

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110415\
 Data File : BF082689.D
 Acq On : 4 Nov 2015 7:44
 Operator : UM/IZ
 Sample : G4241-01
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-17(3)

Quant Time: Nov 04 12:56:30 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF103015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 03 12:27:47 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	155828	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	580743	20.00	ng	0.00
38) Acenaphthene-d10	9.93	164	233981	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	349096	20.00	ng	0.01
75) Chrysene-d12	14.07	240	385683	20.00	ng	0.01
86) Perylene-d12	15.53	264	378004	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	1435344	138.73	ng	0.01
7) Phenol-d6	6.51	99	1669275	121.45	ng	0.00
23) Nitrobenzene-d5	7.45	82	1356987	95.42	ng	0.00
41) 2,4,6-Tribromophenol	10.73	330	304920	119.08	ng	0.01
44) 2-Fluorobiphenyl	9.25	172	1543872	93.68	ng	0.00
78) Terphenyl-d14	13.02	244	1102465	62.56	ng	0.02

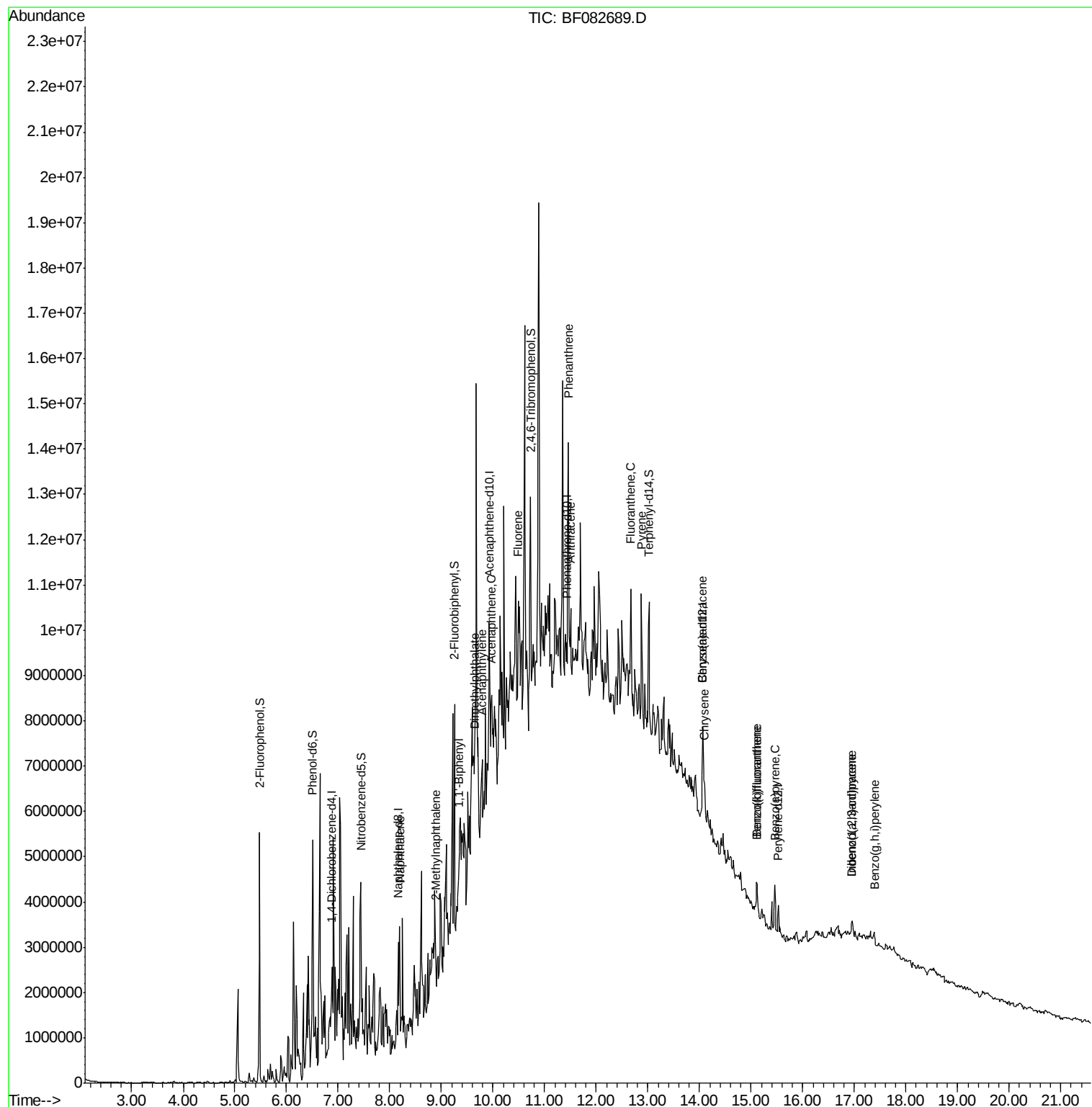
Target Compounds						Qvalue
31) Naphthalene	8.19	128	873092	27.78	ng	100
37) 2-Methylnaphthalene	8.89	142	323262	15.87	ng	96
45) 1,1'-Biphenyl	9.34	154	65228	3.30	ng	85
48) Acenaphthylene	9.79	152	346107	14.02	ng	# 90
49) Dimethylphthalate	9.64	163	339802	17.78	ng	# 96
51) Acenaphthene	9.96	154	538525	34.37	ng	99
57) Fluorene	10.49	166	562894	32.82	ng	# 95
70) Phenanthrene	11.46	178	1896927	96.34	ng	97
71) Anthracene	11.50	178	659779m	33.28	ng	
74) Fluoranthene	12.67	202	917353	45.57	ng	96
77) Pyrene	12.88	202	1718967	60.19	ng	96
80) Benzo(a)anthracene	14.07	228	608169m	24.82	ng	
82) Chrysene	14.10	228	443654m	19.98	ng	
85) Indeno(1,2,3-cd)pyrene	16.96	276	228925	12.49	ng	97
87) Benzo(b)fluoranthene	15.11	252	439242m	16.85	ng	
88) Benzo(k)fluoranthene	15.12	252	187418m	9.44	ng	
89) Benzo(a)pyrene	15.46	252	460430	22.43	ng	# 83
90) Dibenzo(a,h)anthracene	16.96	278	49990m	2.61	ng	
91) Benzo(a,h,i)perylene	17.39	276	266153	14.34	ng	# 95

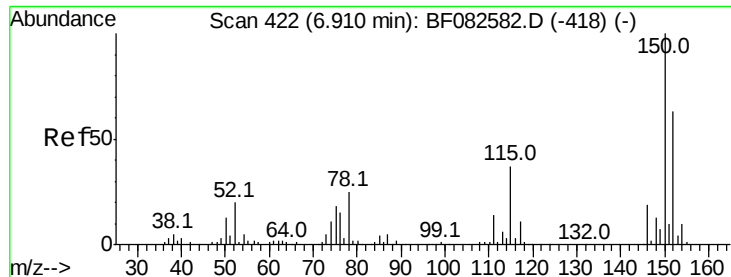
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.88 min Scan# 419

Delta R.T. -0.00 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Instrument :

BNA_F

ClientSampleId :

TP-17(3)

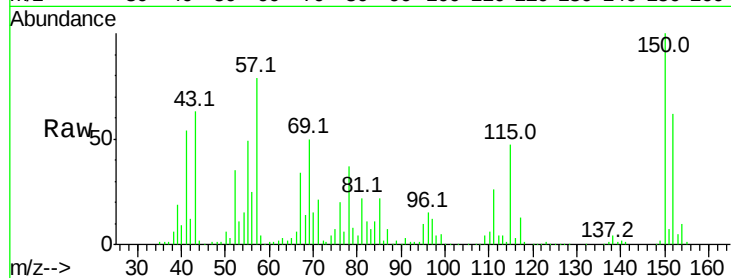
Tot Ion:152 Resp: 155828

Ion Ratio Lower Upper

152 100

150 160.4 127.0 190.4

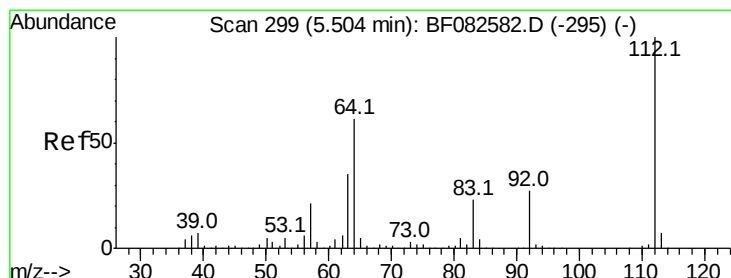
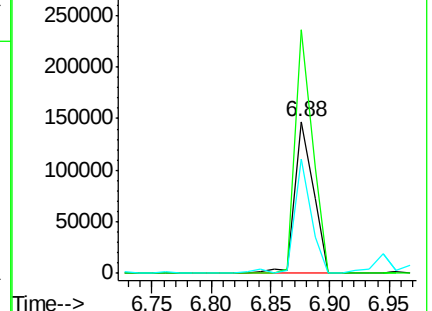
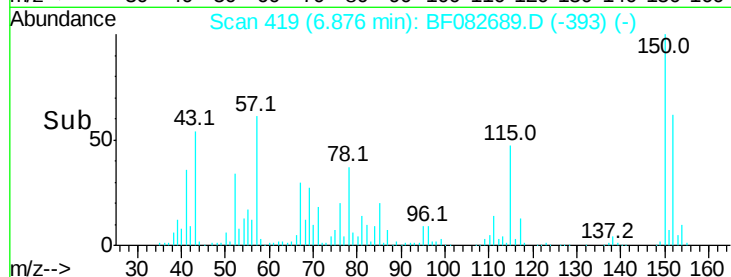
115 75.6 47.0 70.6#



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: 138.73 ng

RT: 5.48 min Scan# 297

Delta R.T. 0.01 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

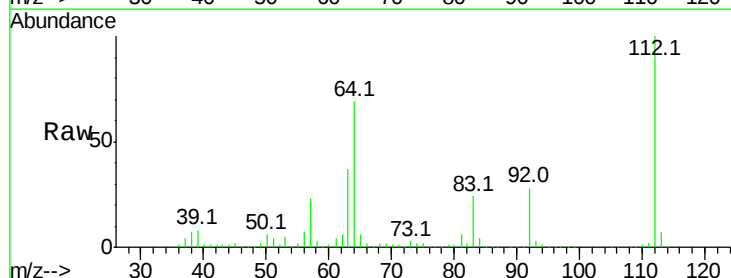
Tgt Ion:112 Resp: 1435344

Ion Ratio Lower Upper

112 100

64 68.6 48.9 73.3

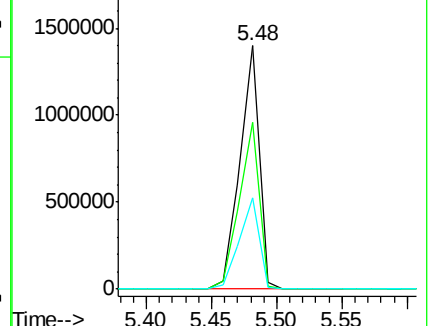
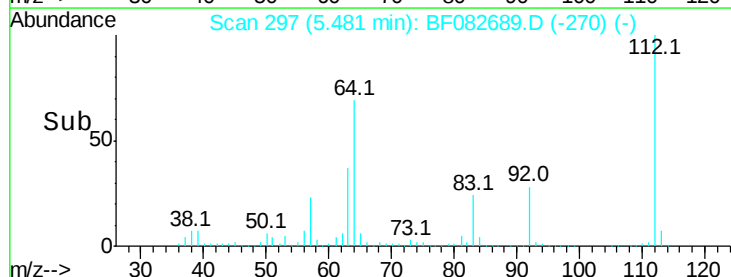
63 37.3 28.1 42.1

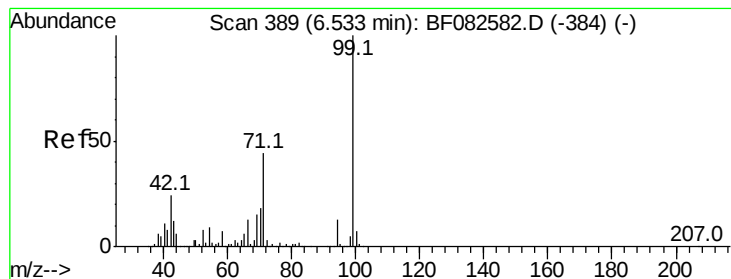


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 121.45 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.00 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Instrument :

BNA_F

ClientSampleId :

TP-17(3)

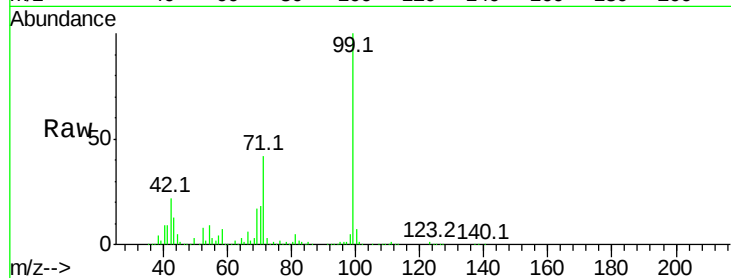
Tot Ion: 99 Resp: 1669275

Ion Ratio Lower Upper

99 100

42 22.4 19.2 28.8

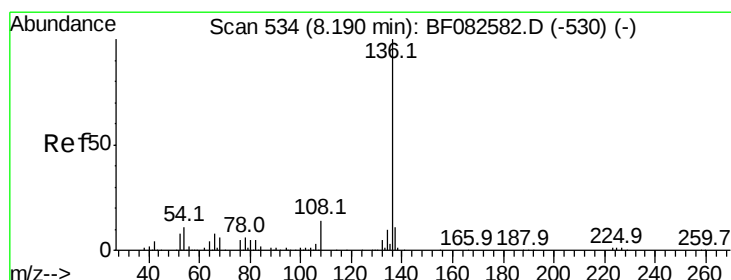
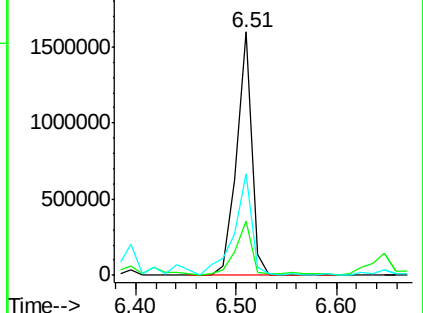
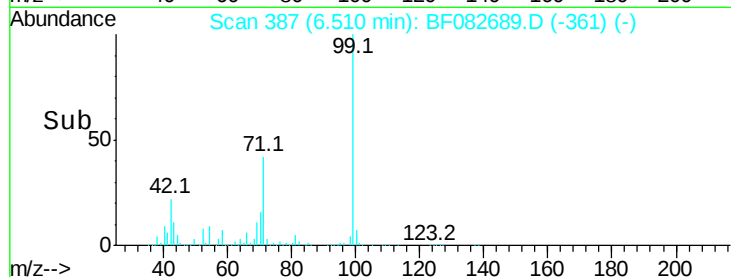
71 41.9 35.0 52.4



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: 8.17 min Scan# 532

Delta R.T. -0.00 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Tgt Ion: 136 Resp: 580743

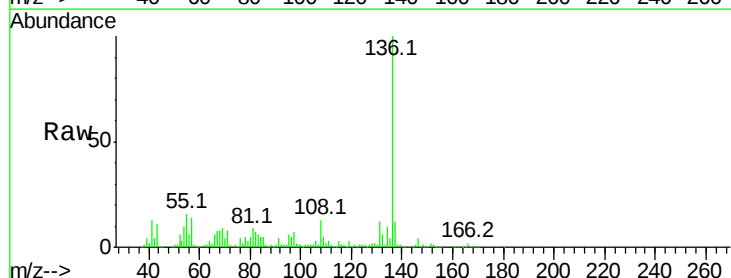
Ion Ratio Lower Upper

136 100

137 11.5 9.1 13.7

54 9.8 9.1 13.7

68 7.9 4.8 7.2#

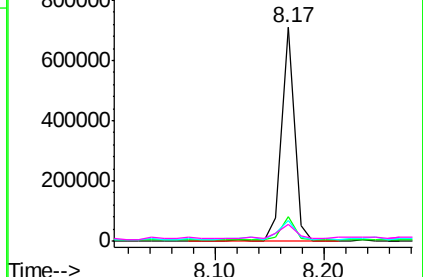
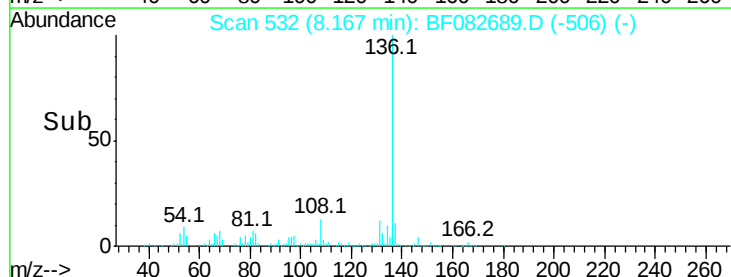


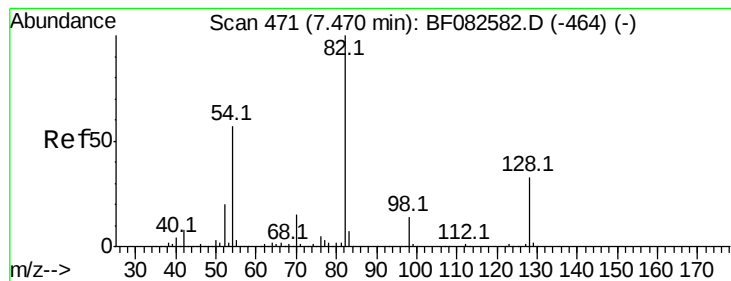
Abundance Ion 136.00 (135.70 to 136.70): E

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: 95.42 ng

RT: 7.45 min Scan# 469

Delta R.T. -0.00 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Instrument :

BNA_F

ClientSampleId :

TP-17(3)

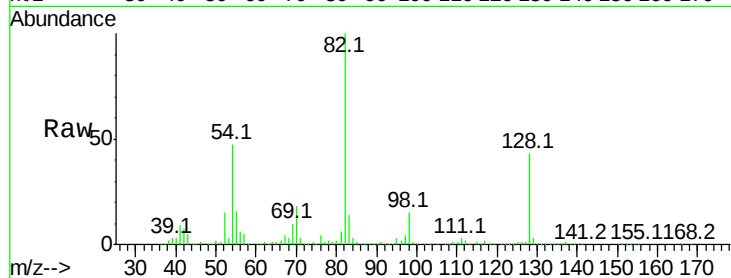
Tot Ion: 82 Resp: 1356987

Ion	Ratio	Lower	Upper
82	100		
128	42.8	26.8	40.2#
54	46.6	45.7	68.5

82 100

128 42.8 26.8 40.2#

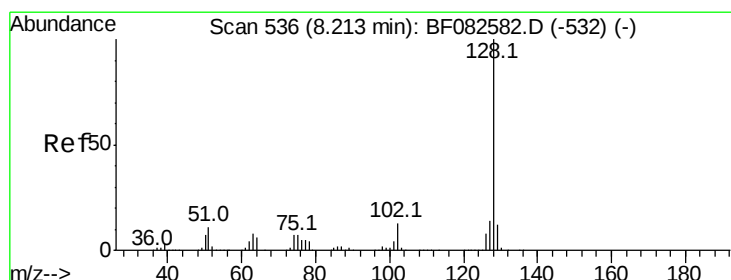
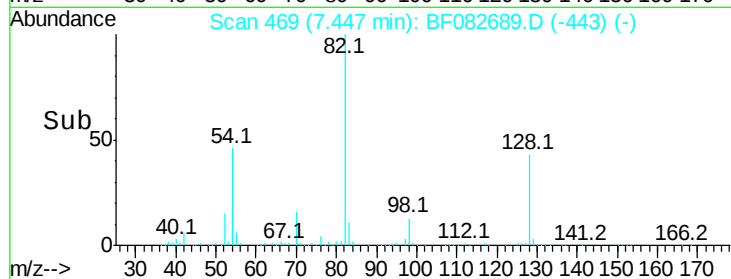
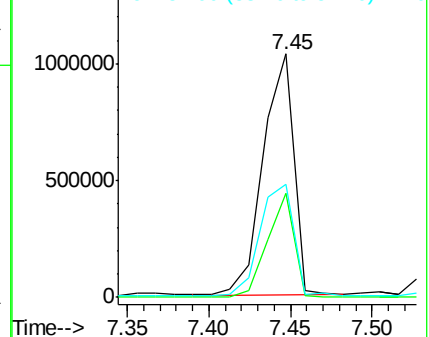
54 46.6 45.7 68.5



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: 27.78 ng

RT: 8.19 min Scan# 534

Delta R.T. -0.00 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

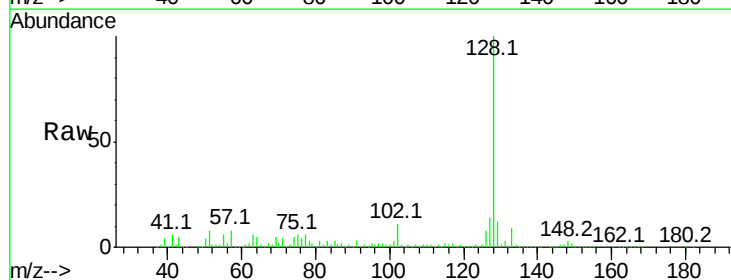
Tgt Ion: 128 Resp: 873092

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.5	14.3
127	14.2	11.4	17.0

128 100

129 11.5 9.5 14.3

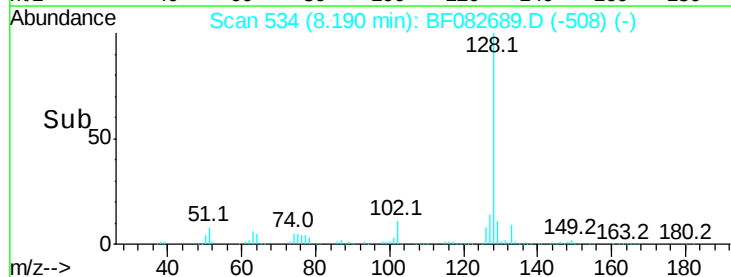
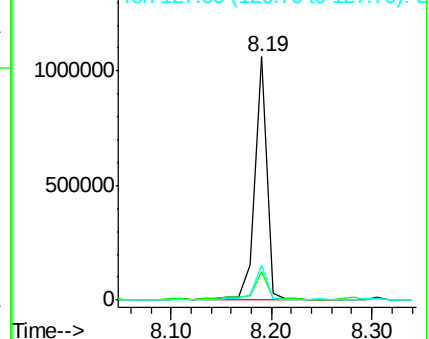
127 14.2 11.4 17.0

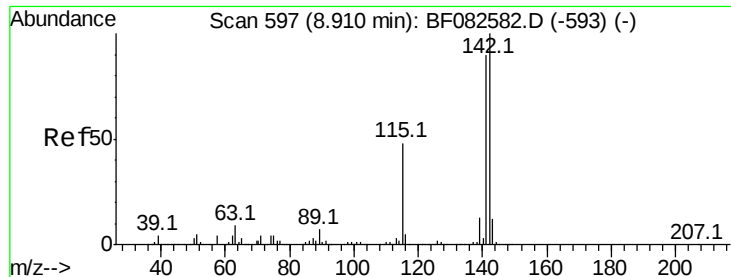


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

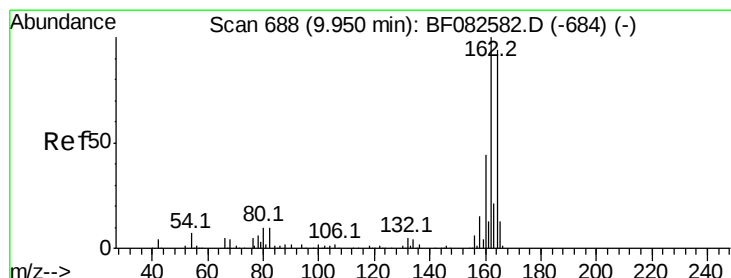
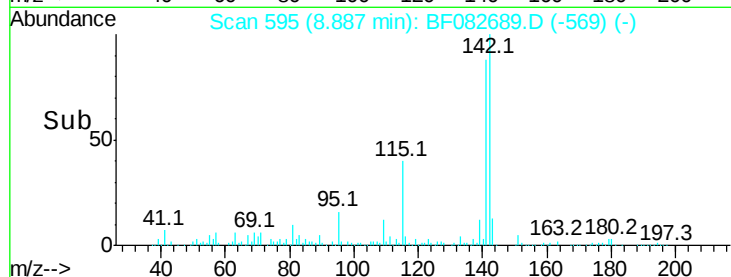
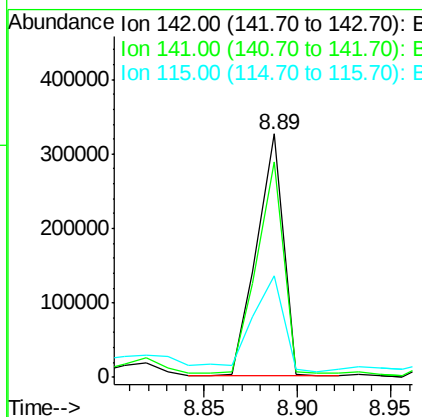
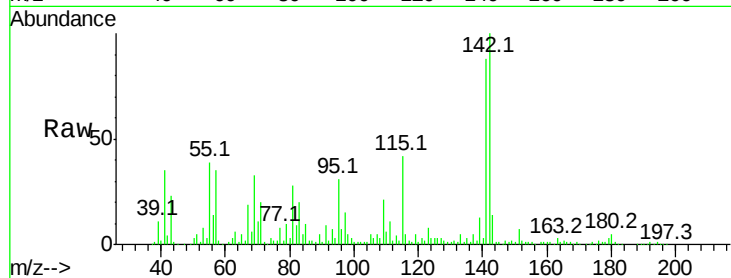




#37
2-Methylnaphthalene
Concen: 15.87 ng
RT: 8.89 min Scan# 595
Delta R.T. -0.00 min
Lab File: BF082689.D
Acq: 4 Nov 2015 7:44

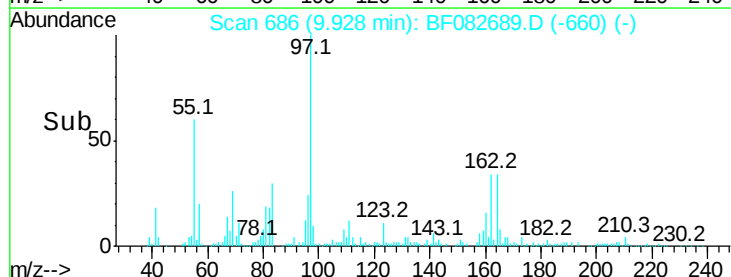
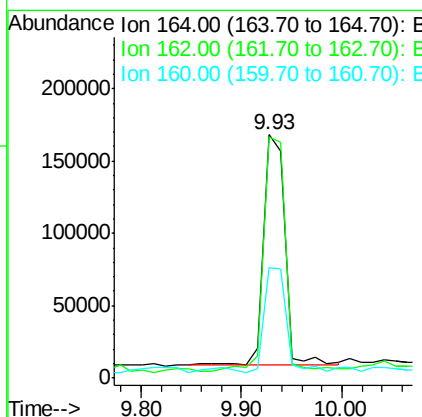
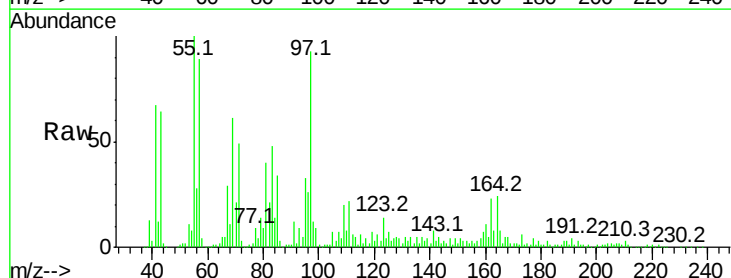
Instrument :
BNA_F
ClientSampleId :
TP-17(3)

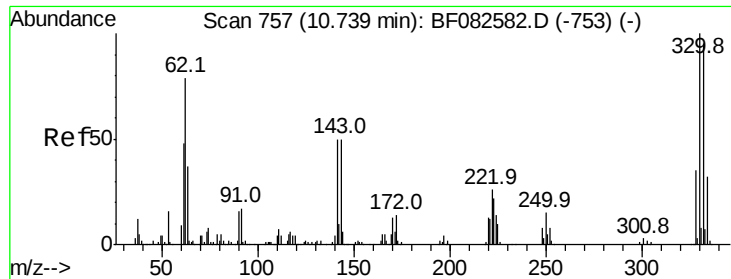
Tot Ion:142 Resp: 323262
Ion Ratio Lower Upper
142 100
141 88.4 72.3 108.5
115 41.6 38.1 57.1



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.93 min Scan# 686
Delta R.T. -0.00 min
Lab File: BF082689.D
Acq: 4 Nov 2015 7:44

Tgt Ion:164 Resp: 233981
Ion Ratio Lower Upper
164 100
162 98.9 84.9 127.3
160 45.4 37.5 56.3

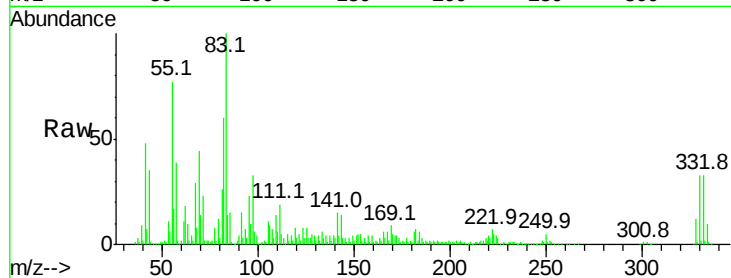




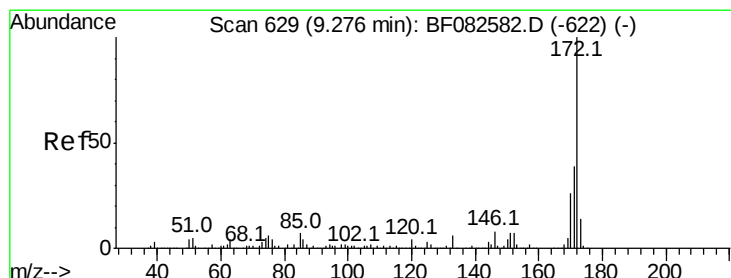
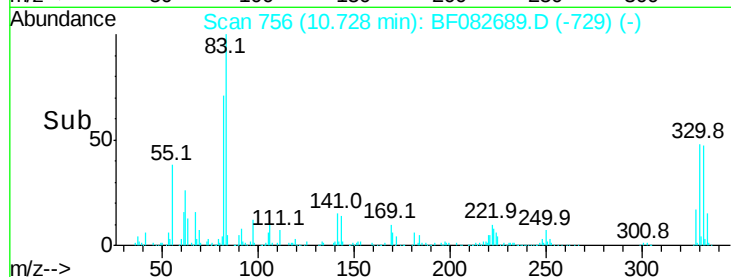
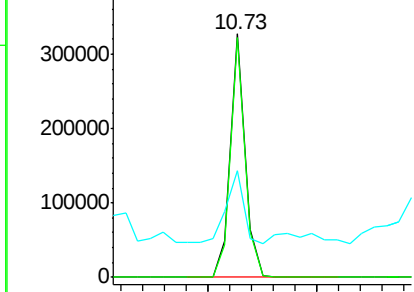
#41
 2,4,6-Tribromophenol
 Concen: 119.08 ng
 RT: 10.73 min Scan# 756
 Delta R.T. 0.01 min
 Lab File: BF082689.D
 Acq: 4 Nov 2015 7:44

Instrument :
 BNA_F
 ClientSampleId :
 TP-17(3)

Tot Ion:330 Resp: 304920
 Ion Ratio Lower Upper
 330 100
 332 97.4 76.6 114.8
 141 35.3 41.2 61.8#

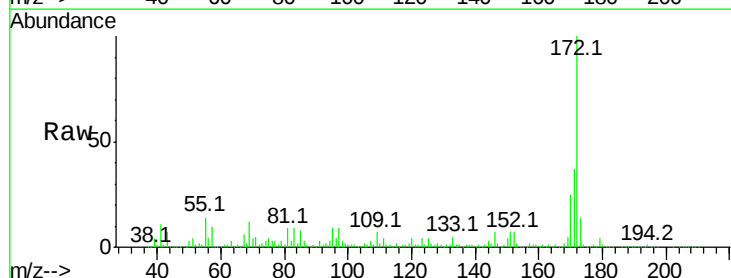


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

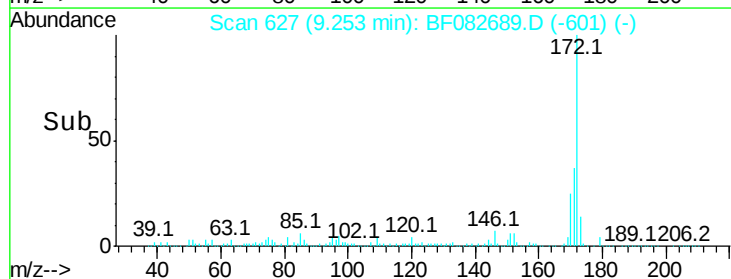
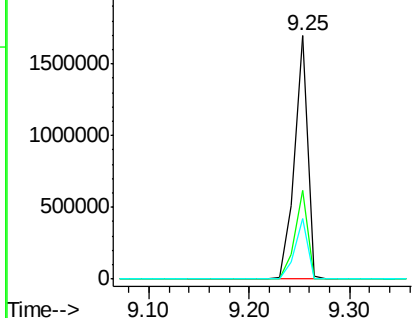


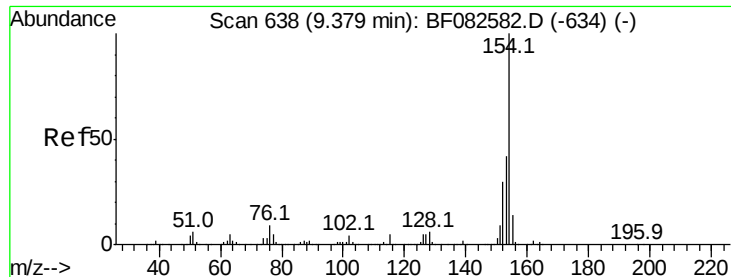
#44
 2-Fluorobiphenyl
 Concen: 93.68 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.00 min
 Lab File: BF082689.D
 Acq: 4 Nov 2015 7:44

Tgt Ion:172 Resp: 1543872
 Ion Ratio Lower Upper
 172 100
 171 36.5 30.8 46.2
 170 24.9 21.2 31.8



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





#45

1,1'-Biphenyl

Concen: 3.30 ng

RT: 9.34 min Scan# 635

Delta R.T. -0.00 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Instrument :

BNA_F

ClientSampleId :

TP-17(3)

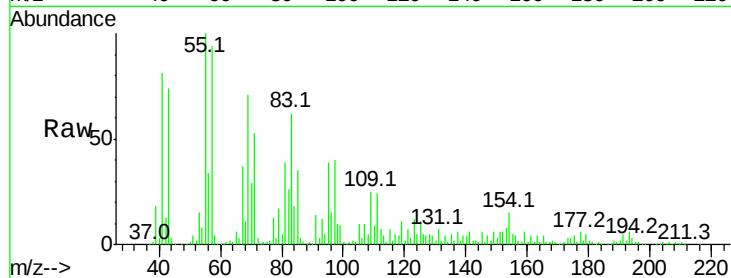
Tot Ion:154 Resp: 65228

Ion Ratio Lower Upper

154 100

153 51.0 22.0 62.0

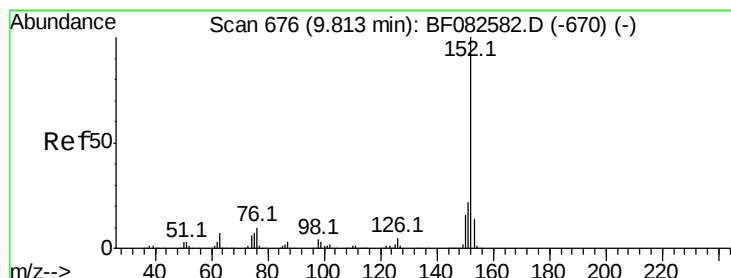
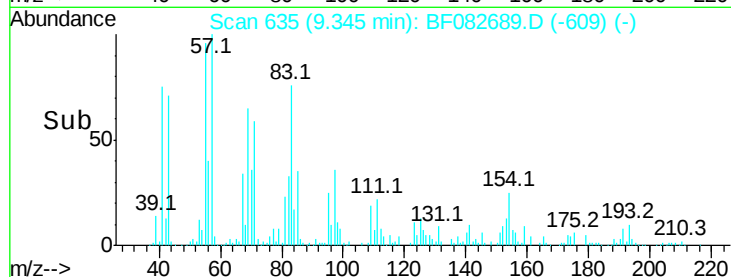
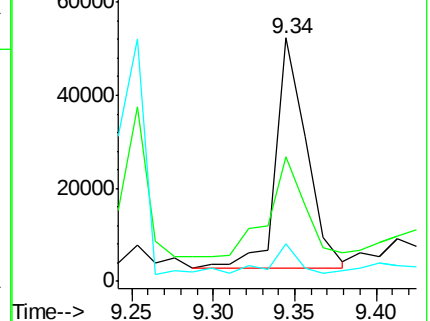
76 15.4 0.0 29.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): E



#48

Acenaphthylene

Concen: 14.02 ng

RT: 9.79 min Scan# 674

Delta R.T. -0.00 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

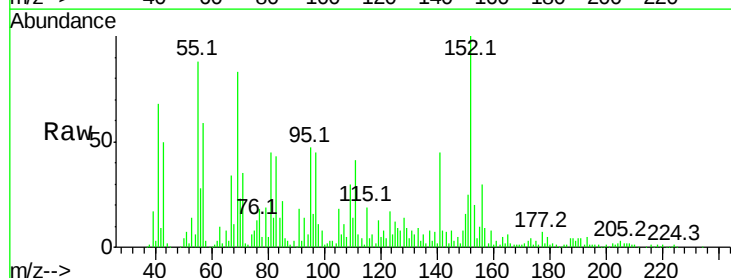
Tgt Ion:152 Resp: 346107

Ion Ratio Lower Upper

152 100

151 25.1 17.3 25.9

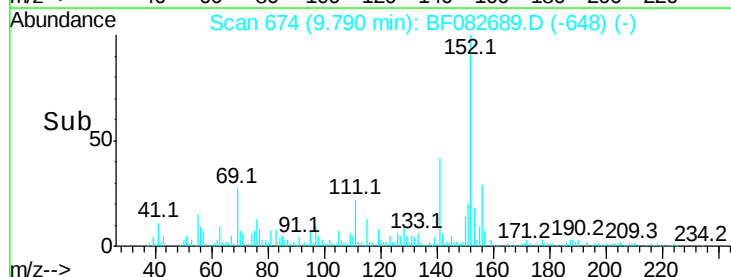
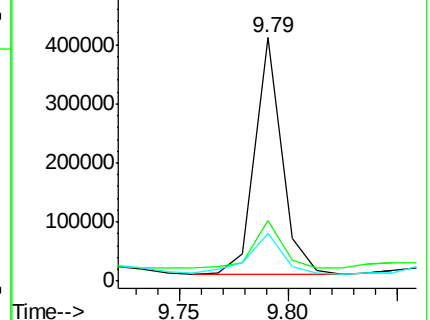
153 19.6 11.3 16.9#

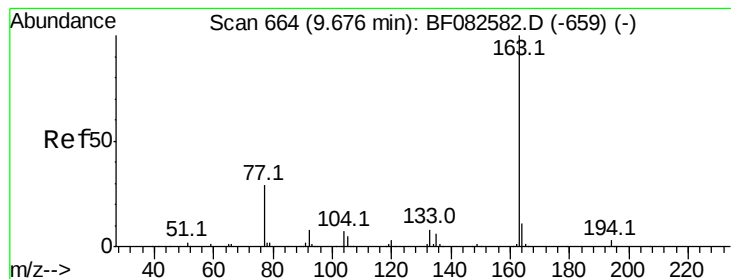


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 17.78 ng

RT: 9.64 min Scan# 661

Delta R.T. -0.01 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Instrument :

BNA_F

ClientSampled :

TP-17(3)

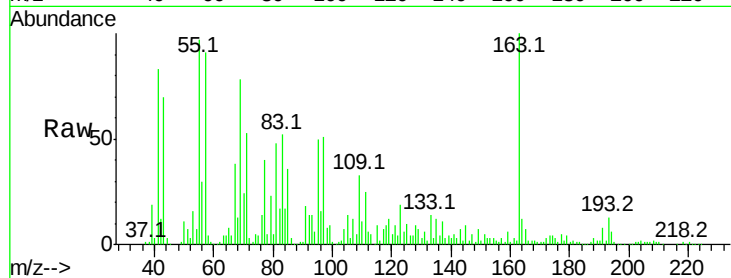
Tot Ion:163 Resp: 339802

Ion Ratio Lower Upper

163 100

194 5.8 2.6 4.0#

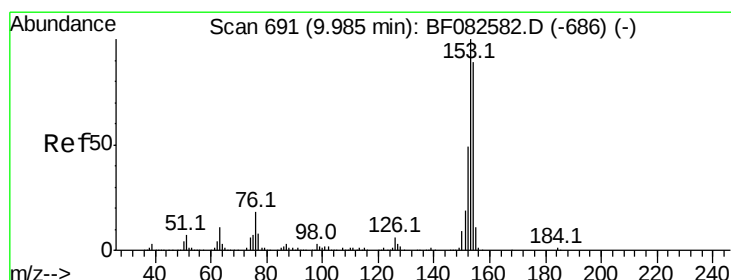
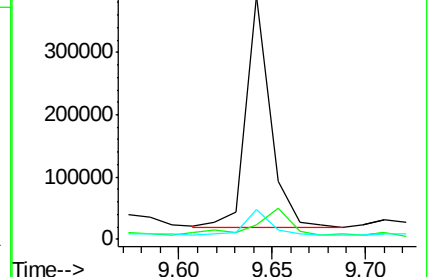
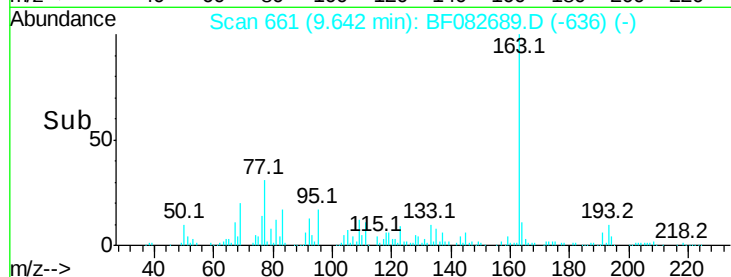
164 12.1 8.7 13.1



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: 34.37 ng

RT: 9.96 min Scan# 689

Delta R.T. -0.00 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

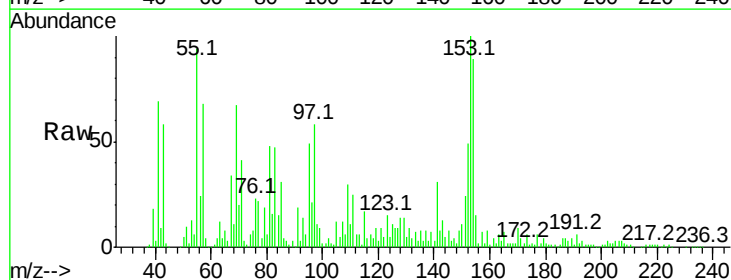
Tgt Ion:154 Resp: 538525

Ion Ratio Lower Upper

154 100

153 111.8 90.1 135.1

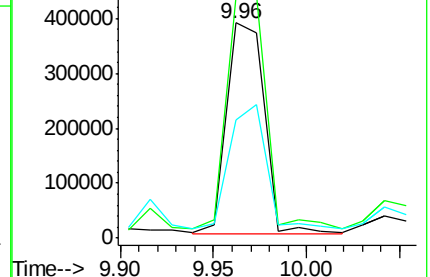
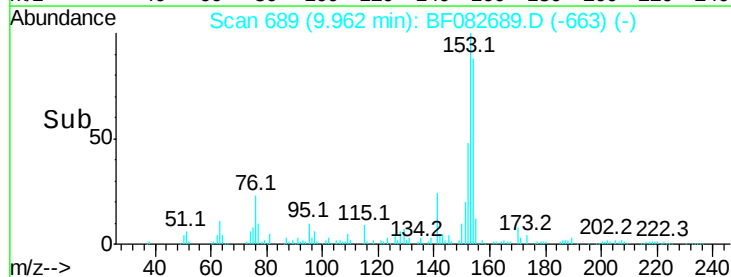
152 55.2 44.3 66.5

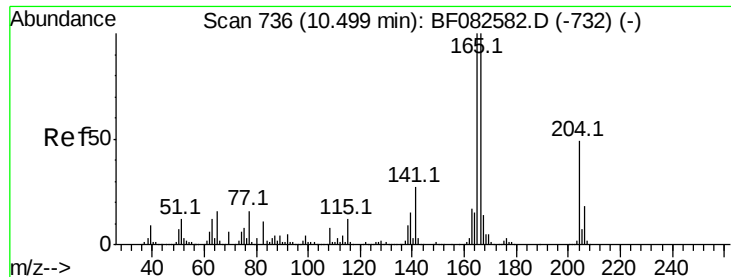


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#57

Fluorene

Concen: 32.82 ng

RT: 10.49 min Scan# 735

Delta R.T. 0.01 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Instrument :

BNA_F

ClientSampleId :

TP-17(3)

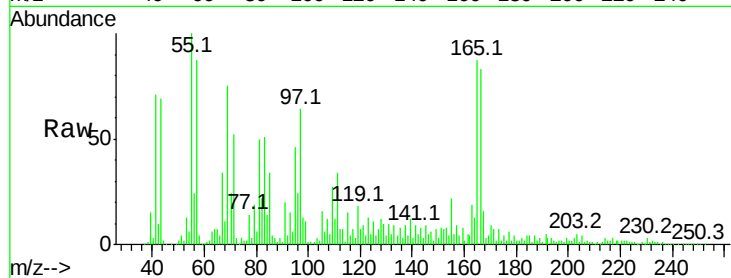
Tot Ion:166 Resp: 562894

Ion Ratio Lower Upper

166 100

165 104.6 80.2 120.4

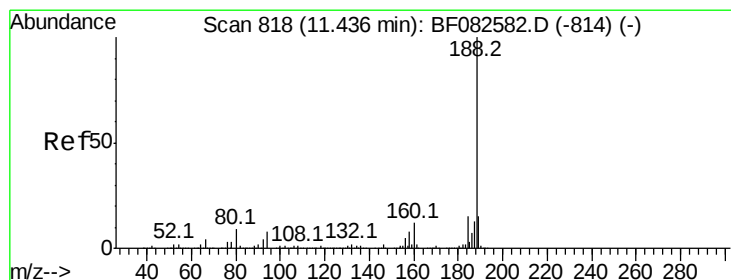
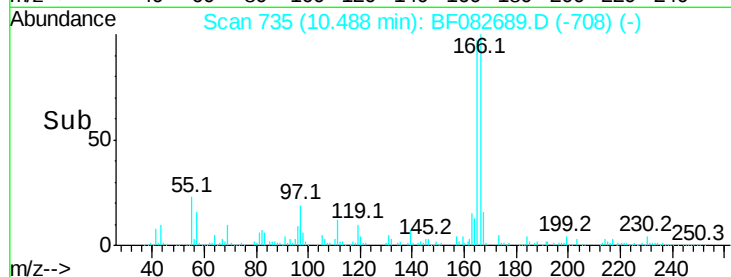
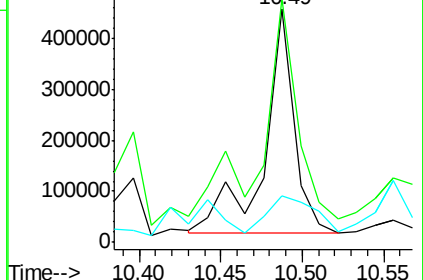
167 19.8 11.2 16.8#



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: 11.42 min Scan# 817

Delta R.T. 0.01 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

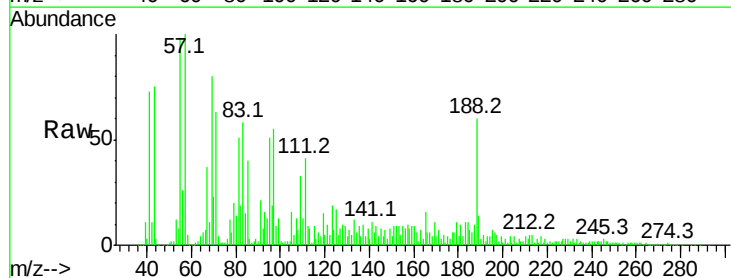
Tgt Ion:188 Resp: 349096

Ion Ratio Lower Upper

188 100

94 21.7 6.1 9.1#

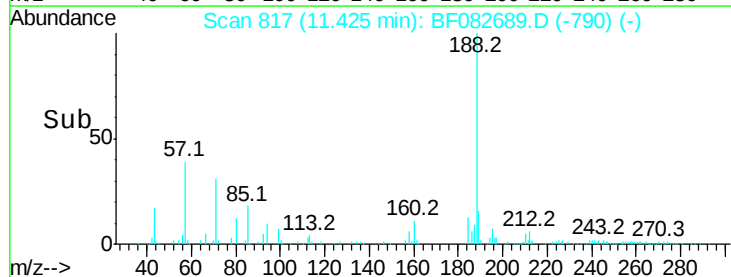
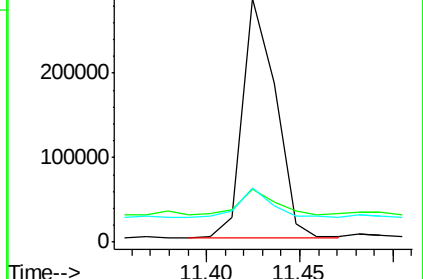
80 22.5 7.0 10.6#

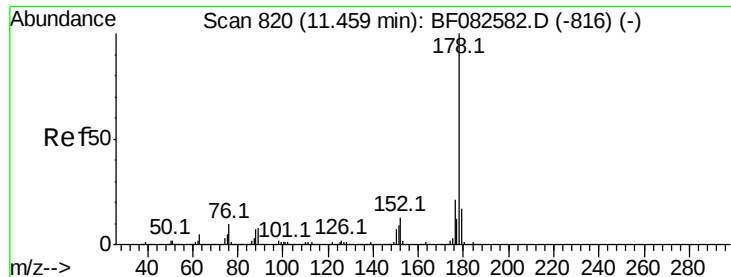


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 96.34 ng

RT: 11.46 min Scan# 820

Delta R.T. 0.02 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Instrument :

BNA_F

ClientSampleId :

TP-17(3)

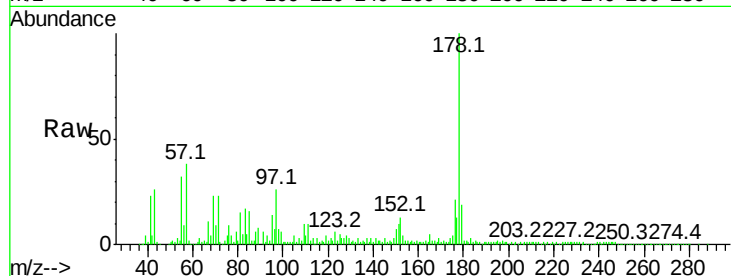
Tot Ion:178 Resp: 1896927

Ion Ratio Lower Upper

178 100

176 21.1 17.0 25.4

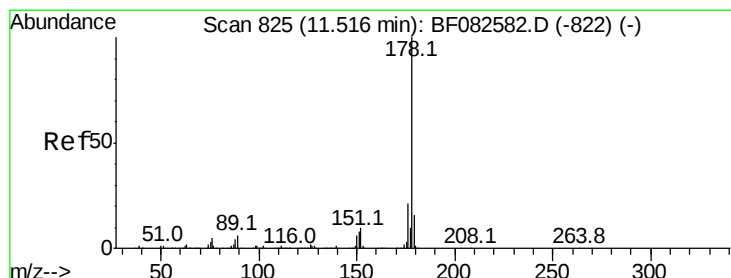
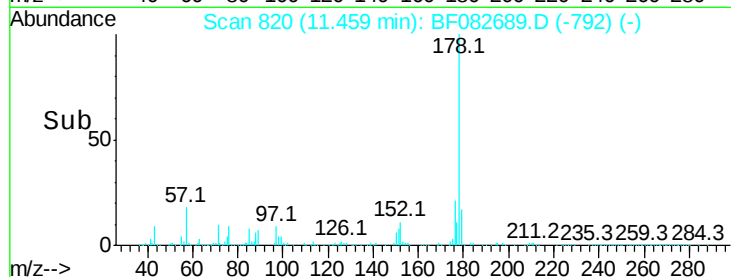
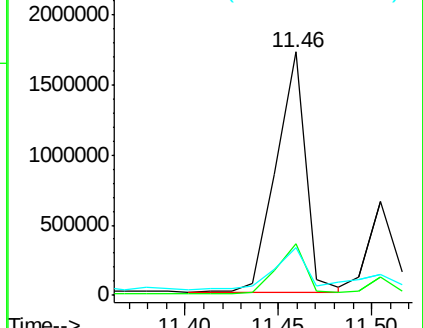
179 19.5 13.4 20.0



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: 33.28 ng m

RT: 11.50 min Scan# 824

Delta R.T. 0.02 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

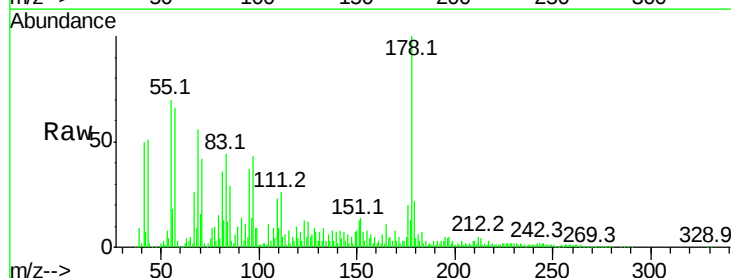
Tgt Ion:178 Resp: 659779

Ion Ratio Lower Upper

178 100

176 19.9 16.5 24.7

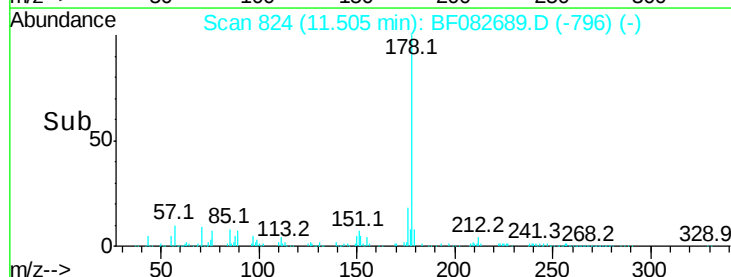
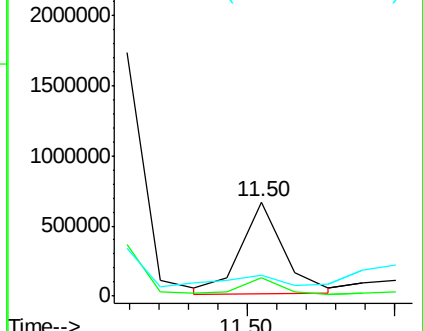
179 22.4 13.2 19.8#

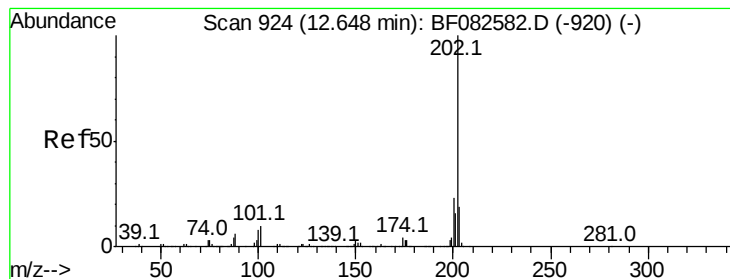


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 45.57 ng

RT: 12.67 min Scan# 926

Delta R.T. 0.05 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Instrument :

BNA_F

ClientSampleId :

TP-17(3)

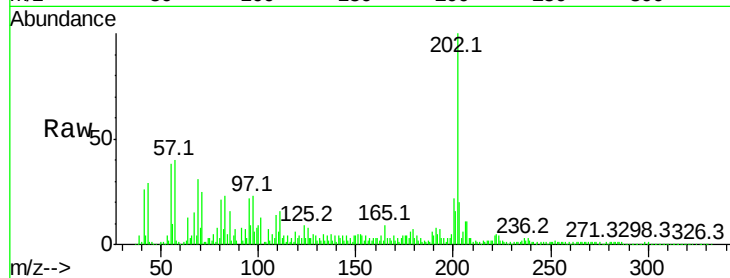
Tot Ion:202 Resp: 917353

Ion Ratio Lower Upper

202 100

101 12.6 0.0 30.5

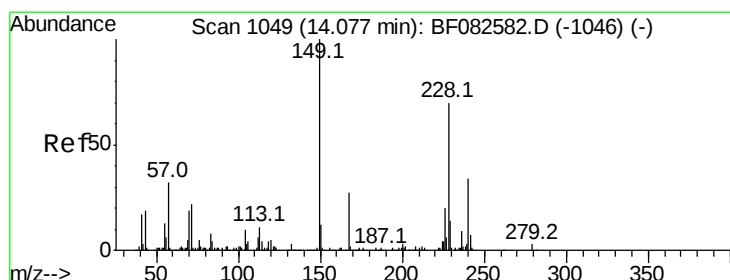
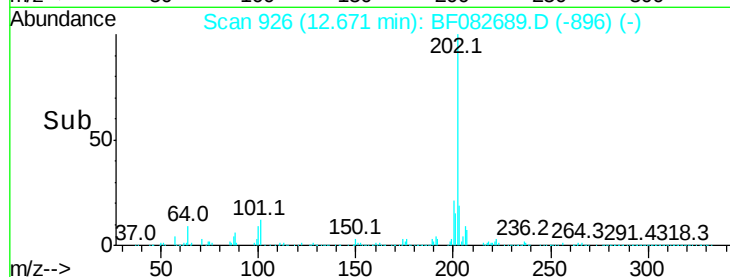
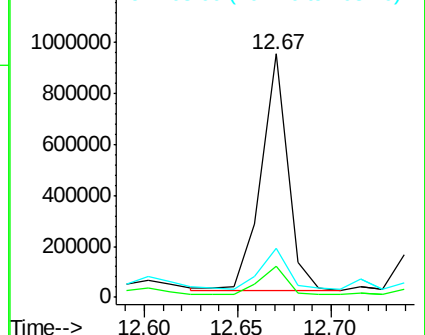
203 20.2 0.0 38.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.07 min Scan# 1048

Delta R.T. 0.01 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

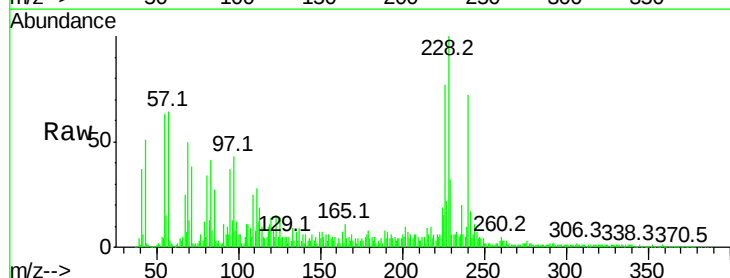
Tgt Ion:240 Resp: 385683

Ion Ratio Lower Upper

240 100

120 19.4 10.9 16.3#

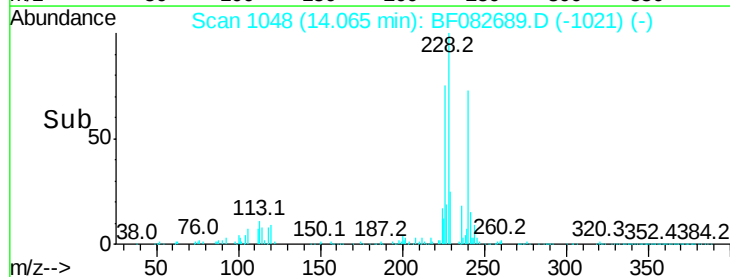
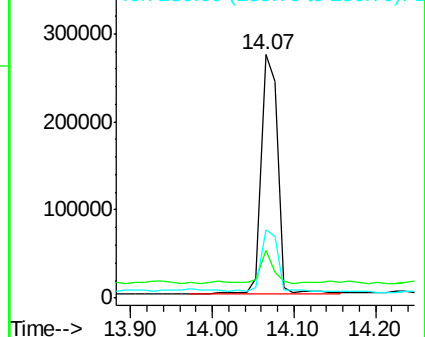
236 28.2 21.6 32.4

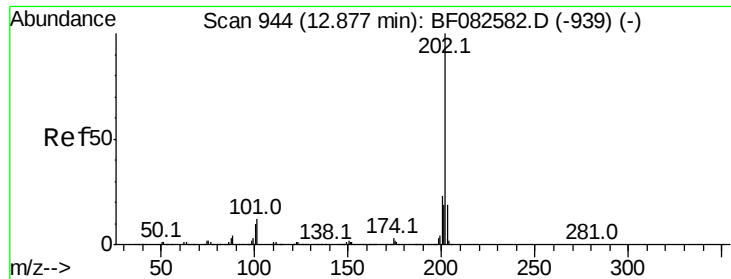


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

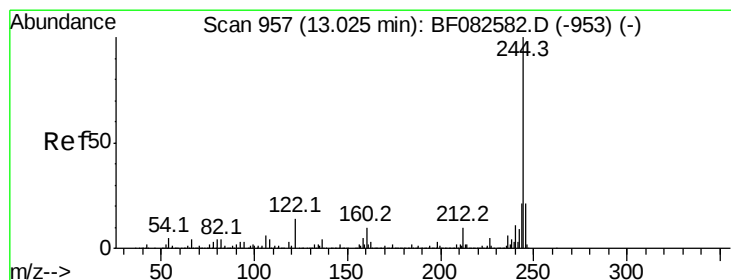
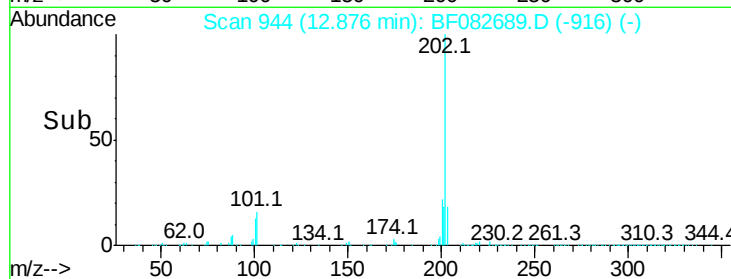
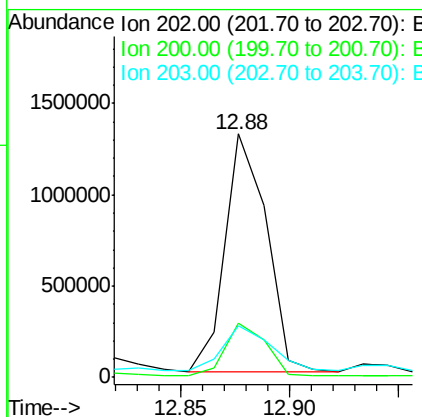
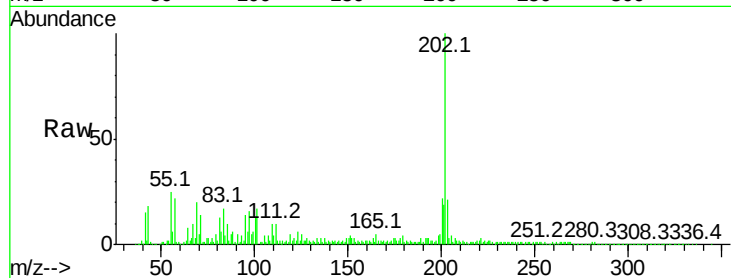




#77
Pvrene
Concen: 60.19 ng
RT: 12.88 min Scan# 944
Delta R.T. 0.02 min
Lab File: BF082689.D
Acq: 4 Nov 2015 7:44

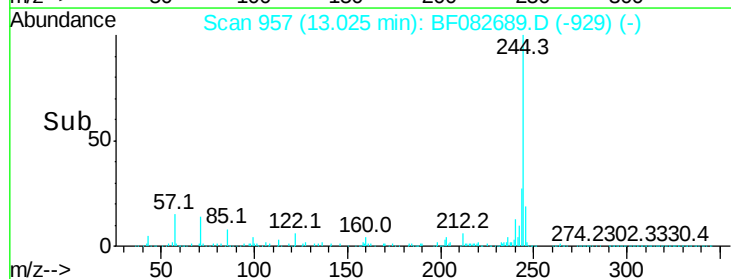
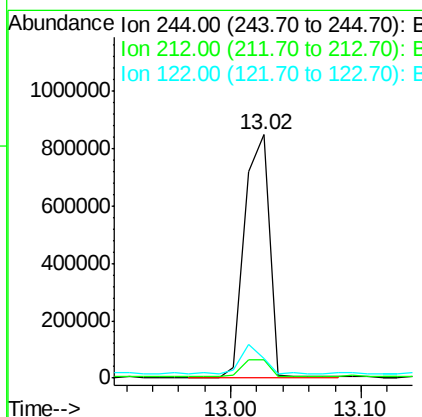
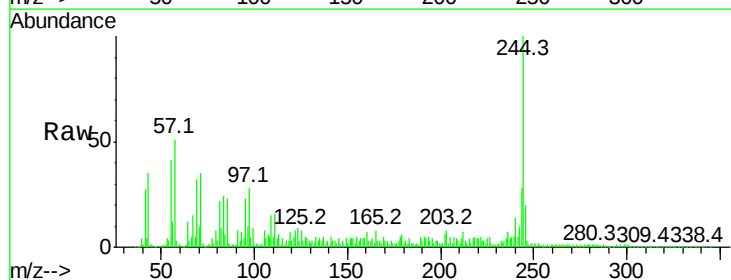
Instrument :
BNA_F
ClientSampleId :
TP-17(3)

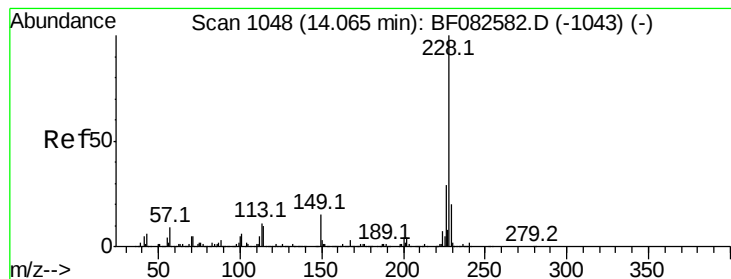
Tot Ion:202 Resp: 1718967
Ion Ratio Lower Upper
202 100
200 22.5 18.7 28.1
203 21.1 14.8 22.2



#78
Terphenyl-d14
Concen: 62.56 ng
RT: 13.02 min Scan# 957
Delta R.T. 0.02 min
Lab File: BF082689.D
Acq: 4 Nov 2015 7:44

Tgt Ion:244 Resp: 1102465
Ion Ratio Lower Upper
244 100
212 7.4 7.6 11.4#
122 7.9 11.3 16.9#





#80

Benzo(a)anthracene

Concen: 24.82 ng m

RT: 14.07 min Scan# 1048

Delta R.T. 0.02 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Instrument :

BNA_F

ClientSampleId :

TP-17(3)

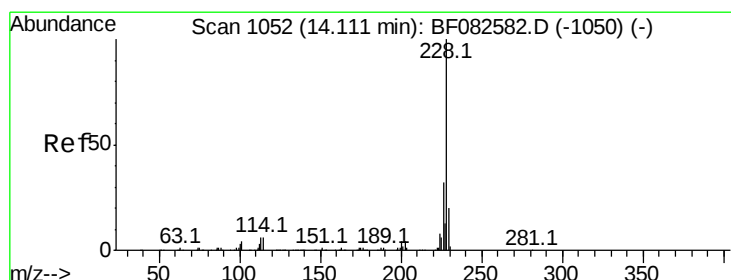
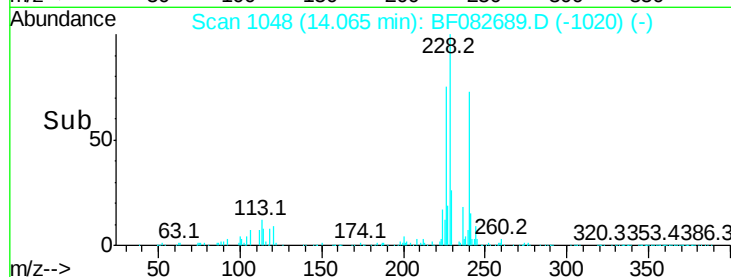
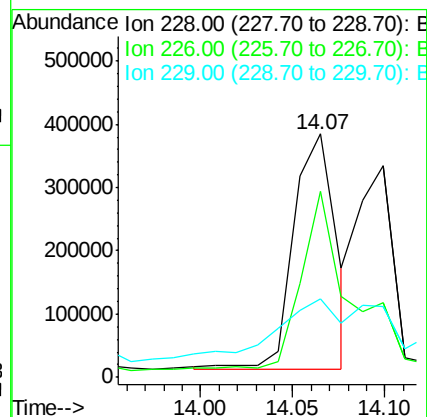
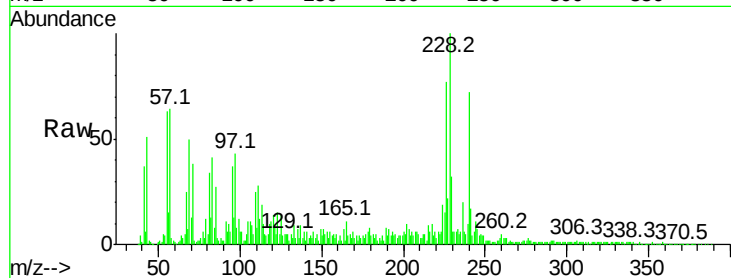
Tot Ion:228 Resp: 608169

Ion Ratio Lower Upper

228 100

226 76.5 23.4 35.2#

229 32.3 16.3 24.5#



#82

Chrysene

Concen: 19.98 ng m

RT: 14.10 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

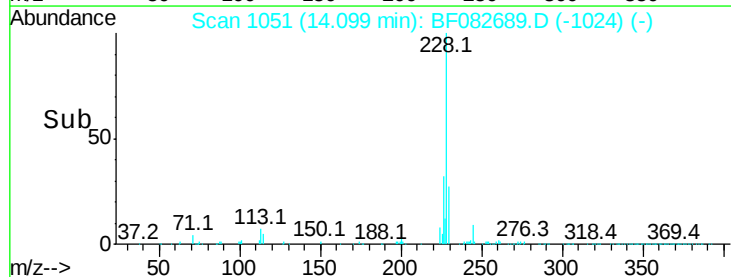
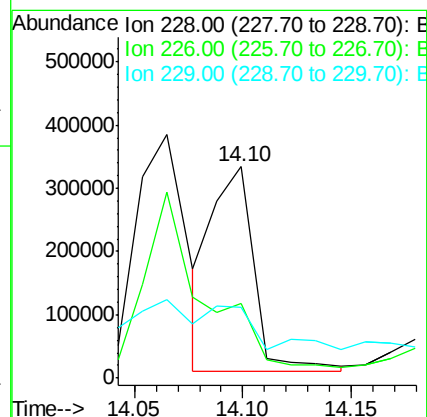
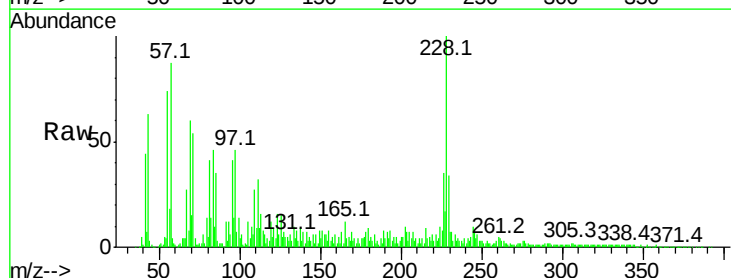
Tgt Ion:228 Resp: 443654

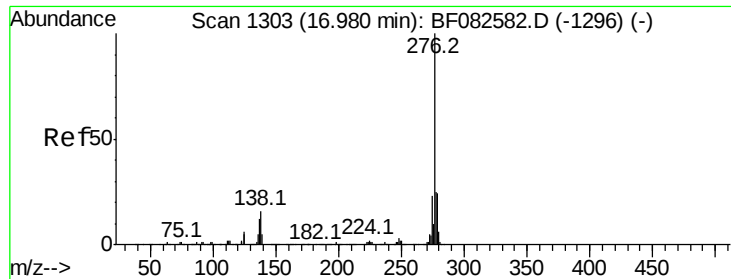
Ion Ratio Lower Upper

228 100

226 35.3 25.5 38.3

229 33.7 16.3 24.5#

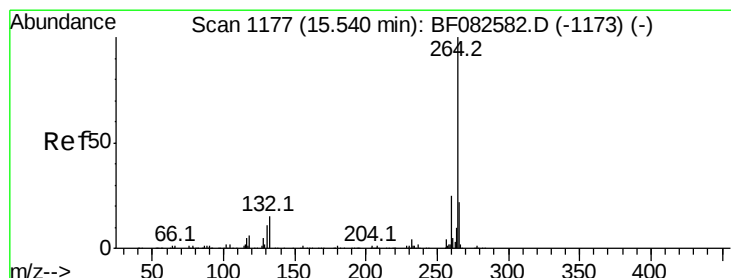
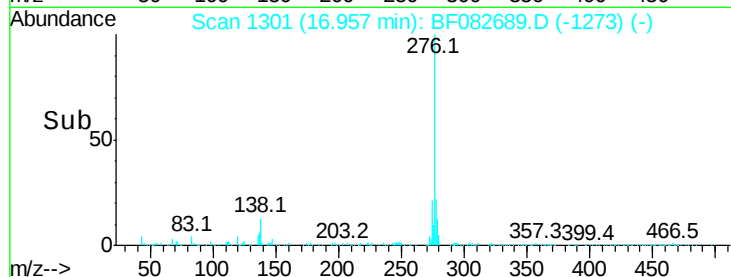
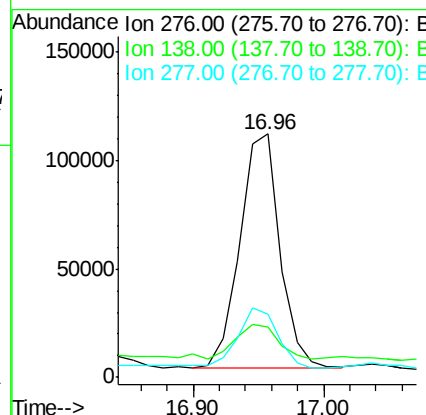
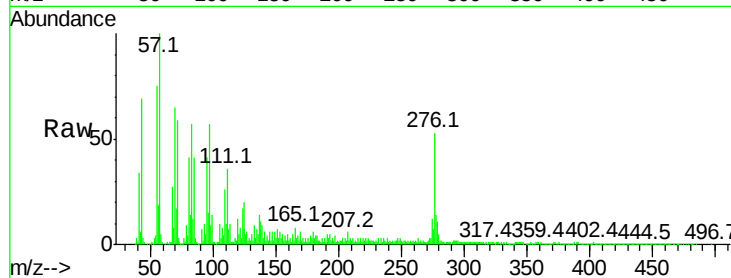




#85
Indeno(1,2,3-cd)pyrene
Concen: 12.49 ng
RT: 16.96 min Scan# 1301
Delta R.T. 0.02 min
Lab File: BF082689.D
Acq: 4 Nov 2015 7:44

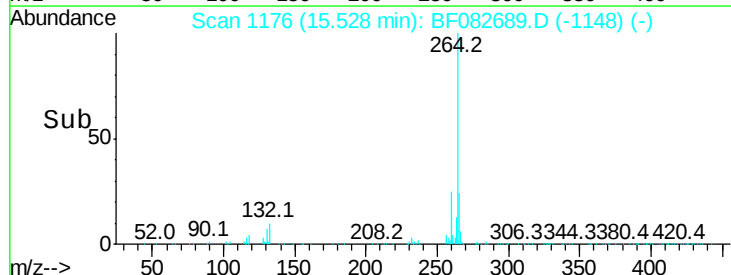
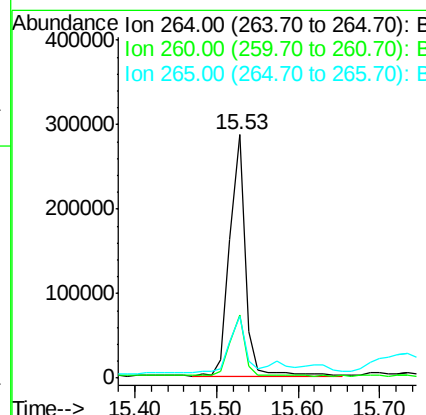
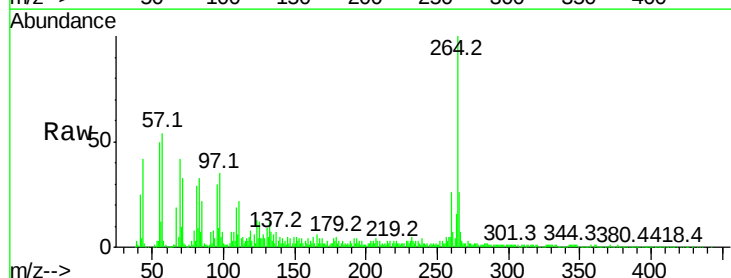
Instrument :
BNA_F
ClientSampleId :
TP-17(3)

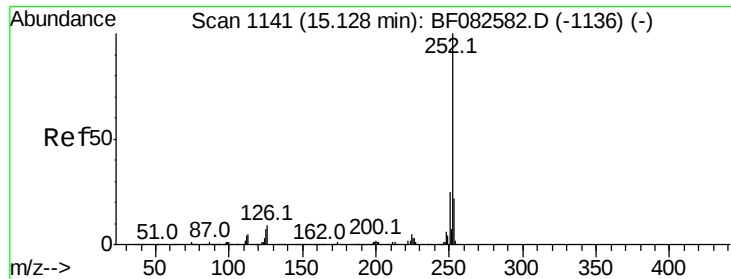
Tot Ion	Ratio	Lower	Upper
276	100		
138	16.7	15.3	22.9
277	26.1	20.2	30.4



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.53 min Scan# 1176
Delta R.T. 0.02 min
Lab File: BF082689.D
Acq: 4 Nov 2015 7:44

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.9	19.8	29.6
265	25.5	17.4	26.0

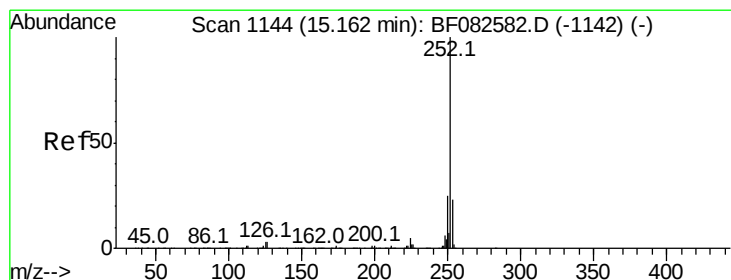
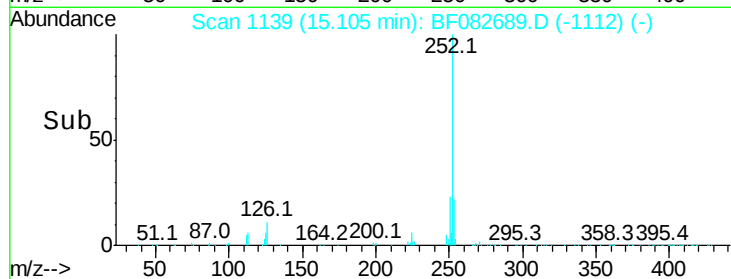
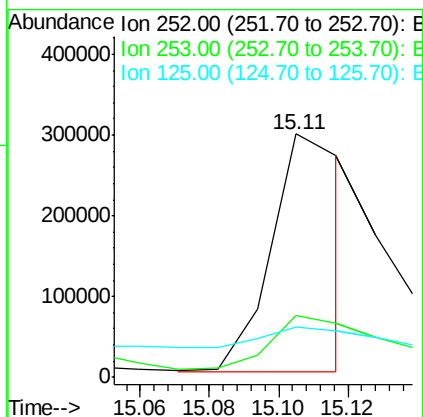
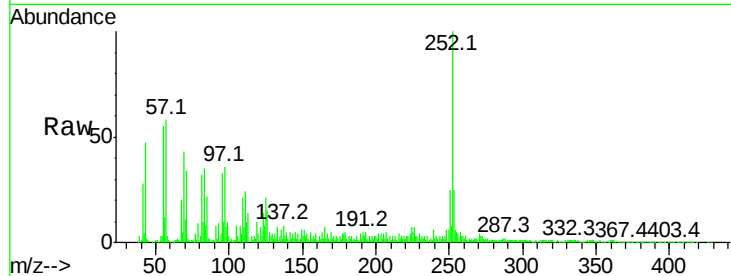




#87
Benzo(b)fluoranthene
Concen: 16.85 ng m
RT: 15.11 min Scan# 1139
Delta R.T. 0.01 min
Lab File: BF082689.D
Acq: 4 Nov 2015 7:44

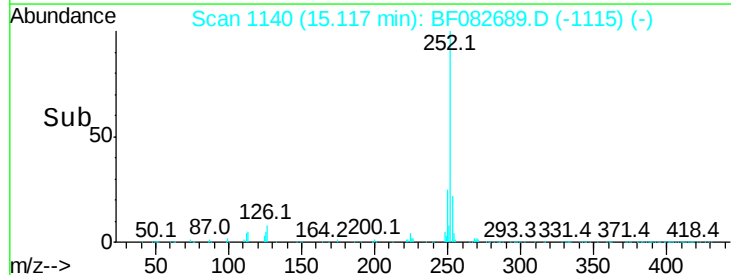
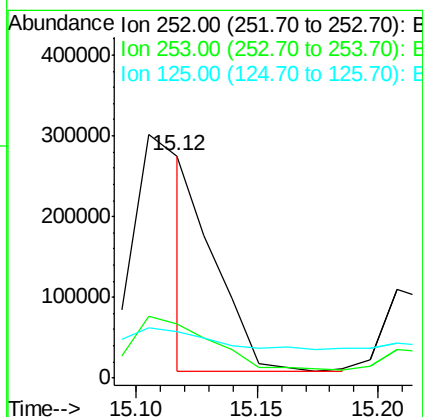
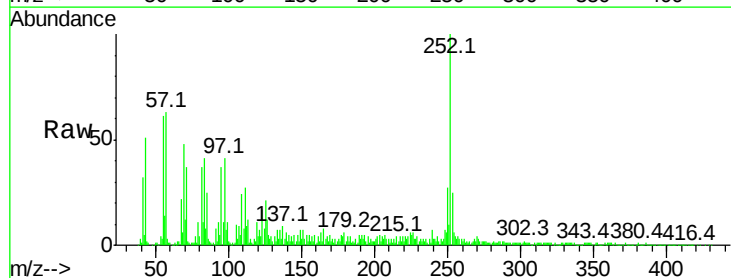
Instrument :
BNA_F
ClientSampleId :
TP-17(3)

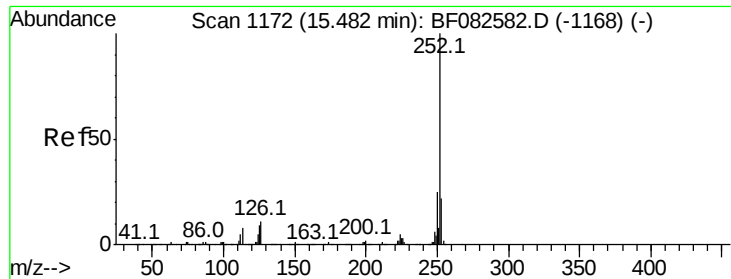
Tot Ion:252 Resp: 439242
Ion Ratio Lower Upper
252 100
253 25.2 17.8 26.8
125 20.7 5.4 8.2#



#88
Benzo(k)fluoranthene
Concen: 9.44 ng m
RT: 15.12 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF082689.D
Acq: 4 Nov 2015 7:44

Tgt Ion:252 Resp: 187418
Ion Ratio Lower Upper
252 100
253 24.6 17.9 26.9
125 20.9 3.5 5.3#

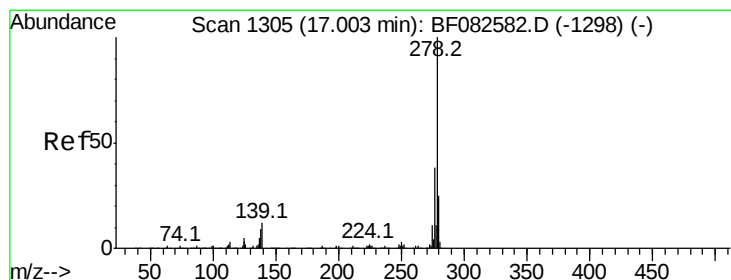
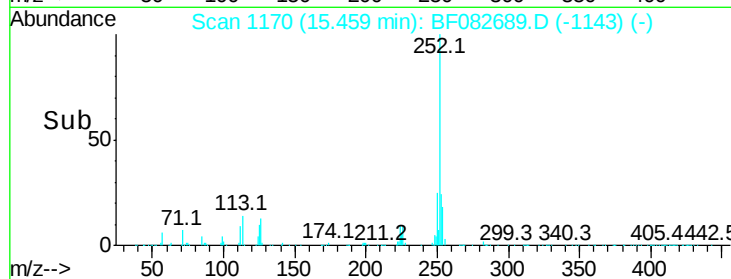
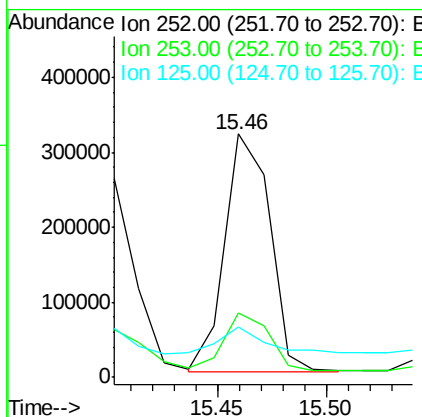
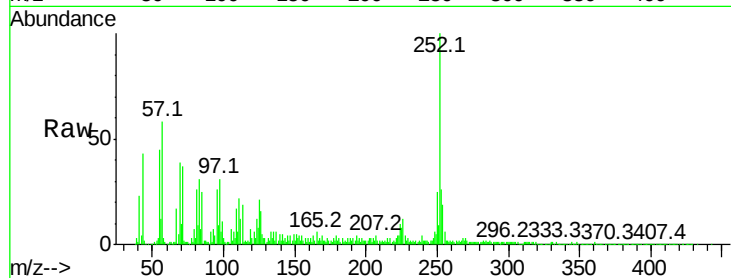




#89
Benzo(a)pyrene
Concen: 22.43 ng
RT: 15.46 min Scan# 1170
Delta R.T. 0.01 min
Lab File: BF082689.D
Acq: 4 Nov 2015 7:44

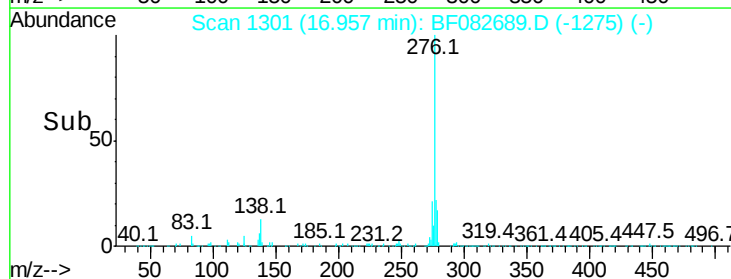
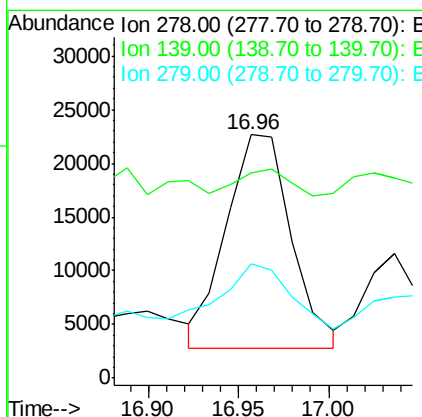
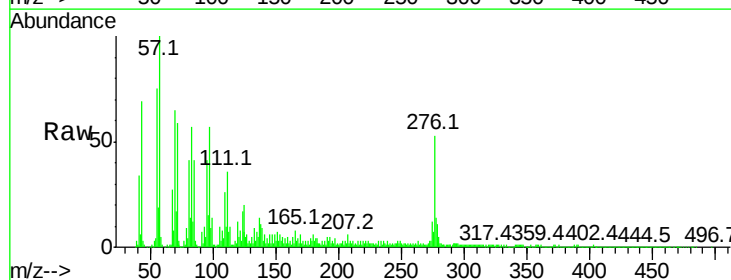
Instrument :
BNA_F
ClientSampled :
TP-17(3)

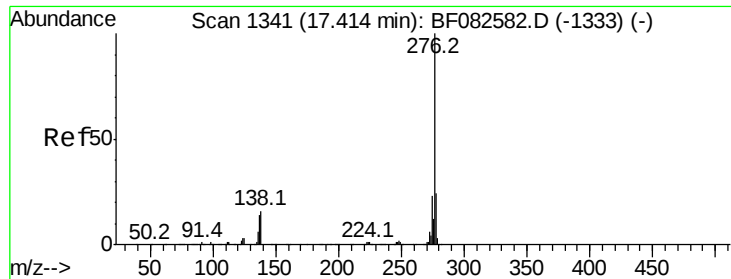
Tot Ion:252 Resp: 460430
Ion Ratio Lower Upper
252 100
253 26.5 17.3 25.9#
125 20.5 7.1 10.7#



#90
Dibenzo(a,h)anthracene
Concen: 2.61 ng m
RT: 16.96 min Scan# 1301
Delta R.T. -0.00 min
Lab File: BF082689.D
Acq: 4 Nov 2015 7:44

Tgt Ion:278 Resp: 49990
Ion Ratio Lower Upper
278 100
139 84.2 9.9 14.9#
279 46.9 19.6 29.4#





#91

Benzo(a,h,i)perylene

Concen: 14.34 ng

RT: 17.39 min Scan# 1339

Delta R.T. 0.03 min

Lab File: BF082689.D

Acq: 4 Nov 2015 7:44

Instrument :

BNA_F

ClientSampleId :

TP-17(3)

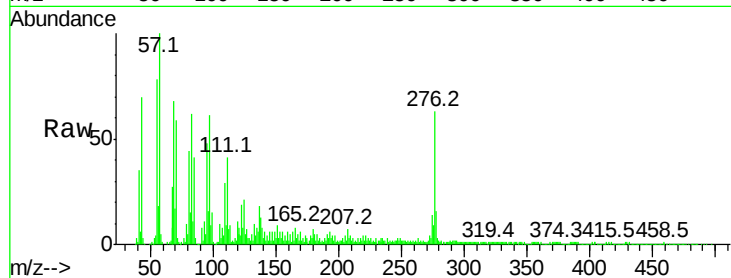
Tot Ion:276 Resp: 266153

Ion Ratio Lower Upper

276 100

277 24.6 19.2 28.8

138 20.6 13.1 19.7#



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

