

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090119\
 Data File : BF116762.D
 Acq On : 2 Sep 2019 00:10
 Operator : HP/JU
 Sample : K4618-03DL 25X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 02 05:29:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

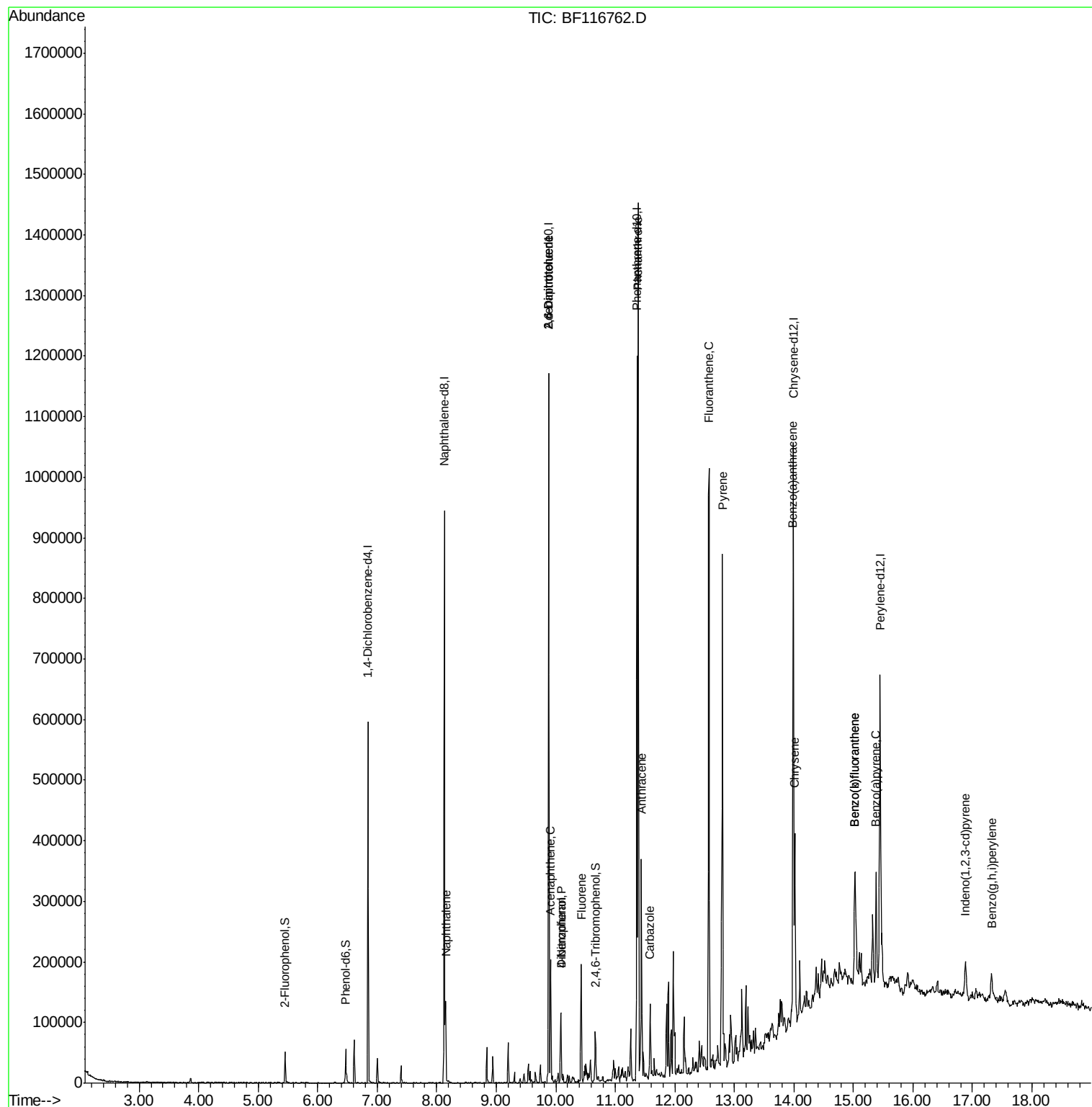
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	83368	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	380434	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	217656	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	376444	20.00	ng	0.00
76) Chrysene-d12	13.99	240	247131	20.00	ng	0.00
87) Perylene-d12	15.44	264	228979	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	16508	3.21	ng	-0.01
7) Phenol-d6	6.47	99	23849	3.53	ng	-0.01
23) Nitrobenzene-d5	7.40	82	10571	1.59	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	3248	2.23	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	19029	1.47	ng	-0.01
79) Terphenyl-d14	12.94	244	20176	1.51	ng	-0.01
Target Compounds						
31) Naphthalene	8.15	128	55523	3.069	ng	Qvalue 98
51) 2,6-Dinitrotoluene	9.88	165	28834	10.057	ng	# 21
52) Acenaphthene	9.91	154	40781	3.356	ng	99
55) Dibenzofuran	10.09	168	45575	2.661	ng	95
56) 4-Nitrophenol	10.08	139	16611	6.743	ng	# 3
57) 2,4-Dinitrotoluene	9.88	165	28834	8.225	ng	# 21
58) Fluorene	10.43	166	54800	4.199	ng	100
71) Phenanthrene	11.39	178	488784	23.325	ng	99
72) Anthracene	11.44	178	140362	6.654	ng	99
73) Carbazole	11.59	167	47051	2.342	ng	97
75) Fluoranthene	12.57	202	392124	19.041	ng	100
78) Pyrene	12.80	202	349929	15.929	ng	99
81) Benzo(a)anthracene	13.98	228	124595	7.966	ng	100
83) Chrysene	14.02	228	105769	6.564	ng	96
86) Indeno(1,2,3-cd)pyrene	16.89	276	33272	2.571	ng	96
88) Benzo(b)fluoranthene	15.03	252	134703	9.730	ng	# 95
89) Benzo(k)fluoranthene	15.03	252	134703	10.672	ng	# 95
90) Benzo(a)pyrene	15.38	252	77820	6.461	ng	97
92) Benzo(a,h,i)perylene	17.32	276	33680	3.132	ng	# 88

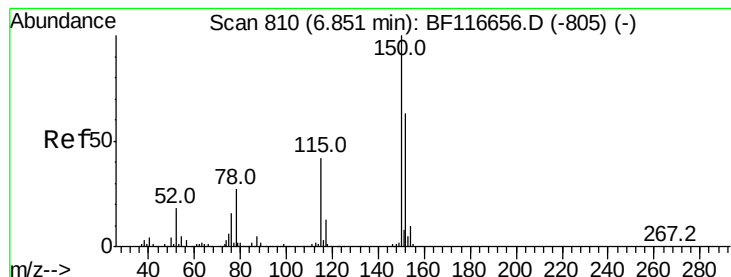
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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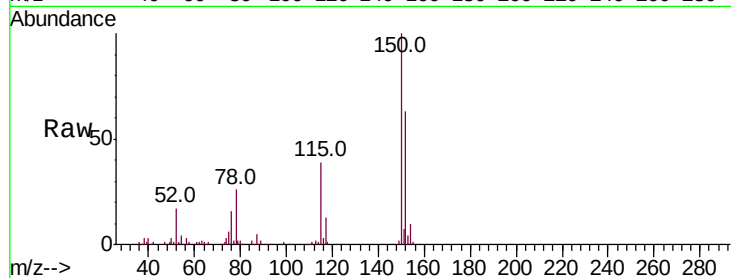


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.3	124.4	186.6
115	62.4	49.9	74.9

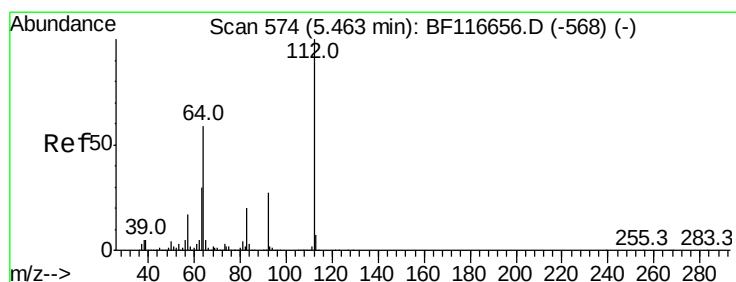
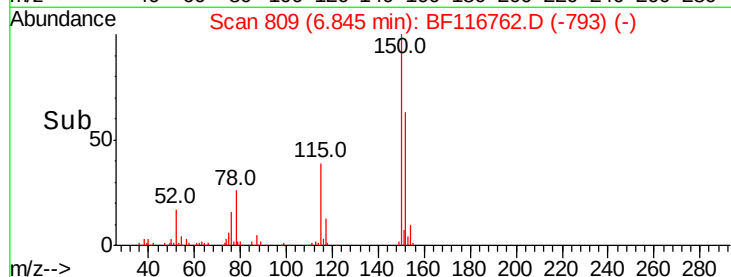
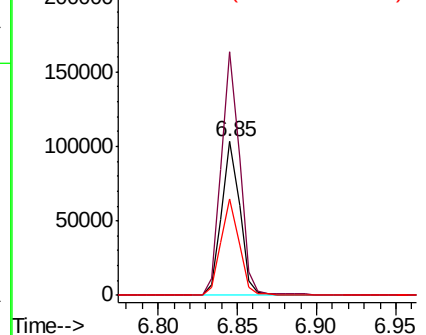


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

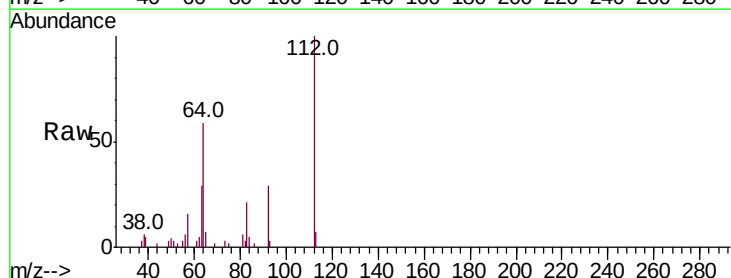
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 3.208 ng
RT: 5.45 min Scan# 572
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	47.1	70.7
63	29.1	24.9	37.3

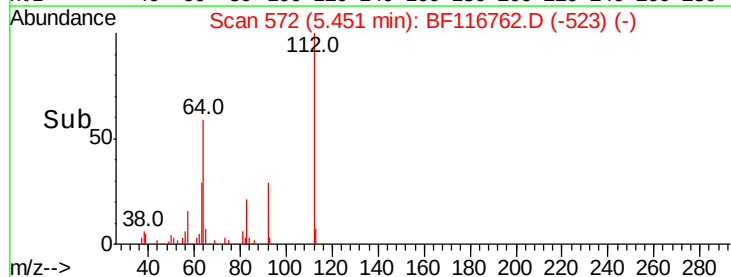
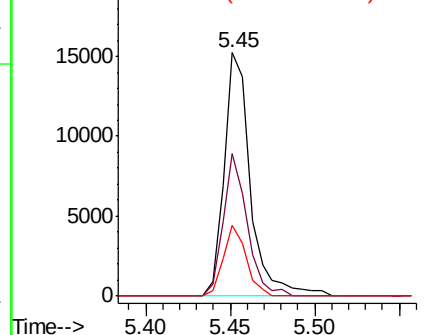


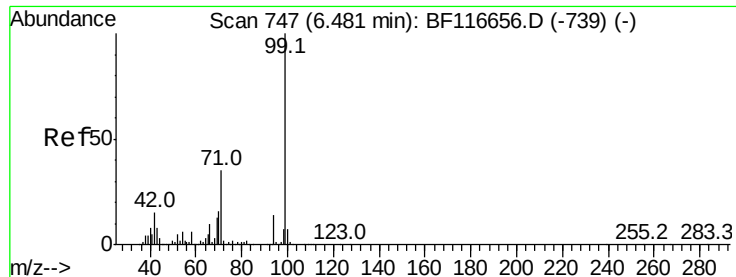
Abundance

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: 3.529 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Instrument :

BNA_F

ClientSampleId :

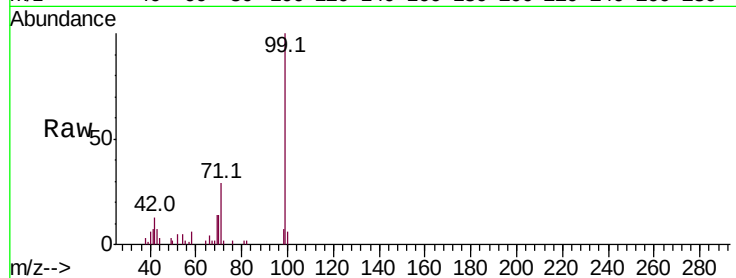
Tot Ion: 99 Resp: 23849

Ion Ratio Lower Upper

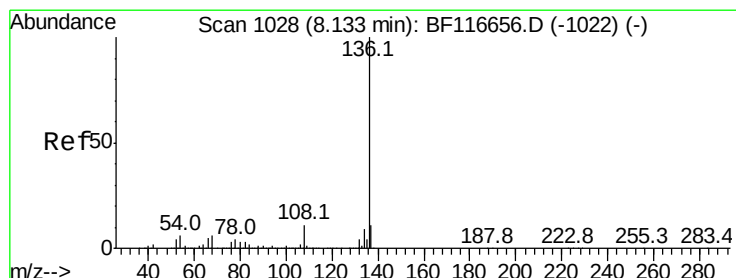
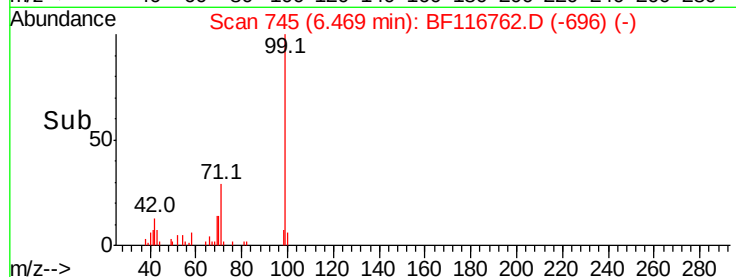
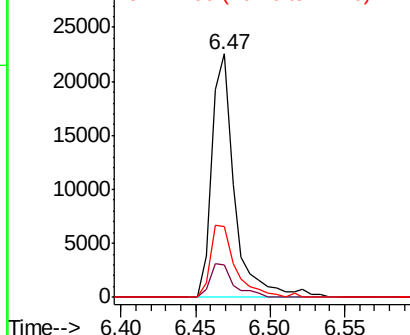
99 100

42 13.3 13.7 20.5#

71 29.3 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Tgt Ion: 136 Resp: 380434

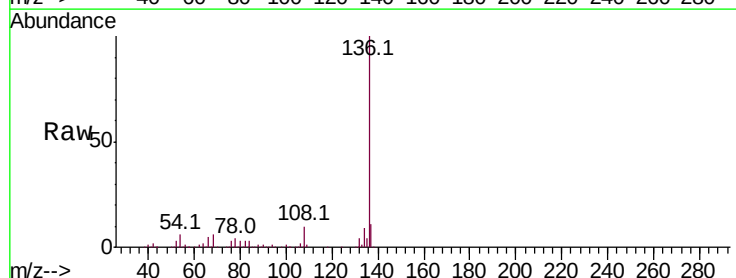
Ion Ratio Lower Upper

136 100

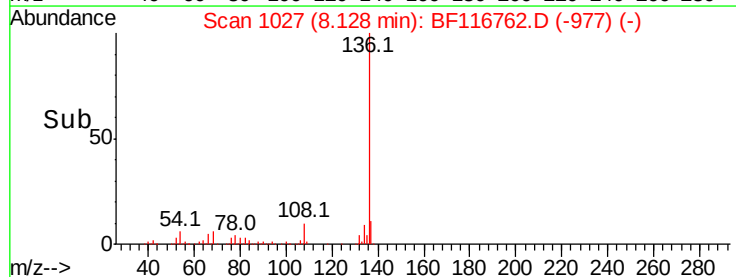
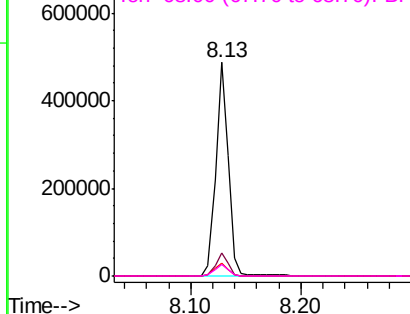
137 10.9 8.9 13.3

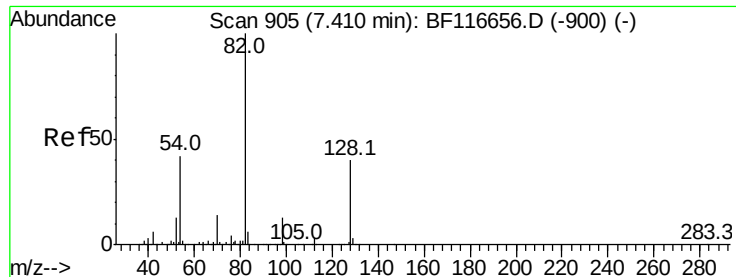
54 6.0 4.8 7.2

68 5.5 4.0 6.0



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

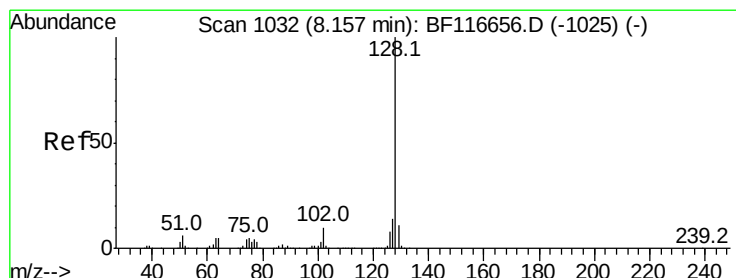
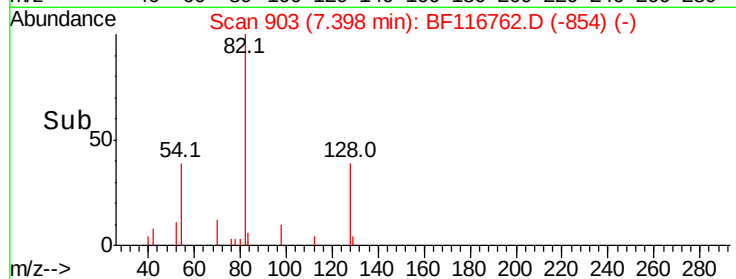
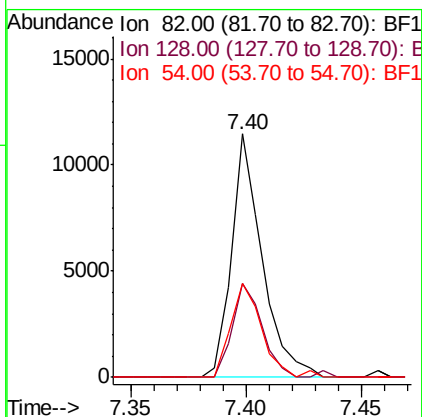
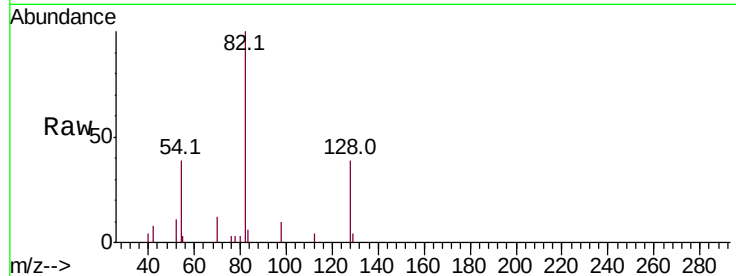




#23
 Nitrobenzene-d5
 Concen: 1.586 ng
 RT: 7.40 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

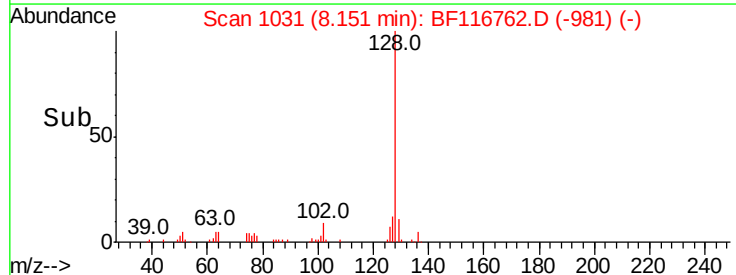
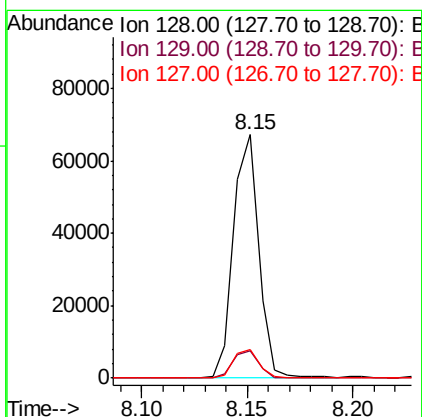
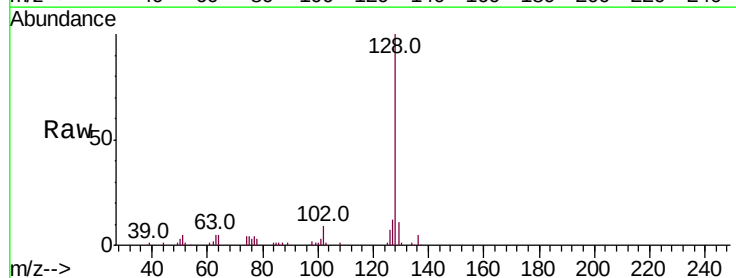
Instrument :
 BNA_F
 ClientSampled :

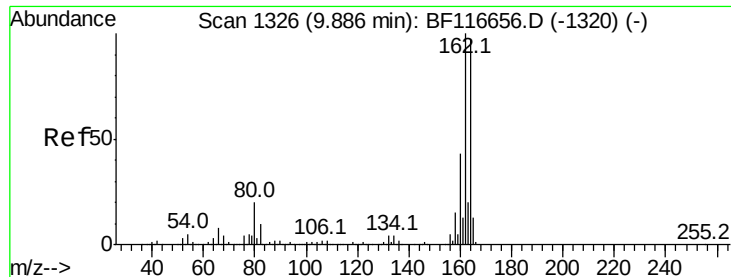
Tot Ion	82	Resp	10571
Ion Ratio	Lower	Upper	
82	100		
128	38.7	32.8	49.2
54	38.6	36.9	55.3



#31
 Naphthalene
 Concen: 3.069 ng
 RT: 8.15 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

Tgt Ion	128	Resp	55523
Ion Ratio	Lower	Upper	
128	100		
129	11.0	8.6	13.0
127	11.8	10.4	15.6

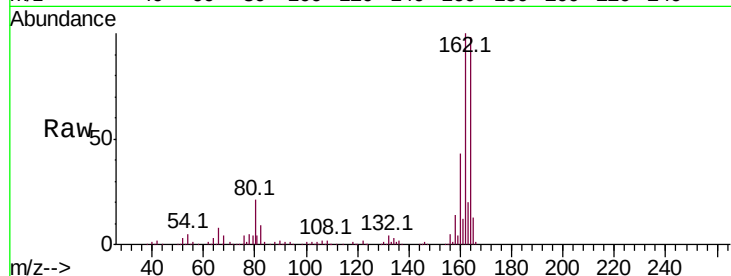




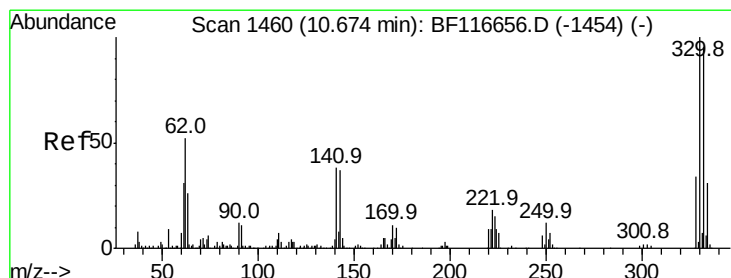
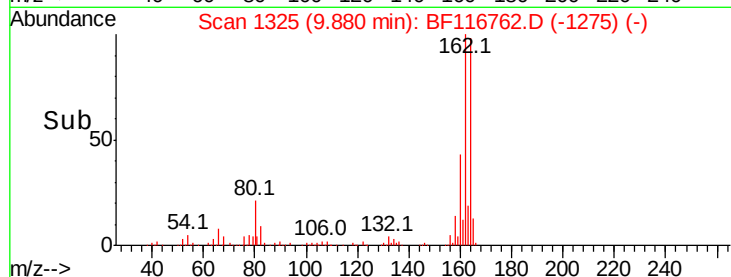
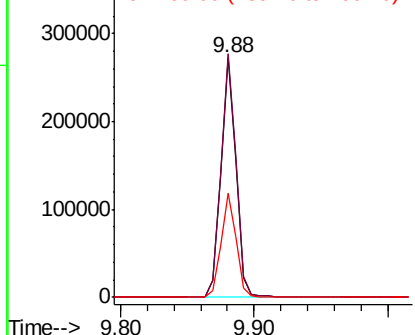
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 217656
Ion Ratio Lower Upper
164 100
162 101.7 81.4 122.0
160 43.5 35.4 53.2

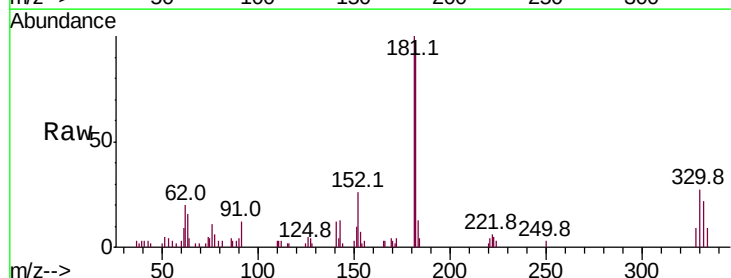


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

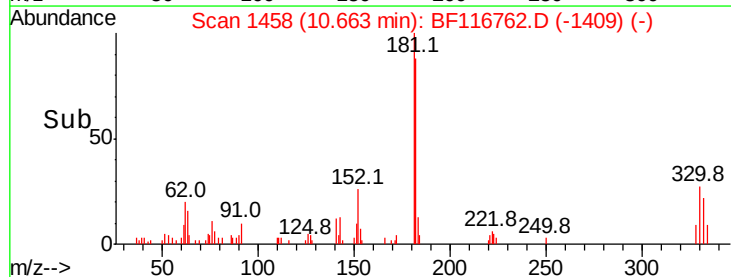
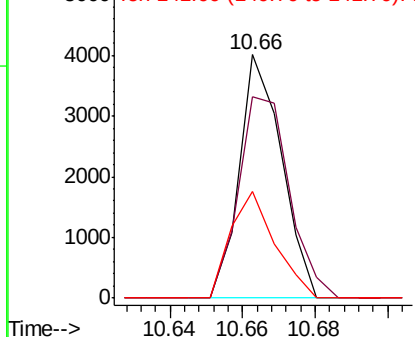


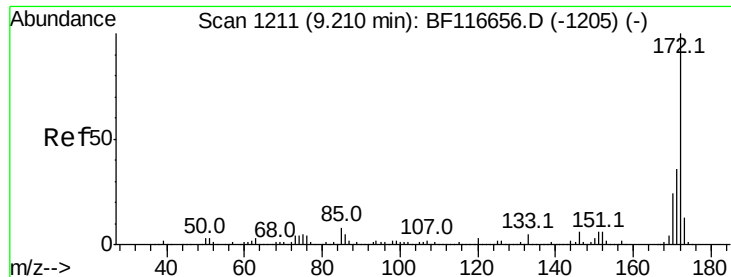
#42
2,4,6-Tribromophenol
Concen: 2.232 ng
RT: 10.66 min Scan# 1458
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion:330 Resp: 3248
Ion Ratio Lower Upper
330 100
332 99.3 76.9 115.3
141 45.7 31.4 47.2



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

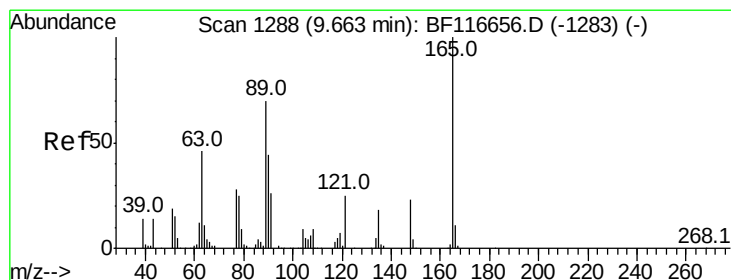
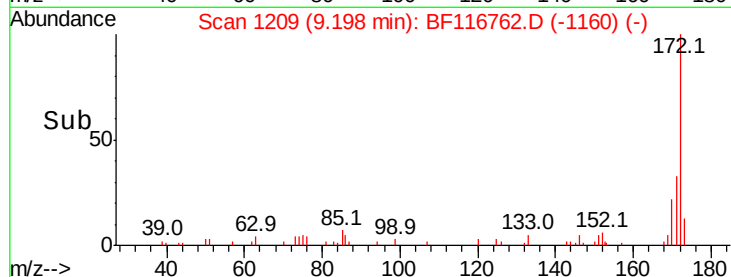
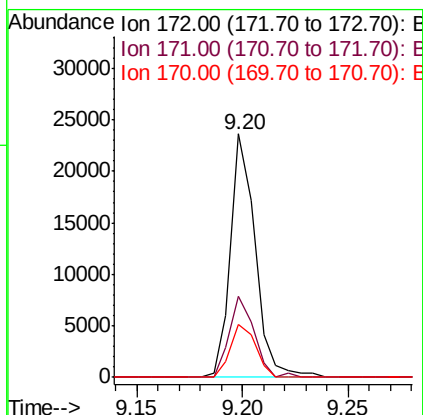
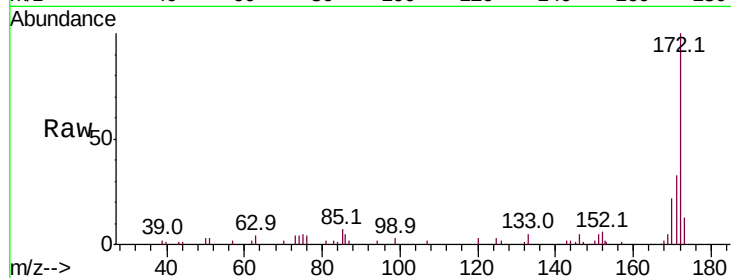




#45
 2-Fluorobiphenyl
 Concen: 1.475 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

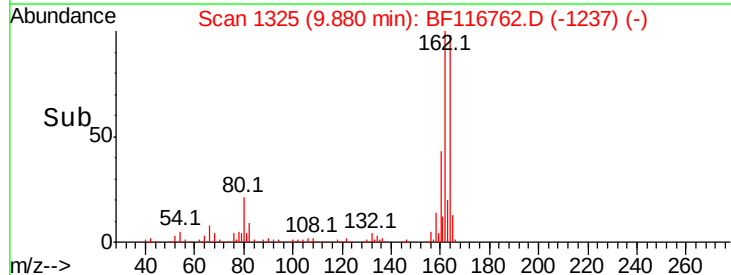
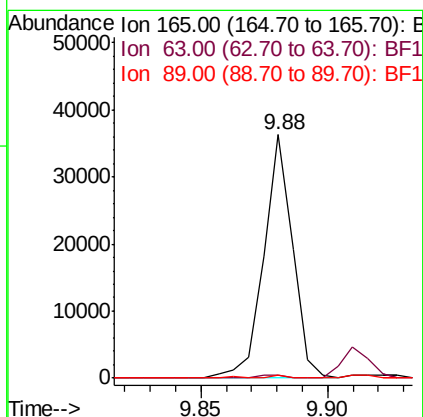
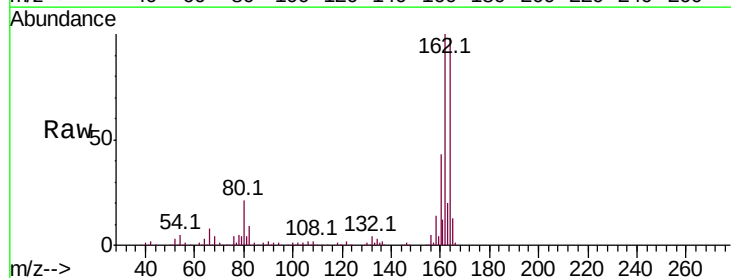
Instrument :
 BNA_F
 ClientSampleId :

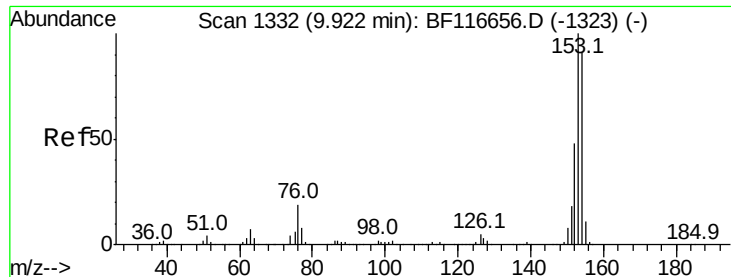
Tot Ion:172 Resp: 19029
 Ion Ratio Lower Upper
 172 100
 171 33.2 27.8 41.6
 170 21.5 18.9 28.3



#51
 2,6-Dinitrotoluene
 Concen: 10.057 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. 0.22 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

Tgt Ion:165 Resp: 28834
 Ion Ratio Lower Upper
 165 100
 63 1.3 47.3 70.9#
 89 1.0 52.5 78.7#





#52

Acenaphthene

Concen: 3.356 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Instrument :

BNA_F

ClientSampleId :

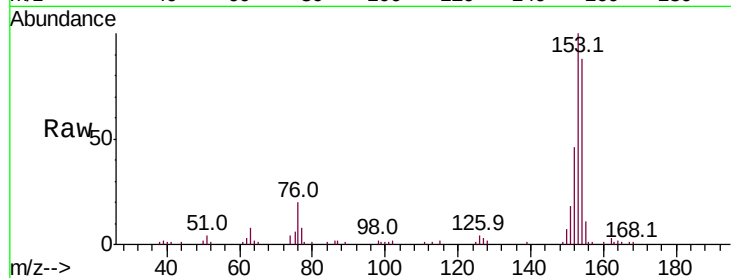
Tot Ion:154 Resp: 40781

Ion Ratio Lower Upper

154 100

153 113.5 89.5 134.3

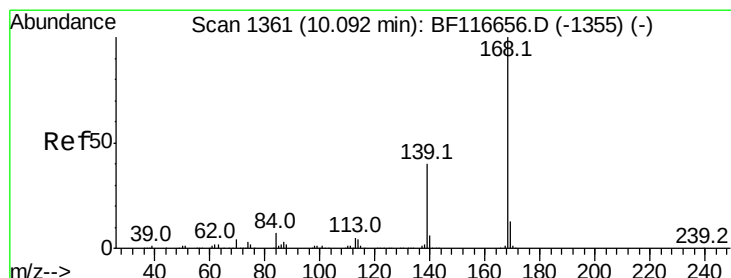
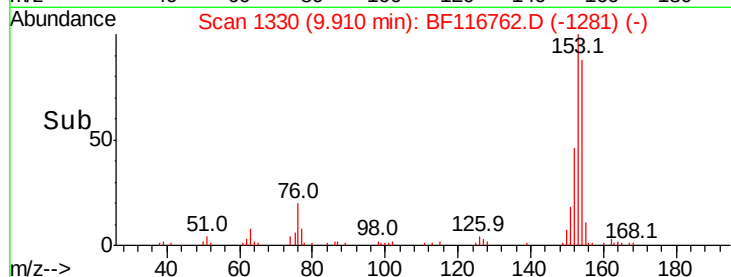
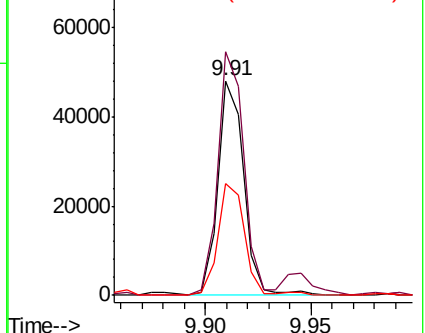
152 52.2 41.9 62.9



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



#55

Dibenzofuran

Concen: 2.661 ng

RT: 10.09 min Scan# 1360

Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

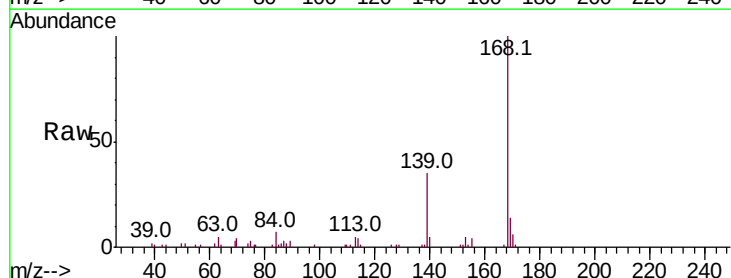
Tgt Ion:168 Resp: 45575

Ion Ratio Lower Upper

168 100

139 35.4 31.5 47.3

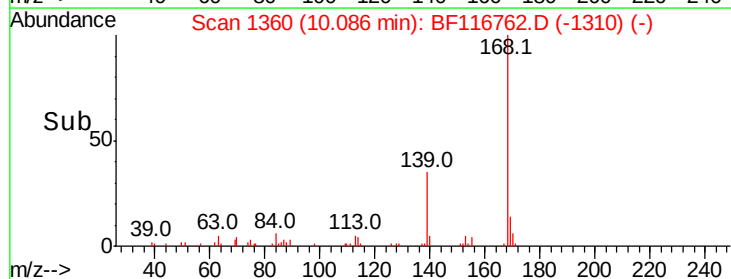
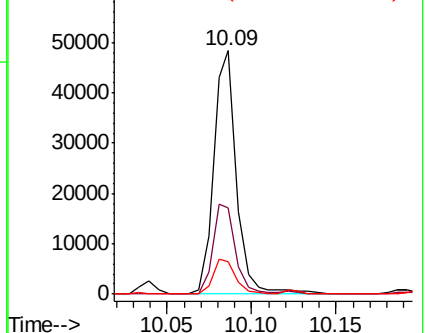
169 13.5 10.3 15.5

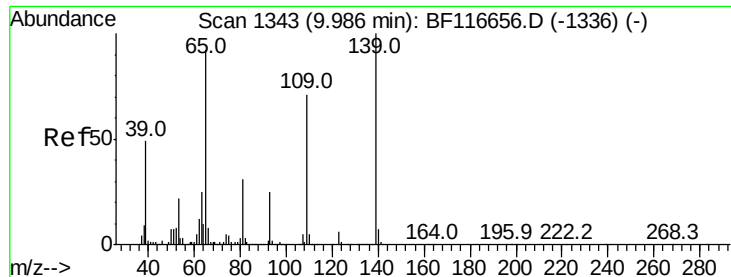


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#56

4-Nitrophenol

Concen: 6.743 ng

RT: 10.08 min Scan# 1359

Delta R.T. 0.09 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Instrument :

BNA_F

ClientSampled :

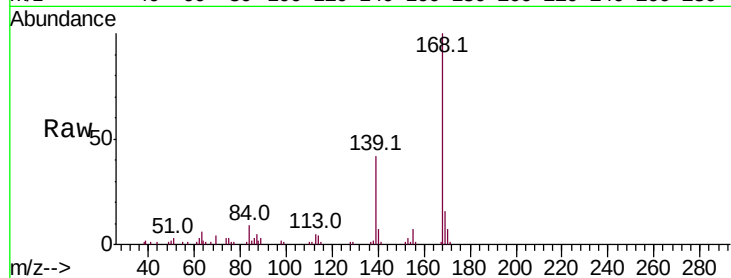
Tot Ion:139 Resp: 16611

Ion Ratio Lower Upper

139 100

109 0.0 61.7 101.7#

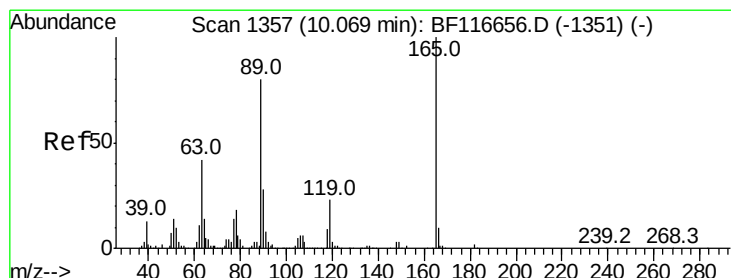
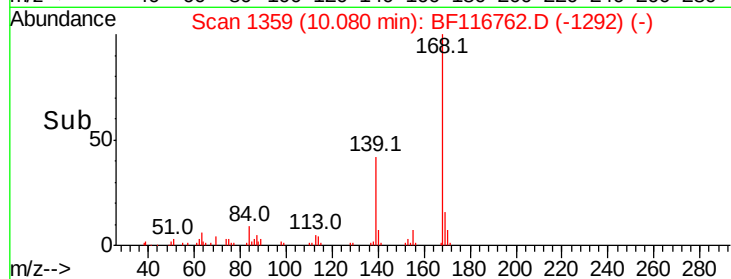
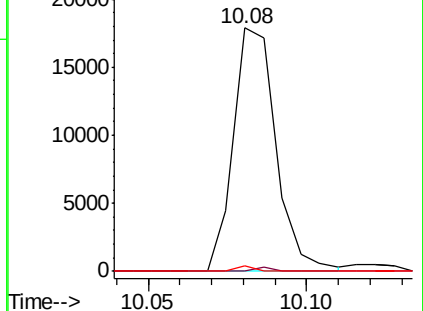
65 2.2 89.1 129.1#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57

2,4-Dinitrotoluene

Concen: 8.225 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.19 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Tgt Ion:165 Resp: 28834

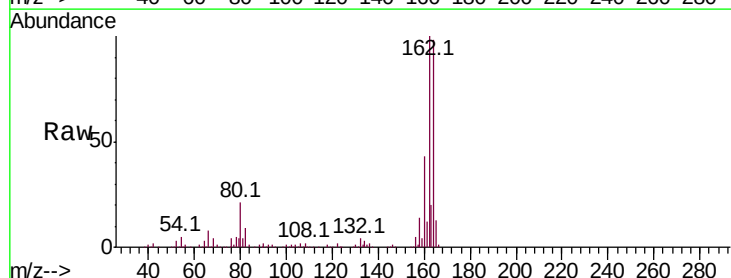
Ion Ratio Lower Upper

165 100

63 1.3 36.4 54.6#

89 1.0 62.6 94.0#

182 0.0 2.1 3.1#

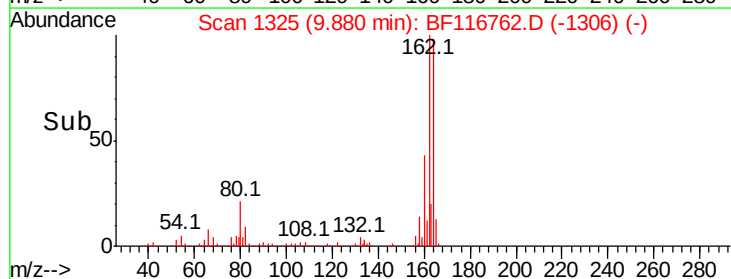
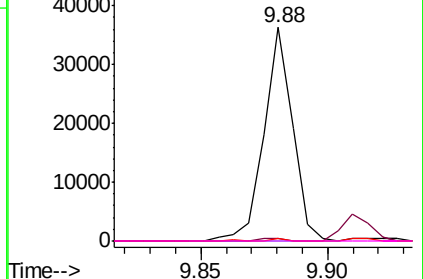


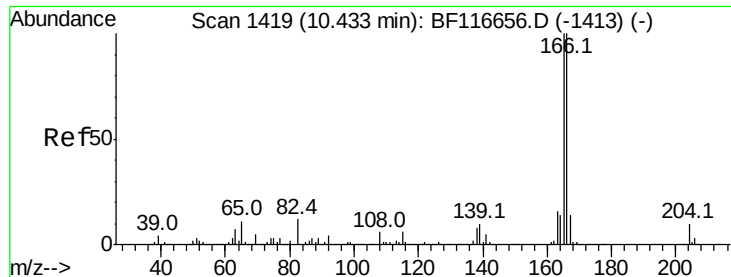
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

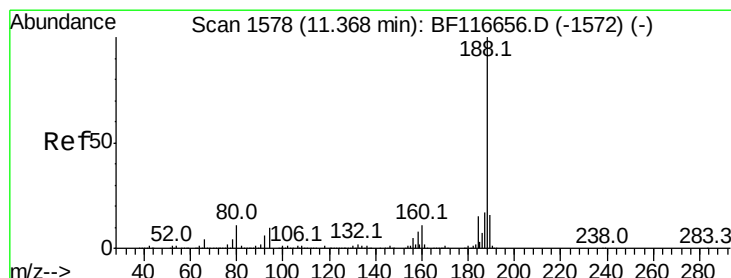
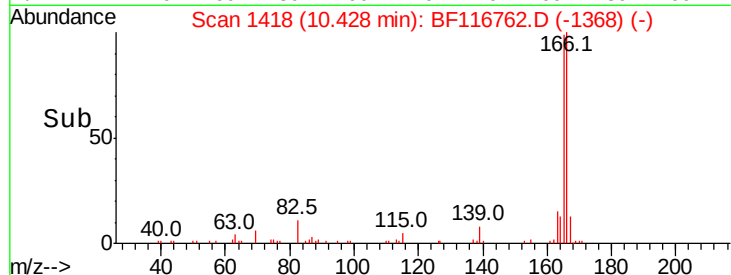
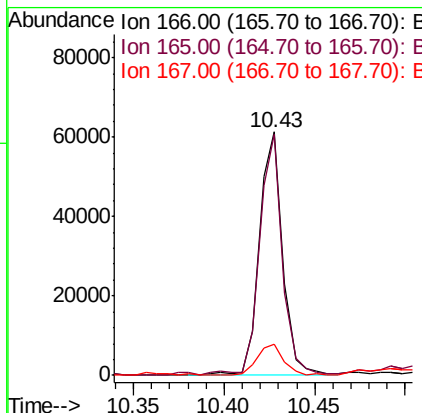
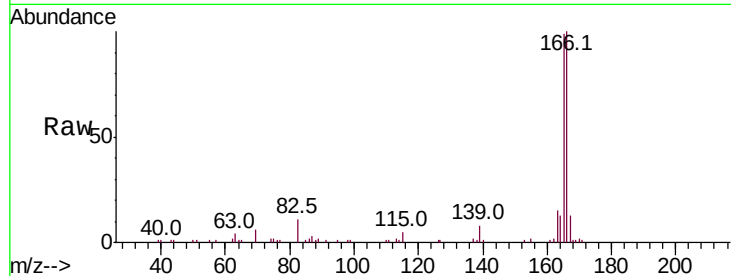




#58
 Fluorene
 Concen: 4.199 ng
 RT: 10.43 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

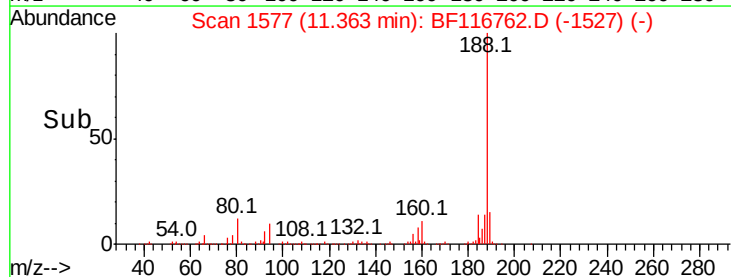
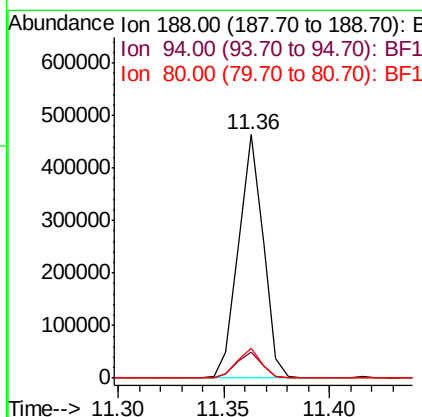
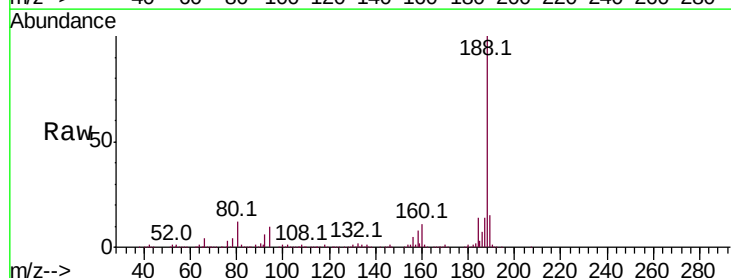
Instrument :
 BNA_F
 ClientSampleId :

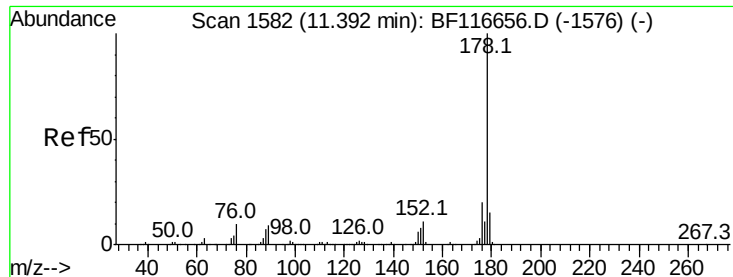
Tot Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.8	118.2
167	12.9	10.0	15.0



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	7.3	10.9
80	12.1	8.4	12.6





#71

Phenanthrene

Concen: 23.325 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Instrument :

BNA_F

ClientSampleId :

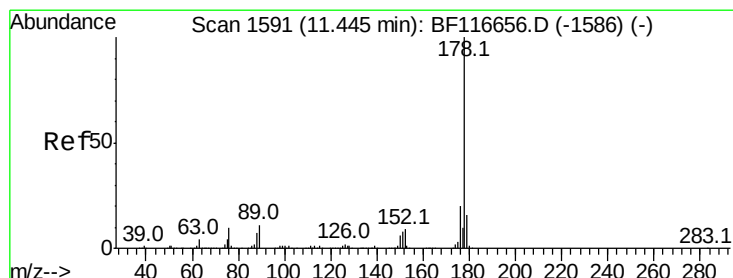
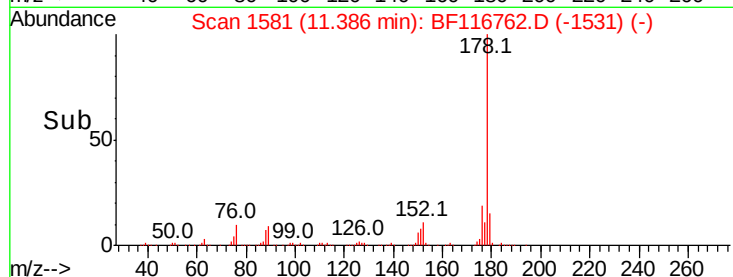
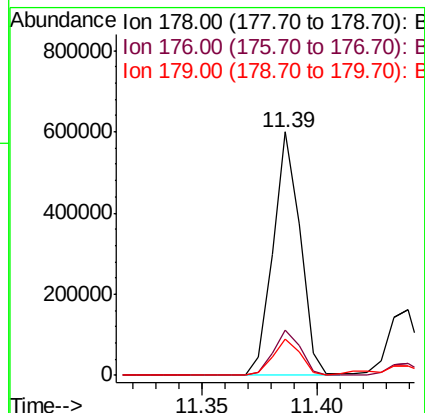
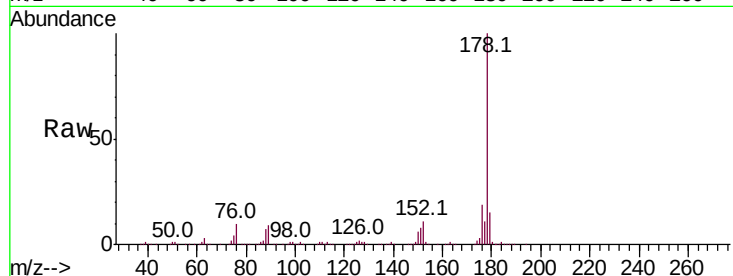
Tot Ion:178 Resp: 488784

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.0

179 14.7 12.2 18.2



#72

Anthracene

Concen: 6.654 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.00 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

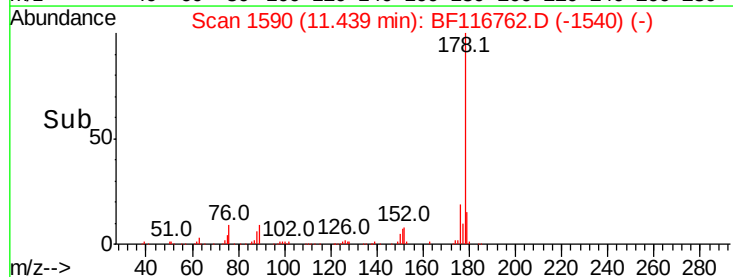
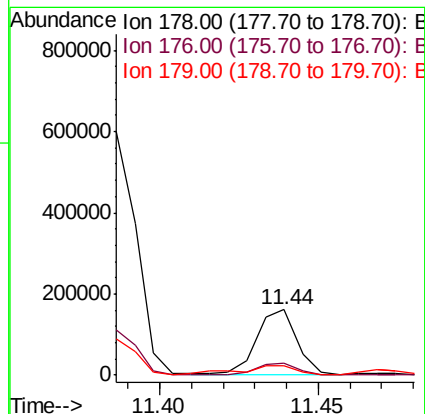
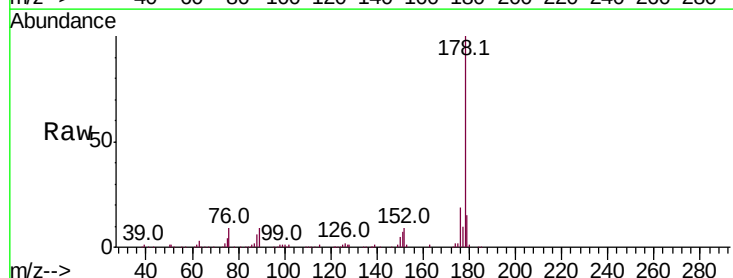
Tgt Ion:178 Resp: 140362

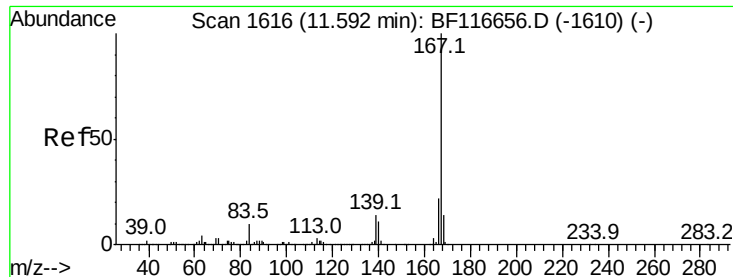
Ion Ratio Lower Upper

178 100

176 18.5 15.4 23.0

179 15.3 12.5 18.7

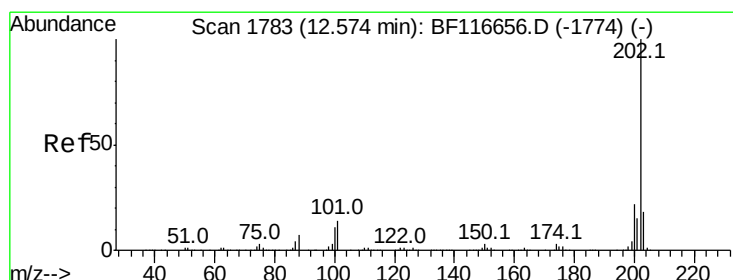
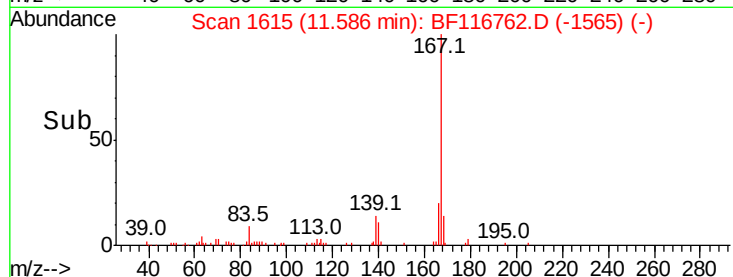
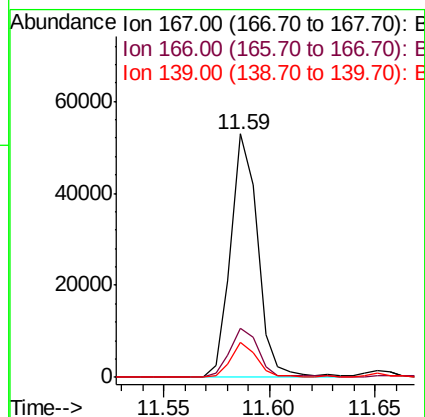
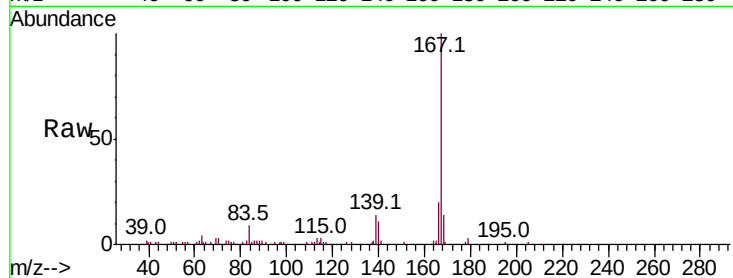




#73
 Carbazole
 Concen: 2.342 ng
 RT: 11.59 min Scan# 1615
 Delta R.T. -0.01 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

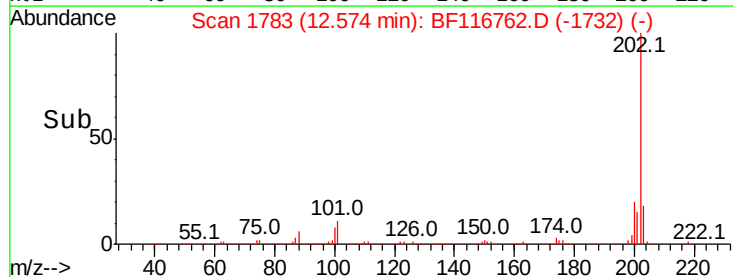
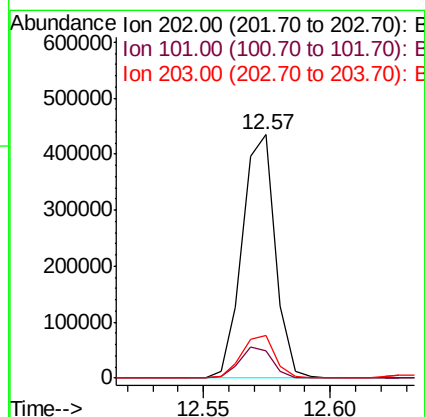
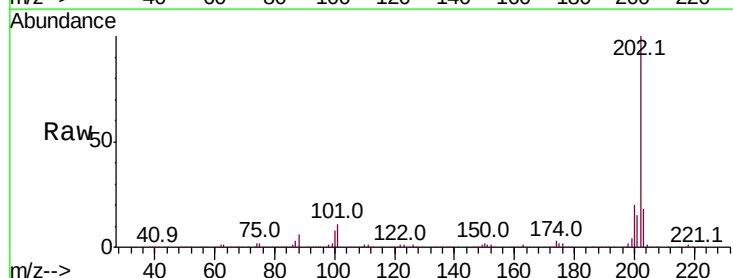
Instrument :
 BNA_F
 ClientSampleId :

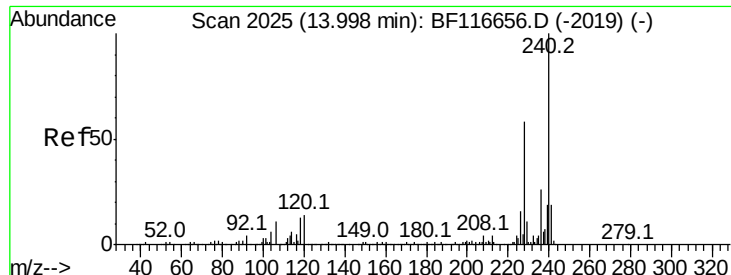
Tot Ion	Ratio	Lower	Upper
167	100		
166	20.3	17.8	26.6
139	14.4	11.1	16.7



#75
 Fluoranthene
 Concen: 19.041 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	31.3
203	17.6	0.0	37.6

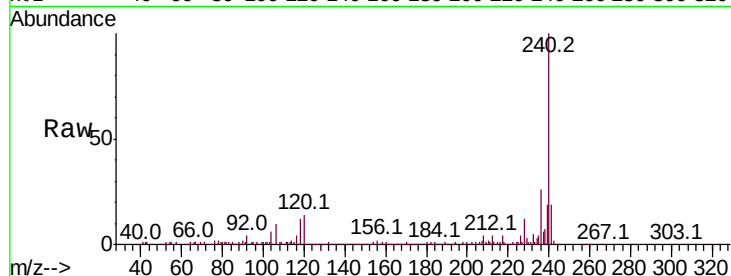




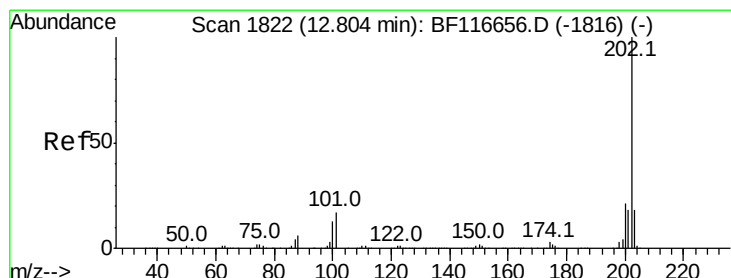
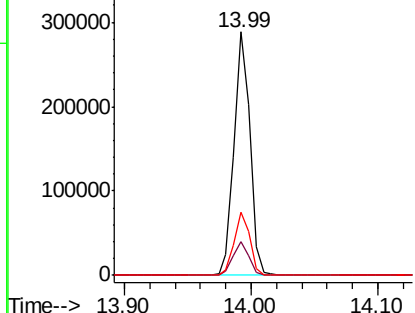
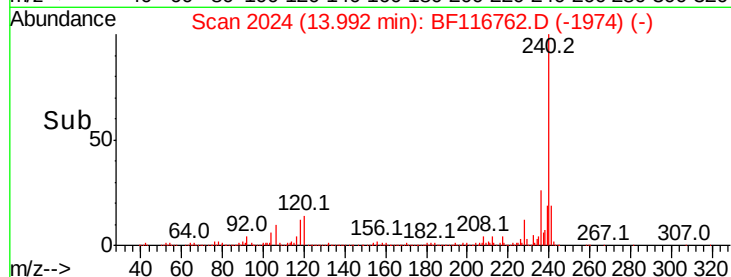
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:240 Resp: 247131
Ion Ratio Lower Upper
240 100
120 13.9 9.1 13.7#
236 26.1 21.1 31.7

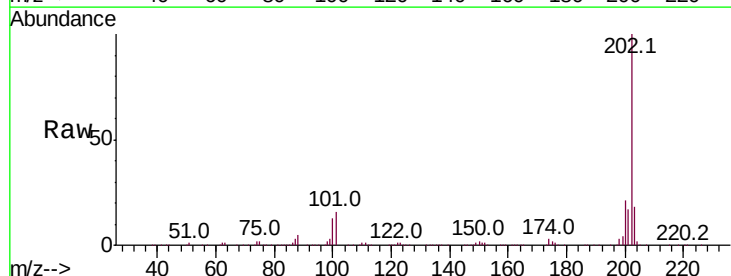


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

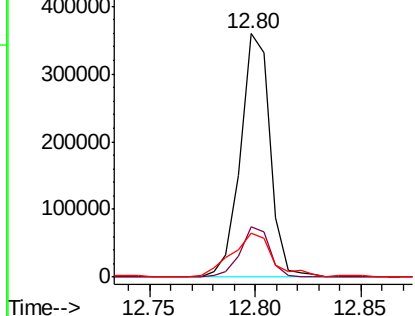
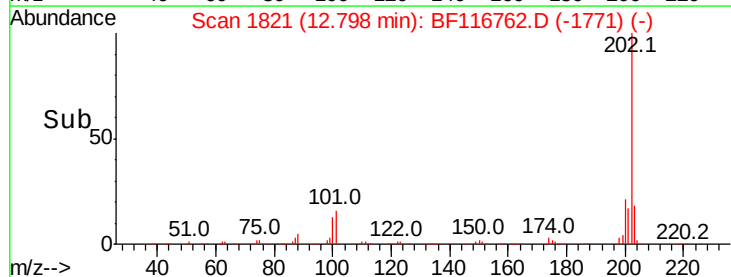


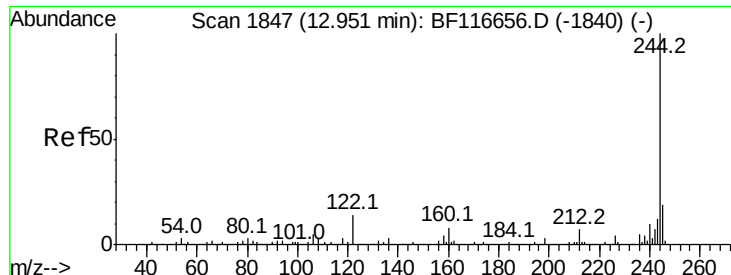
#78
Pyrene
Concen: 15.929 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion:202 Resp: 349929
Ion Ratio Lower Upper
202 100
200 20.7 16.5 24.7
203 18.3 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 1.510 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Instrument :

BNA_F

ClientSampleId :

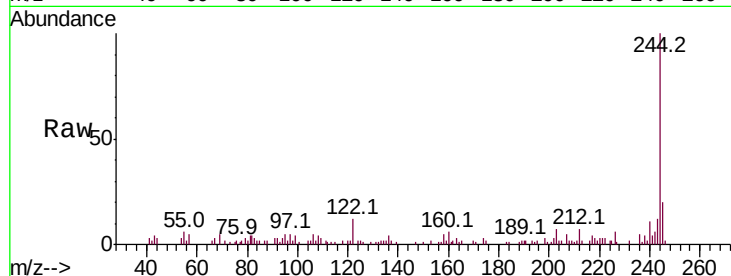
Tot Ion:244 Resp: 20176

Ion Ratio Lower Upper

244 100

212 6.5 6.1 9.1

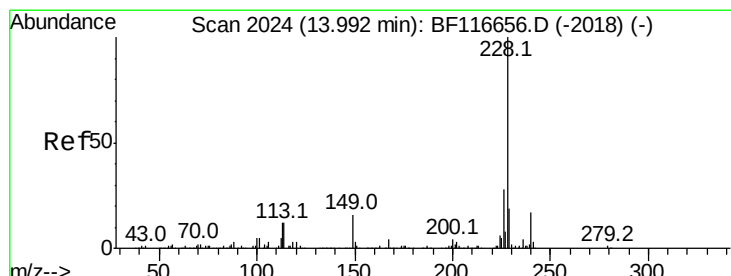
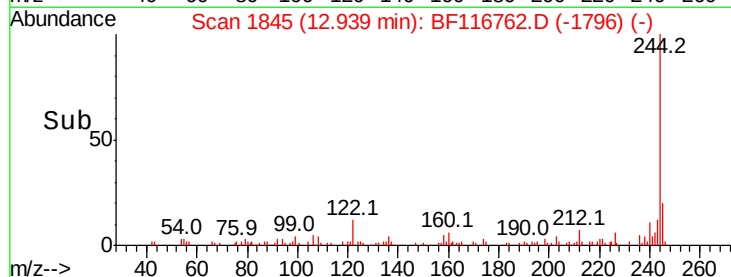
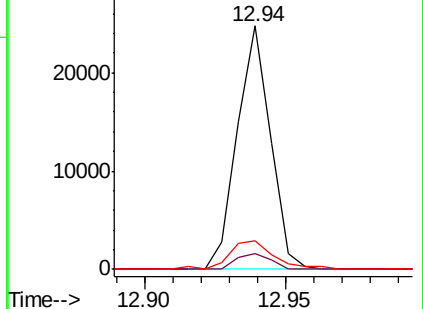
122 12.0 10.2 15.4



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



#81

Benzo(a)anthracene

Concen: 7.966 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

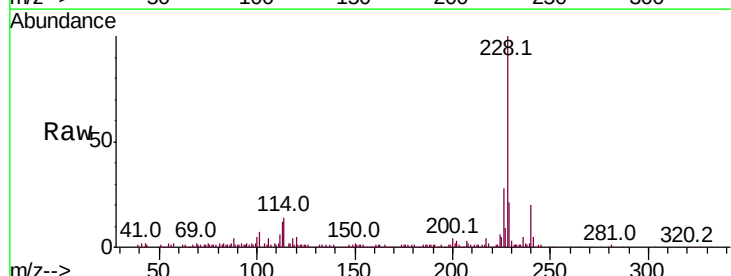
Tgt Ion:228 Resp: 124595

Ion Ratio Lower Upper

228 100

226 27.8 22.0 33.0

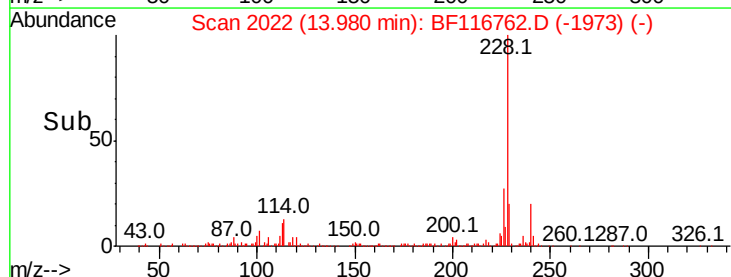
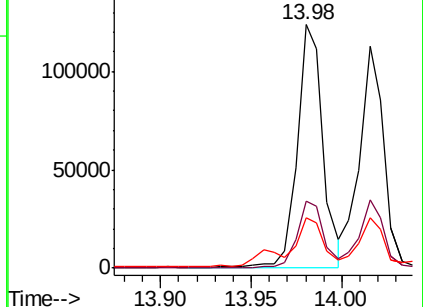
229 20.6 16.4 24.6

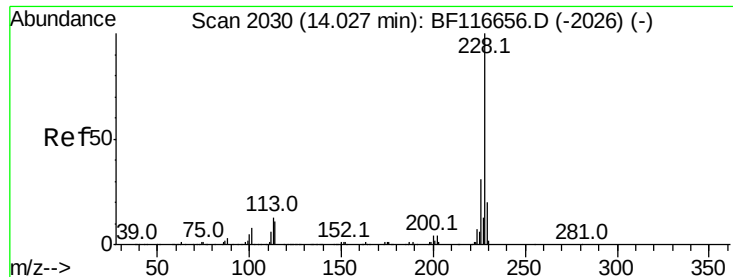


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

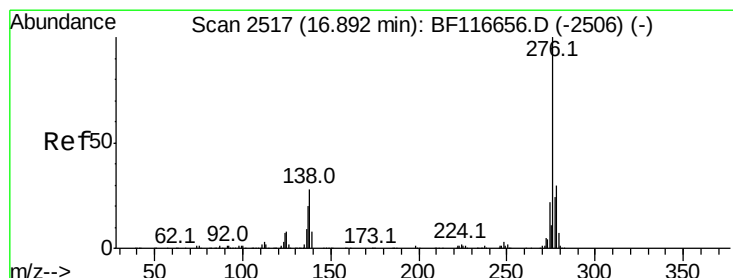
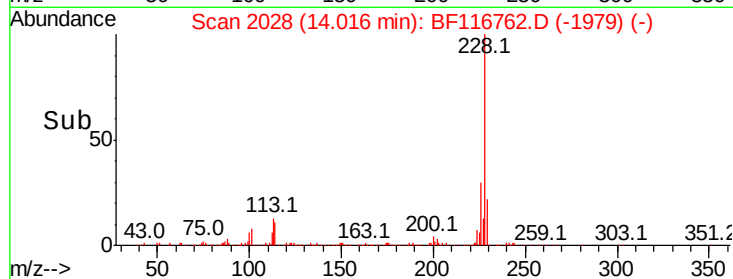
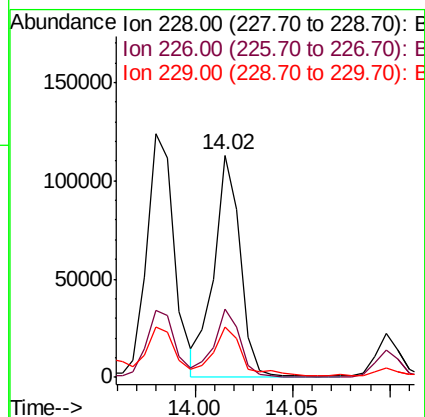
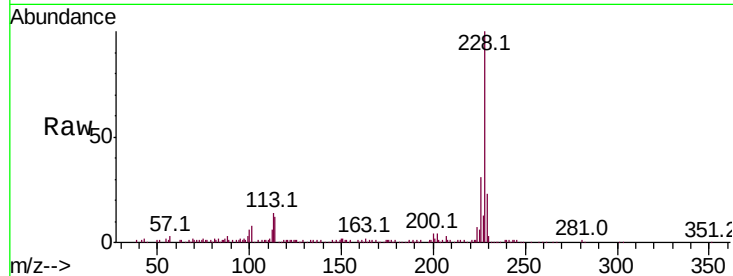




#83
Chrysene
Concen: 6.564 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

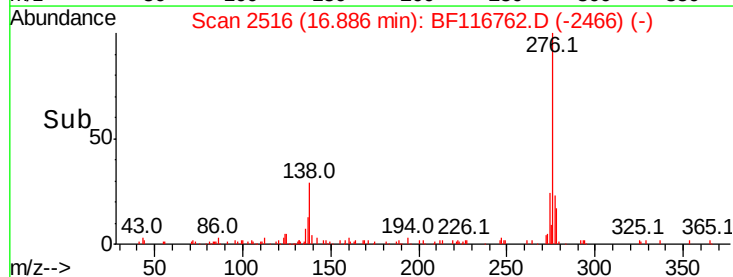
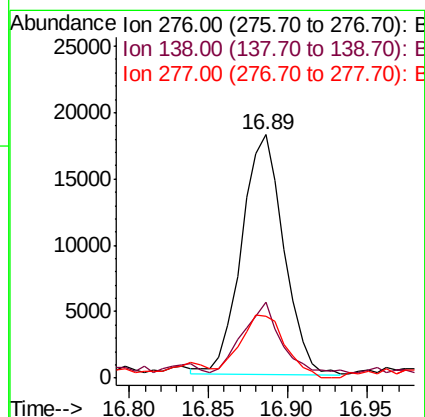
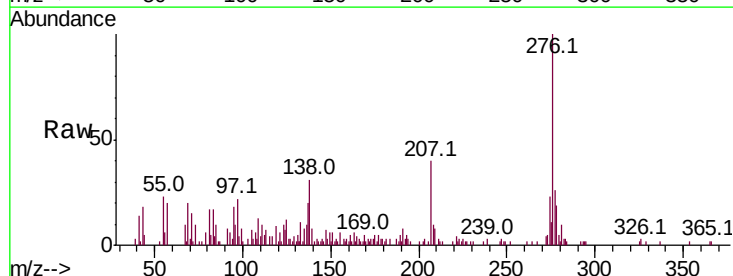
Instrument :
BNA_F
ClientSampleId :

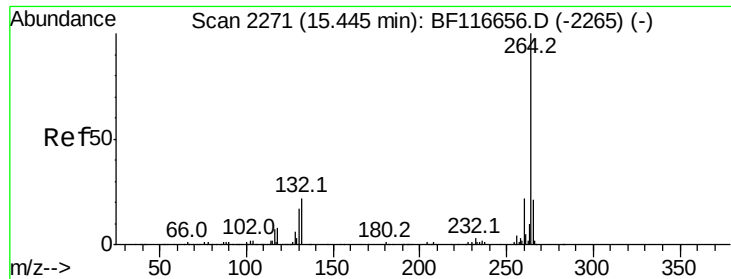
Tot Ion:228 Resp: 105769
Ion Ratio Lower Upper
228 100
226 30.7 24.0 36.0
229 22.6 15.4 23.0



#86
Indeno(1,2,3-cd)pyrene
Concen: 2.571 ng
RT: 16.89 min Scan# 2516
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion:276 Resp: 33272
Ion Ratio Lower Upper
276 100
138 26.0 19.4 29.2
277 28.2 20.5 30.7





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2271

Delta R.T. 0.00 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

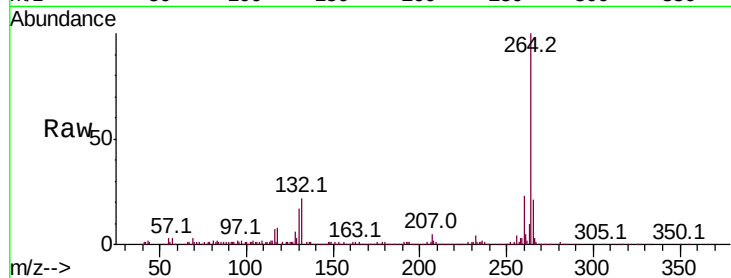
Instrument :

BNA_F

ClientSampleId :

Tot Ion:264 Resp: 228979

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.3	27.5
265	21.2	16.5	24.7

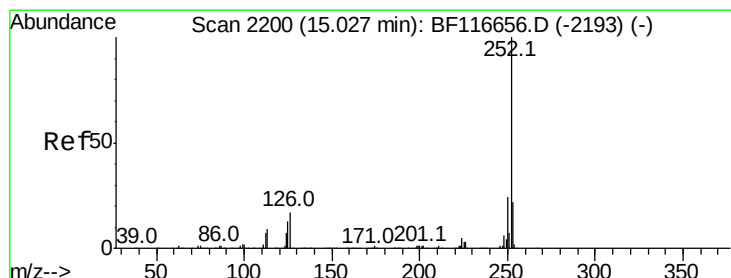
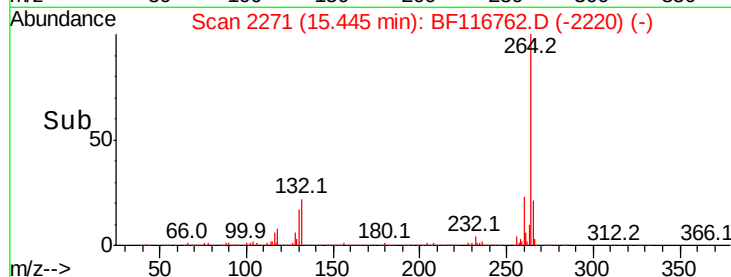
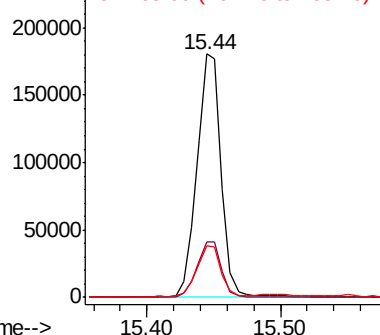


Abundance

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



#88

Benzo(b)fluoranthene

Concen: 9.730 ng

RT: 15.03 min Scan# 2200

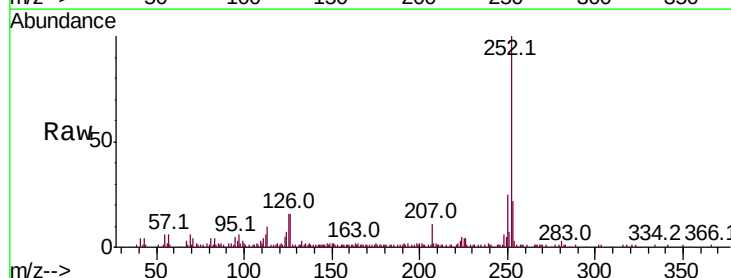
Delta R.T. 0.00 min

Lab File: BF116762.D

Acq: 2 Sep 2019 00:10

Tgt Ion:252 Resp: 134703

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	16.0	8.2	12.2

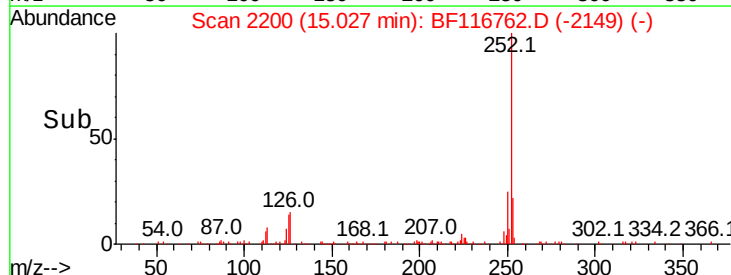
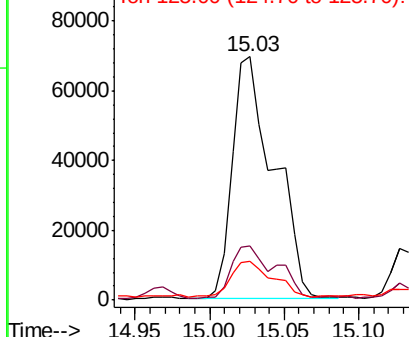


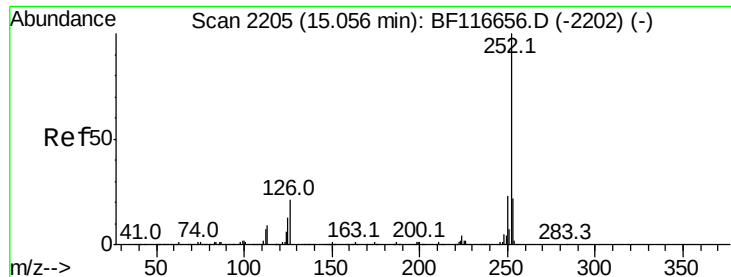
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

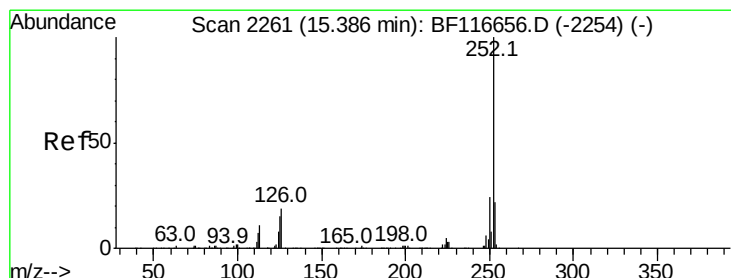
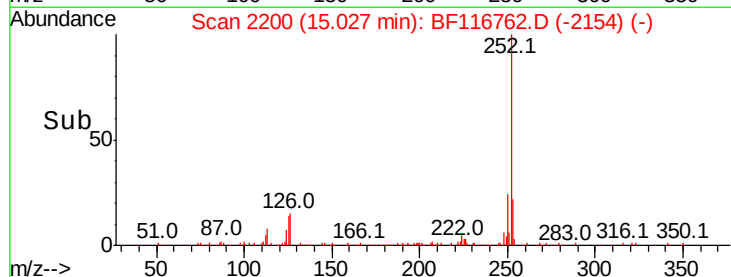
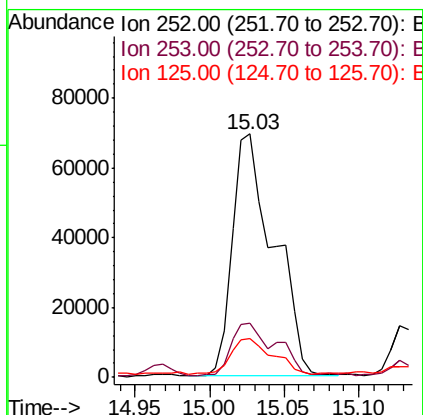
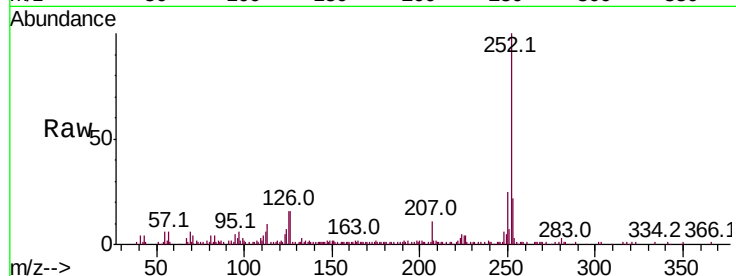




#89
Benzo(k)fluoranthene
Concen: 10.672 ng
RT: 15.03 min Scan# 2200
Delta R.T. -0.03 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

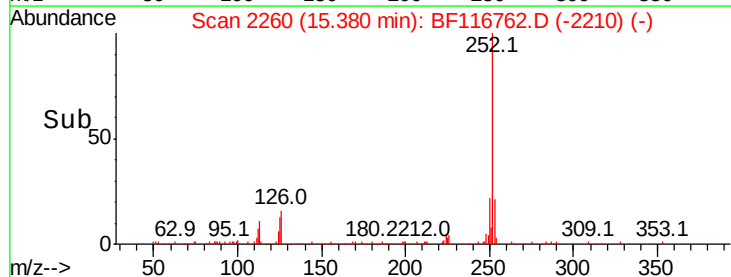
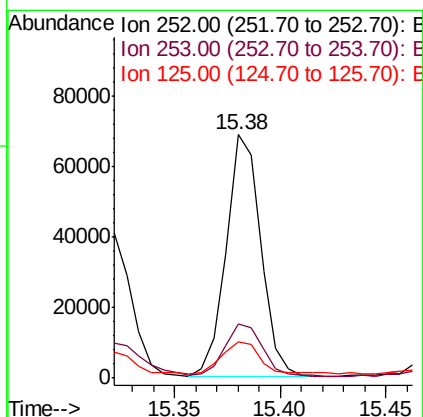
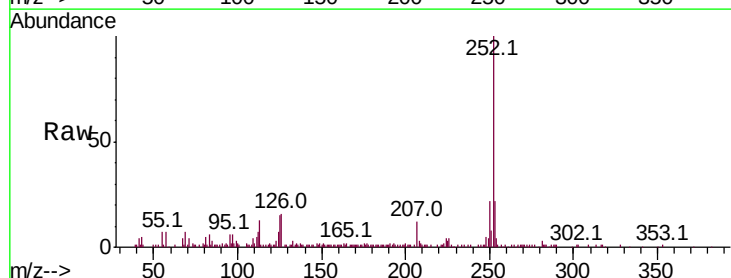
Instrument :
BNA_F
ClientSampleId :

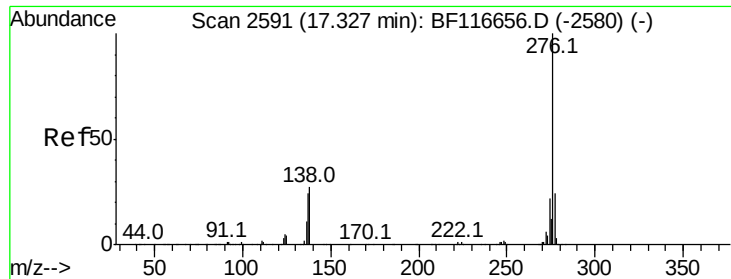
Tot Ion:252 Resp: 134703
Ion Ratio Lower Upper
252 100
253 22.3 17.7 26.5
125 16.0 8.6 13.0#



#90
Benzo(a)pyrene
Concen: 6.461 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF116762.D
Acq: 2 Sep 2019 00:10

Tgt Ion:252 Resp: 77820
Ion Ratio Lower Upper
252 100
253 22.2 18.1 27.1
125 14.7 9.8 14.8





#92
 Benzo(a,h,i)perylene
 Concen: 3.132 ng
 RT: 17.32 min Scan# 2590
 Delta R.T. -0.01 min
 Lab File: BF116762.D
 Acq: 2 Sep 2019 00:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 33680
 Ion Ratio Lower Upper
 276 100
 277 26.7 18.5 27.7
 138 27.8 16.2 24.2#

