

Data Path : Z:\HPCHEM1\BNA F\Data\BF050316\
 Data File : BF086644.D
 Acq On : 3 May 2016 14:54
 Operator : UM/SJ
 Sample : H2757-05DL 10X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B5(1)DL

Quant Time: May 03 15:23:27 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 27 14:20:52 2016
 Response via : Initial Calibration

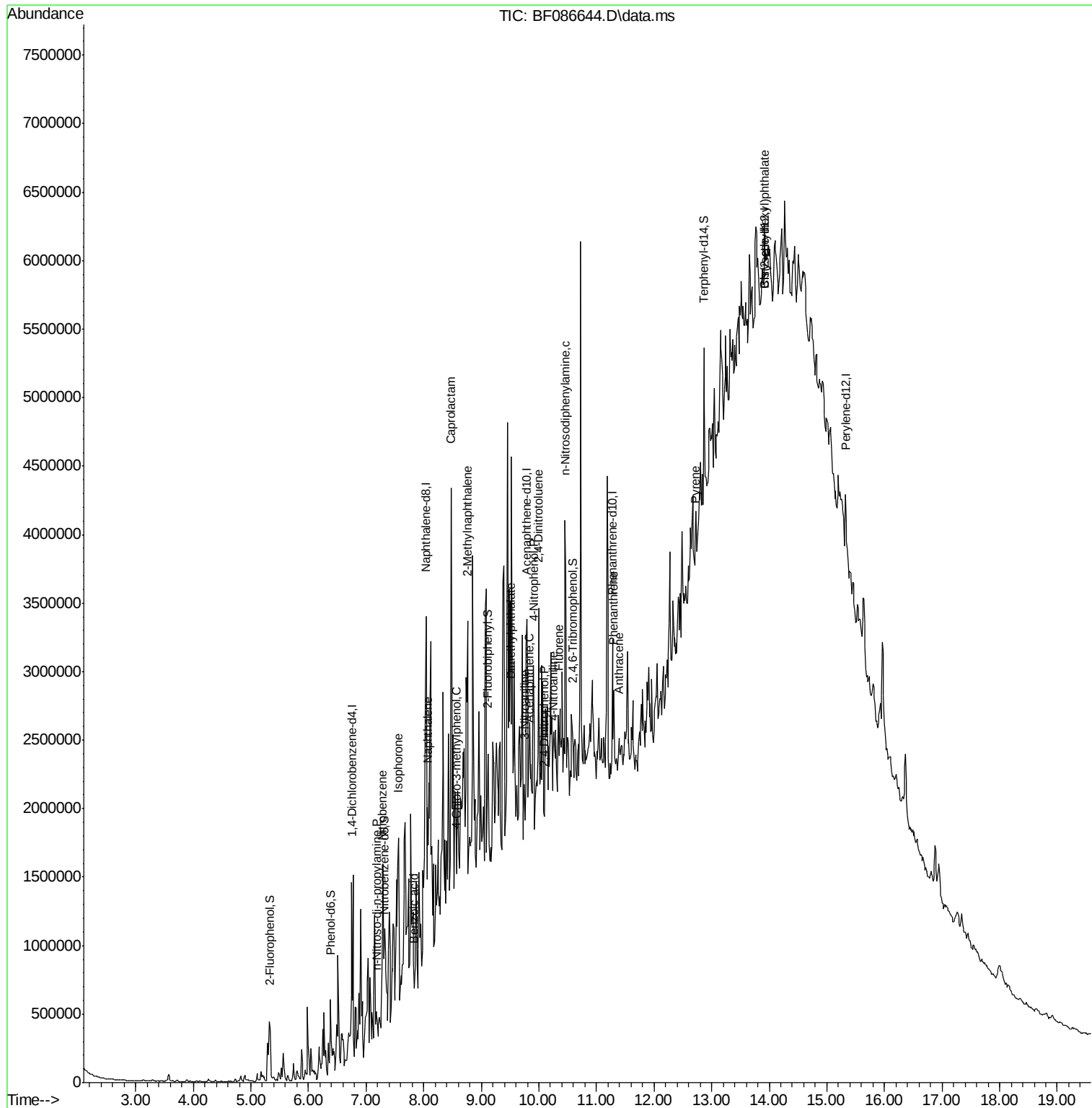
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

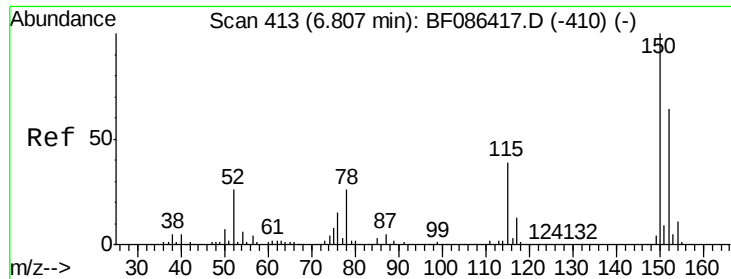
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.750	152	166917	20.00	ng	-0.06
21) Naphthalene-d8	8.042	136	603664	20.00	ng	-0.06
38) Acenaphthene-d10	9.790	164	257069	20.00	ng	-0.06
63) Phenanthrene-d10	11.276	188	426109	20.00	ng	-0.05
75) Chrysene-d12	13.917	240	266721	20.00	ng	-0.05
86) Perylene-d12	15.322	264	295866	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.333	112	160160	16.55	ng	-0.06
7) Phenol-d6	6.384	99	230101	17.04	ng	-0.06
23) Nitrobenzene-d5	7.310	82	139847	12.49	ng	-0.07
41) 2,4,6-Tribromophenol	10.579	330	42789	15.78	ng	-0.06
44) 2-Fluorobiphenyl	9.116	172	245829	9.21	ng	-0.06
78) Terphenyl-d14	12.865	244	133116	11.00	ng	-0.05
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	7.185	70	20751	2.32	ng	# 79
24) Nitrobenzene	7.287	77	47177	4.10	ng	# 40
25) Isophorone	7.562	82	57292	2.66	ng	# 1
31) Naphthalene	8.065	128	74484	2.42	ng	# 37
32) Benzoic acid	7.836	122	8194	9.97	ng	# 15
35) Caprolactam	8.476	113	62499	23.86	ng	# 1
36) 4-Chloro-3-methylphenol	8.568	107	19318	2.15	ng	# 33
37) 2-Methylnaphthalene	8.762	142	713897	39.39	ng	# 99
49) Dimethylphthalate	9.516	163	42371	2.19	ng	# 62
51) Acenaphthene	9.825	154	53690	3.27	ng	# 89
52) 3-Nitroaniline	9.745	138	13653	3.00	ng	# 29
53) 2,4-Dinitrophenol	10.088	184	6219	10.40	ng	# 95
55) 4-Nitrophenol	9.905	139	37746	12.68	ng	# 17
56) 2,4-Dinitrotoluene	9.996	165	14159	2.78	ng	# 43
57) Fluorene	10.339	166	63161	3.55	ng	# 79
61) 4-Nitroaniline	10.248	138	21069	4.74	ng	# 92
65) n-Nitrosodiphenylamine	10.453	169	122576	9.20	ng	# 59
70) Phenanthrene	11.299	178	162175	7.25	ng	# 93
71) Anthracene	11.391	178	80477	3.37	ng	# 1
77) Pyrene	12.716	202	48613	2.53	ng	# 78
83) Bis(2-ethylhexyl)phtha...	13.917	149	45449	4.40	ng	# 75

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

```
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.750 min Scan# 40

Delta R.T. -0.057 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

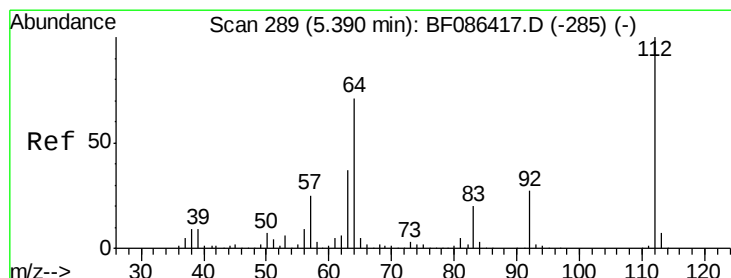
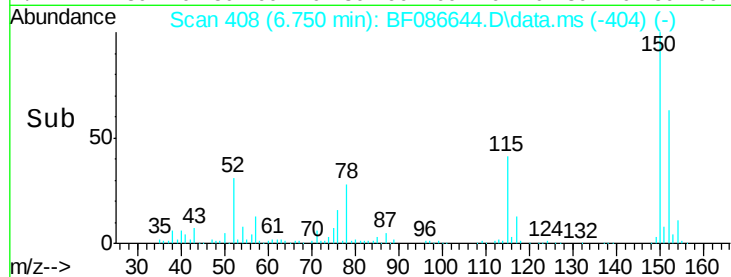
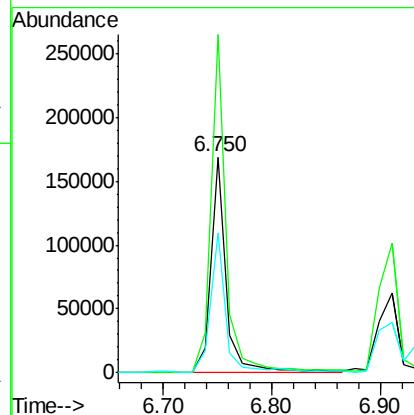
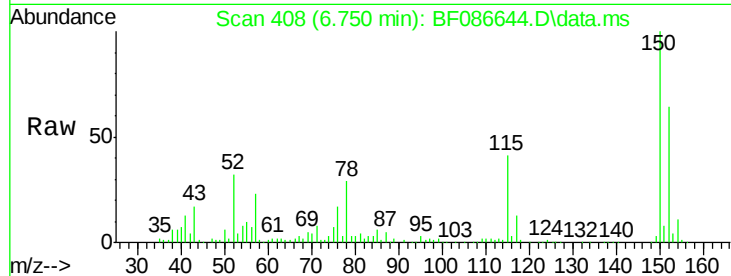
Tot Ion:152 Resp: 166917

Ion Ratio Lower Upper

152 100

150 157.0 125.8 188.6

115 64.8 51.5 77.3



#5

2-Fluorophenol

Concen: 16.55 ng

RT: 5.333 min Scan# 284

Delta R.T. -0.056 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

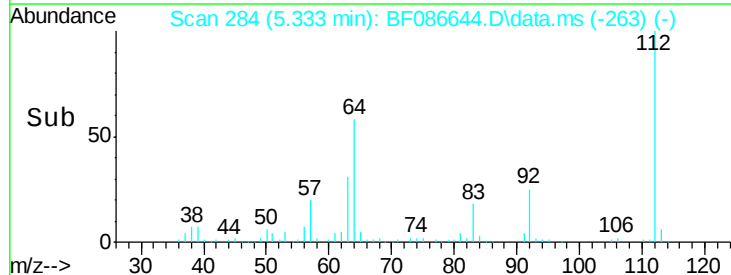
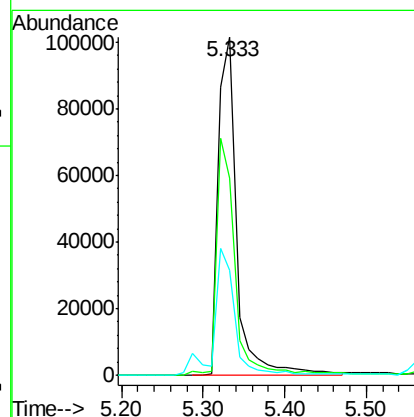
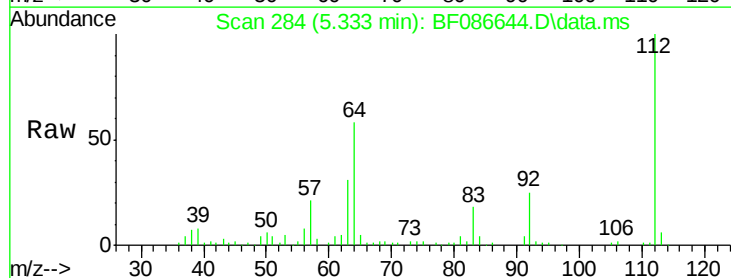
Tgt Ion:112 Resp: 160160

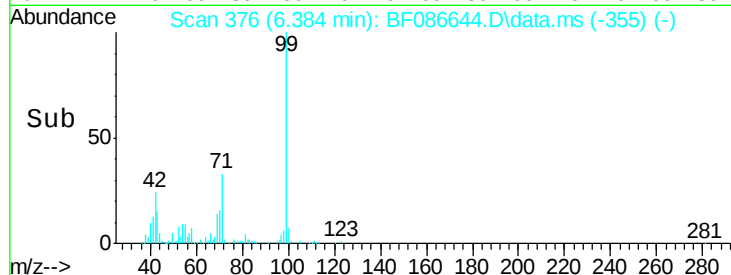
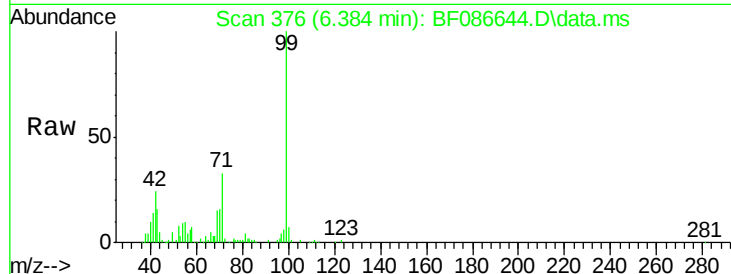
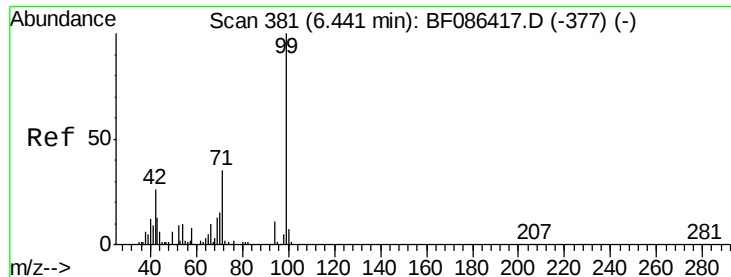
Ion Ratio Lower Upper

112 100

64 58.4 52.1 78.1

63 31.1 25.7 38.5

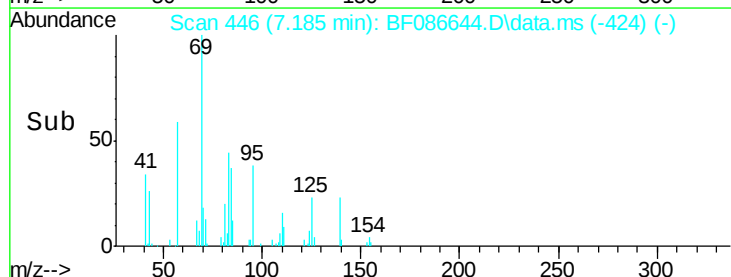
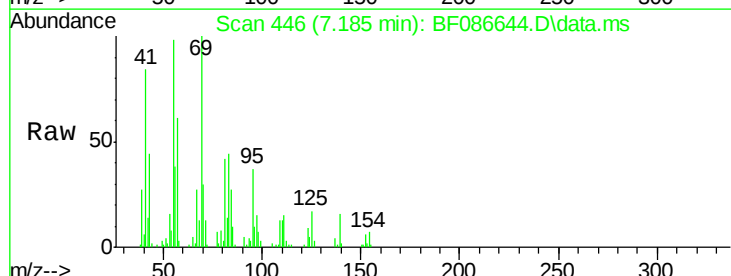
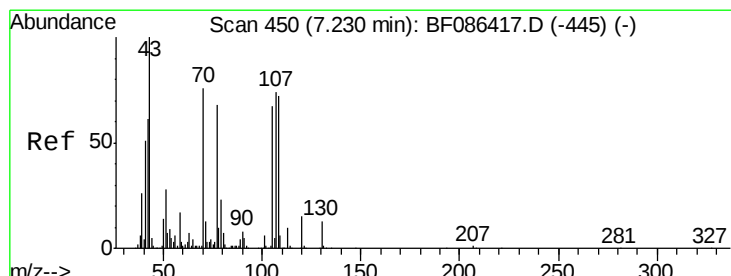
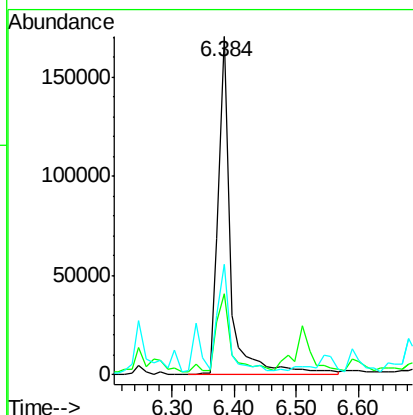




#7
Phenol-d6
Concen: 17.04 ng
RT: 6.384 min Scan# 37
Delta R.T. -0.057 min
Lab File: BF086644.D
Acq: 3 May 2016 14:54

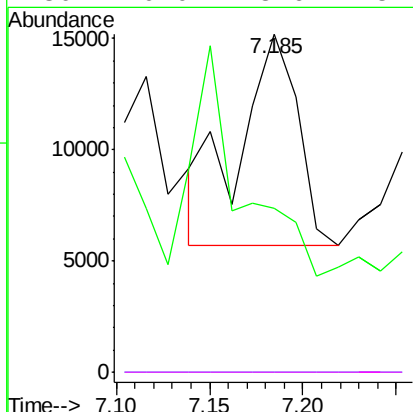
Instrument :
BNA_F
ClientSampleId :
B5(1)DL

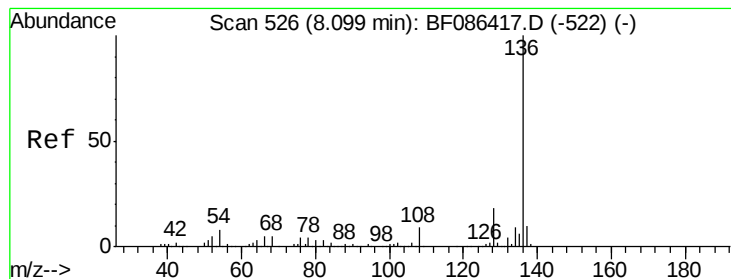
Tot Ion: 99 Resp: 230101
Ion Ratio Lower Upper
99 100
42 24.0 13.6 20.4#
71 32.8 24.6 36.8



#19
n-Nitroso-di-n-propylamine
Concen: 2.32 ng
RT: 7.185 min Scan# 446
Delta R.T. -0.045 min
Lab File: BF086644.D
Acq: 3 May 2016 14:54

Tgt Ion: 70 Resp: 20751
Ion Ratio Lower Upper
70 100
42 48.4 43.1 64.7
101 0.0 8.1 12.1#
130 0.0 18.6 28.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.042 min Scan# 521

Delta R.T. -0.057 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

Tot Ion:136 Resp: 603664

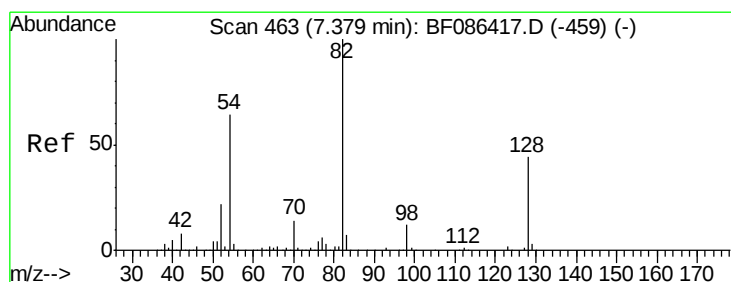
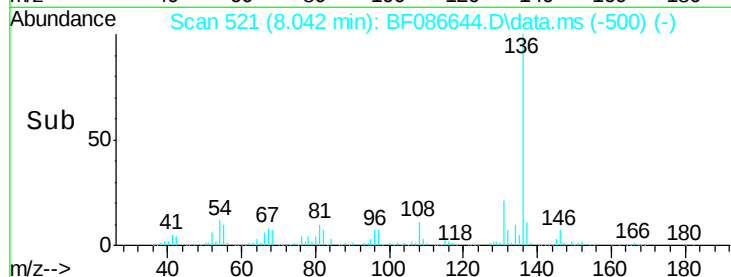
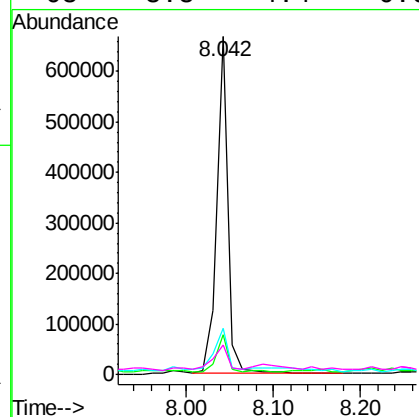
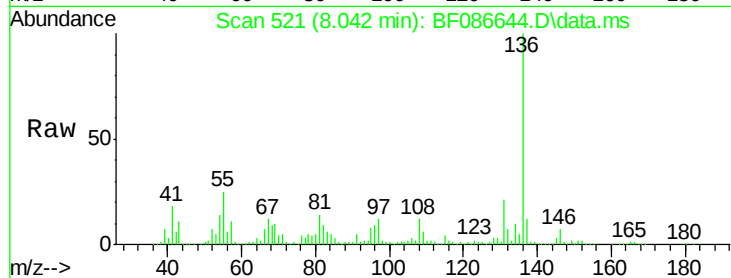
Ion Ratio Lower Upper

136 100

137 11.8 8.8 13.2

54 13.6 5.0 7.4#

68 8.8 4.4 6.6#



#23

Nitrobenzene-d5

Concen: 12.49 ng

RT: 7.310 min Scan# 457

Delta R.T. -0.068 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

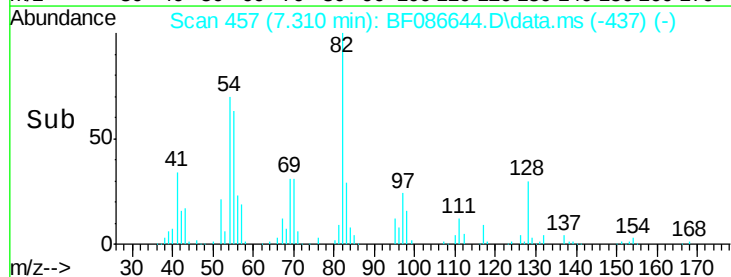
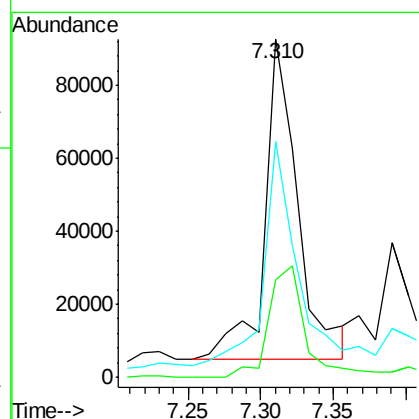
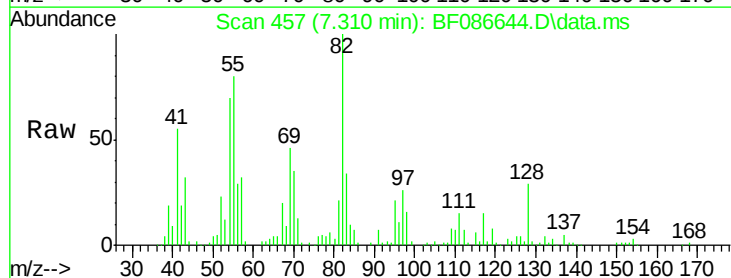
Tgt Ion: 82 Resp: 139847

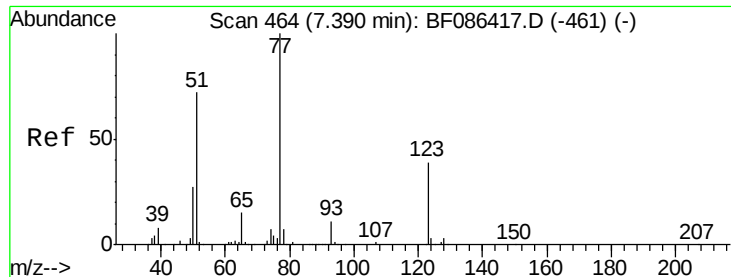
Ion Ratio Lower Upper

82 100

128 29.0 40.6 61.0#

54 69.6 38.1 57.1#

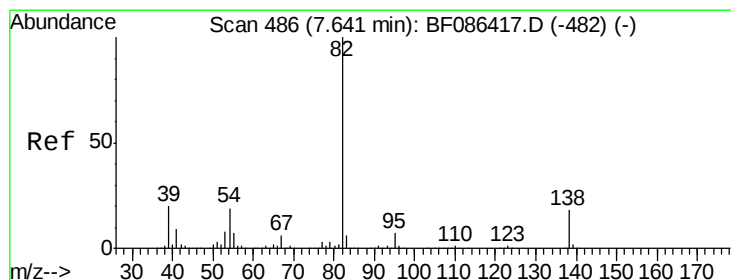
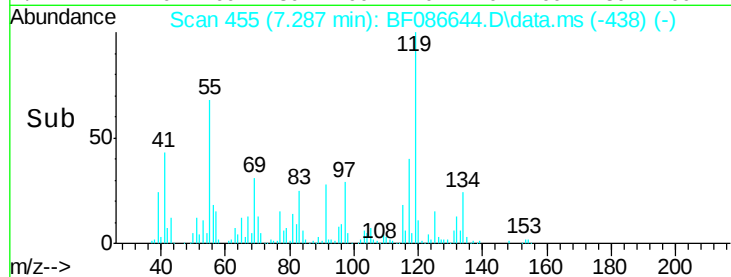
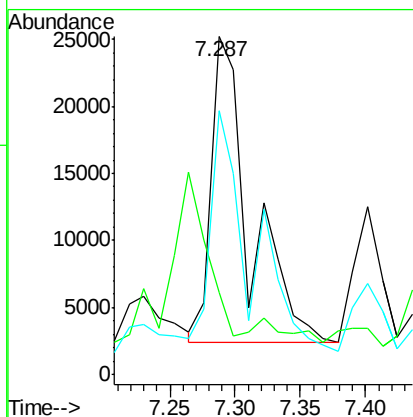
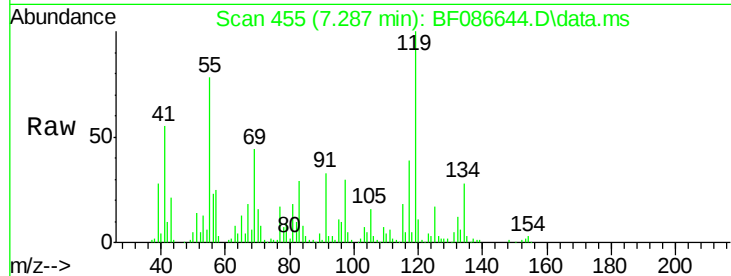




#24
Nitrobenzene
Concen: 4.10 ng
RT: 7.287 min Scan# 45
Delta R.T. -0.103 min
Lab File: BF086644.D
Acq: 3 May 2016 14:54

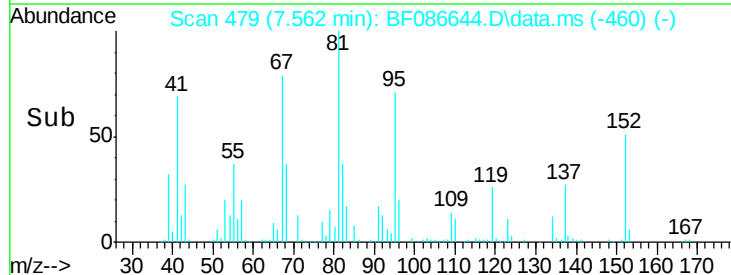
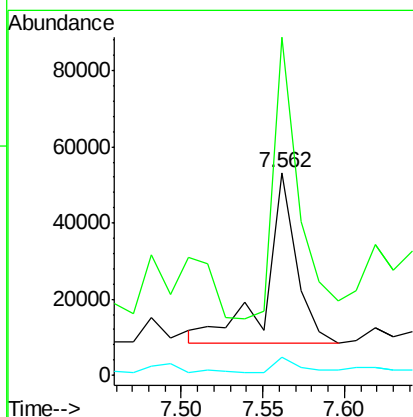
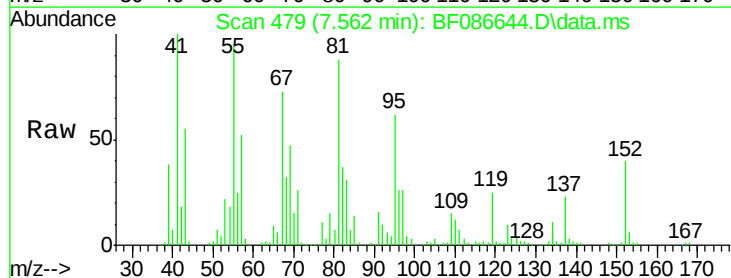
Instrument :
BNA_F
ClientSampleId :
B5(1)DL

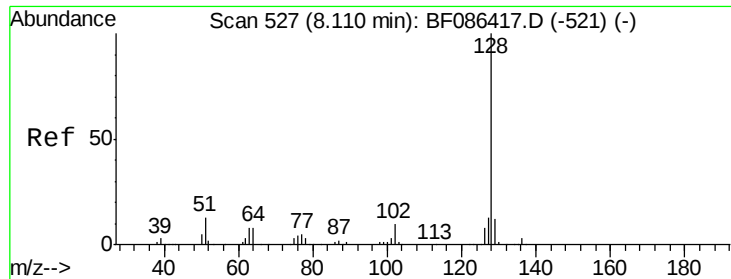
Tot Ion	Ratio	Lower	Upper
77	100		
123	24.3	33.0	49.4#
65	78.2	10.8	16.2#



#25
Isophorone
Concen: 2.66 ng
RT: 7.562 min Scan# 479
Delta R.T. -0.080 min
Lab File: BF086644.D
Acq: 3 May 2016 14:54

Tgt Ion	Ratio	Lower	Upper
82	100		
95	166.7	5.1	7.7#
138	8.6	12.4	18.6#





#31

Naphthalene

Concen: 2.42 ng

RT: 8.065 min Scan# 52

Delta R.T. -0.045 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

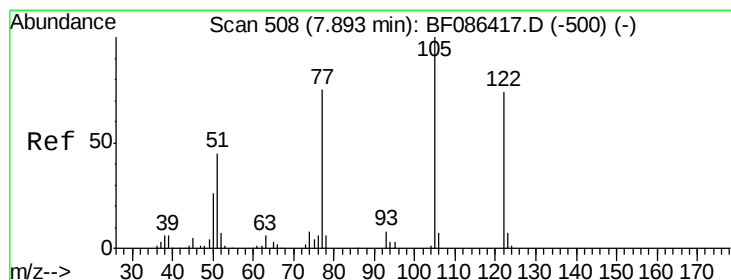
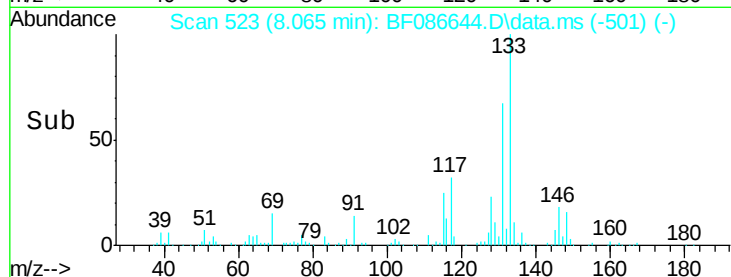
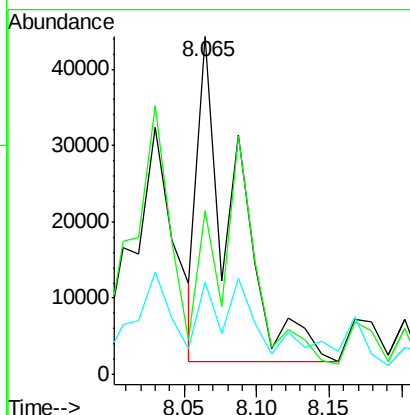
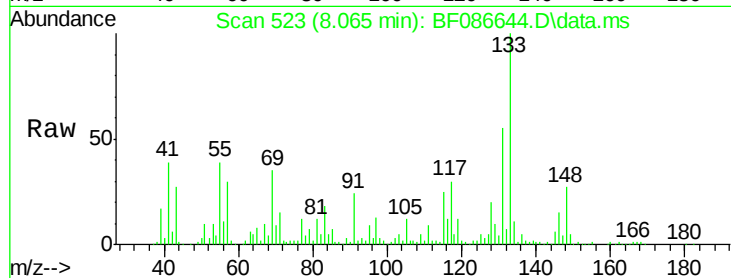
Tot Ion:128 Resp: 74484

Ion Ratio Lower Upper

128 100

129 48.5 8.6 13.0#

127 27.1 10.8 16.2#



#32

Benzoic acid

Concen: 9.97 ng

RT: 7.836 min Scan# 503

Delta R.T. -0.056 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

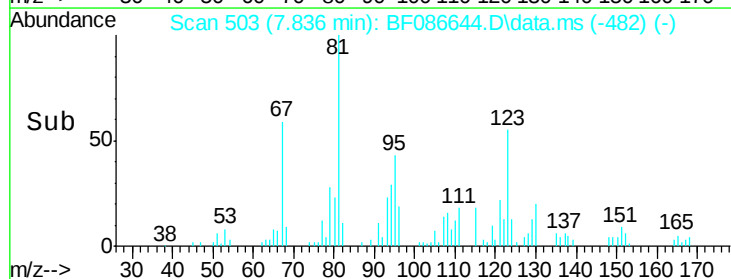
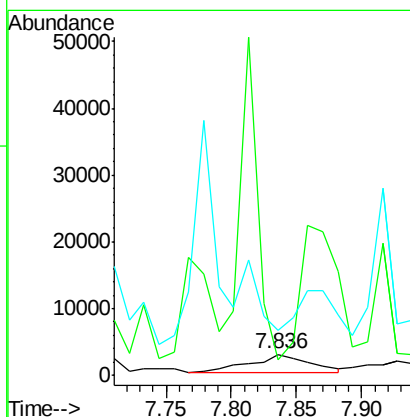
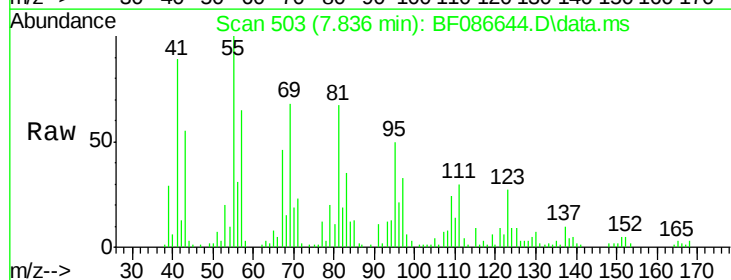
Tgt Ion:122 Resp: 8194

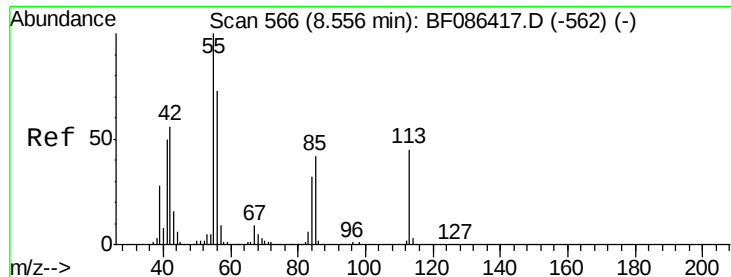
Ion Ratio Lower Upper

122 100

105 75.3 92.6 132.6#

77 216.5 60.0 100.0#





#35

Caprolactam

Concen: 23.86 ng

RT: 8.476 min Scan# 55

Delta R.T. -0.080 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

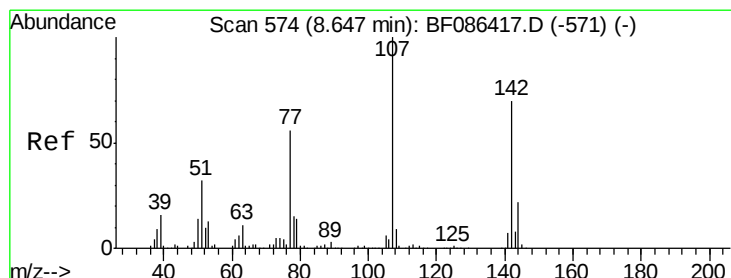
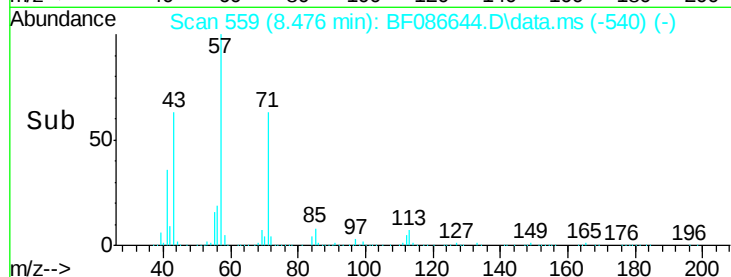
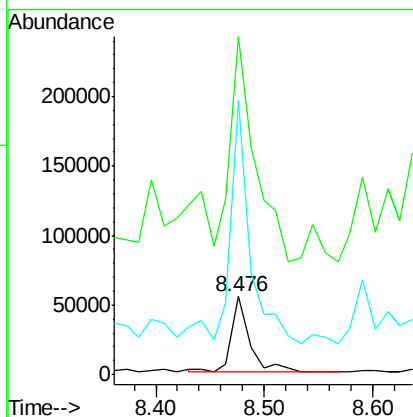
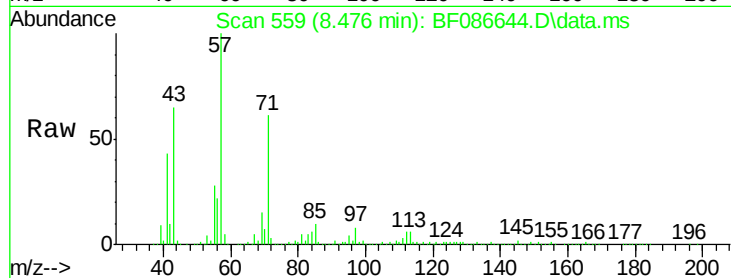
Tot Ion:113 Resp: 62499

Ion Ratio Lower Upper

113 100

55 433.2 162.0 202.0#

56 351.7 115.3 155.3#



#36

4-Chloro-3-methylphenol

Concen: 2.15 ng

RT: 8.568 min Scan# 567

Delta R.T. -0.080 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

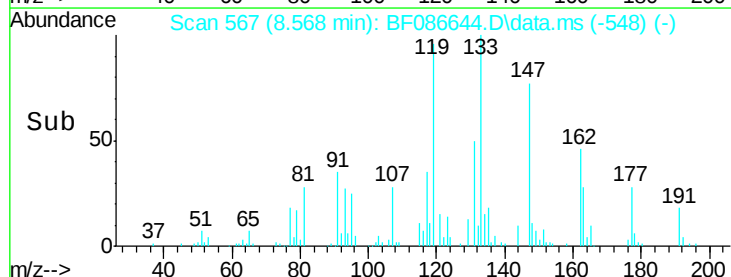
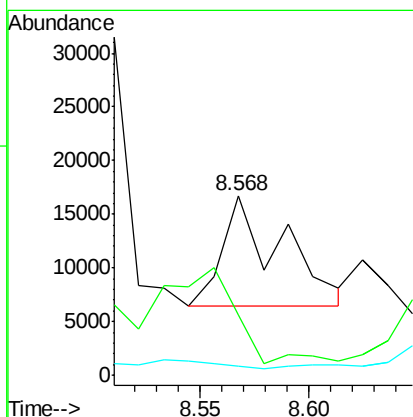
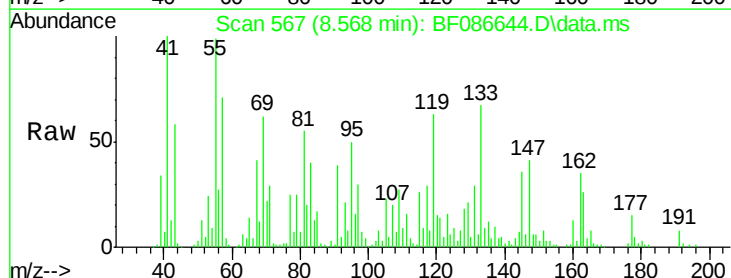
Tgt Ion:107 Resp: 19318

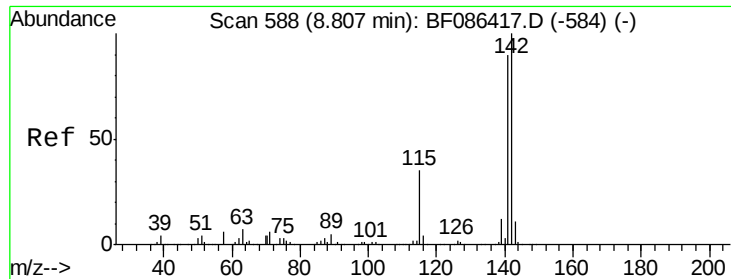
Ion Ratio Lower Upper

107 100

144 33.9 20.7 31.1#

142 5.3 63.2 94.8#

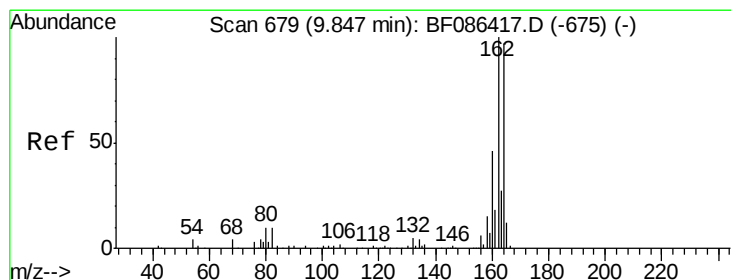
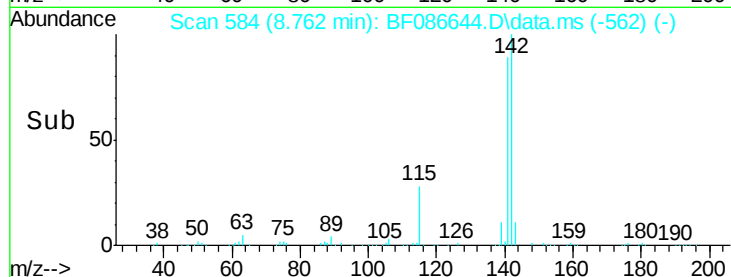
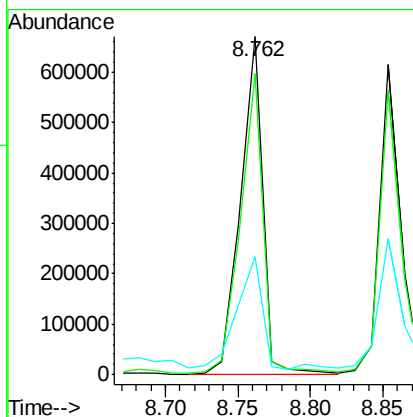
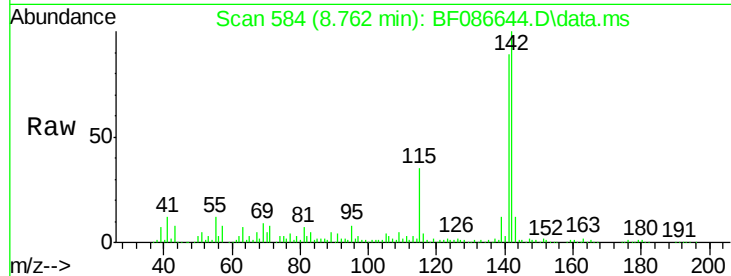




#37
2-Methylnaphthalene
Concen: 39.39 ng
RT: 8.762 min Scan# 58
Delta R.T. -0.045 min
Lab File: BF086644.D
Acq: 3 May 2016 14:54

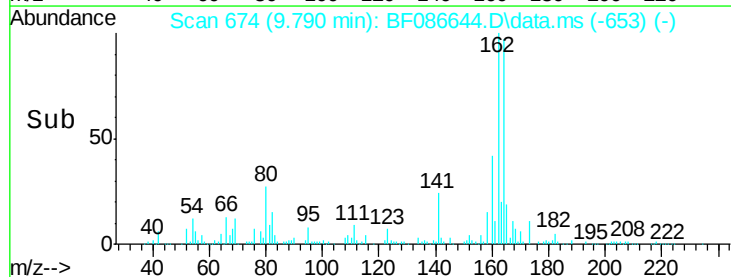
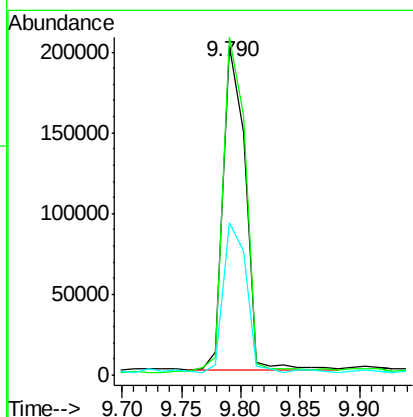
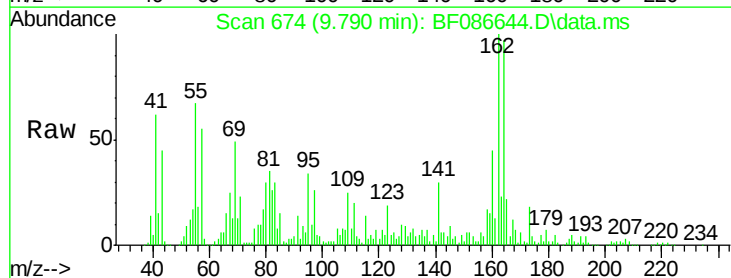
Instrument :
BNA_F
ClientSampleId :
B5(1)DL

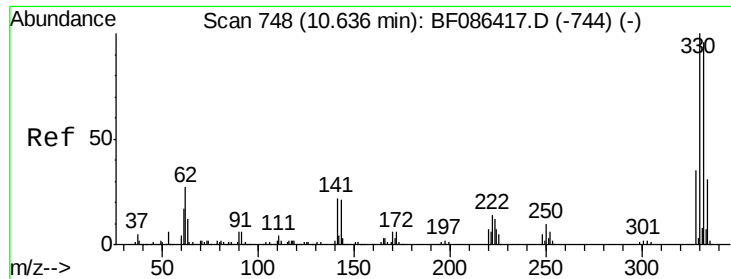
Tot Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.0	106.6
115	35.0	26.6	39.8



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.790 min Scan# 674
Delta R.T. -0.057 min
Lab File: BF086644.D
Acq: 3 May 2016 14:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.8	124.2
160	46.3	36.9	55.3

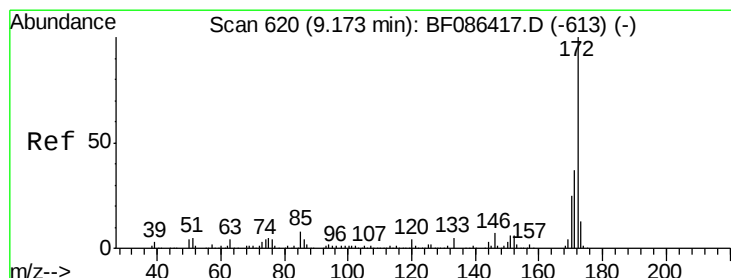
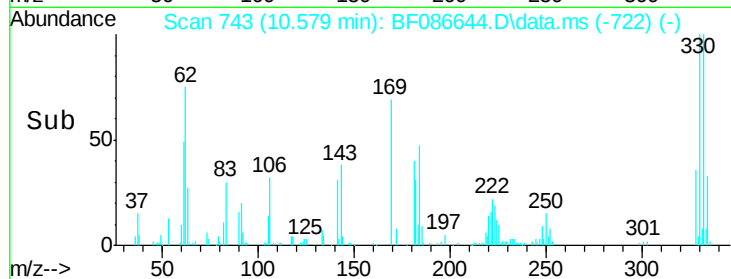
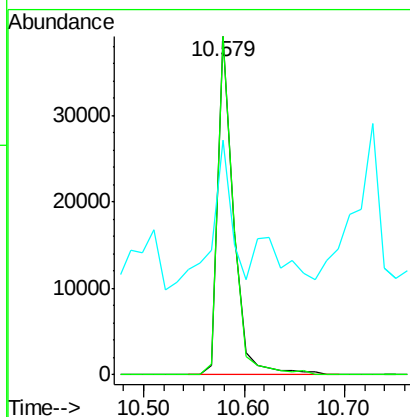
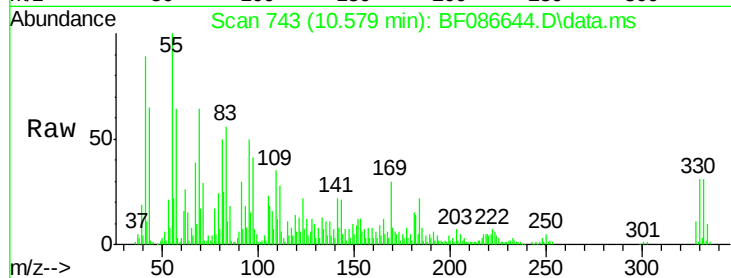




#41
 2,4,6-Tribromophenol
 Concen: 15.78 ng
 RT: 10.579 min Scan# 74
 Delta R.T. -0.057 min
 Lab File: BF086644.D
 Acq: 3 May 2016 14:54

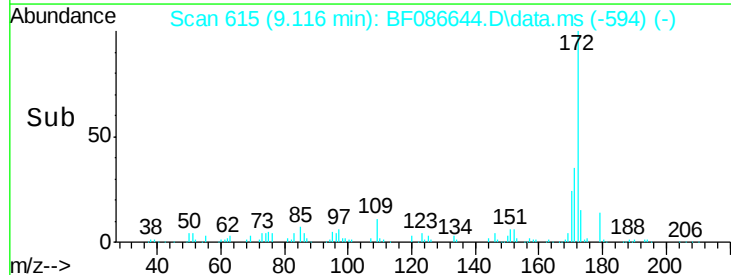
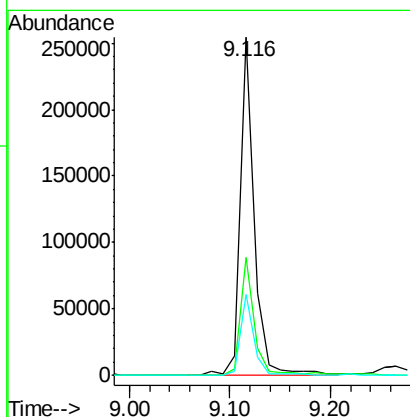
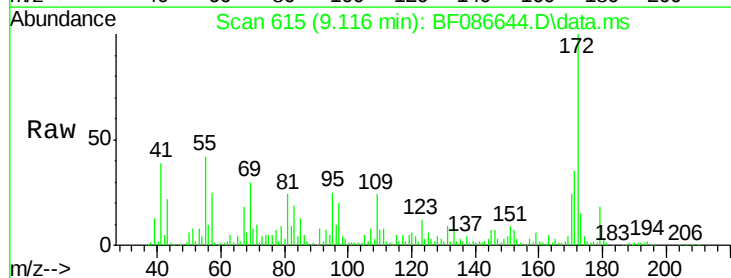
Instrument :
 BNA_F
 ClientSampleId :
 B5(1)DL

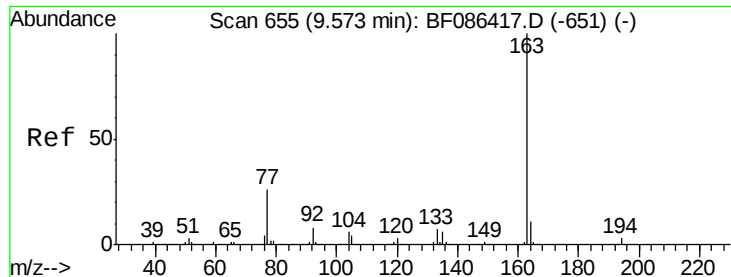
Tot Ion	Ratio	Lower	Upper
330	100		
332	99.6	79.0	118.4
141	46.3	31.2	46.8



#44
 2-Fluorobiphenyl
 Concen: 9.21 ng
 RT: 9.116 min Scan# 615
 Delta R.T. -0.057 min
 Lab File: BF086644.D
 Acq: 3 May 2016 14:54

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.6
170	23.8	19.8	29.8





#49

Dimethylphthalate

Concen: 2.19 ng

RT: 9.516 min Scan# 65

Delta R.T. -0.057 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

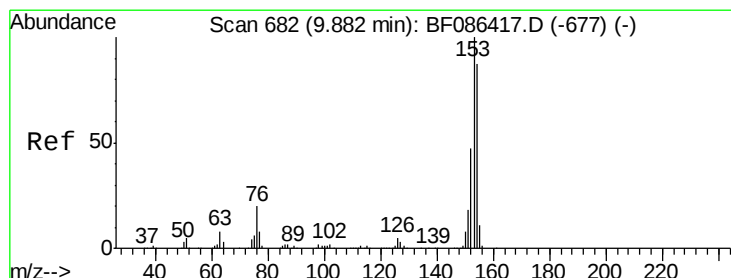
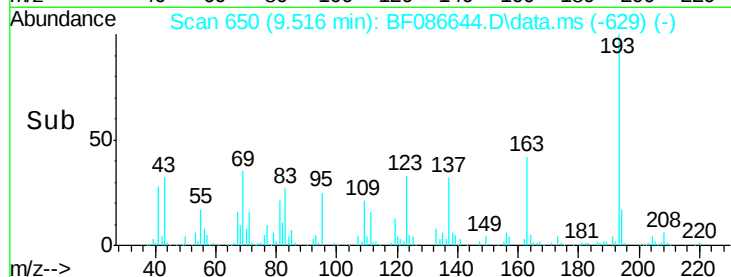
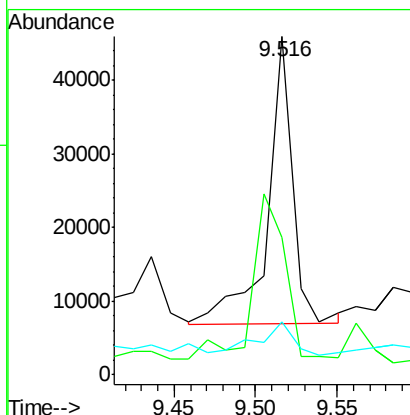
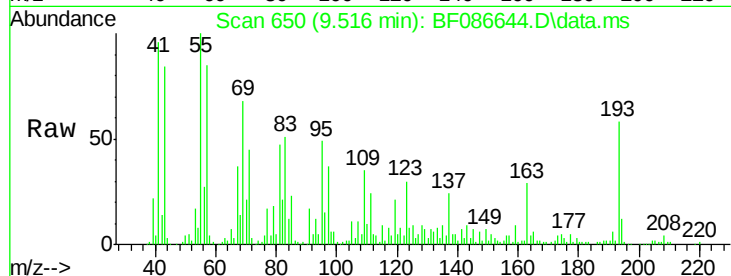
Tot Ion:163 Resp: 42371

Ion Ratio Lower Upper

163 100

194 40.6 2.6 4.0#

164 15.4 8.2 12.4#



#51

Acenaphthene

Concen: 3.27 ng

RT: 9.825 min Scan# 677

Delta R.T. -0.057 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

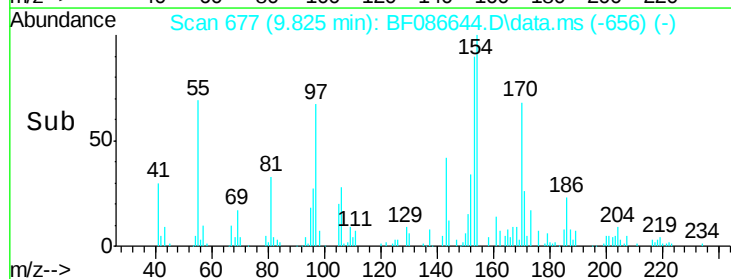
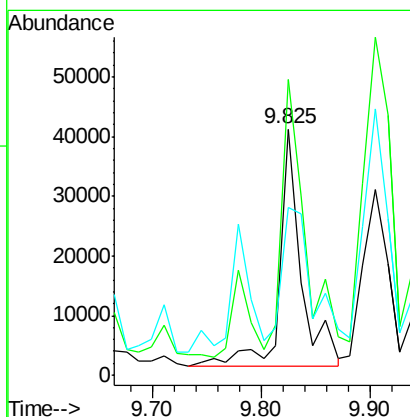
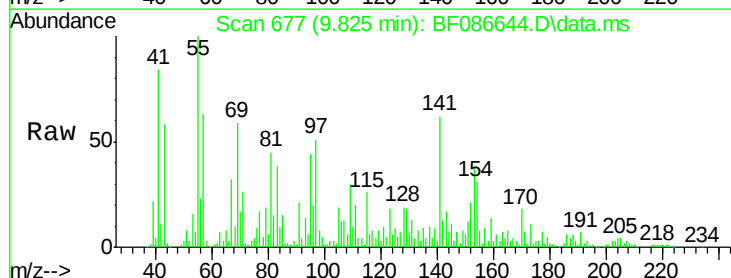
Tgt Ion:154 Resp: 53690

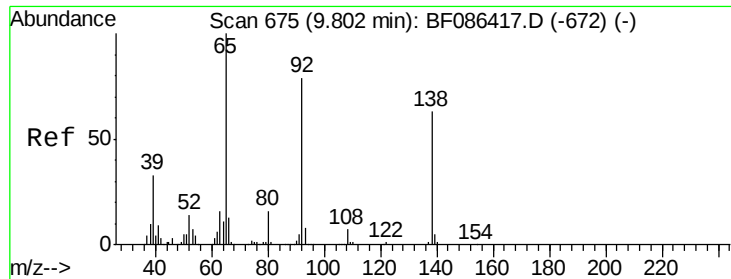
Ion Ratio Lower Upper

154 100

153 120.1 89.8 134.6

152 68.4 43.4 65.0#





#52

3-Nitroaniline

Concen: 3.00 ng

RT: 9.745 min Scan# 67

Delta R.T. -0.057 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

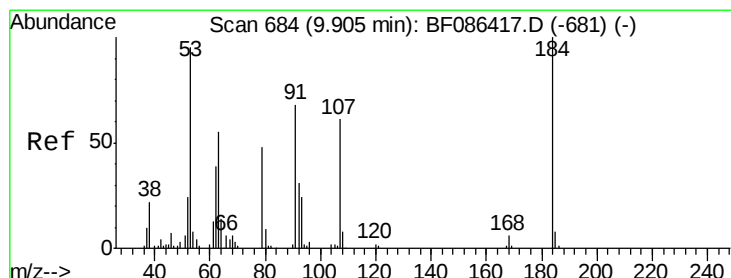
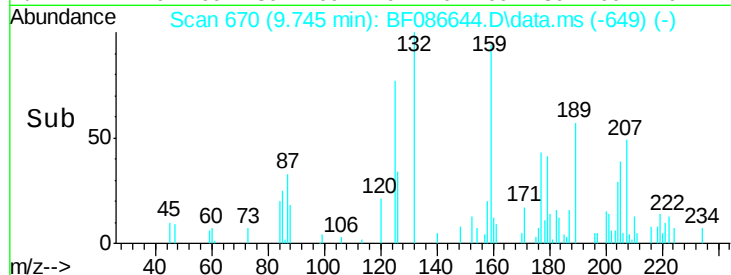
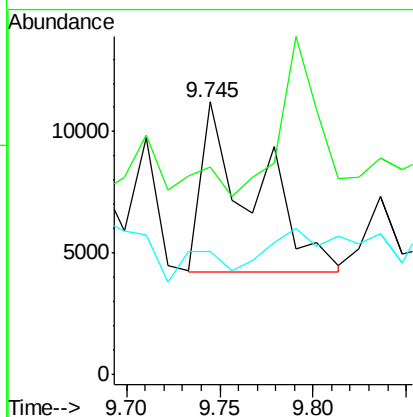
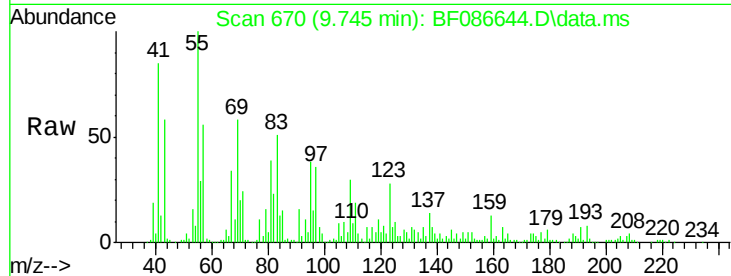
Tot Ion:138 Resp: 13653

Ion Ratio Lower Upper

138 100

108 76.2 7.8 11.6#

92 45.2 87.8 131.8#



#53

2,4-Dinitrophenol

Concen: 10.40 ng

RT: 10.088 min Scan# 700

Delta R.T. 0.184 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

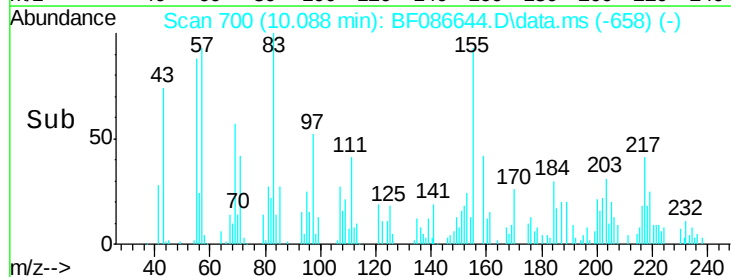
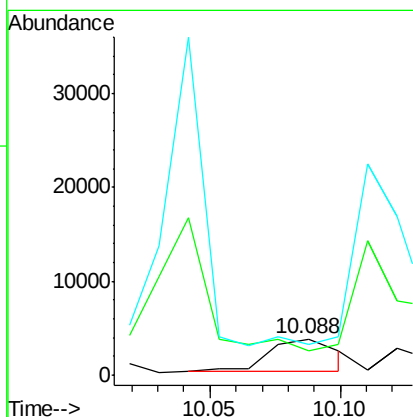
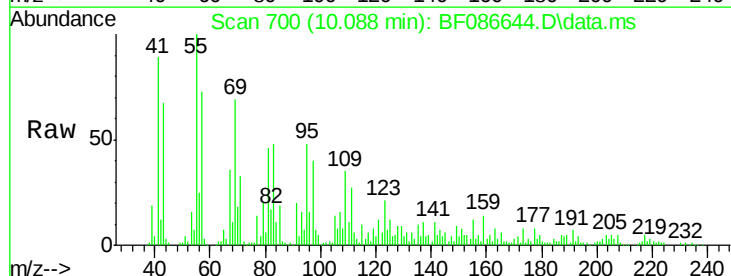
Tgt Ion:184 Resp: 6219

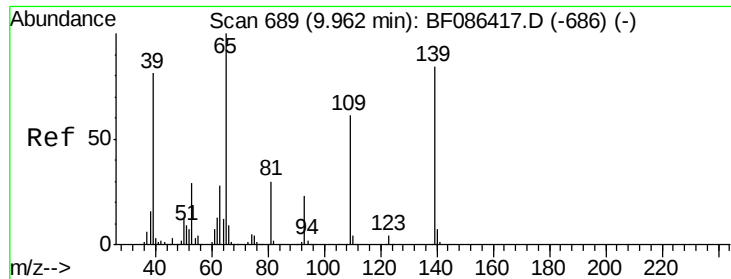
Ion Ratio Lower Upper

184 100

63 67.9 55.8 83.8

154 84.5 62.4 93.6





#55

4-Nitrophenol

Concen: 12.68 ng

RT: 9.905 min Scan# 68

Delta R.T. -0.057 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

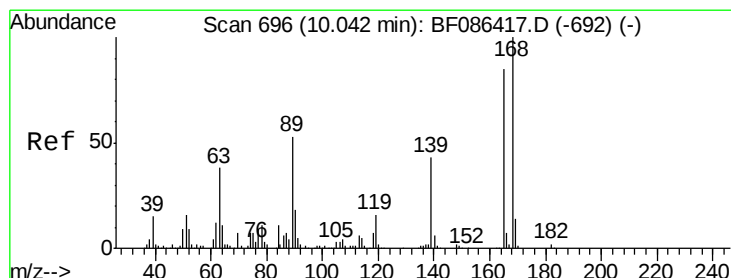
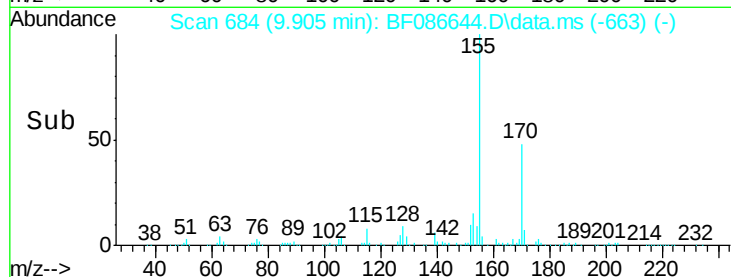
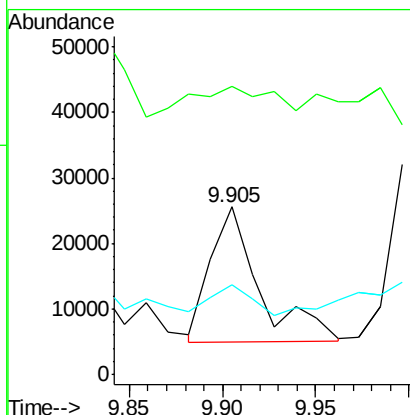
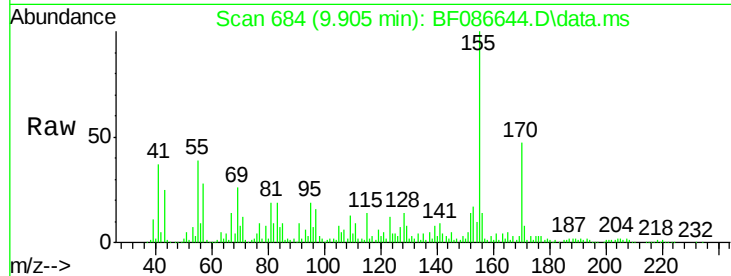
Tot Ion:139 Resp: 37746

Ion Ratio Lower Upper

139 100

109 172.0 36.9 76.9#

65 53.9 64.0 104.0#



#56

2,4-Dinitrotoluene

Concen: 2.78 ng

RT: 9.996 min Scan# 692

Delta R.T. -0.045 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Tgt Ion:165 Resp: 14159

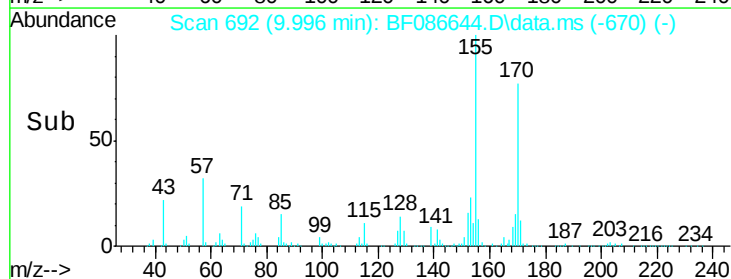
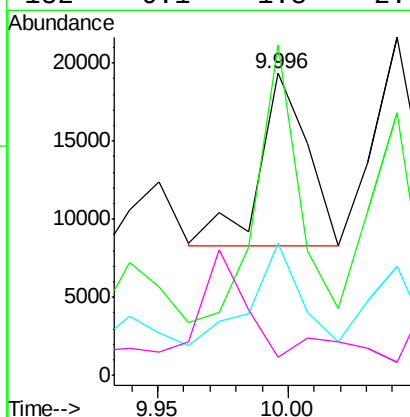
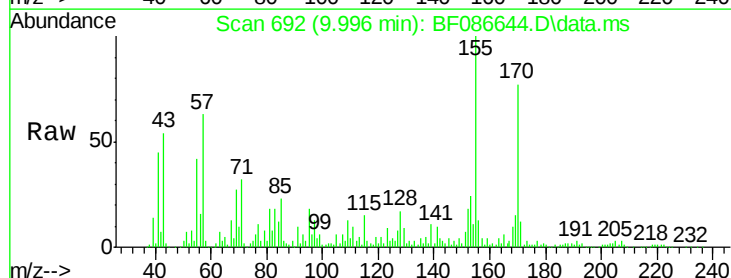
Ion Ratio Lower Upper

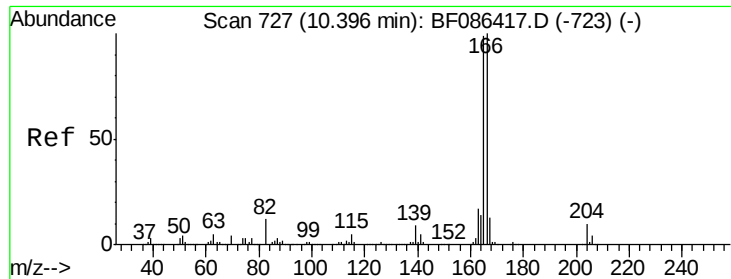
165 100

63 109.4 44.3 66.5#

89 43.8 70.0 105.0#

182 6.1 1.8 2.6#





#57

Fluorene

Concen: 3.55 ng

RT: 10.339 min Scan# 72

Delta R.T. -0.057 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

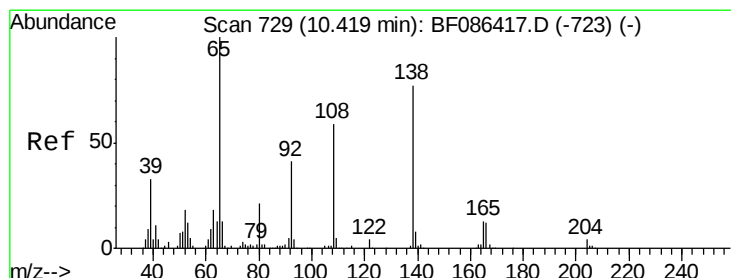
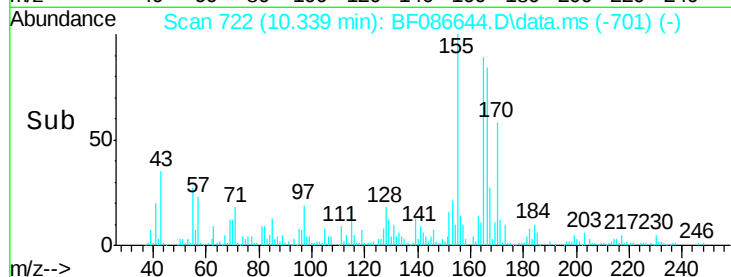
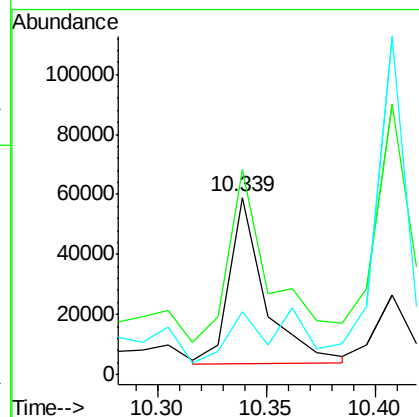
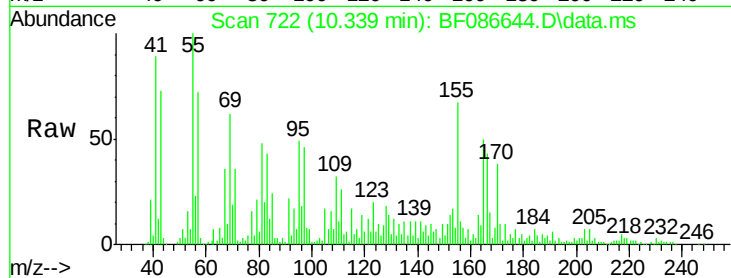
Tot Ion:166 Resp: 63161

Ion Ratio Lower Upper

166 100

165 115.6 79.0 118.6

167 35.4 10.6 15.8#



#61

4-Nitroaniline

Concen: 4.74 ng

RT: 10.248 min Scan# 714

Delta R.T. -0.171 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

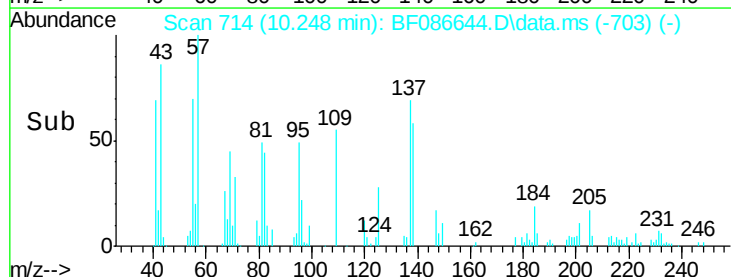
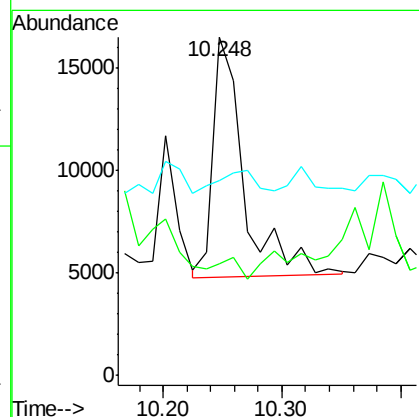
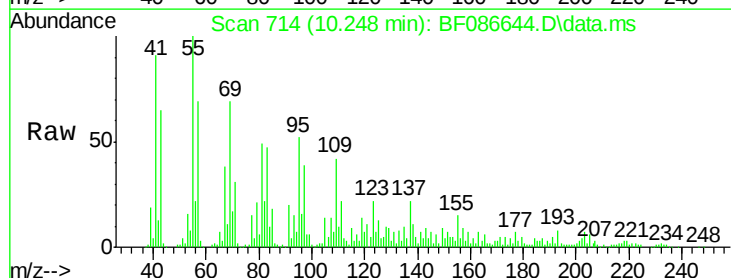
Tgt Ion:138 Resp: 21069

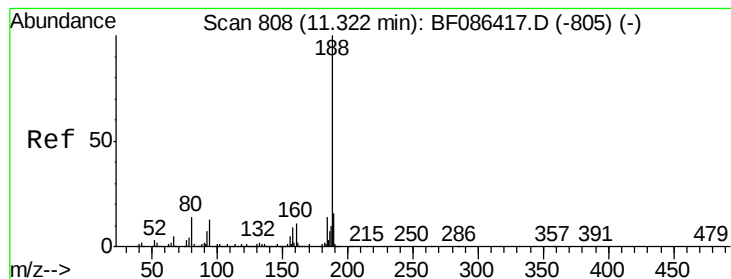
Ion Ratio Lower Upper

138 100

92 32.8 24.7 64.7

108 57.7 37.4 77.4





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.276 min Scan# 80

Delta R.T. -0.045 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

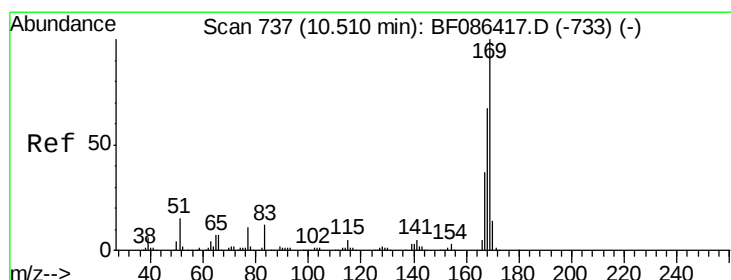
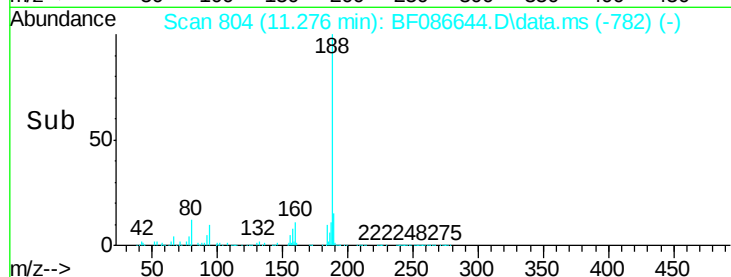
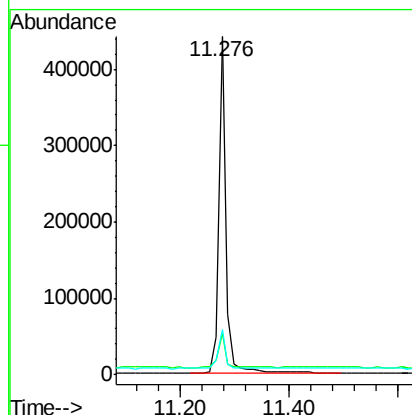
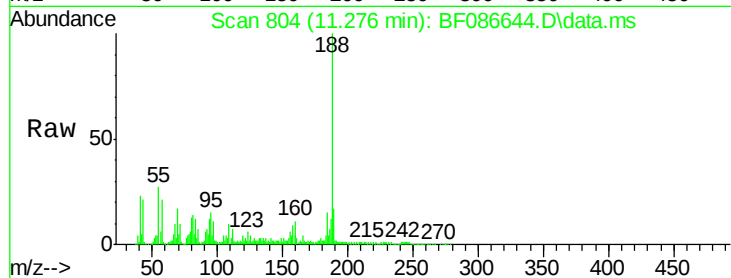
Tot Ion:188 Resp: 426109

Ion Ratio Lower Upper

188 100

94 12.1 6.8 10.2#

80 13.3 7.1 10.7#



#65

n-Nitrosodiphenylamine

Concen: 9.20 ng

RT: 10.453 min Scan# 732

Delta R.T. -0.057 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

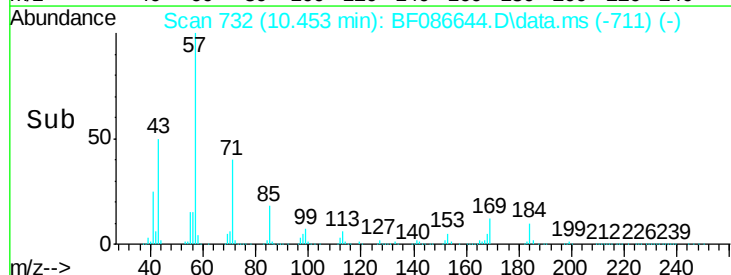
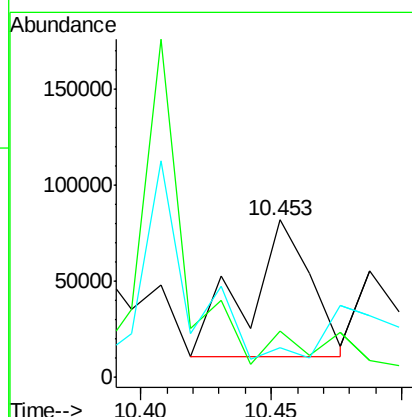
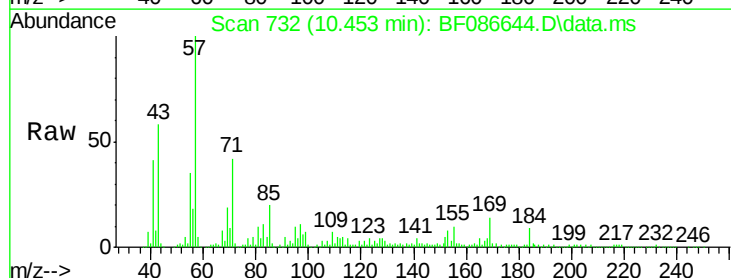
Tgt Ion:169 Resp: 122576

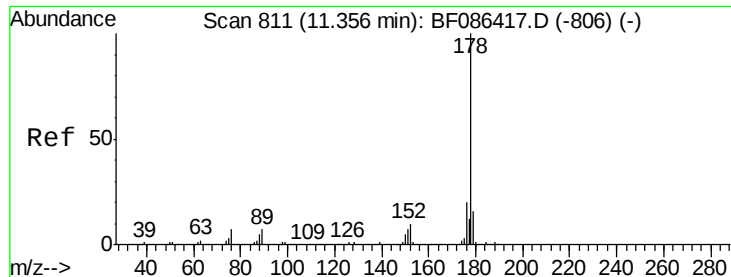
Ion Ratio Lower Upper

169 100

168 29.6 53.8 80.6#

167 18.7 29.5 44.3#





#70

Phenanthrene

Concen: 7.25 ng

RT: 11.299 min Scan# 80

Delta R.T. -0.057 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

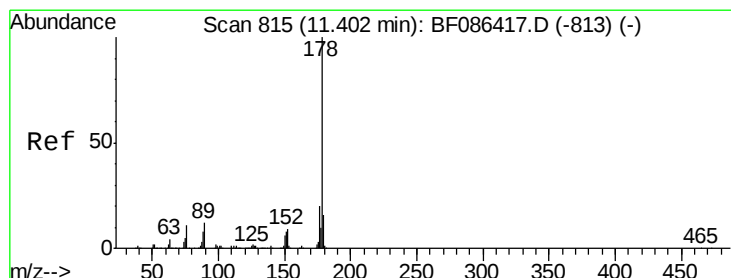
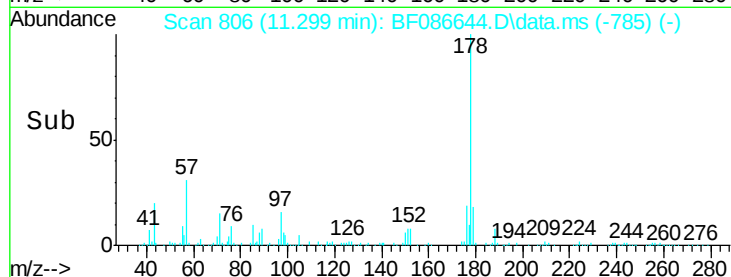
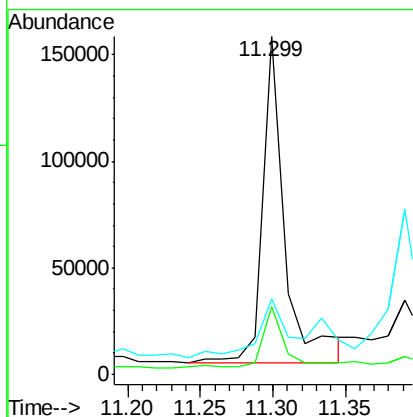
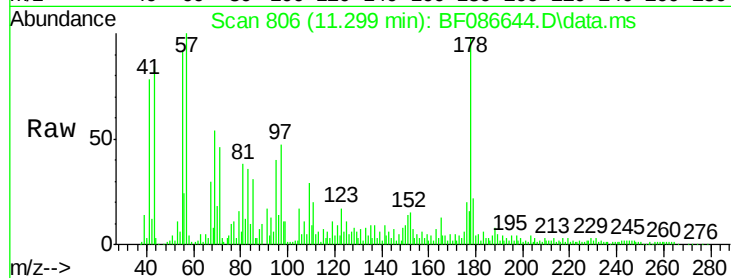
Tot Ion:178 Resp: 162175

Ion Ratio Lower Upper

178 100

176 20.2 16.0 24.0

179 22.4 12.6 18.8#



#71

Anthracene

Concen: 3.37 ng

RT: 11.391 min Scan# 814

Delta R.T. -0.011 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

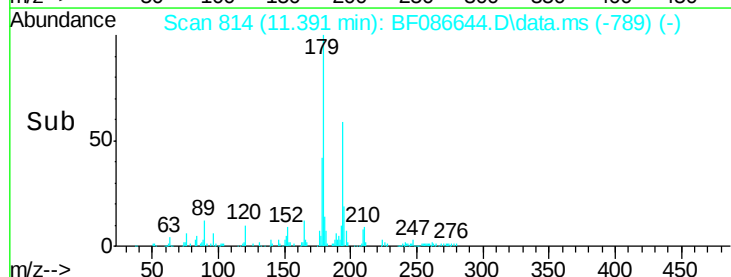
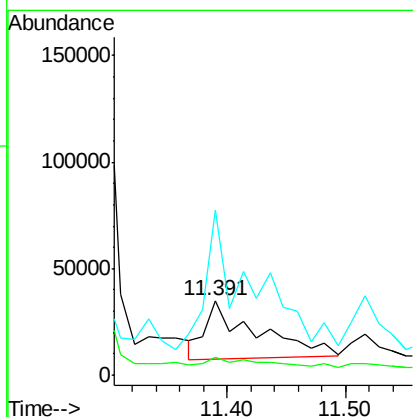
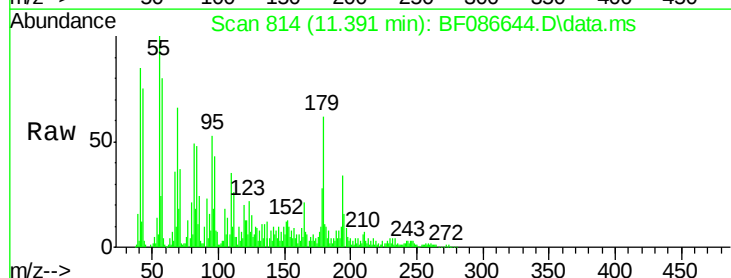
Tgt Ion:178 Resp: 80477

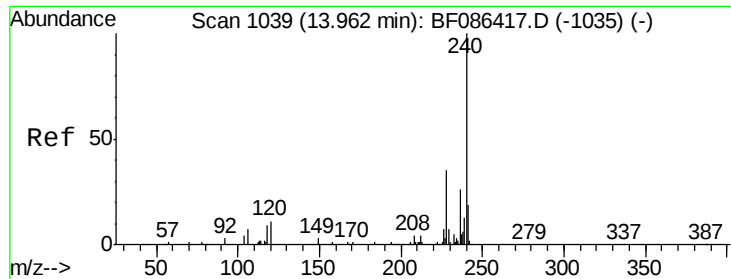
Ion Ratio Lower Upper

178 100

176 24.1 15.6 23.4#

179 222.0 12.7 19.1#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.917 min Scan# 10

Delta R.T. -0.045 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

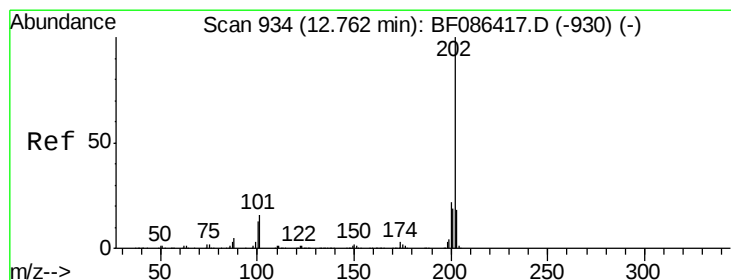
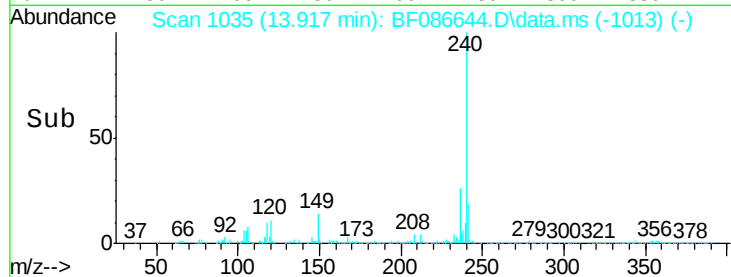
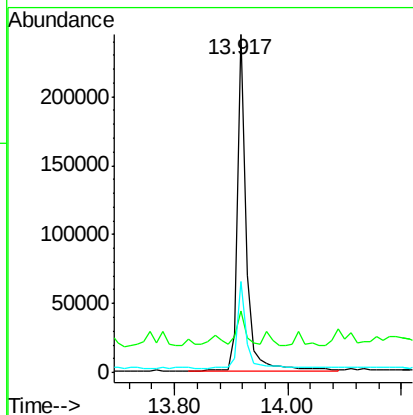
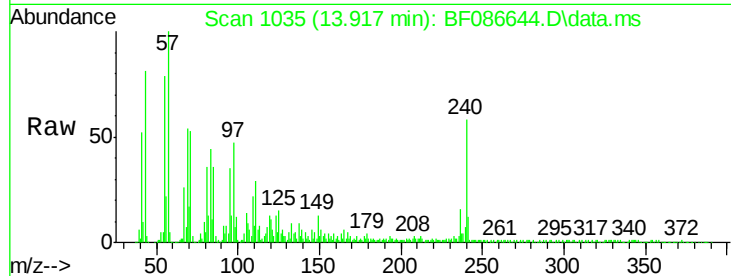
Tot Ion:240 Resp: 266721

Ion Ratio Lower Upper

240 100

120 18.2 11.2 16.8#

236 26.8 21.2 31.8



#77

Pyrene

Concen: 2.53 ng

RT: 12.716 min Scan# 930

Delta R.T. -0.045 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

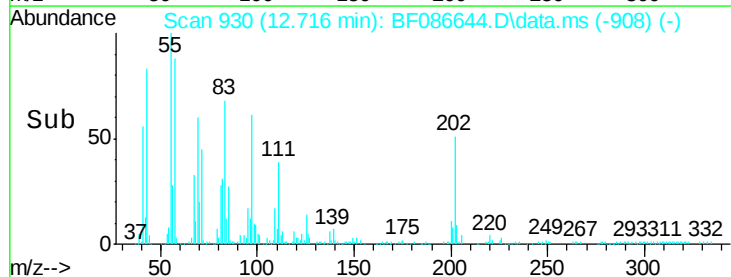
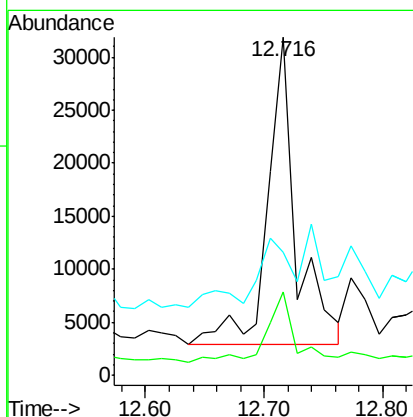
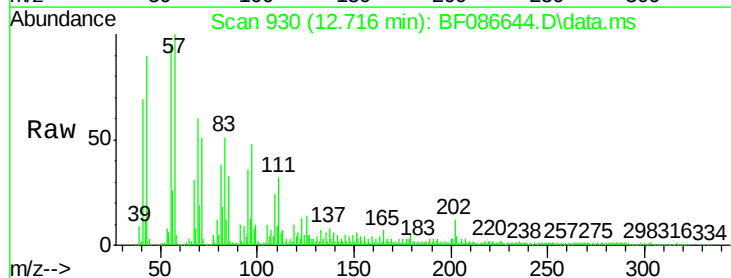
Tgt Ion:202 Resp: 48613

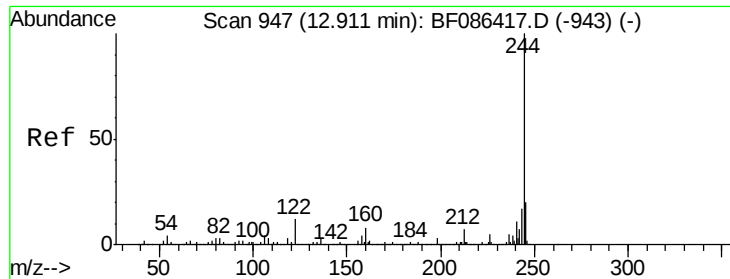
Ion Ratio Lower Upper

202 100

200 24.5 17.7 26.5

203 36.3 14.2 21.4#





#78

Terphenyl-d14

Concen: 11.00 ng

RT: 12.865 min Scan# 94

Delta R.T. -0.045 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

Instrument :

BNA_F

ClientSampleId :

B5(1)DL

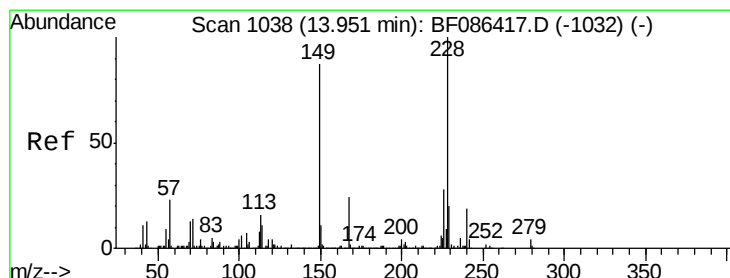
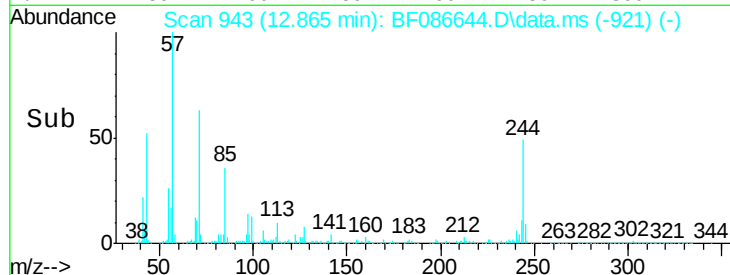
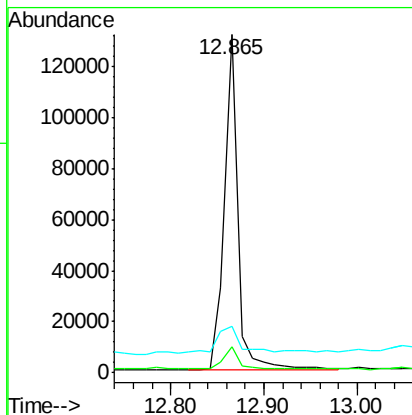
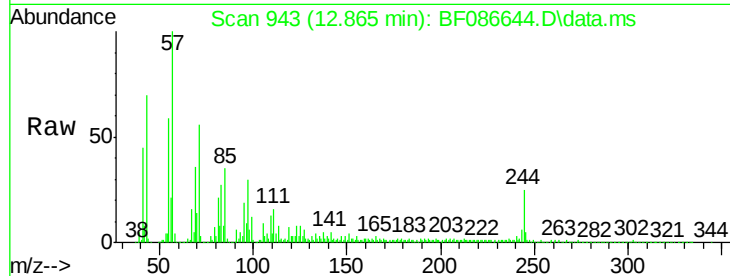
Tot Ion:244 Resp: 133116

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

122 13.8 12.0 18.0



#83

Bis(2-ethylhexyl)phthalate

Concen: 4.40 ng

RT: 13.917 min Scan# 1035

Delta R.T. -0.034 min

Lab File: BF086644.D

Acq: 3 May 2016 14:54

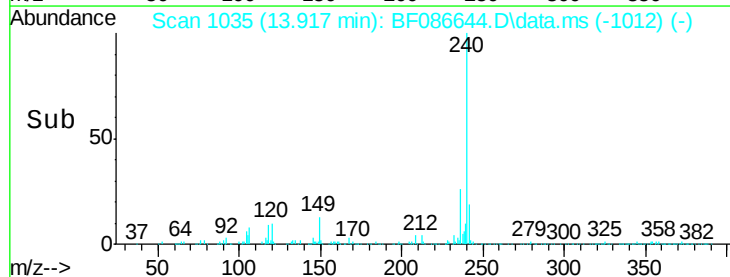
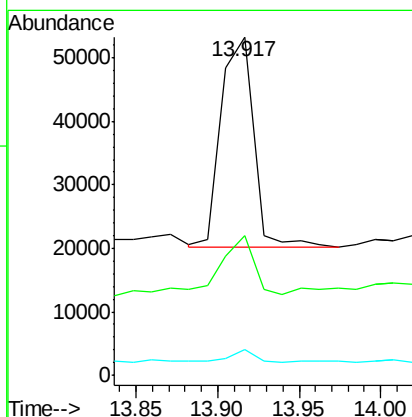
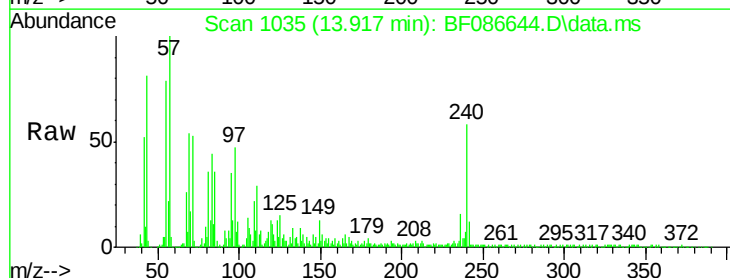
Tgt Ion:149 Resp: 45449

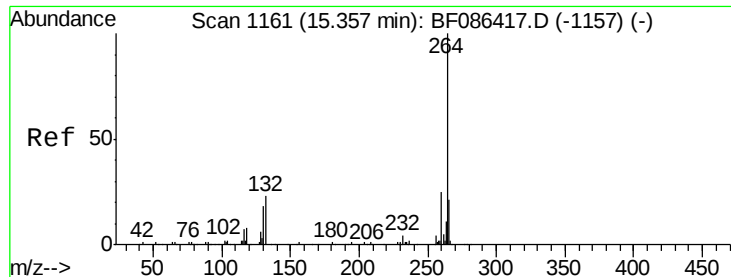
Ion Ratio Lower Upper

149 100

167 41.1 21.8 32.6#

279 7.5 2.6 4.0#





#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.322 min Scan# 11
Delta R.T. -0.034 min
Lab File: BF086644.D
Acq: 3 May 2016 14:54

Instrument :
BNA_F
ClientSampleId :
B5(1)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.5	29.3
265	22.5	17.3	25.9

