

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091019\
 Data File : BF116941.D
 Acq On : 11 Sep 2019 00:14
 Operator : HP/JU
 Sample : K4689-03DL 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 11 01:04:08 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 10 17:49:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	82144	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	320134	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	166513	20.00	ng	0.00
64) Phenanthrene-d10	11.35	188	247448	20.00	ng	0.00
76) Chrysene-d12	13.98	240	149609	20.00	ng	0.00
87) Perylene-d12	15.43	264	175411	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	55470	10.94	ng	0.00
7) Phenol-d6	6.46	99	47090	7.07	ng	-0.01
23) Nitrobenzene-d5	7.39	82	104494	18.63	ng	0.00
42) 2,4,6-Tribromophenol	10.65	330	32510	29.20	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	203757	20.64	ng	0.00
79) Terphenyl-d14	12.93	244	156524	19.35	ng	0.00

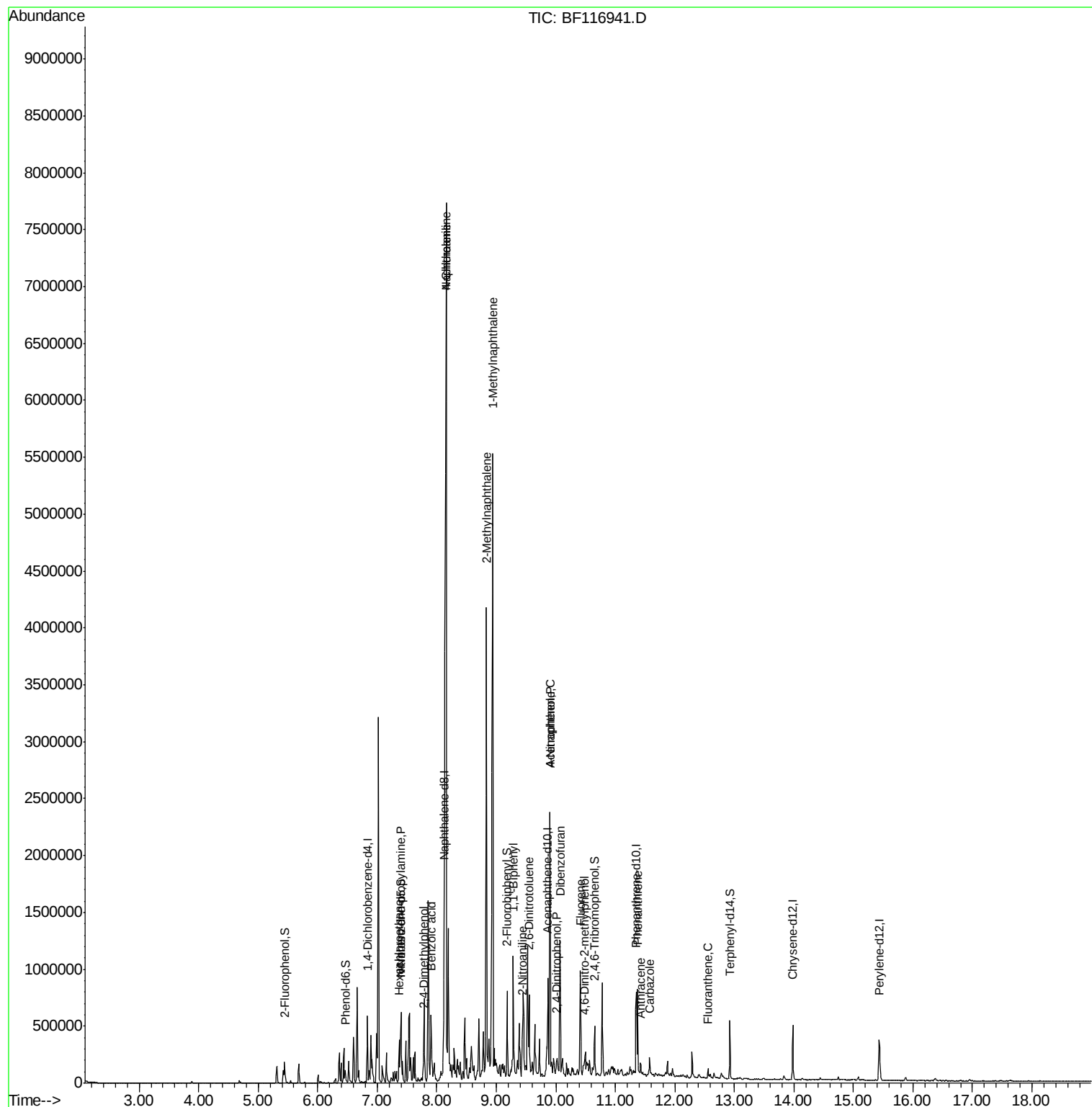
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
18) Hexachloroethane	7.37	117	27071	11.188	ng	# 1
19) n-Nitroso-di-n-propylamine	7.39	70	13958	3.184	ng	# 76
27) 2,4-Dimethylphenol	7.77	122	20425	4.770	ng	97
31) Naphthalene	8.16	128	5526713	363.058	ng	94
32) Benzoic acid	7.90	122	59644	24.667	ng	# 15
33) 4-Chloroaniline	8.16	127	804400	116.086	ng	# 33
37) 2-Methylnaphthalene	8.84	142	1334190	131.727	ng	97
38) 1-Methylnaphthalene	8.94	142	1654841	173.079	ng	99
46) 1,1'-Biphenyl	9.29	154	317434	25.123	ng	97
48) 2-Nitroaniline	9.43	65	9332	3.225	ng	# 21
51) 2,6-Dinitrotoluene	9.56	165	4409	2.010	ng	# 1
52) Acenaphthene	9.90	154	482702	51.931	ng	98
54) 2,4-Dinitrophenol	10.02	184	712	9.852	ng	# 1
55) Dibenzofuran	10.07	168	447310	34.137	ng	98
56) 4-Nitrophenol	9.90	139	6156	3.266	ng	# 55
58) Fluorene	10.42	166	250122	25.052	ng	99
65) 4,6-Dinitro-2-methylphenol	10.48	198	469	7.886	ng	# 1
71) Phenanthrene	11.37	178	267606	19.428	ng	100
72) Anthracene	11.42	178	37766	2.724	ng	98
73) Carbazole	11.58	167	68263	5.168	ng	99
75) Fluoranthene	12.56	202	29292	2.164	ng	99

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

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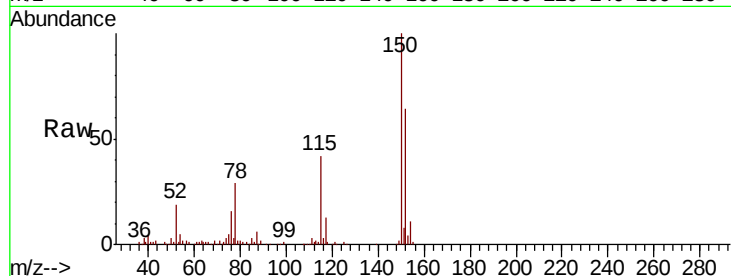


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. 0.00 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.4	186.6
115	65.8	49.9	74.9

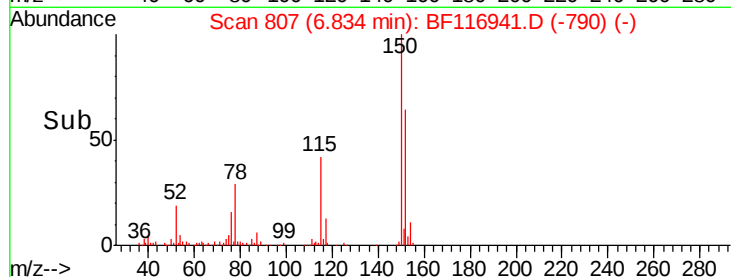
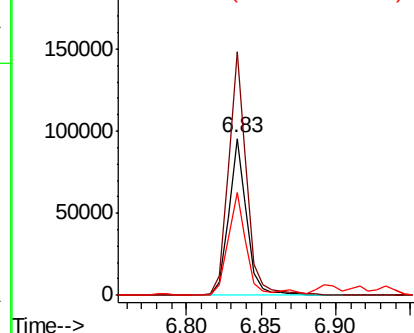


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

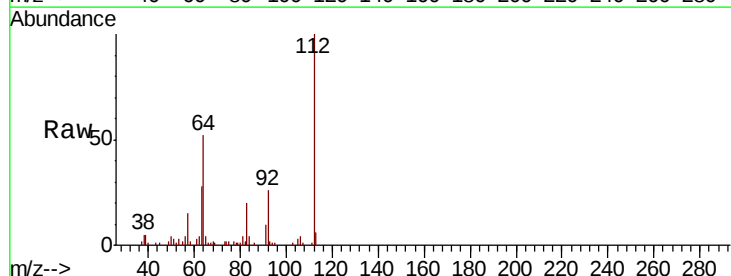
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 10.940 ng
RT: 5.45 min Scan# 572
Delta R.T. 0.00 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.3	47.1	70.7
63	28.0	24.9	37.3

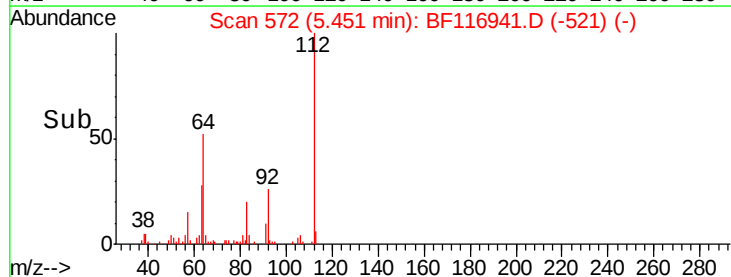
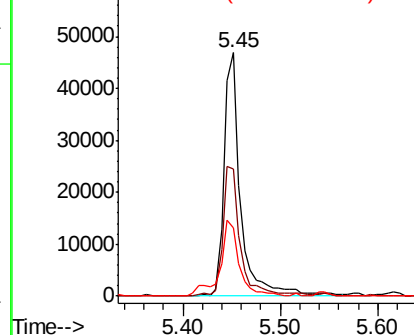


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 7.073 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.01 min

Lab File: BF116941.D

Acq: 11 Sep 2019 00:14

Instrument :

BNA_F

ClientSampled :

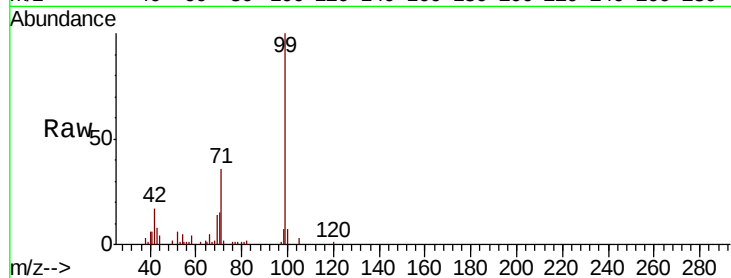
Tot Ion: 99 Resp: 47090

Ion Ratio Lower Upper

99 100

42 16.6 13.7 20.5

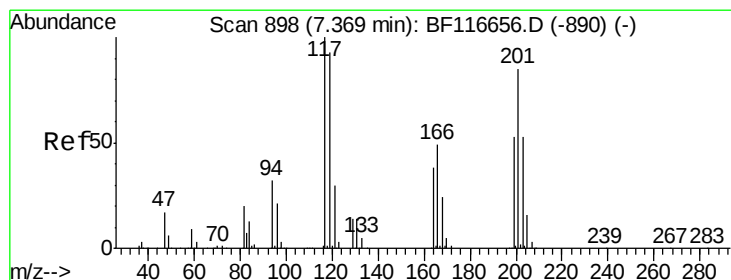
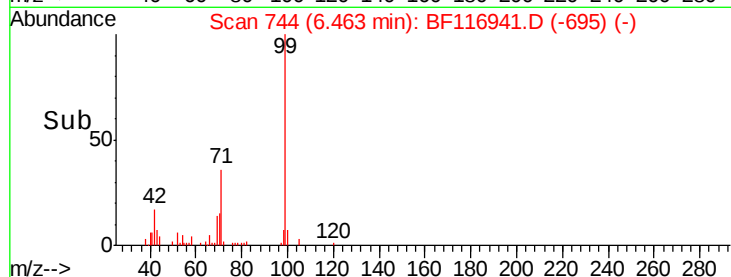
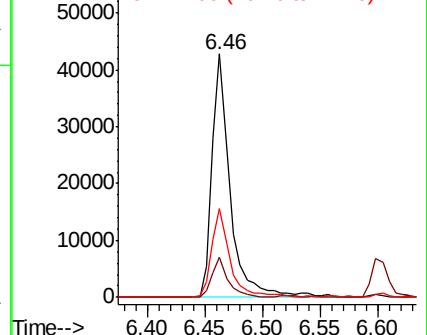
71 36.3 30.8 46.2



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



#18

Hexachloroethane

Concen: 11.188 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.02 min

Lab File: BF116941.D

Acq: 11 Sep 2019 00:14

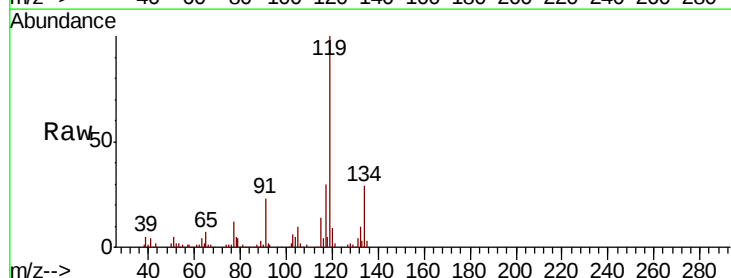
Tgt Ion: 117 Resp: 27071

Ion Ratio Lower Upper

117 100

119 334.5 76.9 115.3#

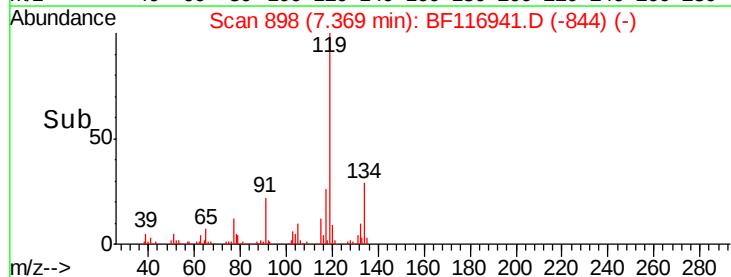
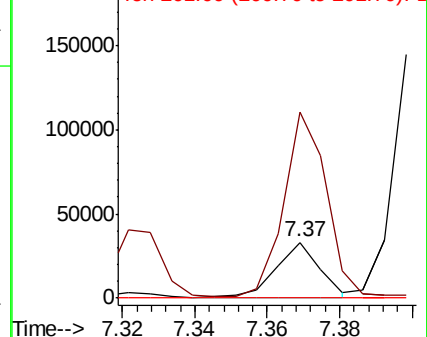
201 0.0 79.4 119.0#

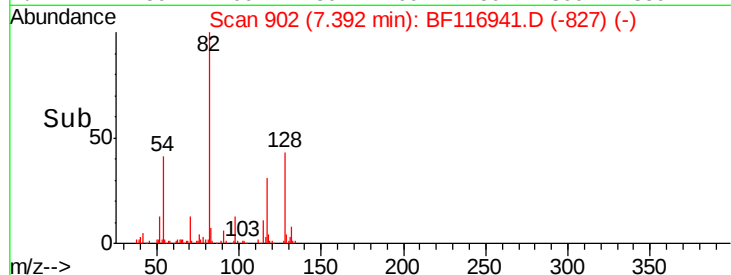
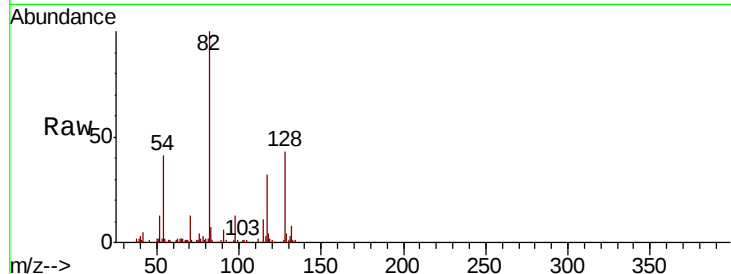
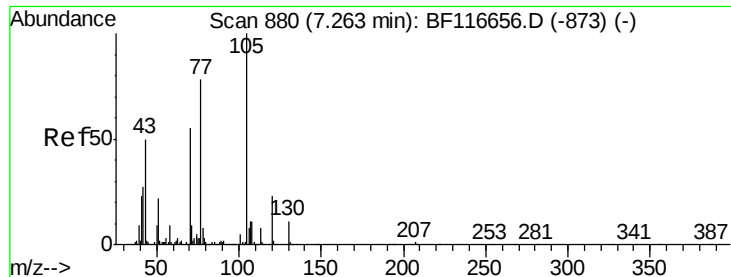


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

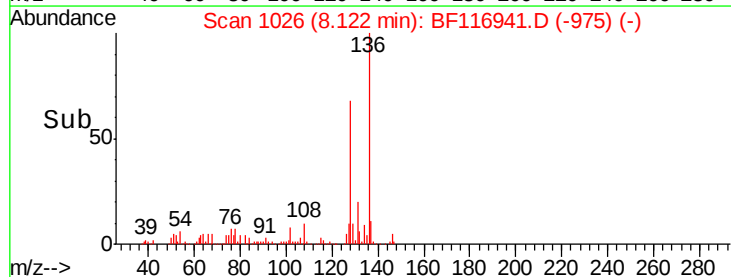
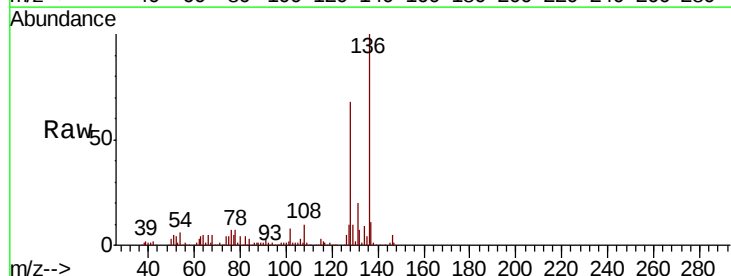
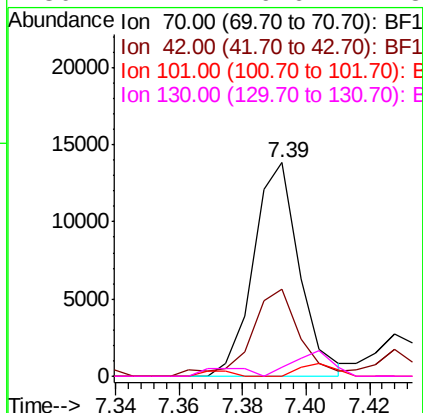




#19
n-Nitroso-di-n-propylamine
Concen: 3.184 ng
RT: 7.39 min Scan# 902
Delta R.T. 0.14 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

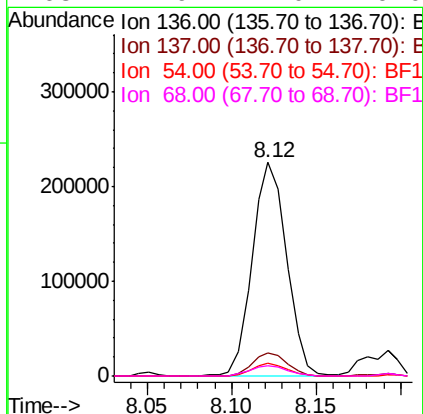
Instrument :
BNA_F
ClientSampleId :

Tot Ion:	70	Resp:	13958
Ion	Ratio	Lower	Upper
70	100		
42	40.6	43.5	65.3#
101	0.0	7.8	11.6#
130	4.4	16.6	24.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1026
Delta R.T. 0.00 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Tgt Ion:	136	Resp:	320134
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	5.9	4.8	7.2
68	4.9	4.0	6.0

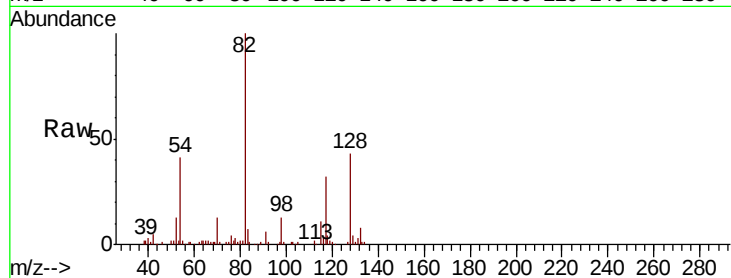




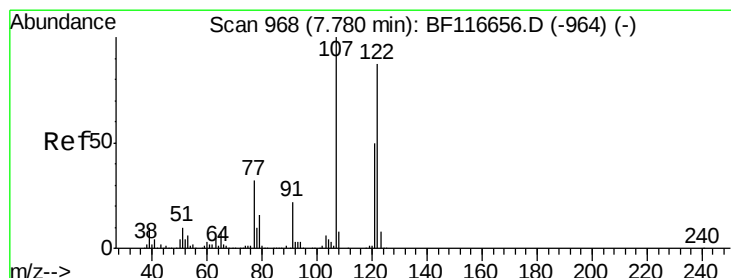
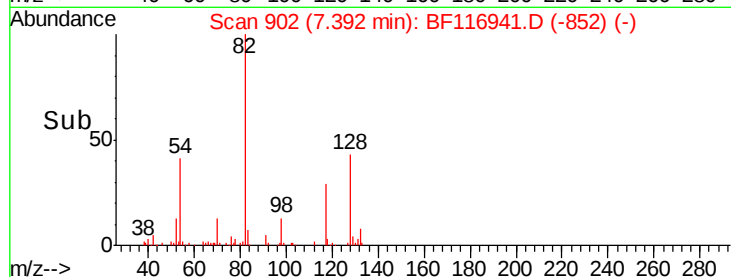
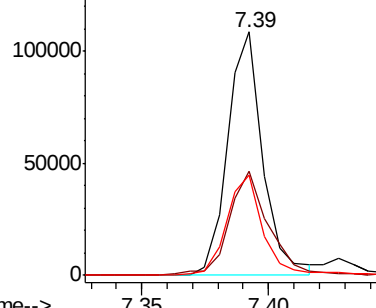
#23
 Nitrobenzene-d5
 Concen: 18.634 ng
 RT: 7.39 min Scan# 902
 Delta R.T. -0.01 min
 Lab File: BF116941.D
 Acq: 11 Sep 2019 00:14

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:	82	Resp:	104494
Ion	Ratio	Lower	Upper
82	100		
128	42.8	32.8	49.2
54	41.0	36.9	55.3

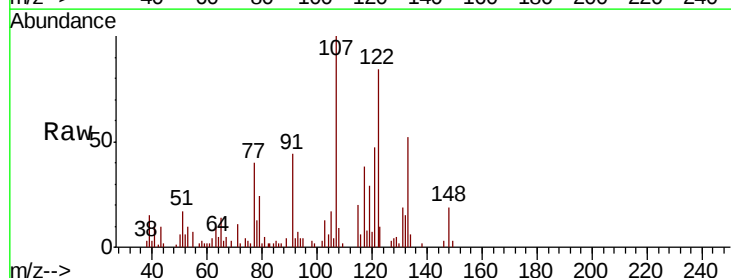


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

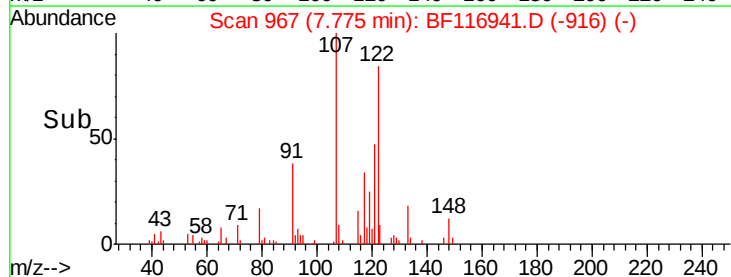
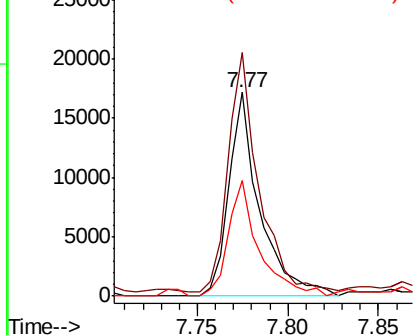


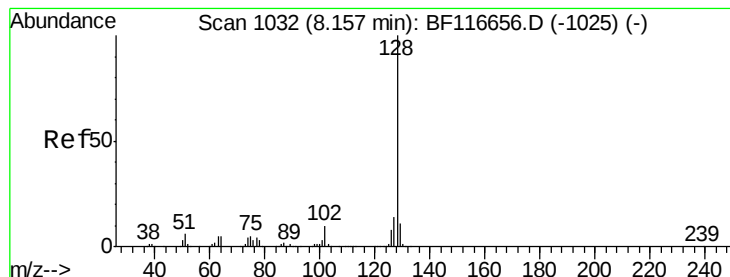
#27
 2,4-Dimethylphenol
 Concen: 4.770 ng
 RT: 7.77 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: BF116941.D
 Acq: 11 Sep 2019 00:14

Tgt Ion:	122	Resp:	20425
Ion	Ratio	Lower	Upper
122	100		
107	119.6	98.1	147.1
121	56.5	47.3	70.9



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





#31

Naphthalene

Concen: 363.058 ng

RT: 8.16 min Scan# 1032

Delta R.T. 0.02 min

Lab File: BF116941.D

Acq: 11 Sep 2019 00:14

Instrument :

BNA_F

ClientSampleId :

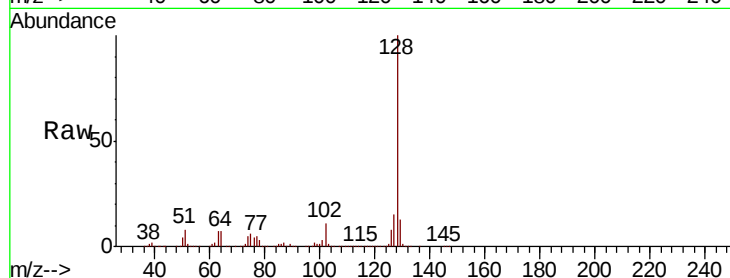
Tot Ion:128 Resp: 5526713

Ion Ratio Lower Upper

128 100

129 12.8 8.6 13.0

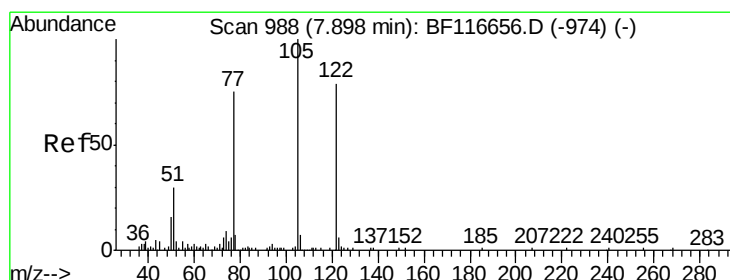
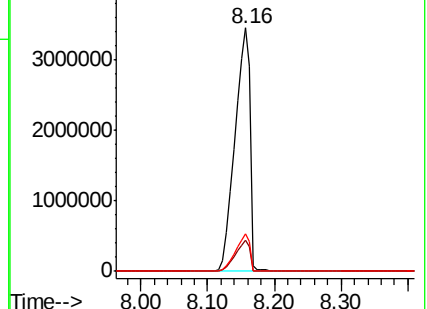
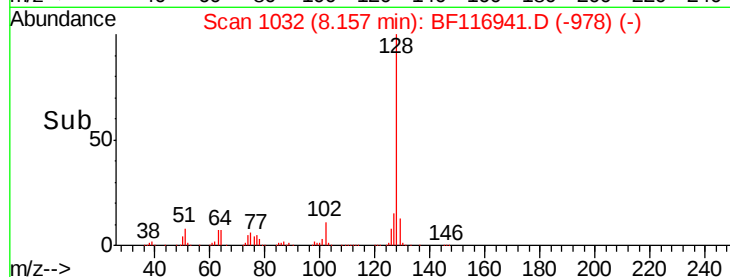
127 15.3 10.4 15.6



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



#32

Benzoic acid

Concen: 24.667 ng

RT: 7.90 min Scan# 989

Delta R.T. 0.01 min

Lab File: BF116941.D

Acq: 11 Sep 2019 00:14

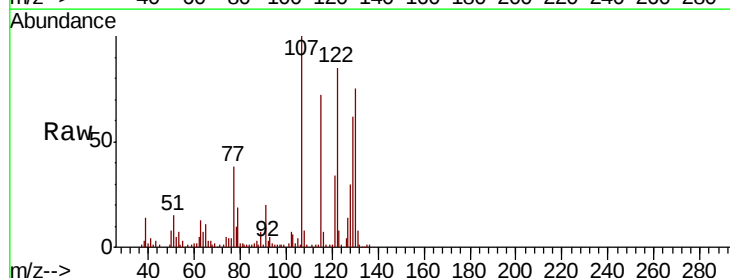
Tgt Ion:122 Resp: 59644

Ion Ratio Lower Upper

122 100

105 4.6 110.0 150.0#

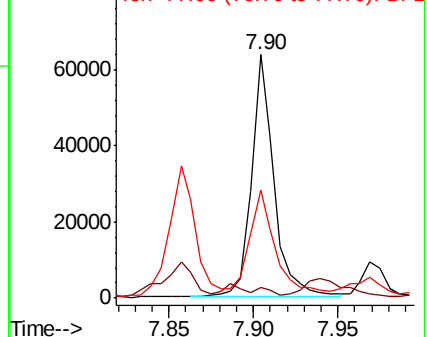
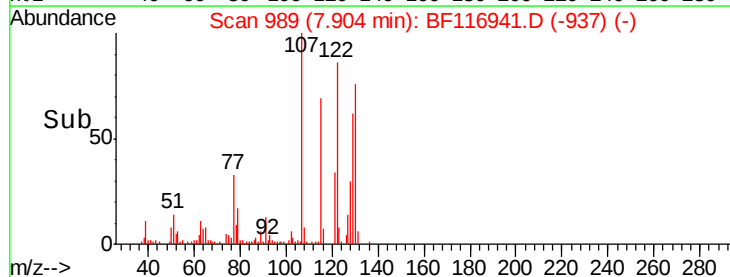
77 44.1 81.7 121.7#

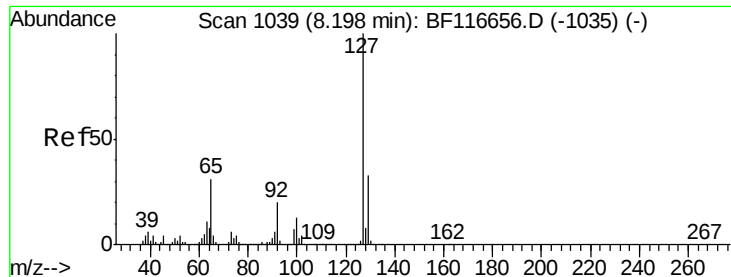


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

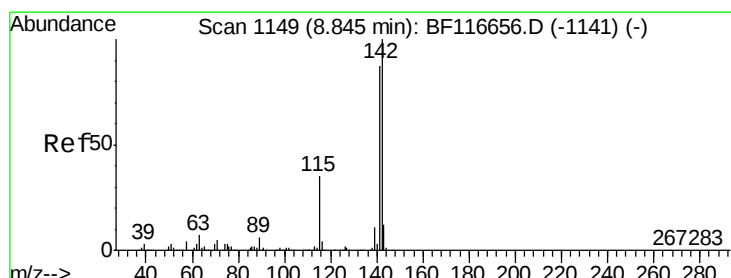
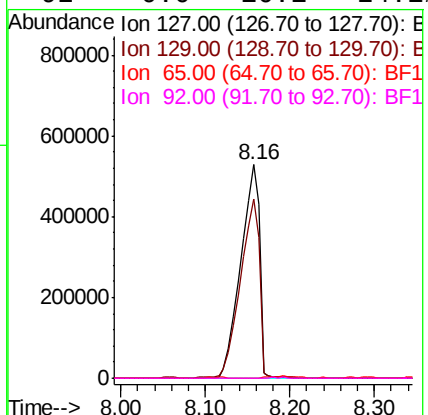
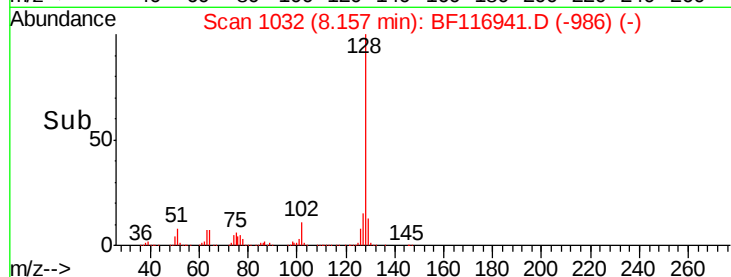
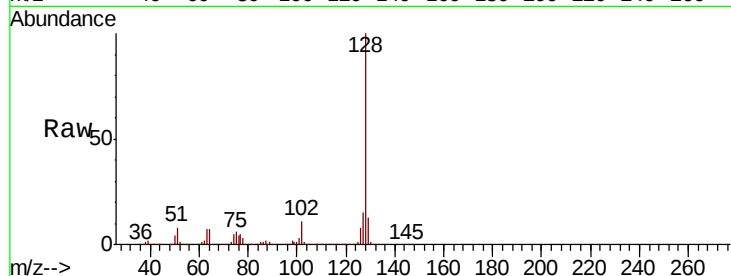




#33
4-Chloroaniline
Concen: 116.086 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.03 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

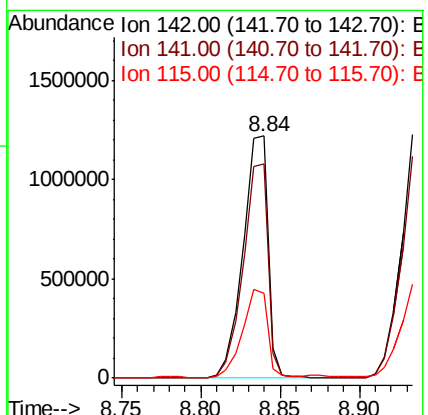
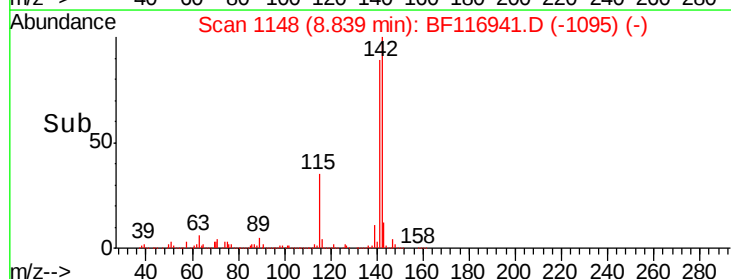
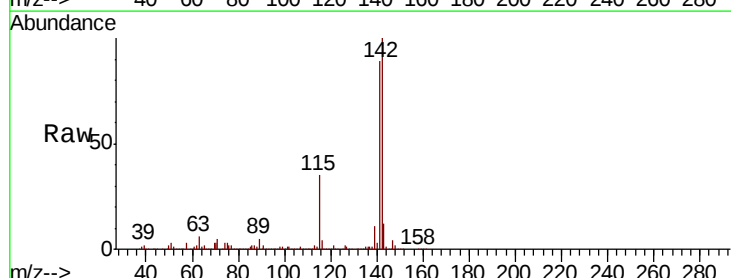
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BNA_F
ClientSampleId :

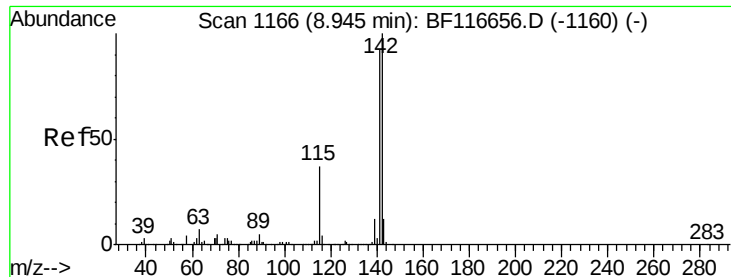
Tot Ion:127	Resp:	804400
Ion Ratio	Lower	Upper
127	100	
129	83.6	26.2 39.2#
65	0.0	26.0 39.0#
92	0.0	16.1 24.1#



#37
2-Methylnaphthalene
Concen: 131.727 ng
RT: 8.84 min Scan# 1148
Delta R.T. 0.01 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Tgt Ion:142	Resp:	1334190
Ion Ratio	Lower	Upper
142	100	
141	88.7	72.6 109.0
115	35.3	29.8 44.6

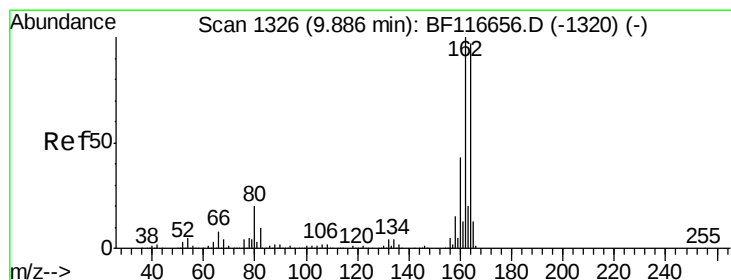
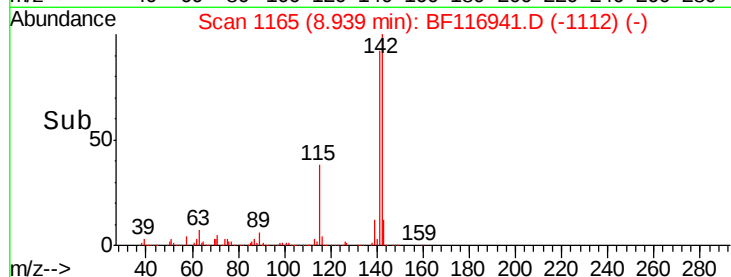
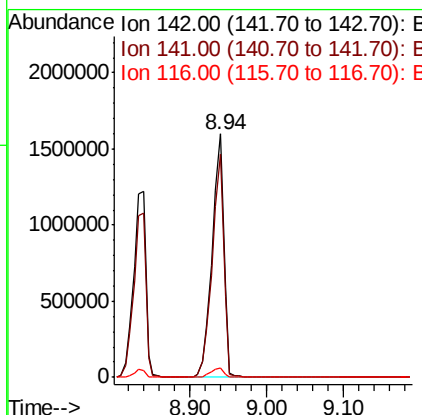
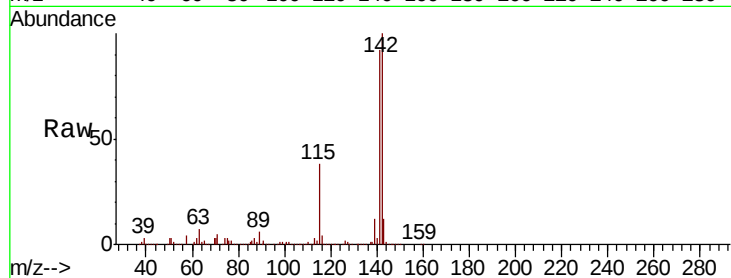




#38
1-Methylnaphthalene
Concen: 173.079 ng
RT: 8.94 min Scan# 1165
Delta R.T. 0.01 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

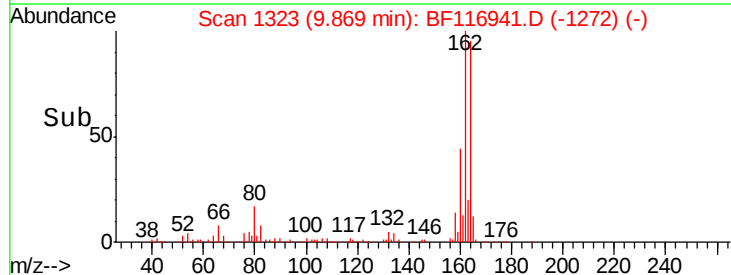
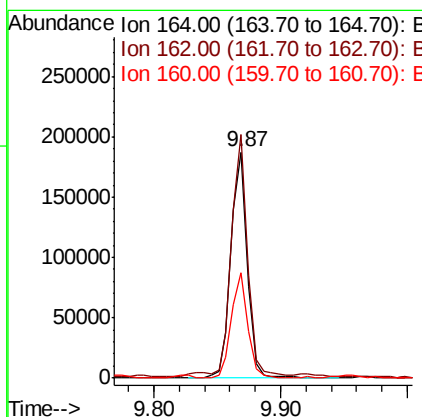
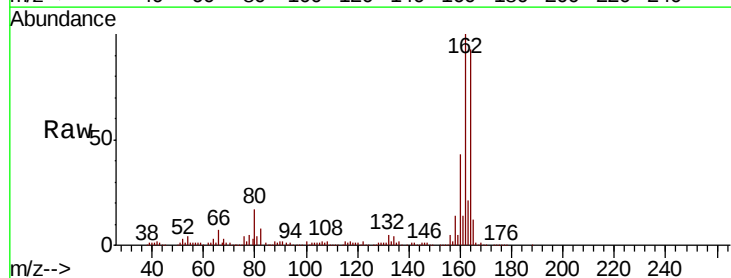
Instrument :
BNA_F
ClientSampleId :

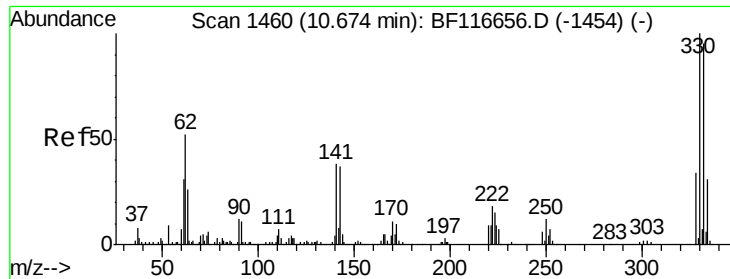
Tot Ion:142 Resp: 1654841
Ion Ratio Lower Upper
142 100
141 91.6 73.9 110.9
116 4.0 3.0 4.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1323
Delta R.T. 0.00 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Tgt Ion:164 Resp: 166513
Ion Ratio Lower Upper
164 100
162 107.7 81.4 122.0
160 46.7 35.4 53.2

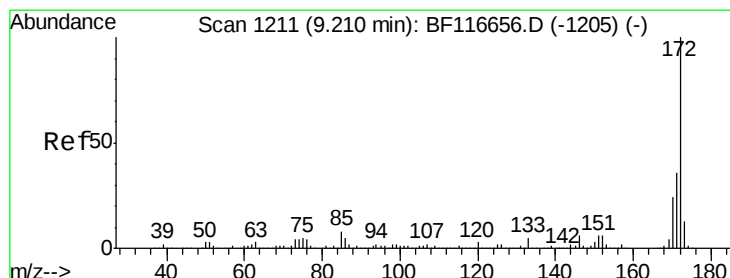
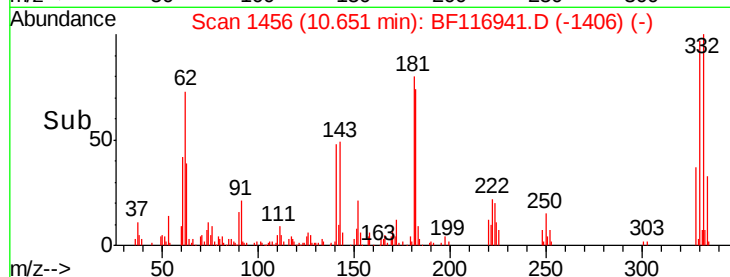
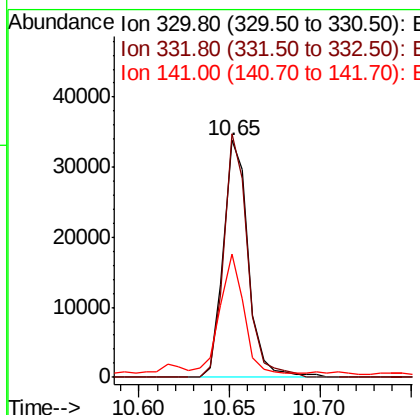
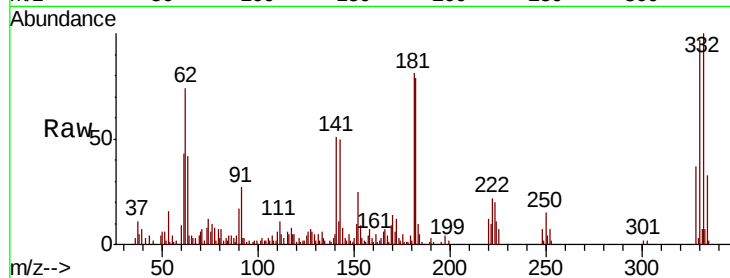




#42
 2,4,6-Tribromophenol
 Concen: 29.205 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. -0.01 min
 Lab File: BF116941.D
 Acq: 11 Sep 2019 00:14

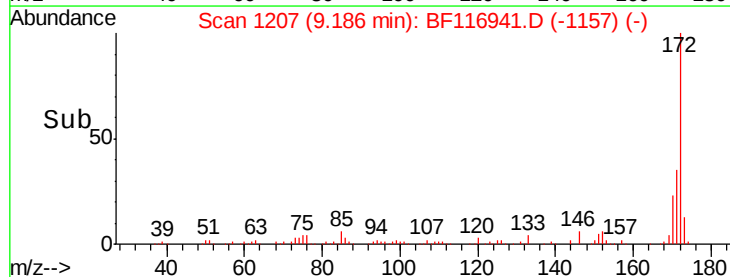
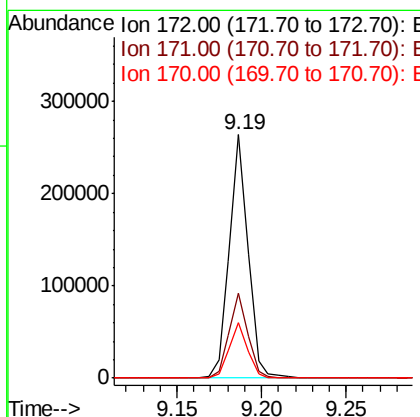
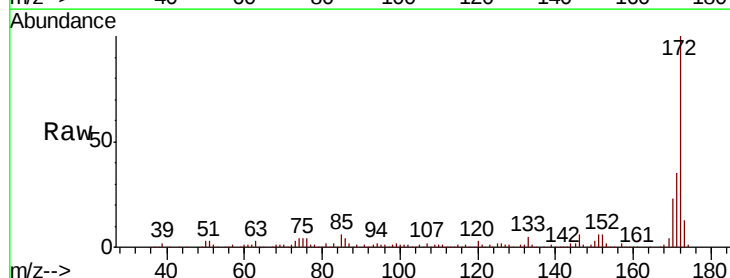
Instrument :
 BNA_F
 ClientSampleId :

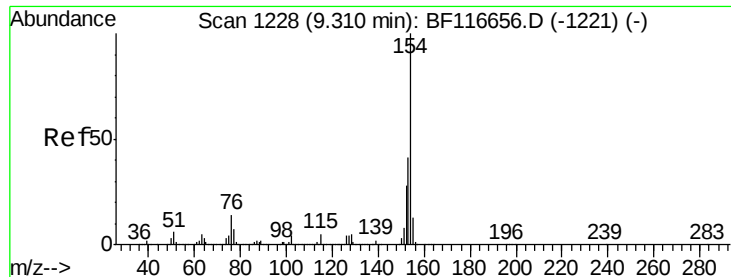
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.9	115.3
141	47.0	31.4	47.2



#45
 2-Fluorobiphenyl
 Concen: 20.642 ng
 RT: 9.19 min Scan# 1207
 Delta R.T. -0.01 min
 Lab File: BF116941.D
 Acq: 11 Sep 2019 00:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	27.8	41.6
170	22.8	18.9	28.3

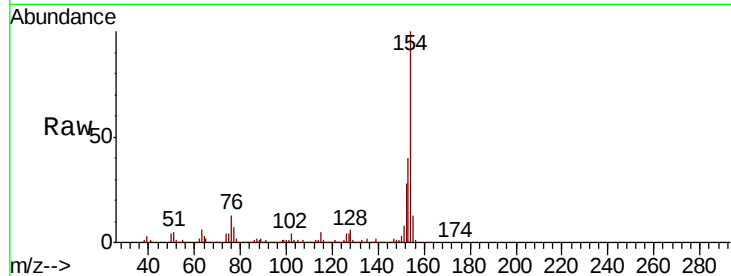




#46
 1,1'-Biphenyl
 Concen: 25.123 ng
 RT: 9.29 min Scan# 1224
 Delta R.T. -0.01 min
 Lab File: BF116941.D
 Acq: 11 Sep 2019 00:14

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
154	100		
153	39.5	21.2	61.2
76	12.9	0.0	30.9

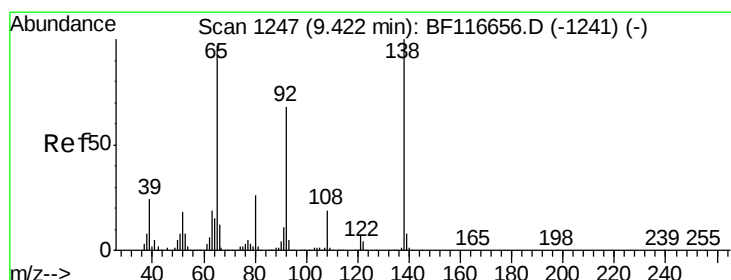
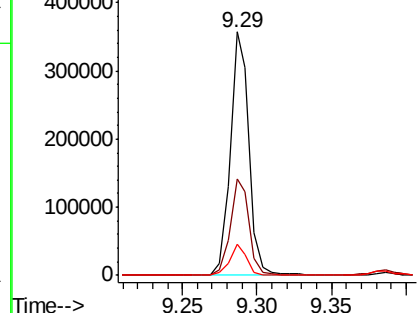
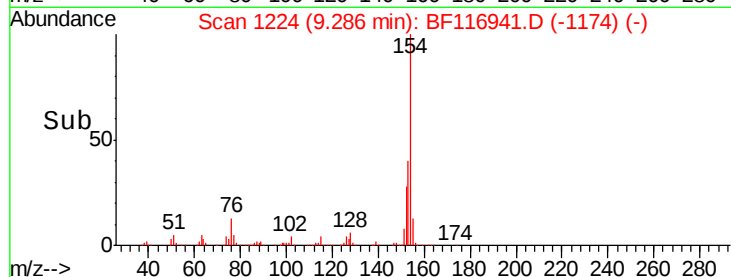


Abundance

Ion 154.00 (153.70 to 154.70): E

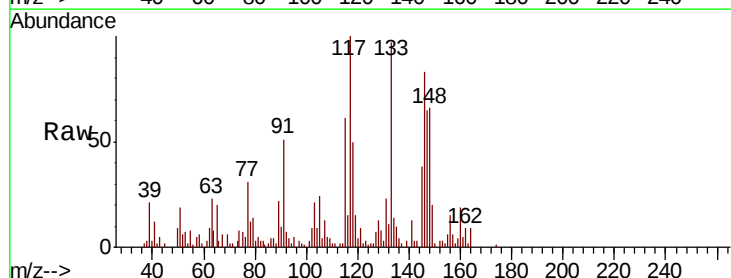
Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1



#48
 2-Nitroaniline
 Concen: 3.225 ng
 RT: 9.43 min Scan# 1249
 Delta R.T. 0.02 min
 Lab File: BF116941.D
 Acq: 11 Sep 2019 00:14

Tgt Ion	Ratio	Lower	Upper
65	100		
92	37.4	57.1	85.7#
138	0.0	88.2	132.2#

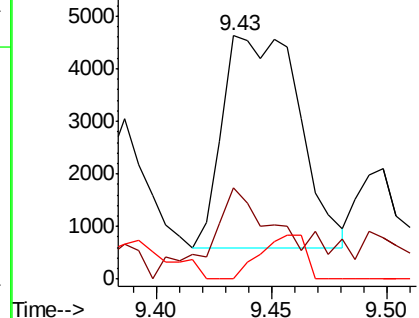
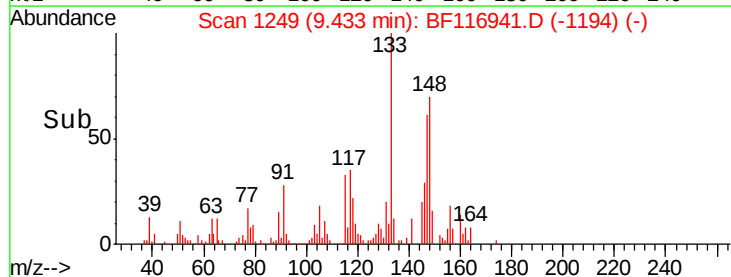


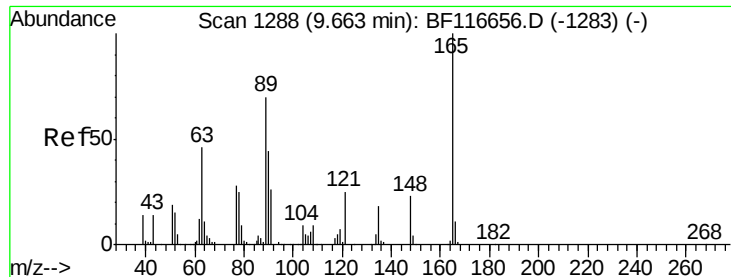
Abundance

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

Ion 138.00 (137.70 to 138.70): E

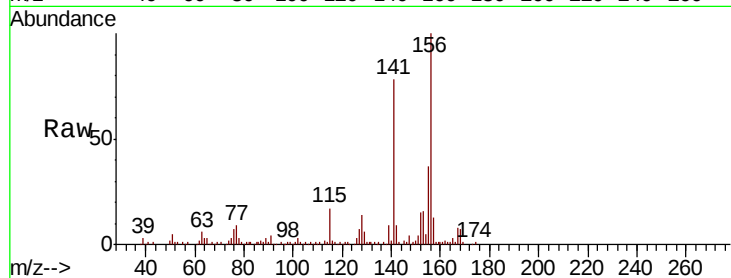




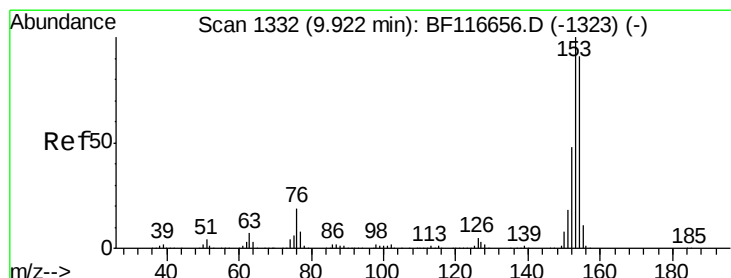
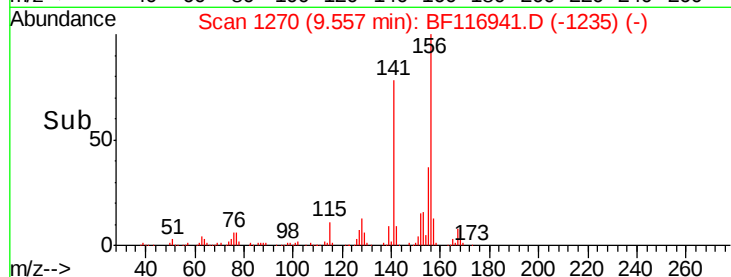
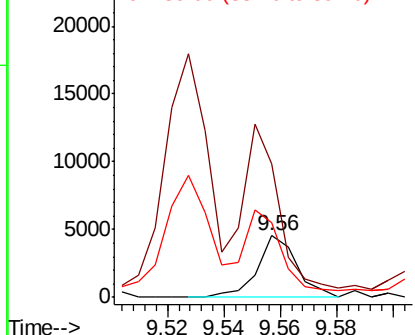
#51
2,6-Dinitrotoluene
Concen: 2.010 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.09 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Instrument :
BNA_F
ClientSampled :

Tot Ion:165 Resp: 4409
Ion Ratio Lower Upper
165 100
63 217.2 47.3 70.9#
89 121.0 52.5 78.7#

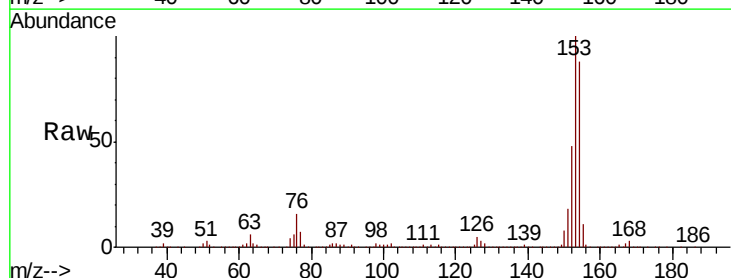


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

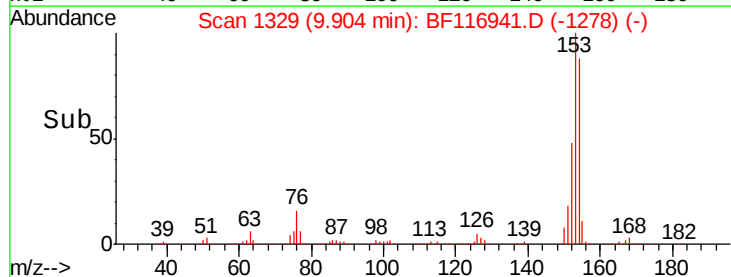
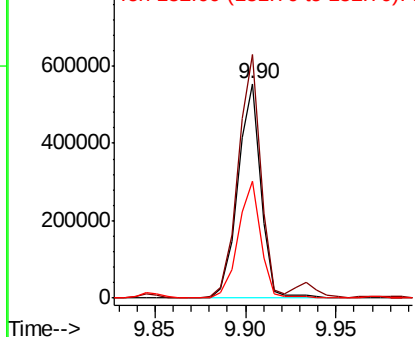


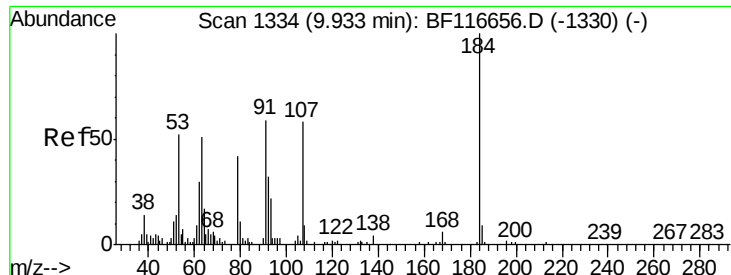
#52
Acenaphthene
Concen: 51.931 ng
RT: 9.90 min Scan# 1329
Delta R.T. 0.00 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Tgt Ion:154 Resp: 482702
Ion Ratio Lower Upper
154 100
153 113.5 89.5 134.3
152 54.4 41.9 62.9



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

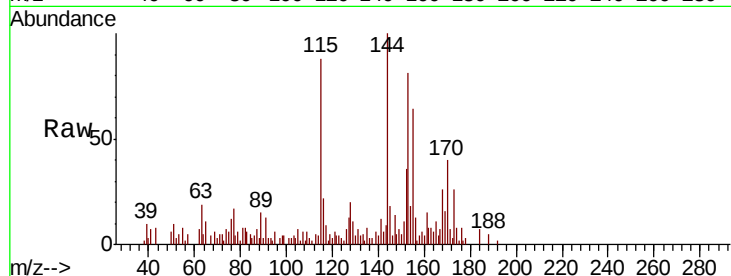




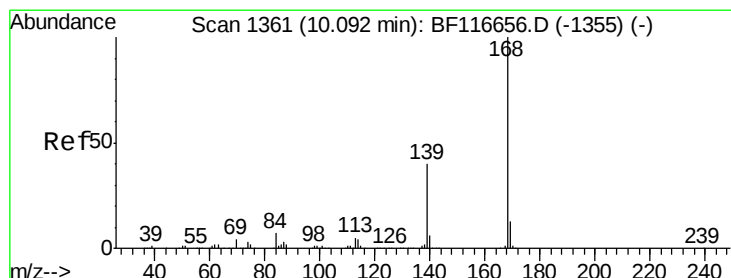
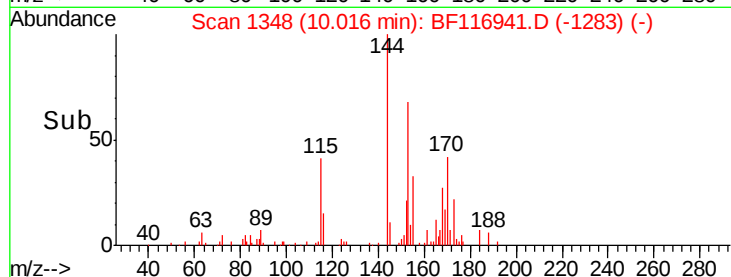
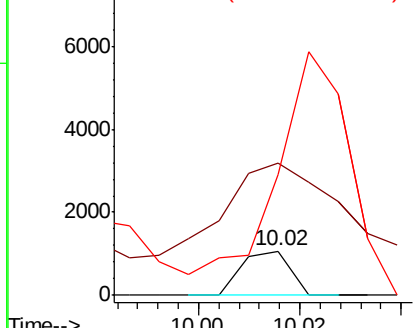
#54
2,4-Dinitrophenol
Concen: 9.852 ng
RT: 10.02 min Scan# 1348
Delta R.T. 0.08 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:184 Resp: 712
Ion Ratio Lower Upper
184 100
63 298.4 52.2 78.2#
154 272.3 60.8 91.2#

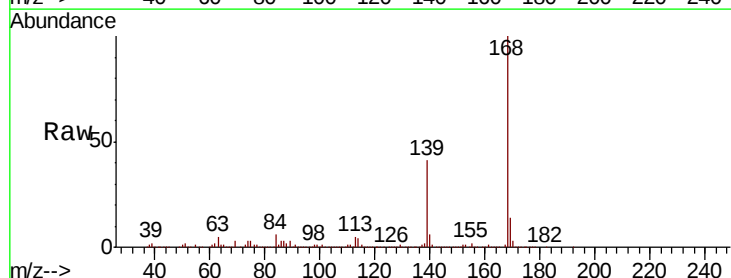


Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 154.00 (153.70 to 154.70): E

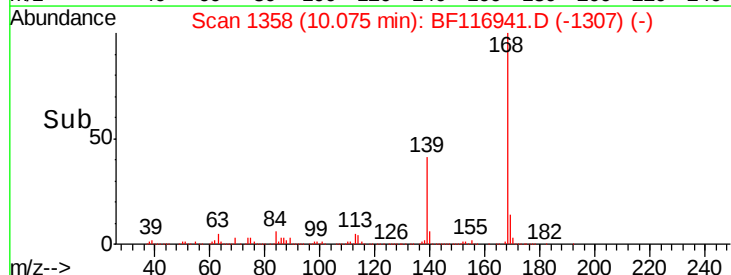
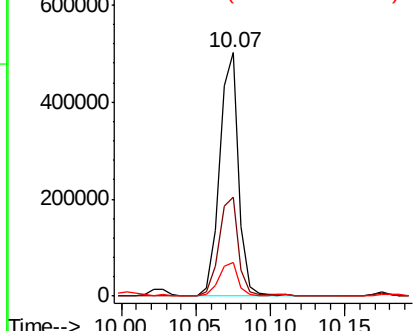


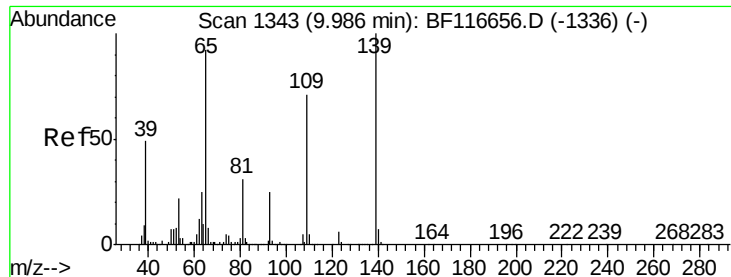
#55
Dibenzofuran
Concen: 34.137 ng
RT: 10.07 min Scan# 1358
Delta R.T. 0.00 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Tgt Ion:168 Resp: 447310
Ion Ratio Lower Upper
168 100
139 40.7 31.5 47.3
169 13.9 10.3 15.5



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

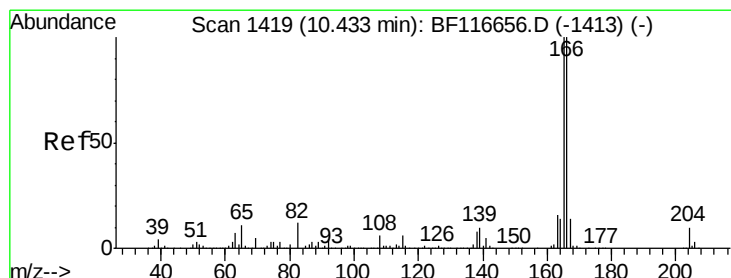
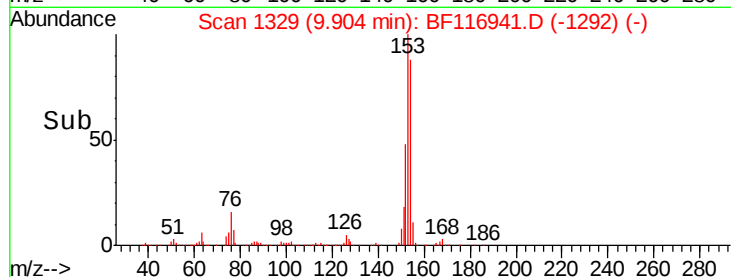
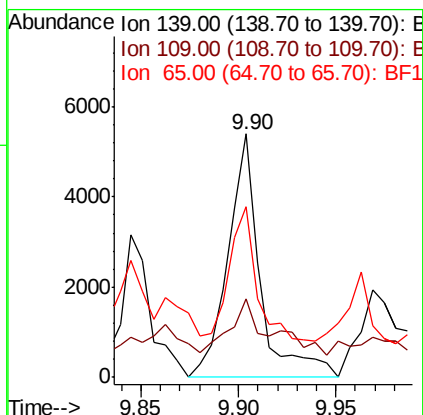
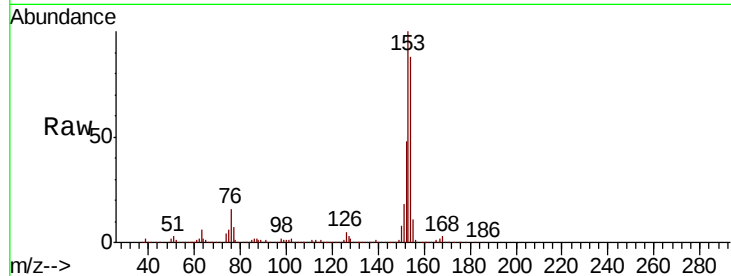




#56
4-Nitrophenol
Concen: 3.266 ng
RT: 9.90 min Scan# 1329
Delta R.T. -0.08 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

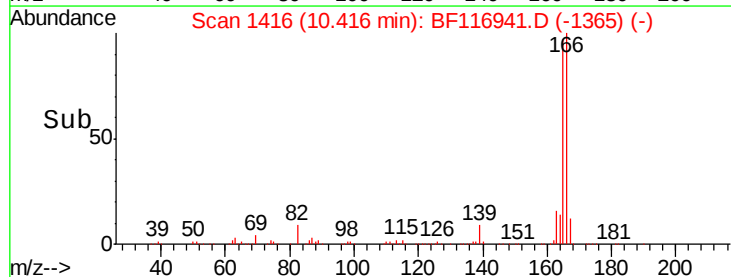
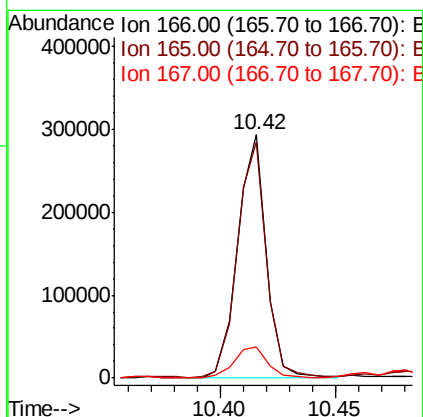
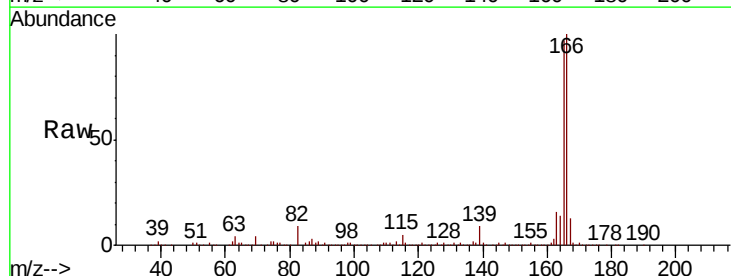
Instrument :
BNA_F
ClientSampleId :

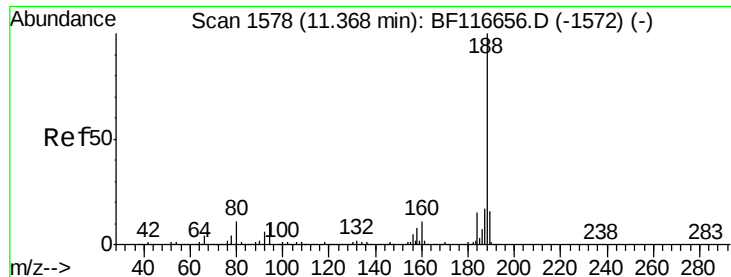
Tot Ion:139 Resp: 6156
Ion Ratio Lower Upper
139 100
109 32.4 61.7 101.7#
65 70.1 89.1 129.1#



#58
Fluorene
Concen: 25.052 ng
RT: 10.42 min Scan# 1416
Delta R.T. 0.00 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Tgt Ion:166 Resp: 250122
Ion Ratio Lower Upper
166 100
165 97.0 78.8 118.2
167 13.0 10.0 15.0

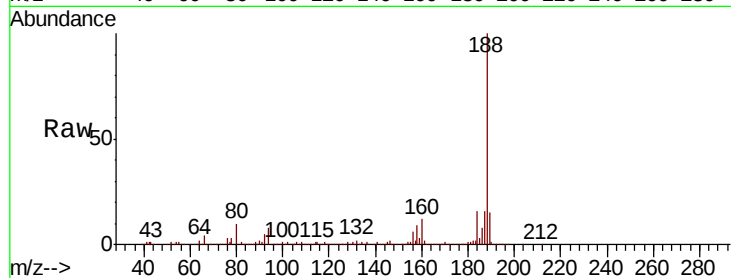




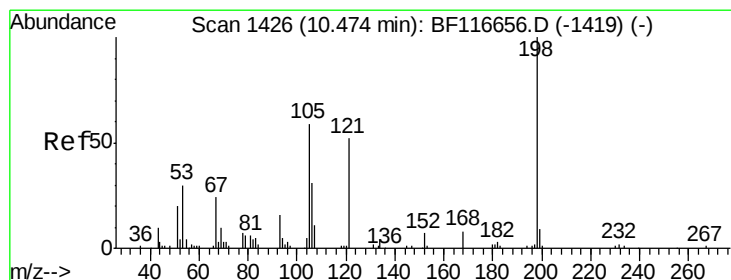
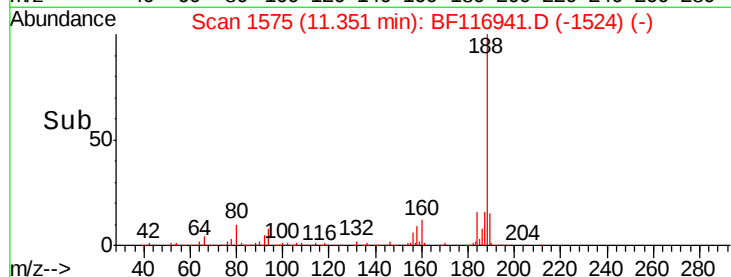
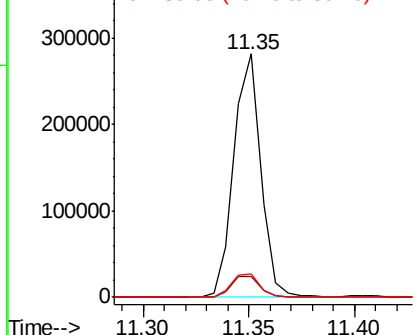
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1575
Delta R.T. 0.00 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 247448
Ion Ratio Lower Upper
188 100
94 8.4 7.3 10.9
80 9.6 8.4 12.6

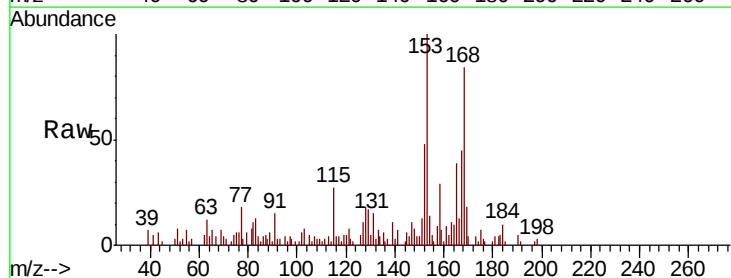


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

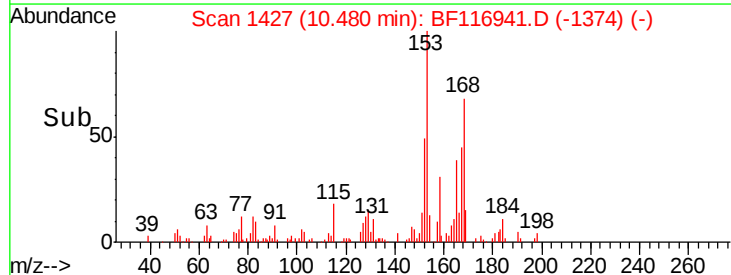
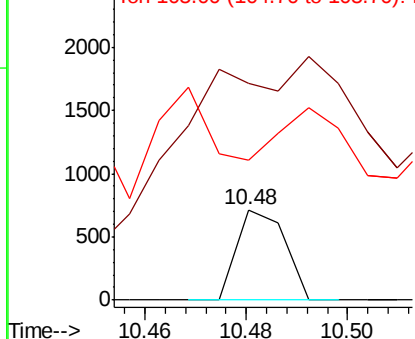


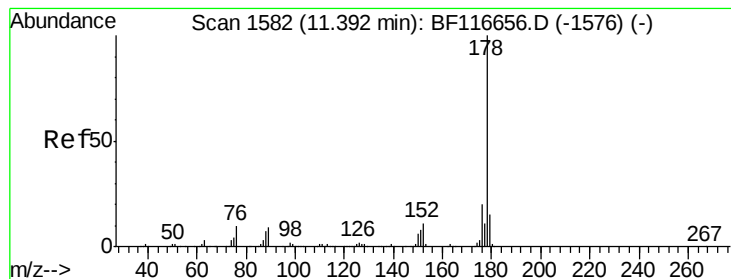
#65
4,6-Dinitro-2-methylphenol
Concen: 7.886 ng
RT: 10.48 min Scan# 1427
Delta R.T. 0.01 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Tgt Ion:198 Resp: 469
Ion Ratio Lower Upper
198 100
51 239.5 18.4 58.4#
105 154.1 22.9 62.9#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF1
Ion 105.00 (104.70 to 105.70): E





#71

Phenanthrene

Concen: 19.428 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF116941.D

Acq: 11 Sep 2019 00:14

Instrument :

BNA_F

ClientSampleId :

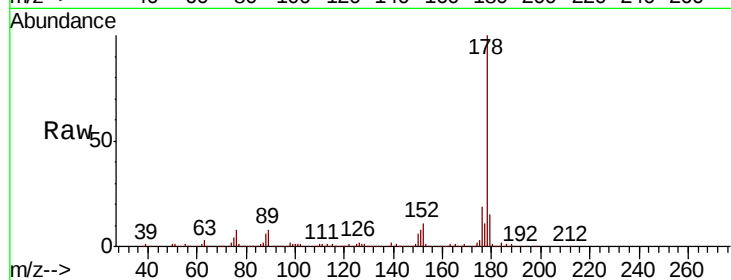
Tot Ion:178 Resp: 267606

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.0

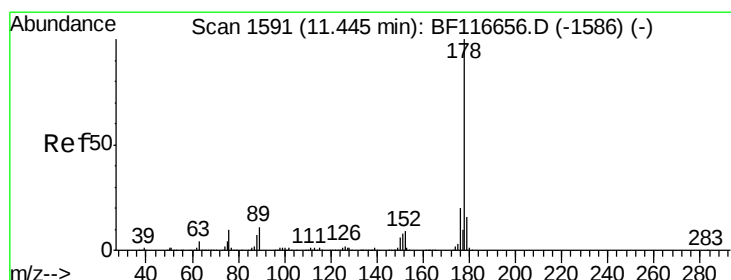
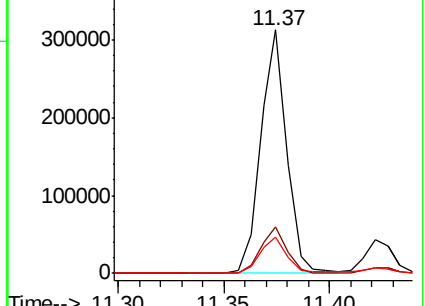
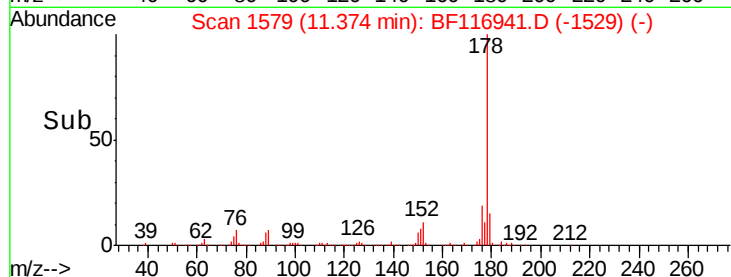
179 15.1 12.2 18.2



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



#72

Anthracene

Concen: 2.724 ng

RT: 11.42 min Scan# 1587

Delta R.T. -0.01 min

Lab File: BF116941.D

Acq: 11 Sep 2019 00:14

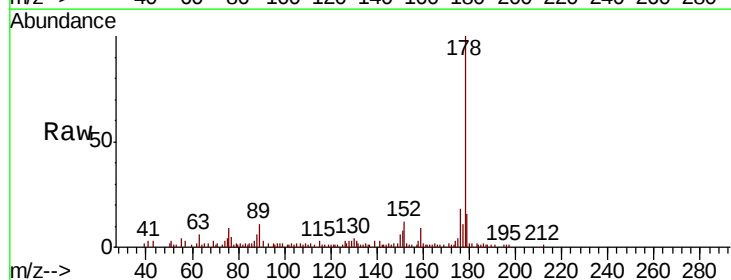
Tgt Ion:178 Resp: 37766

Ion Ratio Lower Upper

178 100

176 17.8 15.4 23.0

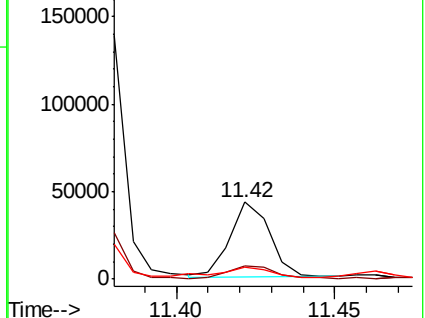
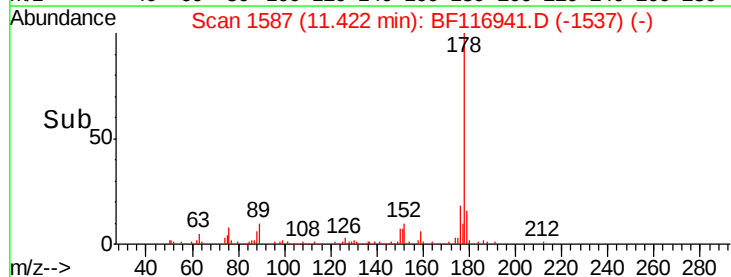
179 15.6 12.5 18.7

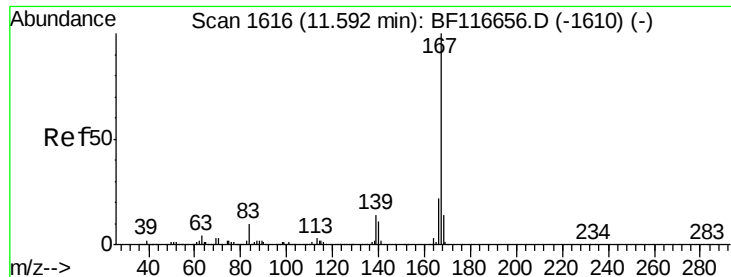


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

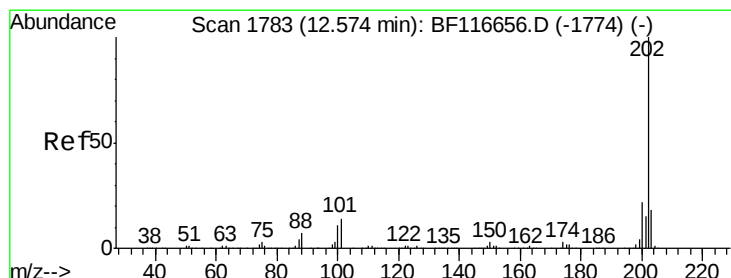
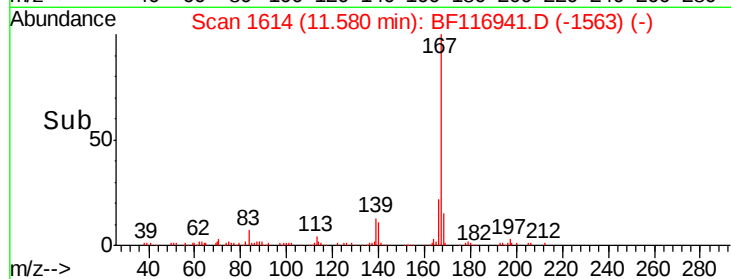
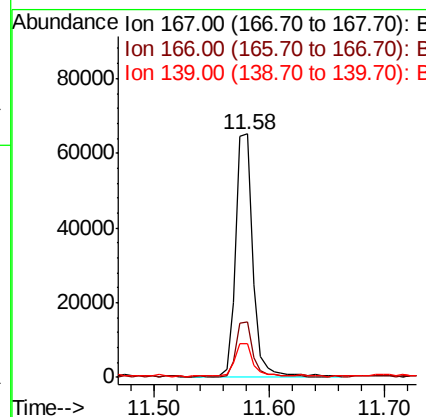
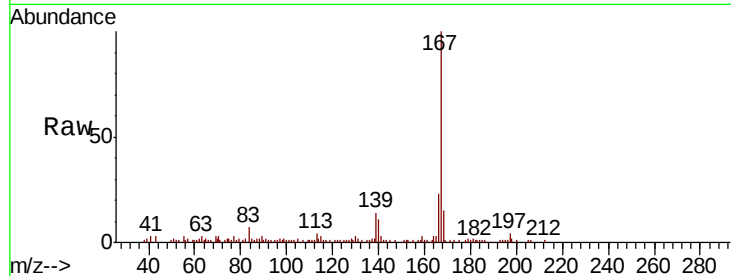




#73
 Carbazole
 Concen: 5.168 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. 0.00 min
 Lab File: BF116941.D
 Acq: 11 Sep 2019 00:14

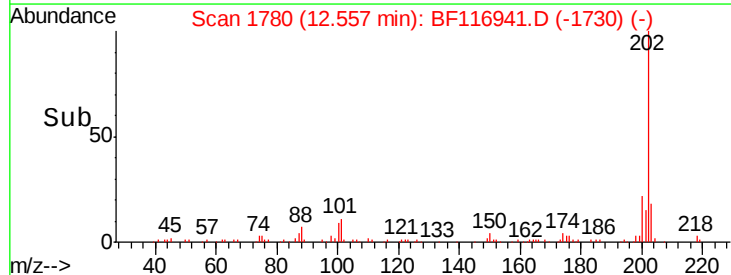
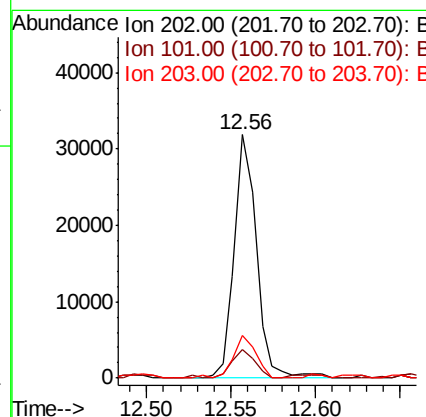
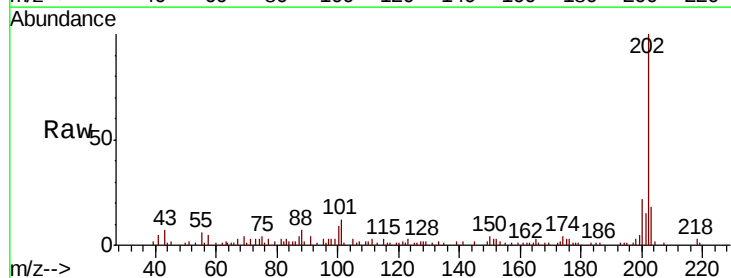
Instrument :
 BNA_F
 ClientSampleId :

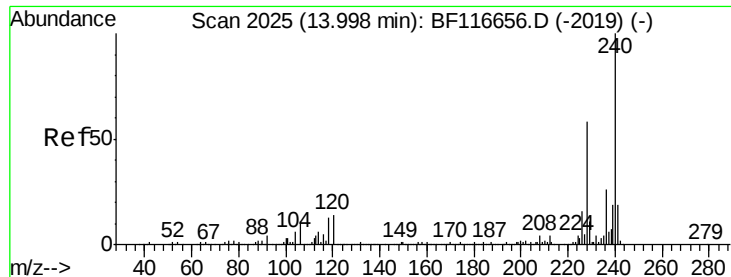
Tot Ion	Ratio	Lower	Upper
167	100		
166	23.0	17.8	26.6
139	13.9	11.1	16.7



#75
 Fluoranthene
 Concen: 2.164 ng
 RT: 12.56 min Scan# 1780
 Delta R.T. -0.01 min
 Lab File: BF116941.D
 Acq: 11 Sep 2019 00:14

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	31.3
203	17.8	0.0	37.6

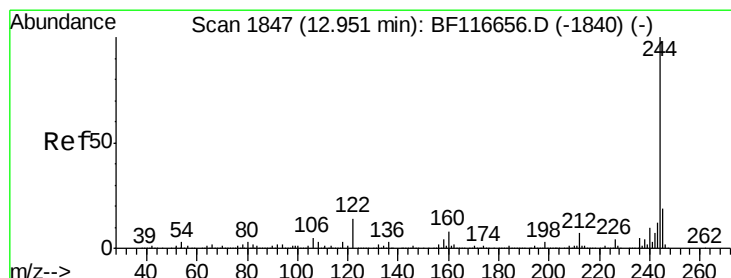
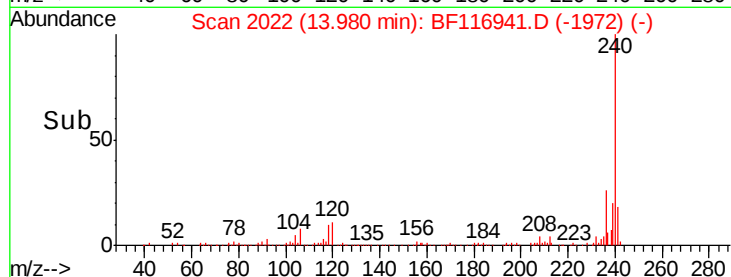
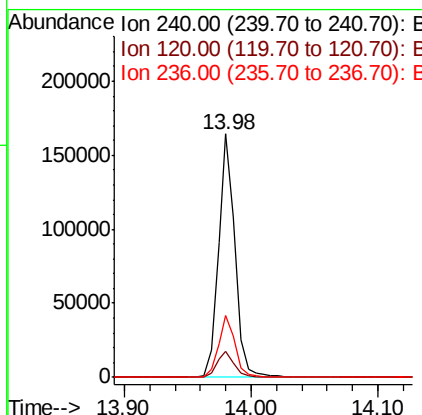
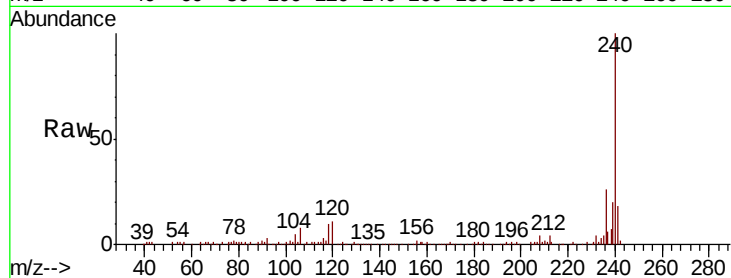




#76
 Chrvsene-d12
 Concen: 20.000 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. -0.01 min
 Lab File: BF116941.D
 Acq: 11 Sep 2019 00:14

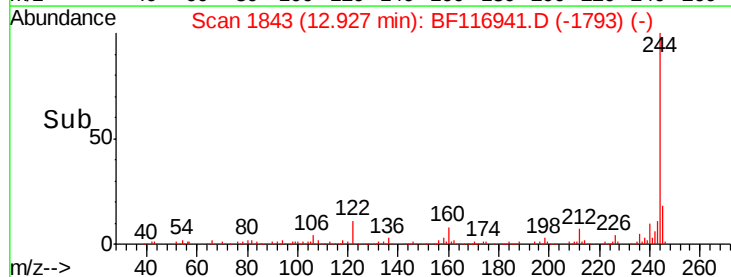
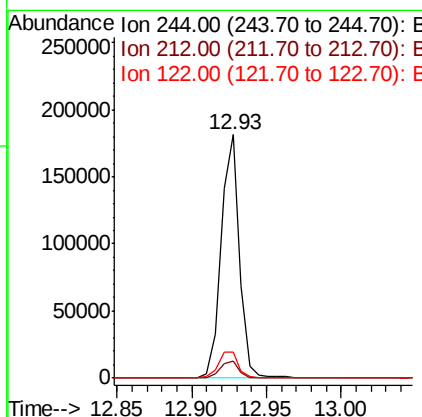
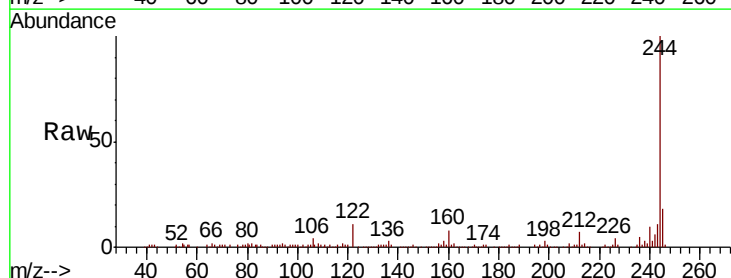
Instrument :
 BNA_F
 ClientSampleId :

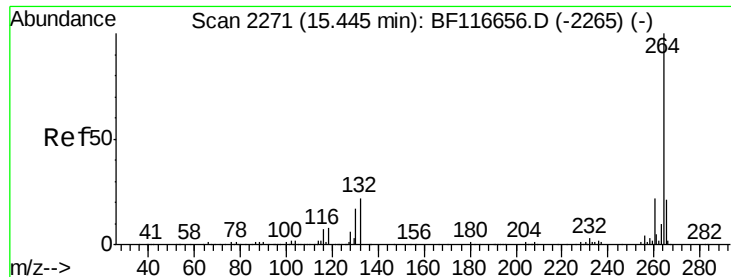
Tot Ion:240 Resp: 149609
 Ion Ratio Lower Upper
 240 100
 120 10.9 9.1 13.7
 236 25.6 21.1 31.7



#79
 Terphenyl-d14
 Concen: 19.354 ng
 RT: 12.93 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BF116941.D
 Acq: 11 Sep 2019 00:14

Tgt Ion:244 Resp: 156524
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.1 9.1
 122 10.9 10.2 15.4





#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.00 min
Lab File: BF116941.D
Acq: 11 Sep 2019 00:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.0	18.3	27.5
265	21.3	16.5	24.7

