

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
 Data File : BF117646.D
 Acq On : 31 Oct 2019 5:21
 Operator : JU
 Sample : K5576-19DL 10X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 31 07:59:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	30047	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	134239	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	65088	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	95063	20.00	ng	0.00
76) Chrysene-d12	13.90	240	71838	20.00	ng	0.00
87) Perylene-d12	15.33	264	60263	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.40	112	9661	4.78	ng	0.05
7) Phenol-d6	6.43	99	16704	6.16	ng	0.05
23) Nitrobenzene-d5	7.33	82	7431	2.73	ng	0.02
42) 2,4,6-Tribromophenol	10.57	330	2573	4.57	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	19716	4.27	ng	0.00
79) Terphenyl-d14	12.83	244	16308	3.70	ng	0.00

Target Compounds

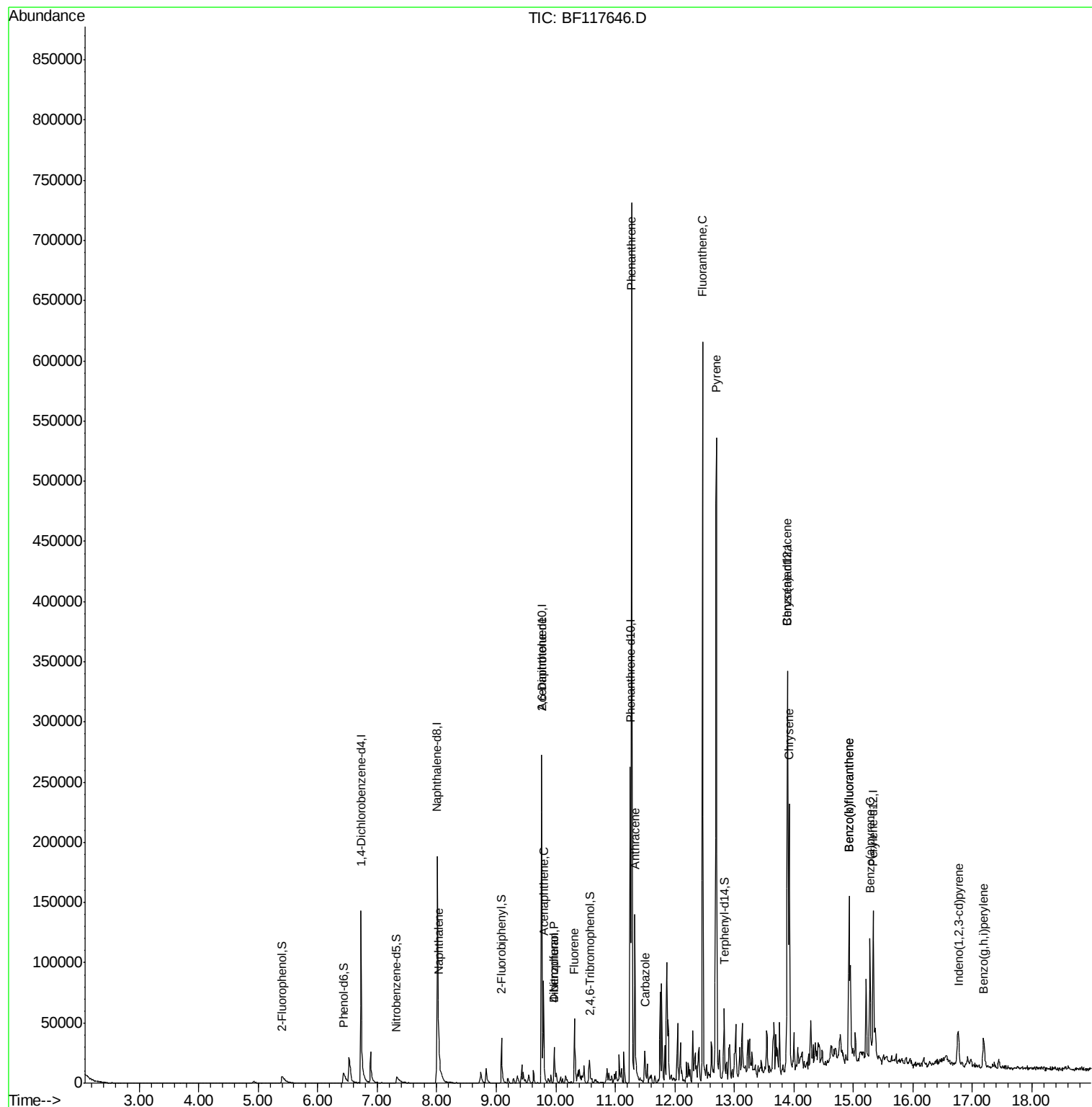
						Qvalue
31) Naphthalene	8.03	128	14523	2.183	ng	97
51) 2,6-Dinitrotoluene	9.76	165	8575	8.856	ng	# 22
52) Acenaphthene	9.79	154	20403	5.573	ng	95
55) Dibenzofuran	9.97	168	17313	3.264	ng	98
56) 4-Nitrophenol	9.97	139	6677	15.840	ng	# 6
58) Fluorene	10.32	166	20863	4.756	ng	92
71) Phenanthrene	11.27	178	273496	49.547	ng	99
72) Anthracene	11.33	178	73258	12.934	ng	96
73) Carbazole	11.50	167	14740	2.848	ng	93
75) Fluoranthene	12.47	202	243783	44.116	ng	98
78) Pyrene	12.70	202	223241	36.179	ng	100
81) Benzo(a)anthracene	13.89	228	92768	19.144	ng	100
83) Chrysene	13.92	228	74750	15.740	ng	100
86) Indeno(1,2,3-cd)pyrene	16.76	276	22701	6.402	ng	98
88) Benzo(b)fluoranthene	14.93	252	90575	25.452	ng	99
89) Benzo(k)fluoranthene	14.93	252	90575	24.833	ng	98
90) Benzo(a)pyrene	15.27	252	48881	15.108	ng	95
92) Benzo(g,h,i)perylene	17.19	276	20053	7.576	ng	# 87

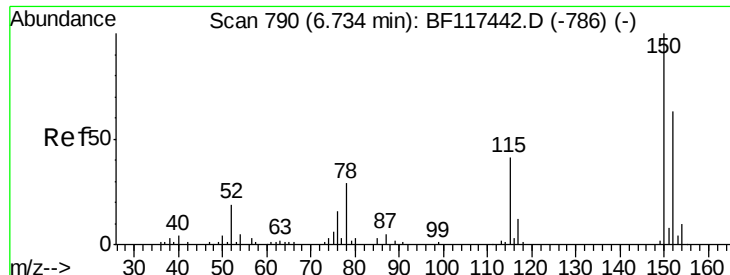
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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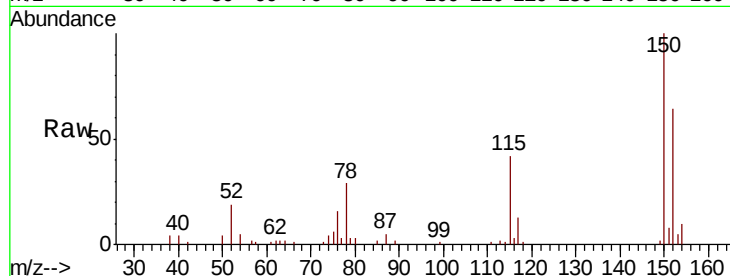




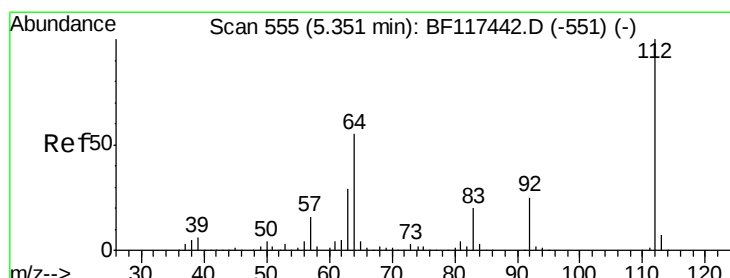
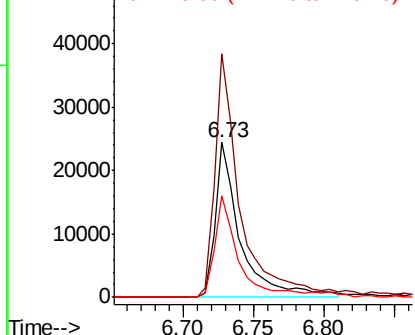
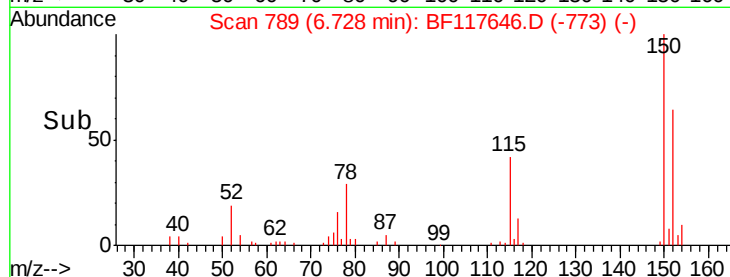
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 789
 Delta R.T. -0.01 min
 Lab File: BF117646.D
 Acq: 31 Oct 2019 5:21

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 30047
 Ion Ratio Lower Upper
 152 100
 150 157.2 126.8 190.2
 115 65.9 51.6 77.4

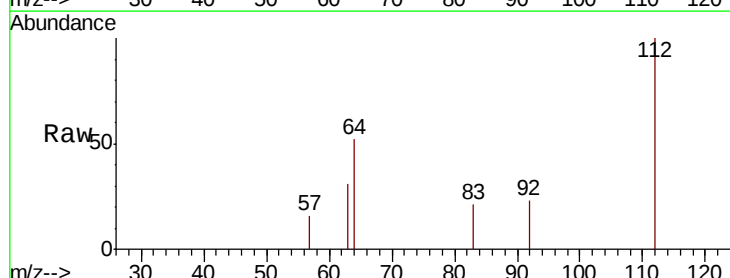


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

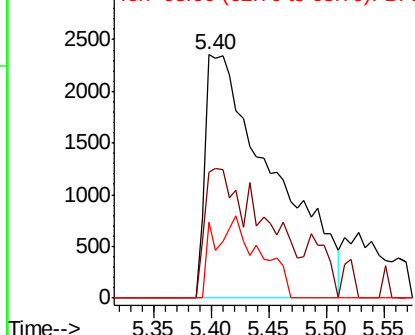
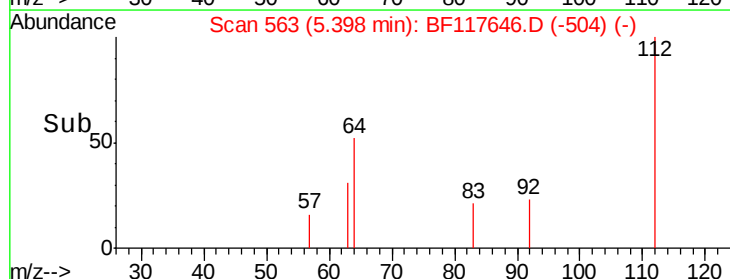


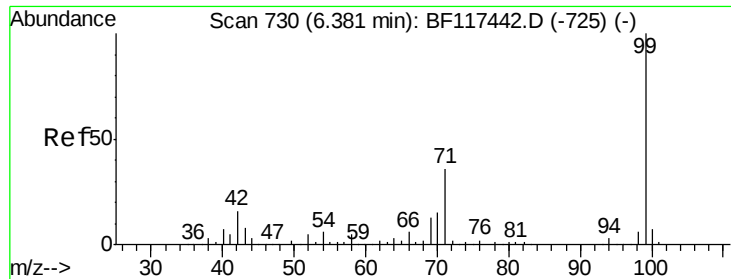
#5
 2-Fluorophenol
 Concen: 4.783 ng
 RT: 5.40 min Scan# 563
 Delta R.T. 0.05 min
 Lab File: BF117646.D
 Acq: 31 Oct 2019 5:21

Tgt Ion:112 Resp: 9661
 Ion Ratio Lower Upper
 112 100
 64 51.5 44.1 66.1
 63 31.1 23.4 35.2



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: 6.158 ng

RT: 6.43 min Scan# 739

Delta R.T. 0.05 min

Lab File: BF117646.D

Acq: 31 Oct 2019 5:21

Instrument :

BNA_F

ClientSampled :

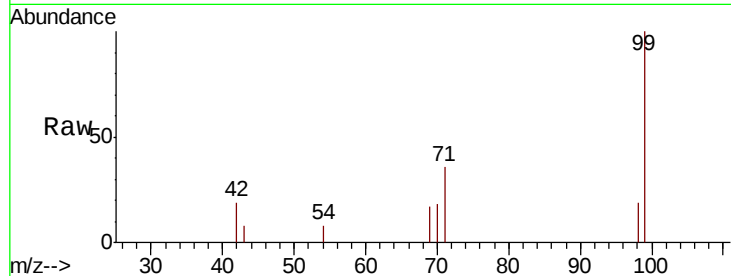
Tot Ion: 99 Resp: 16704

Ion Ratio Lower Upper

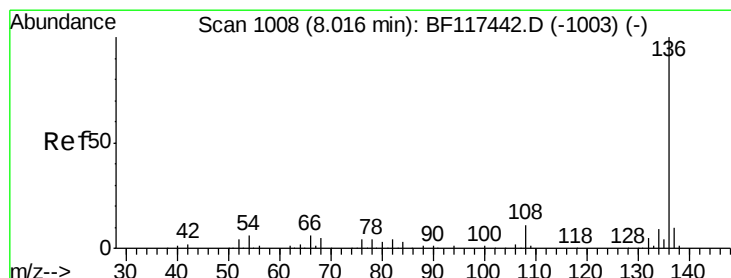
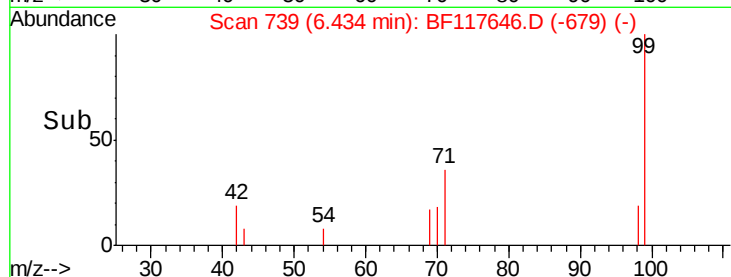
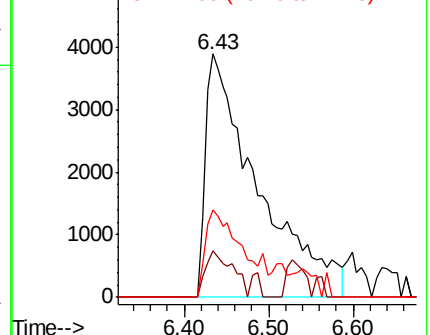
99 100

42 19.2 12.8 19.2

71 35.8 28.6 43.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117646.D

Acq: 31 Oct 2019 5:21

Tgt Ion: 136 Resp: 134239

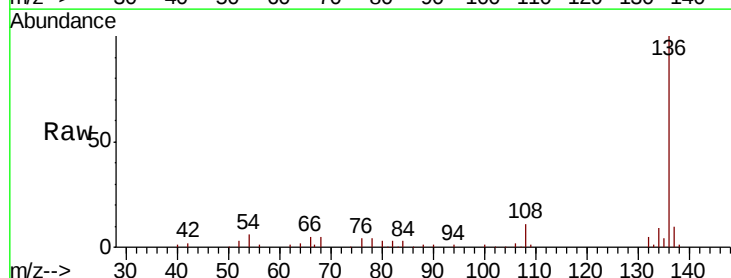
Ion Ratio Lower Upper

136 100

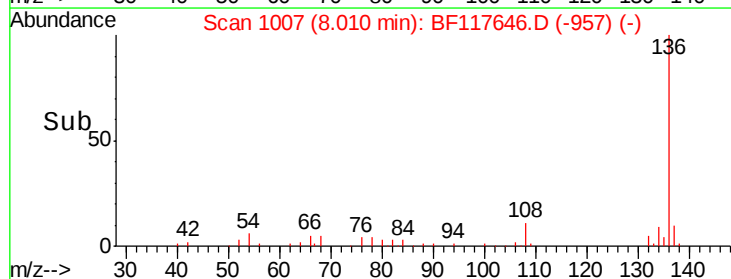
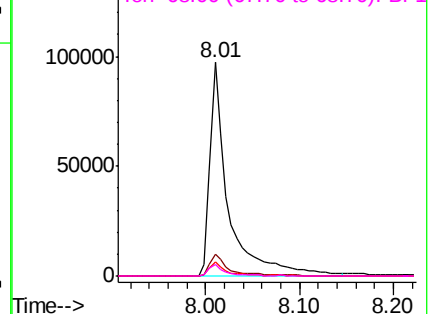
137 10.4 8.2 12.4

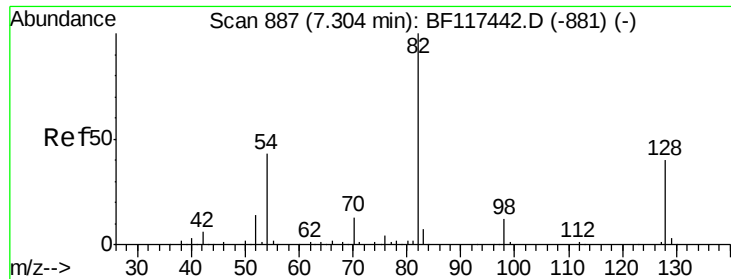
54 6.3 4.5 6.7

68 5.3 4.3 6.5



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

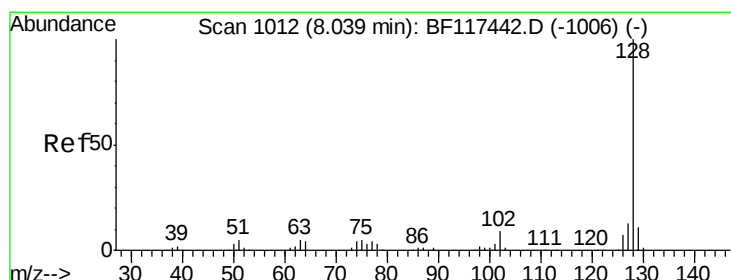
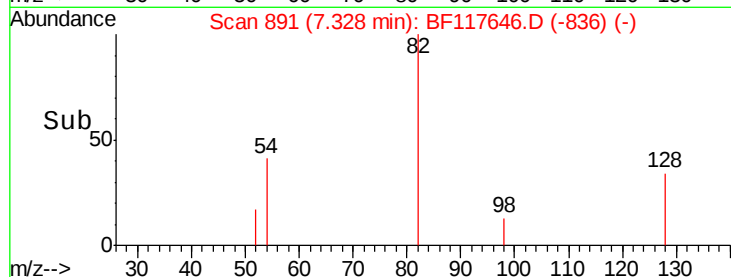
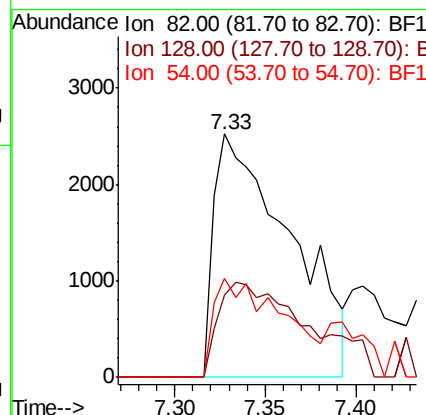
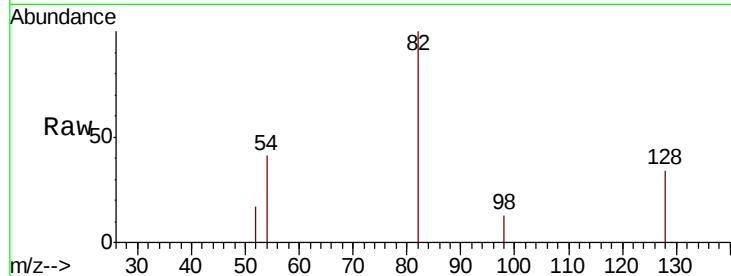




#23
Nitrobenzene-d5
Concen: 2.733 ng
RT: 7.33 min Scan# 891
Delta R.T. 0.02 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

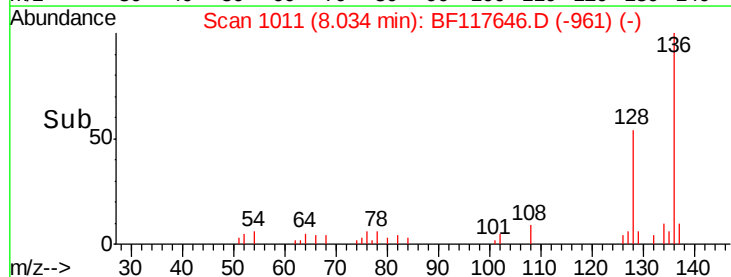
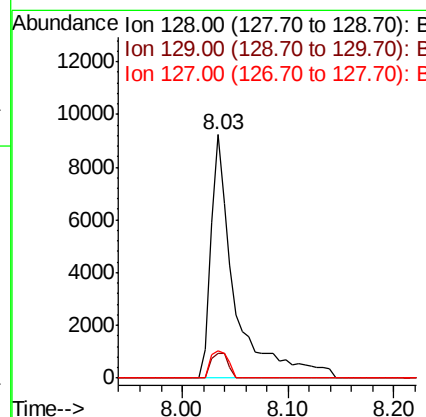
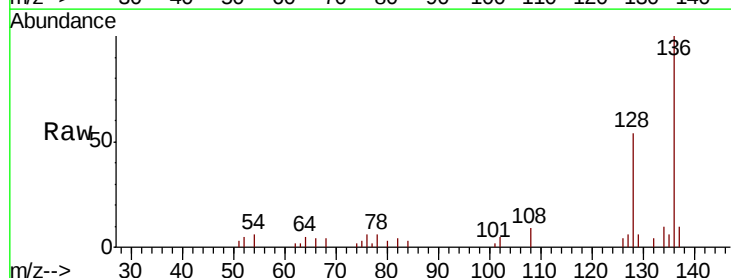
Instrument :
BNA_F
ClientSampleId :

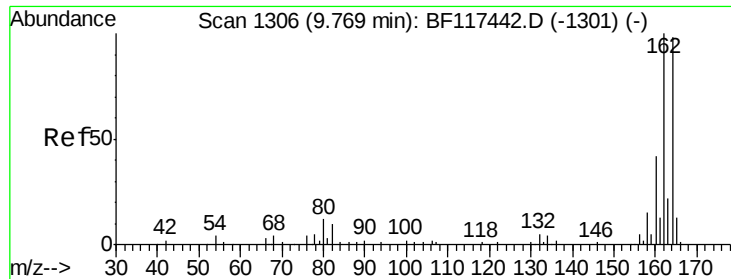
Tot Ion: 82 Resp: 7431
Ion Ratio Lower Upper
82 100
128 33.9 32.2 48.2
54 40.8 34.2 51.2



#31
Naphthalene
Concen: 2.183 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.01 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

Tgt Ion:128 Resp: 14523
Ion Ratio Lower Upper
128 100
129 10.1 9.0 13.4
127 11.4 10.2 15.2

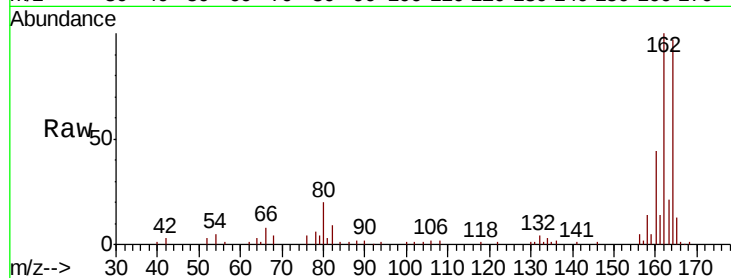




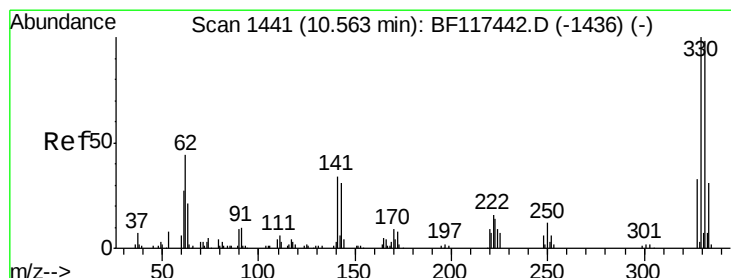
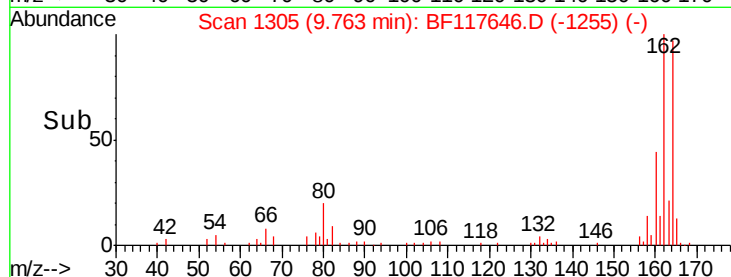
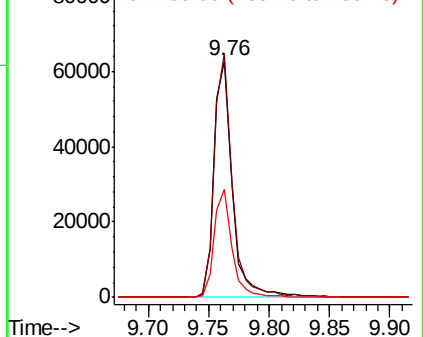
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 65088
Ion Ratio Lower Upper
164 100
162 103.1 81.8 122.6
160 45.4 34.4 51.6

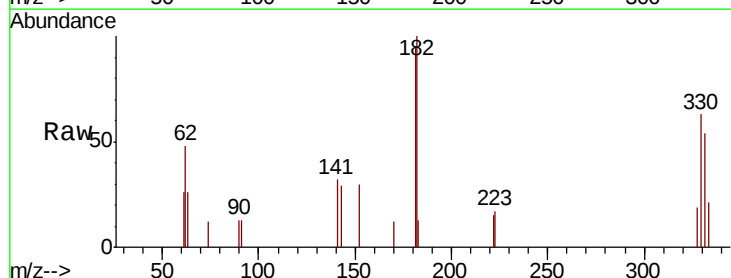


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

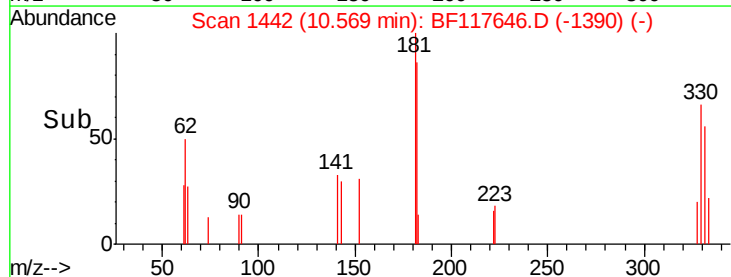
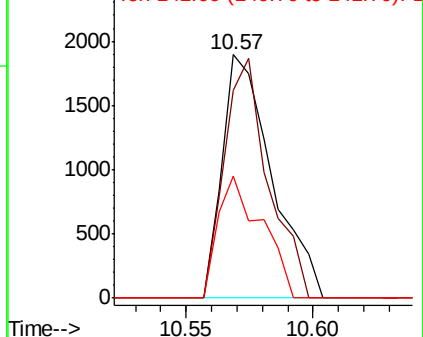


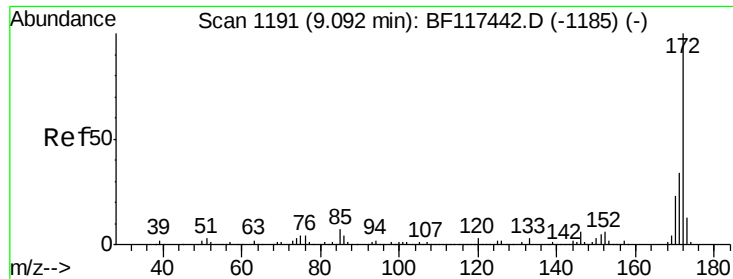
#42
2,4,6-Tribromophenol
Concen: 4.569 ng
RT: 10.57 min Scan# 1442
Delta R.T. 0.01 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

Tgt Ion:330 Resp: 2573
Ion Ratio Lower Upper
330 100
332 87.2 78.5 117.7
141 44.2 37.0 55.6



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

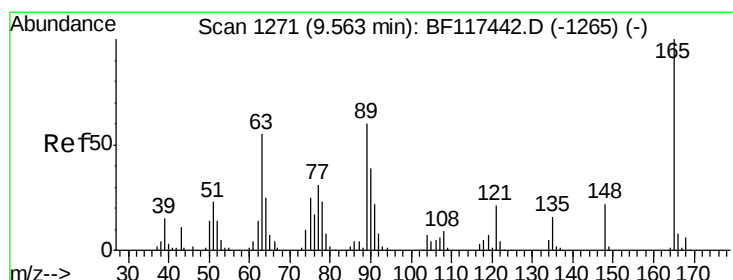
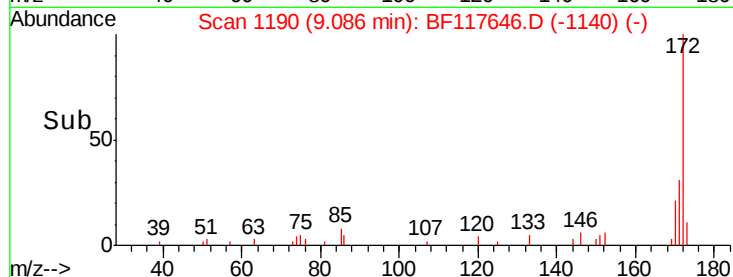
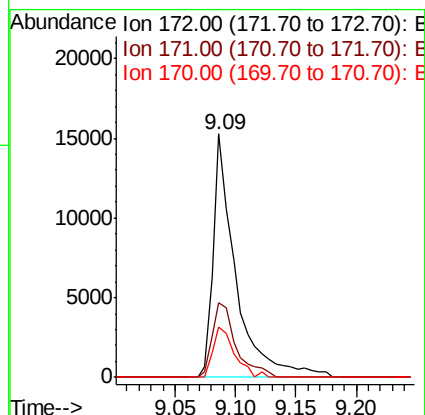
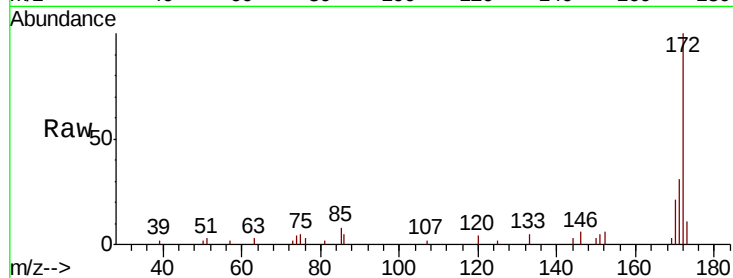




#45
2-Fluorobiphenyl
Concen: 4.268 ng
RT: 9.09 min Scan# 1190
Delta R.T. -0.01 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

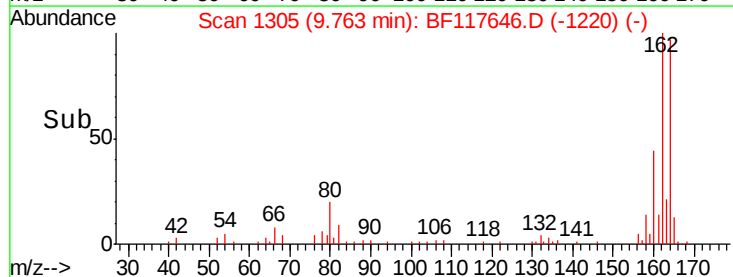
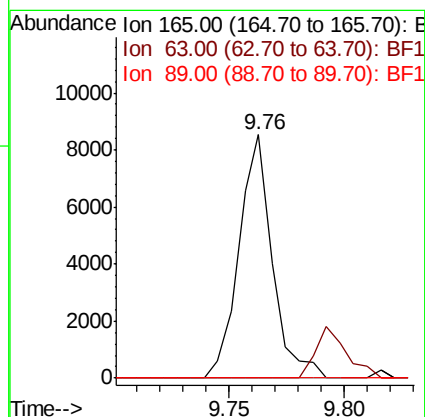
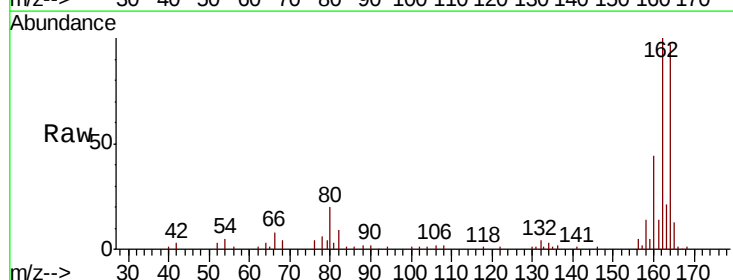
Instrument :
BNA_F
ClientSampleId :

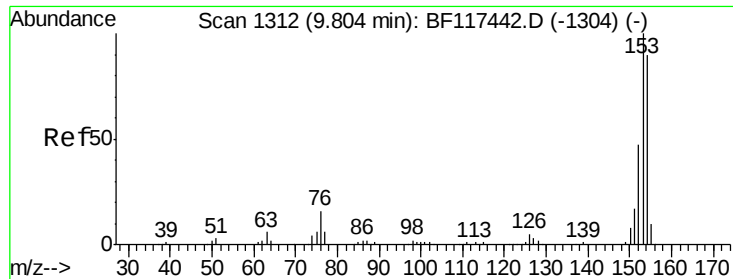
Tot Ion	Ratio	Lower	Upper
172	100		
171	30.8	27.5	41.3
170	20.9	18.6	27.8



#51
2,6-Dinitrotoluene
Concen: 8.856 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.20 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	43.8	65.8#
89	0.0	47.6	71.4#





#52

Acenaphthene

Concen: 5.573 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF117646.D

Acq: 31 Oct 2019 5:21

Instrument :

BNA_F

ClientSampleId :

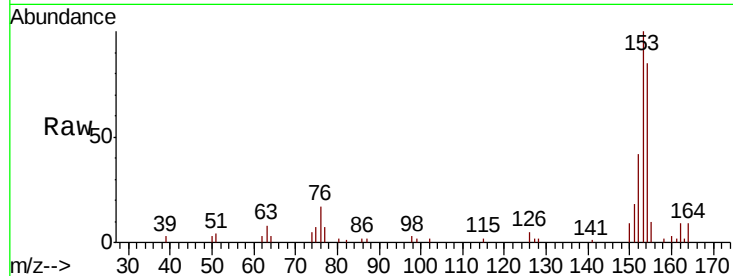
Tot Ion:154 Resp: 20403

Ion Ratio Lower Upper

154 100

153 117.4 89.2 133.8

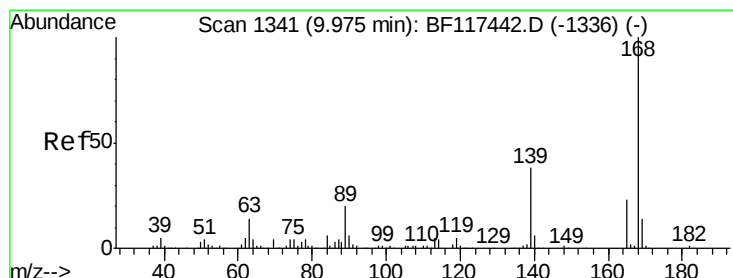
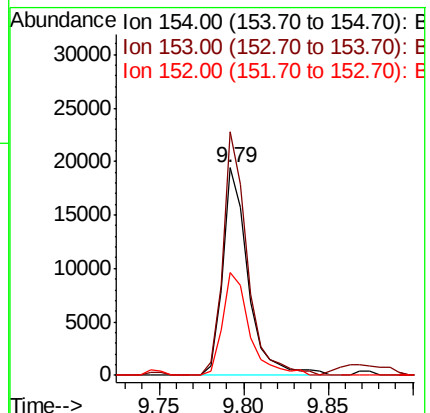
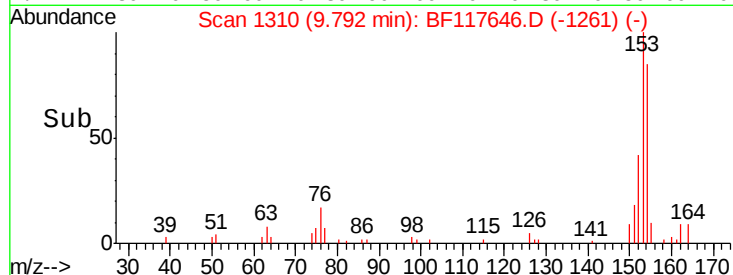
152 49.6 41.8 62.6



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: 3.264 ng

RT: 9.97 min Scan# 1341

Delta R.T. -0.00 min

Lab File: BF117646.D

Acq: 31 Oct 2019 5:21

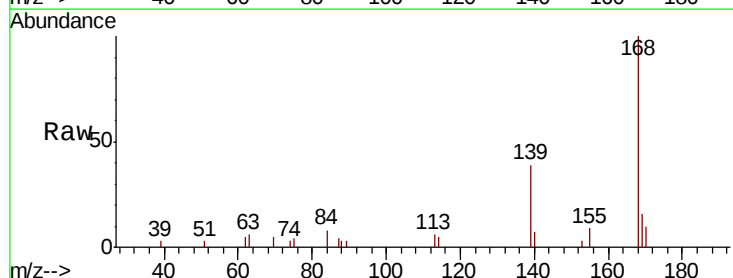
Tgt Ion:168 Resp: 17313

Ion Ratio Lower Upper

168 100

139 39.0 31.8 47.6

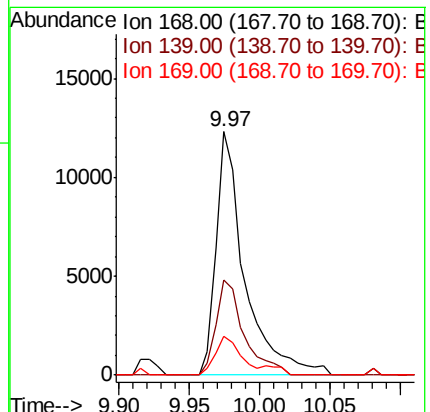
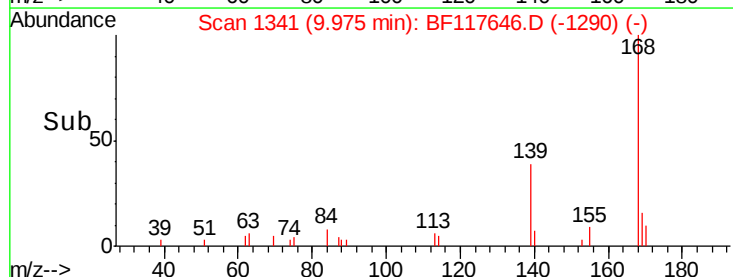
169 15.8 11.2 16.8

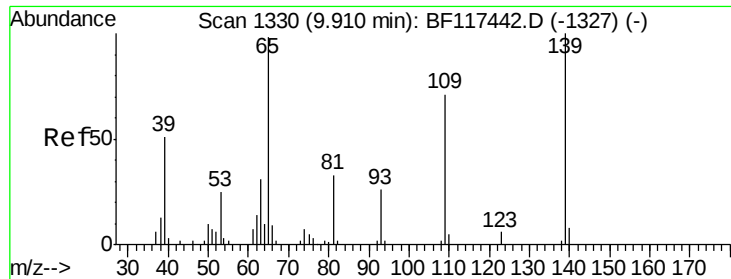


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

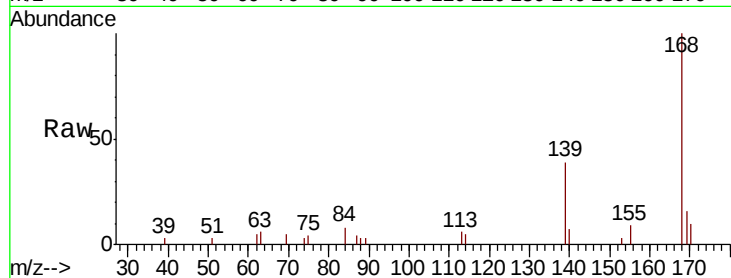




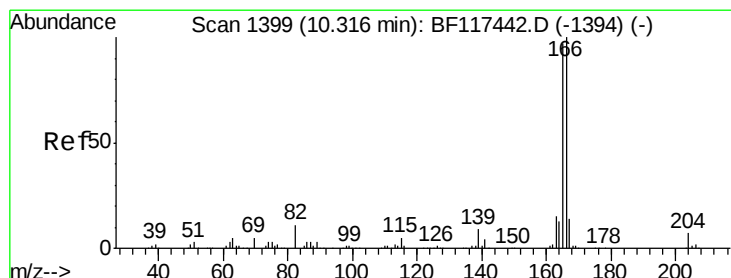
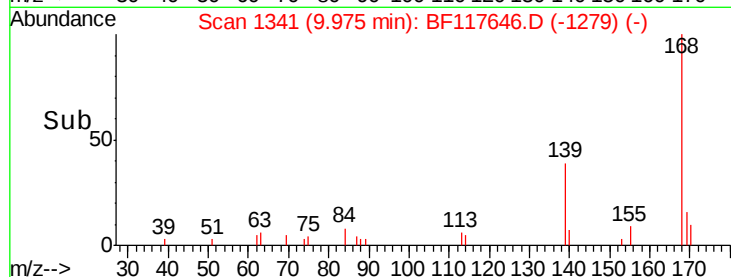
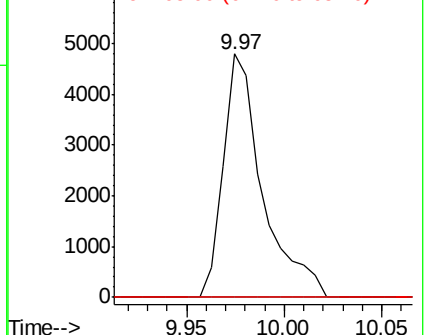
#56
4-Nitrophenol
Concen: 15.840 ng
RT: 9.97 min Scan# 1341
Delta R.T. 0.07 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 6677
Ion Ratio Lower Upper
139 100
109 0.0 51.4 91.4#
65 0.0 79.4 119.4#

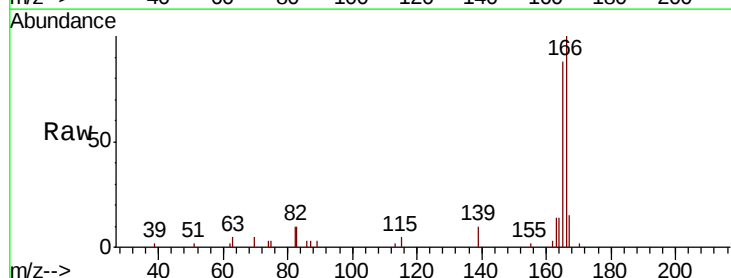


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

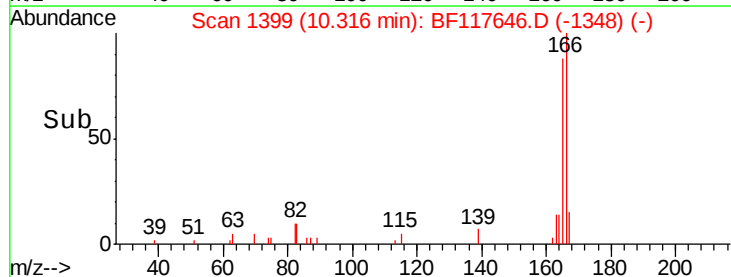
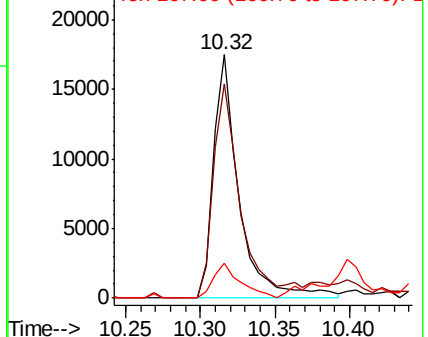


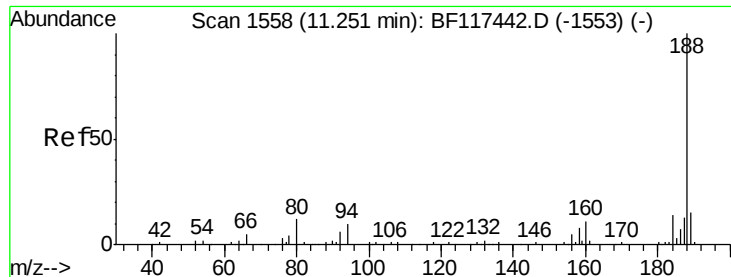
#58
Fluorene
Concen: 4.756 ng
RT: 10.32 min Scan# 1399
Delta R.T. -0.00 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

Tgt Ion:166 Resp: 20863
Ion Ratio Lower Upper
166 100
165 88.0 77.6 116.4
167 14.5 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

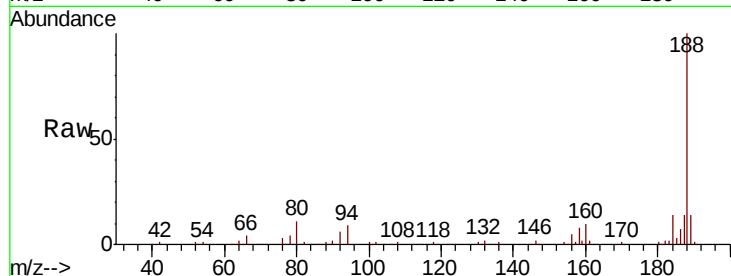




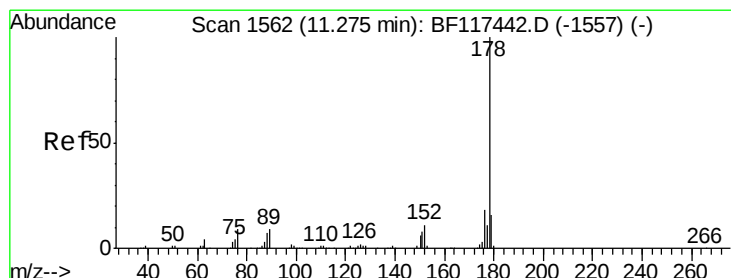
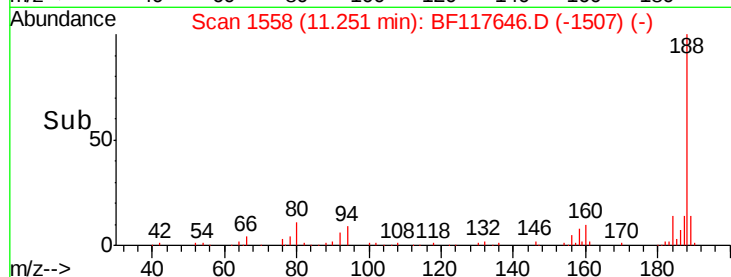
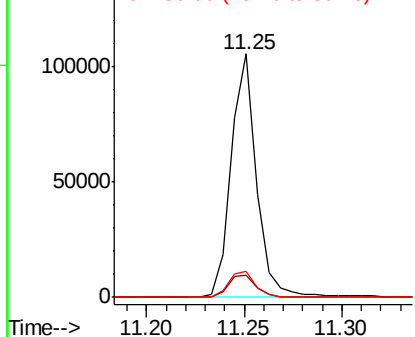
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.00 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 95063
Ion Ratio Lower Upper
188 100
94 9.0 8.0 12.0
80 10.8 9.5 14.3

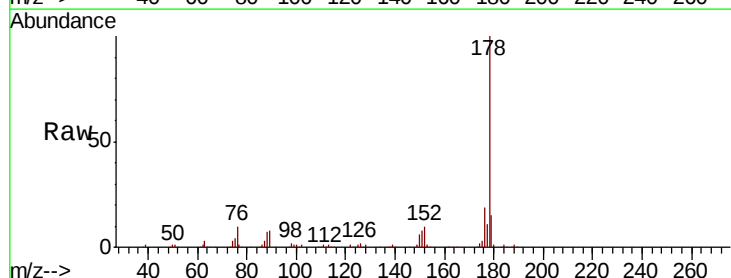


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

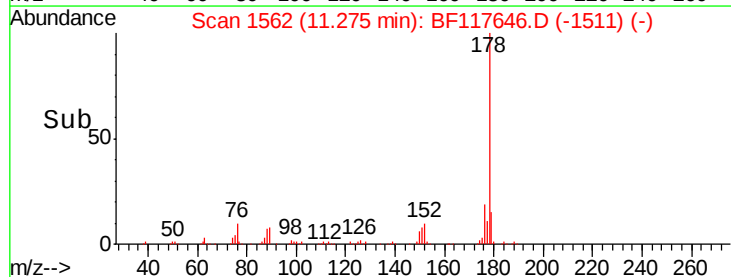
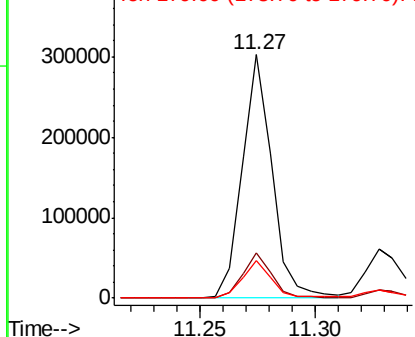


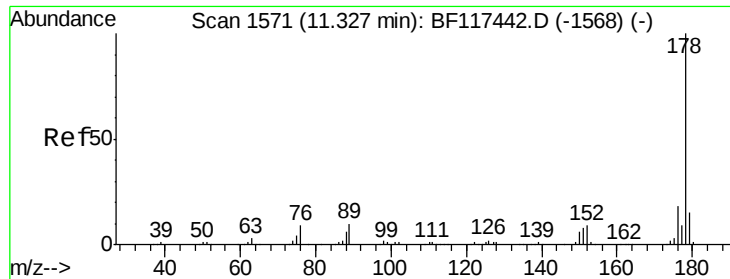
#71
Phenanthrene
Concen: 49.547 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

Tgt Ion:178 Resp: 273496
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.2 12.6 19.0



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

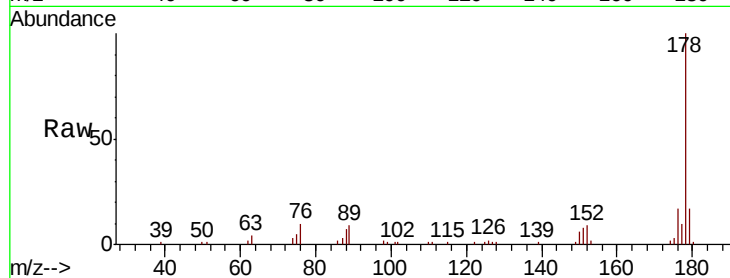




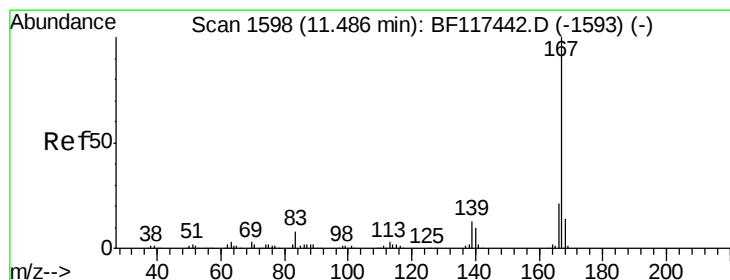
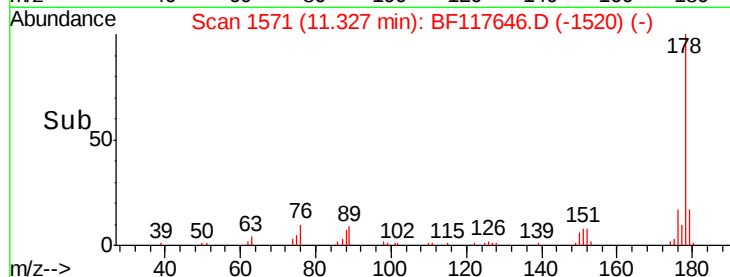
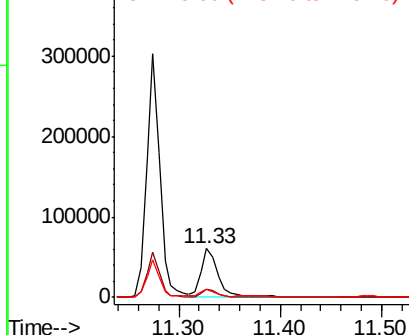
#72
 Anthracene
 Concen: 12.934 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: BF117646.D
 Acq: 31 Oct 2019 5:21

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 73258
 Ion Ratio Lower Upper
 178 100
 176 17.2 14.7 22.1
 179 17.1 12.2 18.2

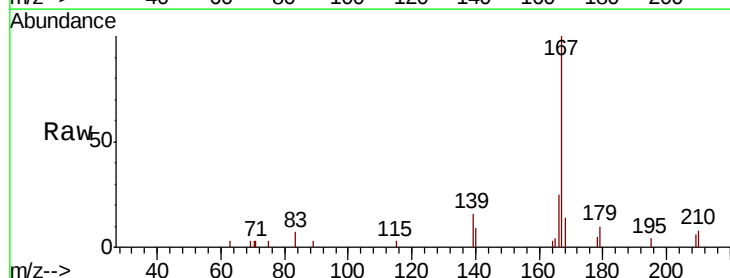


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

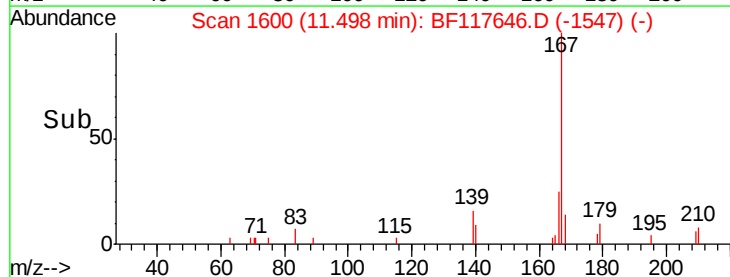
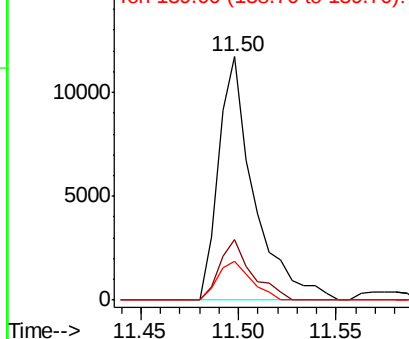


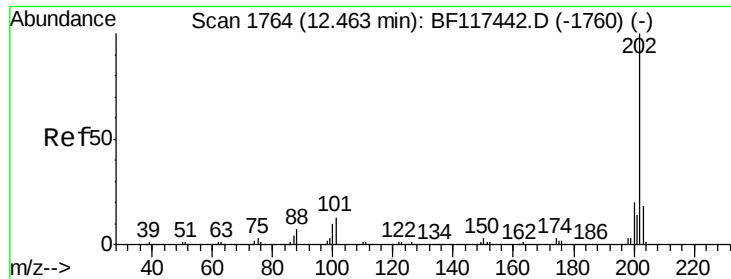
#73
 Carbazole
 Concen: 2.848 ng
 RT: 11.50 min Scan# 1600
 Delta R.T. 0.01 min
 Lab File: BF117646.D
 Acq: 31 Oct 2019 5:21

Tgt Ion:167 Resp: 14740
 Ion Ratio Lower Upper
 167 100
 166 24.7 17.0 25.6
 139 15.8 10.6 16.0



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: 44.116 ng

RT: 12.47 min Scan# 1765

Delta R.T. 0.01 min

Lab File: BF117646.D

Acq: 31 Oct 2019 5:21

Instrument :

BNA_F

ClientSampleId :

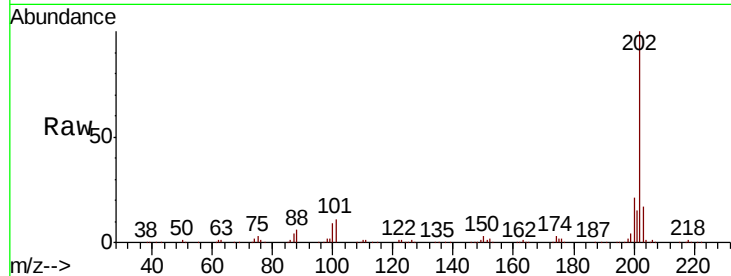
Tot Ion:202 Resp: 243783

Ion Ratio Lower Upper

202 100

101 11.2 0.0 32.7

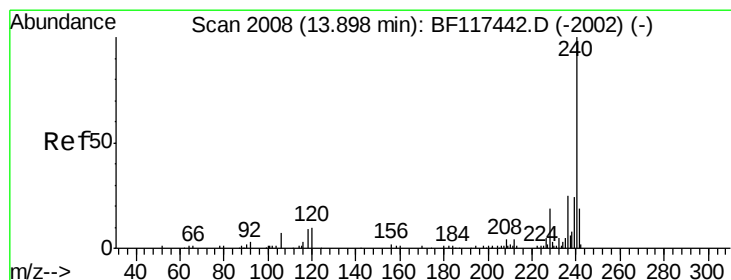
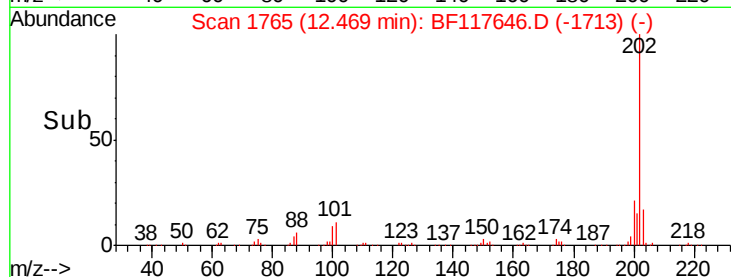
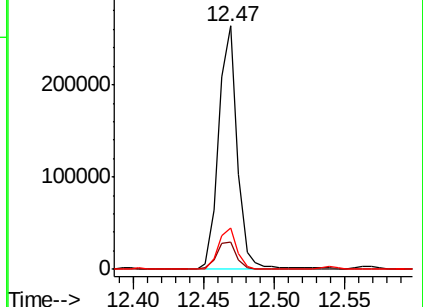
203 17.2 0.0 37.6



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: 13.90 min Scan# 2008

Delta R.T. -0.00 min

Lab File: BF117646.D

Acq: 31 Oct 2019 5:21

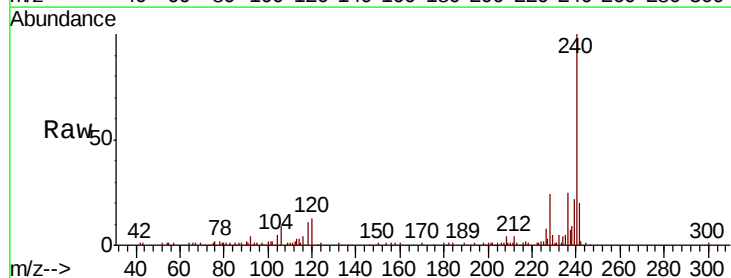
Tgt Ion:240 Resp: 71838

Ion Ratio Lower Upper

240 100

120 12.6 8.4 12.6#

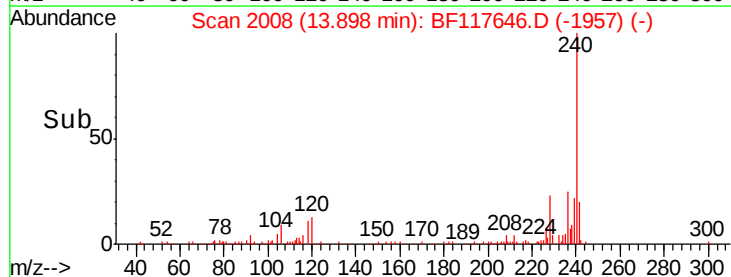
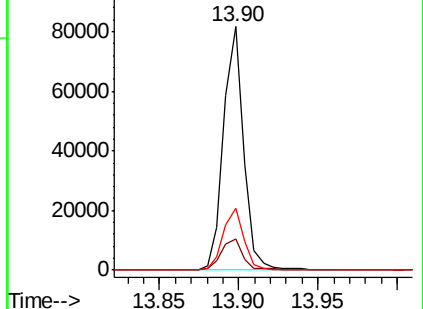
236 25.5 20.0 30.0

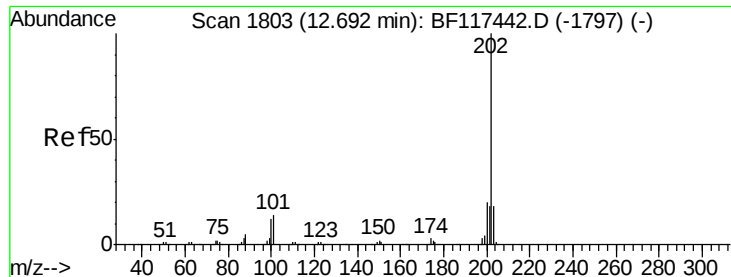


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

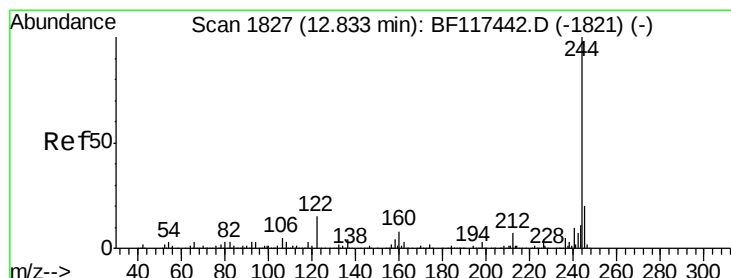
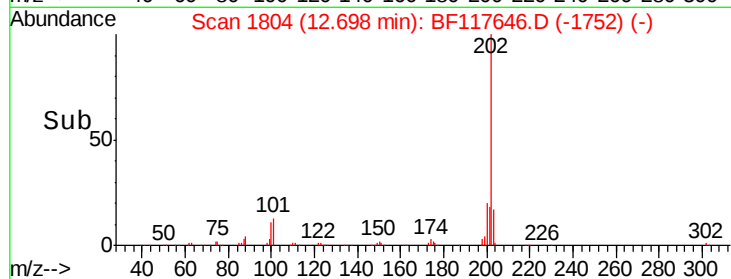
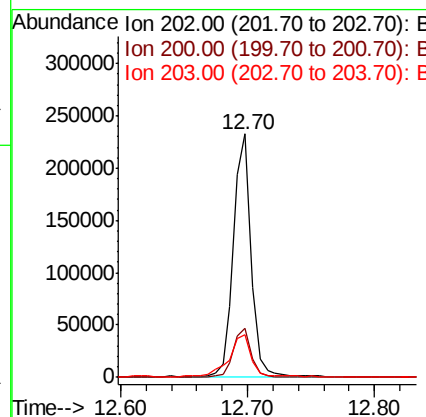
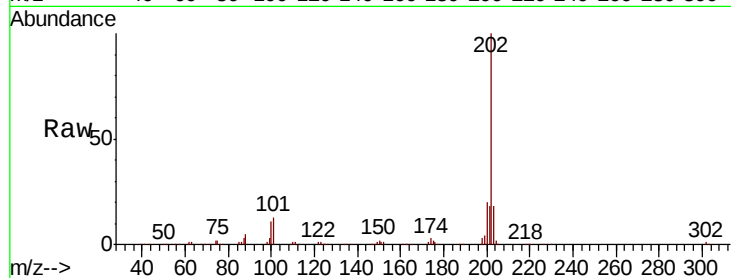




#78
Pvrene
Concen: 36.179 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

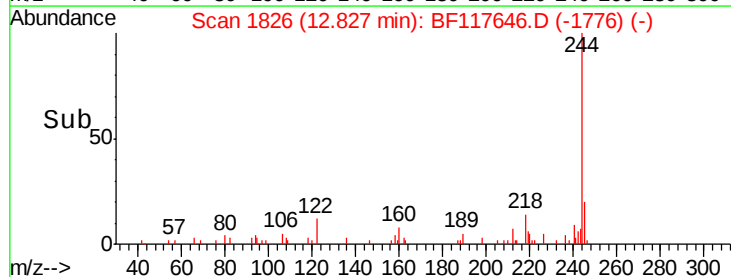
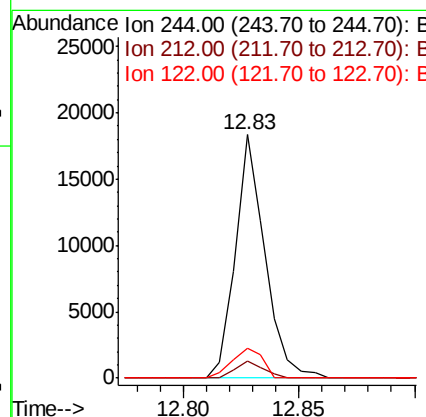
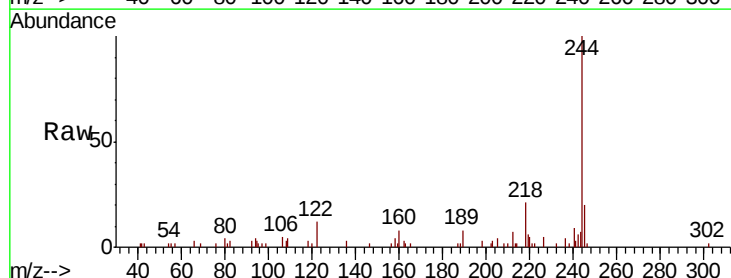
Instrument :
BNA_F
ClientSampleId :

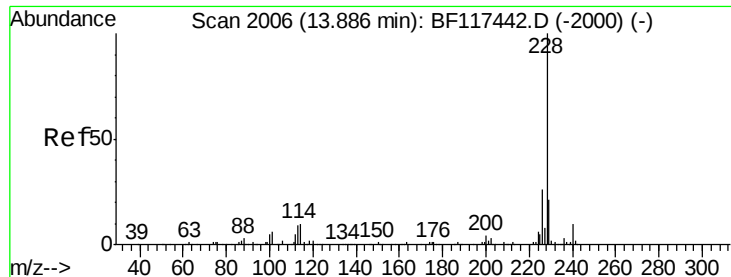
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.2	24.2
203	17.7	14.0	21.0



#79
Terphenyl-d14
Concen: 3.703 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.8	8.6
122	12.4	11.8	17.8





#81

Benzo(a)anthracene

Concen: 19.144 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.00 min

Lab File: BF117646.D

Acq: 31 Oct 2019 5:21

Instrument :

BNA_F

ClientSampleId :

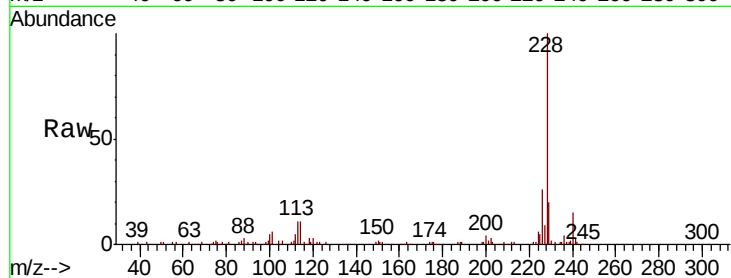
Tot Ion:228 Resp: 92768

Ion Ratio Lower Upper

228 100

226 26.1 21.0 31.4

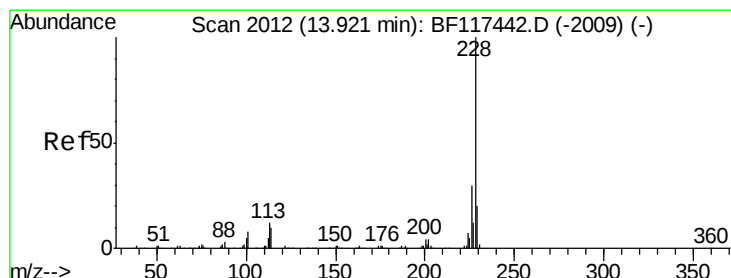
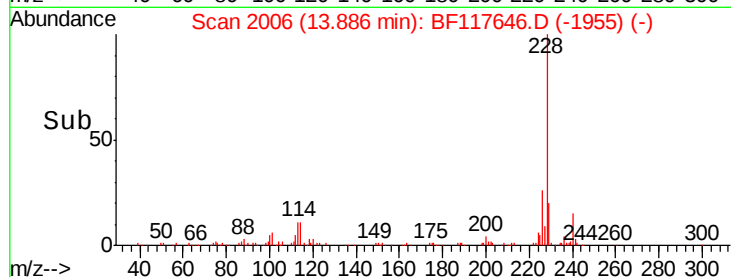
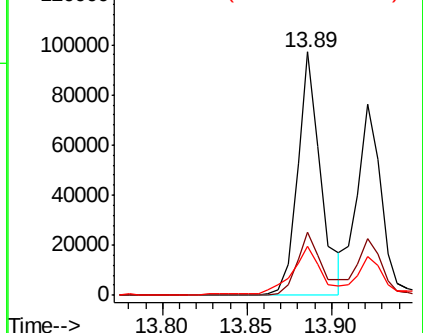
229 20.4 16.4 24.6



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: 15.740 ng

RT: 13.92 min Scan# 2012

Delta R.T. -0.00 min

Lab File: BF117646.D

Acq: 31 Oct 2019 5:21

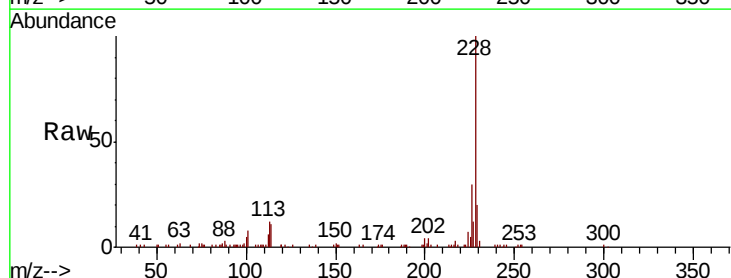
Tgt Ion:228 Resp: 74750

Ion Ratio Lower Upper

228 100

226 29.8 23.9 35.9

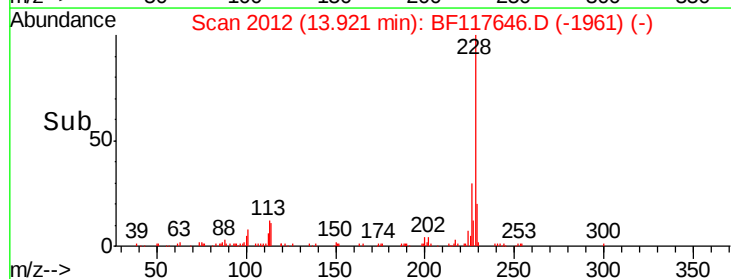
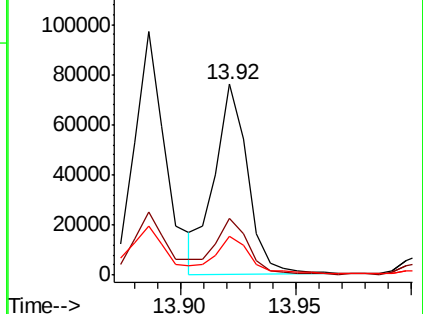
229 20.1 15.8 23.6

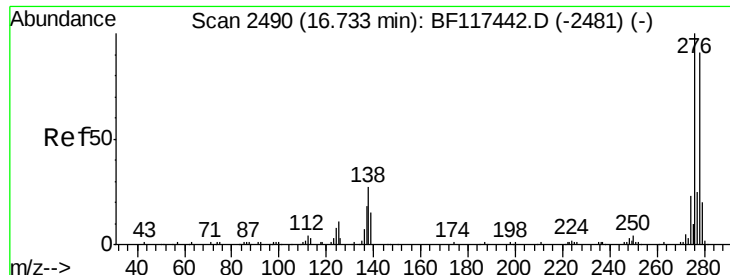


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

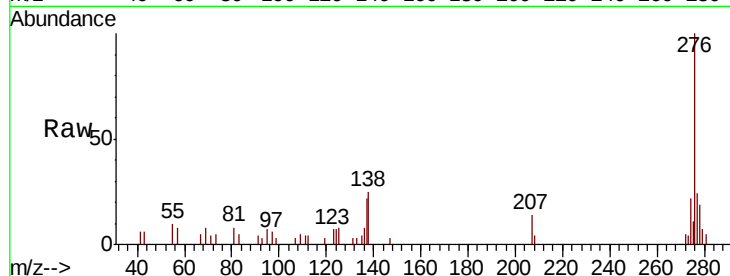




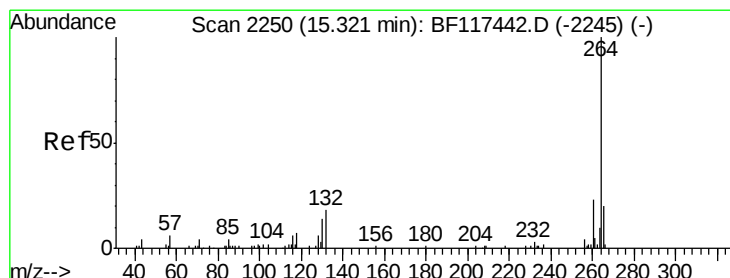
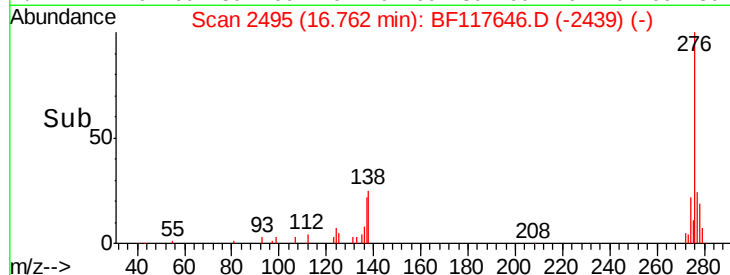
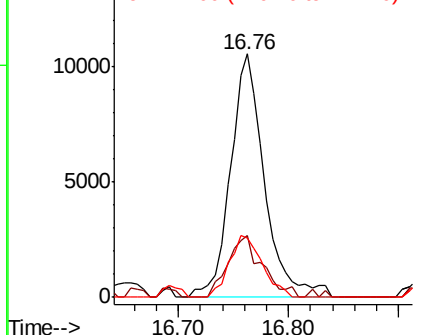
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.402 ng
 RT: 16.76 min Scan# 2495
 Delta R.T. 0.03 min
 Lab File: BF117646.D
 Acq: 31 Oct 2019 5:21

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.4	21.8	32.8
277	24.7	20.0	30.0

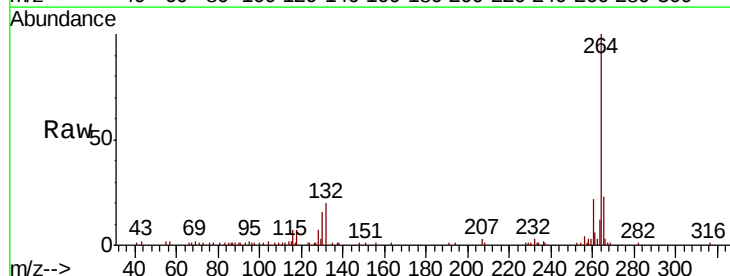


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

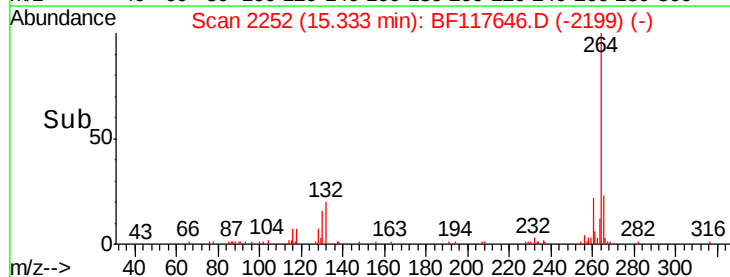
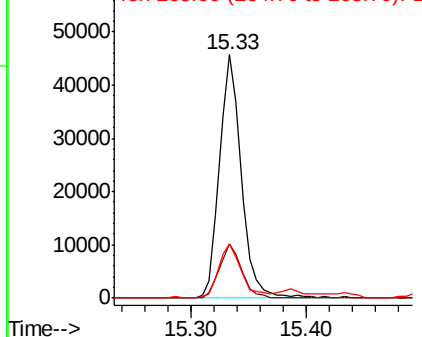


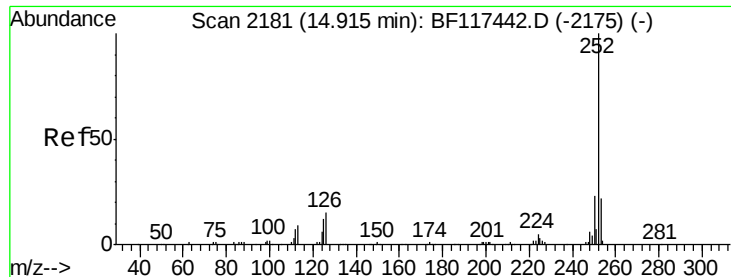
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.33 min Scan# 2252
 Delta R.T. 0.01 min
 Lab File: BF117646.D
 Acq: 31 Oct 2019 5:21

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.2	18.4	27.6
265	22.5	16.1	24.1



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

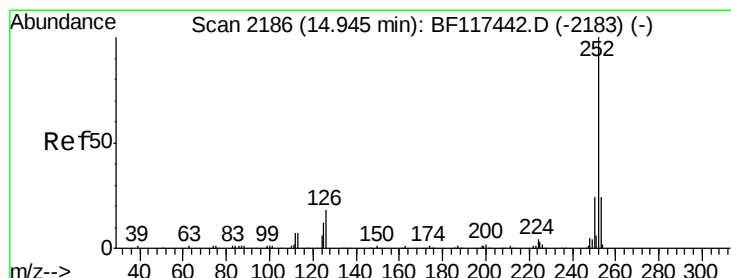
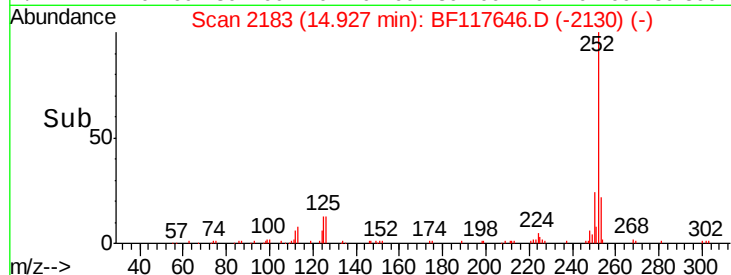
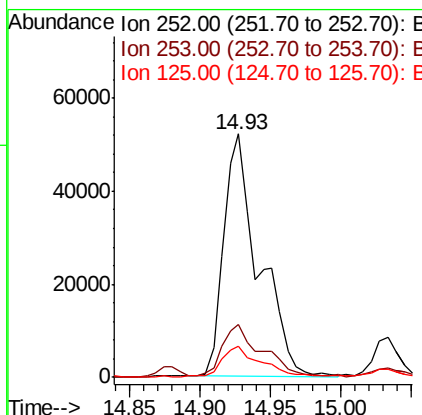
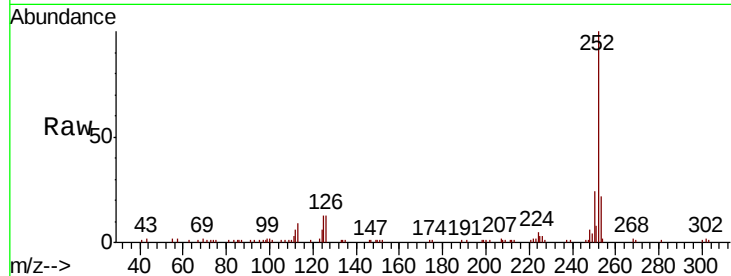




#88
Benzo(b)fluoranthene
Concen: 25.452 ng
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

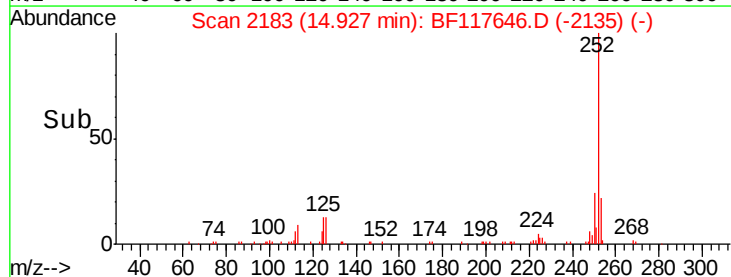
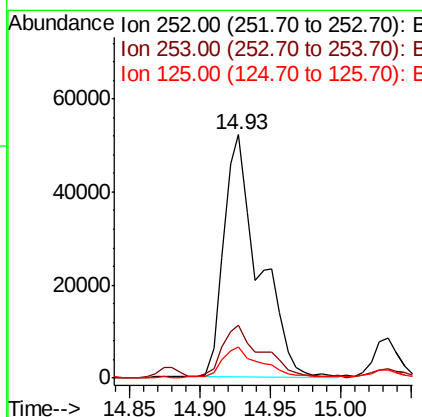
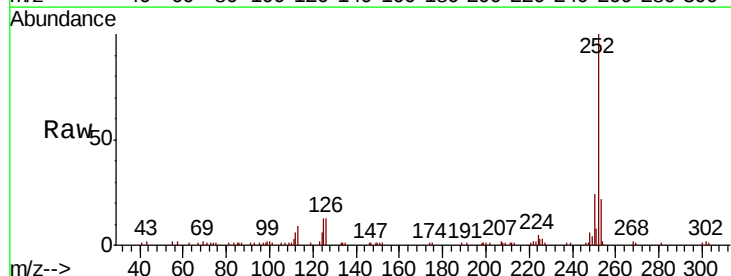
Instrument :
BNA_F
ClientSampleId :

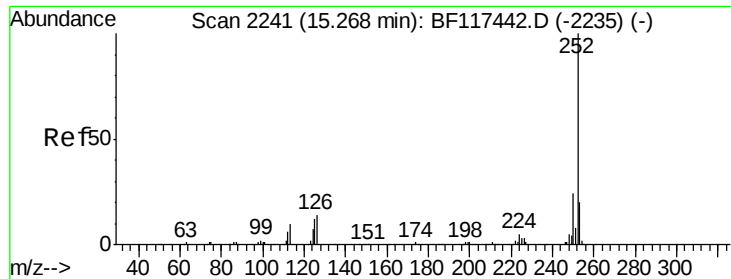
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	12.7	9.9	14.9



#89
Benzo(k)fluoranthene
Concen: 24.833 ng
RT: 14.93 min Scan# 2183
Delta R.T. -0.02 min
Lab File: BF117646.D
Acq: 31 Oct 2019 5:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.0	27.0
125	12.7	8.9	13.3





#90

Benzo(a)pyrene

Concen: 15.108 ng

RT: 15.27 min Scan# 2242

Delta R.T. 0.01 min

Lab File: BF117646.D

Acq: 31 Oct 2019 5:21

Instrument :

BNA_F

ClientSampled :

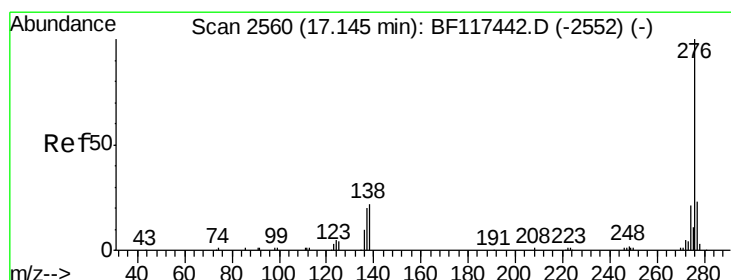
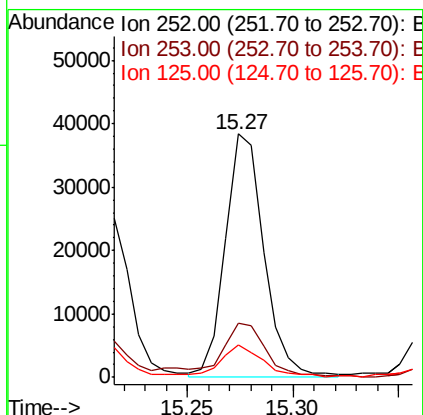
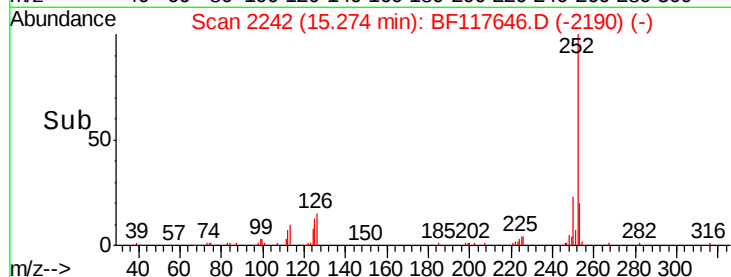
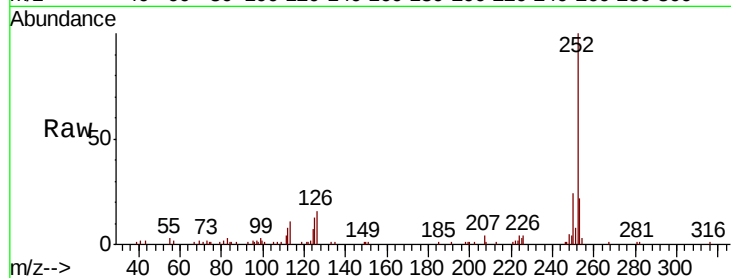
Tot Ion:252 Resp: 48881

Ion Ratio Lower Upper

252 100

253 22.4 16.3 24.5

125 13.4 9.2 13.8



#92

Benzo(g,h,i)perylene

Concen: 7.576 ng

RT: 17.19 min Scan# 2568

Delta R.T. 0.05 min

Lab File: BF117646.D

Acq: 31 Oct 2019 5:21

Tgt Ion:276 Resp: 20053

Ion Ratio Lower Upper

276 100

277 27.2 18.4 27.6

138 30.8 17.8 26.6#

