

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020620\
 Data File : BF118832.D
 Acq On : 6 Feb 2020 10:46
 Operator : CG/JU
 Sample : L1388-01DL 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 06 17:14:00 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	222473	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	880367	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	504046	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	1013952	20.00	ng	0.00
76) Chrysene-d12	13.97	240	914307	20.00	ng	-0.01
87) Perylene-d12	15.41	264	881051	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	219817	18.70	ng	-0.01
7) Phenol-d6	6.44	99	174086	11.93	ng	-0.01
23) Nitrobenzene-d5	7.37	82	248628	16.83	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	161012	26.70	ng	-0.01
45) 2-Fluorobiphenyl	9.17	172	576573	20.45	ng	-0.01
79) Terphenyl-d14	12.91	244	955825	21.47	ng	-0.02

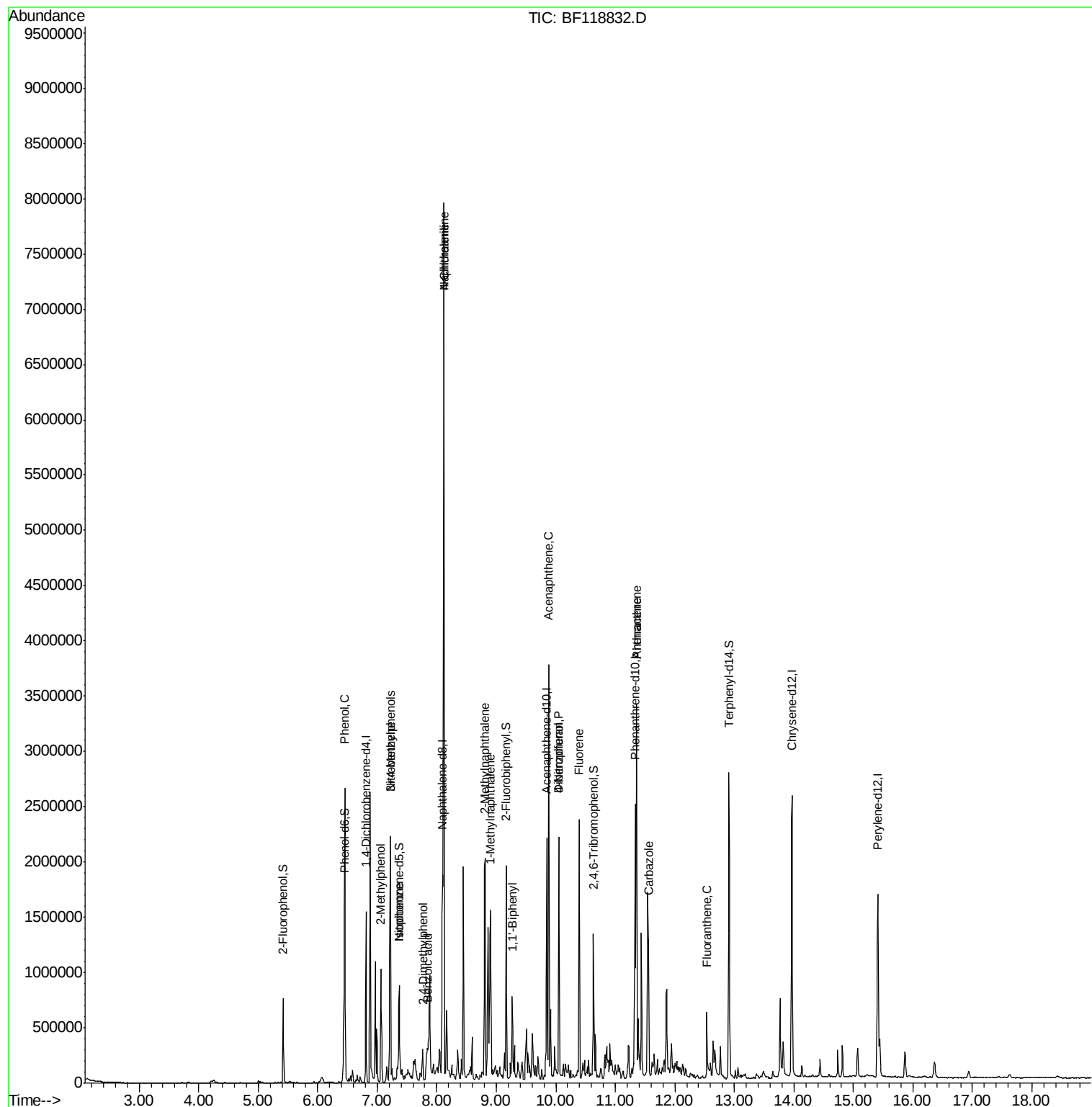
Target Compounds				Qvalue		
9) Benzaldehyde	6.36	77	3284	Below Cal	#	87
10) Phenol	6.46	94	955554	58.904	ng	93
17) 2-Methylphenol	7.06	107	157261	14.450	ng	98
20) 3+4-Methylphenols	7.22	107	555567	40.725	ng	# 63
24) Nitrobenzene	7.22	77	205745	13.944	ng	# 43
25) Isophorone	7.37	82	245144	9.235	ng	# 63
27) 2,4-Dimethylphenol	7.76	122	49821	4.665	ng	# 93
31) Naphthalene	8.12	128	3707180	92.071	ng	97
32) Benzoic acid	7.83	122	27714	3.134	ng	96
33) 4-Chloroaniline	8.12	127	541340	30.051	ng	# 37
37) 2-Methylnaphthalene	8.81	142	583613	20.899	ng	98
38) 1-Methylnaphthalene	8.90	142	348825	13.279	ng	100
46) 1,1'-Biphenyl	9.27	154	208933	5.992	ng	97
52) Acenaphthene	9.88	154	822864	29.837	ng	99
55) Dibenzofuran	10.05	168	752586	18.883	ng	97
56) 4-Nitrophenol	10.05	139	272359	43.210	ng	# 11
58) Fluorene	10.39	166	666272	22.221	ng	99
71) Phenanthrene	11.36	178	1240608	24.868	ng	98
72) Anthracene	11.36	178	1240608	24.997	ng	98
73) Carbazole	11.56	167	437385	10.042	ng	97
75) Fluoranthene	12.54	202	219337	4.027	ng	99

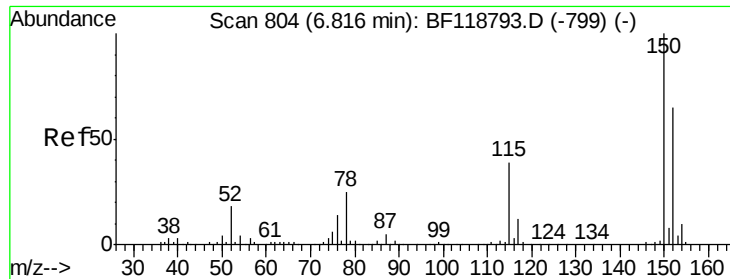
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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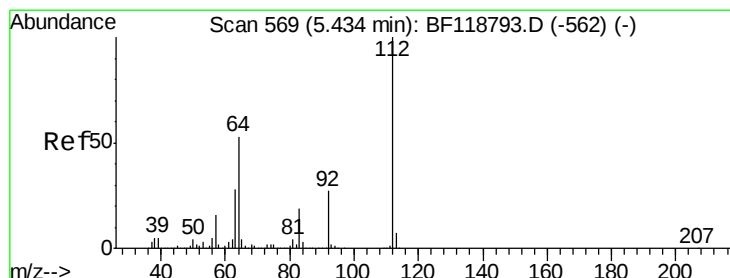
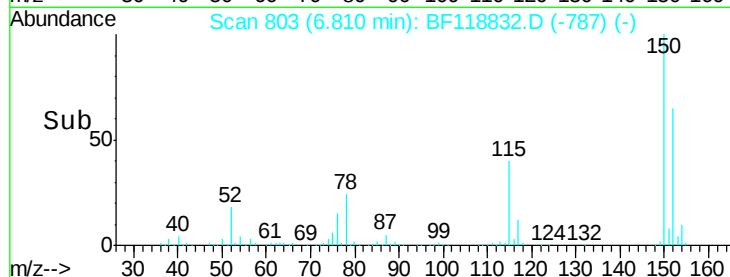
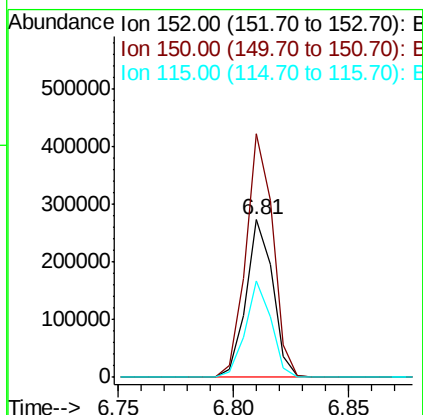
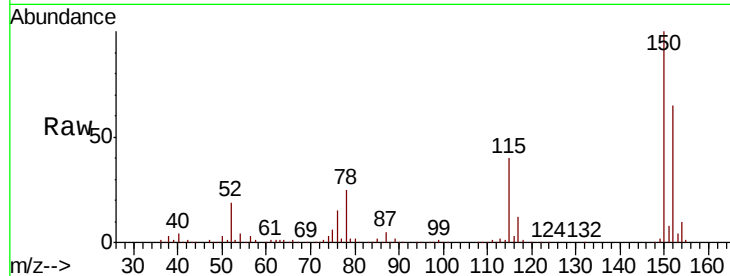


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Instrument :
BNA_F
ClientSampled :

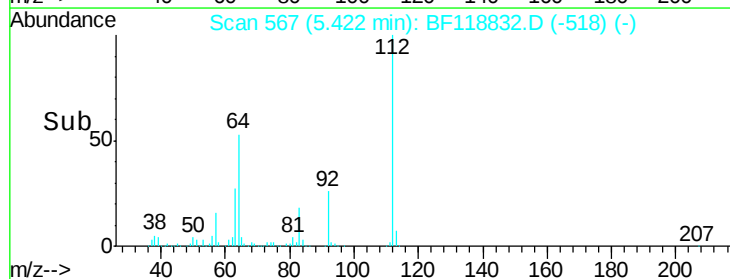
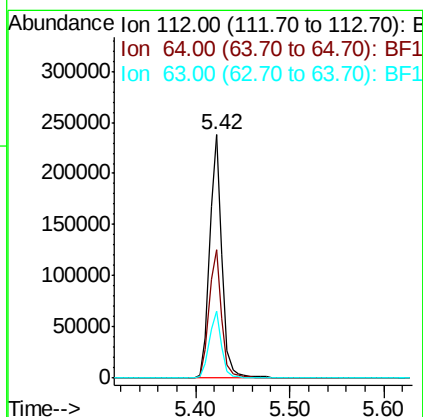
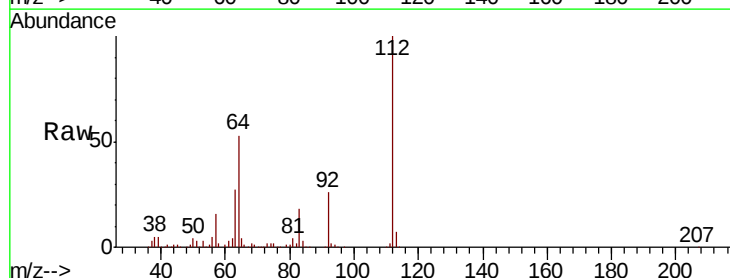
Tot Ion:152 Resp: 222473
Ion Ratio Lower Upper
152 100
150 154.6 123.6 185.4
115 61.3 48.2 72.2

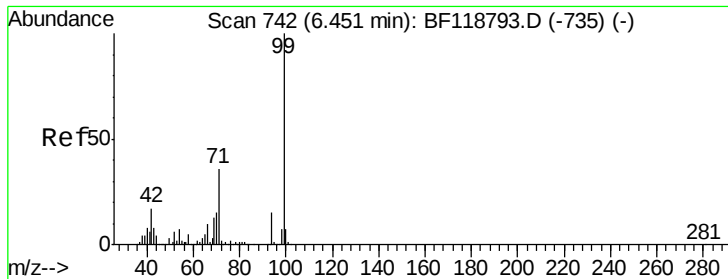


#5

2-Fluorophenol
Concen: 18.703 ng
RT: 5.42 min Scan# 567
Delta R.T. -0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Tgt Ion:112 Resp: 219817
Ion Ratio Lower Upper
112 100
64 52.7 42.6 63.8
63 27.3 22.2 33.4





#7

Phenol-d6

Concen: 11.932 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

Instrument :

BNA_F

ClientSampleId :

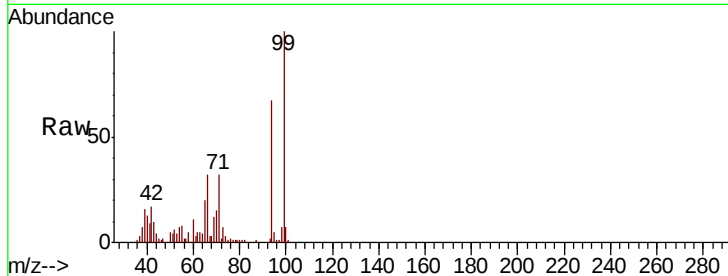
Tot Ion: 99 Resp: 174086

Ion Ratio Lower Upper

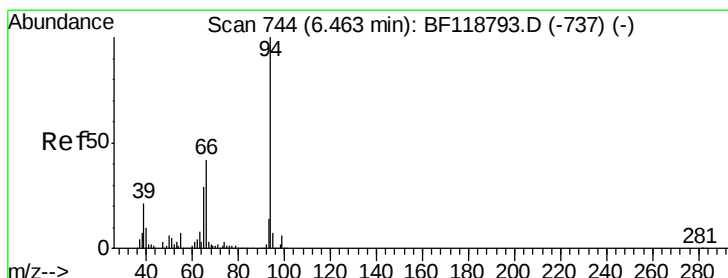
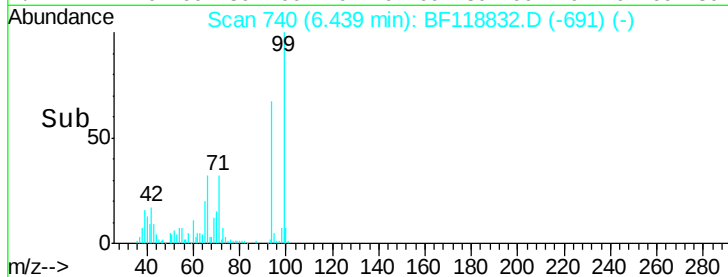
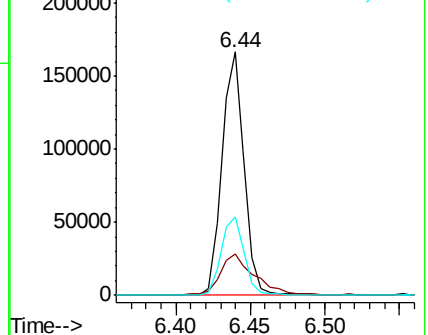
99 100

42 17.0 13.4 20.0

71 32.4 29.0 43.6



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: 58.904 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

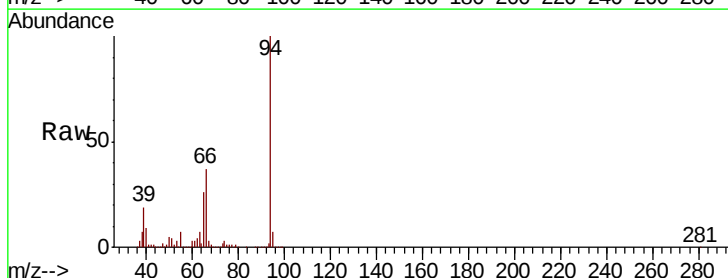
Tgt Ion: 94 Resp: 955554

Ion Ratio Lower Upper

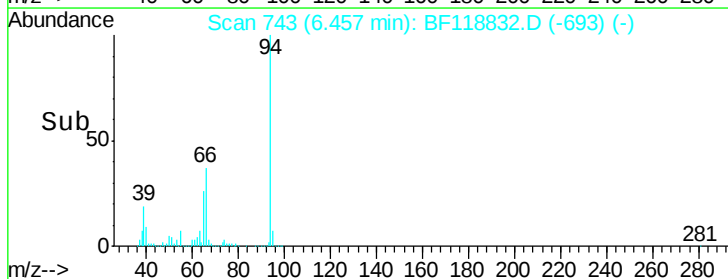
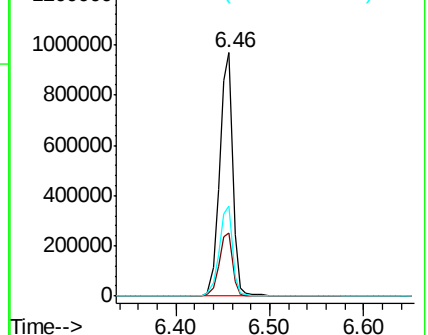
94 100

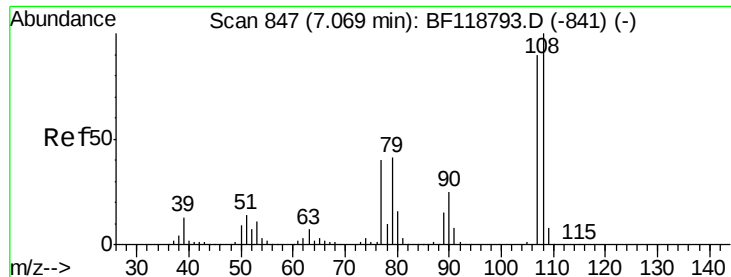
65 26.0 9.1 49.1

66 37.0 21.7 61.7



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

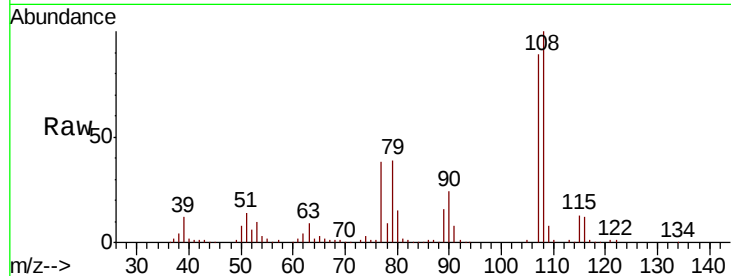




#17
2-Methylphenol
Concen: 14.450 ng
RT: 7.06 min Scan# 846
Delta R.T. -0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
108	112.1	89.3	133.9
77	42.7	36.2	54.2
79	43.6	36.3	54.5



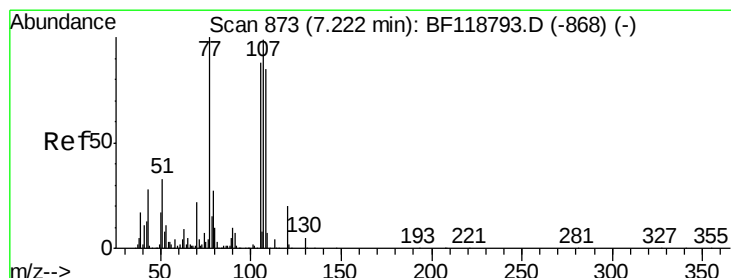
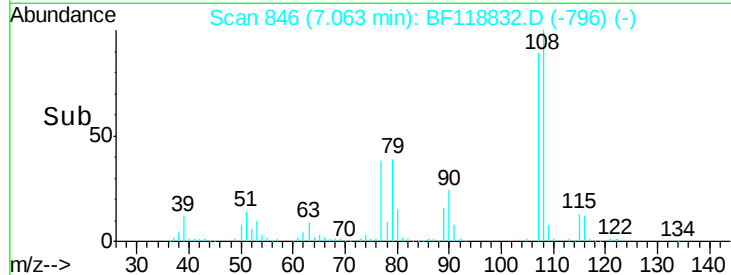
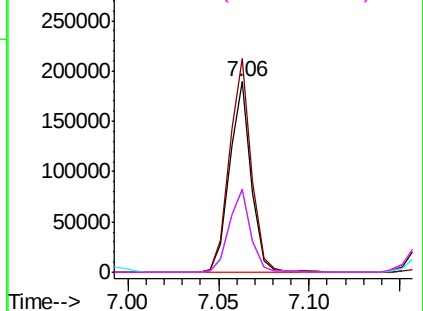
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

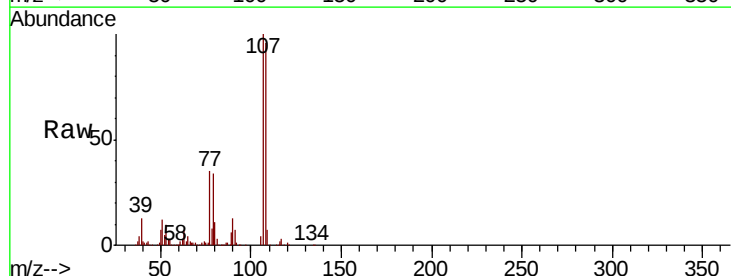
Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#20
3+4-Methylphenols
Concen: 40.725 ng
RT: 7.22 min Scan# 873
Delta R.T. -0.00 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Tgt Ion	Ratio	Lower	Upper
107	100		
108	95.8	65.9	105.9
77	35.4	80.9	120.9#
79	33.6	7.5	47.5



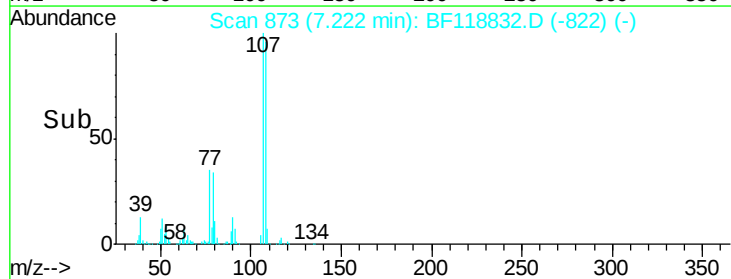
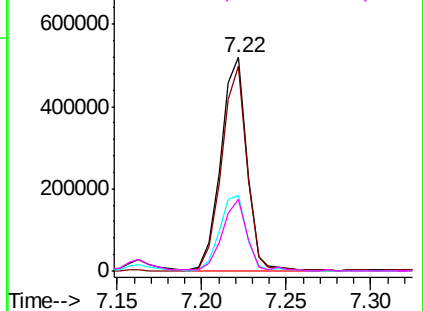
Abundance

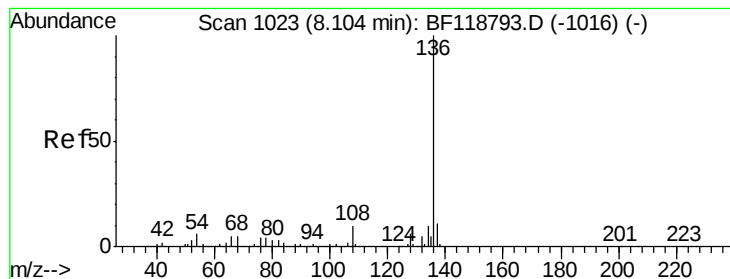
Ion 107.00 (106.70 to 107.70): E

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





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 880367

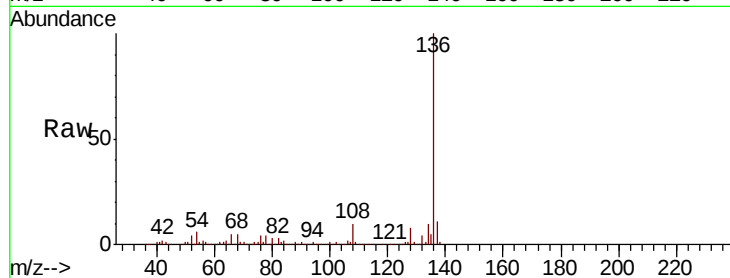
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 6.2 5.0 7.6

68 5.4 4.2 6.4

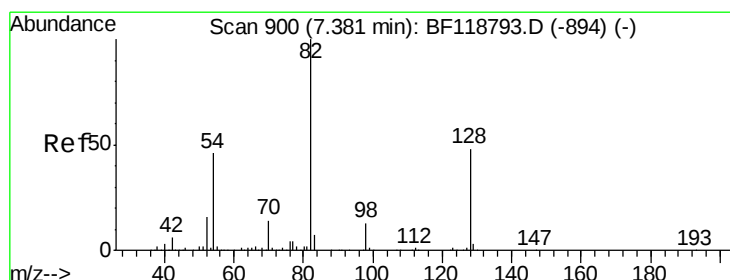
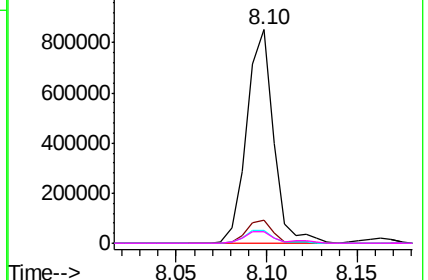
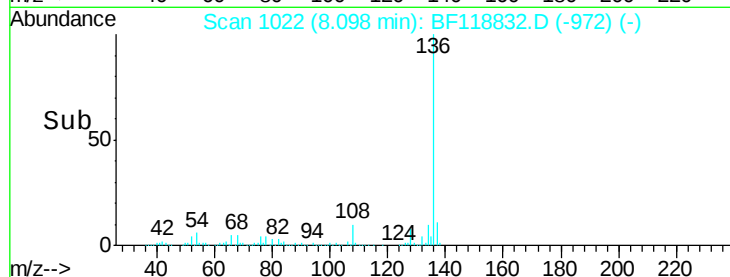


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 16.833 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

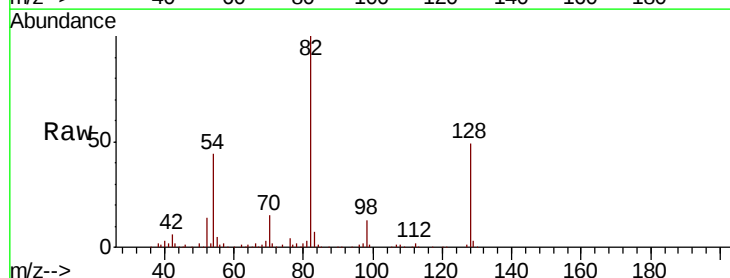
Tgt Ion: 82 Resp: 248628

Ion Ratio Lower Upper

82 100

128 49.0 38.5 57.7

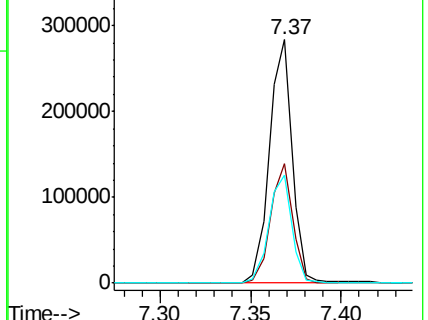
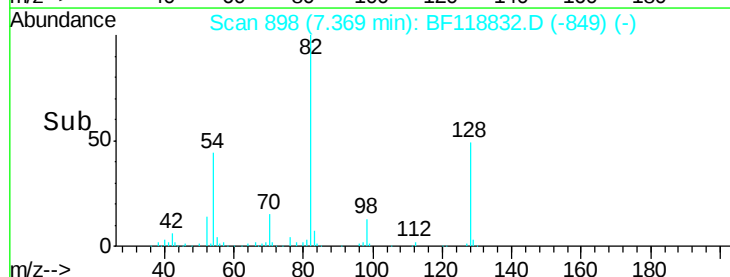
54 44.3 36.7 55.1

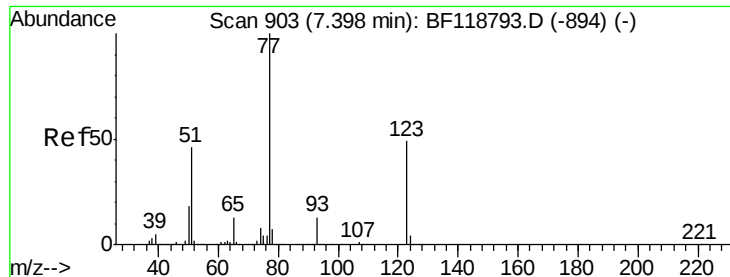


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

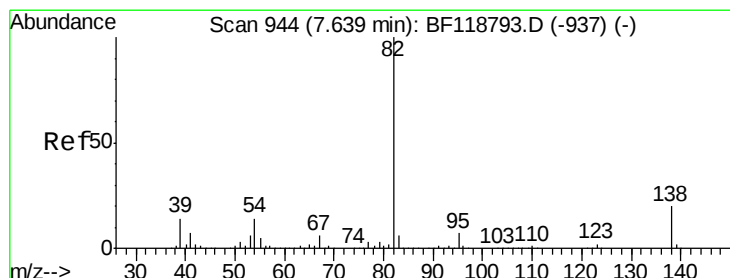
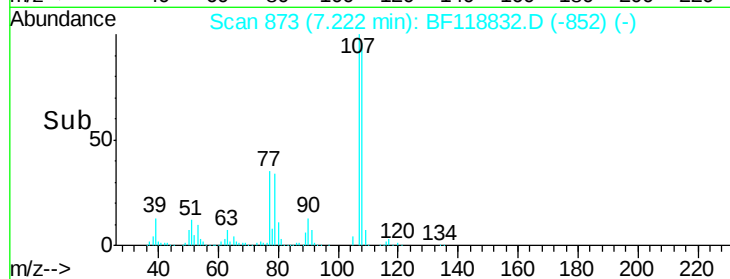
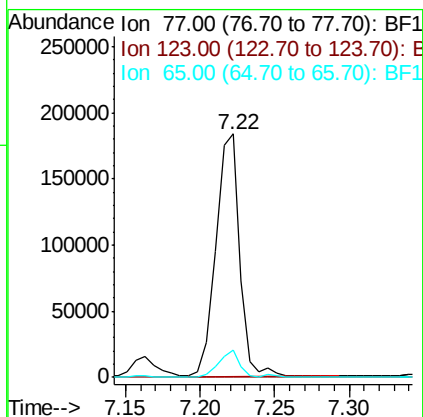
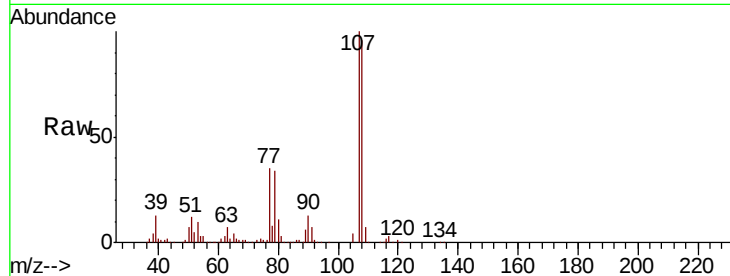




#24
Nitrobenzene
Concen: 13.944 ng
RT: 7.22 min Scan# 873
Delta R.T. -0.18 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

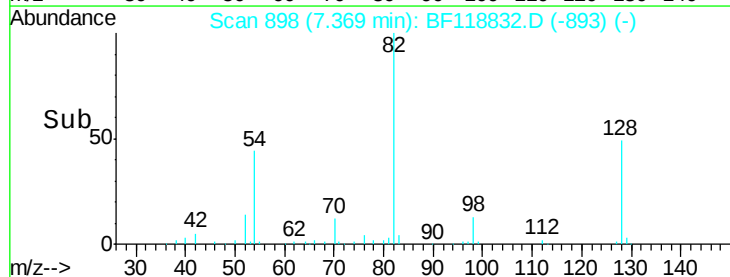
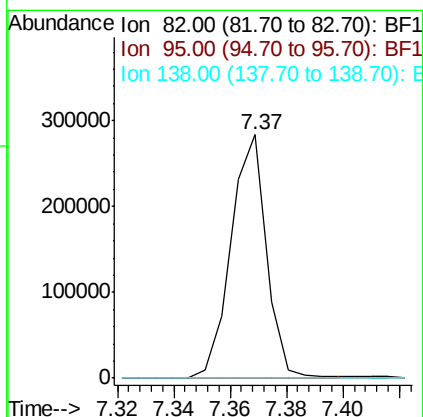
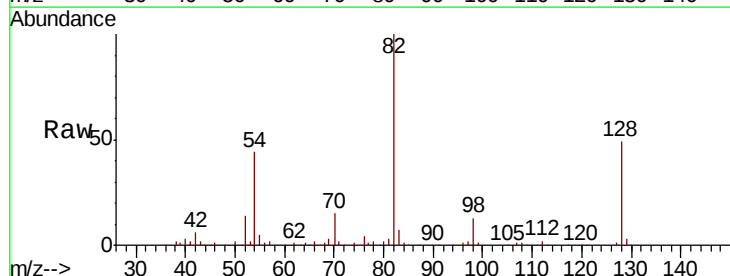
Instrument :
BNA_F
ClientSampleId :

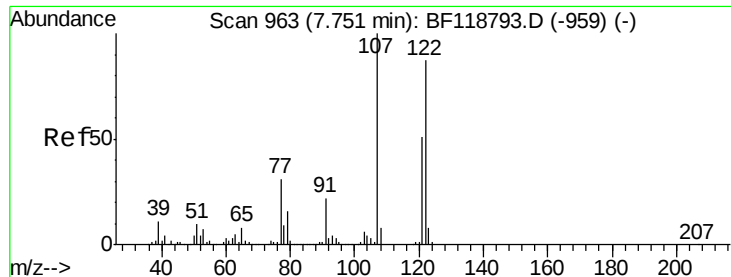
Tot Ion	Ratio	Lower	Upper
77	100		
123	0.0	39.0	58.4#
65	11.1	10.6	15.8



#25
Isophorone
Concen: 9.235 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.27 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.0	6.0	9.0#
138	0.0	15.7	23.5#

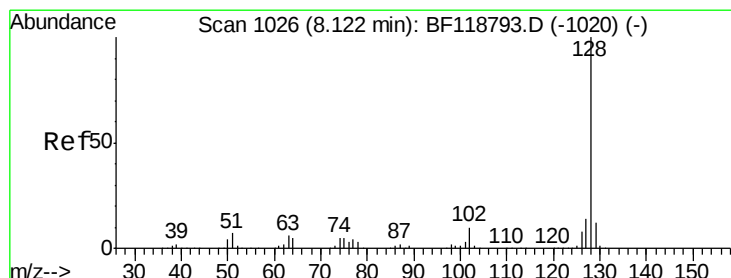
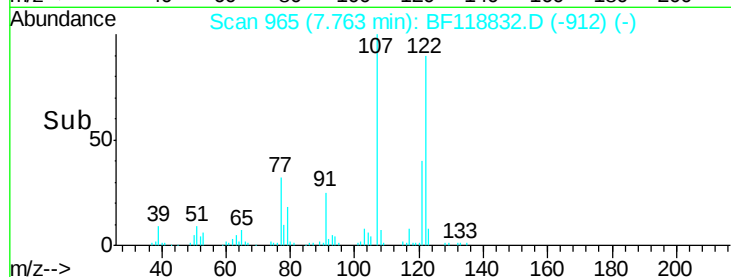
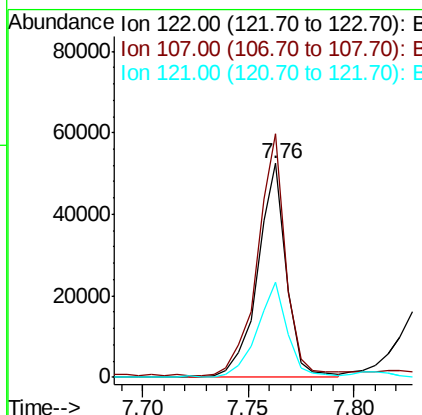
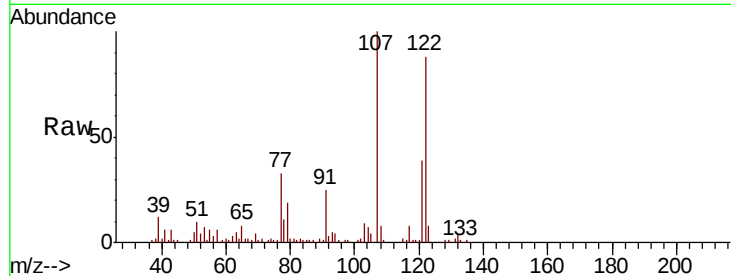




#27
2,4-Dimethylphenol
Concen: 4.665 ng
RT: 7.76 min Scan# 965
Delta R.T. 0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

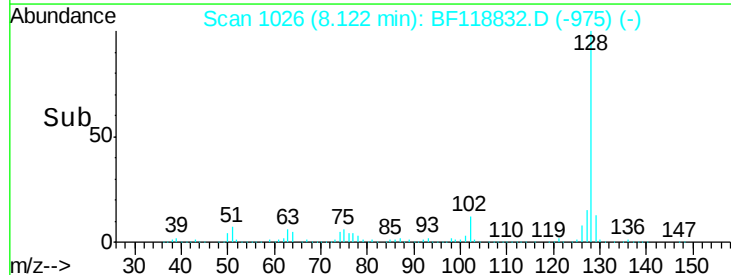
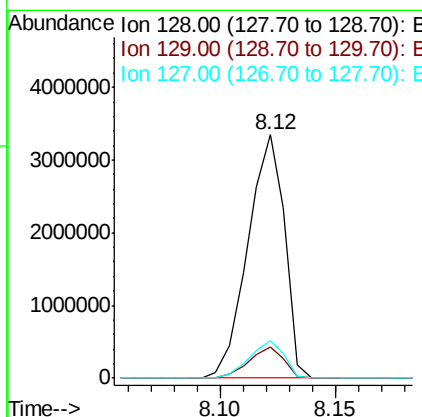
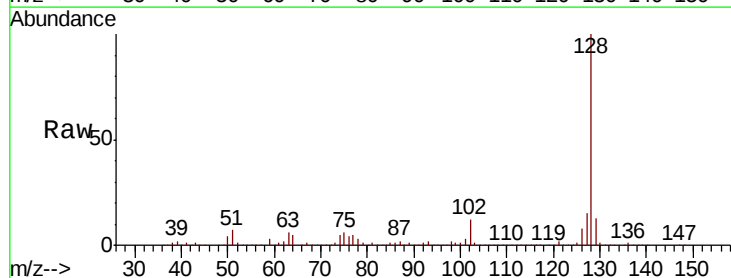
Instrument :
BNA_F
ClientSampleId :

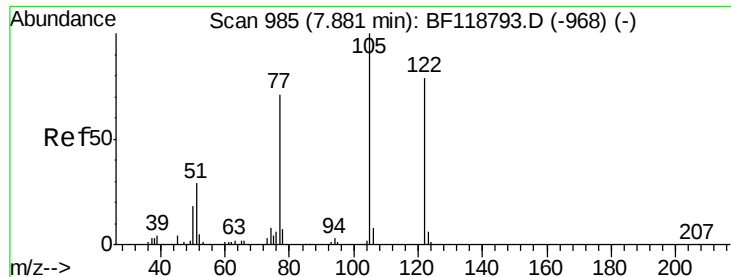
Tot Ion:122 Resp: 49821
Ion Ratio Lower Upper
122 100
107 114.0 92.2 138.2
121 44.6 46.8 70.2#



#31
Naphthalene
Concen: 92.071 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.00 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Tgt Ion:128 Resp: 3707180
Ion Ratio Lower Upper
128 100
129 12.7 9.4 14.2
127 15.4 11.3 16.9

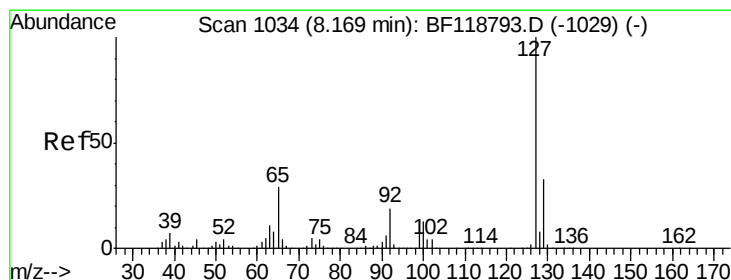
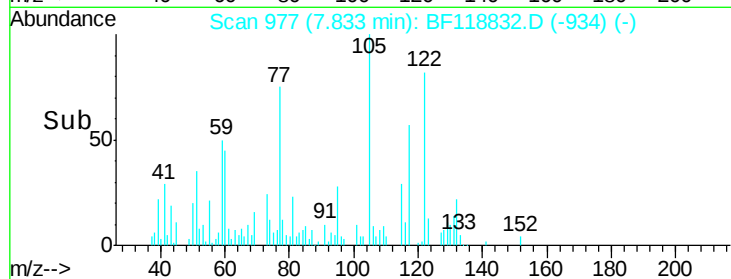
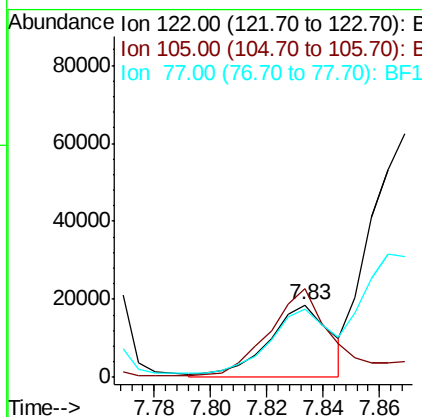
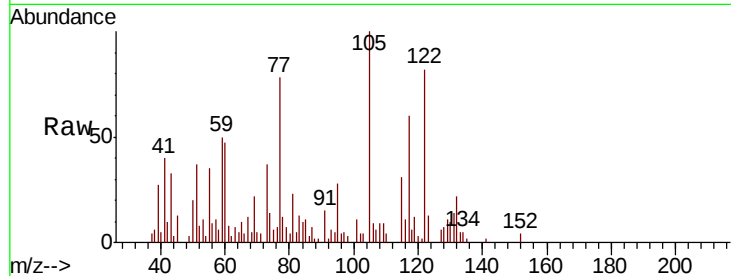




#32
Benzoic acid
Concen: 3.134 ng
RT: 7.83 min Scan# 977
Delta R.T. -0.05 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

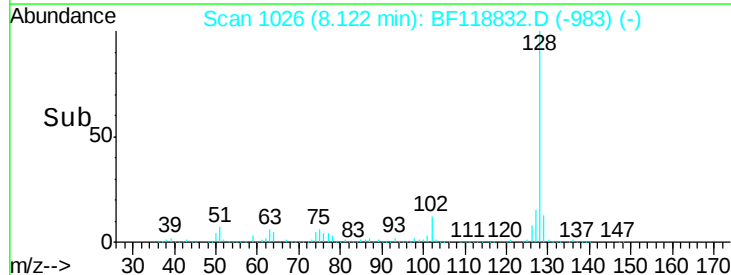
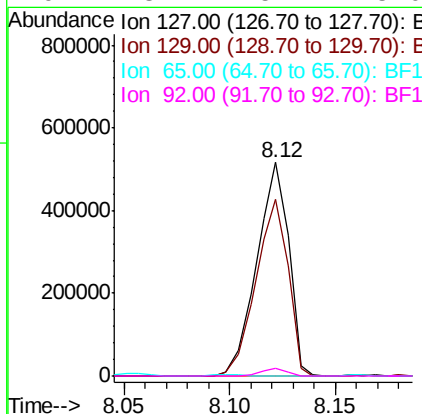
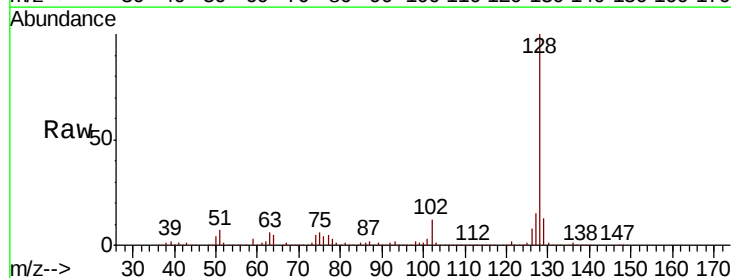
Instrument :
BNA_F
ClientSampleId :

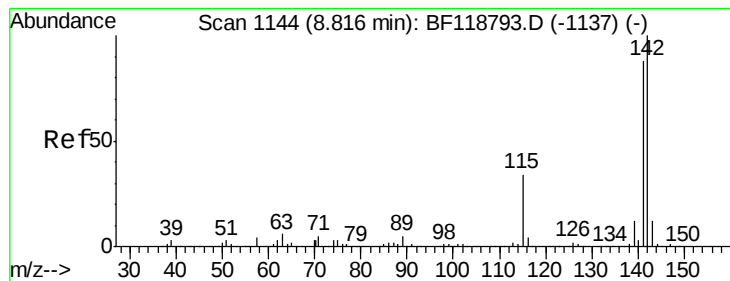
Tot Ion:122 Resp: 27714
Ion Ratio Lower Upper
122 100
105 121.6 104.4 144.4
77 94.3 69.3 109.3



#33
4-Chloroaniline
Concen: 30.051 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.05 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Tgt Ion:127 Resp: 541340
Ion Ratio Lower Upper
127 100
129 82.5 26.7 40.1#
65 0.0 22.9 34.3#
92 3.4 15.4 23.0#





#37

2-Methylnaphthalene

Concen: 20.899 ng

RT: 8.81 min Scan# 1143

Delta R.T. -0.01 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

Instrument :

BNA_F

ClientSampleId :

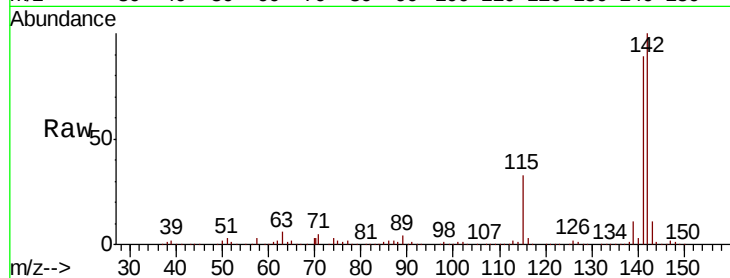
Tot Ion:142 Resp: 583613

Ion Ratio Lower Upper

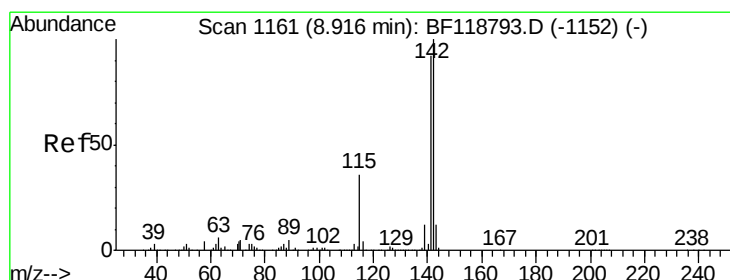
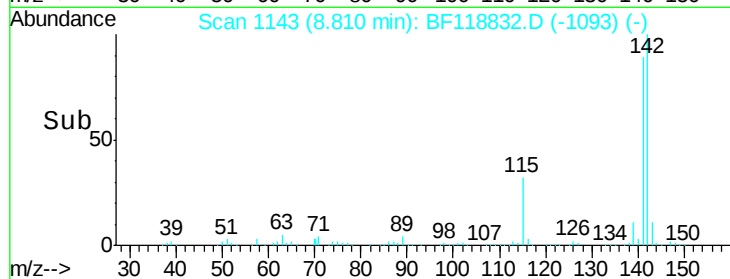
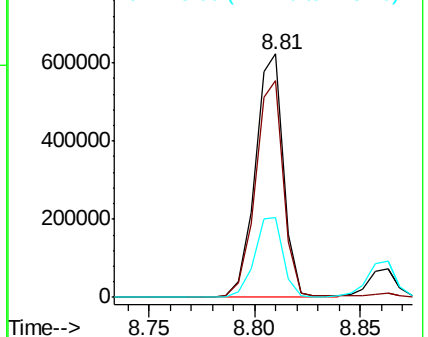
142 100

141 89.2 70.1 105.1

115 32.6 27.3 40.9



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

1-Methylnaphthalene

Concen: 13.279 ng

RT: 8.90 min Scan# 1159

Delta R.T. -0.01 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

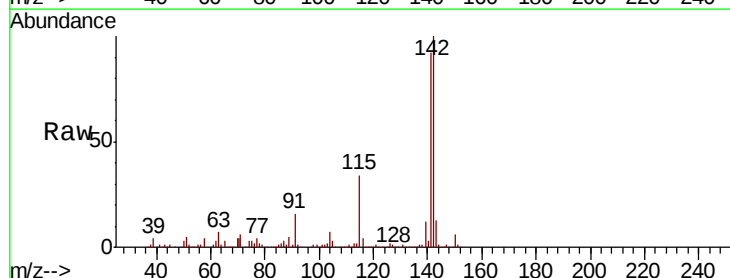
Tgt Ion:142 Resp: 348825

Ion Ratio Lower Upper

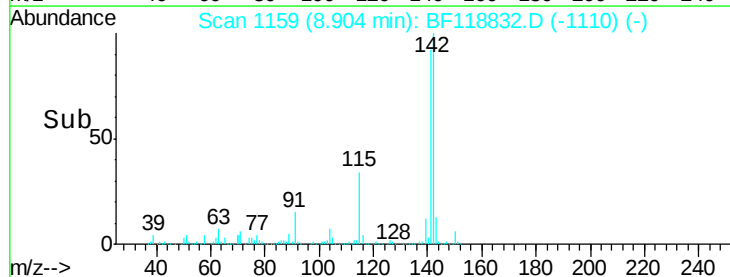
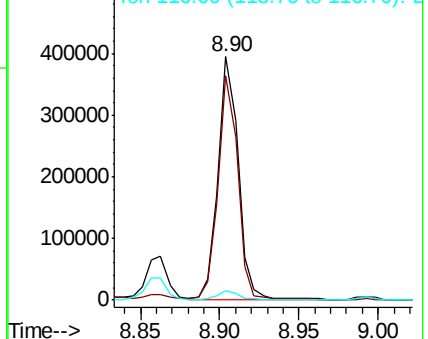
142 100

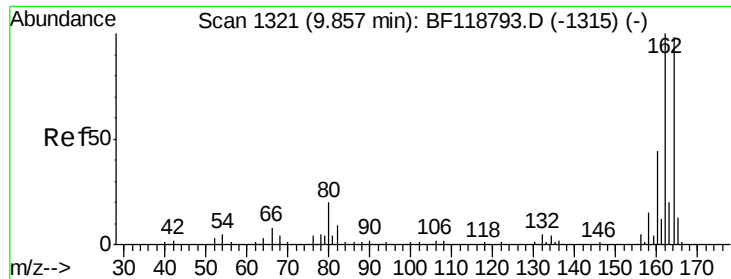
141 92.3 73.8 110.6

116 3.8 3.0 4.4



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

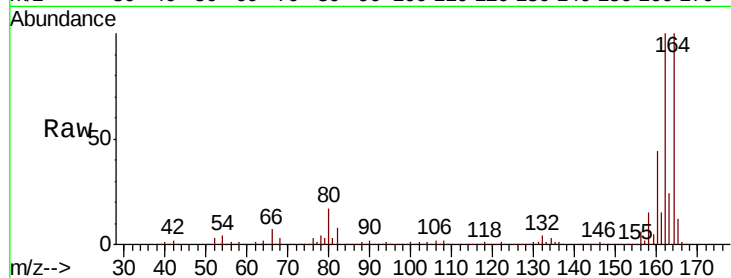




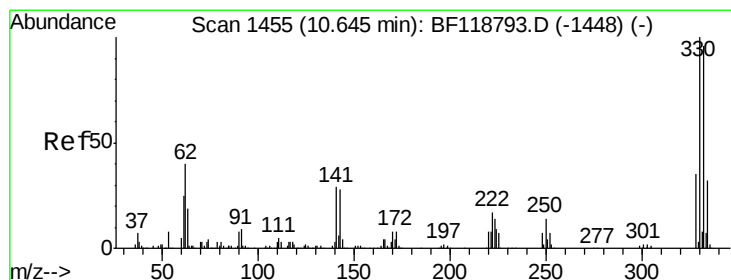
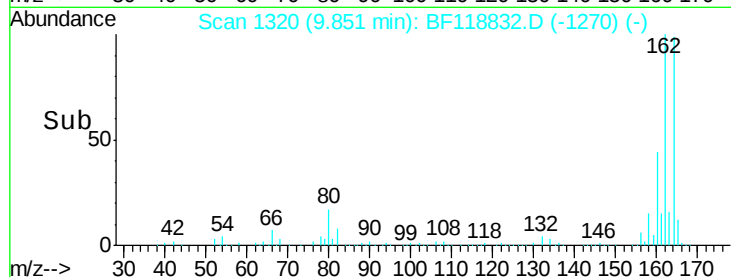
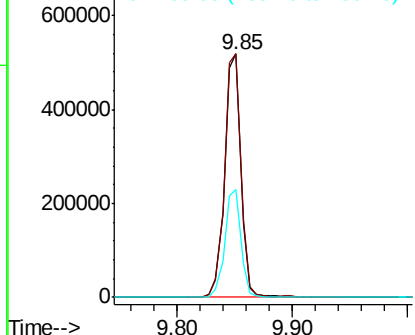
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 504046
Ion Ratio Lower Upper
164 100
162 100.0 81.4 122.2
160 44.4 35.6 53.4

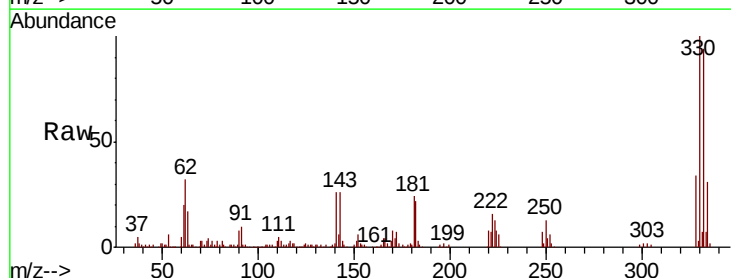


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

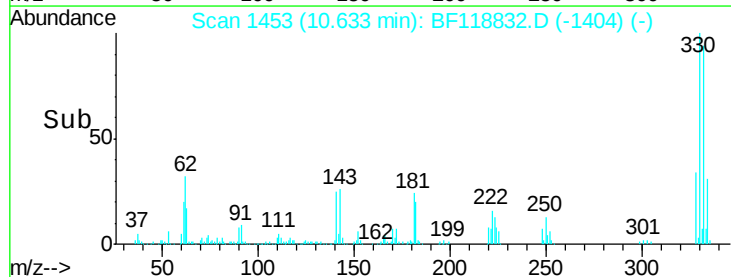
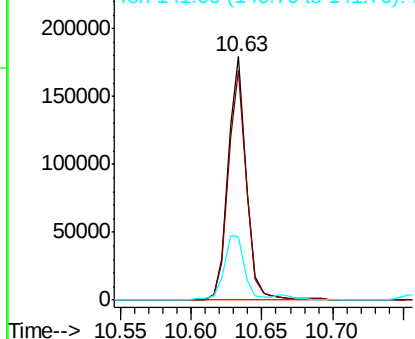


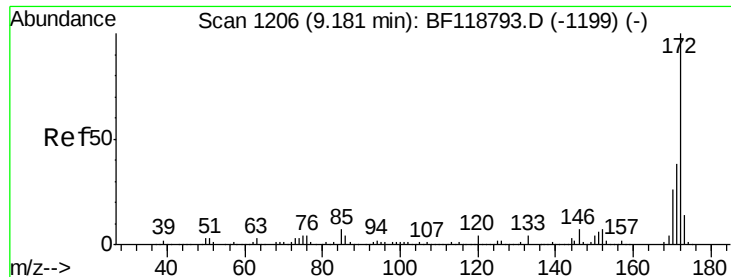
#42
2,4,6-Tribromophenol
Concen: 26.697 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Tgt Ion:330 Resp: 161012
Ion Ratio Lower Upper
330 100
332 95.5 77.3 115.9
141 29.3 22.4 33.6



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

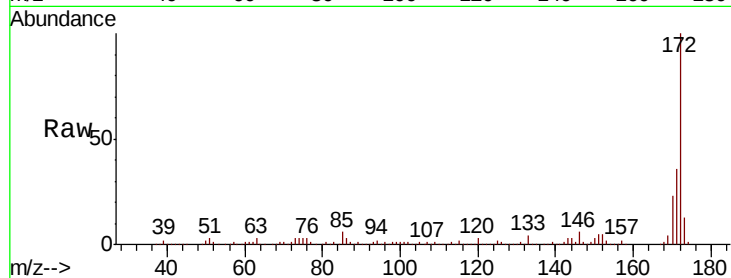




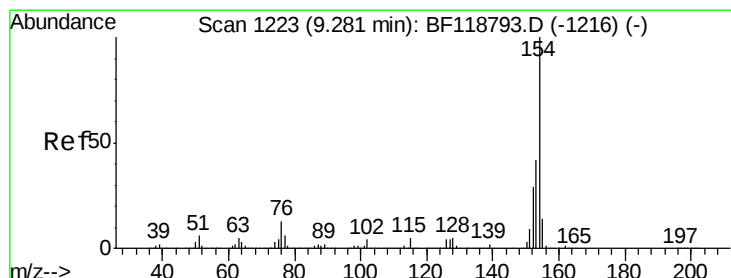
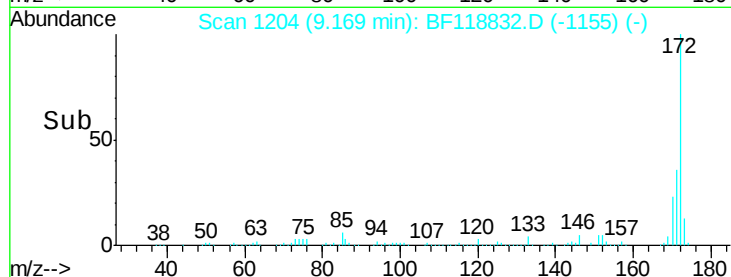
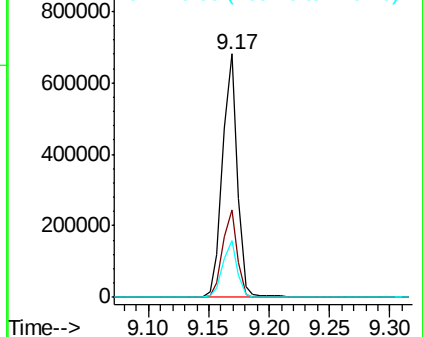
#45
2-Fluorobiphenyl
Concen: 20.449 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 576573
Ion Ratio Lower Upper
172 100
171 35.8 30.8 46.2
170 23.2 20.5 30.7

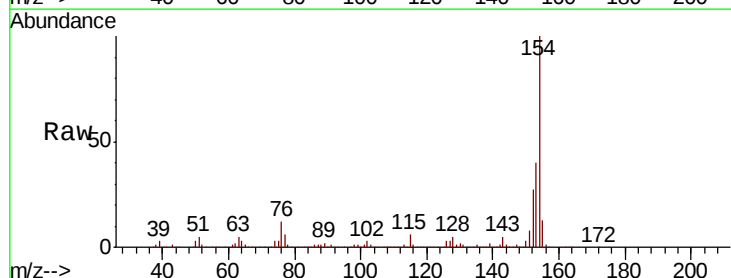


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

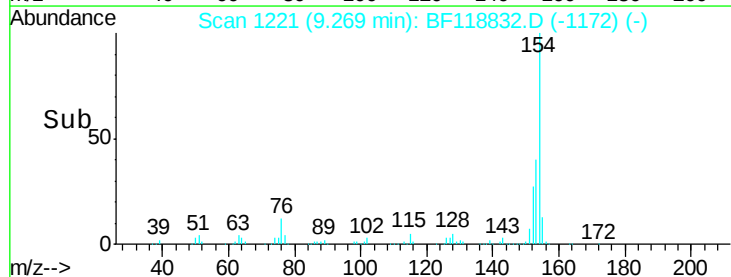
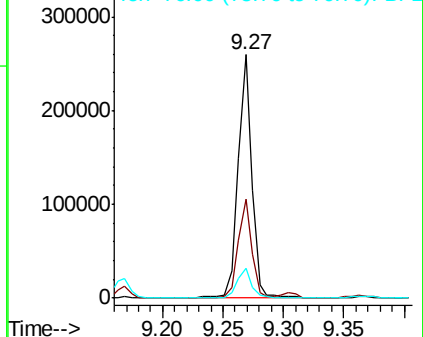


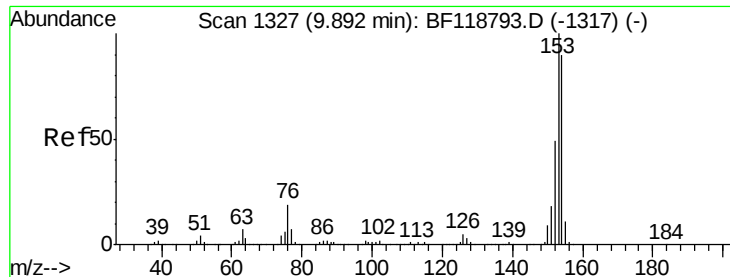
#46
1,1'-Biphenyl
Concen: 5.992 ng
RT: 9.27 min Scan# 1221
Delta R.T. -0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Tgt Ion:154 Resp: 208933
Ion Ratio Lower Upper
154 100
153 40.4 22.4 62.4
76 12.0 0.0 32.7



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





#52

Acenaphthene

Concen: 29.837 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

Instrument :

BNA_F

ClientSampled :

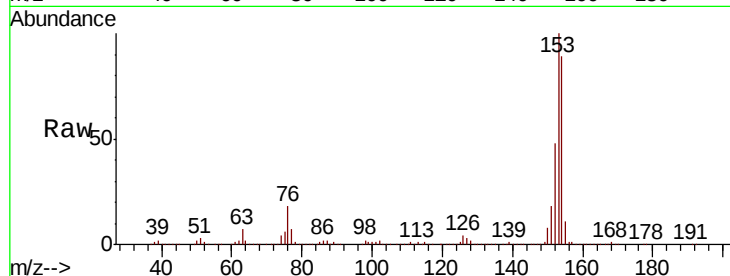
Tot Ion:154 Resp: 822864

Ion Ratio Lower Upper

154 100

153 112.5 89.4 134.0

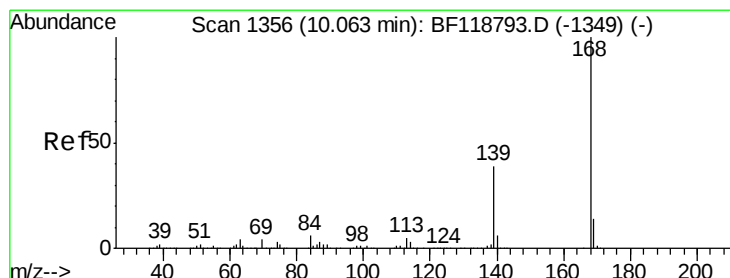
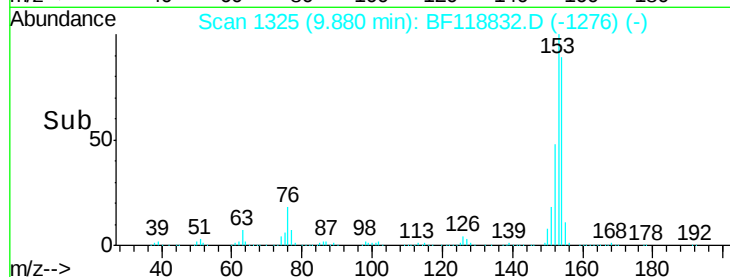
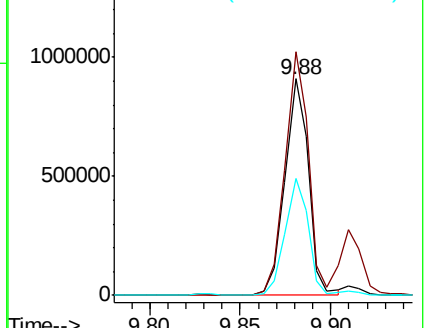
152 53.8 43.6 65.4



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



#55

Dibenzofuran

Concen: 18.883 ng

RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

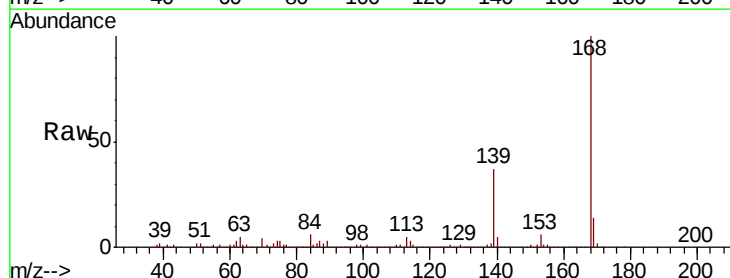
Tgt Ion:168 Resp: 752586

Ion Ratio Lower Upper

168 100

139 37.1 31.6 47.4

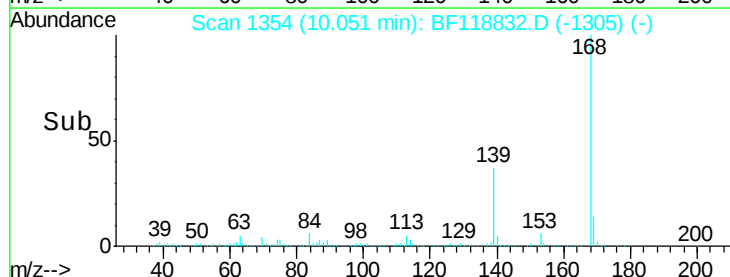
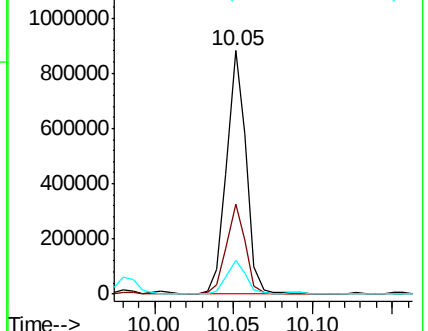
169 13.7 11.4 17.2

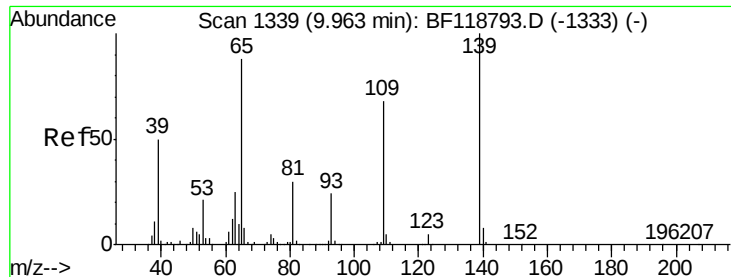


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

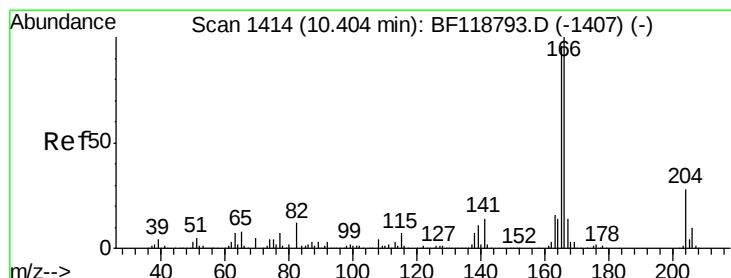
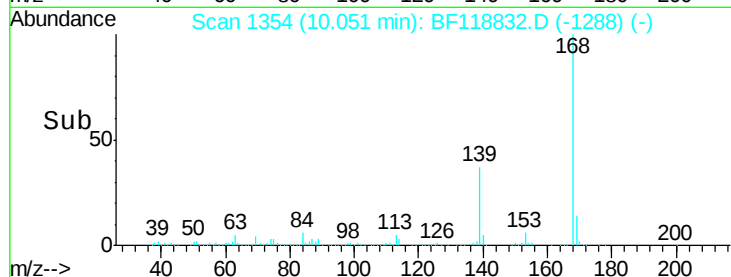
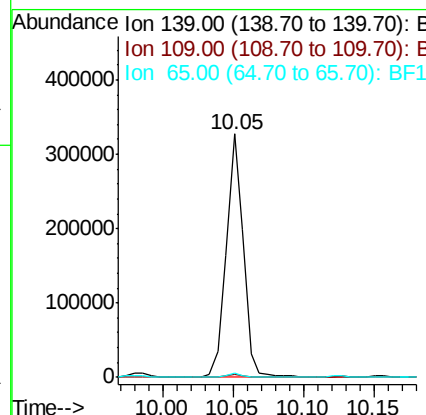
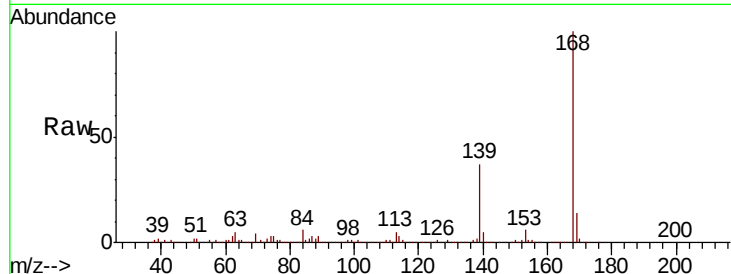




#56
4-Nitrophenol
Concen: 43.210 ng
RT: 10.05 min Scan# 1354
Delta R.T. 0.09 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

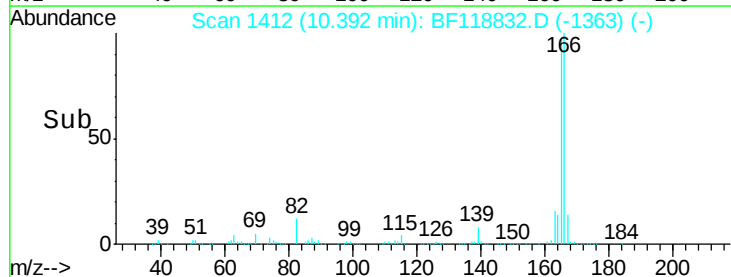
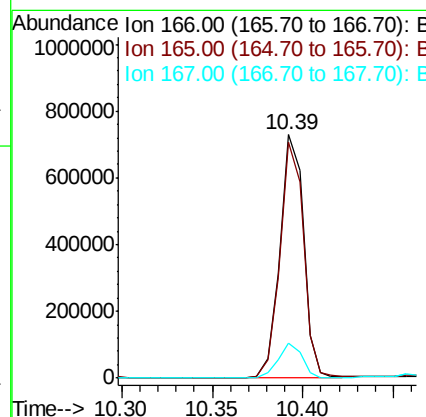
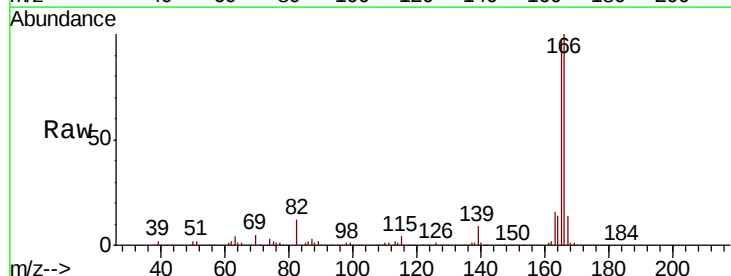
Instrument :
BNA_F
ClientSampleId :

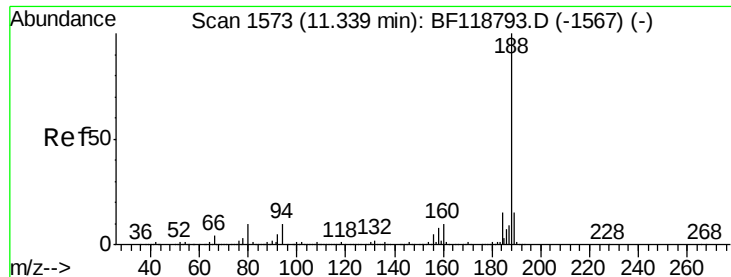
Tot Ion	Ratio	Lower	Upper
139	100		
109	1.1	48.0	88.0#
65	1.5	68.3	108.3#



#58
Fluorene
Concen: 22.221 ng
RT: 10.39 min Scan# 1412
Delta R.T. -0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.9	77.0	115.6
167	14.2	11.1	16.7

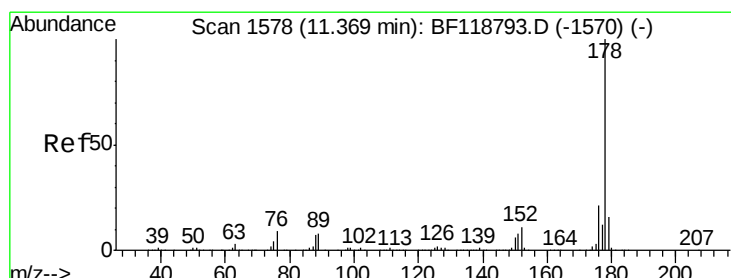
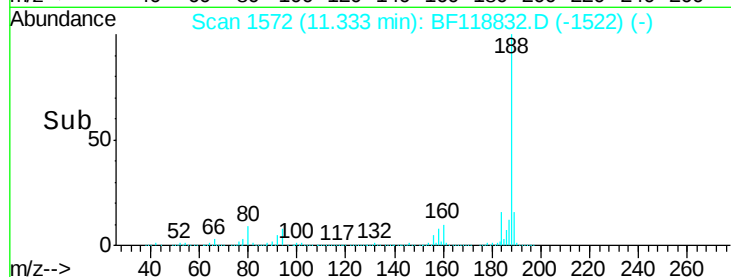
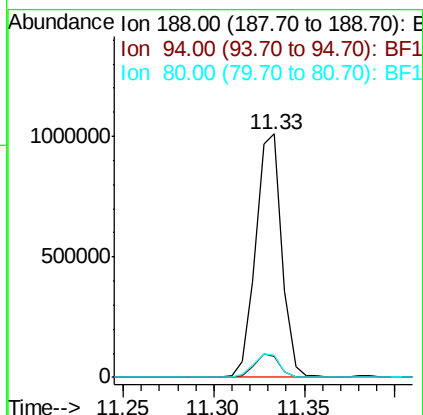
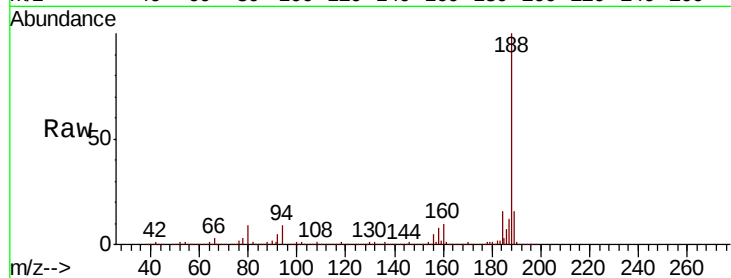




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

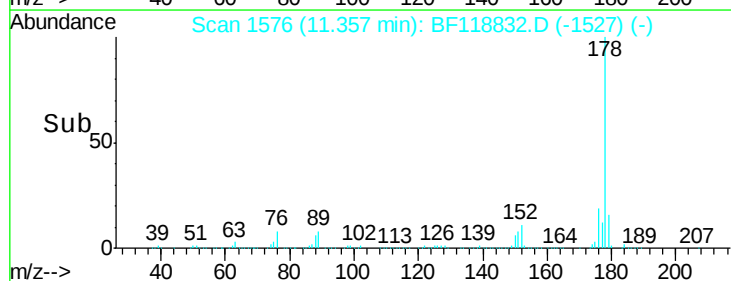
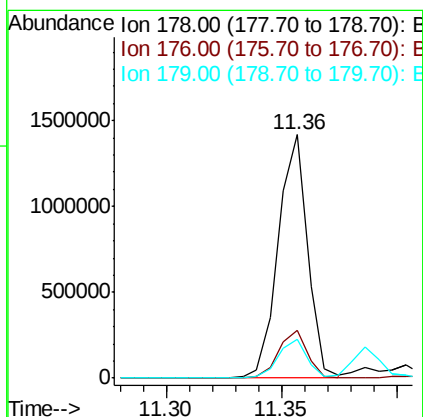
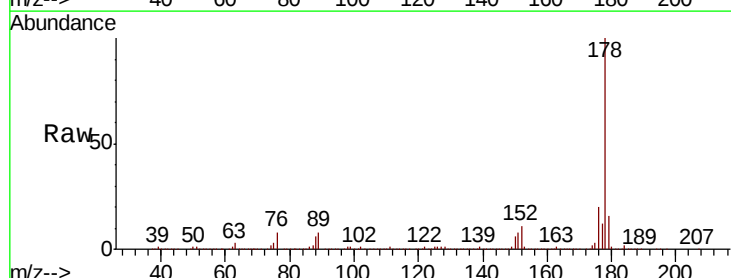
Instrument :
BNA_F
ClientSampled :

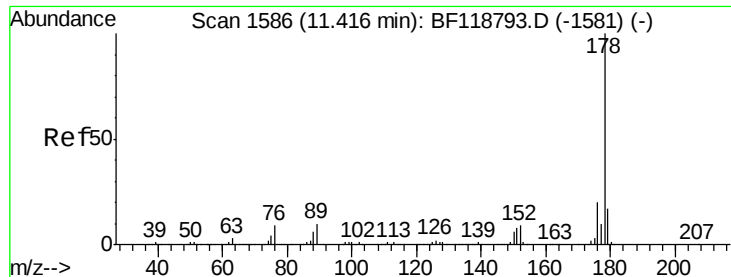
Tot Ion:188 Resp: 1013952
Ion Ratio Lower Upper
188 100
94 8.5 7.9 11.9
80 8.9 8.4 12.6



#71
Phenanthrene
Concen: 24.868 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF118832.D
Acq: 6 Feb 2020 10:46

Tgt Ion:178 Resp: 1240608
Ion Ratio Lower Upper
178 100
176 19.5 16.6 24.8
179 15.7 13.2 19.8





#72

Anthracene

Concen: 24.997 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.06 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

Instrument :

BNA_F

ClientSampleId :

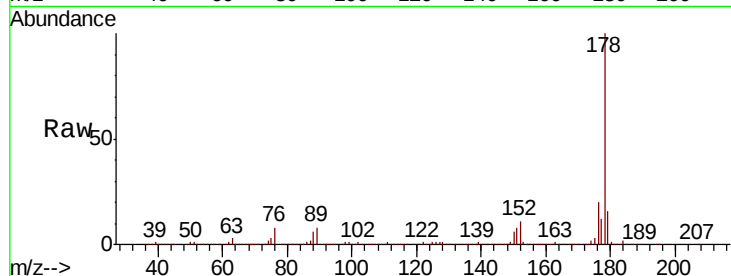
Tot Ion:178 Resp: 1240608

Ion Ratio Lower Upper

178 100

176 19.5 16.2 24.2

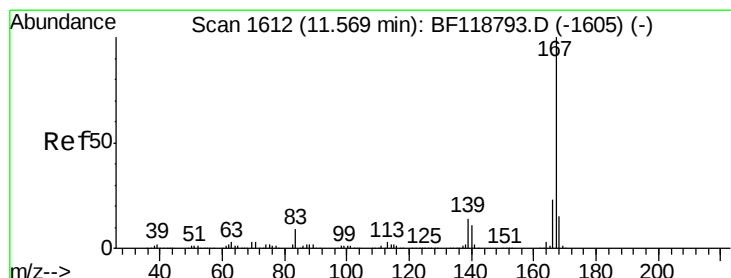
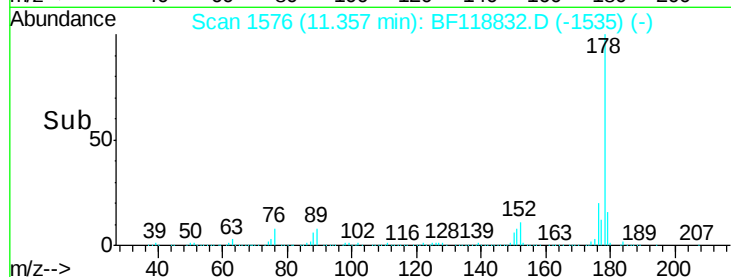
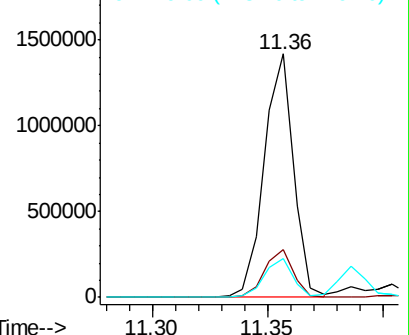
179 15.7 13.4 20.2



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



#73

Carbazole

Concen: 10.042 ng

RT: 11.56 min Scan# 1610

Delta R.T. -0.01 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

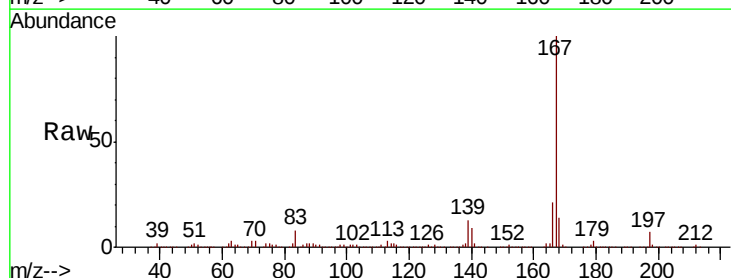
Tgt Ion:167 Resp: 437385

Ion Ratio Lower Upper

167 100

166 21.5 18.4 27.6

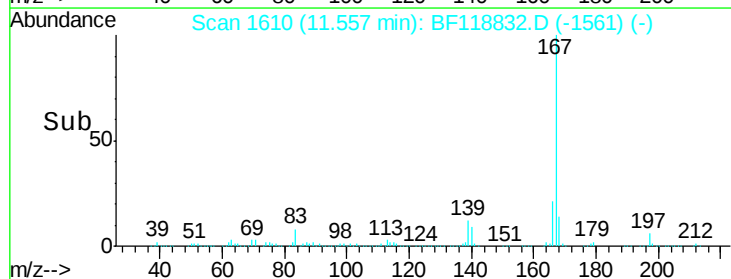
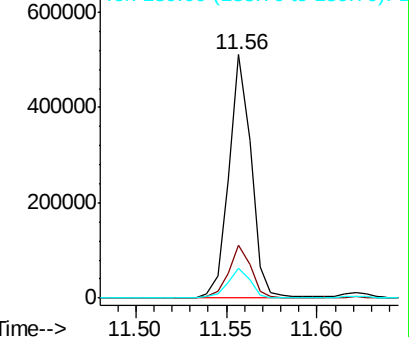
139 12.5 11.1 16.7

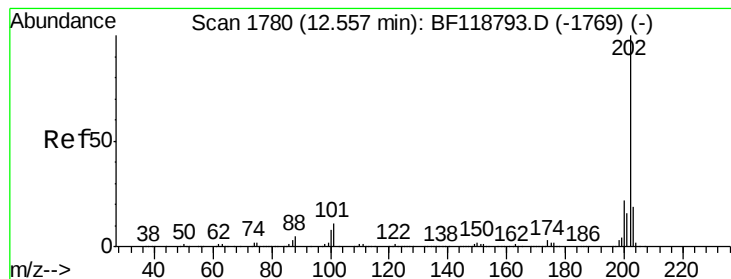


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 4.027 ng

RT: 12.54 min Scan# 1777

Delta R.T. -0.02 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

Instrument :

BNA_F

ClientSampleId :

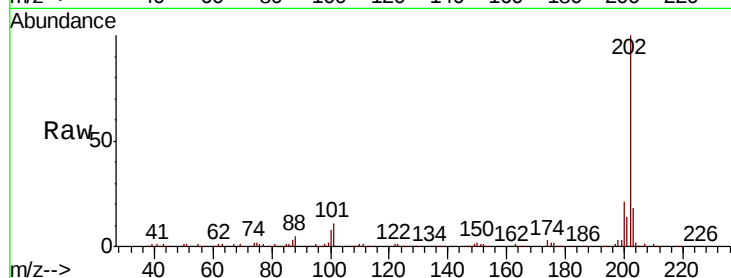
Tot Ion:202 Resp: 219337

Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.0

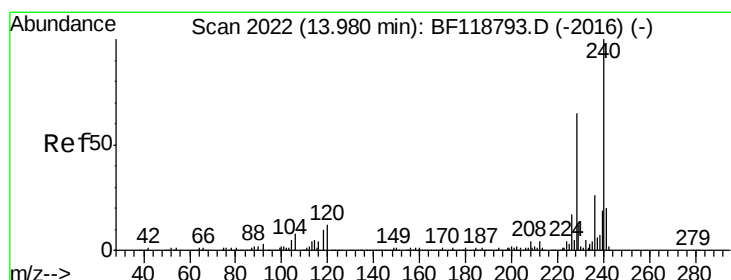
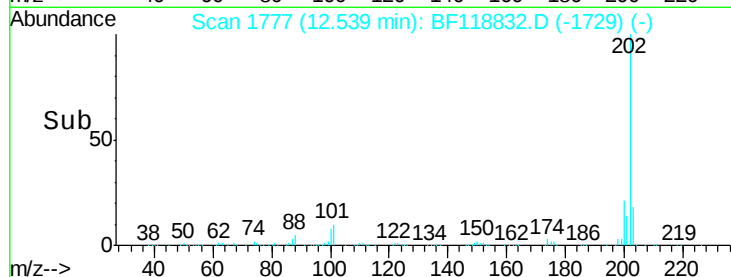
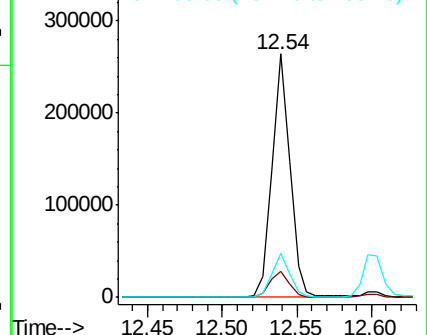
203 17.9 0.0 38.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

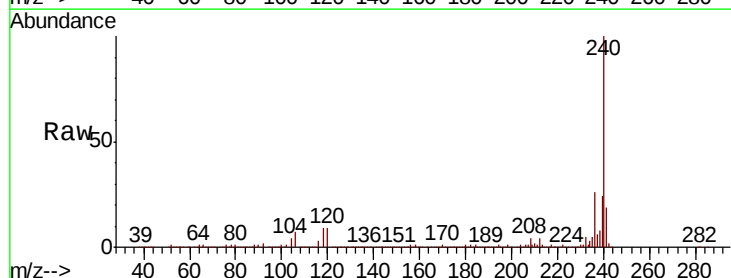
Tgt Ion:240 Resp: 914307

Ion Ratio Lower Upper

240 100

120 9.4 9.4 14.0

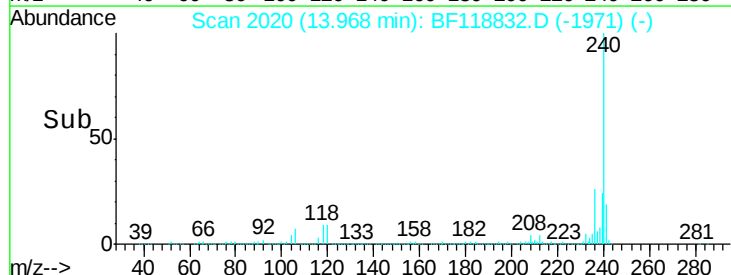
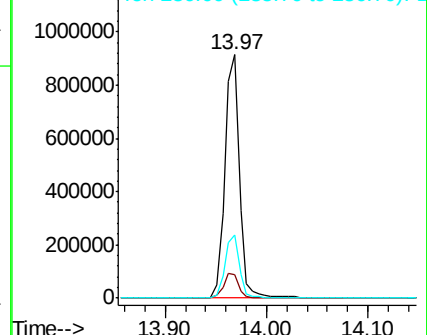
236 26.2 21.0 31.6

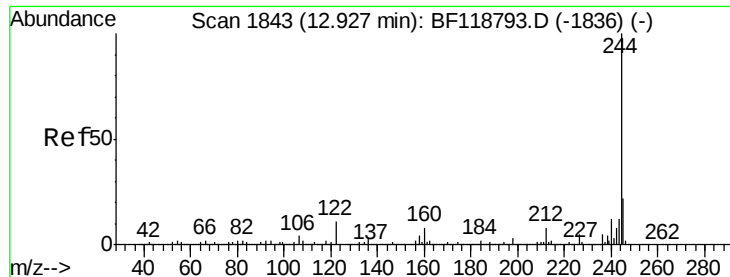


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#79

Terphenyl-d14

Concen: 21.473 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.02 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

Instrument :

BNA_F

ClientSampled :

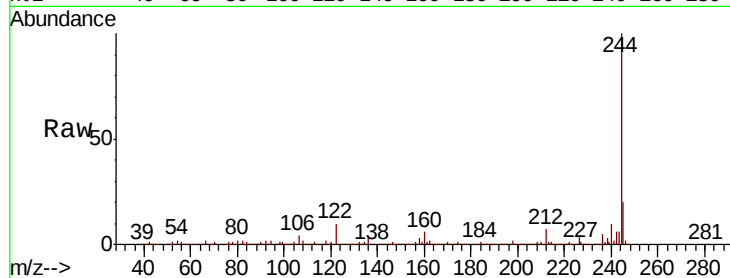
Tot Ion:244 Resp: 955825

Ion Ratio Lower Upper

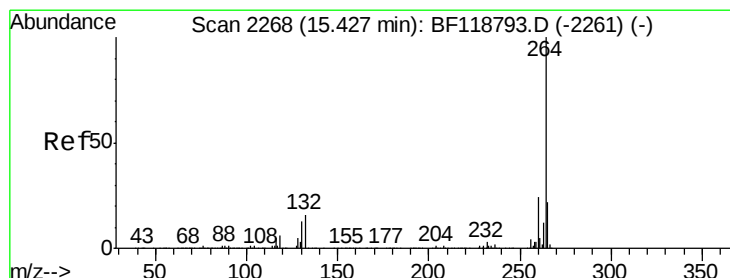
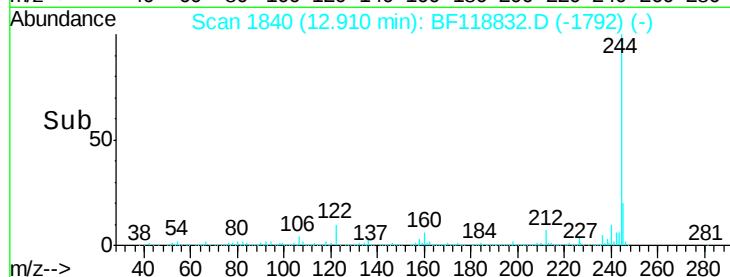
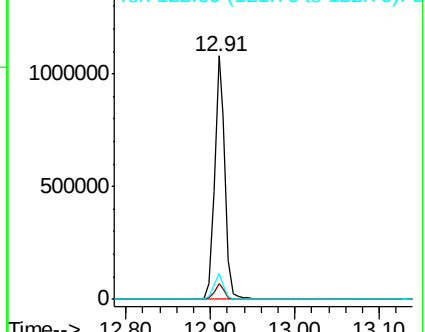
244 100

212 6.6 6.5 9.7

122 10.4 8.9 13.3



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.41 min Scan# 2265

Delta R.T. -0.02 min

Lab File: BF118832.D

Acq: 6 Feb 2020 10:46

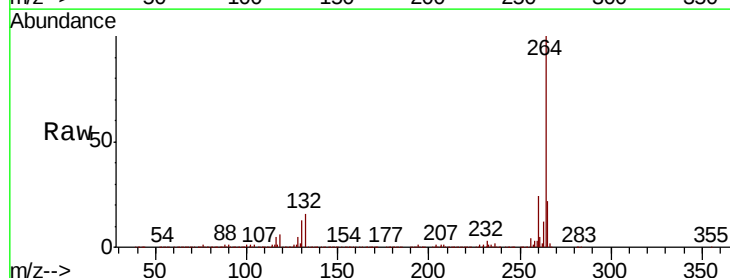
Tgt Ion:264 Resp: 881051

Ion Ratio Lower Upper

264 100

260 23.8 19.1 28.7

265 22.2 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

