

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110215\
 Data File : BF082638.D
 Acq On : 2 Nov 2015 18:37
 Operator : UM/IZ
 Sample : G4234-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DS-1

Quant Time: Nov 03 03:51:30 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF103015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 31 00:17:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	204467	20.00	ng	-0.02
21) Naphthalene-d8	8.18	136	671422	20.00	ng	-0.01
38) Acenaphthene-d10	9.93	164	300430	20.00	ng	-0.02
63) Phenanthrene-d10	11.41	188	479065	20.00	ng	-0.02
75) Chrysene-d12	14.05	240	376990	20.00	ng	-0.02
86) Perylene-d12	15.51	264	357005	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	1560740	114.97	ng	-0.01
7) Phenol-d6	6.52	99	2299024	127.47	ng	-0.01
23) Nitrobenzene-d5	7.45	82	1384606	84.21	ng	-0.02
41) 2,4,6-Tribromophenol	10.72	330	405704	123.39	ng	-0.02
44) 2-Fluorobiphenyl	9.25	172	1823935	86.20	ng	-0.02
78) Terphenyl-d14	13.00	244	1393356	80.89	ng	-0.02

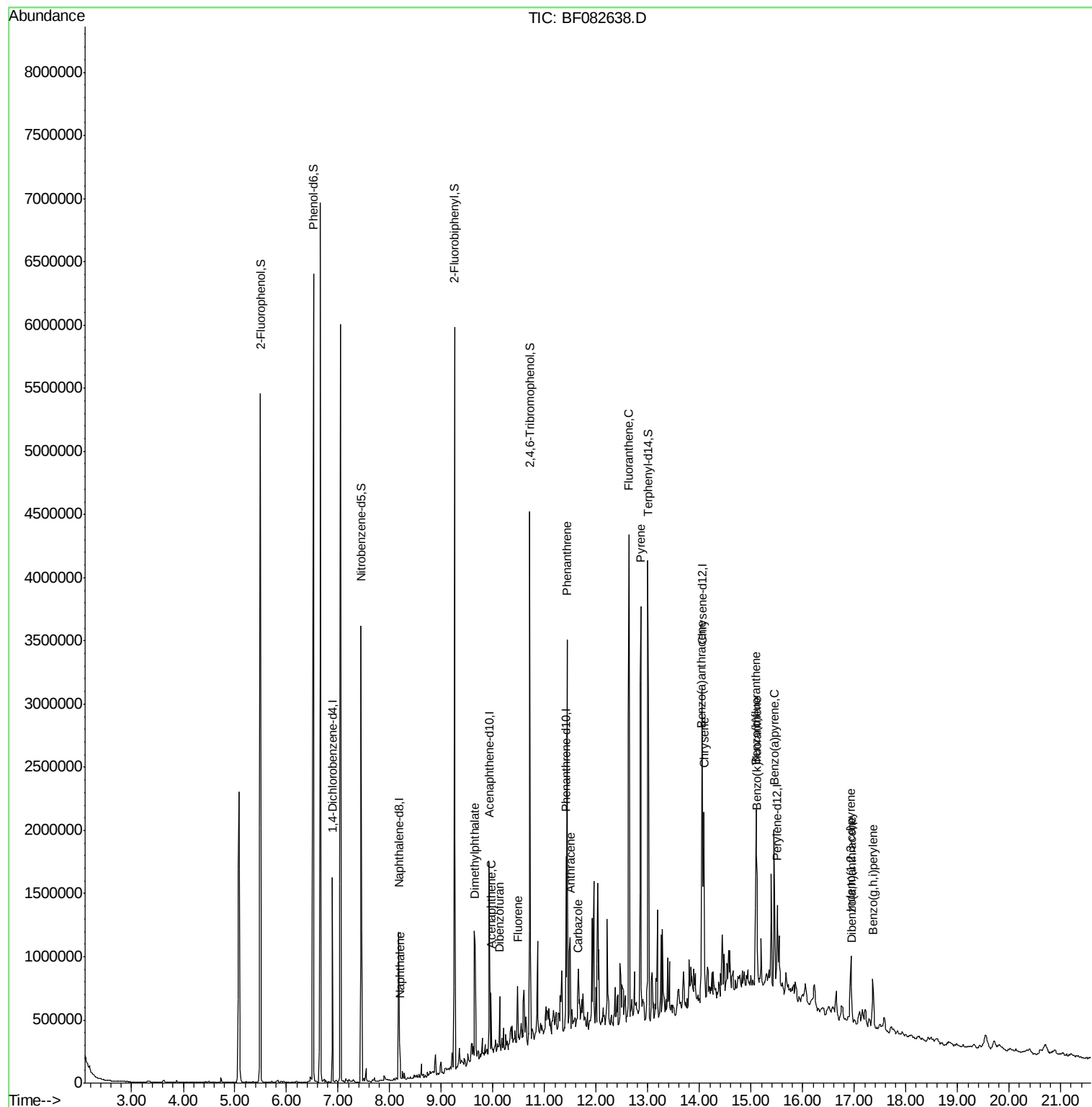
Target Compounds				Qvalue		
31) Naphthalene	8.19	128	130846	3.60	ng	97
49) Dimethylphthalate	9.65	163	542213	22.10	ng	# 96
51) Acenaphthene	9.96	154	96685	4.81	ng	98
54) Dibenzofuran	10.13	168	77405	2.84	ng	# 91
57) Fluorene	10.48	166	104147	4.73	ng	99
70) Phenanthrene	11.44	178	1305285	48.31	ng	99
71) Anthracene	11.49	178	382529	14.06	ng	96
72) Carbazole	11.64	167	66471	2.80	ng	98
74) Fluoranthene	12.64	202	1878424	68.00	ng	96
77) Pyrene	12.86	202	1899543	68.05	ng	99
80) Benzo(a)anthracene	14.04	228	1002065	41.84	ng	98
82) Chrysene	14.09	228	779049	35.89	ng	98
85) Indeno(1,2,3-cd)pyrene	16.93	276	346959	19.37	ng	92
87) Benzo(b)fluoranthene	15.09	252	828352m	33.65	ng	
88) Benzo(k)fluoranthene	15.11	252	355436m	18.95	ng	
89) Benzo(a)pyrene	15.45	252	657751	33.93	ng	96
90) Dibenzo(a,h)anthracene	16.95	278	92593	5.12	ng	97
91) Benzo(g,h,i)perylene	17.36	276	337298	19.24	ng	99

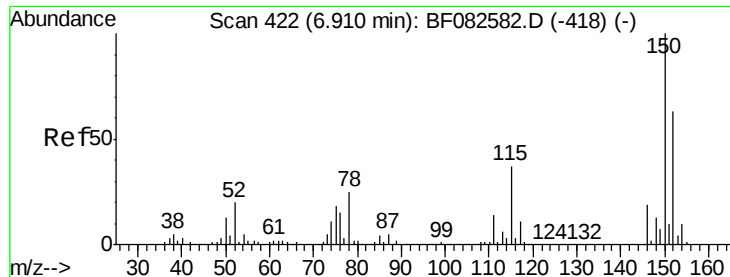
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 420

Delta R.T. -0.02 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

Instrument :

BNA_F

ClientSampleId :

DS-1

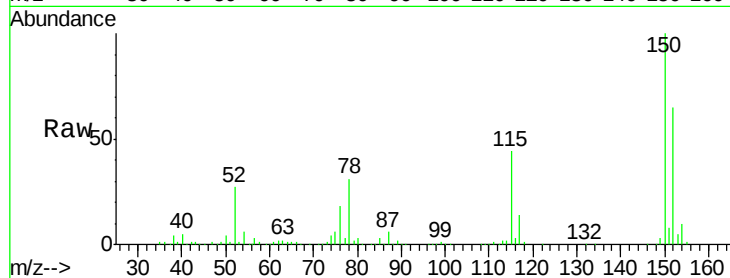
Tot Ion:152 Resp: 204467

Ion Ratio Lower Upper

152 100

150 154.5 127.0 190.4

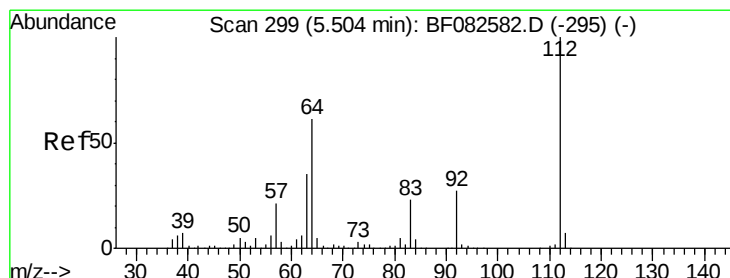
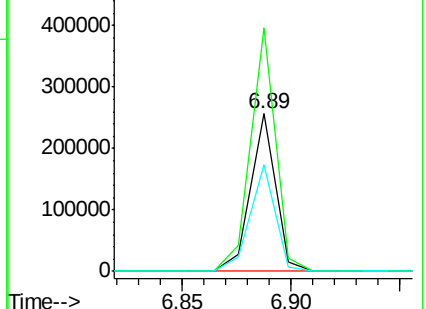
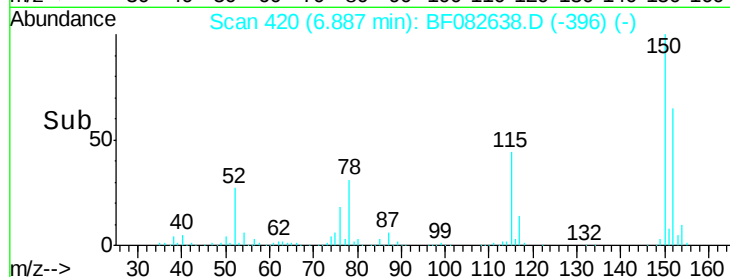
115 67.8 47.0 70.6



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: 114.97 ng

RT: 5.49 min Scan# 298

Delta R.T. -0.01 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

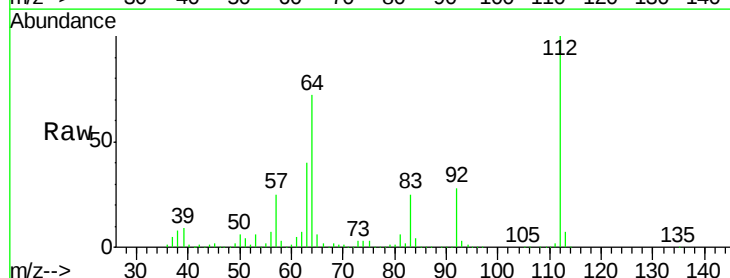
Tgt Ion:112 Resp: 1560740

Ion Ratio Lower Upper

112 100

64 72.4 48.9 73.3

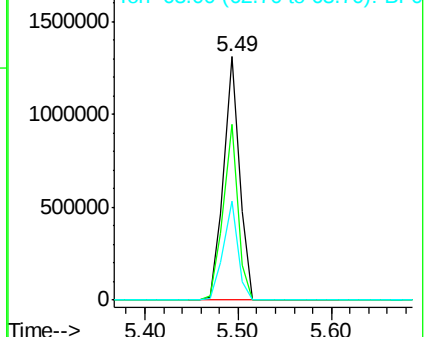
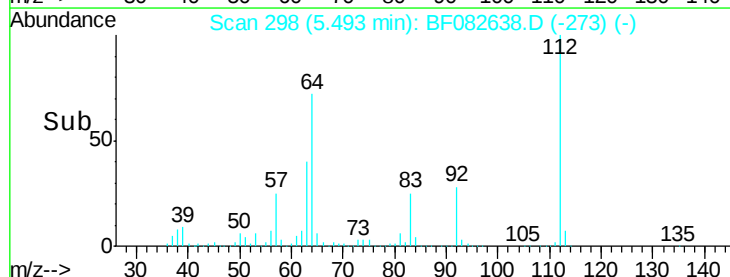
63 40.4 28.1 42.1



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: 127.47 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.01 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

Instrument :

BNA_F

ClientSampleId :

DS-1

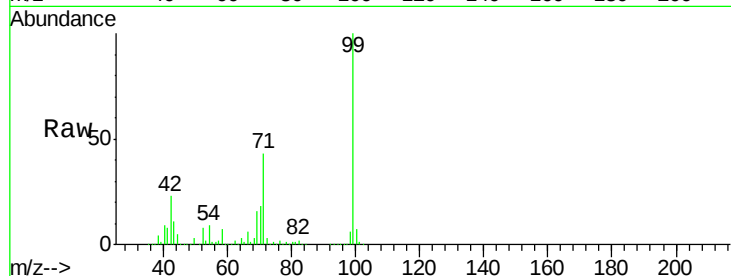
Tot Ion: 99 Resp: 2299024

Ion Ratio Lower Upper

99 100

42 22.9 19.2 28.8

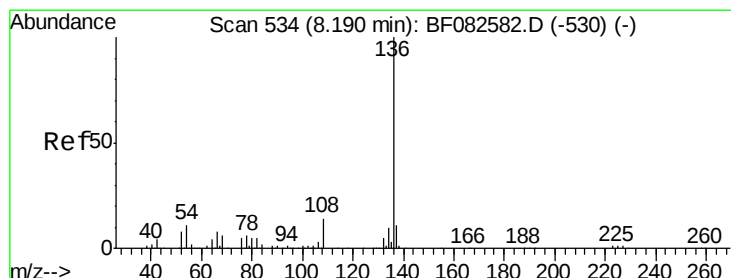
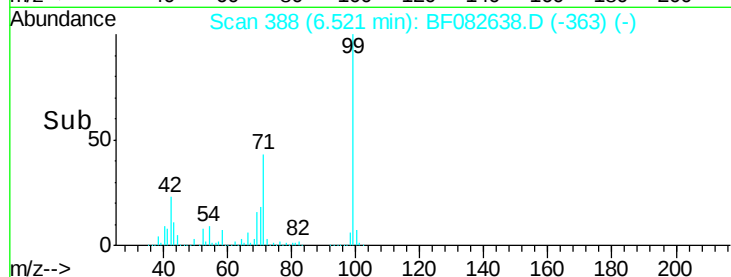
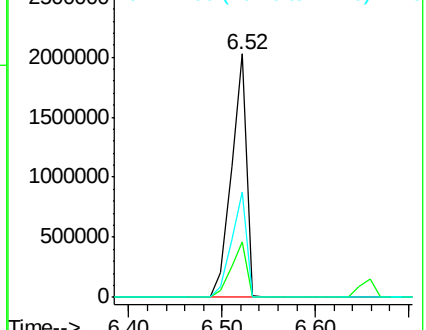
71 43.2 35.0 52.4



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: 8.18 min Scan# 533

Delta R.T. -0.01 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

Tgt Ion:136 Resp: 671422

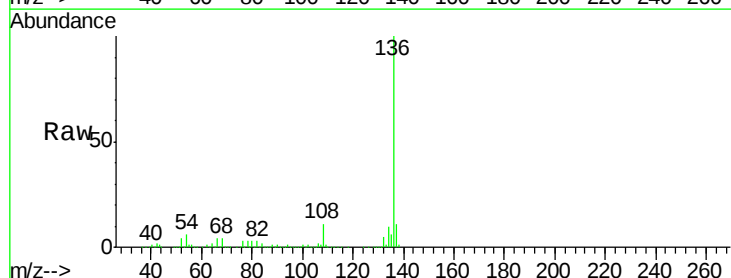
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 6.0 9.1 13.7#

68 3.7 4.8 7.2#

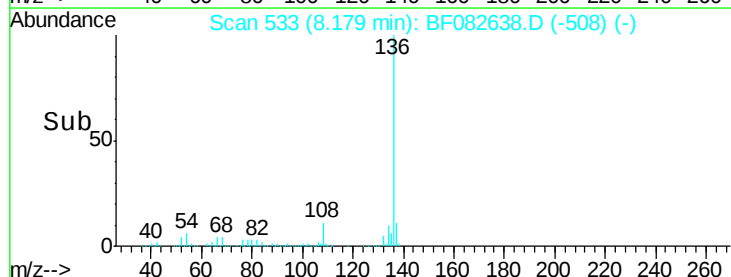
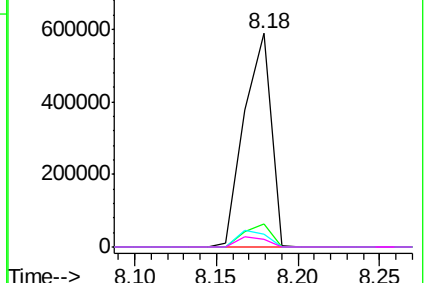


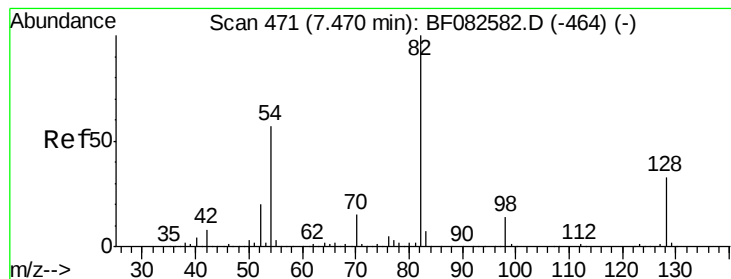
Abundance Ion 136.00 (135.70 to 136.70): E

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: 84.21 ng

RT: 7.45 min Scan# 469

Delta R.T. -0.02 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

Instrument :

BNA_F

ClientSampleId :

DS-1

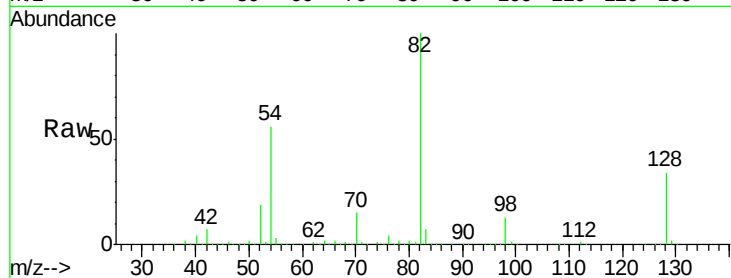
Tot Ion: 82 Resp: 1384606

Ion Ratio Lower Upper

82 100

128 34.1 26.8 40.2

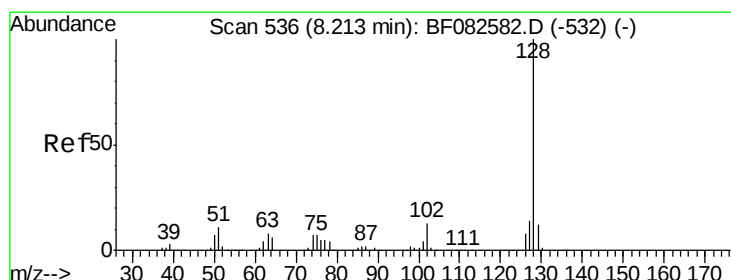
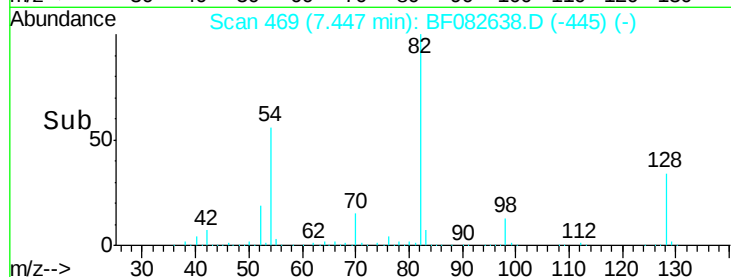
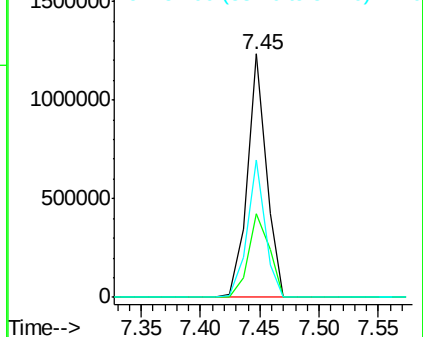
54 56.4 45.7 68.5



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: 3.60 ng

RT: 8.19 min Scan# 534

Delta R.T. -0.02 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

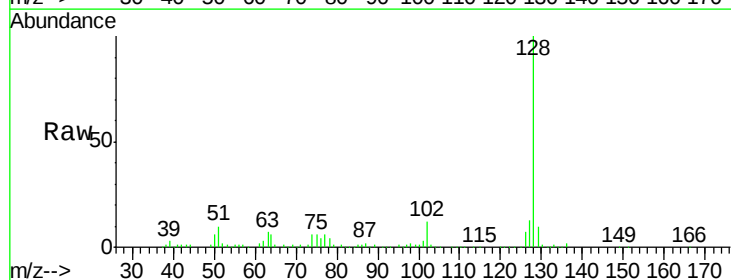
Tgt Ion: 128 Resp: 130846

Ion Ratio Lower Upper

128 100

129 10.3 9.5 14.3

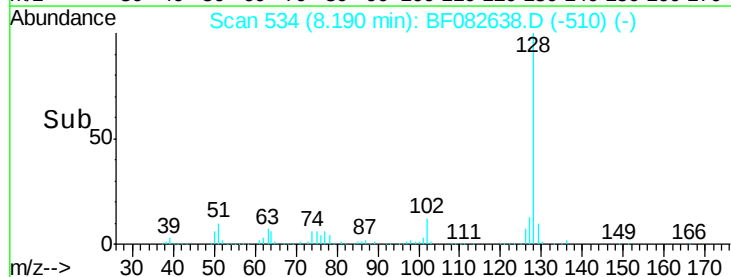
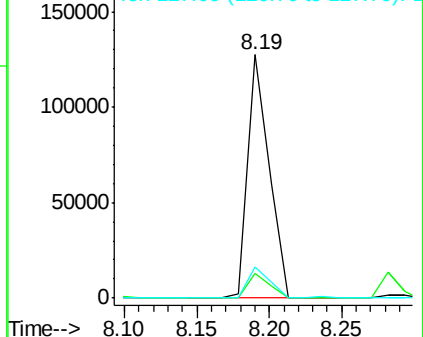
127 13.0 11.4 17.0

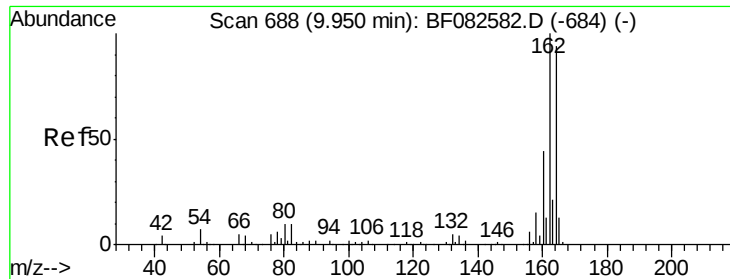


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

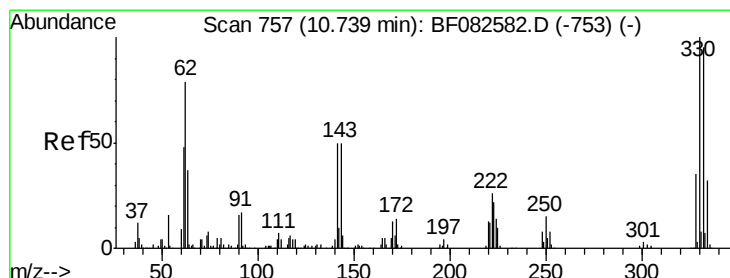
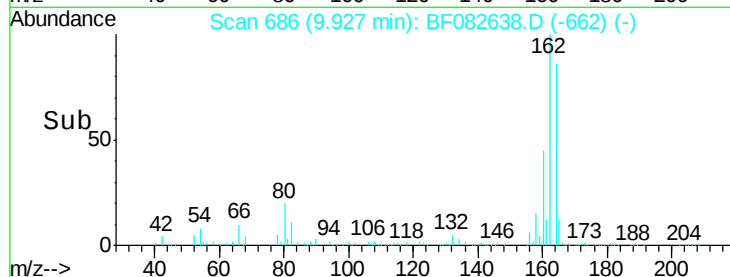
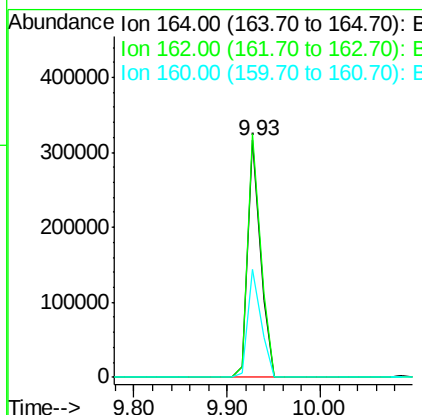
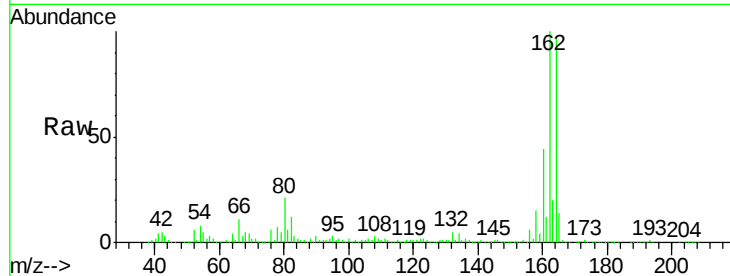




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.93 min Scan# 686
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

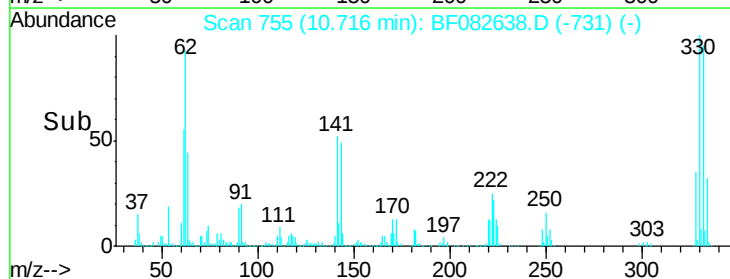
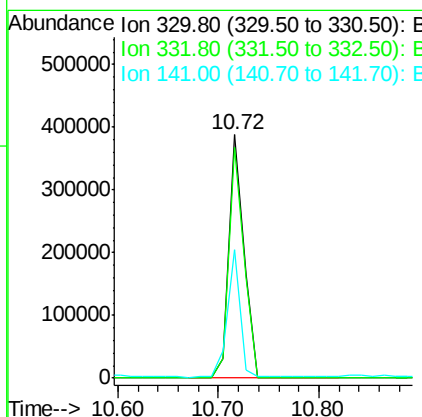
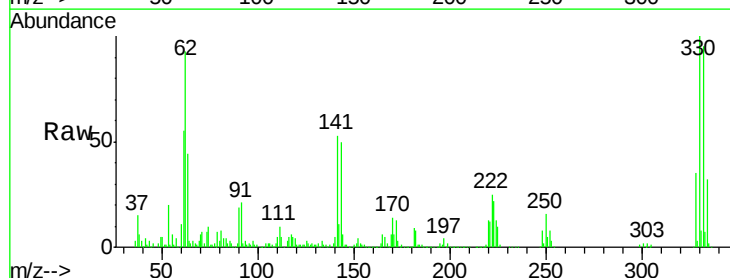
Instrument :
BNA_F
ClientSampleId :
DS-1

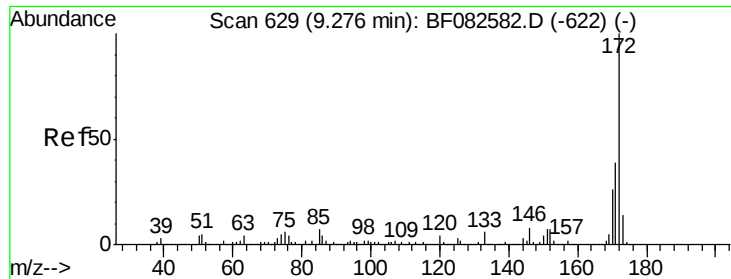
Tot Ion:164 Resp: 300430
Ion Ratio Lower Upper
164 100
162 102.9 84.9 127.3
160 45.7 37.5 56.3



#41
2,4,6-Tribromophenol
Concen: 123.39 ng
RT: 10.72 min Scan# 755
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:330 Resp: 405704
Ion Ratio Lower Upper
330 100
332 95.6 76.6 114.8
141 45.0 41.2 61.8

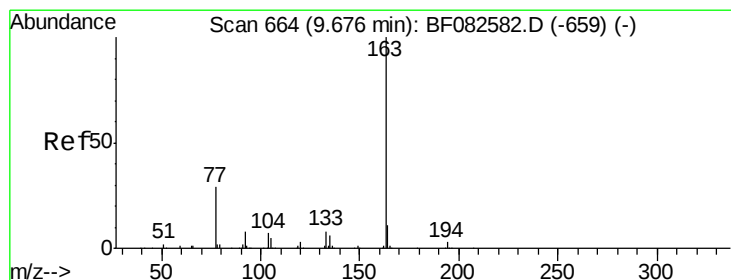
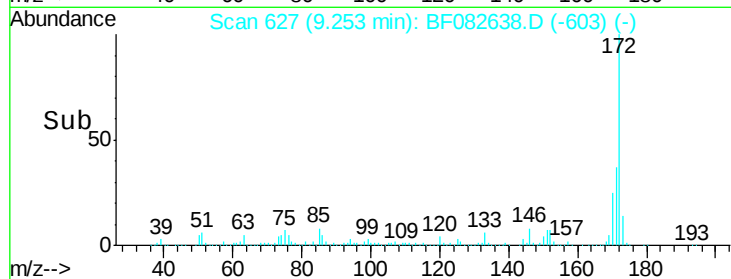
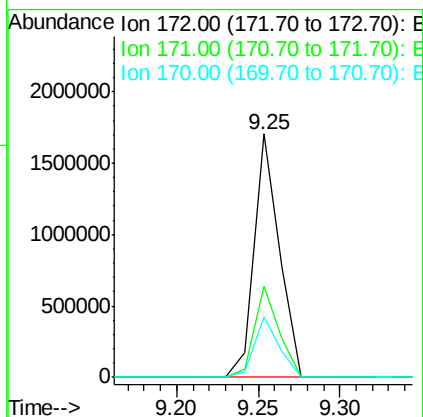
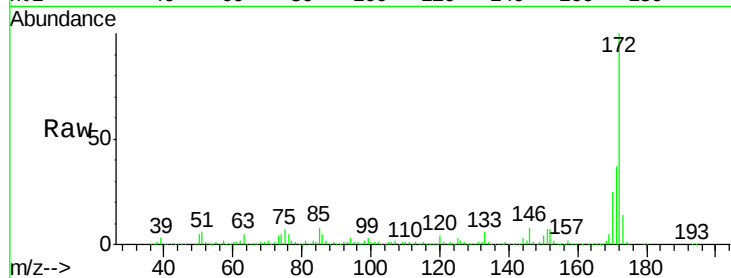




#44
2-Fluorobiphenyl
Concen: 86.20 ng
RT: 9.25 min Scan# 627
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

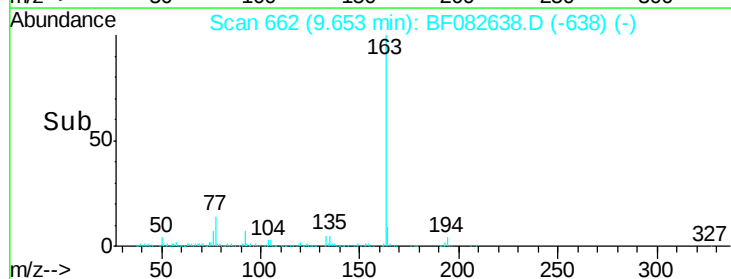
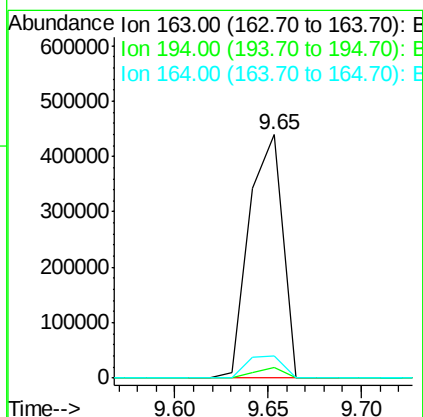
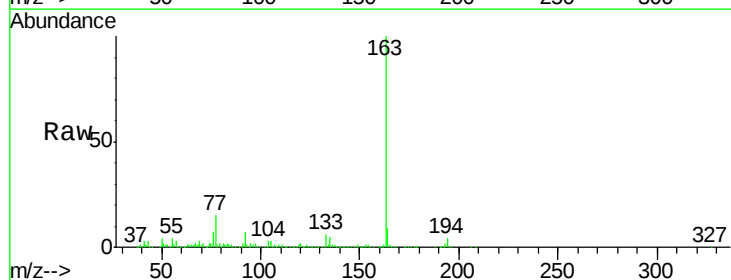
Instrument :
BNA_F
ClientSampleId :
DS-1

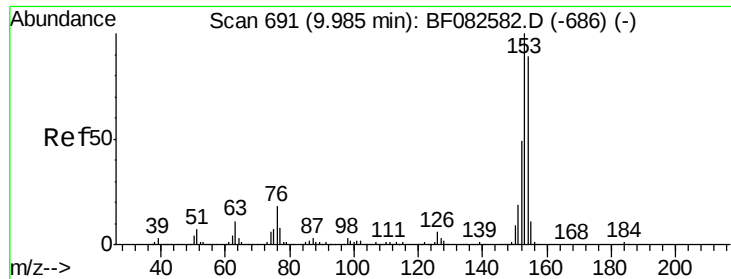
Tot Ion:172 Resp: 1823935
Ion Ratio Lower Upper
172 100
171 37.2 30.8 46.2
170 25.0 21.2 31.8



#49
Dimethylphthalate
Concen: 22.10 ng
RT: 9.65 min Scan# 662
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:163 Resp: 542213
Ion Ratio Lower Upper
163 100
194 4.4 2.6 4.0#
164 9.4 8.7 13.1

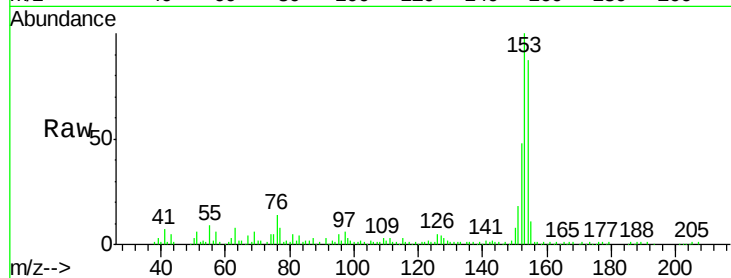




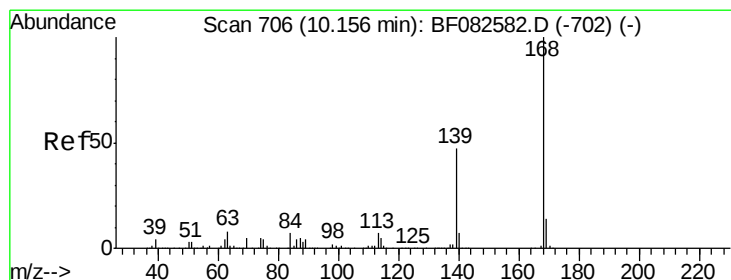
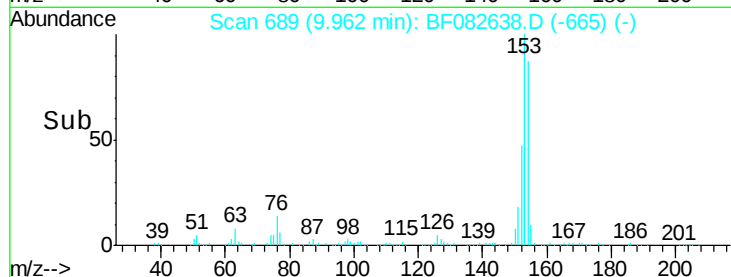
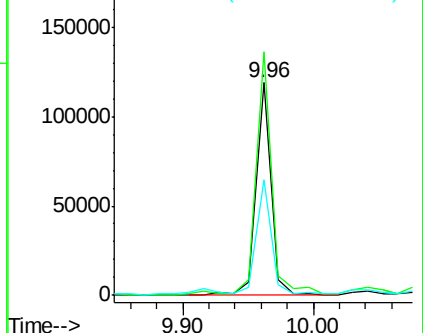
#51
Acenaphthene
Concen: 4.81 ng
RT: 9.96 min Scan# 689
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Instrument :
BNA_F
ClientSampleId :
DS-1

Tot Ion:154 Resp: 96685
Ion Ratio Lower Upper
154 100
153 114.6 90.1 135.1
152 54.6 44.3 66.5

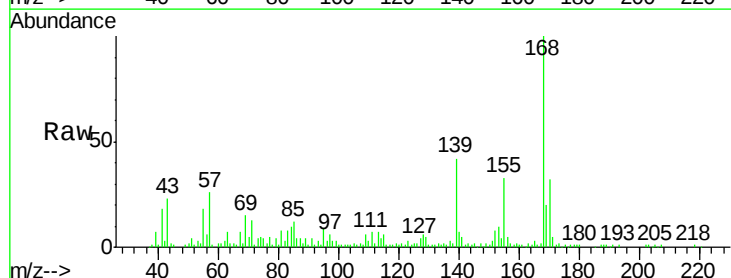


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

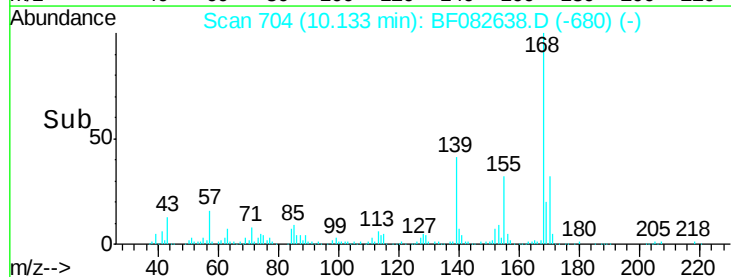
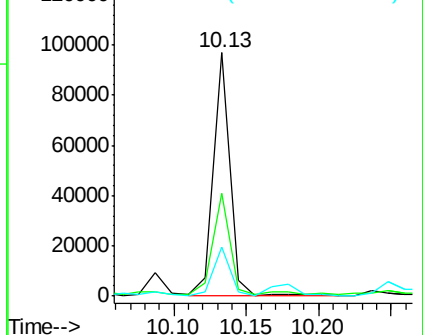


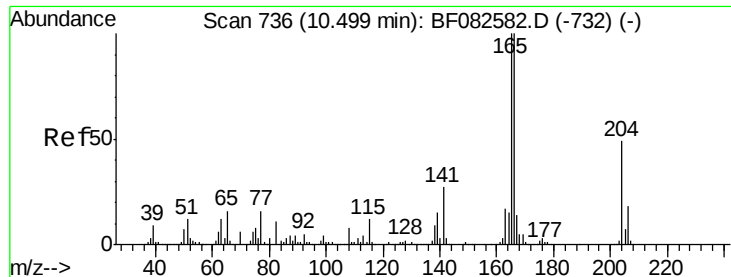
#54
Dibenzofuran
Concen: 2.84 ng
RT: 10.13 min Scan# 704
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:168 Resp: 77405
Ion Ratio Lower Upper
168 100
139 42.0 37.8 56.6
169 20.0 11.3 16.9#



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

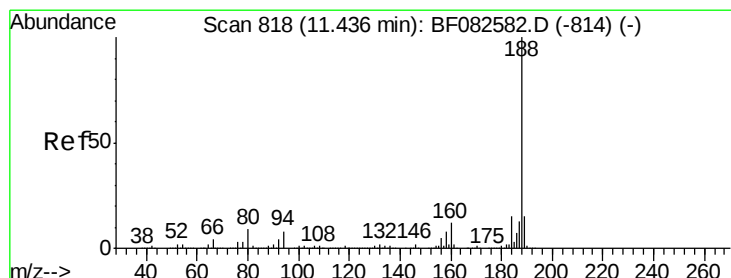
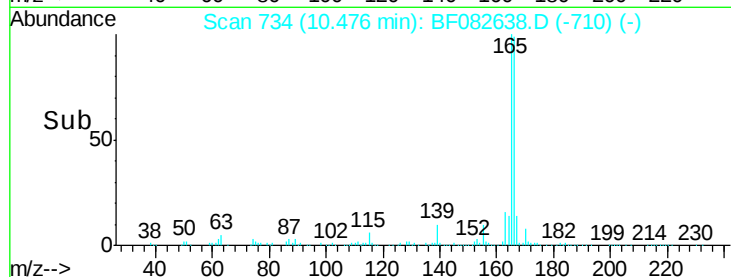
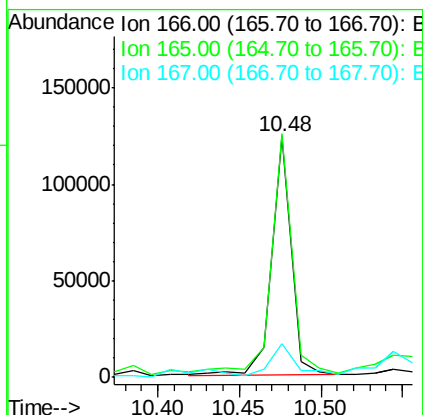
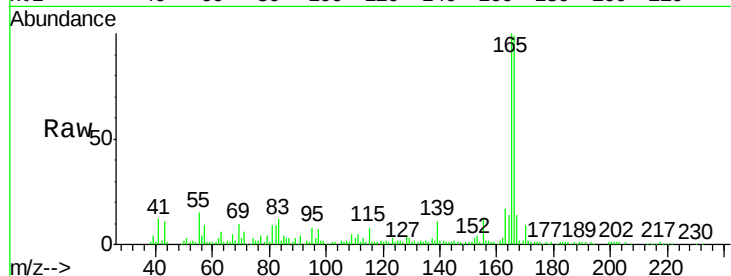




#57
Fluorene
 Concen: 4.73 ng
 RT: 10.48 min Scan# 734
 Delta R.T. -0.02 min
 Lab File: BF082638.D
 Acq: 2 Nov 2015 18:37

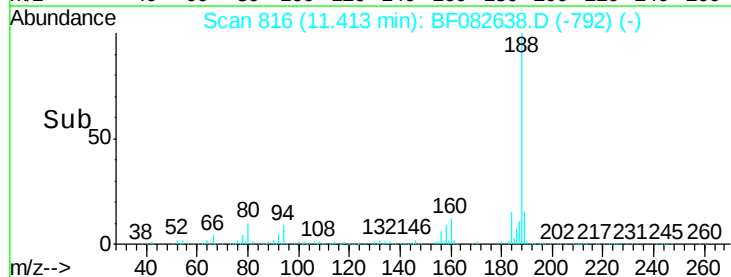
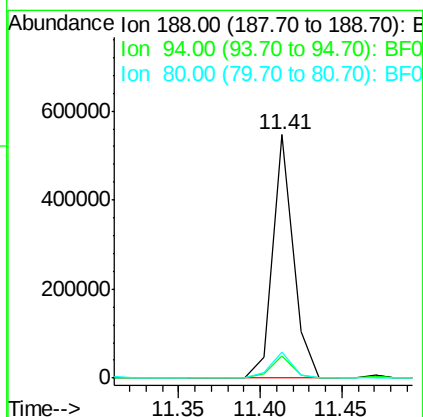
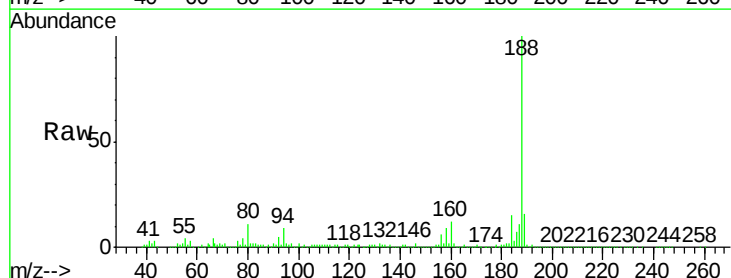
Instrument :
 BNA_F
 ClientSampleId :
 DS-1

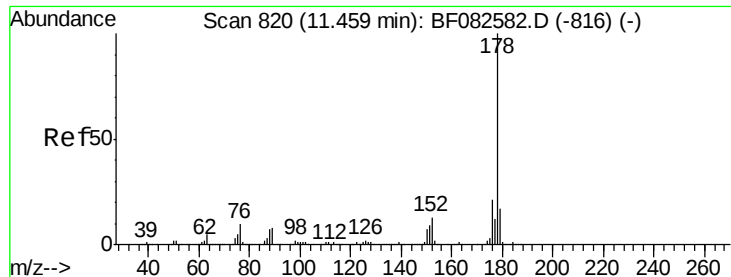
Tot Ion:166 Resp: 104147
 Ion Ratio Lower Upper
 166 100
 165 101.1 80.2 120.4
 167 14.1 11.2 16.8



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.41 min Scan# 816
 Delta R.T. -0.02 min
 Lab File: BF082638.D
 Acq: 2 Nov 2015 18:37

Tgt Ion:188 Resp: 479065
 Ion Ratio Lower Upper
 188 100
 94 8.9 6.1 9.1
 80 10.7 7.0 10.6#

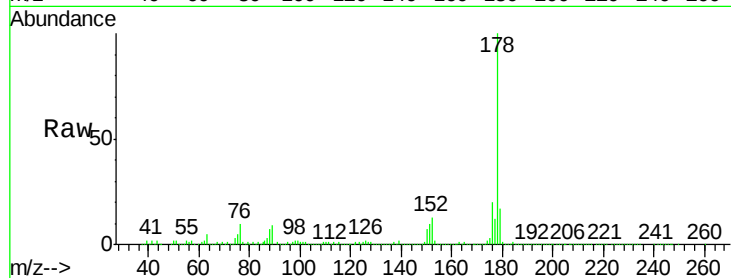




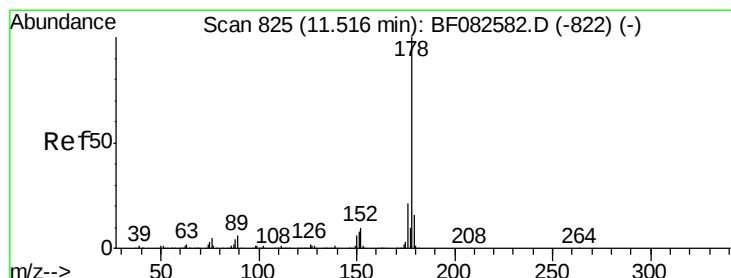
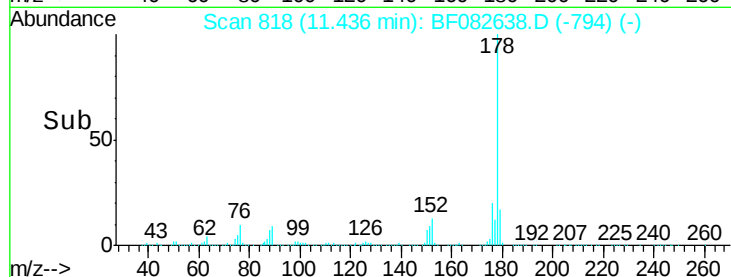
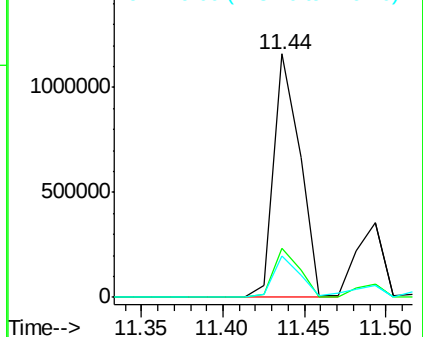
#70
Phenanthrene
Concen: 48.31 ng
RT: 11.44 min Scan# 818
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Instrument :
BNA_F
ClientSampleId :
DS-1

Tot Ion:178 Resp: 1305285
Ion Ratio Lower Upper
178 100
176 20.1 17.0 25.4
179 16.8 13.4 20.0

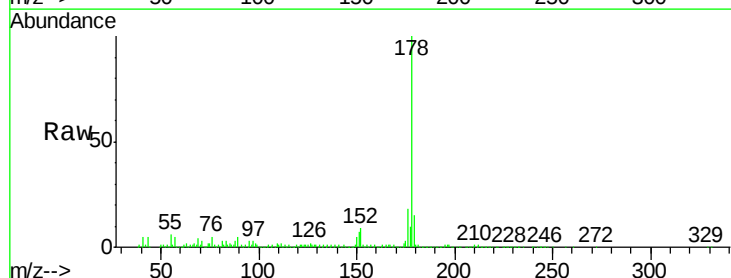


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

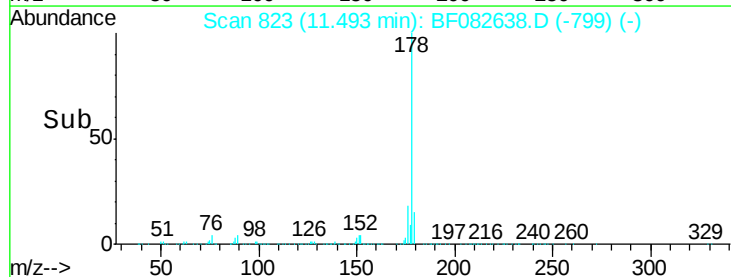
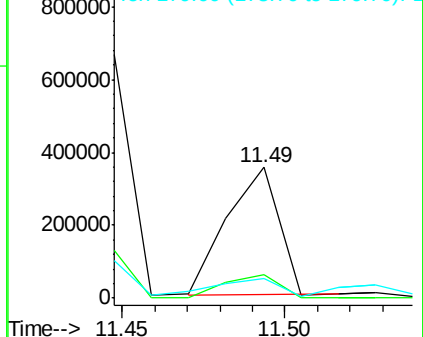


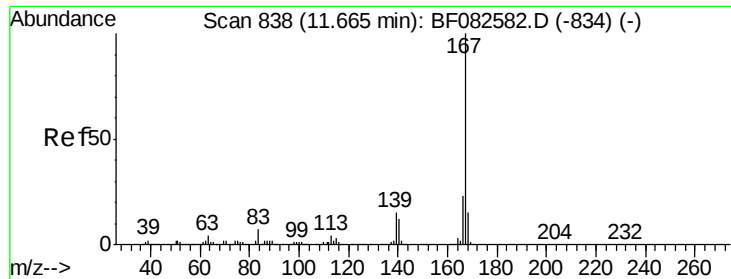
#71
Anthracene
Concen: 14.06 ng
RT: 11.49 min Scan# 823
Delta R.T. -0.02 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:178 Resp: 382529
Ion Ratio Lower Upper
178 100
176 18.0 16.5 24.7
179 15.3 13.2 19.8



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

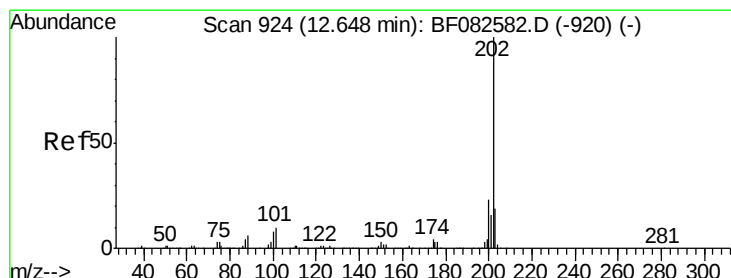
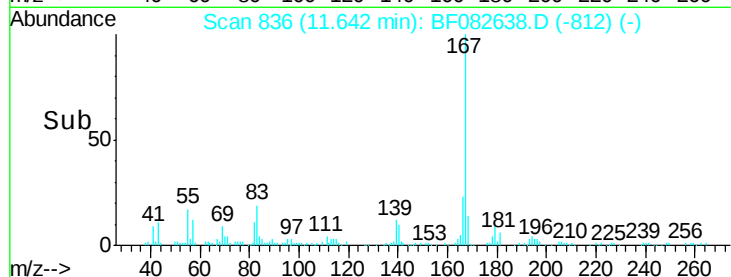
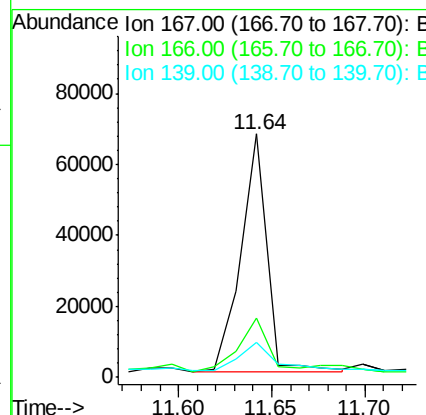
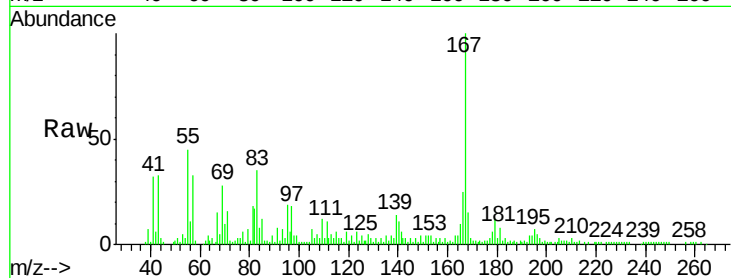




#72
 Carbazole
 Concen: 2.80 ng
 RT: 11.64 min Scan# 836
 Delta R.T. -0.02 min
 Lab File: BF082638.D
 Acq: 2 Nov 2015 18:37

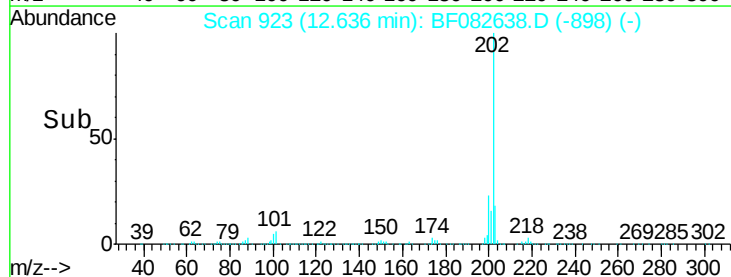
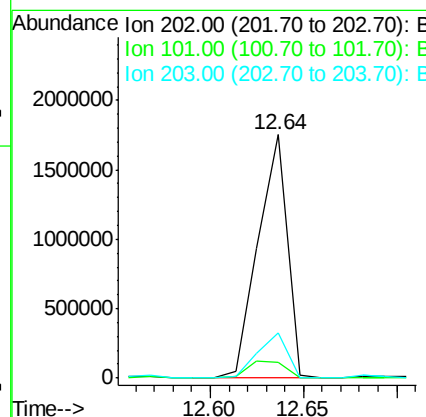
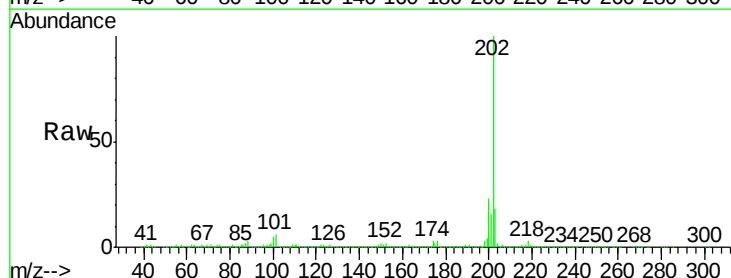
Instrument :
 BNA_F
 ClientSampleId :
 DS-1

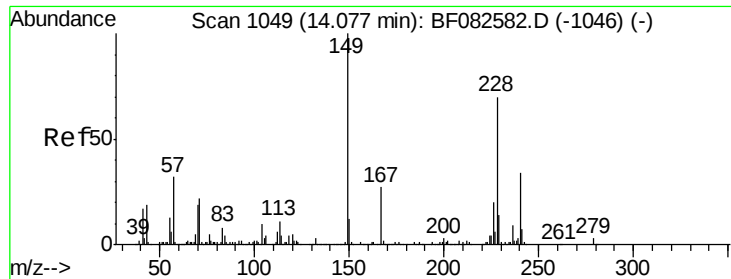
Tot Ion:167 Resp: 66471
 Ion Ratio Lower Upper
 167 100
 166 24.6 18.7 28.1
 139 14.3 11.8 17.6



#74
 Fluoranthene
 Concen: 68.00 ng
 RT: 12.64 min Scan# 923
 Delta R.T. -0.01 min
 Lab File: BF082638.D
 Acq: 2 Nov 2015 18:37

Tgt Ion:202 Resp: 1878424
 Ion Ratio Lower Upper
 202 100
 101 6.3 0.0 30.5
 203 18.4 0.0 38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 1047

Delta R.T. -0.02 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

Instrument :

BNA_F

ClientSampleId :

DS-1

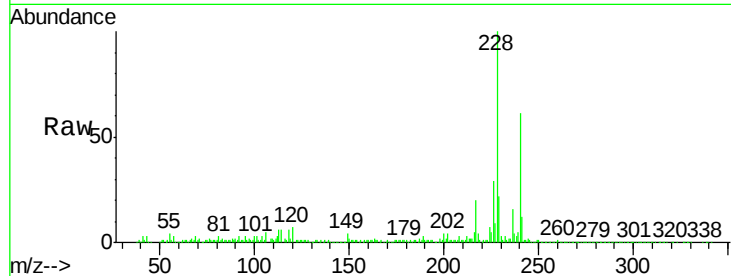
Tot Ion:240 Resp: 376990

Ion Ratio Lower Upper

240 100

120 11.8 10.9 16.3

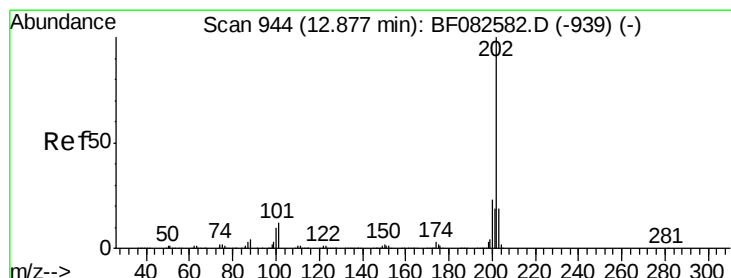
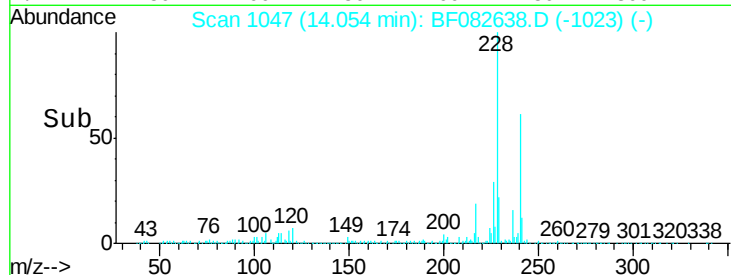
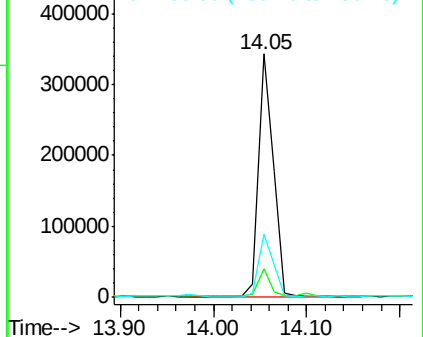
236 26.2 21.6 32.4



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: 68.05 ng

RT: 12.86 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

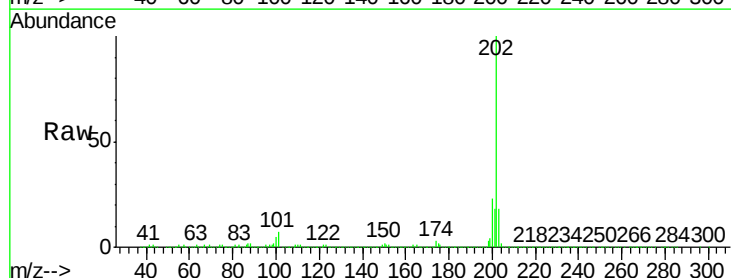
Tgt Ion:202 Resp: 1899543

Ion Ratio Lower Upper

202 100

200 22.8 18.7 28.1

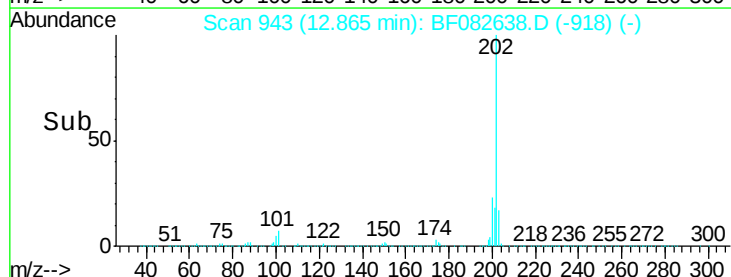
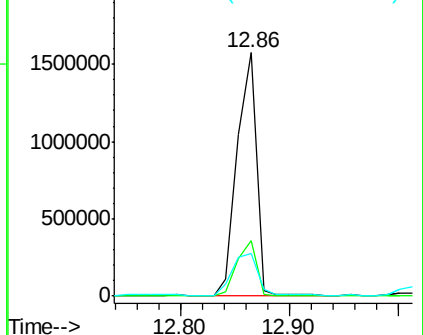
203 17.7 14.8 22.2

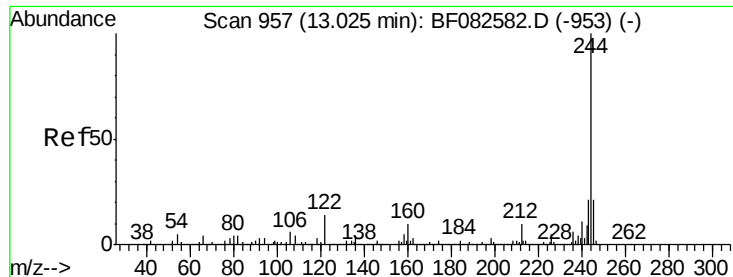


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 80.89 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.02 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

Instrument :

BNA_F

ClientSampled :

DS-1

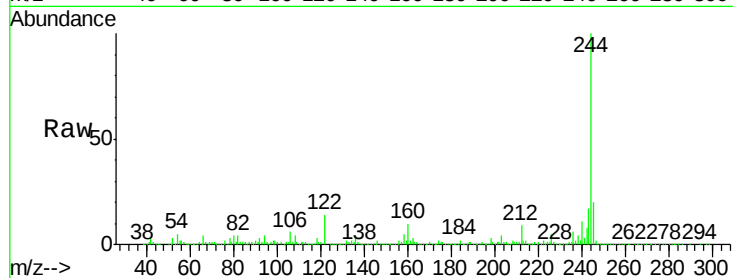
Tot Ion:244 Resp: 1393356

Ion Ratio Lower Upper

244 100

212 9.0 7.6 11.4

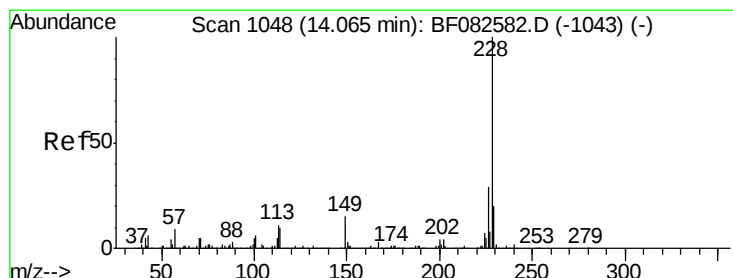
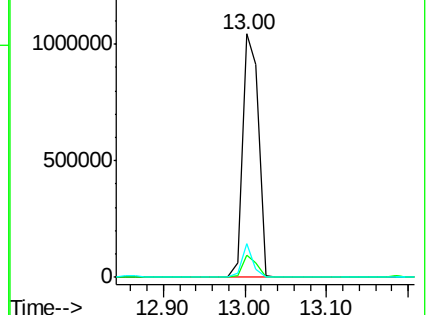
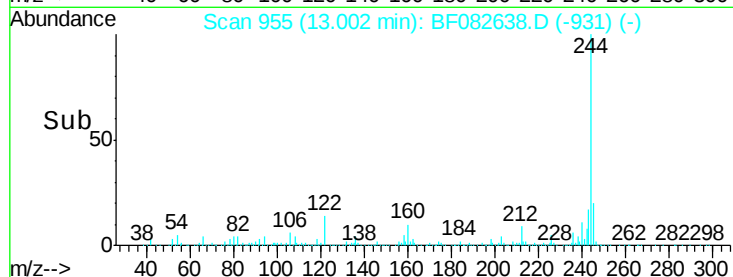
122 14.0 11.3 16.9



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: 41.84 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.02 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

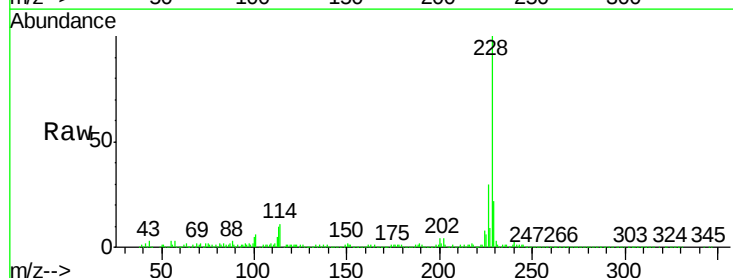
Tgt Ion:228 Resp: 1002065

Ion Ratio Lower Upper

228 100

226 30.4 23.4 35.2

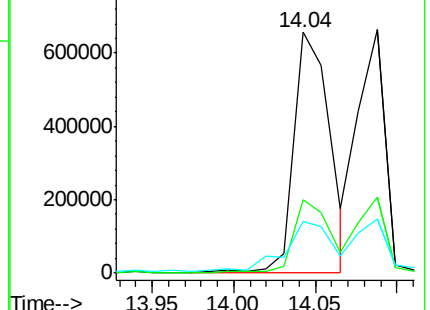
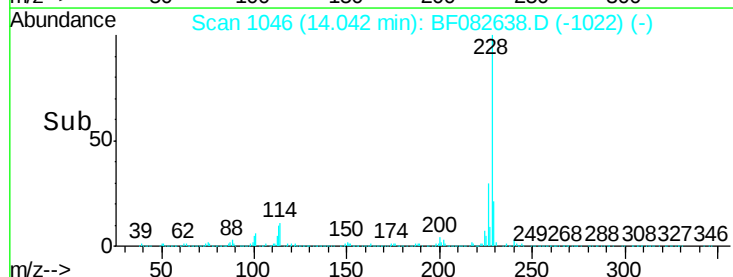
229 21.7 16.3 24.5

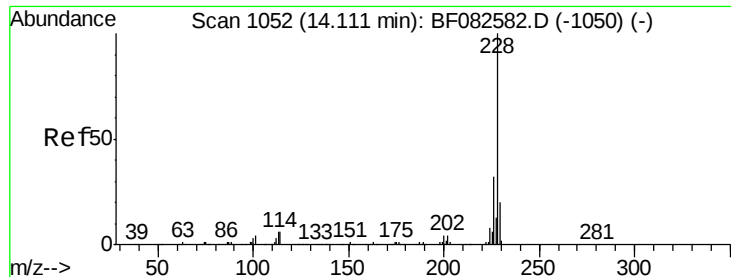


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 35.89 ng

RT: 14.09 min Scan# 1050

Delta R.T. -0.02 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

Instrument :

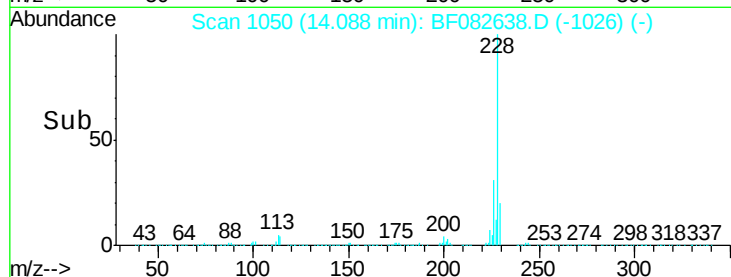
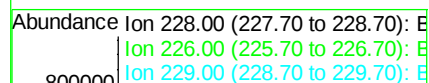
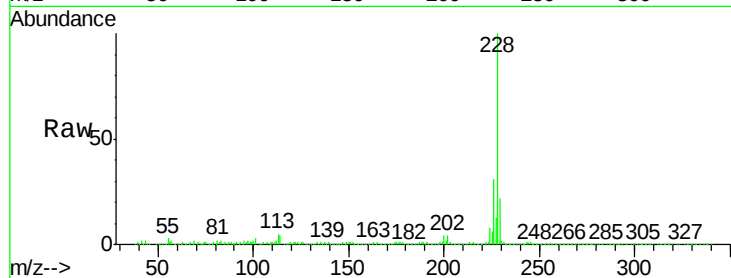
BNA_F

ClientSampleId :

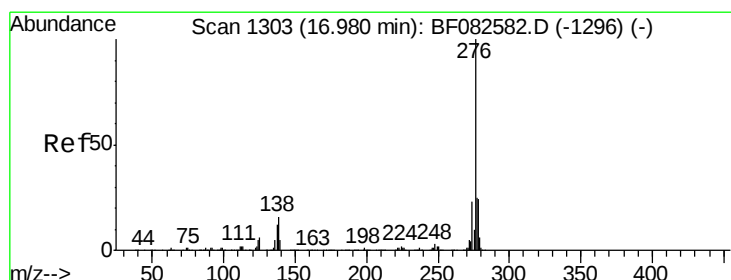
DS-1

Tot Ion:228 Resp: 779049

Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.5	38.3
229	22.1	16.3	24.5



Time-->



#85

Indeno(1,2,3-cd)pyrene

Concen: 19.37 ng

RT: 16.93 min Scan# 1299

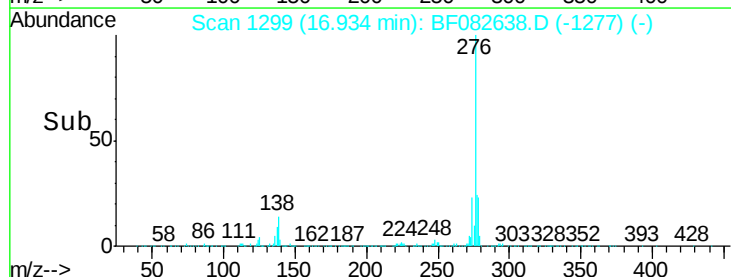
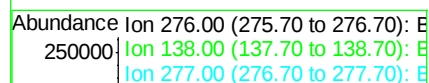
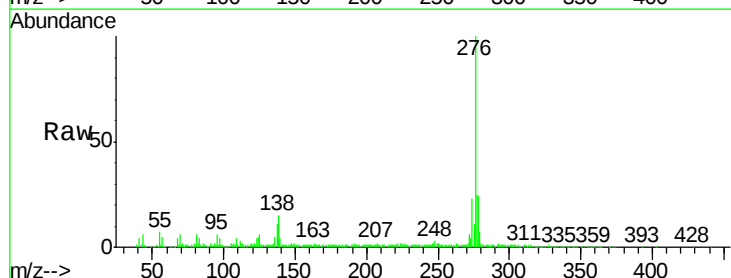
Delta R.T. -0.05 min

Lab File: BF082638.D

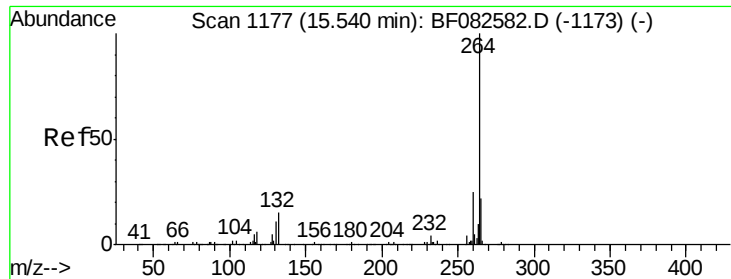
Acq: 2 Nov 2015 18:37

Tgt Ion:276 Resp: 346959

Ion	Ratio	Lower	Upper
276	100		
138	16.1	15.3	22.9
277	30.0	20.2	30.4



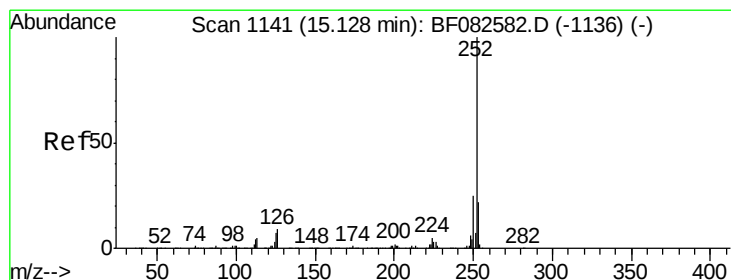
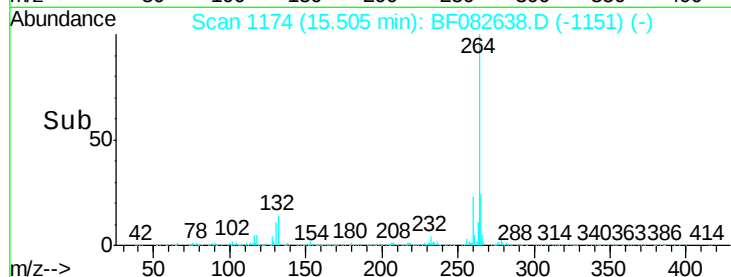
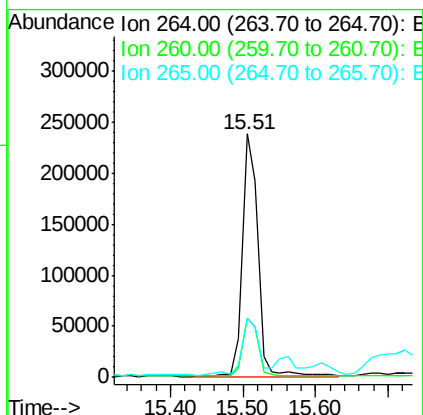
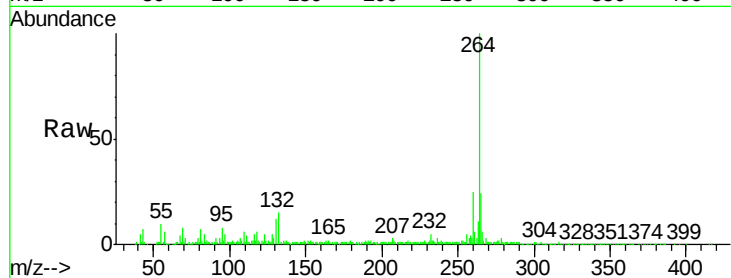
Time-->



#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.51 min Scan# 1174
Delta R.T. -0.03 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

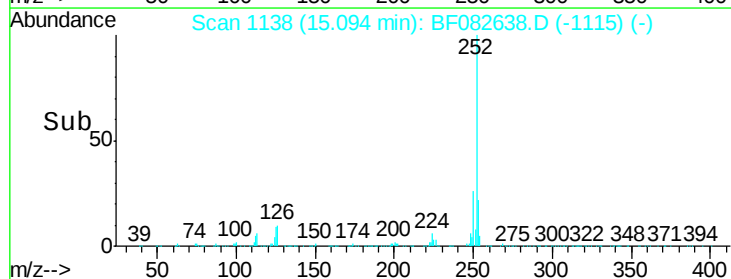
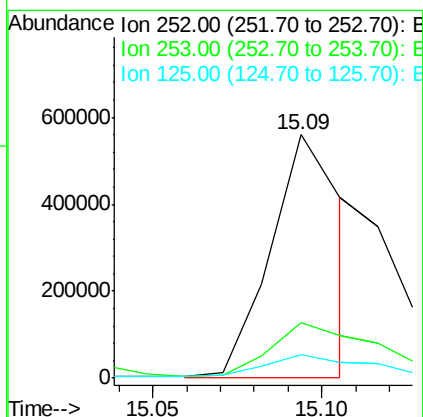
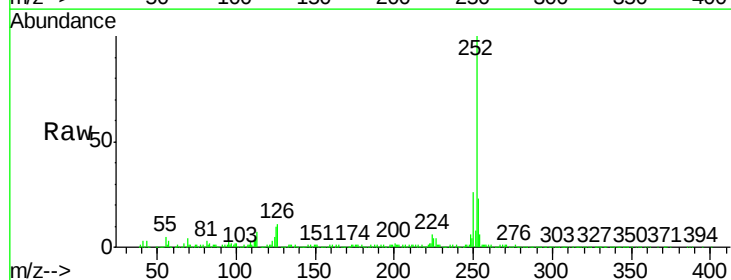
Instrument :
BNA_F
ClientSampleId :
DS-1

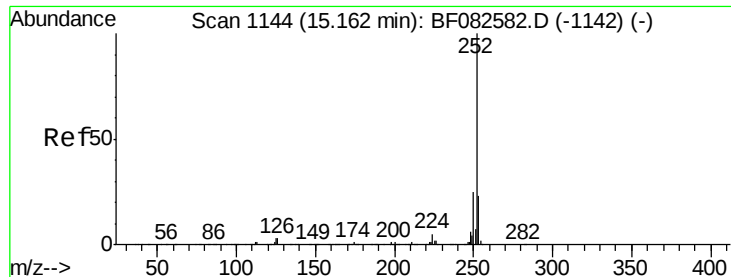
Tot Ion:264 Resp: 357005
Ion Ratio Lower Upper
264 100
260 24.5 19.8 29.6
265 24.4 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 33.65 ng m
RT: 15.09 min Scan# 1138
Delta R.T. -0.03 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:252 Resp: 828352
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 9.7 5.4 8.2#





#88

Benzo(k)fluoranthene

Concen: 18.95 ng/mL

RT: 15.11 min Scan# 1139

Delta R.T. -0.06 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

Instrument :

BNA_F

ClientSampleId :

DS-1

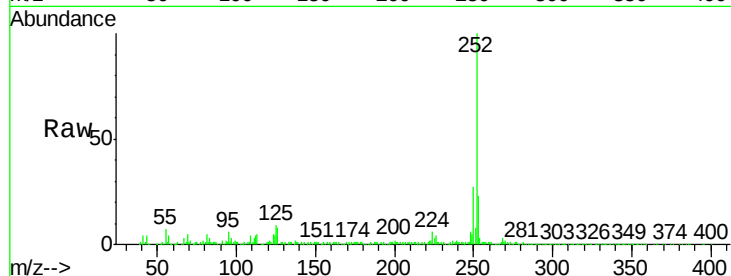
Tot Ion:252 Resp: 355436

Ion Ratio Lower Upper

252 100

253 23.2 17.9 26.9

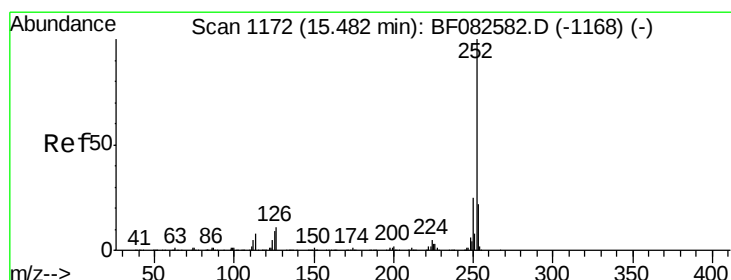
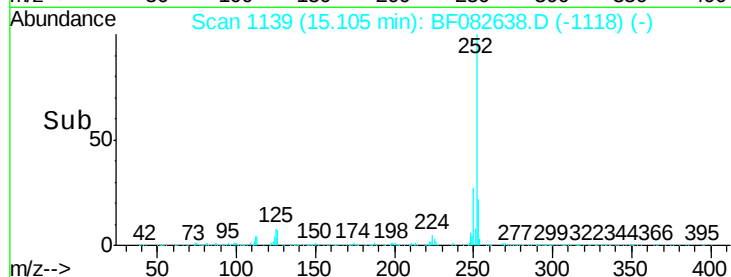
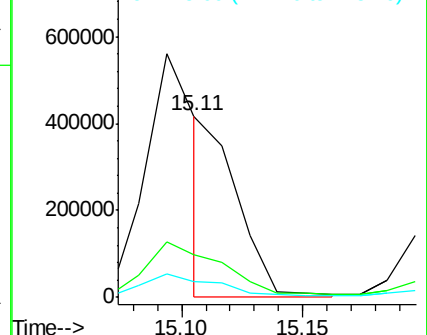
125 8.8 3.5 5.3#



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: 33.93 ng/mL

RT: 15.45 min Scan# 1169

Delta R.T. -0.03 min

Lab File: BF082638.D

Acq: 2 Nov 2015 18:37

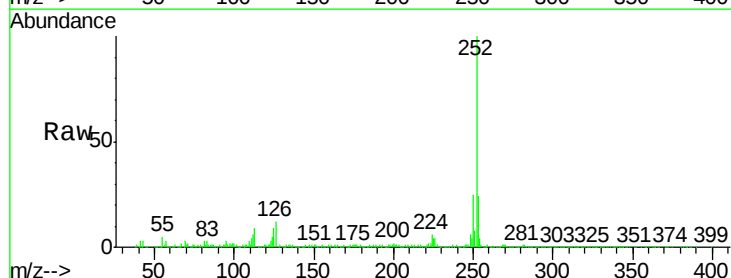
Tgt Ion:252 Resp: 657751

Ion Ratio Lower Upper

252 100

253 23.7 17.3 25.9

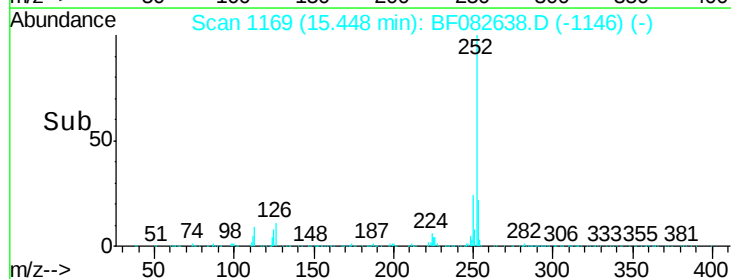
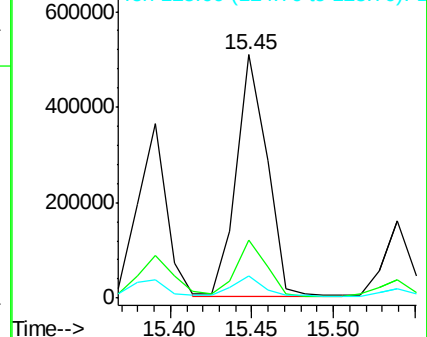
125 9.4 7.1 10.7

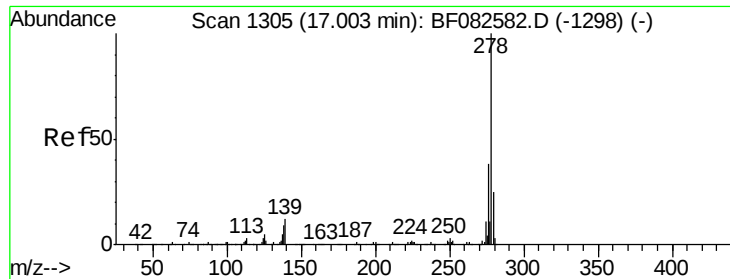


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

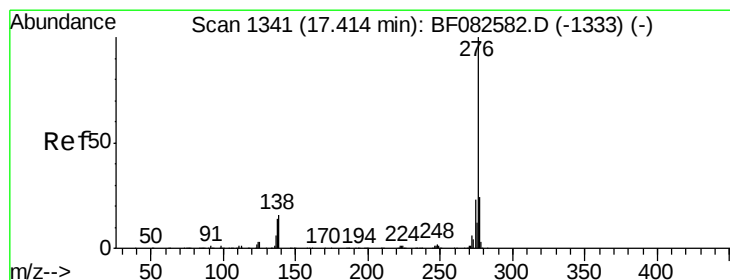
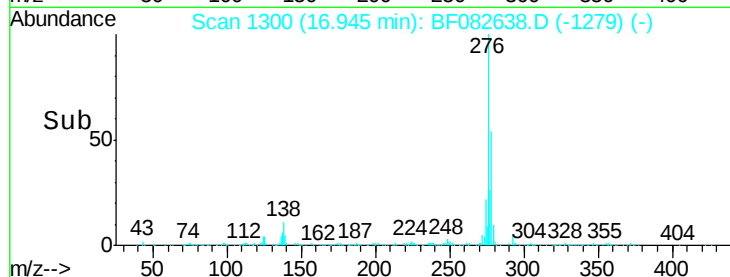
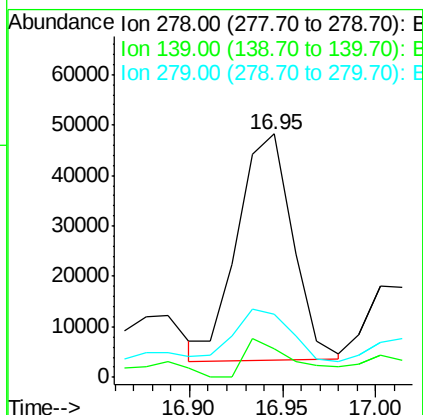
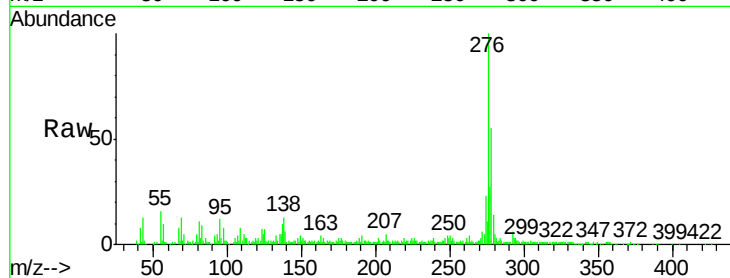




#90
Dibenzo(a,h)anthracene
Concen: 5.12 ng
RT: 16.95 min Scan# 1300
Delta R.T. -0.06 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Instrument :
BNA_F
ClientSampleId :
DS-1

Tot Ion:278 Resp: 92593
Ion Ratio Lower Upper
278 100
139 11.7 9.9 14.9
279 26.1 19.6 29.4



#91
Benzo(g,h,i)perylene
Concen: 19.24 ng
RT: 17.36 min Scan# 1336
Delta R.T. -0.06 min
Lab File: BF082638.D
Acq: 2 Nov 2015 18:37

Tgt Ion:276 Resp: 337298
Ion Ratio Lower Upper
276 100
277 23.6 19.2 28.8
138 15.9 13.1 19.7

