

Data Path : Z:\HPCHEM1\BNA F\Data\BF051016\
 Data File : BF086892.D
 Acq On : 11 May 2016 10:25
 Operator : UM/SJ
 Sample : H2762-04DL3 400X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B3COMP

Quant Time: May 11 11:10:48 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 09 16:04:56 2016
 Response via : Initial Calibration

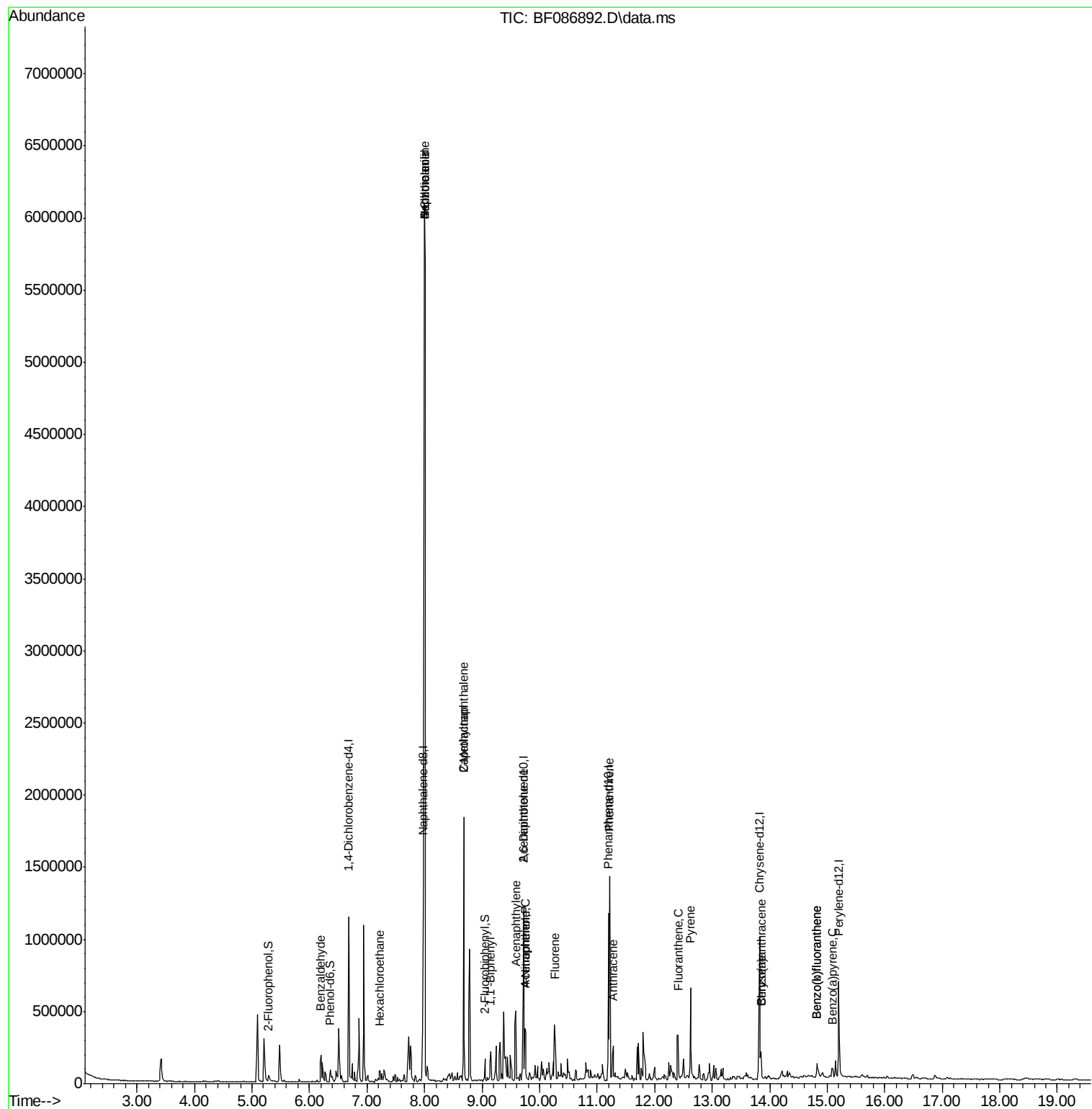
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.681	152	151641	20.00	ng	-0.01	
21) Naphthalene-d8	7.973	136	588718	20.00	ng	-0.01	
38) Acenaphthene-d10	9.722	164	242461	20.00	ng	-0.01	
63) Phenanthrene-d10	11.196	188	385710	20.00	ng	-0.01	
75) Chrysene-d12	13.825	240	330999	20.00	ng	-0.01	
86) Perylene-d12	15.197	264	278620	20.00	ng	-0.01	
System Monitoring Compounds							
5) 2-Fluorophenol	5.287	112	21974	2.45	ng	0.00	
7) Phenol-d6	6.361	99	29216	2.44	ng	0.00	
23) Nitrobenzene-d5	7.253	82	21139	1.80	ng	-0.01	
41) 2,4,6-Tribromophenol	10.510	330	3145	1.23	ng	-0.01	
44) 2-Fluorobiphenyl	9.047	172	44485	3.08	ng	-0.01	
78) Terphenyl-d14	12.774	244	28343	1.82	ng	-0.02	
Target Compounds						Qvalue	
9) Benzaldehyde	6.201	77	18921	2.73	ng	#	1
18) Hexachloroethane	7.219	117	23958	5.34	ng	#	14
31) Naphthalene	8.007	128	4226703	143.34	ng		97
32) Benzoic acid	8.007	122	11548	2.18	ng	#	1
33) 4-Chloroaniline	8.007	127	612626	53.47	ng	#	37
35) Caprolactam	8.682	113	11201	4.14	ng	#	1
37) 2-Methylnaphthalene	8.682	142	441969	25.64	ng		97
45) 1,1'-Biphenyl	9.150	154	75468	3.91	ng		99
48) Acenaphthylene	9.585	152	227753	10.25	ng		97
50) 2,6-Dinitrotoluene	9.722	165	37155	9.54	ng	#	21
51) Acenaphthene	9.756	154	110715	8.01	ng		98
55) 4-Nitrophenol	9.756	139	2110	5.29	ng		94
57) Fluorene	10.259	166	154432	10.20	ng		98
70) Phenanthrene	11.219	178	487220	23.67	ng		100
71) Anthracene	11.276	178	142799	6.78	ng		98
74) Fluoranthene	12.408	202	176062	8.32	ng		92
77) Pyrene	12.625	202	261480	10.32	ng		99
80) Benzo(a)anthracene	13.848	228	56996	3.07	ng		96
82) Chrysene	13.848	228	56996	3.02	ng		98
87) Benzo(b)fluoranthene	14.819	252	66356	3.66	ng		98
88) Benzo(k)fluoranthene	14.819	252	66356	4.48	ng	#	97
89) Benzo(a)pyrene	15.094	252	31704	2.03	ng		95

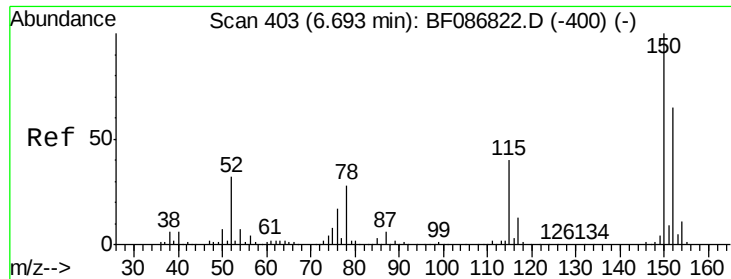
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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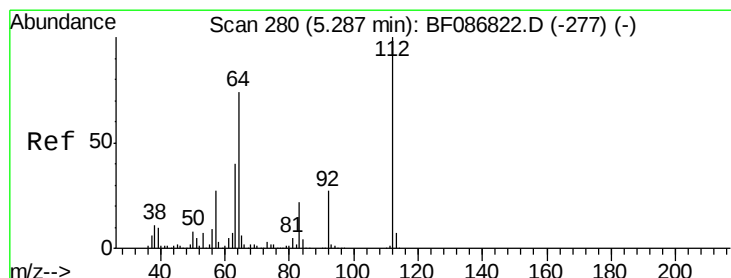
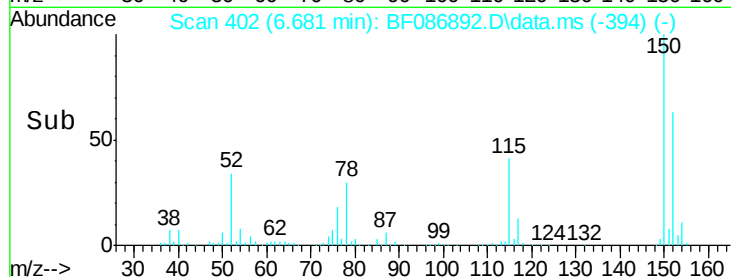
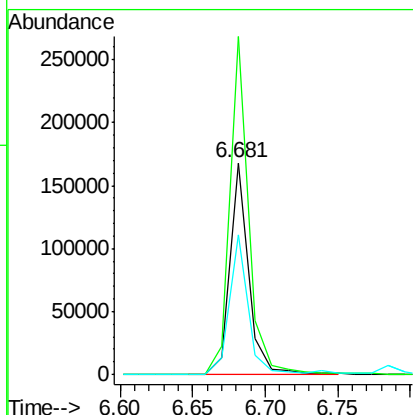
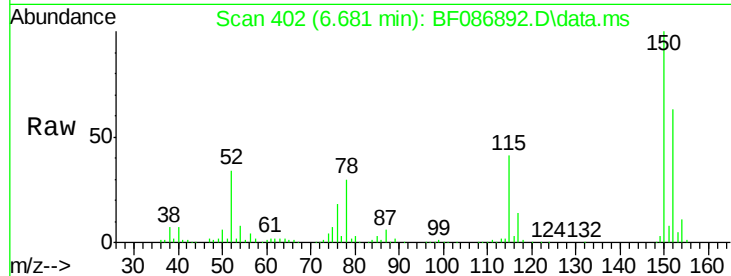




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.681 min Scan# 40
 Delta R.T. -0.012 min
 Lab File: BF086892.D
 Acq: 11 May 2016 10:25

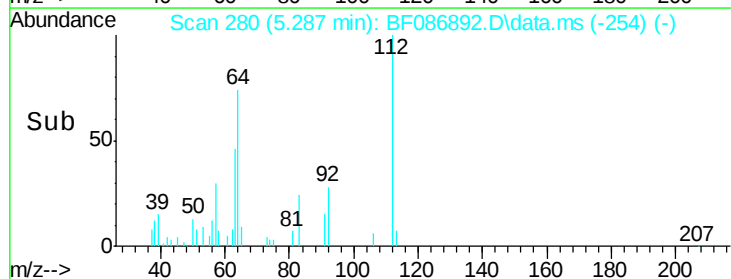
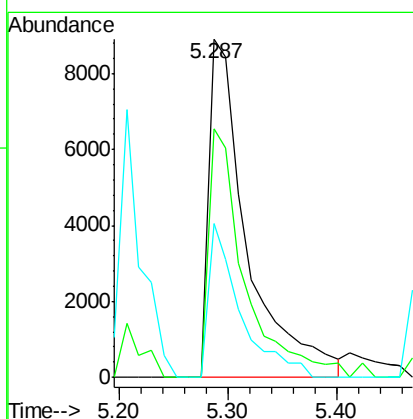
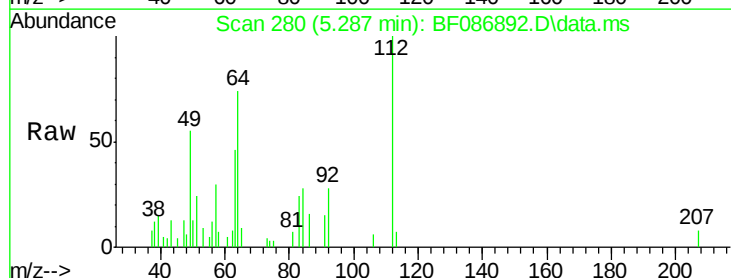
Instrument :
 BNA_F
 ClientSampleId :
 TEC-B3COMP

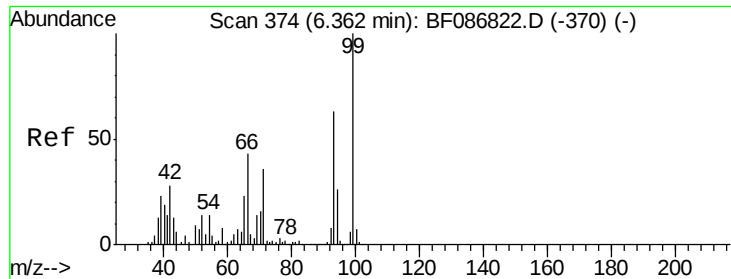
Tot Ion:152 Resp: 151641
 Ion Ratio Lower Upper
 152 100
 150 159.7 125.8 188.6
 115 65.9 51.5 77.3



#5
 2-Fluorophenol
 Concen: 2.45 ng
 RT: 5.287 min Scan# 280
 Delta R.T. 0.000 min
 Lab File: BF086892.D
 Acq: 11 May 2016 10:25

Tgt Ion:112 Resp: 21974
 Ion Ratio Lower Upper
 112 100
 64 73.6 52.1 78.1
 63 45.5 25.7 38.5#





#7

Phenol-d6

Concen: 2.44 ng

RT: 6.361 min Scan# 37

Delta R.T. -0.000 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

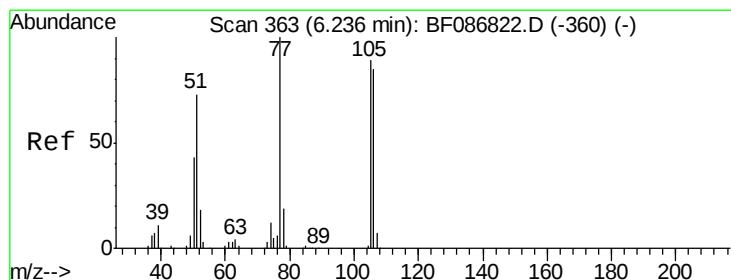
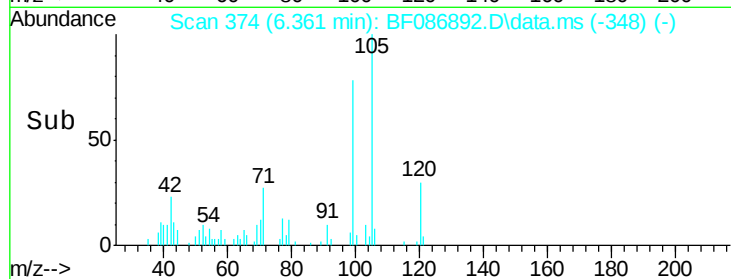
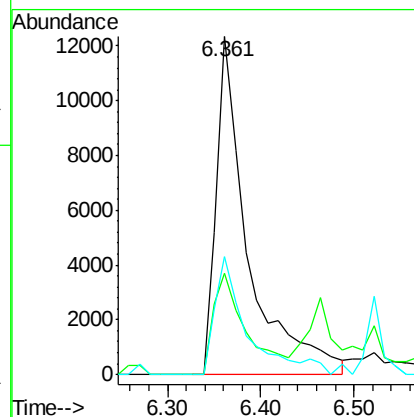
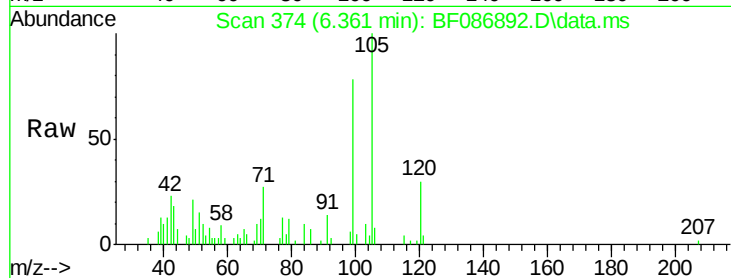
Tot Ion: 99 Resp: 29216

Ion Ratio Lower Upper

99 100

42 29.9 13.6 20.4#

71 35.0 24.6 36.8



#9

Benzaldehyde

Concen: 2.73 ng

RT: 6.201 min Scan# 360

Delta R.T. -0.034 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

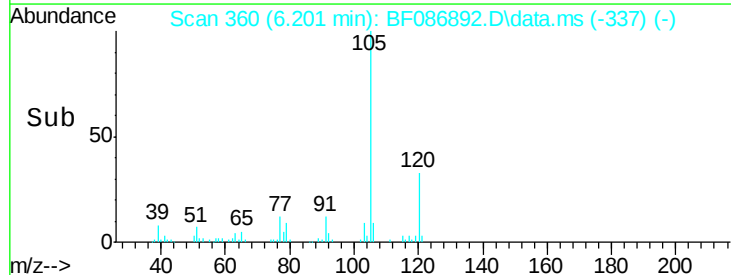
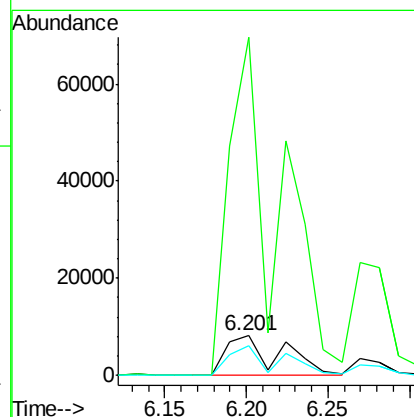
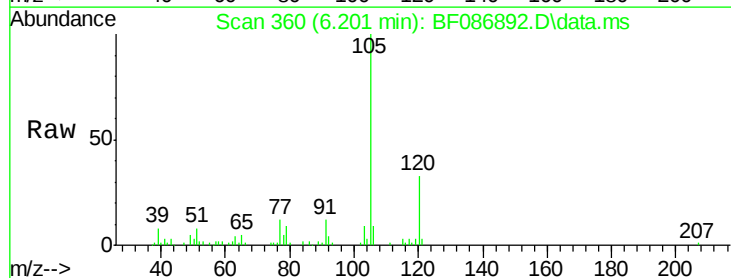
Tgt Ion: 77 Resp: 18921

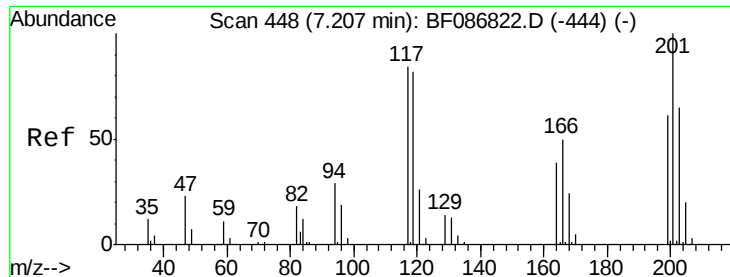
Ion Ratio Lower Upper

77 100

105 855.2 72.7 112.7#

106 73.8 70.8 110.8





#18

Hexachloroethane

Concen: 5.34 ng

RT: 7.219 min Scan# 44

Delta R.T. 0.011 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

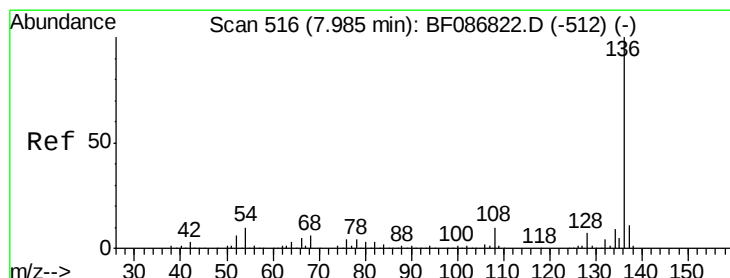
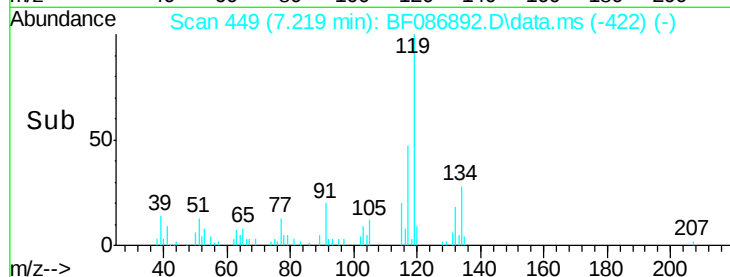
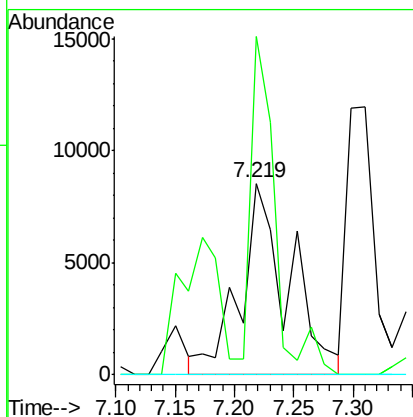
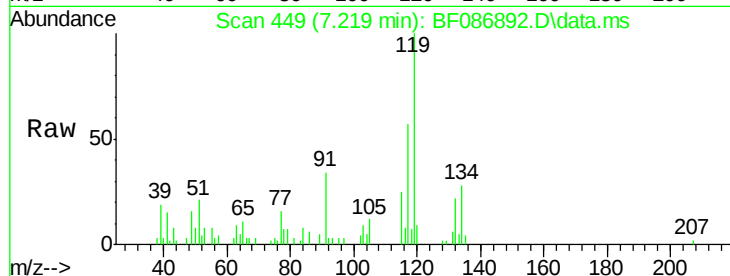
Tot Ion:117 Resp: 23958

Ion Ratio Lower Upper

117 100

119 176.8 76.5 114.7#

201 0.0 63.0 94.6#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.973 min Scan# 515

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Tgt Ion:136 Resp: 588718

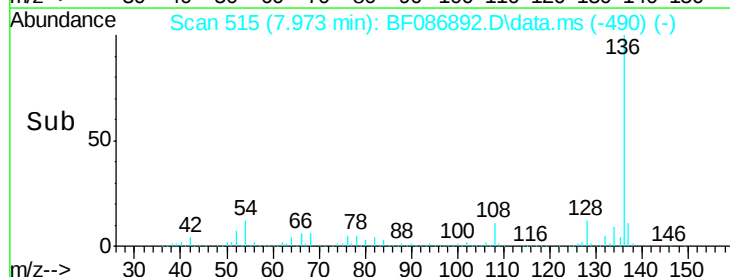
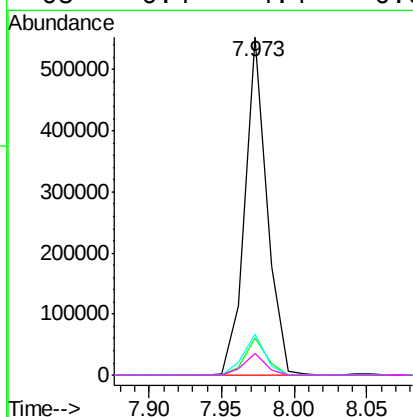
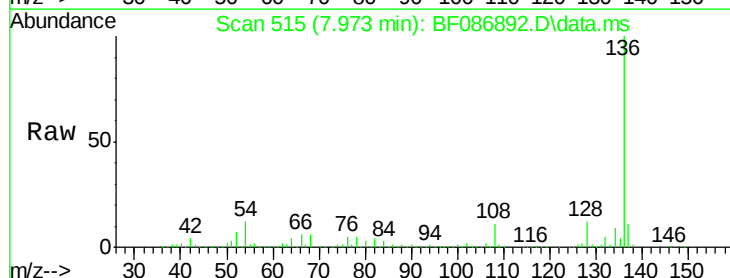
Ion Ratio Lower Upper

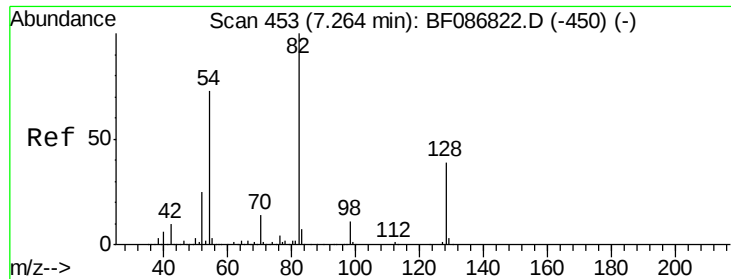
136 100

137 10.9 8.8 13.2

54 12.0 5.0 7.4#

68 6.4 4.4 6.6

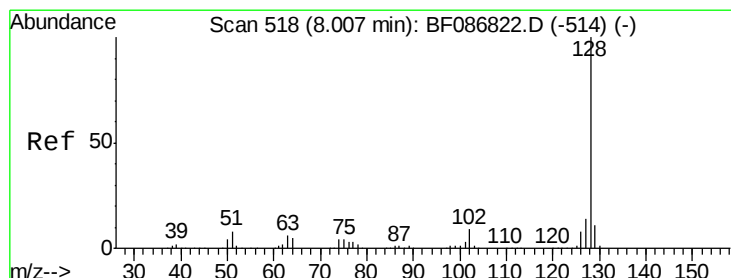
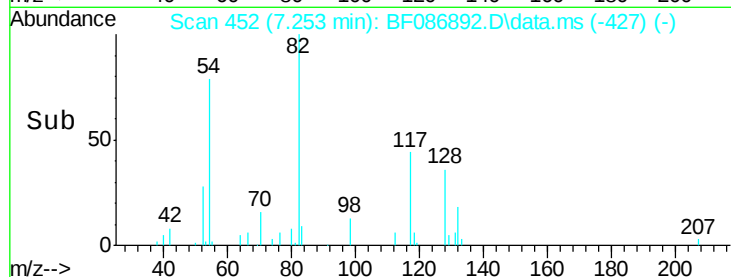
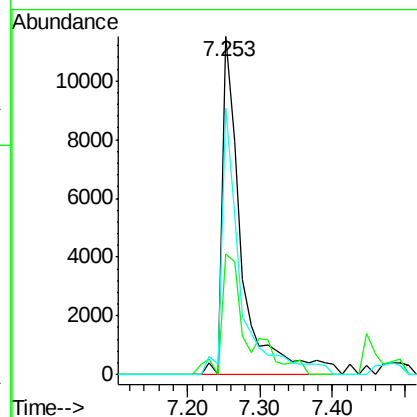
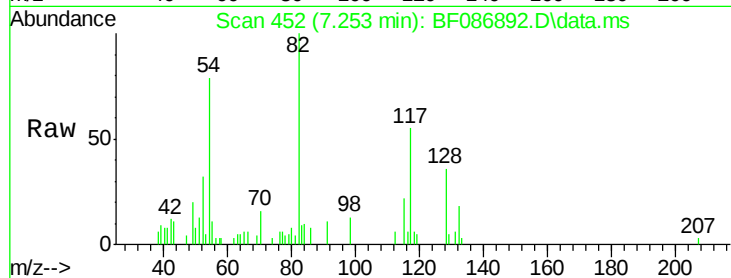




#23
Nitrobenzene-d5
Concen: 1.80 ng
RT: 7.253 min Scan# 45
Delta R.T. -0.012 min
Lab File: BF086892.D
Acq: 11 May 2016 10:25

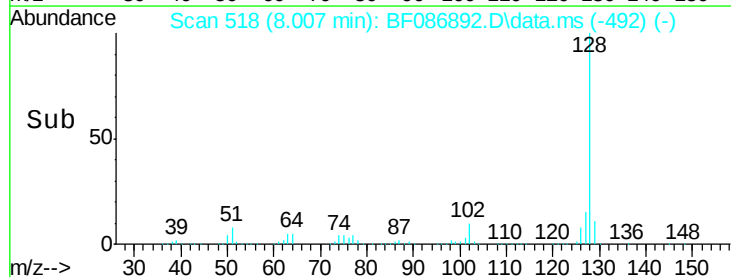
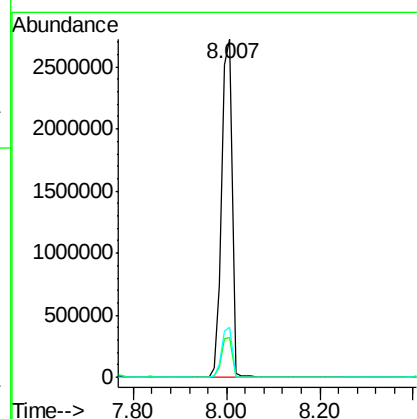
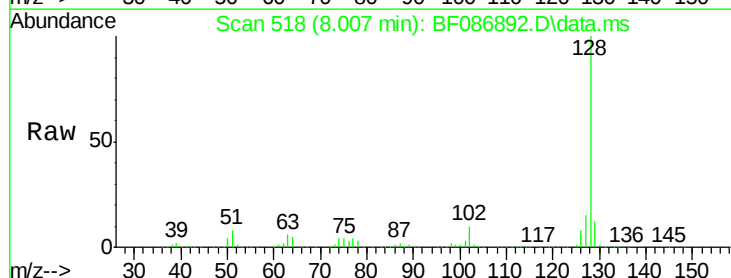
Instrument :
BNA_F
ClientSampleId :
TEC-B3COMP

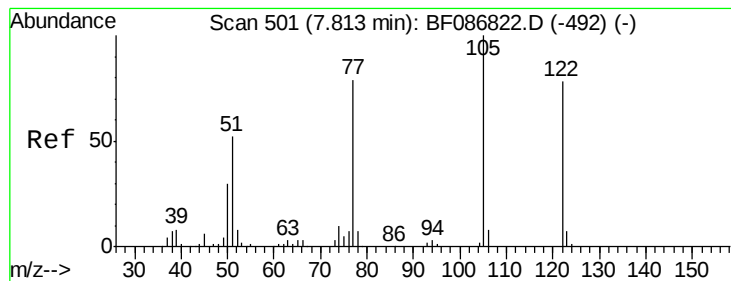
Tot Ion: 82 Resp: 21139
Ion Ratio Lower Upper
82 100
128 35.6 40.6 61.0#
54 78.7 38.1 57.1#



#31
Naphthalene
Concen: 143.34 ng
RT: 8.007 min Scan# 518
Delta R.T. -0.000 min
Lab File: BF086892.D
Acq: 11 May 2016 10:25

Tgt Ion:128 Resp: 4226703
Ion Ratio Lower Upper
128 100
129 11.7 8.6 13.0
127 14.7 10.8 16.2





#32

Benzoic acid

Concen: 2.18 ng

RT: 8.007 min Scan# 518

Delta R.T. 0.194 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

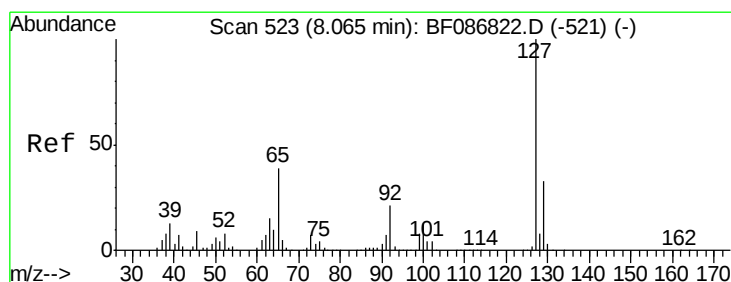
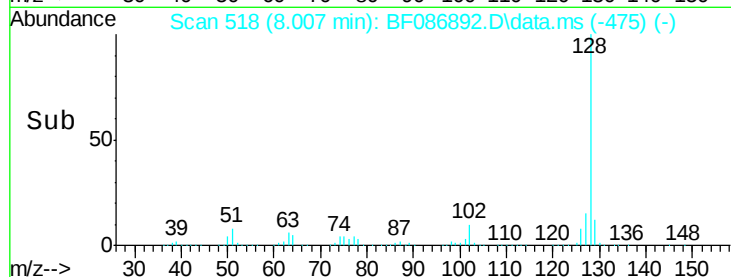
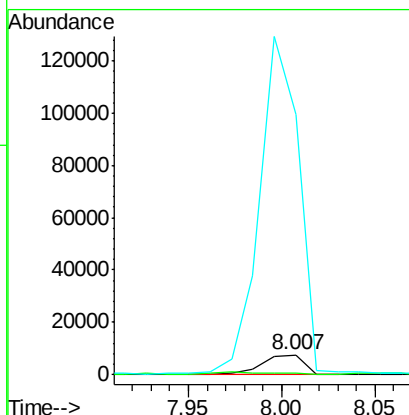
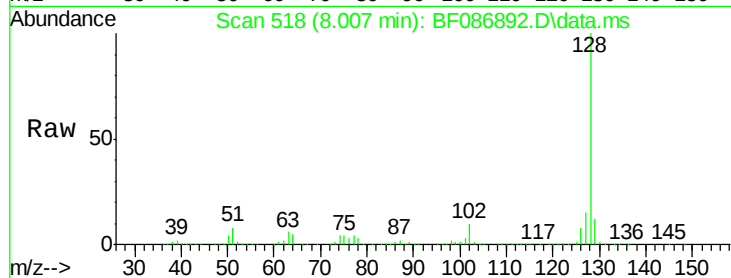
Tot Ion:122 Resp: 11548

Ion Ratio Lower Upper

122 100

105 4.7 92.6 132.6#

77 1313.7 60.0 100.0#



#33

4-Chloroaniline

Concen: 53.47 ng

RT: 8.007 min Scan# 518

Delta R.T. -0.057 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Tgt Ion:127 Resp: 612626

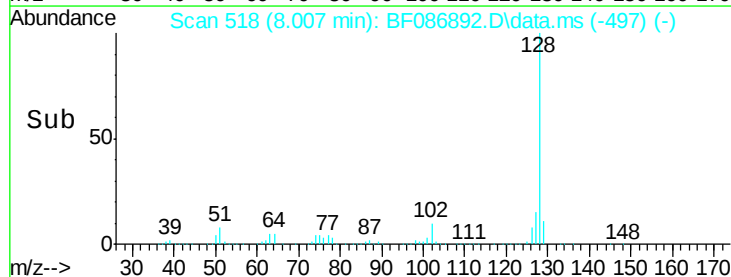
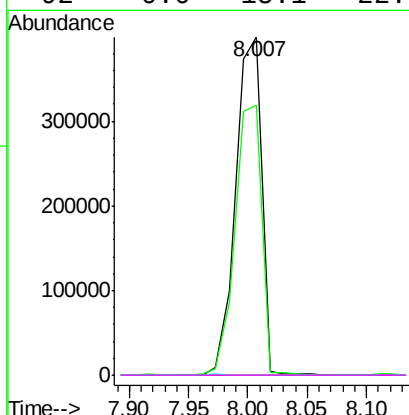
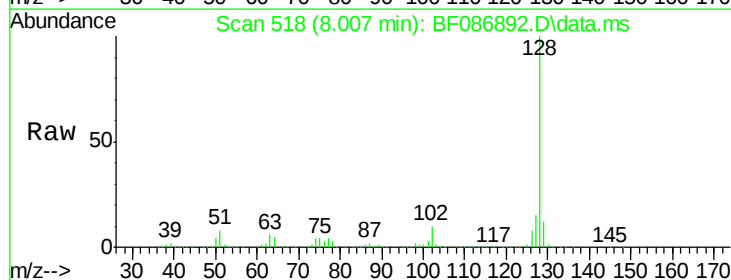
Ion Ratio Lower Upper

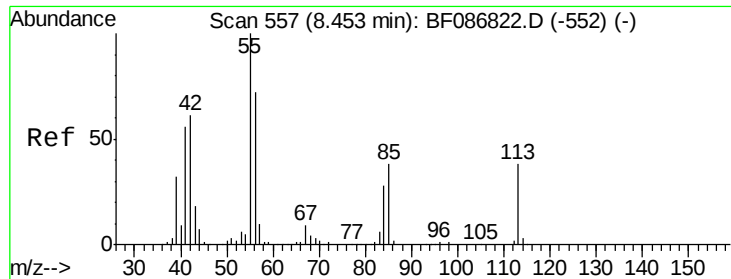
127 100

129 79.9 26.2 39.4#

65 0.0 23.0 34.4#

92 0.0 15.1 22.7#





#35

Caprolactam

Concen: 4.14 ng

RT: 8.682 min Scan# 577

Delta R.T. 0.229 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

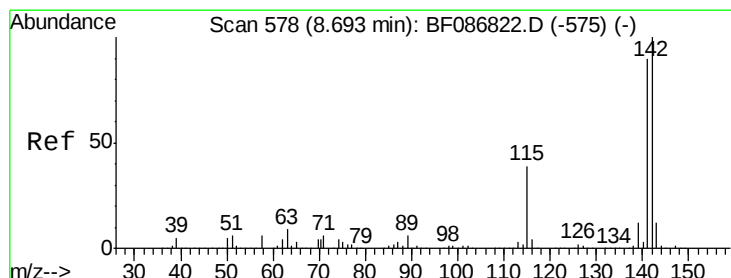
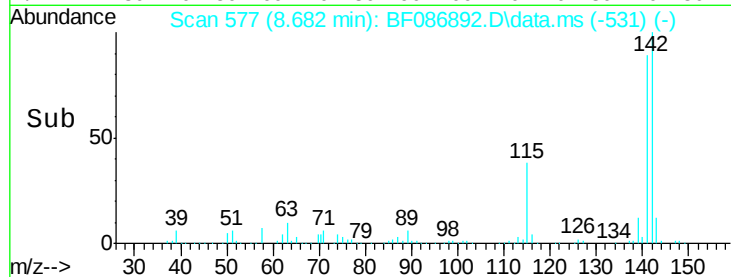
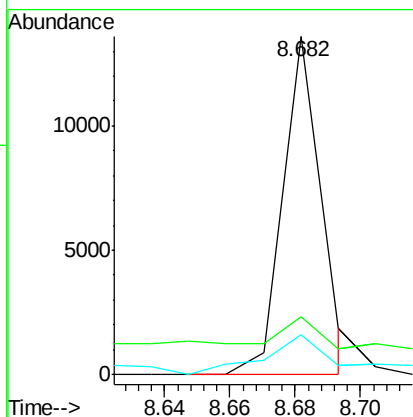
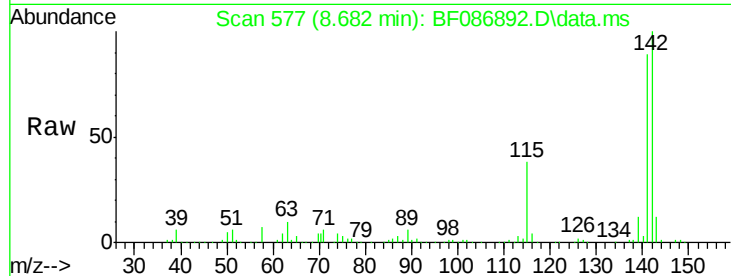
Tot Ion:113 Resp: 11201

Ion Ratio Lower Upper

113 100

55 16.9 162.0 202.0#

56 11.7 115.3 155.3#



#37

2-Methylnaphthalene

Concen: 25.64 ng

RT: 8.682 min Scan# 577

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

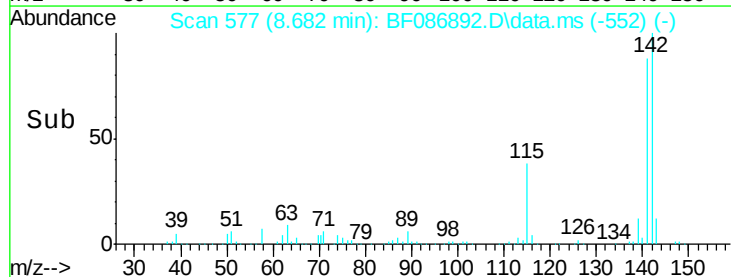
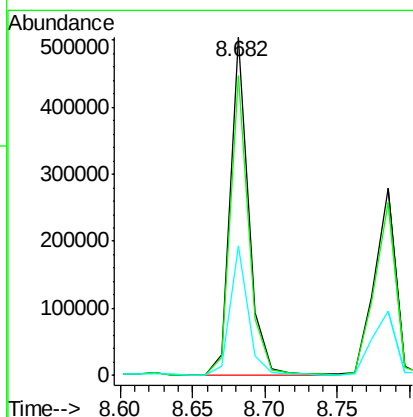
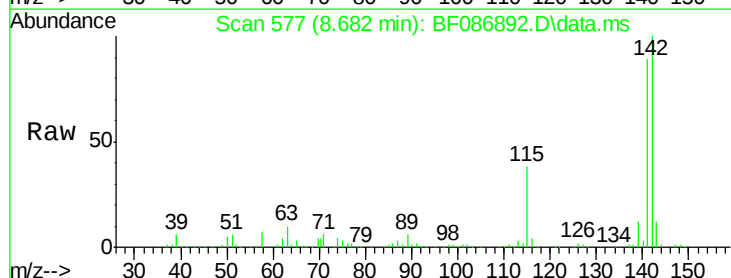
Tgt Ion:142 Resp: 441969

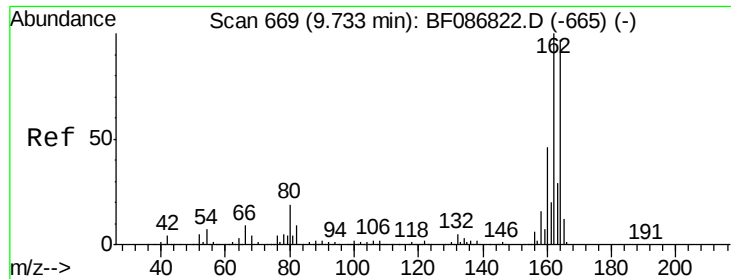
Ion Ratio Lower Upper

142 100

141 88.5 71.0 106.6

115 38.4 26.6 39.8





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.722 min Scan# 66

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

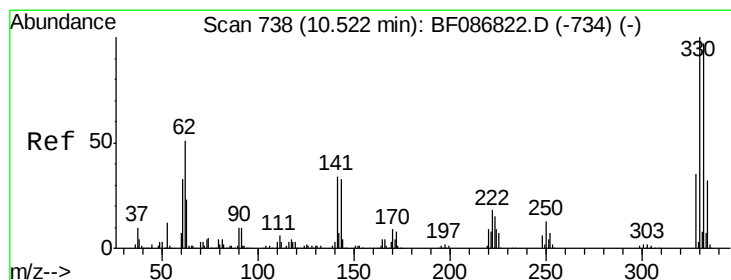
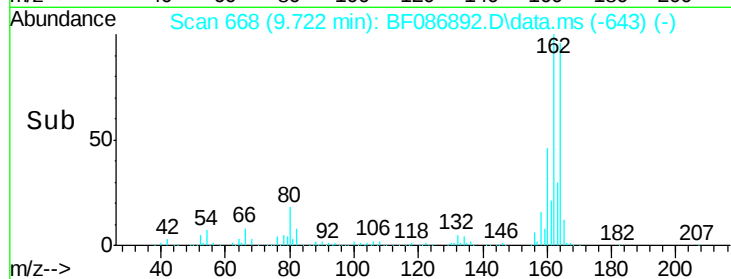
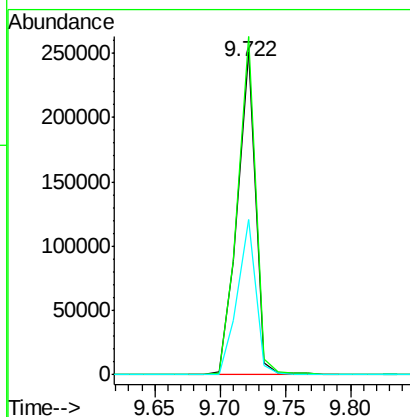
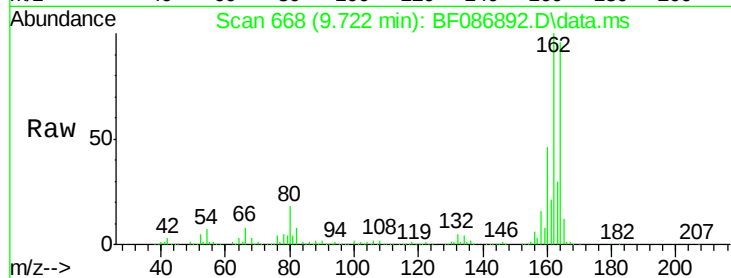
Tot Ion:164 Resp: 242461

Ion Ratio Lower Upper

164 100

162 104.6 82.8 124.2

160 47.9 36.9 55.3



#41

2,4,6-Tribromophenol

Concen: 1.23 ng

RT: 10.510 min Scan# 737

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

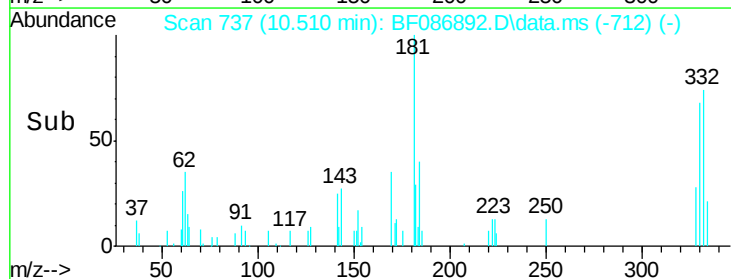
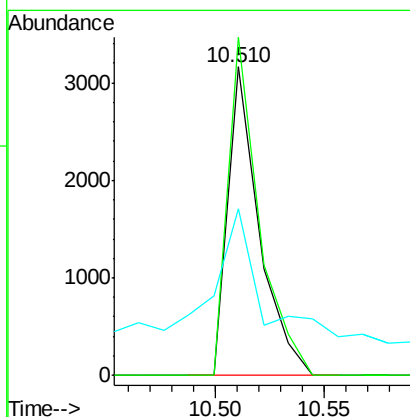
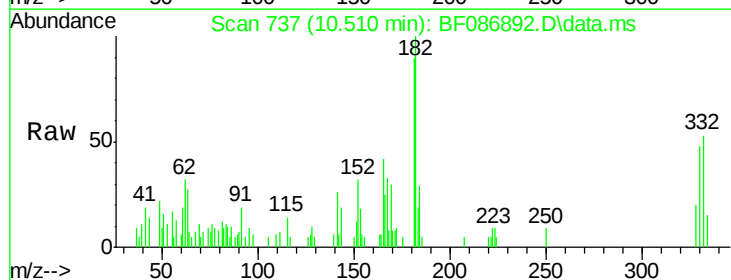
Tgt Ion:330 Resp: 3145

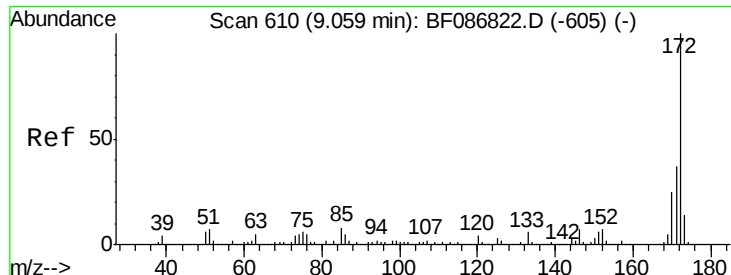
Ion Ratio Lower Upper

330 100

332 109.5 79.0 118.4

141 77.5 31.2 46.8#

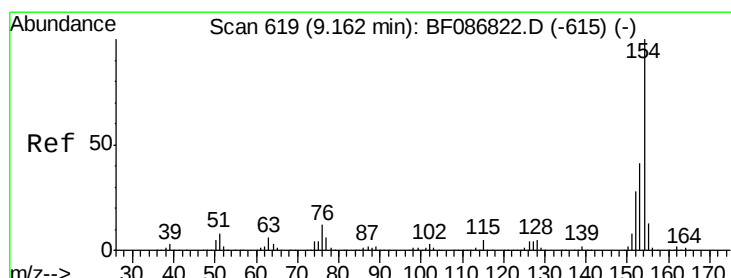
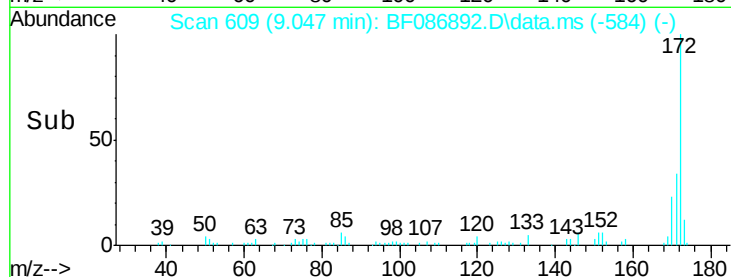
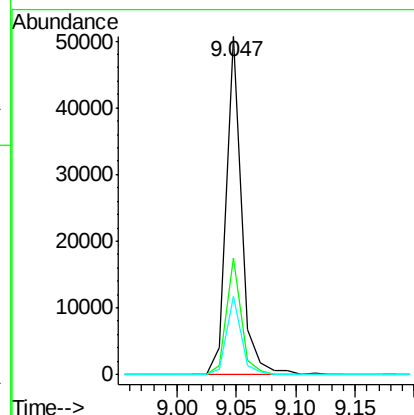
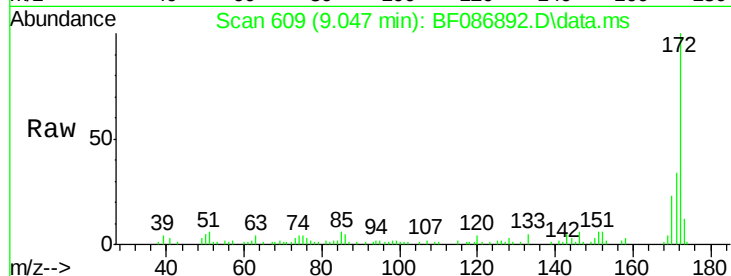




#44
2-Fluorobiphenyl
Concen: 3.08 ng
RT: 9.047 min Scan# 60
Delta R.T. -0.012 min
Lab File: BF086892.D
Acq: 11 May 2016 10:25

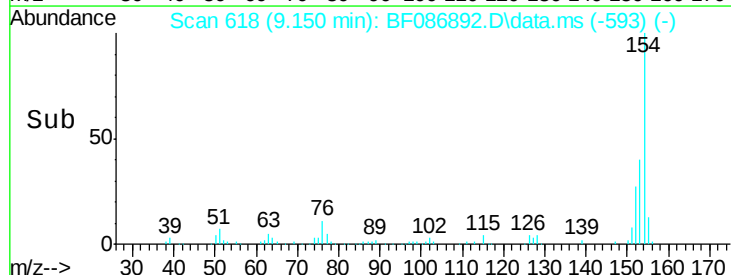
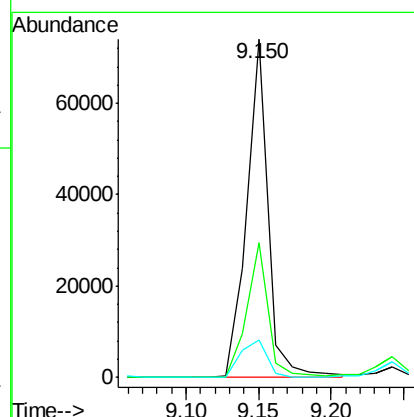
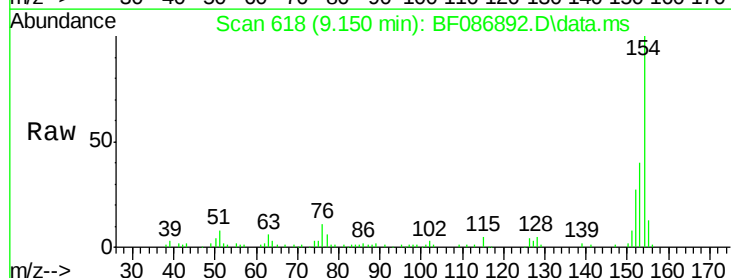
Instrument :
BNA_F
ClientSampleId :
TEC-B3COMP

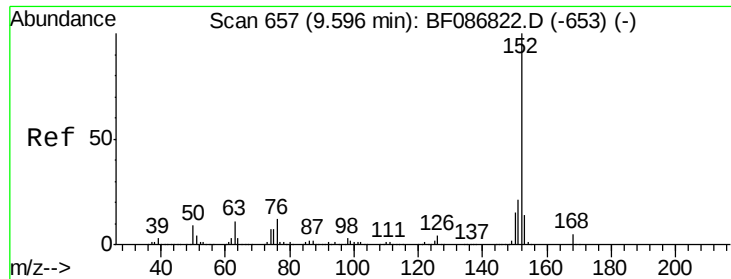
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.4	29.0	43.6
170	23.2	19.8	29.8



#45
1,1'-Biphenyl
Concen: 3.91 ng
RT: 9.150 min Scan# 618
Delta R.T. -0.012 min
Lab File: BF086892.D
Acq: 11 May 2016 10:25

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.3	60.3
76	10.9	0.0	30.2





#48

Acenaphthylene

Concen: 10.25 ng

RT: 9.585 min Scan# 65

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

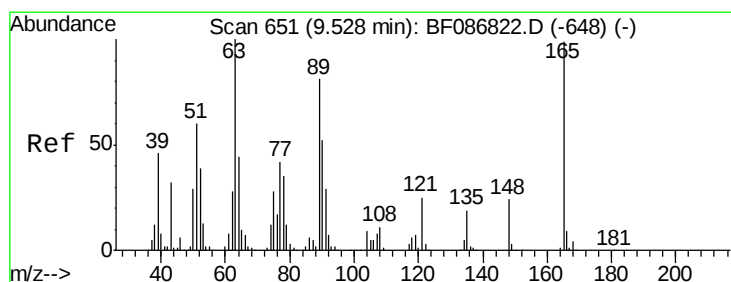
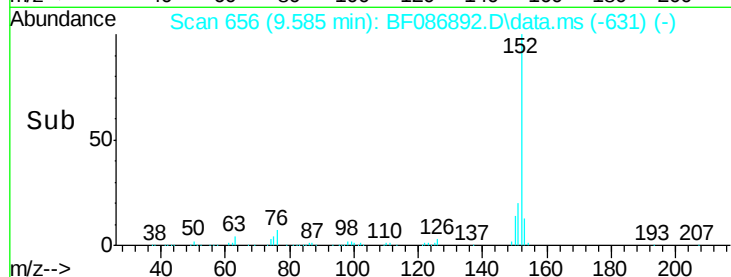
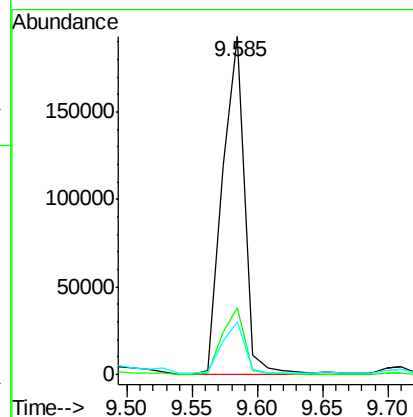
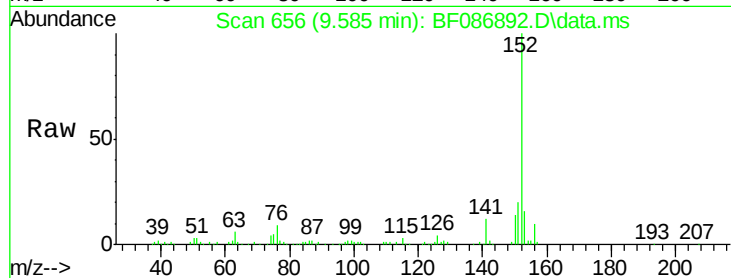
Tot Ion:152 Resp: 227753

Ion Ratio Lower Upper

152 100

151 19.9 16.8 25.2

153 15.7 10.9 16.3



#50

2,6-Dinitrotoluene

Concen: 9.54 ng

RT: 9.722 min Scan# 668

Delta R.T. 0.194 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

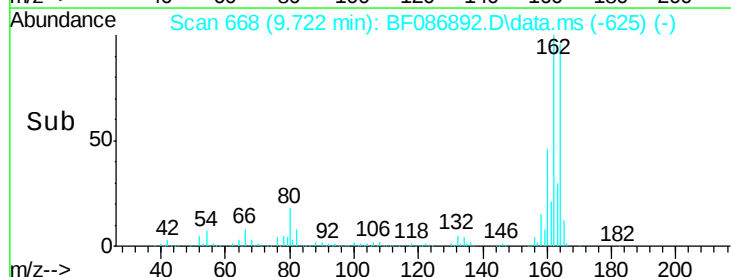
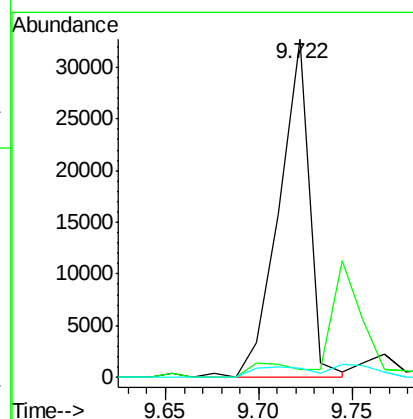
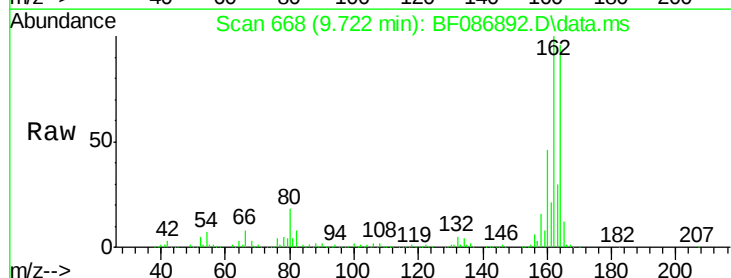
Tgt Ion:165 Resp: 37155

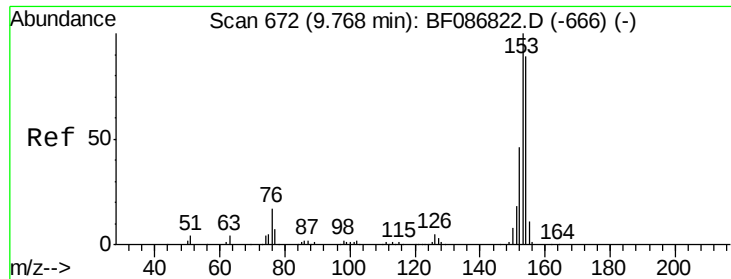
Ion Ratio Lower Upper

165 100

63 2.4 51.8 77.8#

89 2.8 50.7 76.1#





#51

Acenaphthene

Concen: 8.01 ng

RT: 9.756 min Scan# 671

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

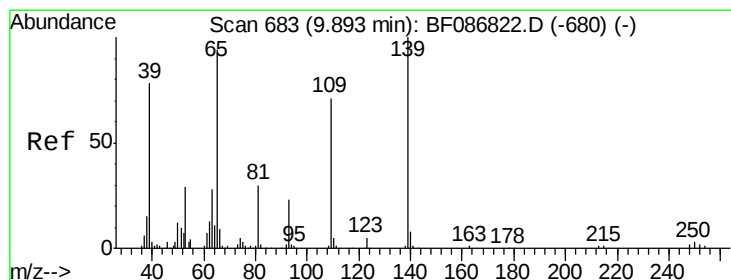
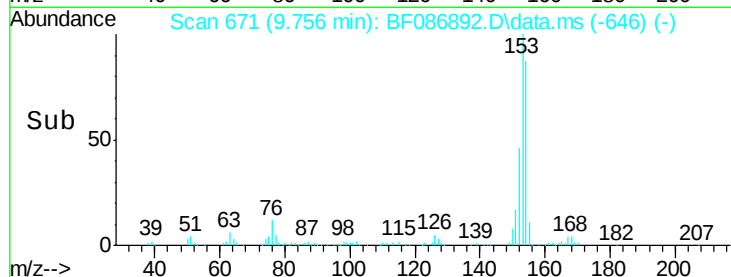
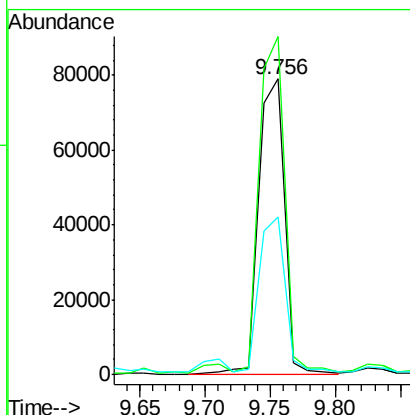
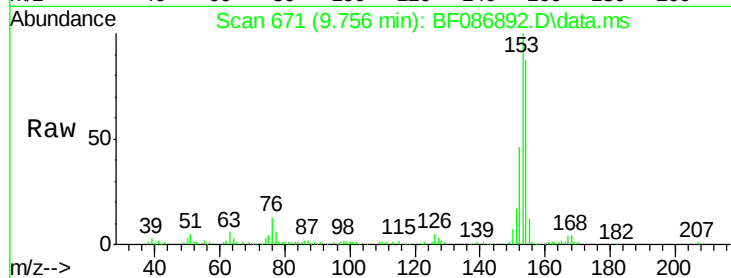
Tot Ion:154 Resp: 110715

Ion Ratio Lower Upper

154 100

153 114.4 89.8 134.6

152 53.1 43.4 65.0



#55

4-Nitrophenol

Concen: 5.29 ng

RT: 9.756 min Scan# 671

Delta R.T. -0.137 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

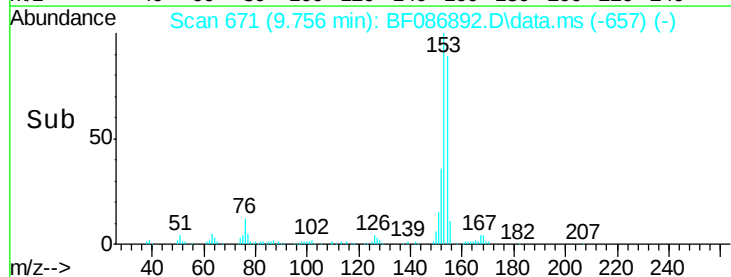
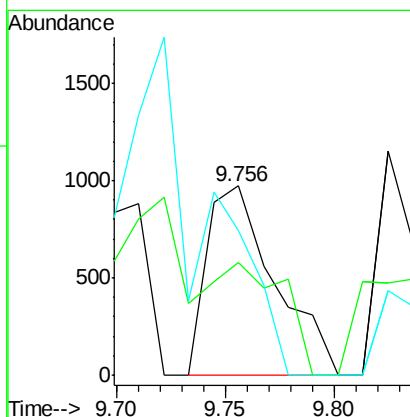
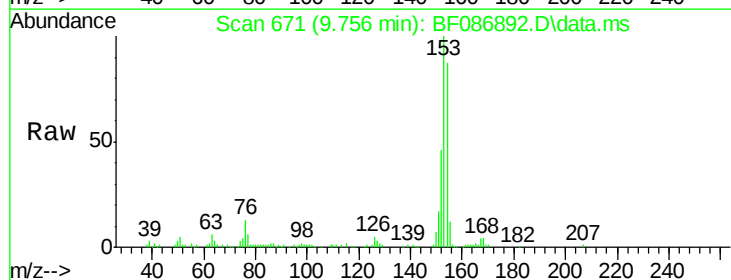
Tgt Ion:139 Resp: 2110

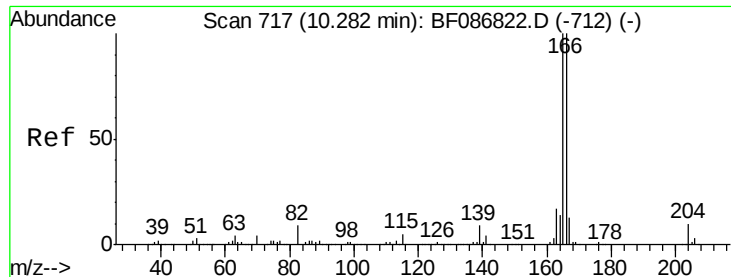
Ion Ratio Lower Upper

139 100

109 59.5 36.9 76.9

65 76.8 64.0 104.0

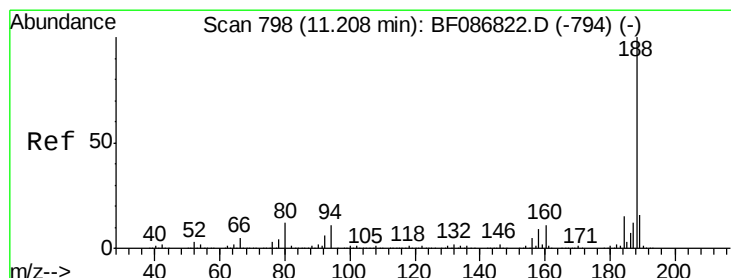
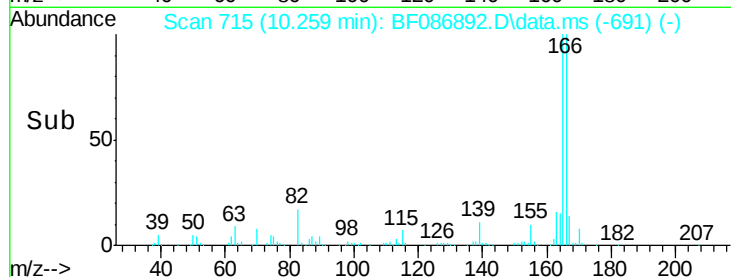
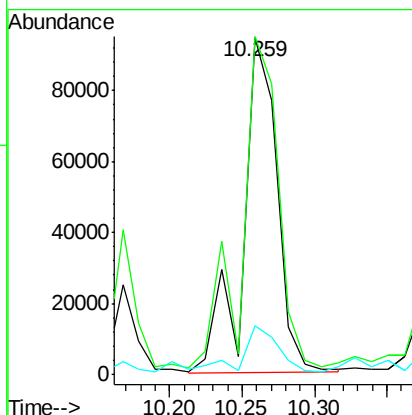
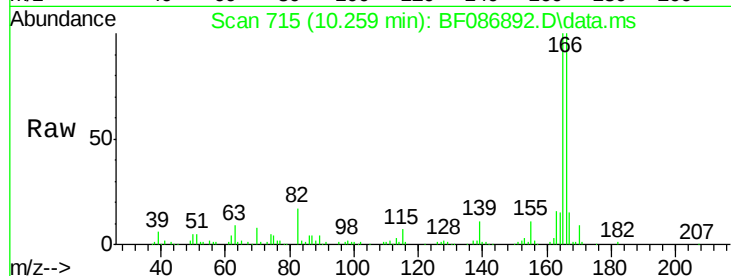




#57
Fluorene
 Concen: 10.20 ng
 RT: 10.259 min Scan# 71
 Delta R.T. -0.023 min
 Lab File: BF086892.D
 Acq: 11 May 2016 10:25

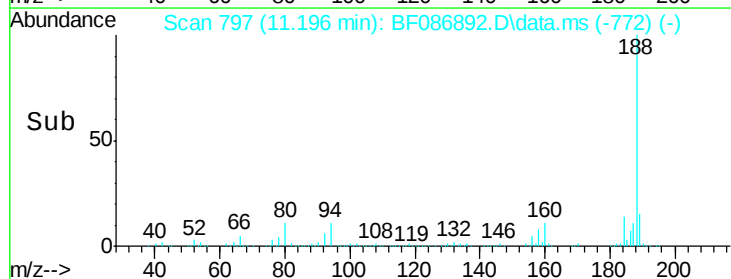
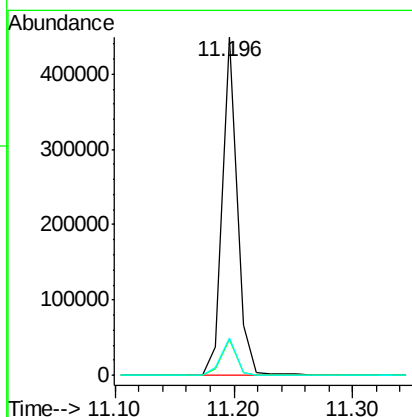
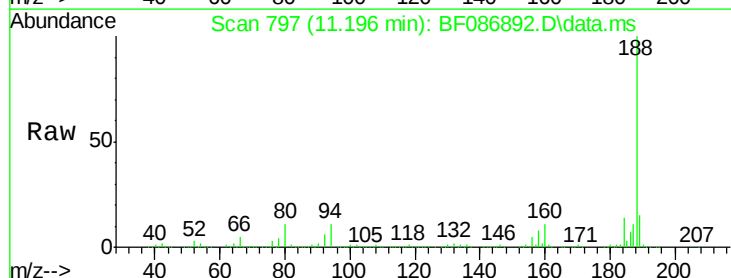
Instrument :
 BNA_F
 ClientSampleId :
 TEC-B3COMP

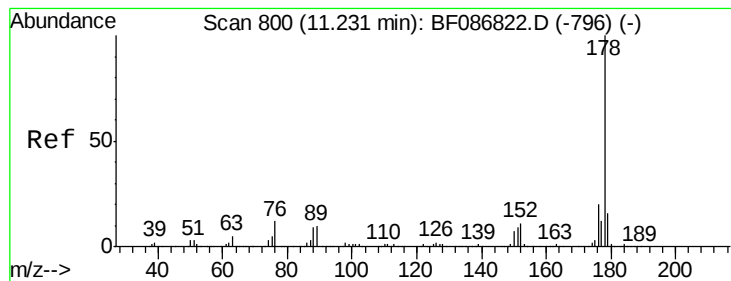
Tot Ion:166 Resp: 154432
 Ion Ratio Lower Upper
 166 100
 165 100.3 79.0 118.6
 167 14.6 10.6 15.8



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.196 min Scan# 797
 Delta R.T. -0.012 min
 Lab File: BF086892.D
 Acq: 11 May 2016 10:25

Tgt Ion:188 Resp: 385710
 Ion Ratio Lower Upper
 188 100
 94 10.5 6.8 10.2#
 80 11.2 7.1 10.7#





#70

Phenanthrene

Concen: 23.67 ng

RT: 11.219 min Scan# 79

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

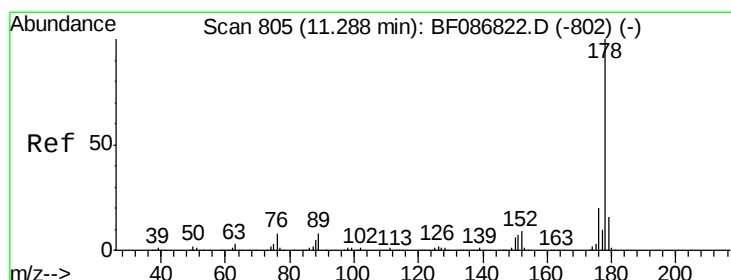
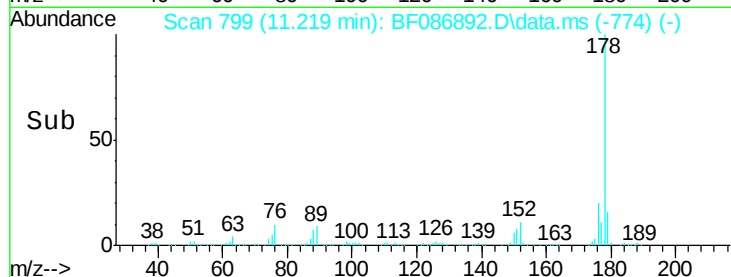
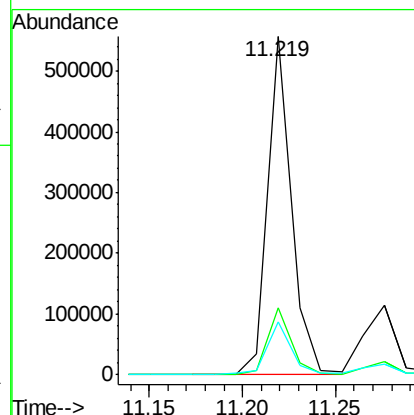
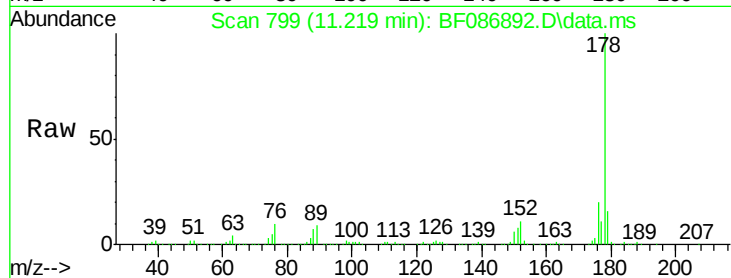
Tot Ion:178 Resp: 487220

Ion Ratio Lower Upper

178 100

176 19.8 16.0 24.0

179 15.7 12.6 18.8



#71

Anthracene

Concen: 6.78 ng

RT: 11.276 min Scan# 804

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

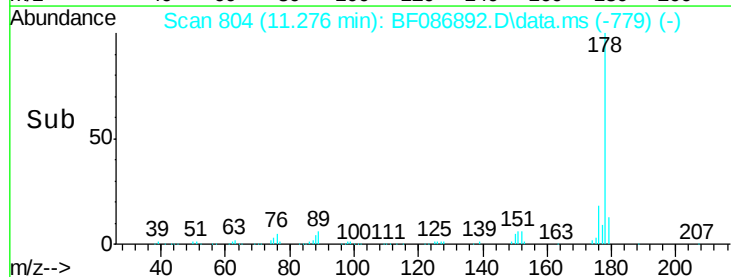
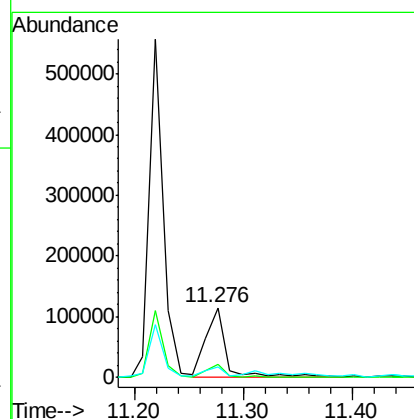
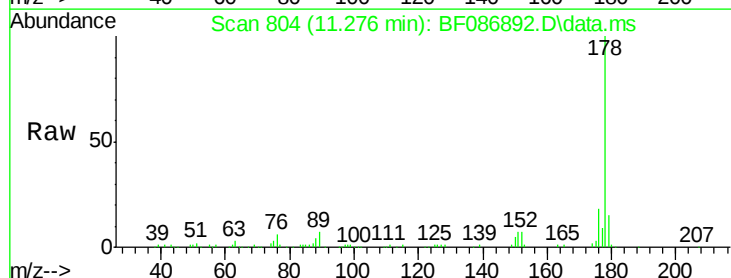
Tgt Ion:178 Resp: 142799

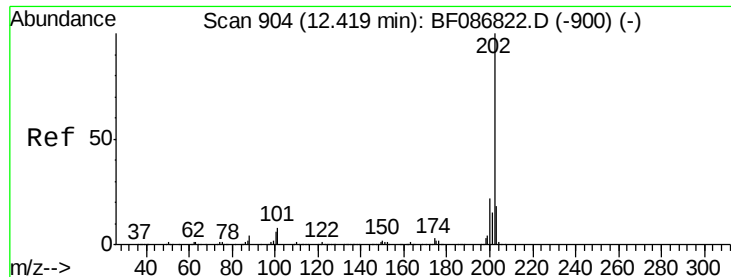
Ion Ratio Lower Upper

178 100

176 18.1 15.6 23.4

179 15.2 12.7 19.1





#74

Fluoranthene

Concen: 8.32 ng

RT: 12.408 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

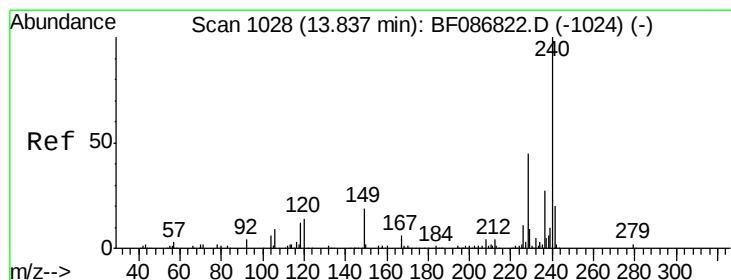
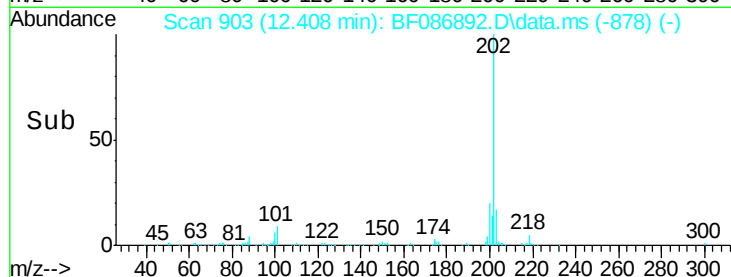
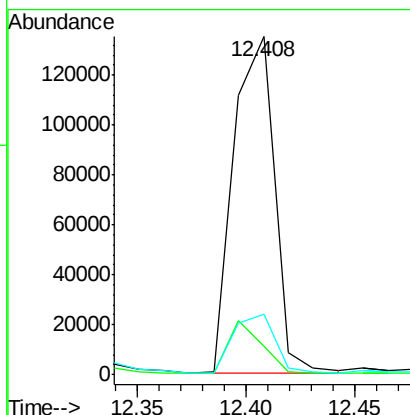
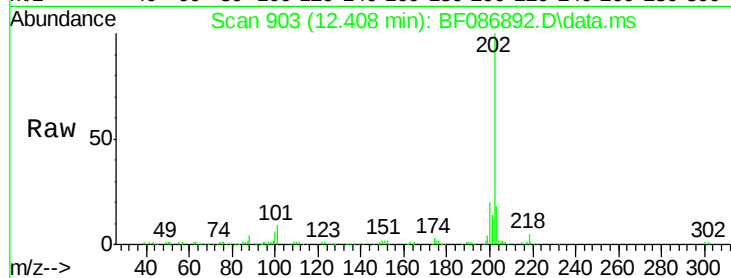
Tot Ion:202 Resp: 176062

Ion Ratio Lower Upper

202 100

101 8.5 0.0 35.4

203 17.7 0.0 38.1



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.825 min Scan# 1027

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

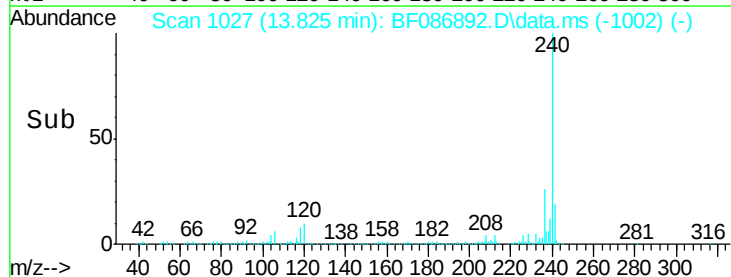
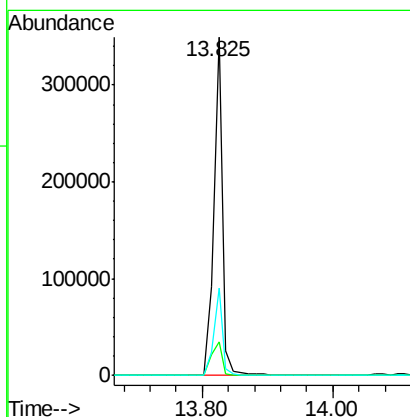
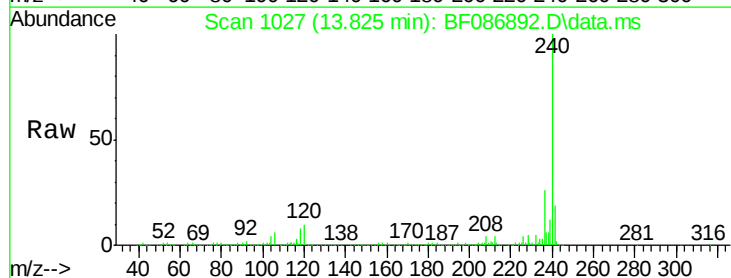
Tgt Ion:240 Resp: 330999

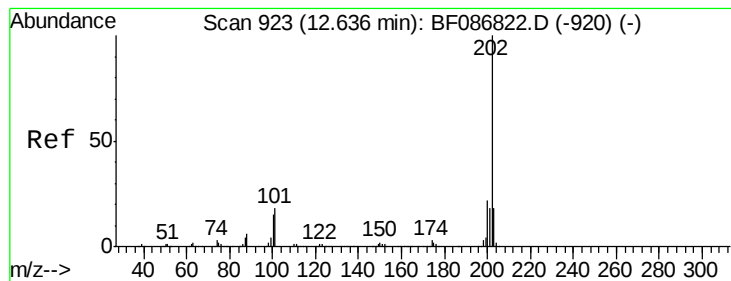
Ion Ratio Lower Upper

240 100

120 9.8 11.2 16.8#

236 25.9 21.2 31.8





#77

Pvrene

Concen: 10.32 ng

RT: 12.625 min Scan# 92

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

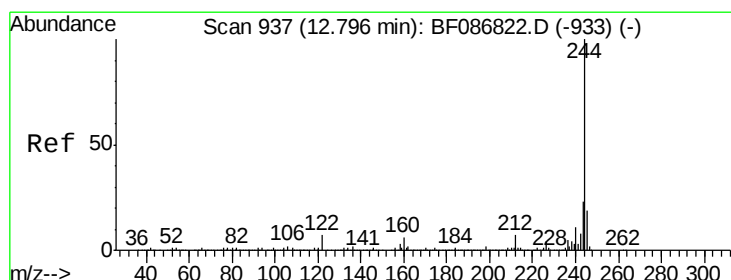
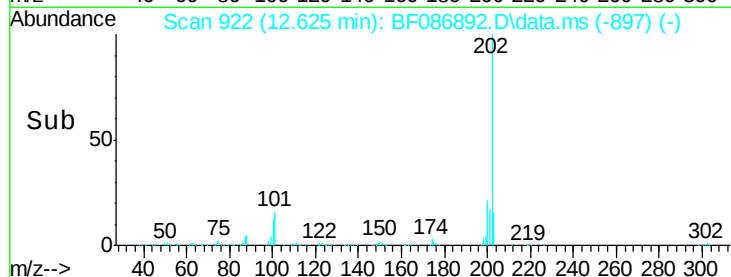
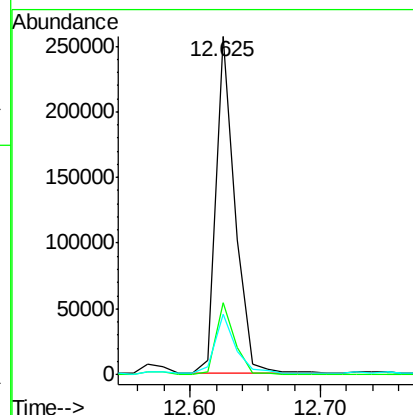
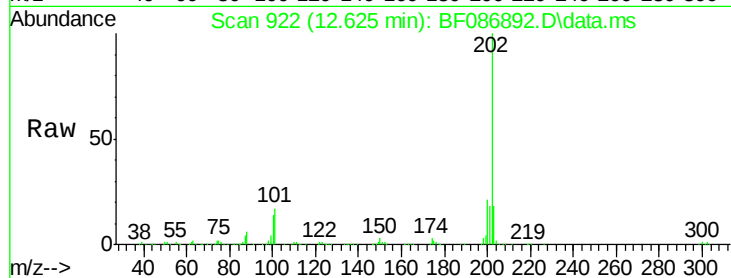
Tot Ion:202 Resp: 261480

Ion Ratio Lower Upper

202 100

200 21.2 17.7 26.5

203 17.8 14.2 21.4



#78

Terphenyl-d14

Concen: 1.82 ng

RT: 12.774 min Scan# 935

Delta R.T. -0.023 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

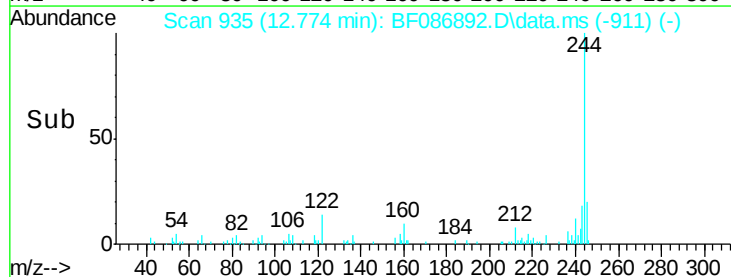
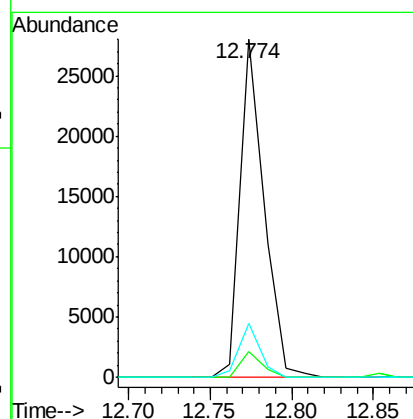
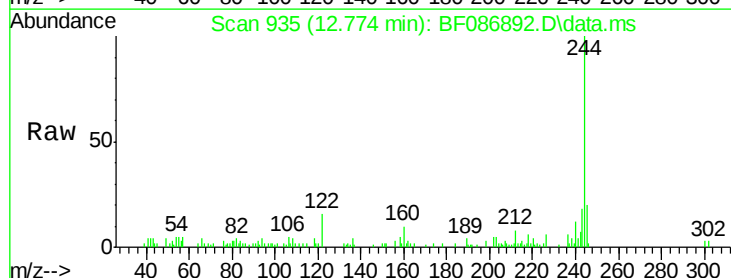
Tgt Ion:244 Resp: 28343

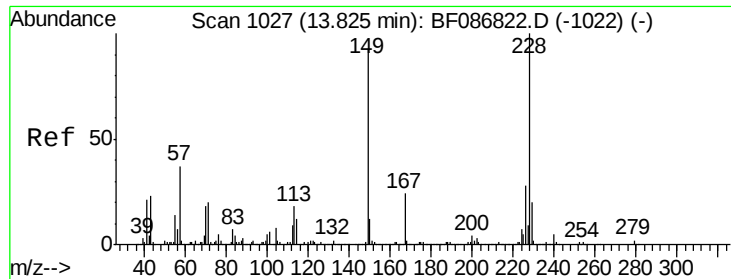
Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

122 15.8 12.0 18.0





#80

Benzo(a)anthracene

Concen: 3.07 ng

RT: 13.848 min Scan# 1027

Delta R.T. 0.023 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

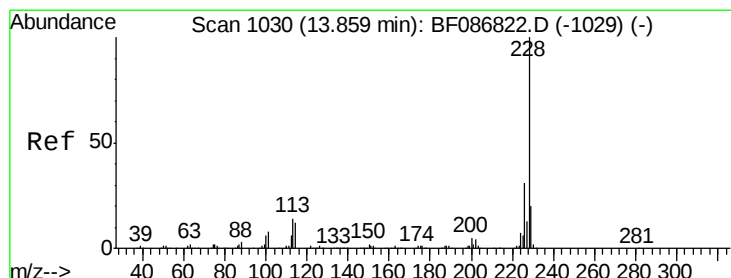
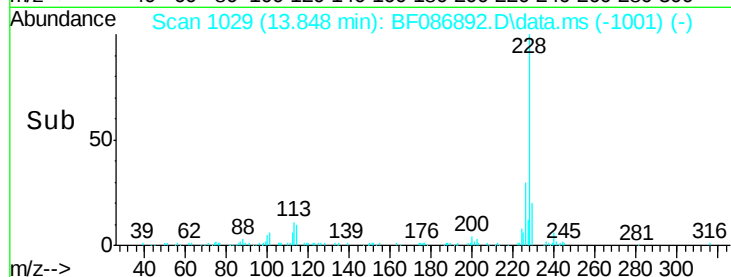
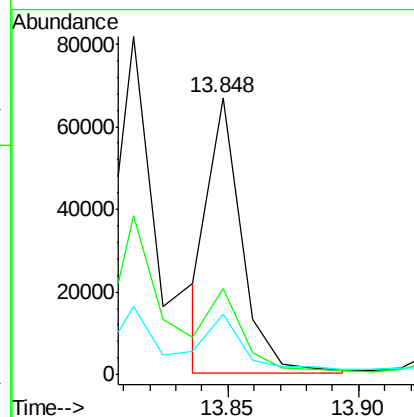
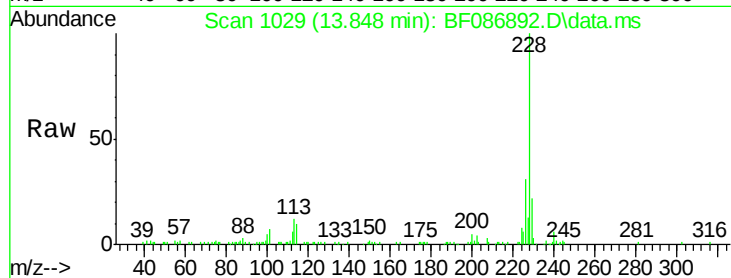
Tot Ion:228 Resp: 56996

Ion Ratio Lower Upper

228 100

226 31.1 22.5 33.7

229 21.8 16.6 25.0



#82

Chrysene

Concen: 3.02 ng

RT: 13.848 min Scan# 1029

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

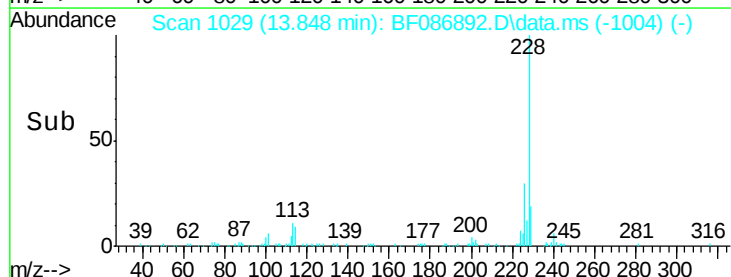
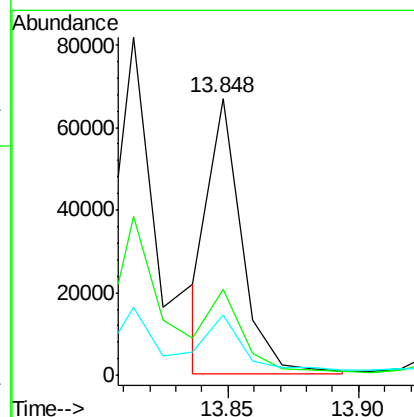
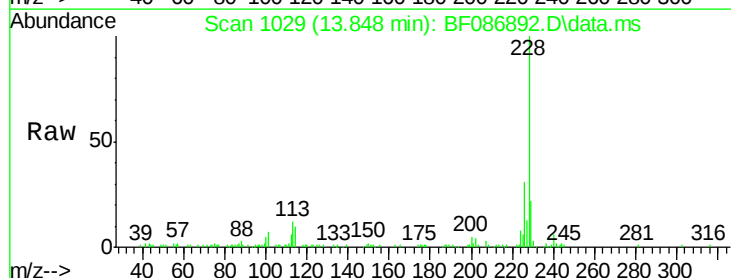
Tgt Ion:228 Resp: 56996

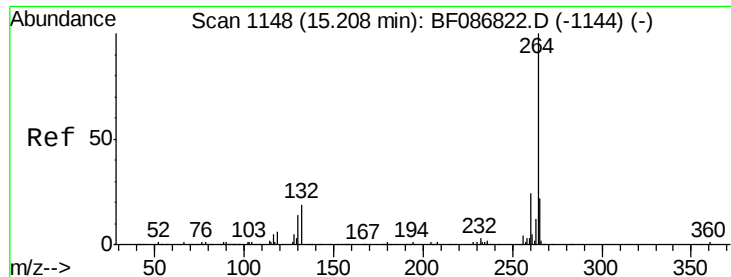
Ion Ratio Lower Upper

228 100

226 31.1 24.4 36.6

229 21.8 15.8 23.8





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.197 min Scan# 1114

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

Instrument :

BNA_F

ClientSampleId :

TEC-B3COMP

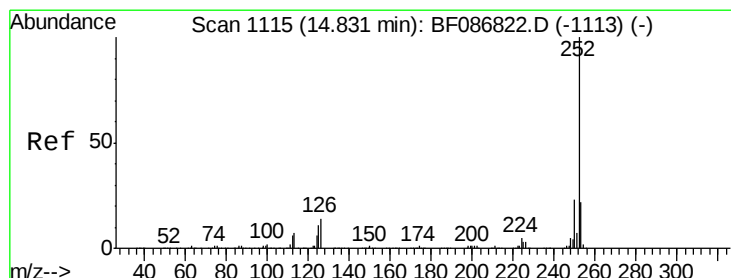
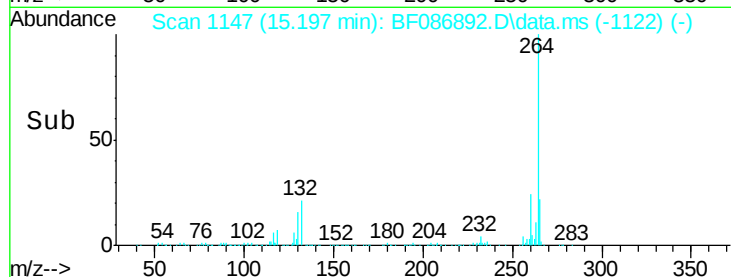
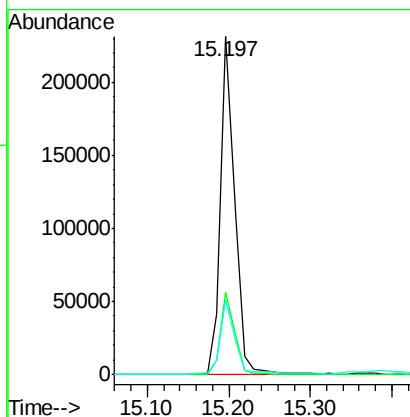
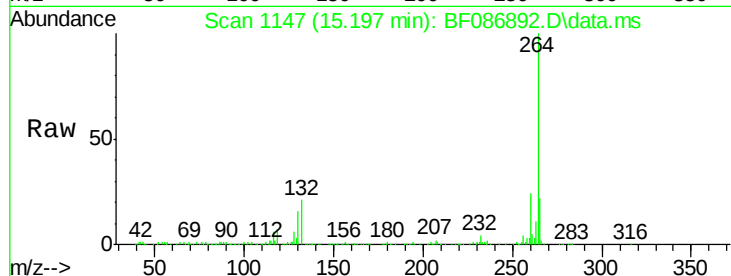
Tot Ion:264 Resp: 278620

Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

265 21.9 17.3 25.9



#87

Benzo(b)fluoranthene

Concen: 3.66 ng

RT: 14.819 min Scan# 1114

Delta R.T. -0.012 min

Lab File: BF086892.D

Acq: 11 May 2016 10:25

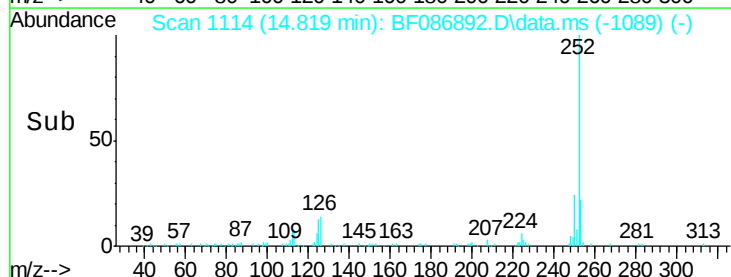
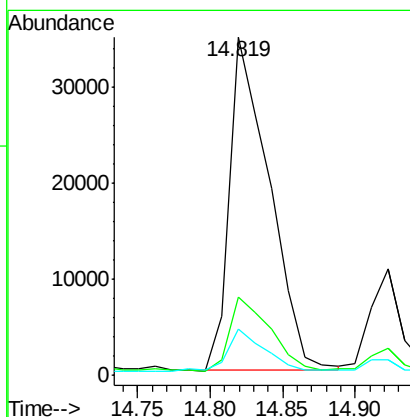
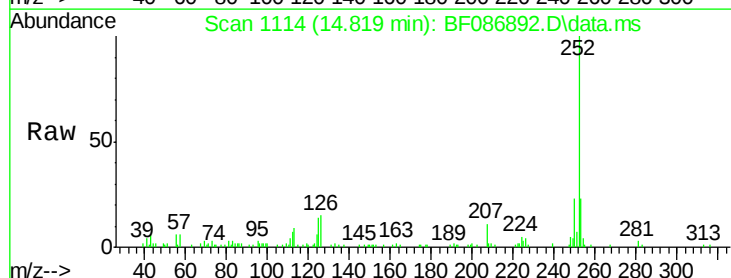
Tgt Ion:252 Resp: 66356

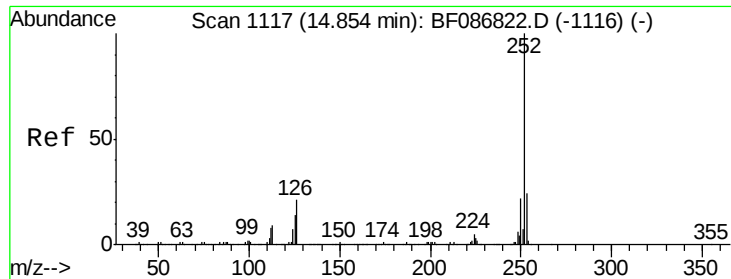
Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.6

125 13.7 11.4 17.0

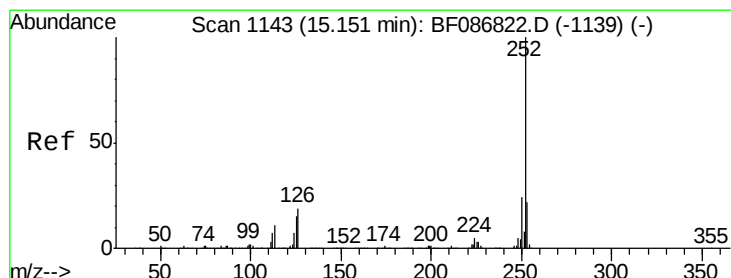
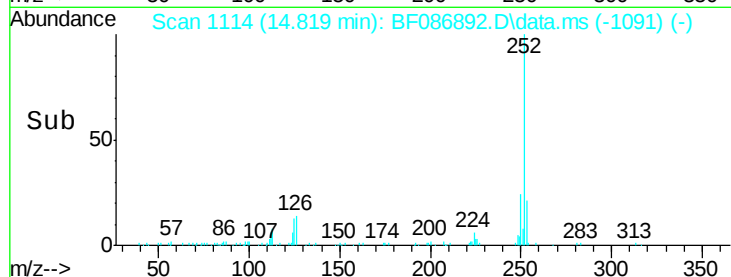
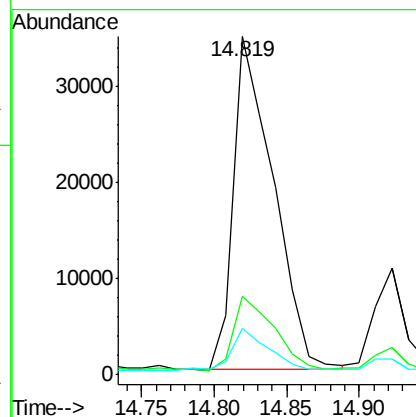
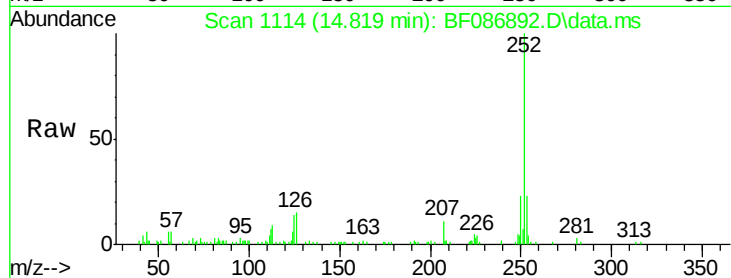




#88
Benzo(k)fluoranthene
Concen: 4.48 ng
RT: 14.819 min Scan# 1117
Delta R.T. -0.034 min
Lab File: BF086892.D
Acq: 11 May 2016 10:25

Instrument :
BNA_F
ClientSampleId :
TEC-B3COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.6
125	13.7	9.1	13.7#



#89
Benzo(a)pyrene
Concen: 2.03 ng
RT: 15.094 min Scan# 1138
Delta R.T. -0.057 min
Lab File: BF086892.D
Acq: 11 May 2016 10:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.2	25.8
125	12.9	9.0	13.6

