 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

Instrument :

BNA_F

ClientSampleId :

SB-08

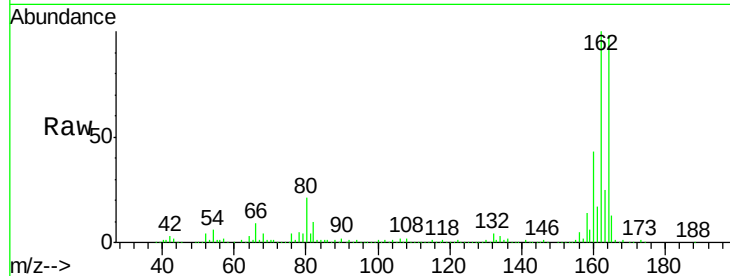
Tot Ion:164 Resp: 311675

Ion Ratio Lower Upper

164 100

162 102.4 82.6 123.8

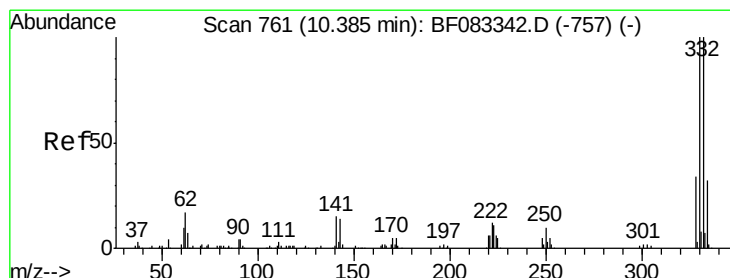
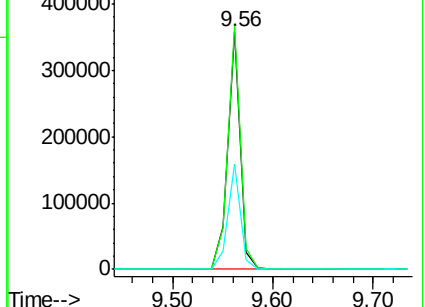
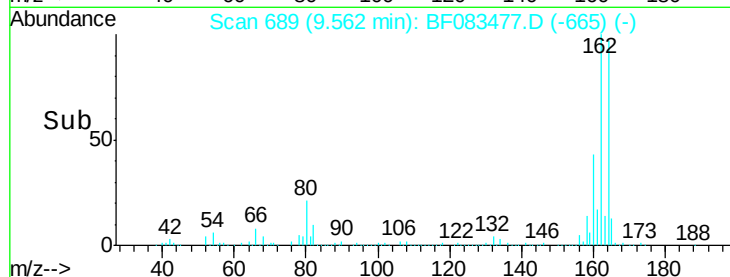
160 44.4 35.3 52.9



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: 104.20 ng

RT: 10.35 min Scan# 758

Delta R.T. -0.03 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

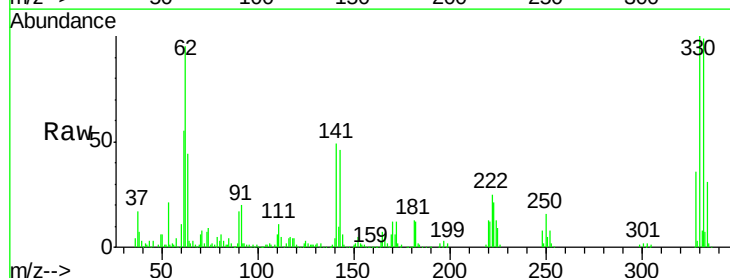
Tgt Ion:330 Resp: 326007

Ion Ratio Lower Upper

330 100

332 97.9 77.8 116.6

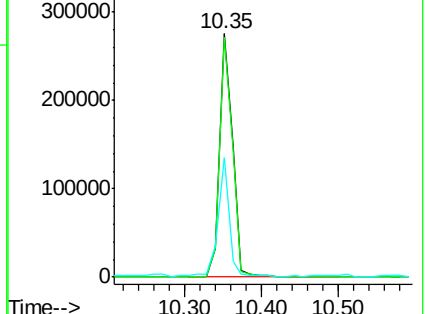
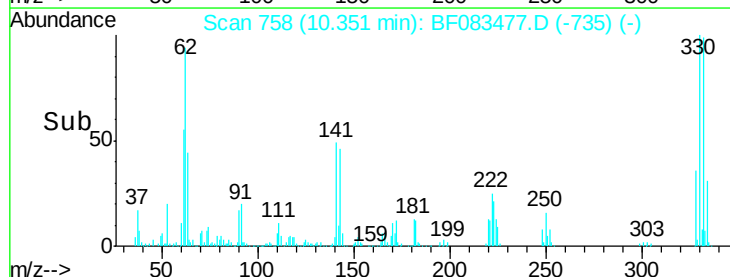
141 42.1 29.4 44.0

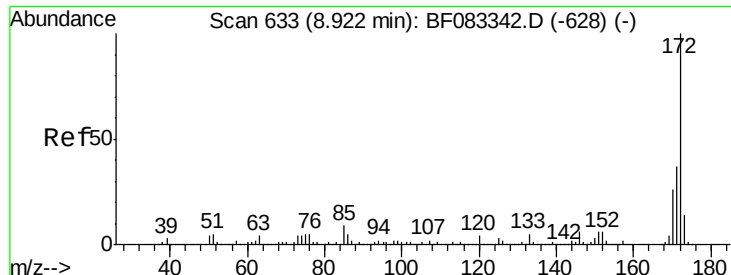


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

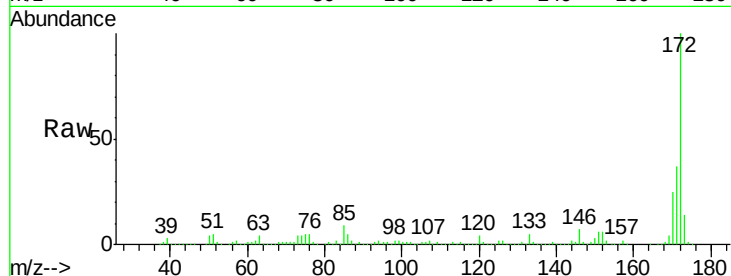




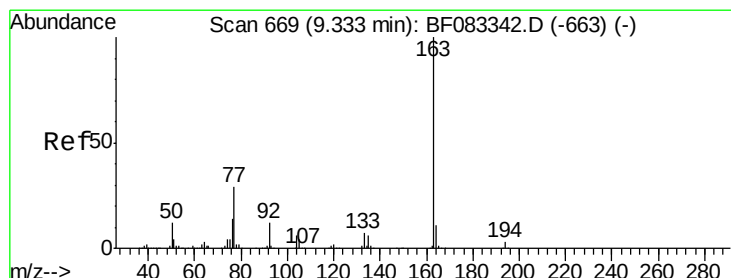
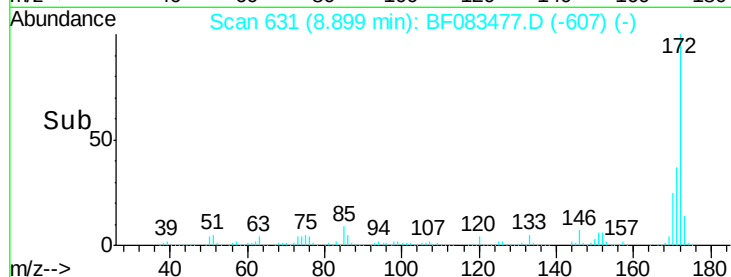
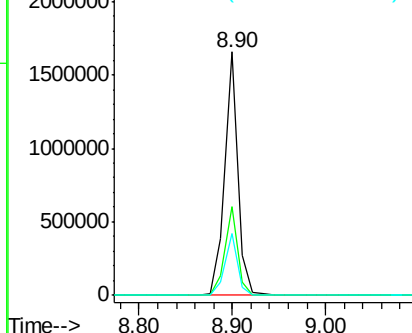
#44
2-Fluorobiphenyl
Concen: 74.10 ng
RT: 8.90 min Scan# 631
Delta R.T. -0.02 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Instrument :
BNA_F
ClientSampleId :
SB-08

Tot Ion:172 Resp: 1620599
Ion Ratio Lower Upper
172 100
171 36.7 29.4 44.0
170 25.3 20.4 30.6

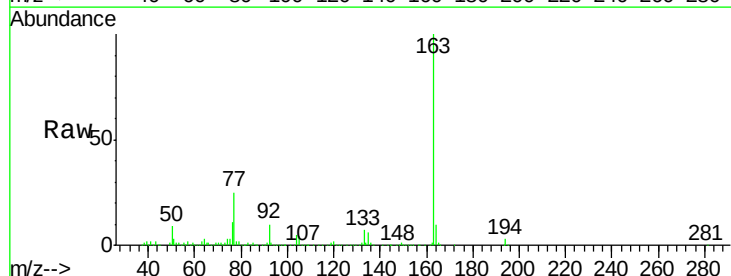


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

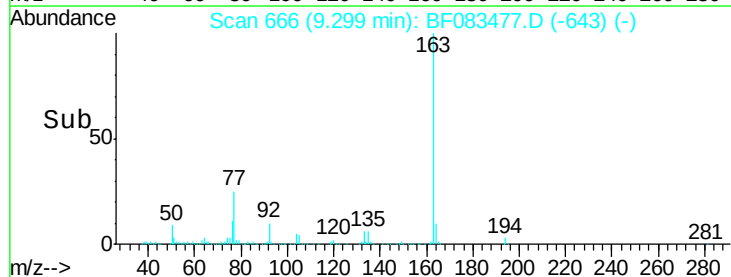
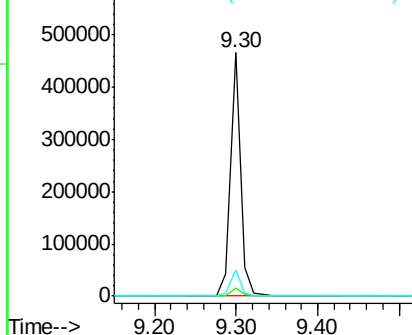


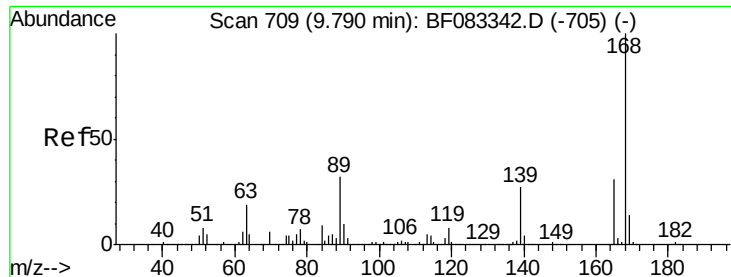
#49
Dimethylphthalate
Concen: 15.70 ng
RT: 9.30 min Scan# 666
Delta R.T. -0.03 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Tgt Ion:163 Resp: 397562
Ion Ratio Lower Upper
163 100
194 3.4 2.7 4.1
164 10.5 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

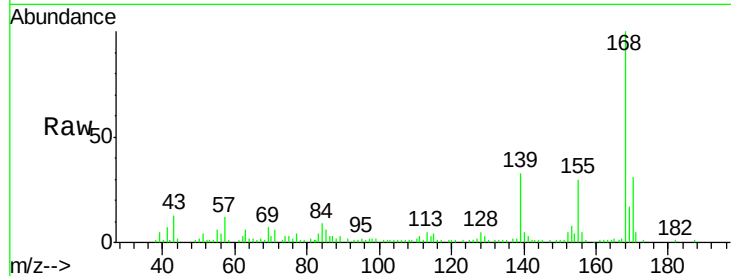




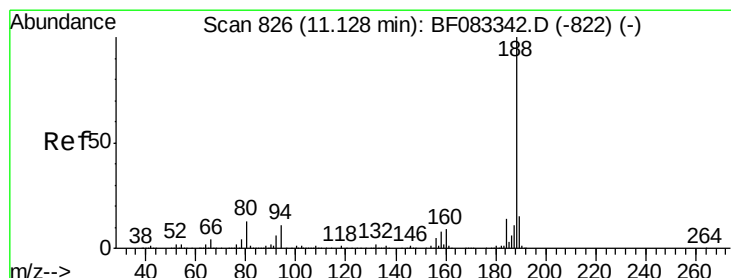
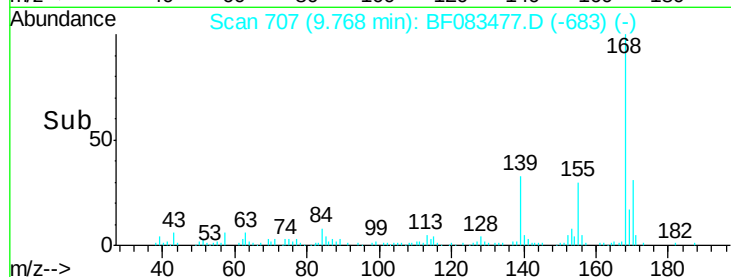
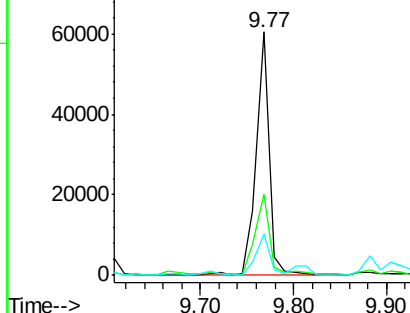
#54
Dibenzenofuran
Concen: 2.05 ng
RT: 9.77 min Scan# 707
Delta R.T. -0.02 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Instrument :
BNA_F
ClientSampled :
SB-08

Tot Ion:168 Resp: 58792
Ion Ratio Lower Upper
168 100
139 33.3 32.7 49.1
169 17.2 11.1 16.7#

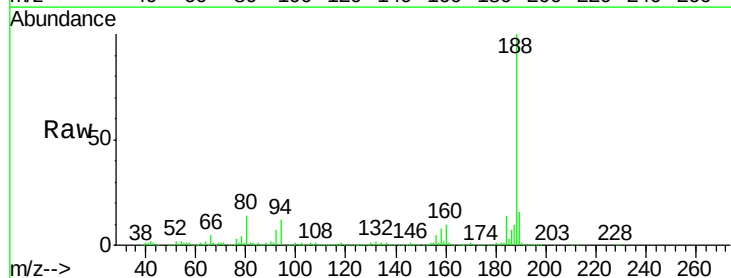


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

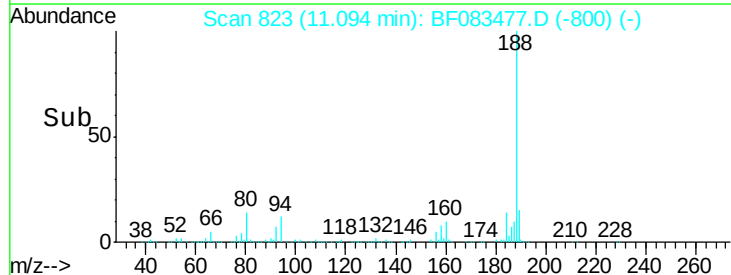
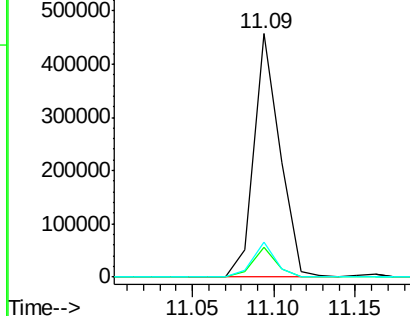


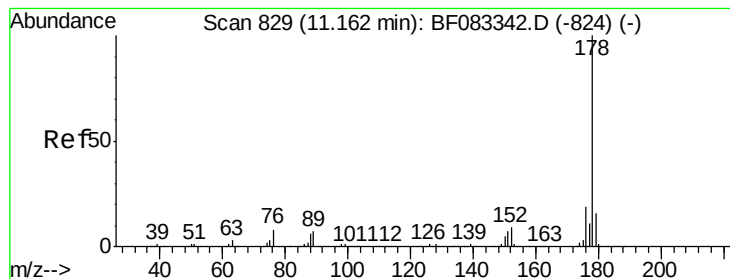
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.09 min Scan# 823
Delta R.T. -0.03 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Tgt Ion:188 Resp: 506994
Ion Ratio Lower Upper
188 100
94 12.1 8.7 13.1
80 14.2 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: 14.56 ng

RT: 11.13 min Scan# 826

Delta R.T. -0.03 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

Instrument :

BNA_F

ClientSampleId :

SB-08

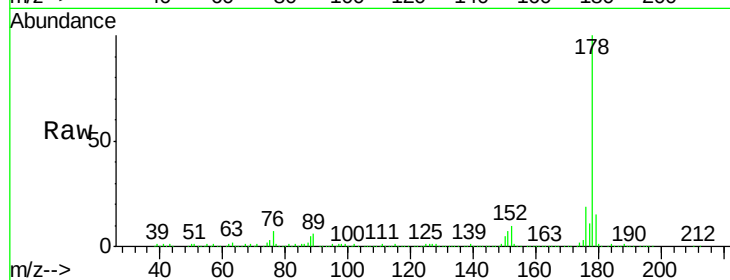
Tot Ion:178 Resp: 436932

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

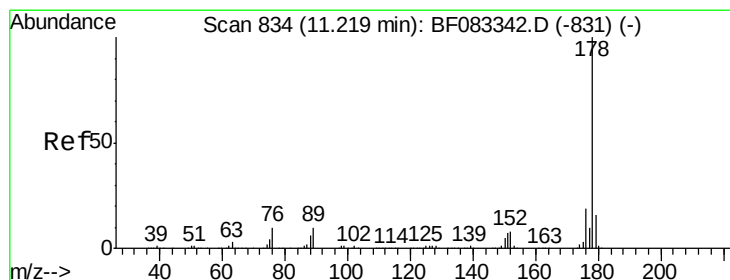
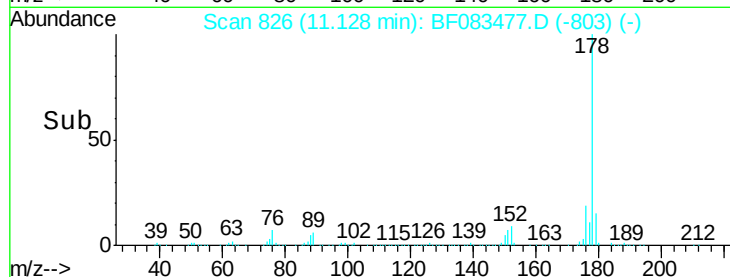
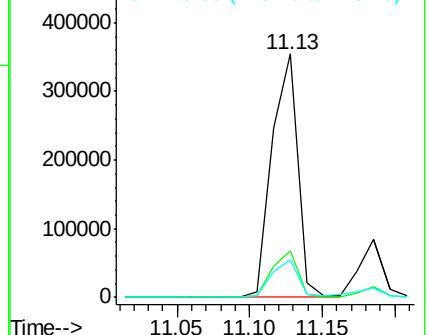
179 15.2 12.4 18.6



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: 3.23 ng

RT: 11.18 min Scan# 831

Delta R.T. -0.03 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

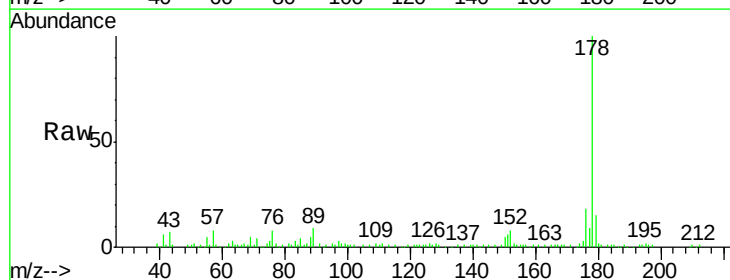
Tgt Ion:178 Resp: 97698

Ion Ratio Lower Upper

178 100

176 17.7 15.6 23.4

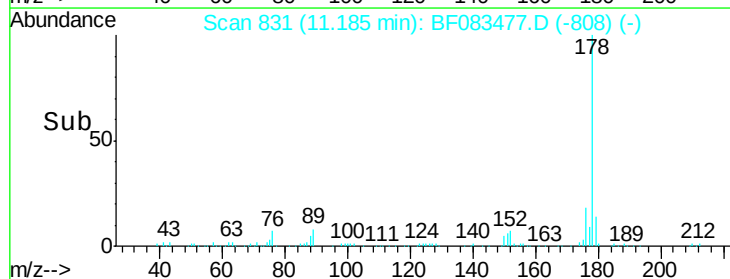
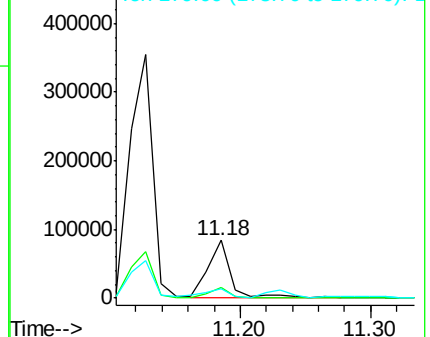
179 15.3 12.8 19.2

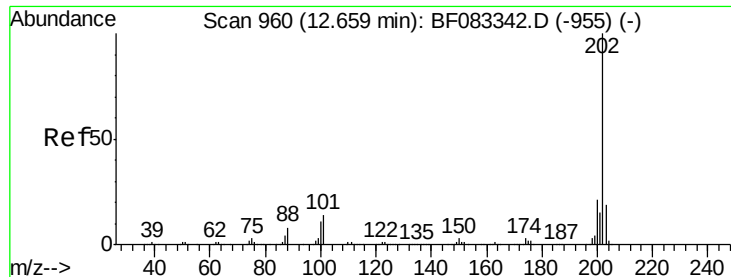


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 22.35 ng

RT: 12.63 min Scan# 957

Delta R.T. -0.03 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

Instrument :

BNA_F

ClientSampleId :

SB-08

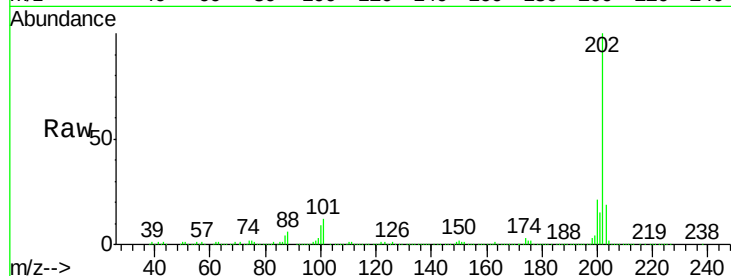
Tot Ion:202 Resp: 695024

Ion Ratio Lower Upper

202 100

101 12.5 0.0 34.5

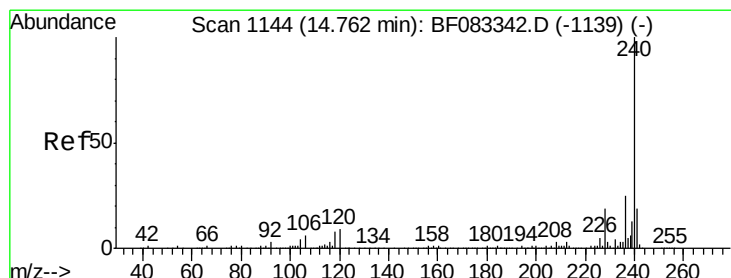
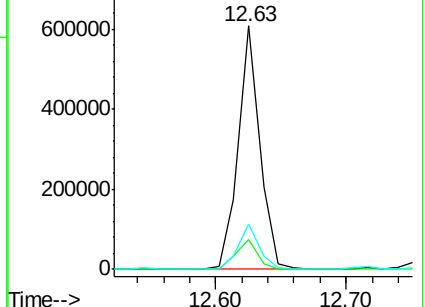
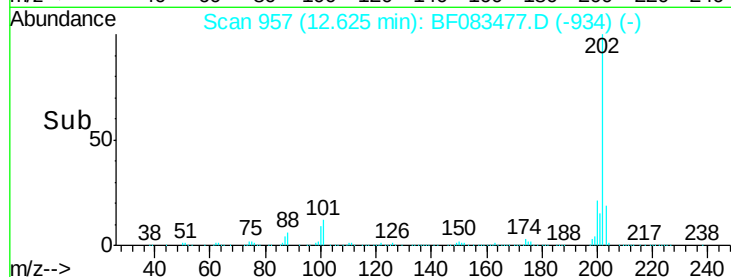
203 18.8 0.0 38.7



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: 14.72 min Scan# 1140

Delta R.T. -0.05 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

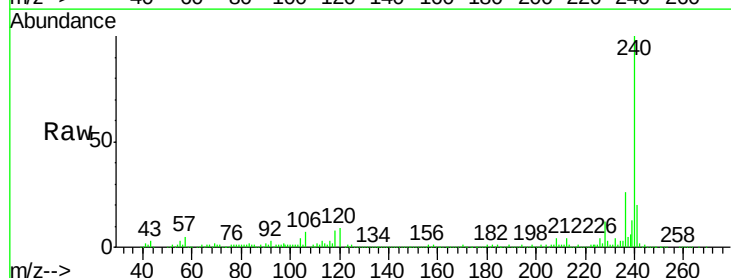
Tgt Ion:240 Resp: 377343

Ion Ratio Lower Upper

240 100

120 9.2 6.9 10.3

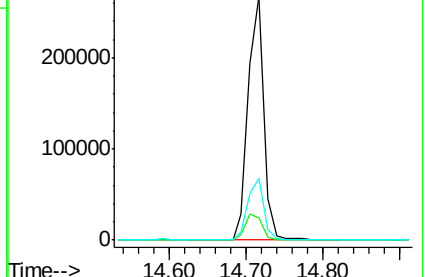
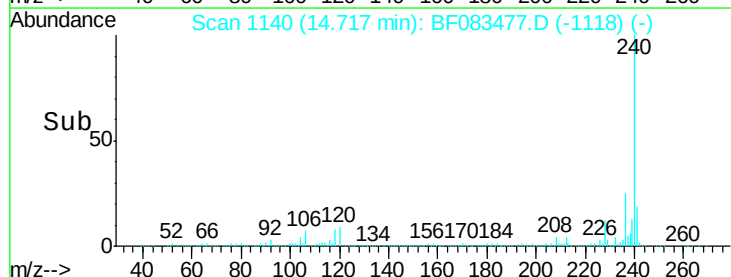
236 25.6 19.8 29.6

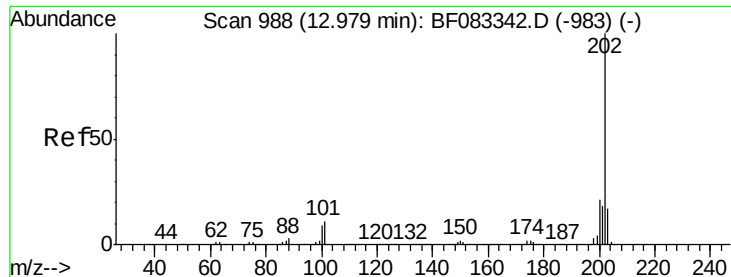


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 21.60 ng

RT: 12.93 min Scan# 984

Delta R.T. -0.05 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

Instrument :

BNA_F

ClientSampleId :

SB-08

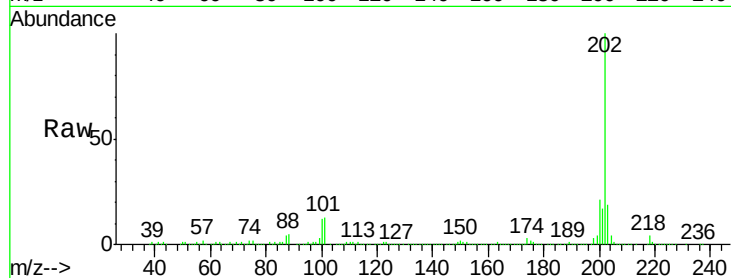
Tot Ion:202 Resp: 569210

Ion Ratio Lower Upper

202 100

200 20.6 16.9 25.3

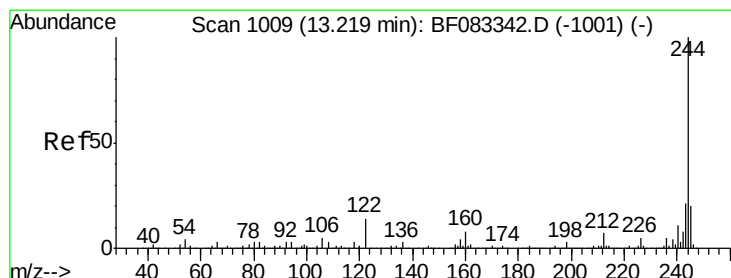
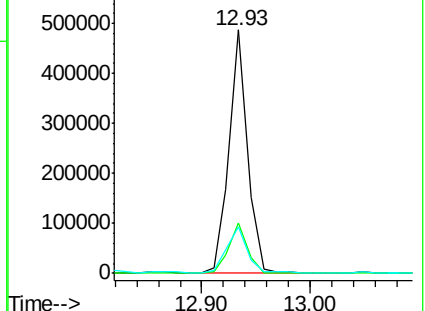
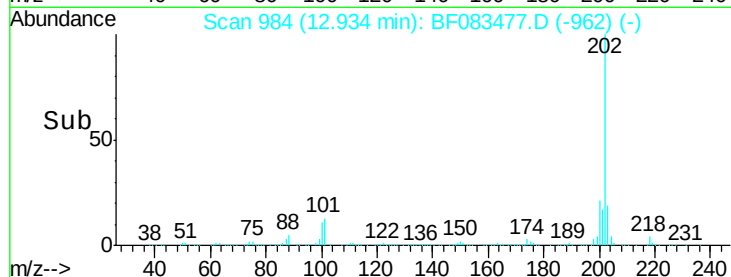
203 19.1 13.9 20.9



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: 78.17 ng

RT: 13.19 min Scan# 1006

Delta R.T. -0.03 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

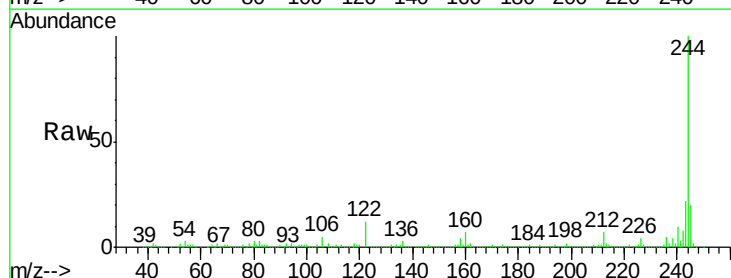
Tgt Ion:244 Resp: 1236790

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

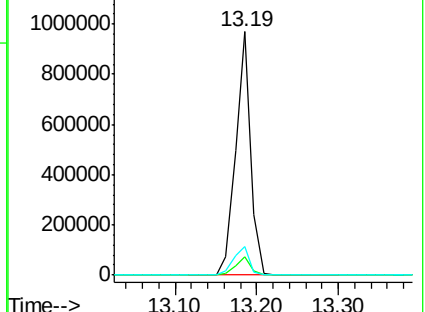
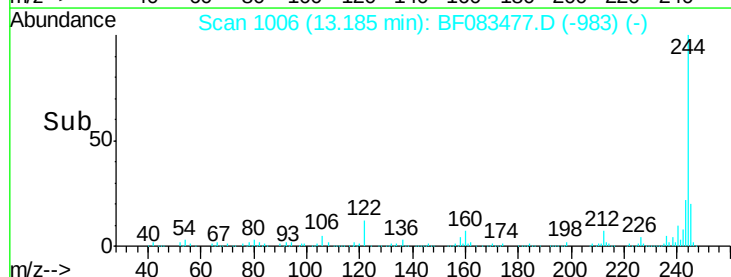
122 11.9 11.0 16.4

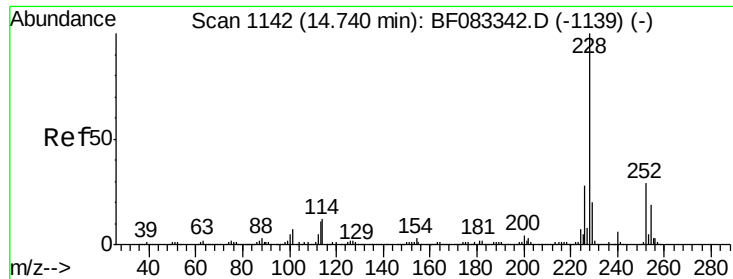


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 11.59 ng

RT: 14.69 min Scan# 1138

Delta R.T. -0.05 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

Instrument :

BNA_F

ClientSampleId :

SB-08

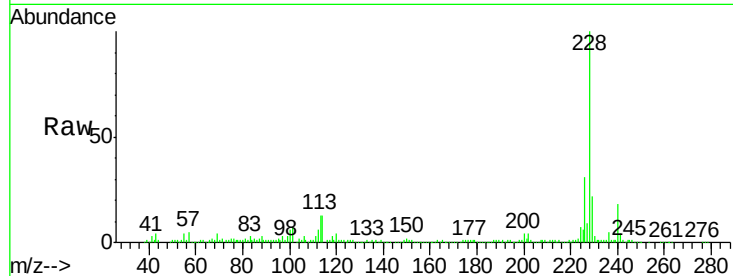
Tot Ion:228 Resp: 267909

Ion Ratio Lower Upper

228 100

226 30.6 22.2 33.4

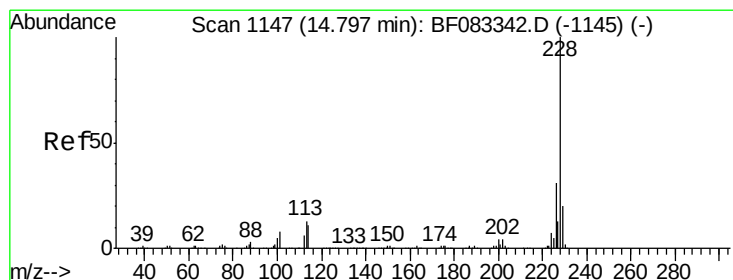
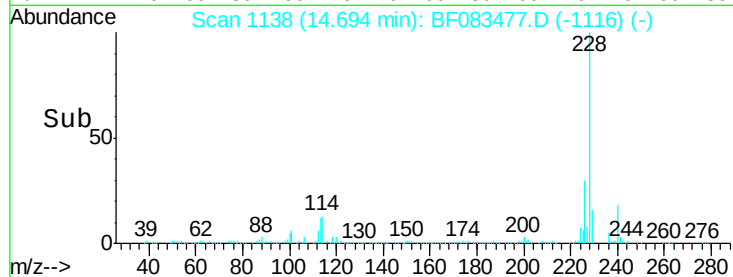
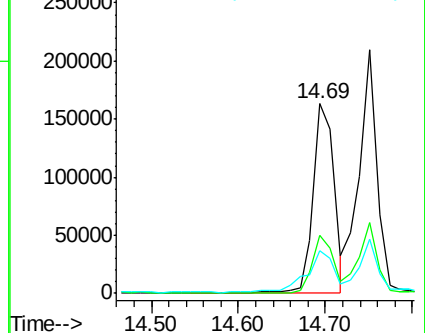
229 22.4 16.1 24.1



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: 13.49 ng

RT: 14.75 min Scan# 1143

Delta R.T. -0.05 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

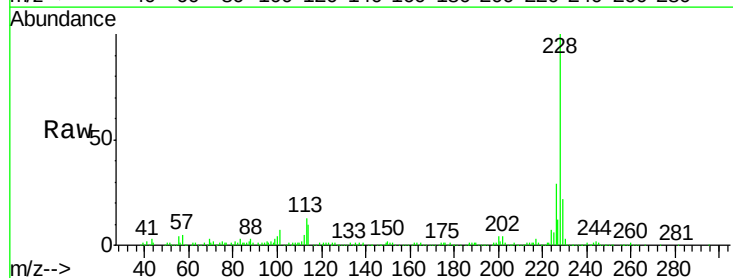
Tgt Ion:228 Resp: 301389

Ion Ratio Lower Upper

228 100

226 29.3 24.6 37.0

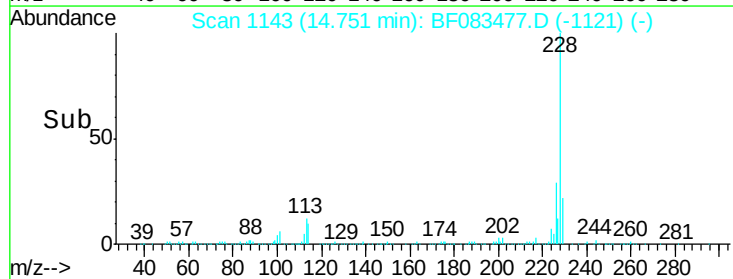
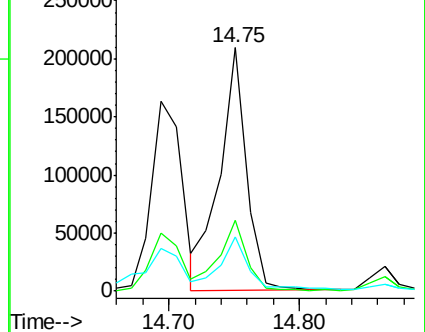
229 22.3 16.2 24.2

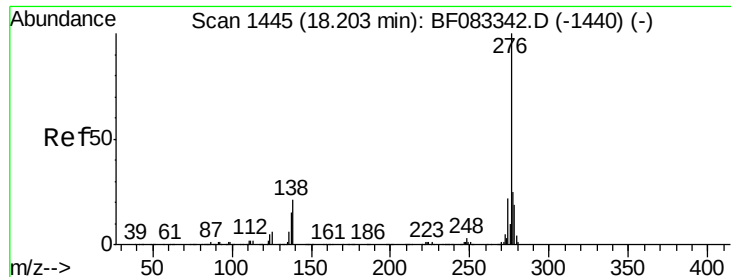


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

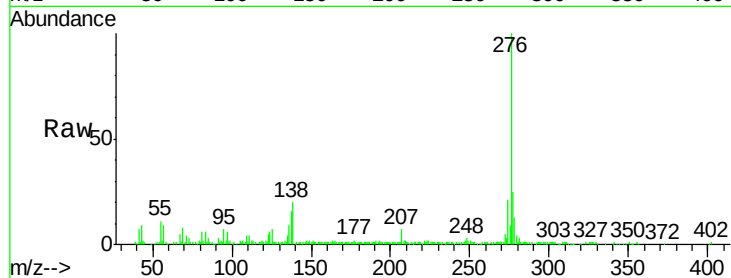




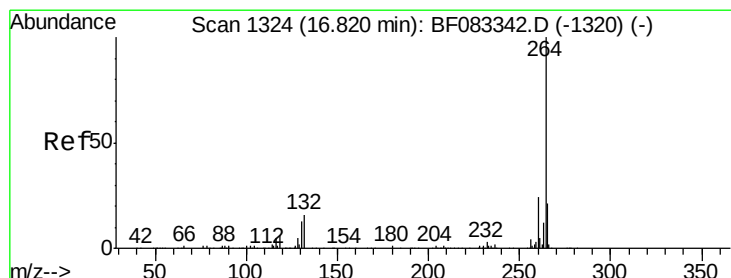
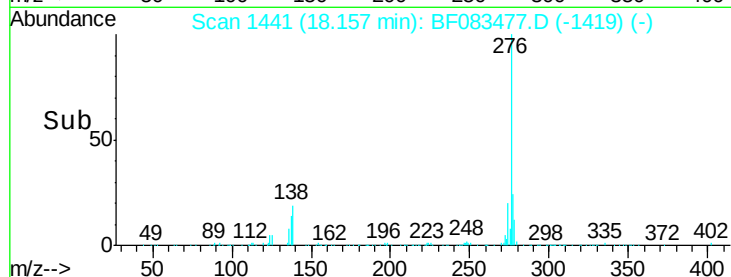
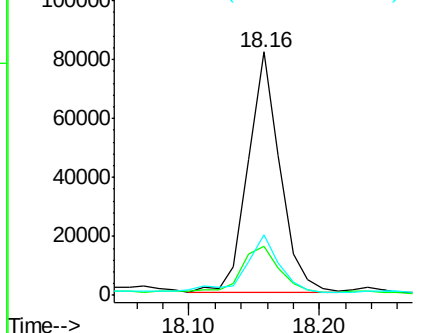
#85
Indeno(1,2,3-cd)pyrene
Concen: 8.56 ng
RT: 18.16 min Scan# 1441
Delta R.T. -0.05 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Instrument :
BNA_F
ClientSampled :
SB-08

Tot Ion:276 Resp: 139271
Ion Ratio Lower Upper
276 100
138 23.8 21.2 31.8
277 25.8 20.0 30.0

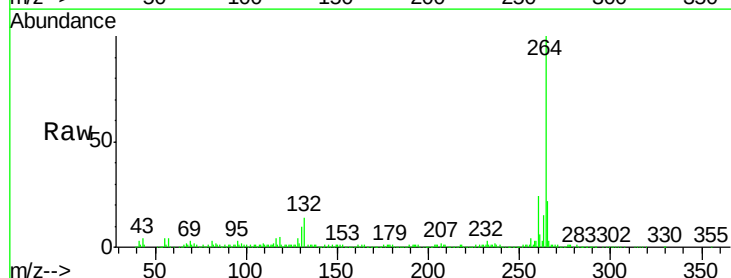


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

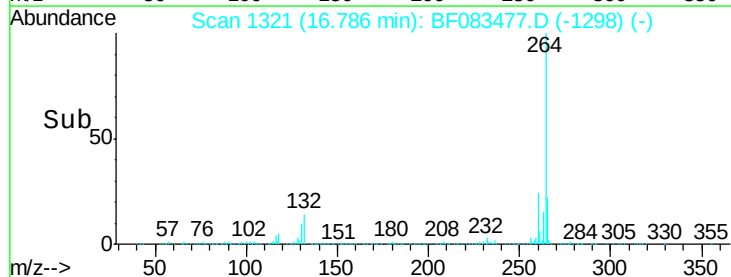
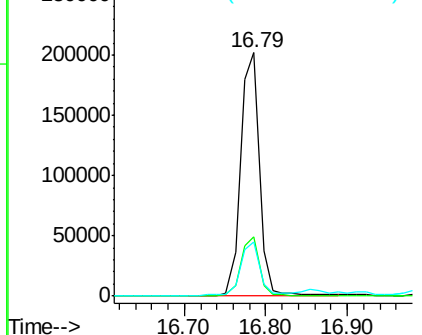


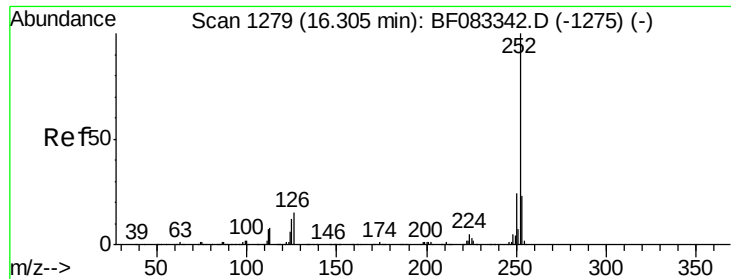
#86
Perylene-d12
Concen: 20.00 ng
RT: 16.79 min Scan# 1321
Delta R.T. -0.03 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Tgt Ion:264 Resp: 326771
Ion Ratio Lower Upper
264 100
260 24.4 19.0 28.4
265 22.1 16.8 25.2



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

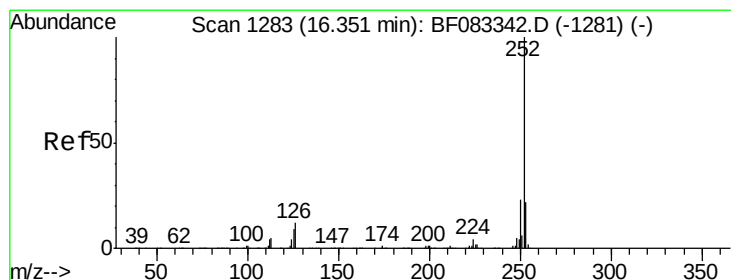
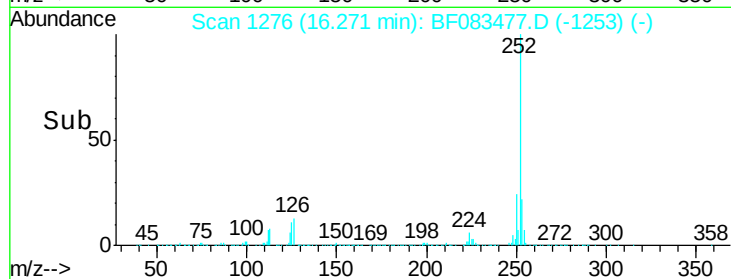
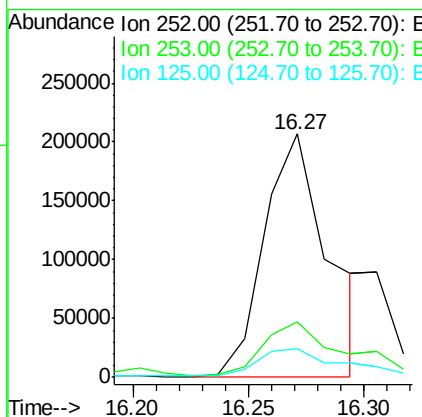
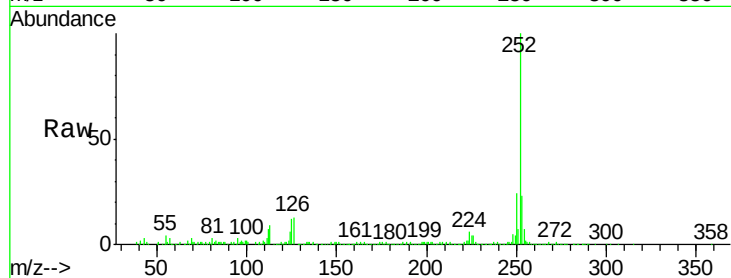




#87
Benzo(b)fluoranthene
Concen: 19.20 ng m
RT: 16.27 min Scan# 1276
Delta R.T. -0.03 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

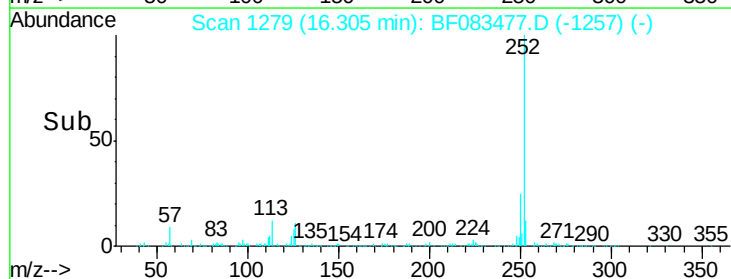
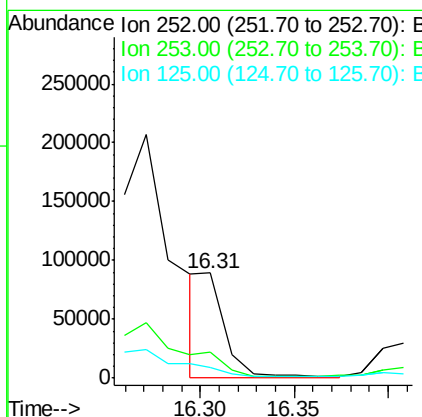
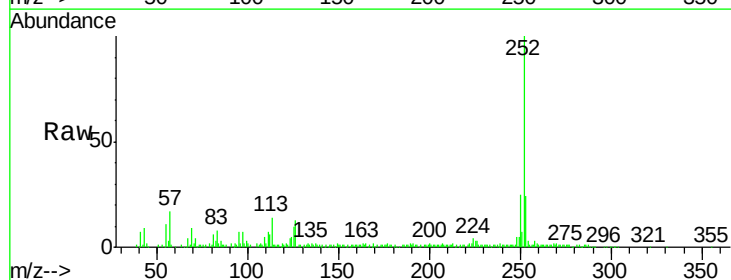
Instrument :
BNA_F
ClientSampleId :
SB-08

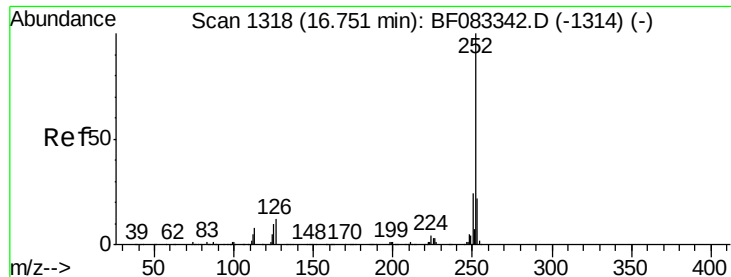
Tot Ion:252 Resp: 402600
Ion Ratio Lower Upper
252 100
253 22.6 18.4 27.6
125 12.0 9.6 14.4



#88
Benzo(k)fluoranthene
Concen: 4.19 ng m
RT: 16.31 min Scan# 1279
Delta R.T. -0.05 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Tgt Ion:252 Resp: 82990
Ion Ratio Lower Upper
252 100
253 24.2 17.4 26.0
125 9.9 7.5 11.3

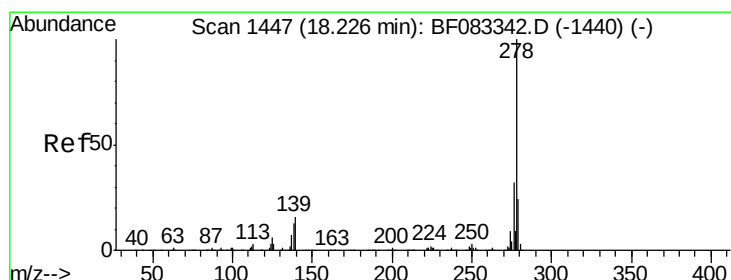
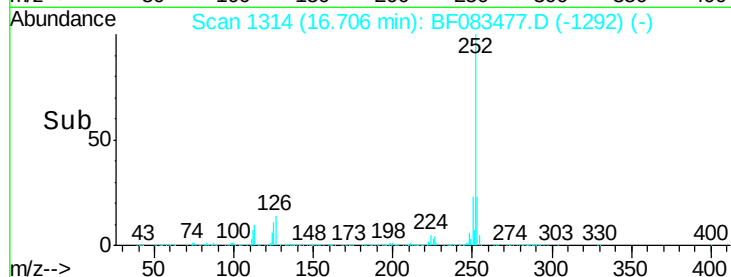
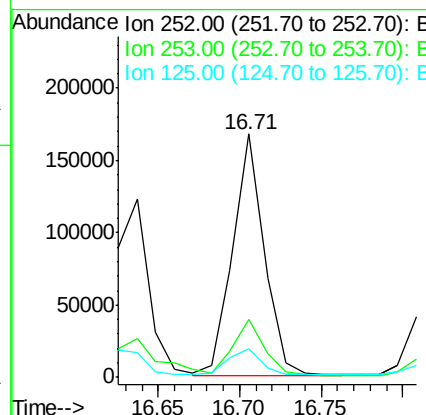
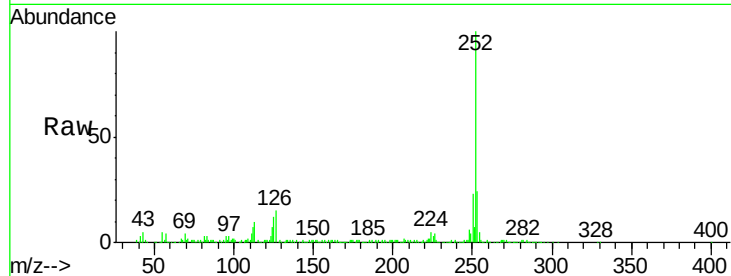




#89
Benzo(a)pyrene
Concen: 12.53 ng
RT: 16.71 min Scan# 1314
Delta R.T. -0.05 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

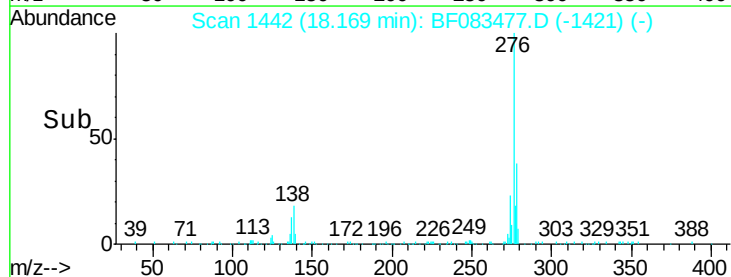
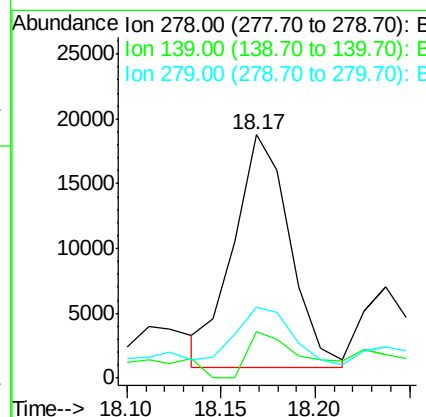
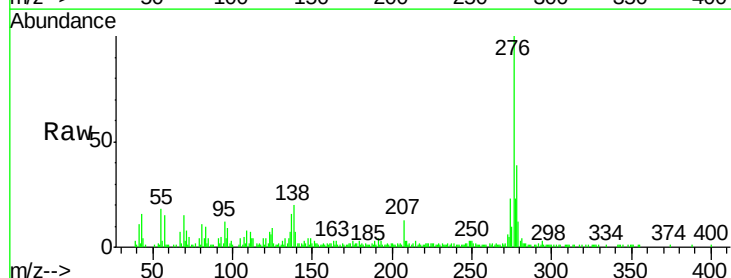
Instrument :
BNA_F
ClientSampled :
SB-08

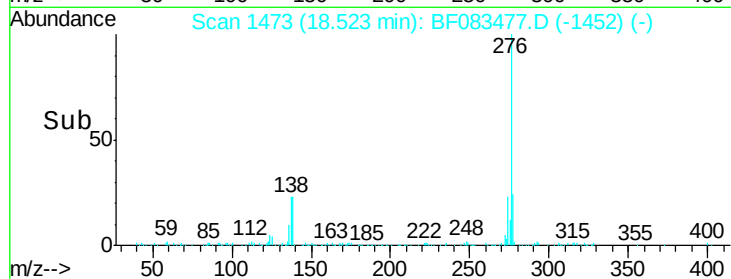
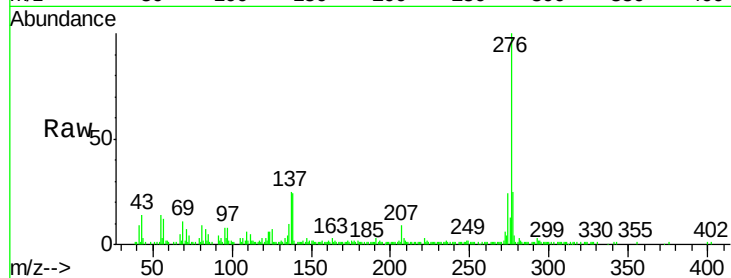
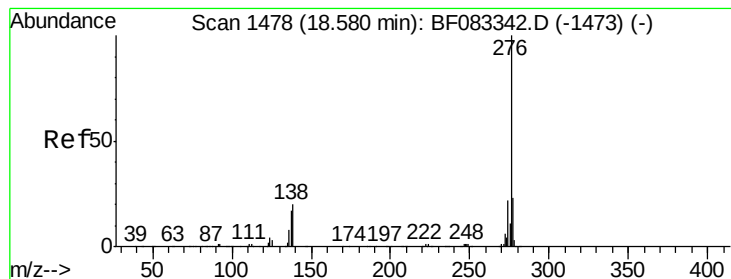
Tot Ion:252 Resp: 225634
Ion Ratio Lower Upper
252 100
253 23.6 17.5 26.3
125 12.0 7.8 11.8#



#90
Dibenzo(a,h)anthracene
Concen: 2.40 ng m
RT: 18.17 min Scan# 1442
Delta R.T. -0.06 min
Lab File: BF083477.D
Acq: 3 Dec 2015 23:53

Tgt Ion:278 Resp: 37729
Ion Ratio Lower Upper
278 100
139 19.0 13.1 19.7
279 29.2 19.2 28.8#





#91

Benzo(a,h,i)perylene

Concen: 7.94 ng

RT: 18.52 min Scan# 1473

Delta R.T. -0.06 min

Lab File: BF083477.D

Acq: 3 Dec 2015 23:53

Instrument :

BNA_F

ClientSampleId :

SB-08

Tot Ion:276 Resp: 122294

Ion Ratio Lower Upper

276 100

277 25.1 18.6 28.0

138 24.2 16.1 24.1#

