

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
 Data File : BF109075.D
 Acq On : 18 Sep 2018 4:27
 Operator : JU/SJ
 Sample : J4919-02
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF-03_COMP_FILL

Quant Time: Sep 18 06:05:34 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 14 13:26:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	141087	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	419500	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	198109	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	361896	20.00	ng	0.00
75) Chrysene-d12	13.85	240	347967	20.00	ng	0.00
86) Perylene-d12	15.25	264	259362	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	892266	105.04	ng	0.03
7) Phenol-d6	6.37	99	984025	89.84	ng	0.00
23) Nitrobenzene-d5	7.28	82	731158	97.76	ng	0.00
41) 2,4,6-Tribromophenol	10.54	330	248906	115.77	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	1156118	91.43	ng	0.00
78) Terphenyl-d14	12.81	244	1148350	78.22	ng	0.00

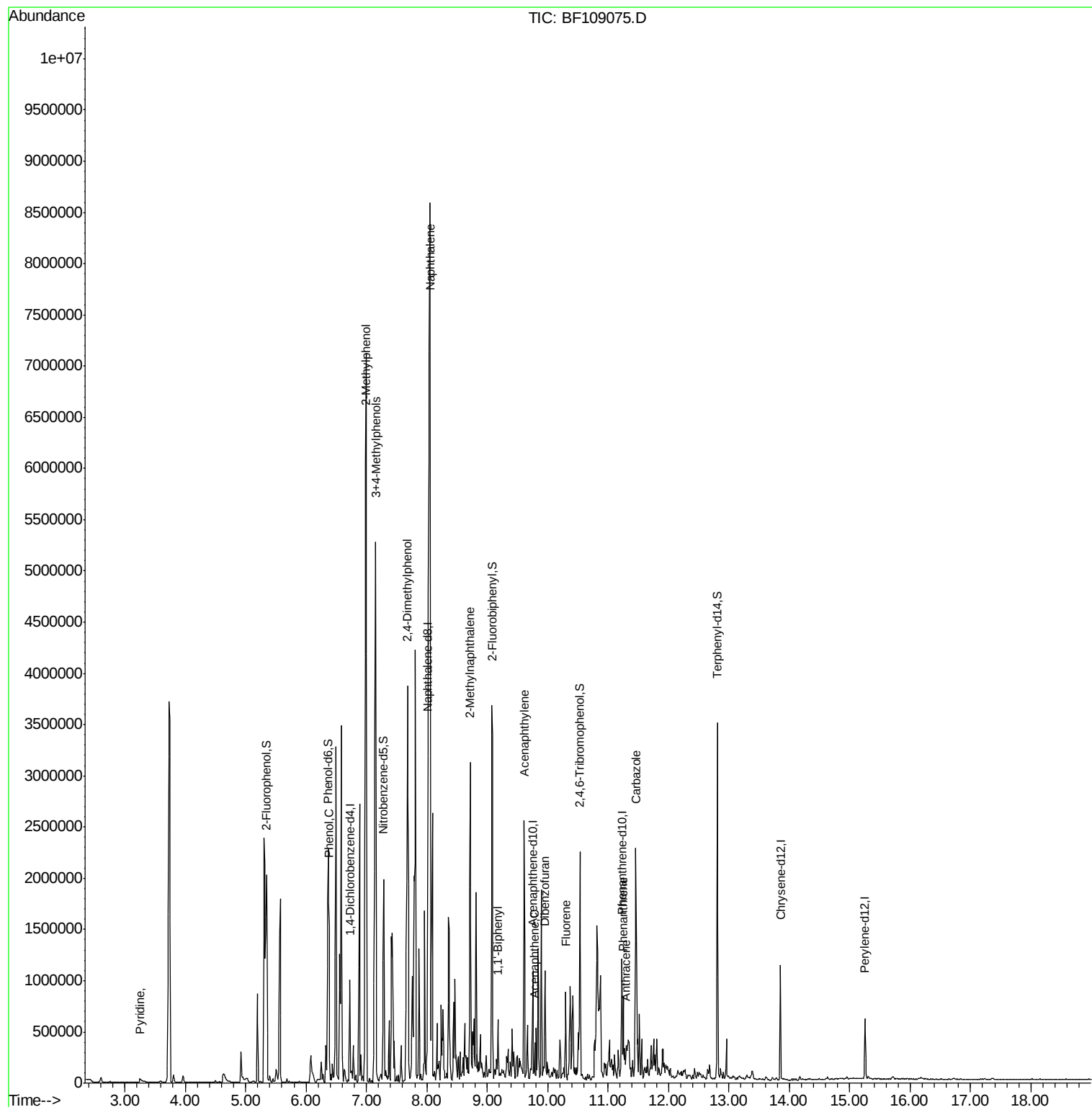
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Pyridine	3.25	79	37420	3.491	ng	91
10) Phenol	6.38	94	471988	38.296	ng	98
17) 2-Methylphenol	6.98	107	455557	58.738	ng	96
20) 3+4-Methylphenols	7.15	107	1838273	196.800	ng	87
27) 2,4-Dimethylphenol	7.68	122	1266428	224.219	ng	99
31) Naphthalene	8.05	128	8180251	420.134	ng	# 91
37) 2-Methylnaphthalene	8.72	142	745343	58.725	ng	98
45) 1,1'-Biphenyl	9.18	154	125163	7.897	ng	98
48) Acenaphthylene	9.61	152	946699	49.467	ng	99
51) Acenaphthene	9.78	154	56532	4.744	ng	99
54) Dibenzofuran	9.95	168	259987	15.097	ng	99
57) Fluorene	10.30	166	203432	17.727	ng	99
70) Phenanthrene	11.25	178	288244	16.248	ng	97
71) Anthracene	11.30	178	69643	3.873	ng	98
72) Carbazole	11.46	167	757374	42.545	ng	99

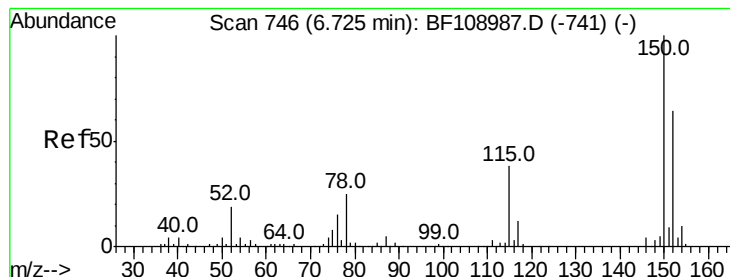
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 14 13:26:52 2018
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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.72 min Scan# 746

Delta R.T. -0.00 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA_F

ClientSampleId :

ROLLOFF-03_COMP_FILL

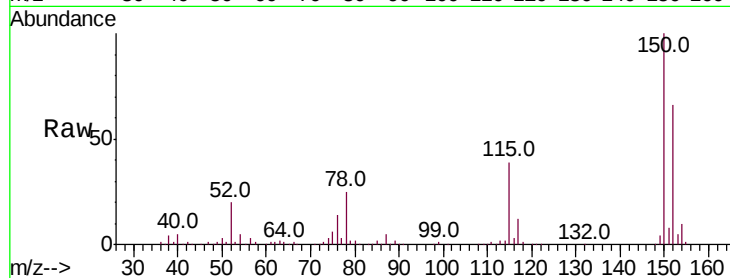
Tot Ion:152 Resp: 141087

Ion Ratio Lower Upper

152 100

150 151.9 124.6 186.8

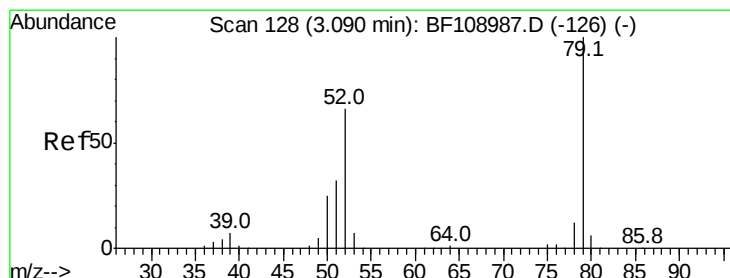
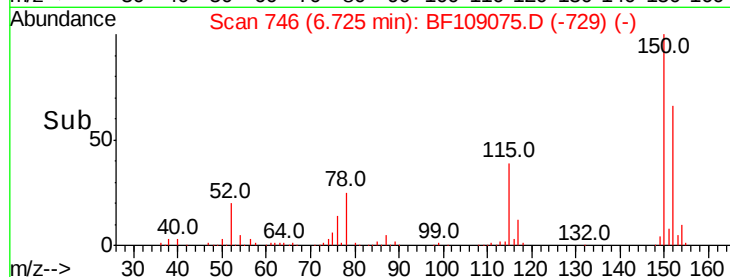
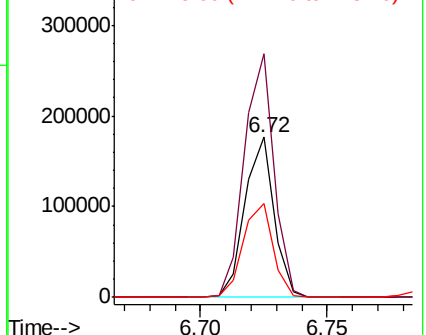
115 58.8 50.1 75.1



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



#3

Pyridine

Concen: 3.491 ng

RT: 3.25 min Scan# 155

Delta R.T. 0.16 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

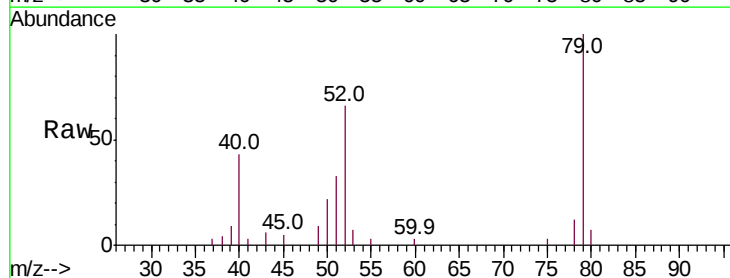
Tgt Ion: 79 Resp: 37420

Ion Ratio Lower Upper

79 100

52 66.4 59.8 89.6

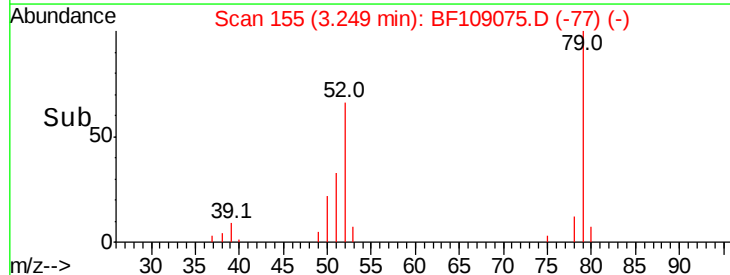
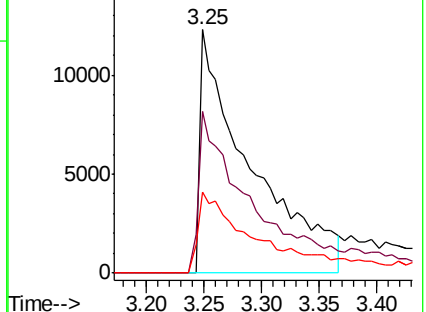
51 33.4 29.8 44.8

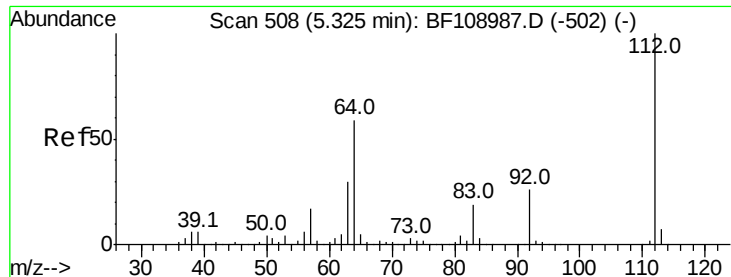


Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 52.00 (51.70 to 52.70): BF1

Ion 51.00 (50.70 to 51.70): BF1





#5

2-Fluorophenol

Concen: 105.038 ng

RT: 5.35 min Scan# 513

Delta R.T. 0.03 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA_F

ClientSampleId :

ROLLOFF-03_COMP_FILL

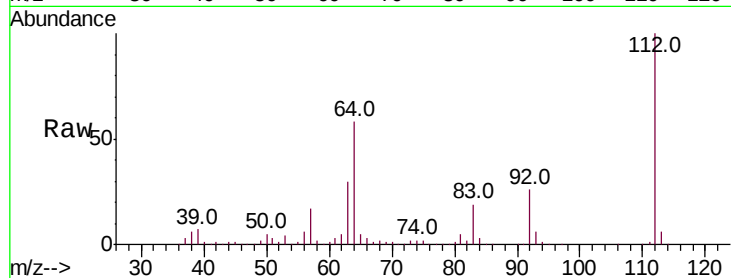
Tot Ion:112 Resp: 892266

Ion Ratio Lower Upper

112 100

64 57.6 47.9 71.9

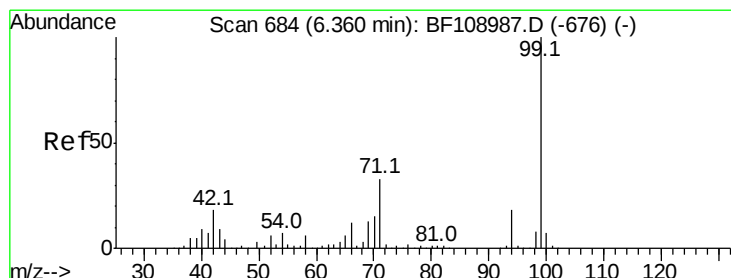
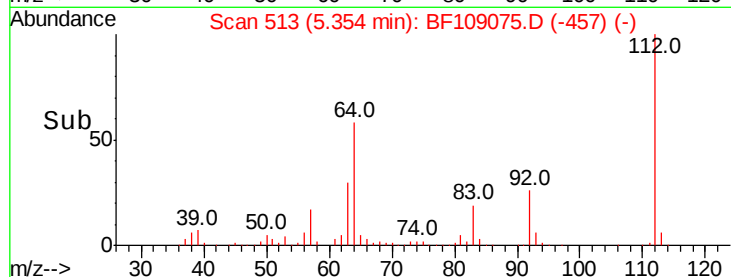
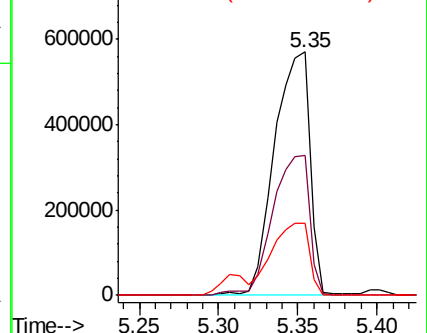
63 29.7 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): BF1

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#7

Phenol-d6

Concen: 89.837 ng

RT: 6.37 min Scan# 685

Delta R.T. 0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

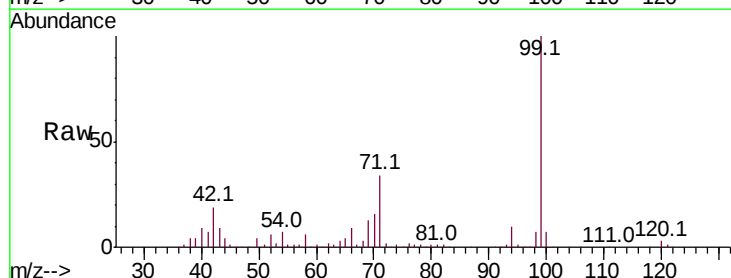
Tgt Ion: 99 Resp: 984025

Ion Ratio Lower Upper

99 100

42 19.1 14.5 21.7

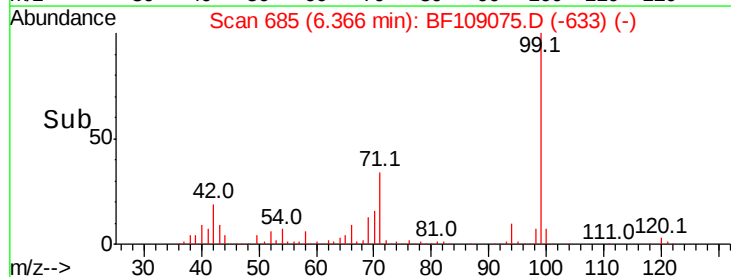
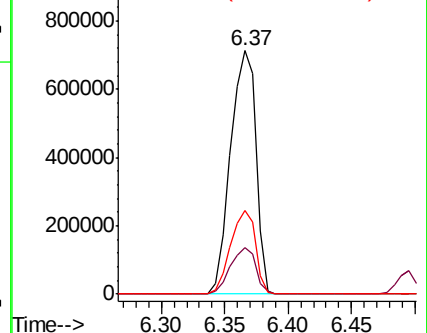
71 34.4 25.4 38.0

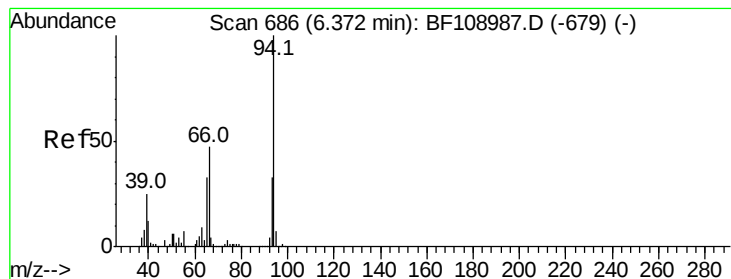


Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1





#10

Phenol

Concen: 38.296 ng

RT: 6.38 min Scan# 688

Delta R.T. 0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA_F

ClientSampleId :

ROLLOFF-03_COMP_FILL

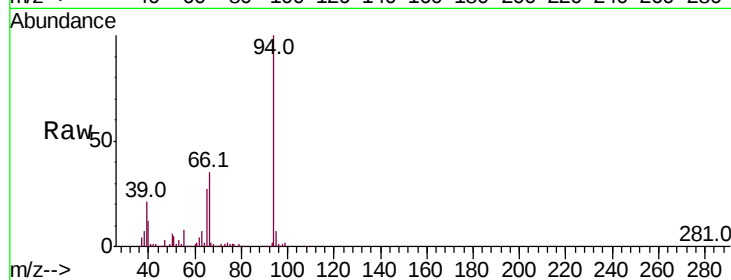
Tot Ion: 94 Resp: 471988

Ion Ratio Lower Upper

94 100

65 26.9 7.9 47.9

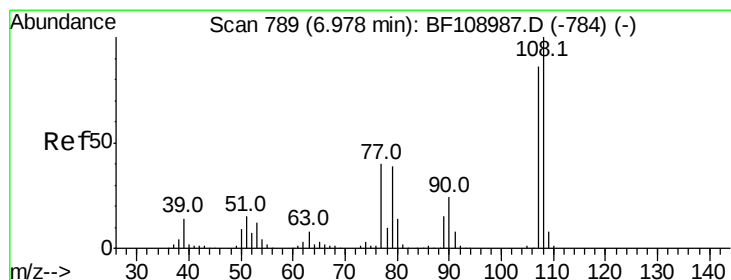
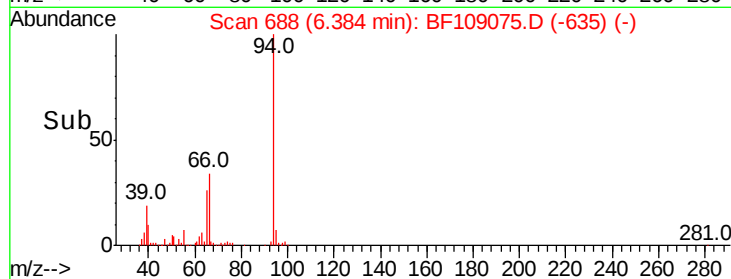
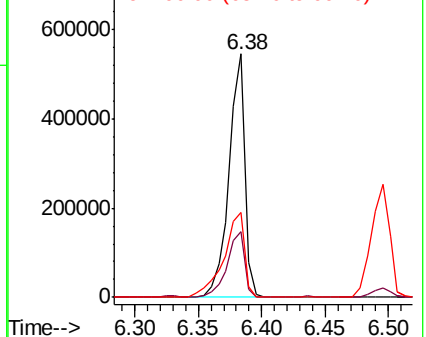
66 34.9 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1



#17

2-Methylphenol

Concen: 58.738 ng

RT: 6.98 min Scan# 790

Delta R.T. 0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Tgt Ion: 107 Resp: 455557

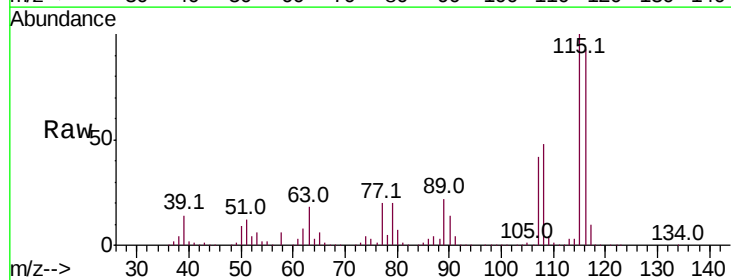
Ion Ratio Lower Upper

107 100

108 113.1 91.7 137.5

77 48.1 33.8 50.8

79 46.7 33.8 50.8

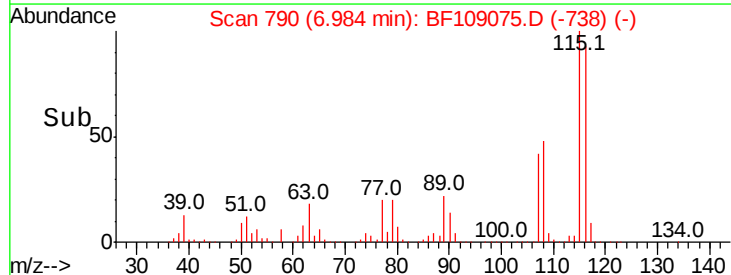
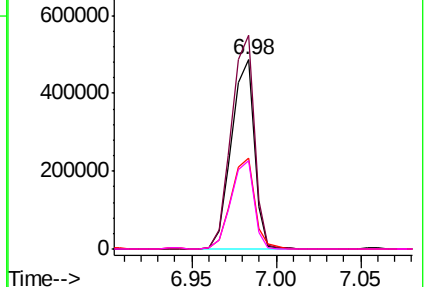


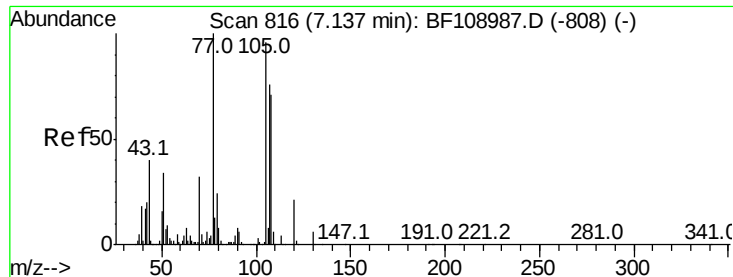
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1





#20

3+4-Methylphenols

Concen: 196.800 ng

RT: 7.15 min Scan# 819

Delta R.T. 0.02 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA_F

ClientSampleId :

ROLLOFF-03_COMP_FILL

Tot Ion:107 Resp: 1838273

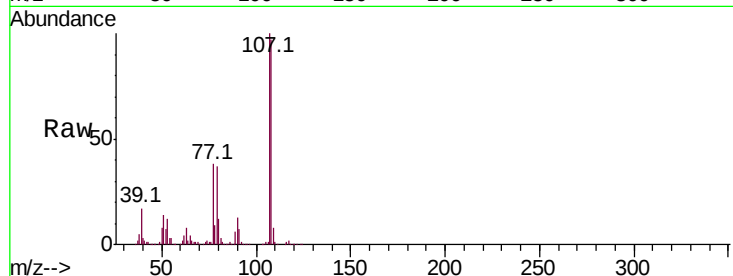
Ion Ratio Lower Upper

107 100

108 97.4 68.2 108.2

77 37.8 26.7 66.7

79 37.1 6.3 46.3

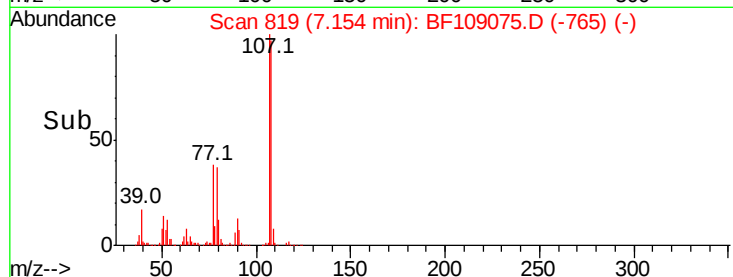


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



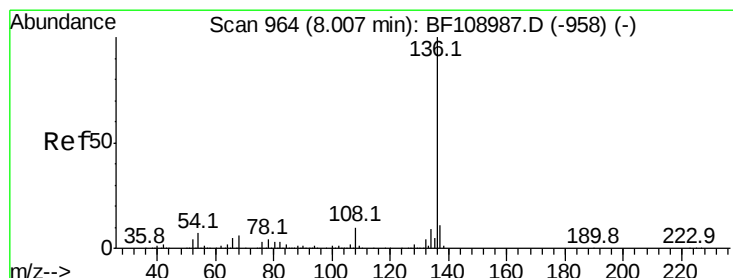
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1

Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 965

Delta R.T. 0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Tgt Ion:136 Resp: 419500

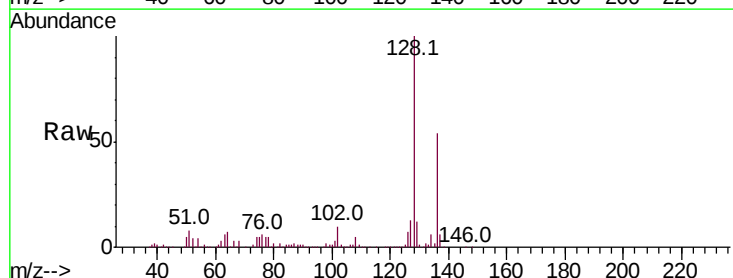
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.4 6.6 9.8

68 6.0 5.0 7.4

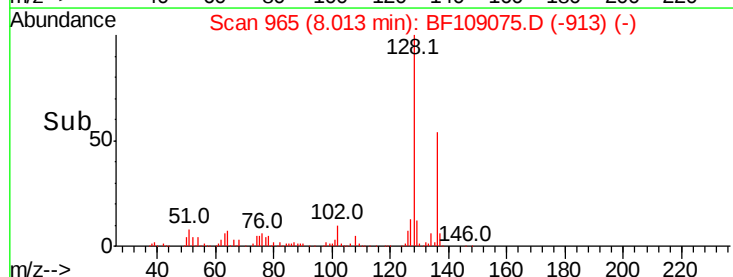


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



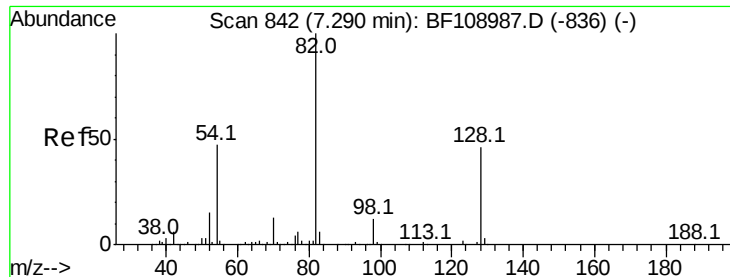
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

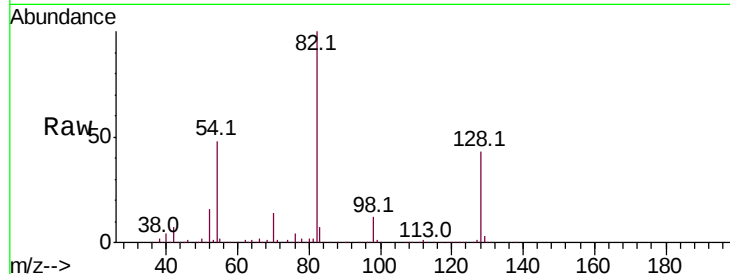
Time-->



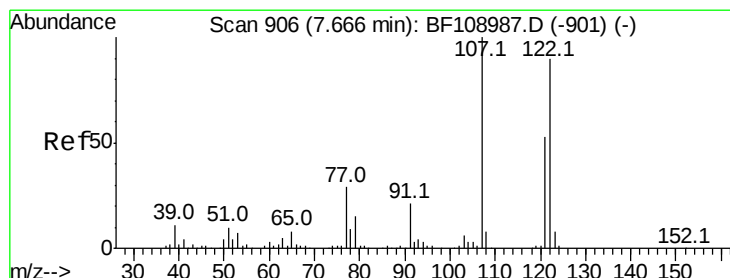
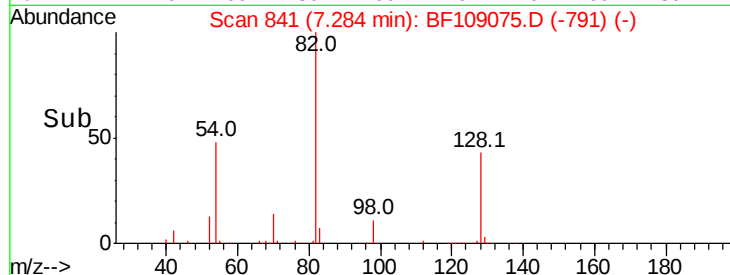
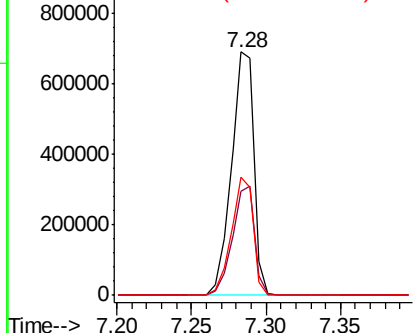
#23
 Nitrobenzene-d5
 Concen: 97.758 ng
 RT: 7.28 min Scan# 841
 Delta R.T. -0.01 min
 Lab File: BF109075.D
 Acq: 18 Sep 2018 4:27

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF-03_COMP_FILL

Tot Ion	82	Resp	731158
Ion Ratio	100	Lower	Upper
128	43.0	36.1	54.1
54	48.5	41.4	62.2

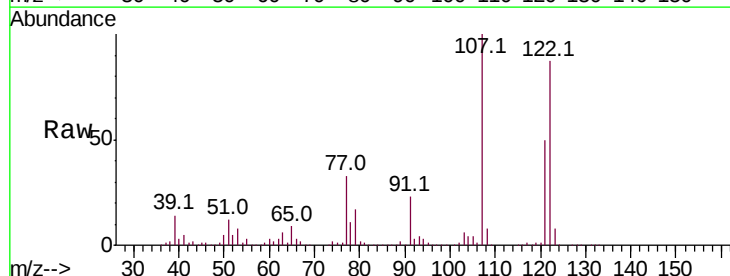


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

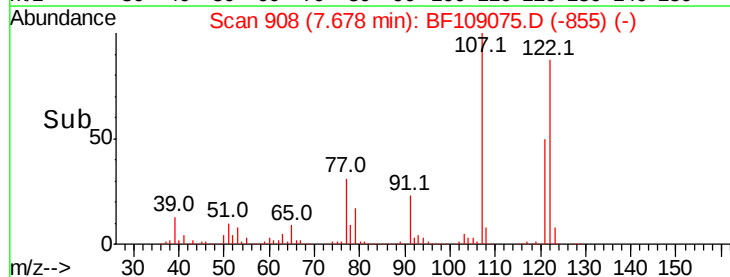
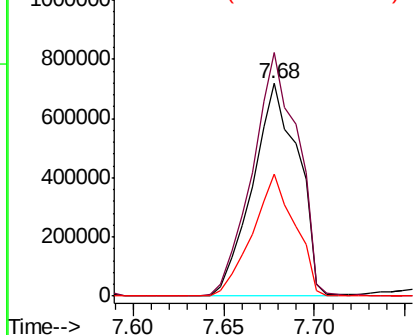


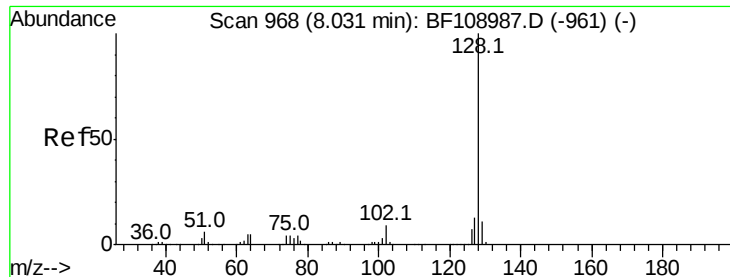
#27
 2,4-Dimethylphenol
 Concen: 224.219 ng
 RT: 7.68 min Scan# 908
 Delta R.T. 0.01 min
 Lab File: BF109075.D
 Acq: 18 Sep 2018 4:27

Tgt Ion	122	Resp	1266428
Ion Ratio	100	Lower	Upper
107	114.7	91.2	136.8
121	57.4	47.2	70.8



Abundance Ion 122.00 (121.70 to 122.70): BF1
 Ion 107.00 (106.70 to 107.70): BF1
 Ion 121.00 (120.70 to 121.70): BF1

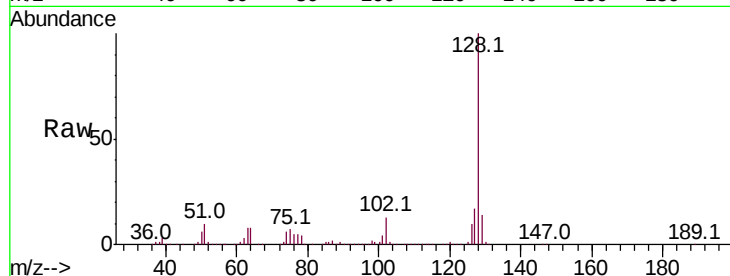




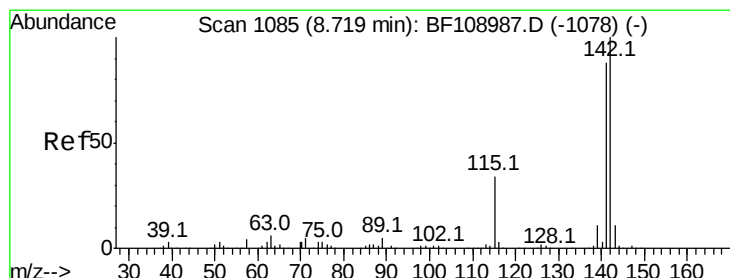
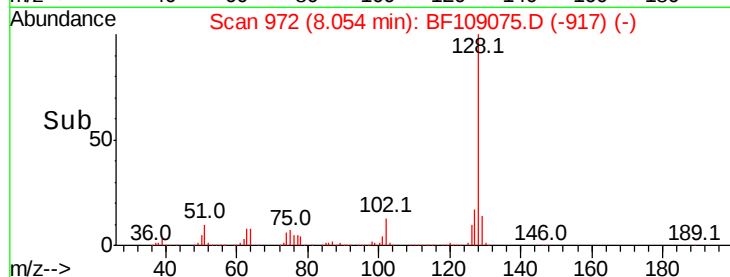
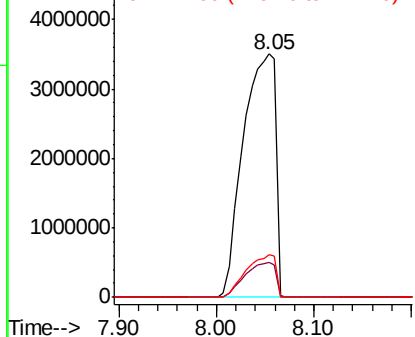
#31
Naphthalene
Concen: 420.134 ng
RT: 8.05 min Scan# 972
Delta R.T. 0.02 min
Lab File: BF109075.D
Acq: 18 Sep 2018 4:27

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-03_COMP_FILL

Tot Ion:128 Resp: 8180251
Ion Ratio Lower Upper
128 100
129 14.3 8.8 13.2#
127 17.3 10.9 16.3#

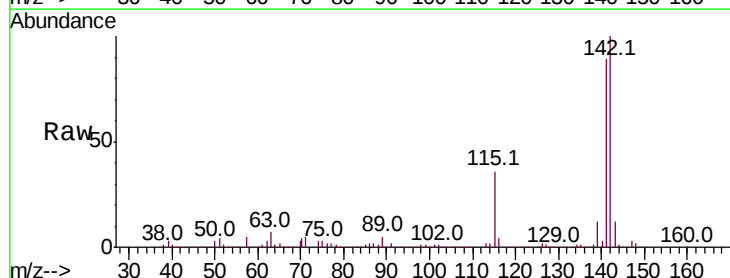


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

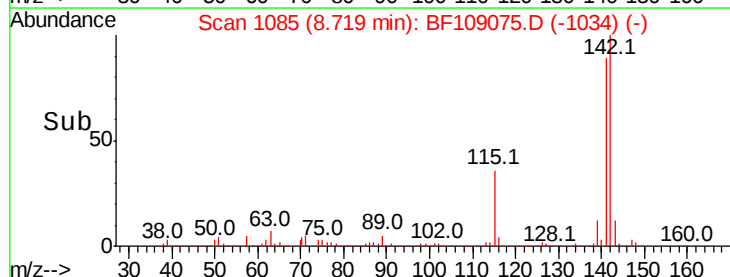
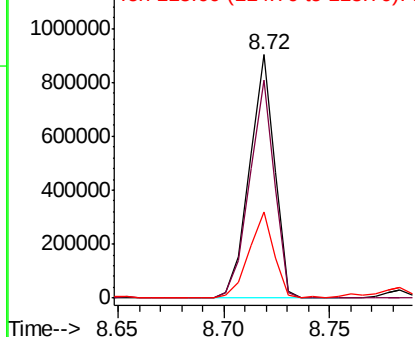


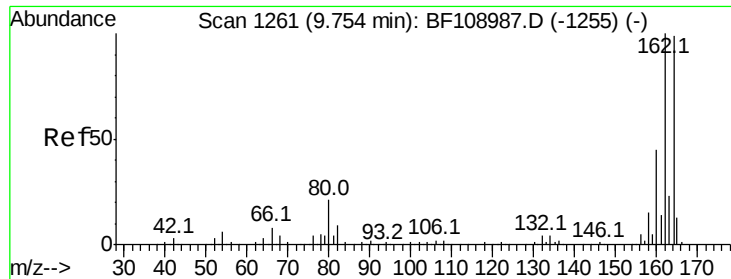
#37
2-Methylnaphthalene
Concen: 58.725 ng
RT: 8.72 min Scan# 1085
Delta R.T. -0.00 min
Lab File: BF109075.D
Acq: 18 Sep 2018 4:27

Tgt Ion:142 Resp: 745343
Ion Ratio Lower Upper
142 100
141 89.3 70.8 106.2
115 35.6 26.1 39.1



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

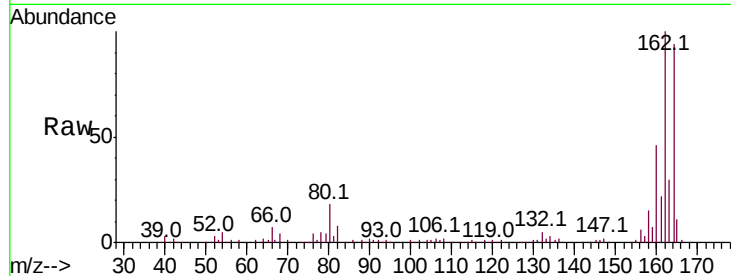




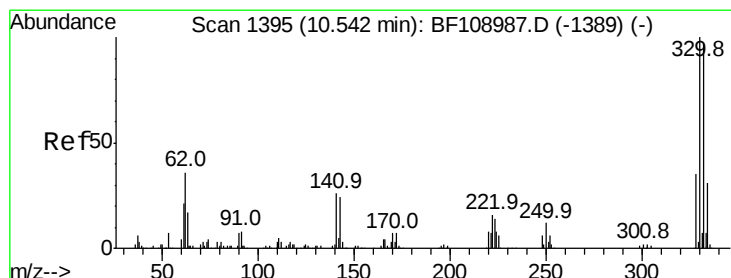
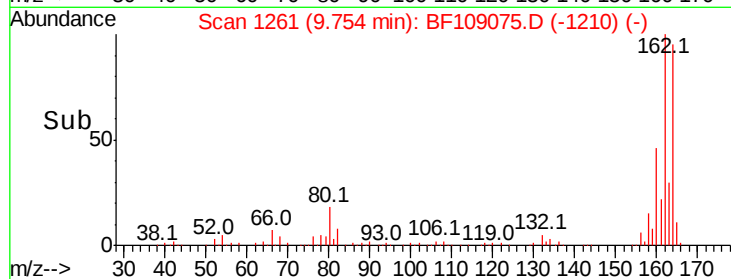
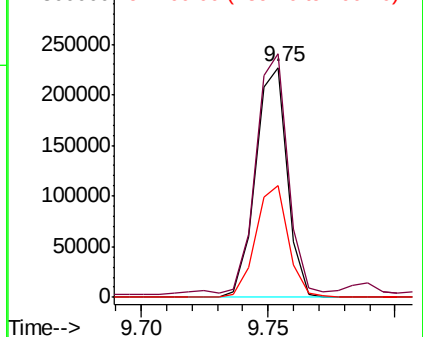
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1261
Delta R.T. -0.00 min
Lab File: BF109075.D
Acq: 18 Sep 2018 4:27

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-03_COMP_FILL

Tot Ion:164 Resp: 198109
Ion Ratio Lower Upper
164 100
162 106.0 86.1 129.1
160 48.4 38.3 57.5

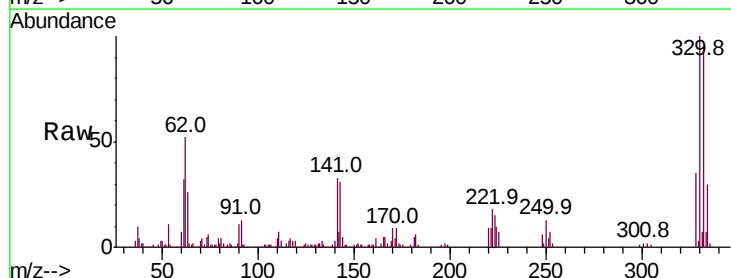


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

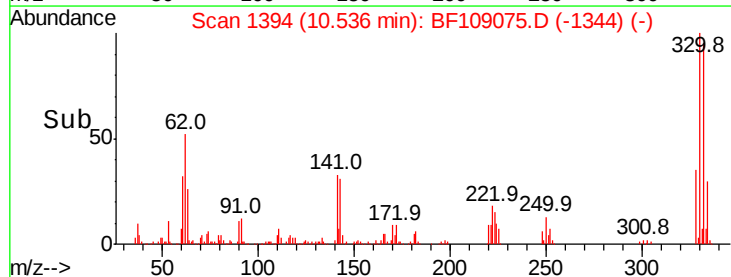
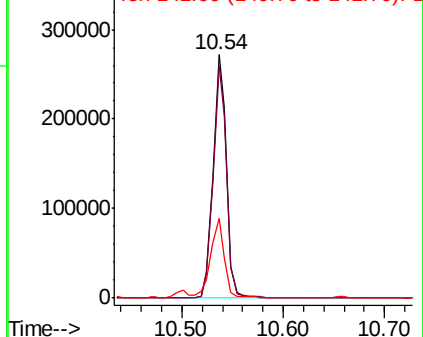


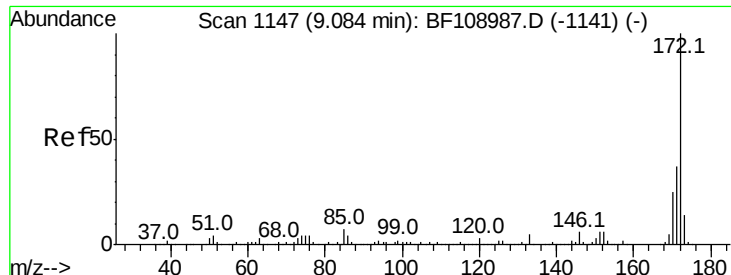
#41
2,4,6-Tribromophenol
Concen: 115.770 ng
RT: 10.54 min Scan# 1394
Delta R.T. -0.01 min
Lab File: BF109075.D
Acq: 18 Sep 2018 4:27

Tgt Ion:330 Resp: 248906
Ion Ratio Lower Upper
330 100
332 95.4 77.0 115.6
141 33.4 29.9 44.9



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



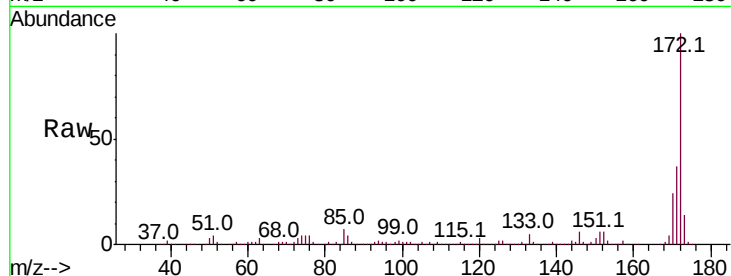


#44
 2-Fluorobiphenyl
 Concen: 91.431 ng
 RT: 9.08 min Scan# 1146
 Delta R.T. -0.01 min
 Lab File: BF109075.D
 Acq: 18 Sep 2018 4:27

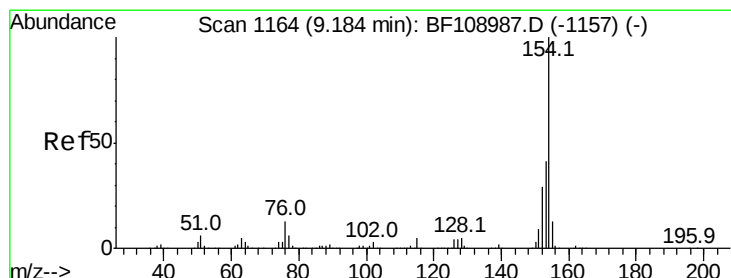
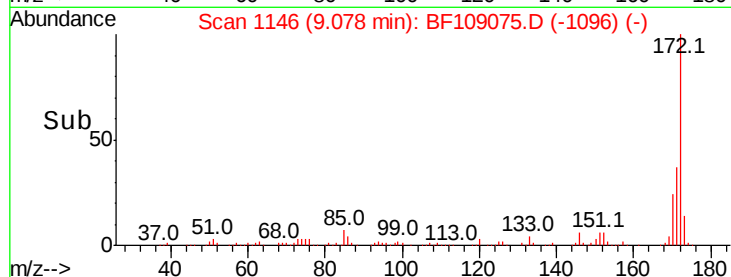
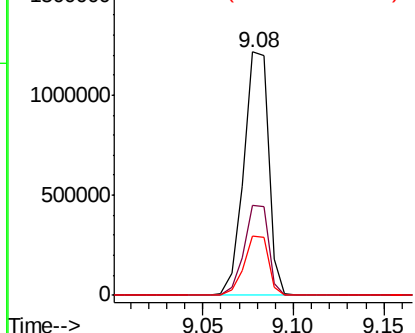
Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF-03_COMP_FILL

Tot Ion:172 Resp: 1156118

Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.7	44.5
170	24.4	19.6	29.4



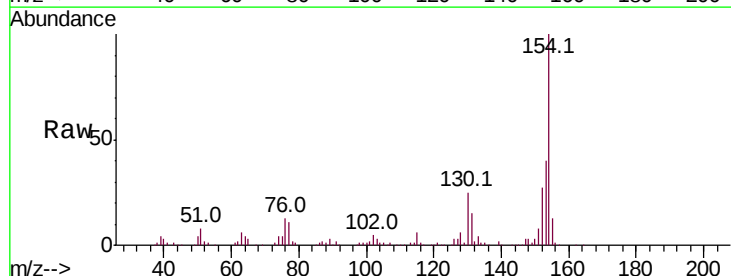
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



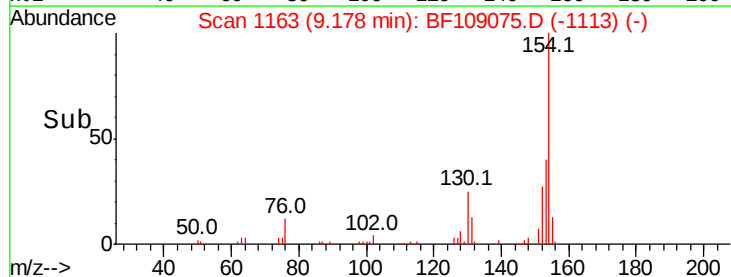
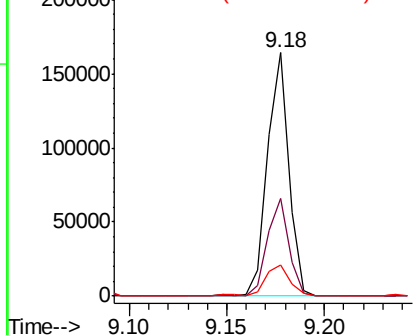
#45
 1,1'-Biphenyl
 Concen: 7.897 ng
 RT: 9.18 min Scan# 1163
 Delta R.T. -0.01 min
 Lab File: BF109075.D
 Acq: 18 Sep 2018 4:27

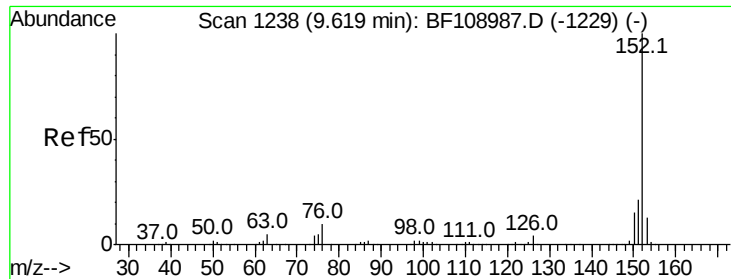
Tgt Ion:154 Resp: 125163

Ion	Ratio	Lower	Upper
154	100		
153	40.3	21.3	61.3
76	13.0	0.0	34.0



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): BF1





#48

Acenaphthylene

Concen: 49.467 ng

RT: 9.61 min Scan# 1237

Delta R.T. -0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA_F

ClientSampleId :

ROLLOFF-03_COMP_FILL

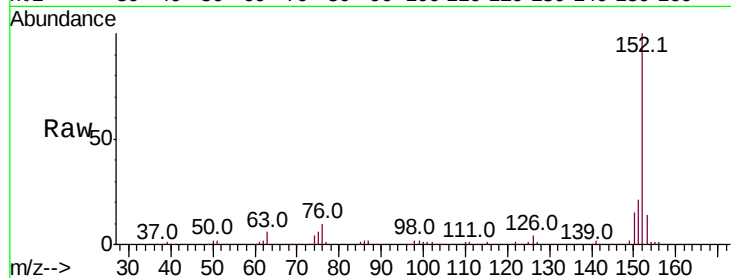
Tot Ion:152 Resp: 946699

Ion Ratio Lower Upper

152 100

151 20.7 16.3 24.5

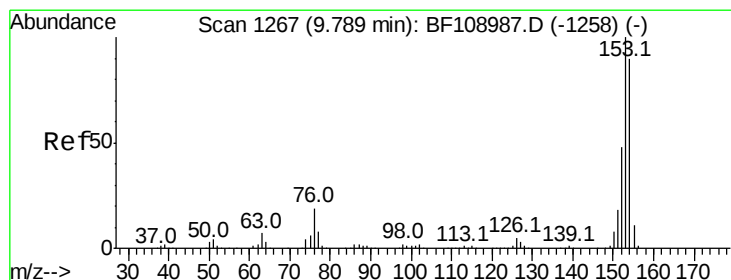
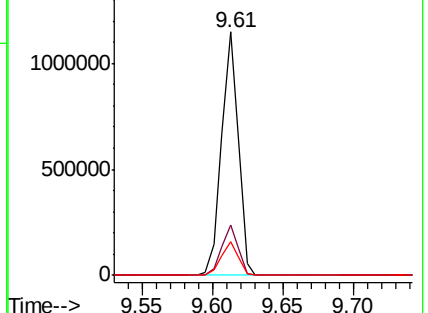
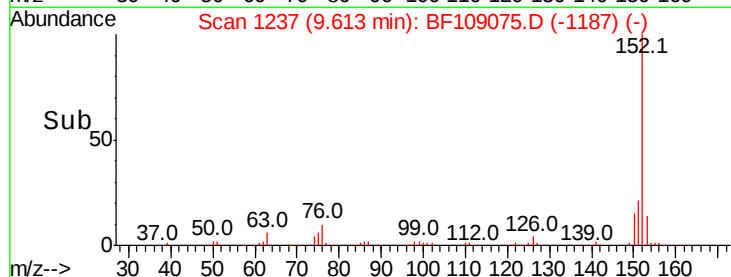
153 13.9 10.7 16.1



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



#51

Acenaphthene

Concen: 4.744 ng

RT: 9.78 min Scan# 1266

Delta R.T. -0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

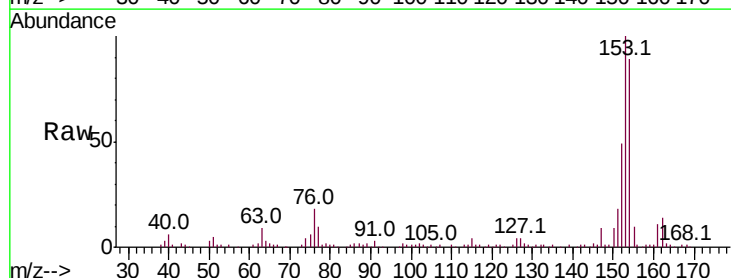
Tgt Ion:154 Resp: 56532

Ion Ratio Lower Upper

154 100

153 111.8 91.2 136.8

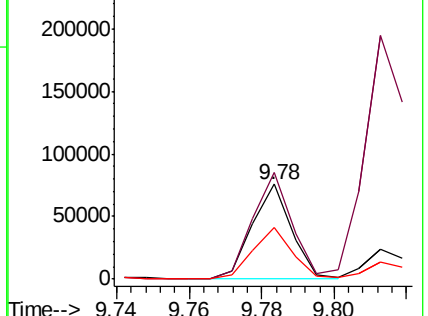
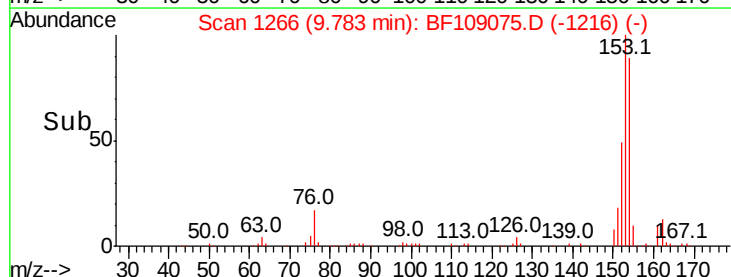
152 55.0 43.8 65.8

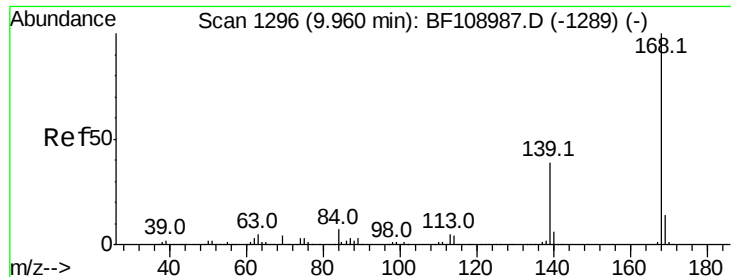


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

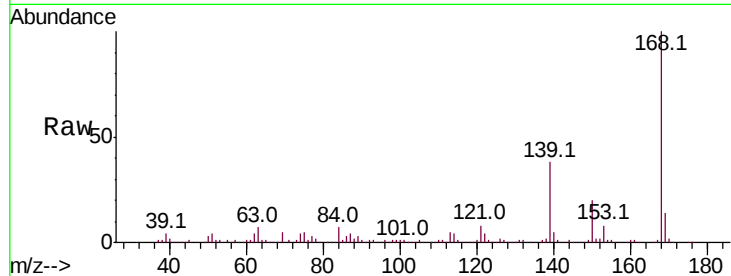




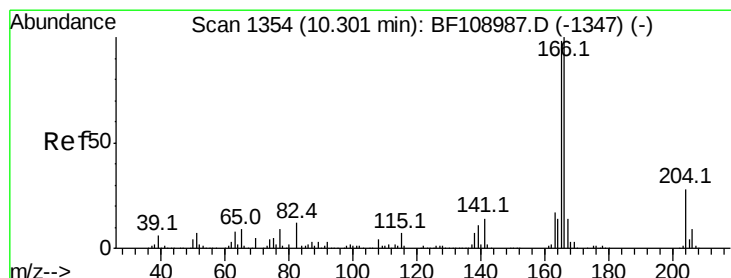
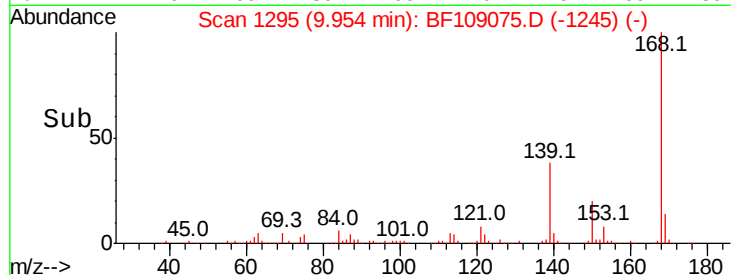
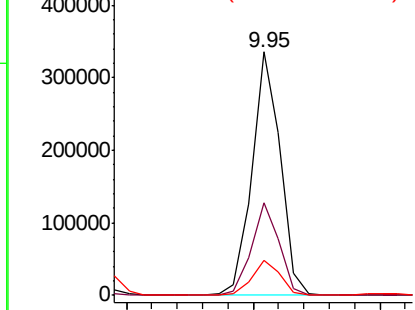
#54
Dibenzofuran
Concen: 15.097 ng
RT: 9.95 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BF109075.D
Acq: 18 Sep 2018 4:27

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-03_COMP_FILL

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.8	30.1	45.1
169	14.3	10.9	16.3

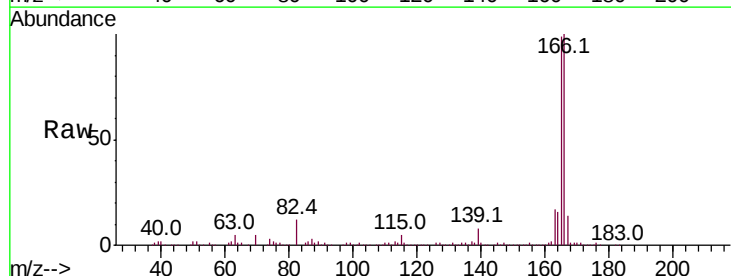


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

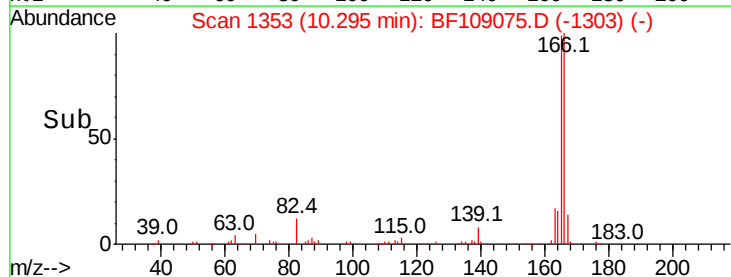
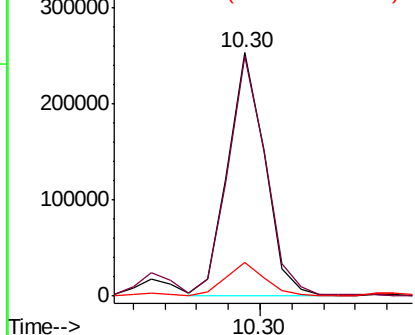


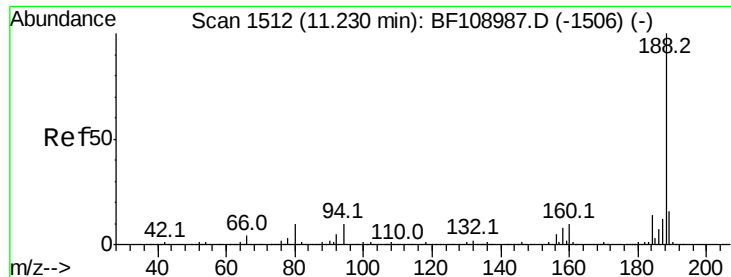
#57
Fluorene
Concen: 17.727 ng
RT: 10.30 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF109075.D
Acq: 18 Sep 2018 4:27

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.8	119.8
167	14.0	10.6	16.0



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

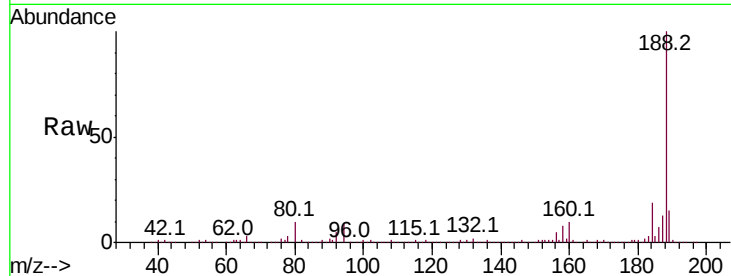




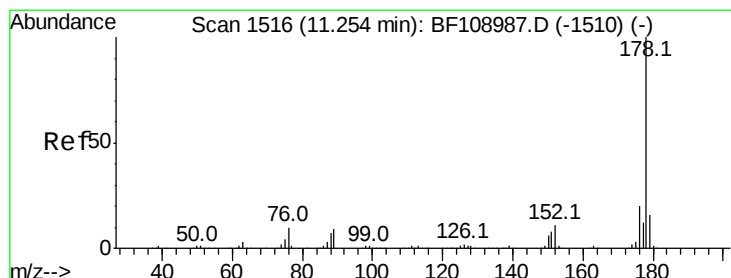
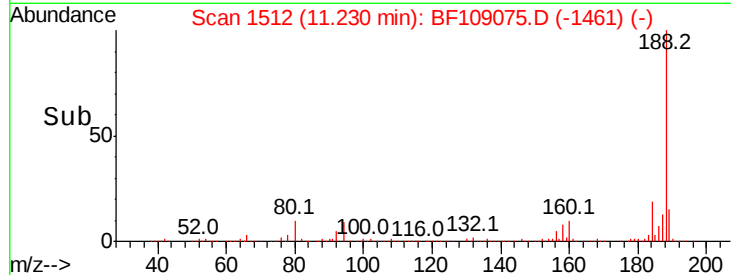
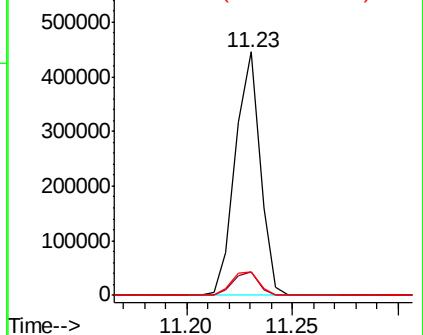
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1512
Delta R.T. -0.00 min
Lab File: BF109075.D
Acq: 18 Sep 2018 4:27

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-03_COMP_FILL

Tot Ion	Ratio	Lower	Upper
188	100		
94	9.4	8.5	12.7
80	9.7	9.2	13.8

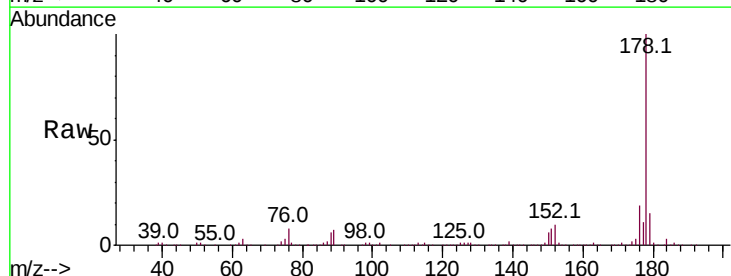


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

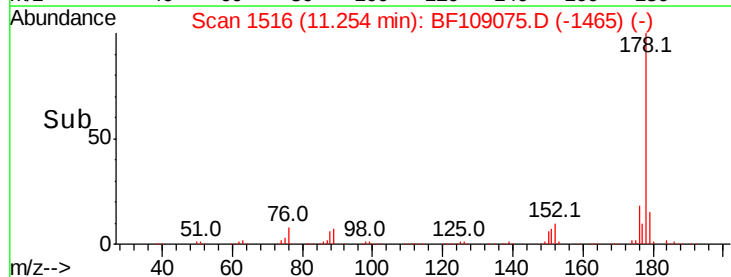
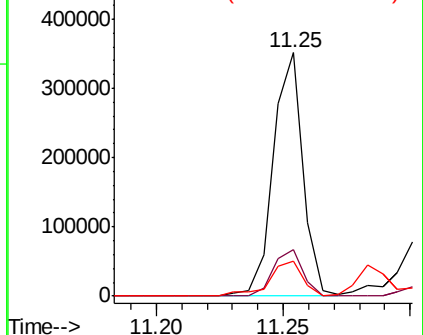


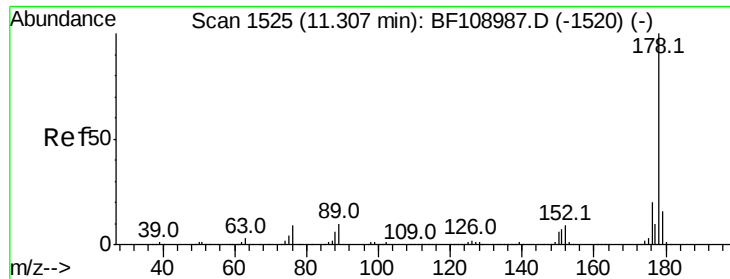
#70
Phenanthrene
Concen: 16.248 ng
RT: 11.25 min Scan# 1516
Delta R.T. -0.00 min
Lab File: BF109075.D
Acq: 18 Sep 2018 4:27

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.8
179	14.6	13.0	19.6



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

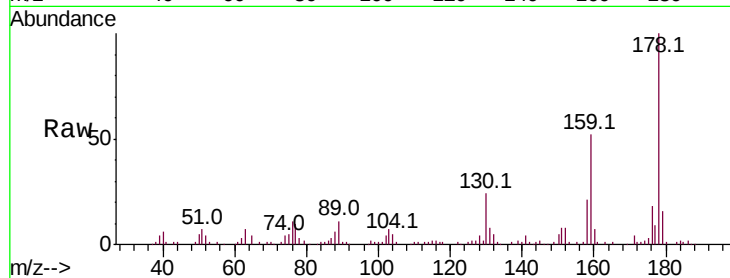




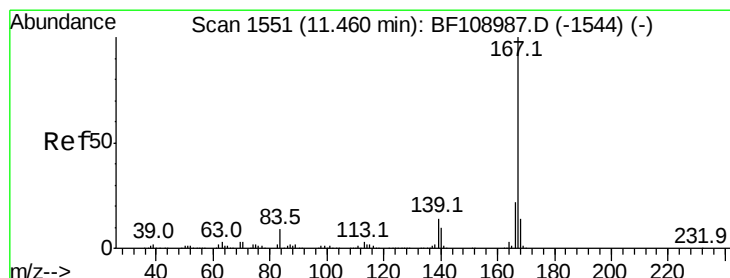
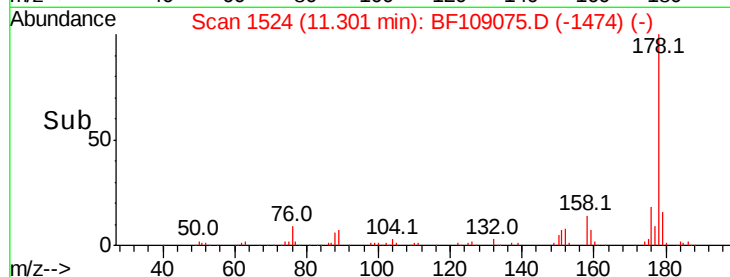
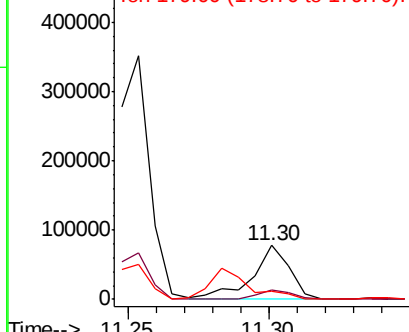
#71
 Anthracene
 Concen: 3.873 ng
 RT: 11.30 min Scan# 1524
 Delta R.T. -0.01 min
 Lab File: BF109075.D
 Acq: 18 Sep 2018 4:27

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF-03_COMP_FILL

Tot Ion:178 Resp: 69643
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.4 23.2
 179 16.1 12.6 19.0

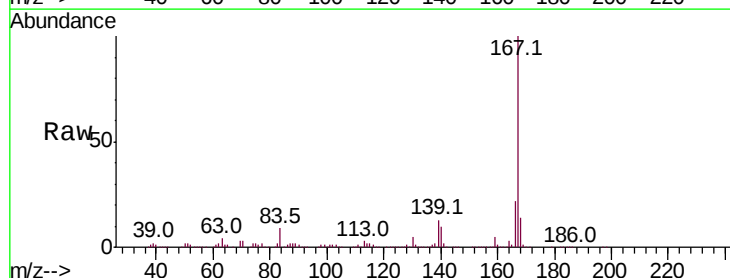


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

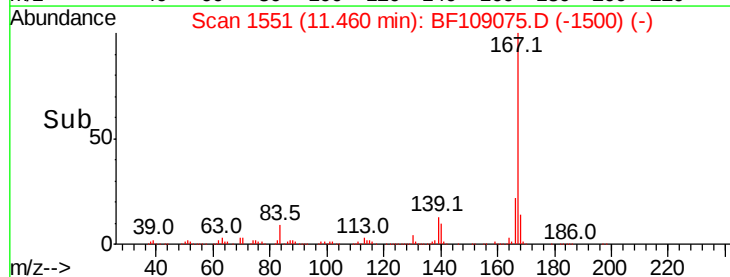
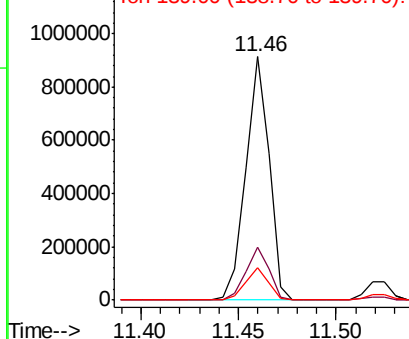


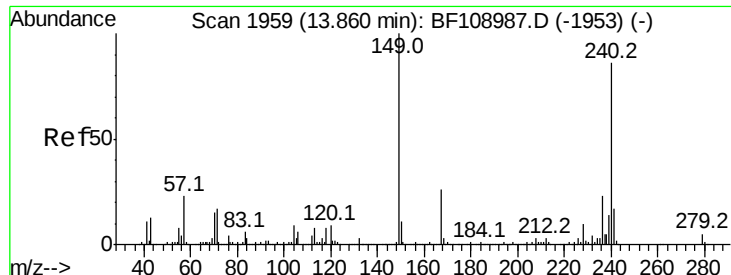
#72
 Carbazole
 Concen: 42.545 ng
 RT: 11.46 min Scan# 1551
 Delta R.T. -0.00 min
 Lab File: BF109075.D
 Acq: 18 Sep 2018 4:27

Tgt Ion:167 Resp: 757374
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.6 26.4
 139 13.2 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.85 min Scan# 1958

Delta R.T. -0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA_F

ClientSampleId :

ROLLOFF-03_COMP_FILL

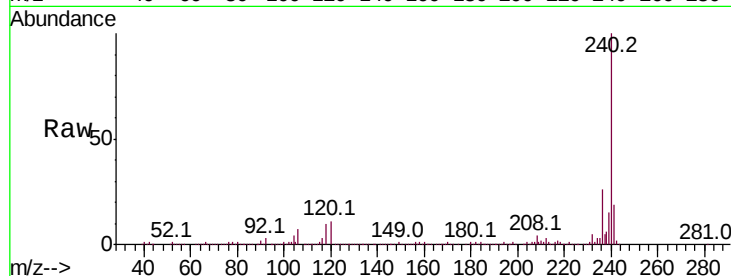
Tot Ion:240 Resp: 347967

Ion Ratio Lower Upper

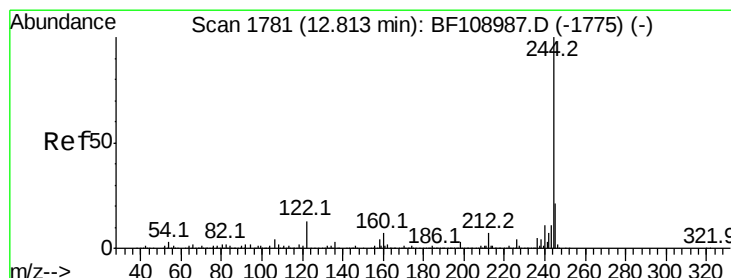
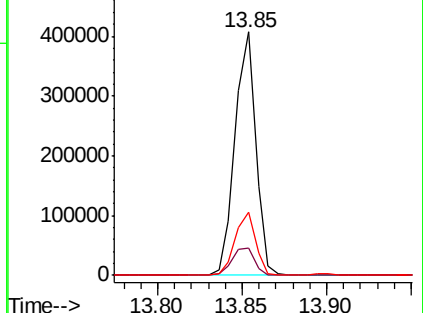
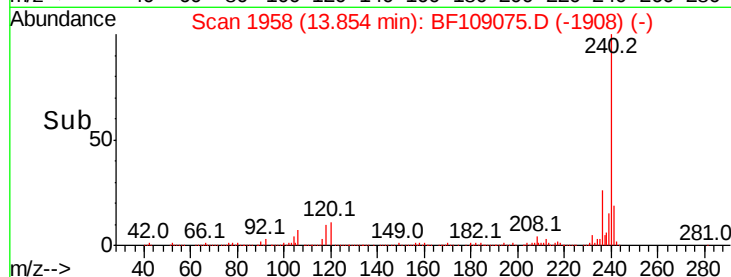
240 100

120 11.1 9.5 14.3

236 25.9 20.7 31.1



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



#78

Terphenyl-d14

Concen: 78.223 ng

RT: 12.81 min Scan# 1781

Delta R.T. -0.00 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

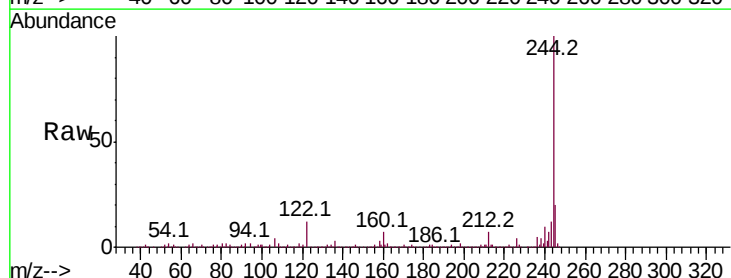
Tgt Ion:244 Resp: 1148350

Ion Ratio Lower Upper

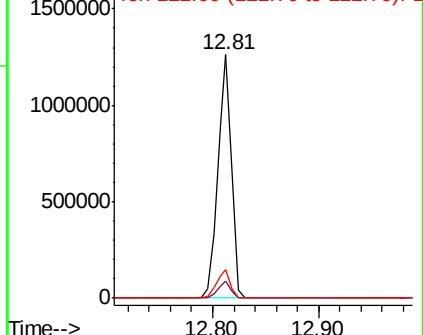
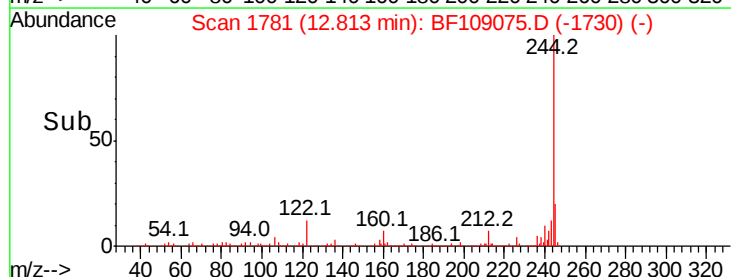
244 100

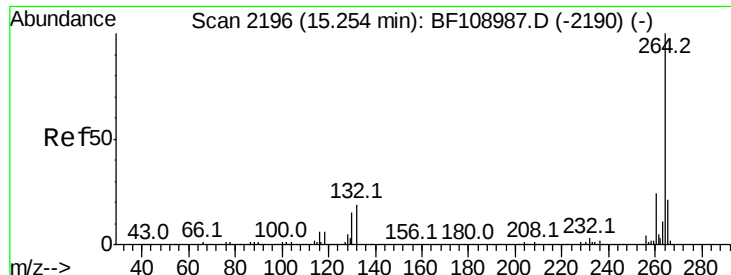
212 7.0 5.4 8.0

122 11.6 11.0 16.4



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.25 min Scan# 2196
Delta R.T. -0.00 min
Lab File: BF109075.D
Acq: 18 Sep 2018 4:27

Instrument :
BNA_F
ClientSampleId :
ROLLOFF-03_COMP_FILL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.7	17.5	26.3

