

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
 Data File : BF117611.D
 Acq On : 30 Oct 2019 1:13
 Operator : JU
 Sample : K5576-18 5X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 30 06:59:26 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	36763	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	148234	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	67344	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	99680	20.00	ng	0.00
76) Chrysene-d12	13.90	240	66406	20.00	ng	0.00
87) Perylene-d12	15.33	264	54481	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.37	112	34544	13.98	ng	0.02
7) Phenol-d6	6.40	99	52117	15.70	ng	0.02
23) Nitrobenzene-d5	7.30	82	28714	9.56	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	7971	13.68	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	55359	11.58	ng	0.00
79) Terphenyl-d14	12.83	244	49526	12.16	ng	0.00

Target Compounds

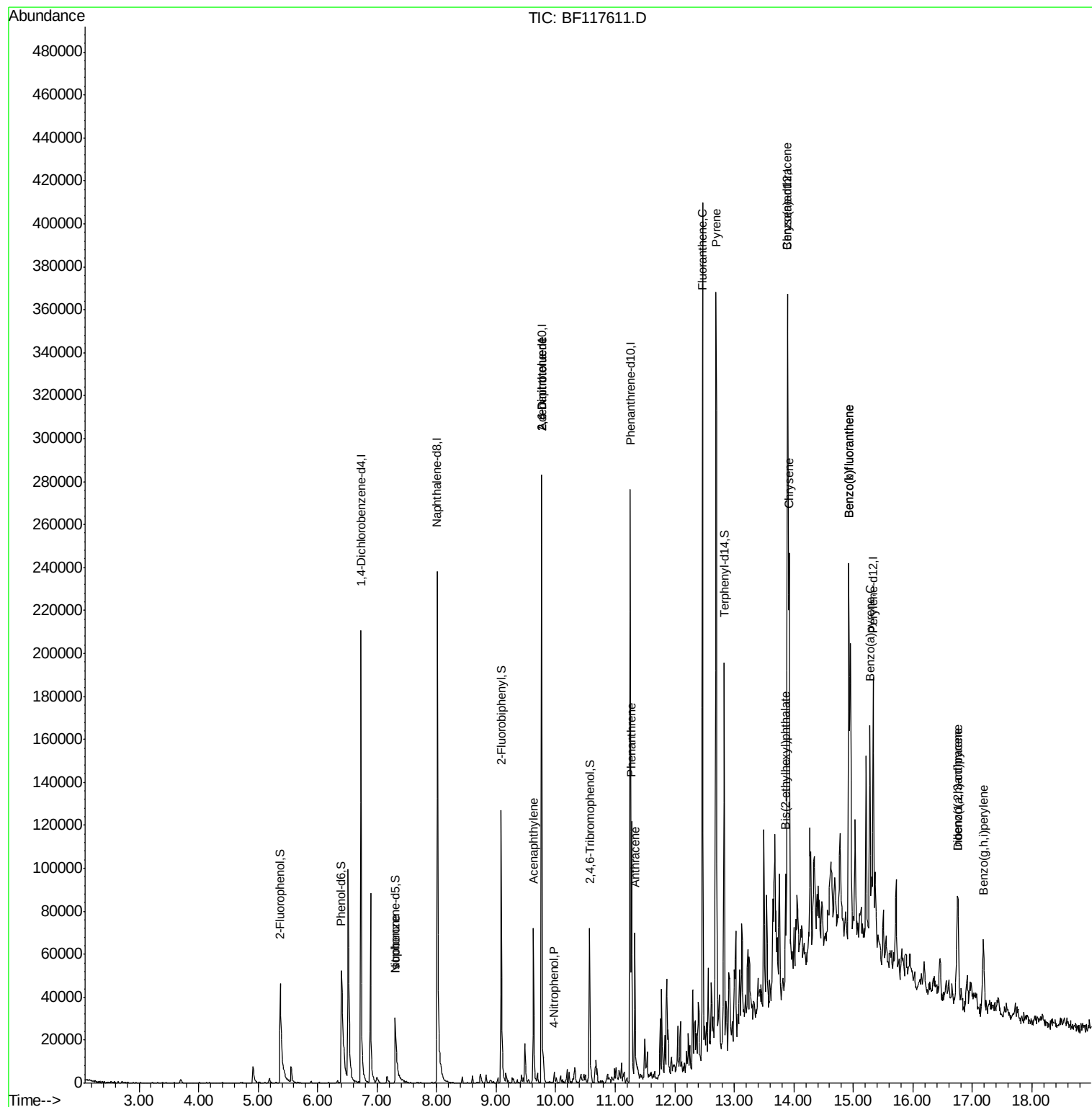
						Qvalue
9) Benzaldehyde	6.33	77	466	Below Cal	#	62
25) Isophorone	7.30	82	28714	5.528 ng	#	65
49) Acenaphthylene	9.62	152	41853	6.778 ng		97
51) 2,6-Dinitrotoluene	9.76	165	8313	8.298 ng	#	22
56) 4-Nitrophenol	9.97	139	954	5.747 ng	#	6
57) 2,4-Dinitrotoluene	9.76	165	8313	6.241 ng	#	12
71) Phenanthrene	11.27	178	46197	7.981 ng		97
72) Anthracene	11.33	178	34345	5.783 ng		98
75) Fluoranthene	12.46	202	158580	27.368 ng		100
77) Benzidine	12.83	184	601	Below Cal	#	67
78) Pyrene	12.69	202	143698	25.193 ng		99
81) Benzo(a)anthracene	13.89	228	80825	18.044 ng		97
83) Chrysene	13.92	228	67014	15.265 ng		98
84) Bis(2-ethylhexyl)phthalate	13.86	149	16060	4.039 ng	#	98
86) Indeno(1,2,3-cd)pyrene	16.75	276	33069	10.089 ng		99
88) Benzo(b)fluoranthene	14.92	252	114330	35.537 ng		96
89) Benzo(k)fluoranthene	14.92	252	114330	34.673 ng	#	96
90) Benzo(a)pyrene	15.27	252	47166	16.125 ng		95
91) Dibenzo(a,h)anthracene	16.74	278	7332	2.899 ng	#	79
92) Benzo(a,h,i)perylene	17.18	276	28106	11.745 ng		97

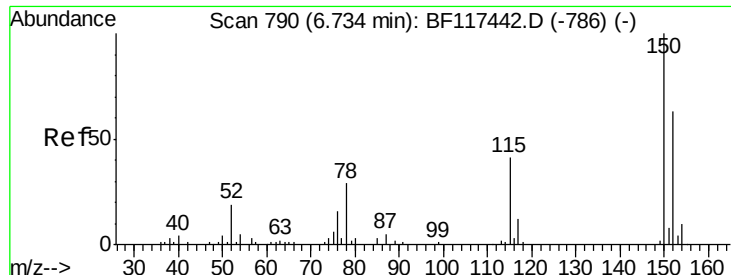
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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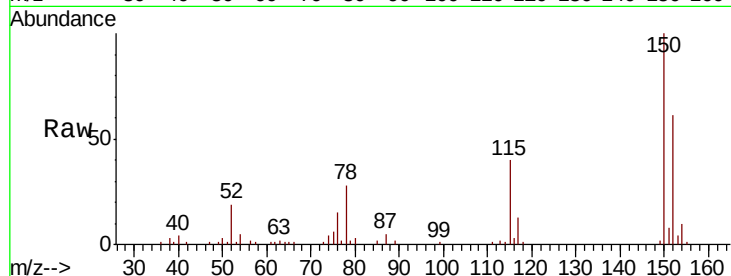


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	164.0	126.8	190.2
115	65.1	51.6	77.4

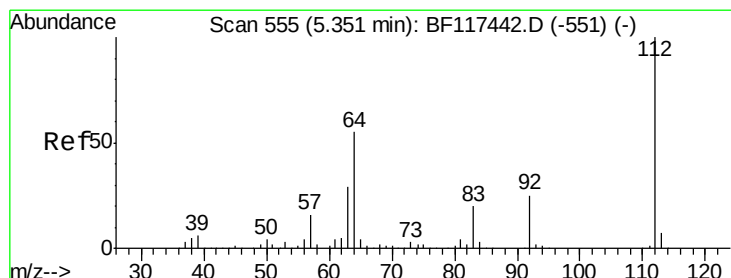
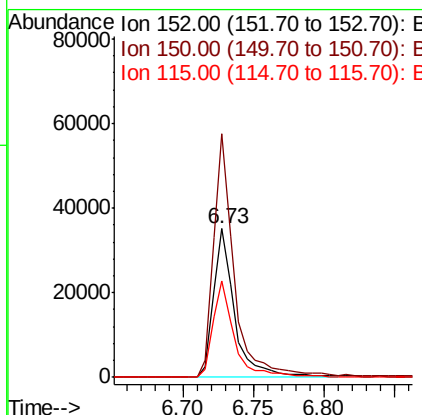
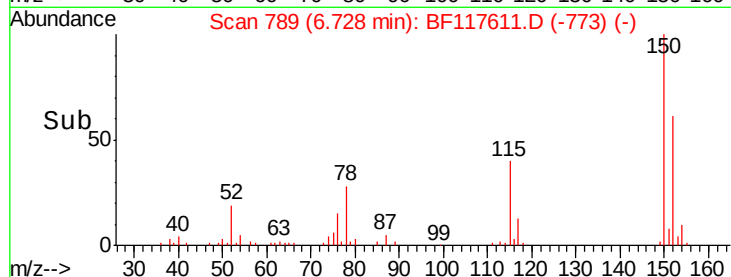


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

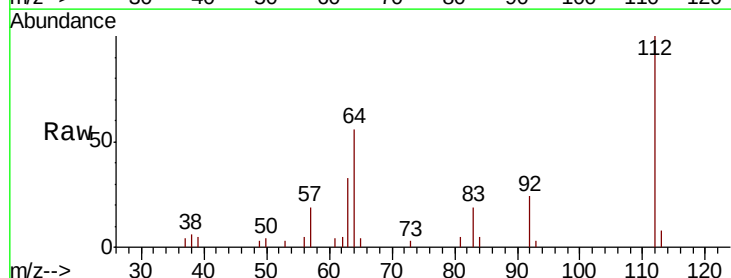
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 13.979 ng
RT: 5.37 min Scan# 558
Delta R.T. 0.02 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.2	44.1	66.1
63	32.7	23.4	35.2

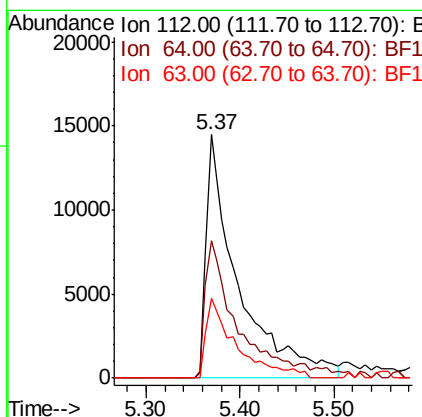
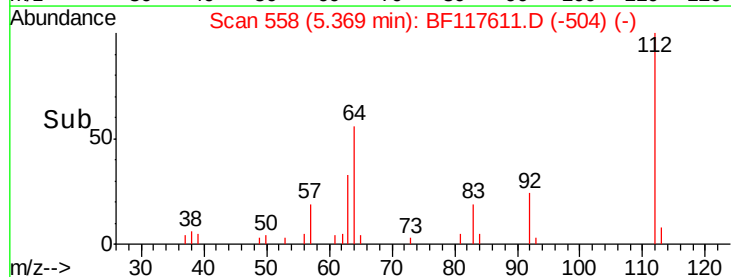


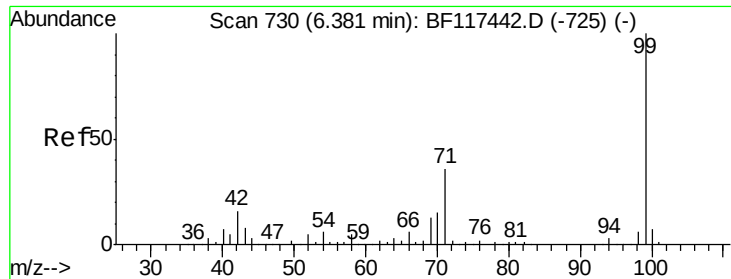
Abundance

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: 15.703 ng

RT: 6.40 min Scan# 734

Delta R.T. 0.02 min

Lab File: BF117611.D

Acq: 30 Oct 2019 1:13

Instrument :

BNA_F

ClientSampled :

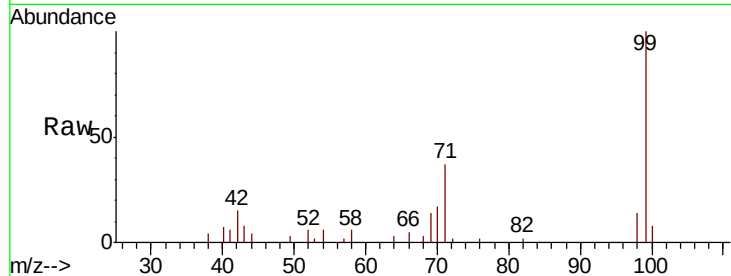
Tot Ion: 99 Resp: 52117

Ion Ratio Lower Upper

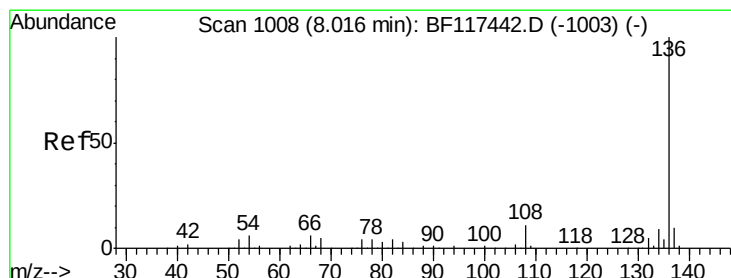
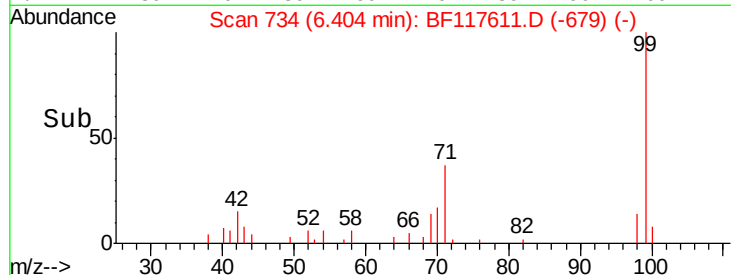
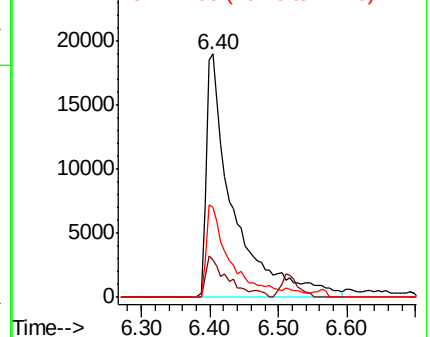
99 100

42 15.4 12.8 19.2

71 36.8 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: BF117611.D

Acq: 30 Oct 2019 1:13

Tgt Ion: 136 Resp: 148234

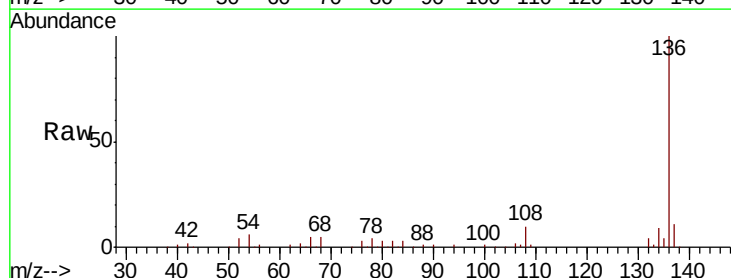
Ion Ratio Lower Upper

136 100

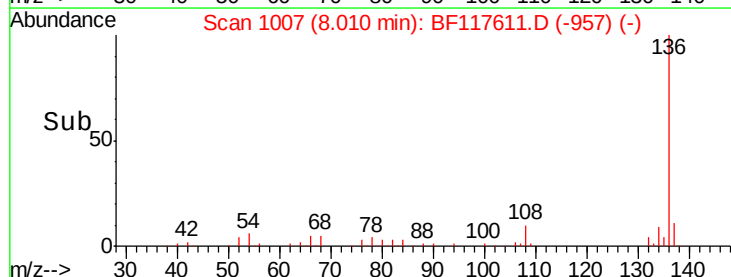
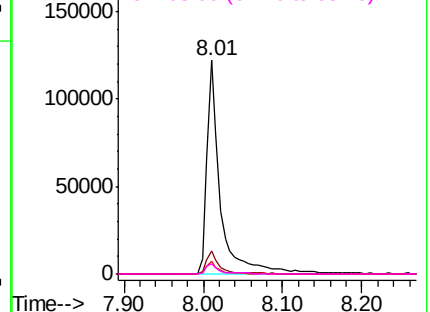
137 10.6 8.2 12.4

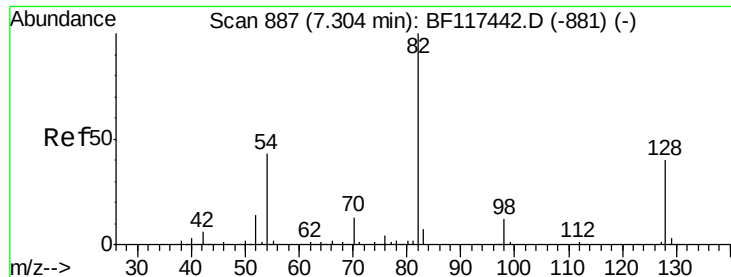
54 5.8 4.5 6.7

68 4.9 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

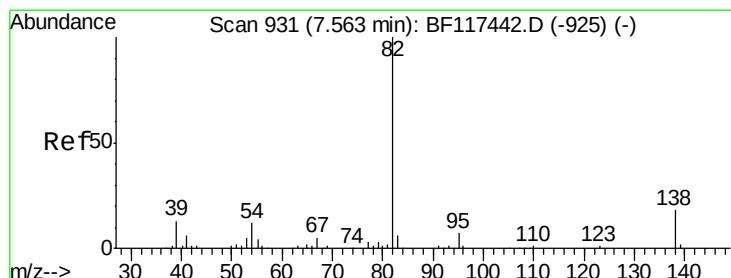
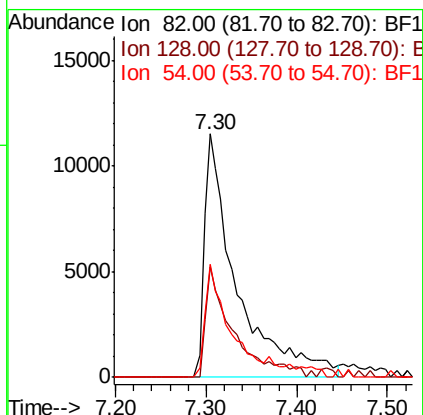
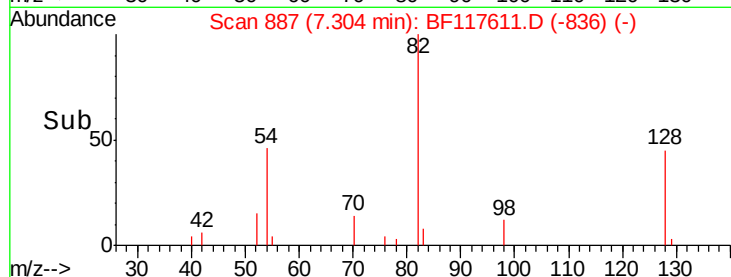
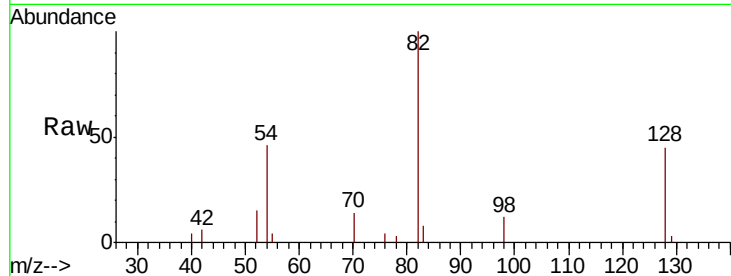




#23
Nitrobenzene-d5
Concen: 9.563 ng
RT: 7.30 min Scan# 887
Delta R.T. 0.00 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

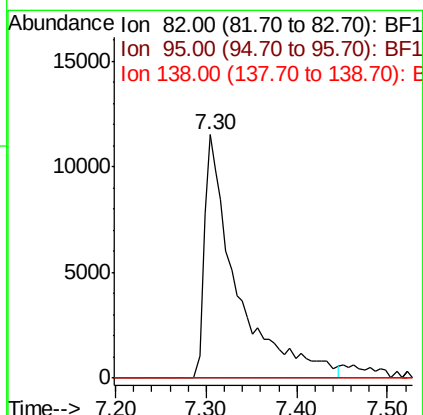
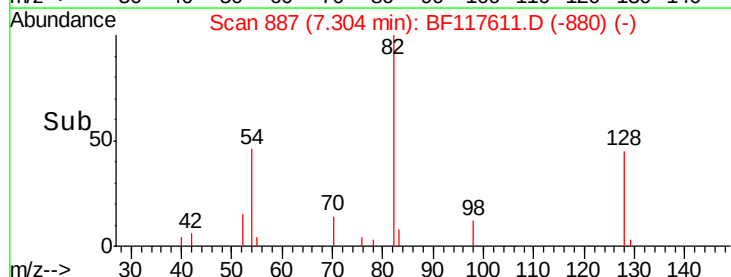
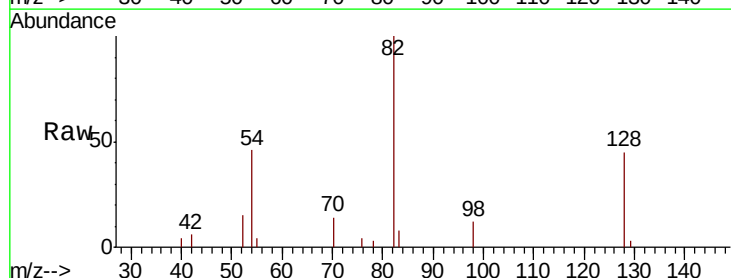
Instrument :
BNA_F
ClientSampleId :

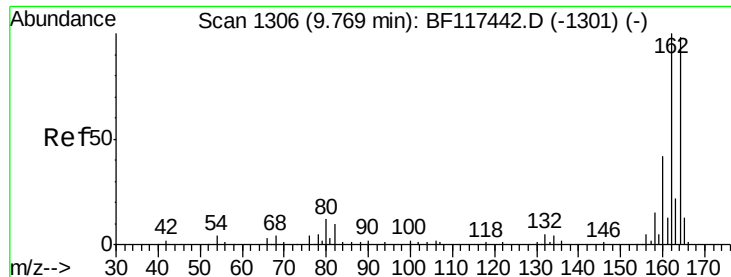
Tot Ion	82	Resp	28714
Ion Ratio	Lower	Upper	
82	100		
128	45.2	32.2	48.2
54	46.4	34.2	51.2



#25
Isophorone
Concen: 5.528 ng
RT: 7.30 min Scan# 887
Delta R.T. -0.26 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Tgt Ion	82	Resp	28714
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.4	8.0#
138	0.0	14.2	21.2#

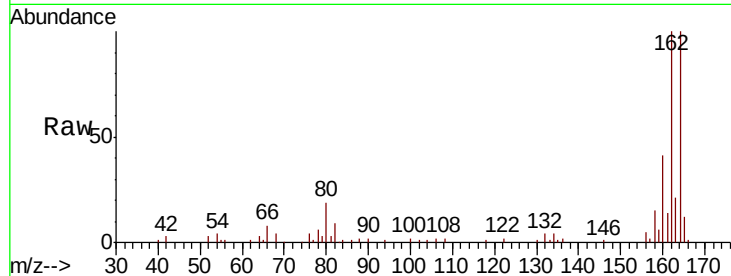




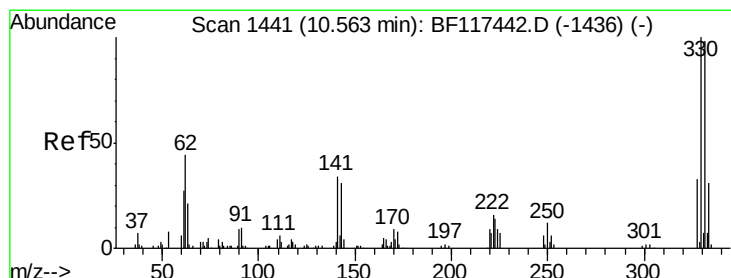
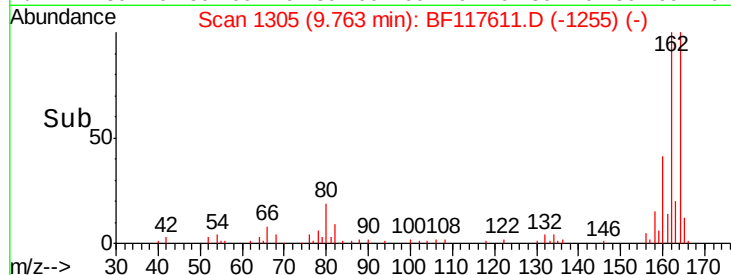
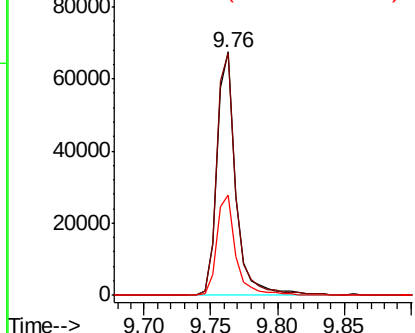
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Instrument :
BNA_F
ClientSampled :

Tot Ion:164 Resp: 67344
Ion Ratio Lower Upper
164 100
162 99.6 81.8 122.6
160 41.1 34.4 51.6

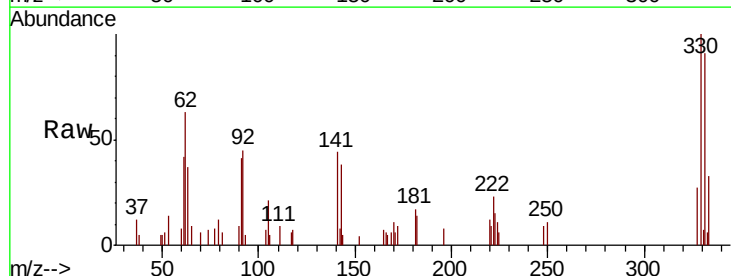


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

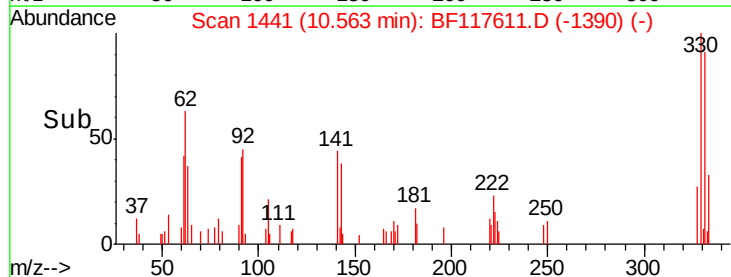
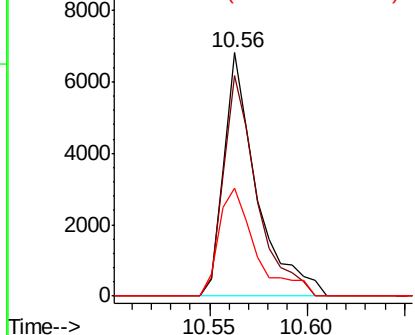


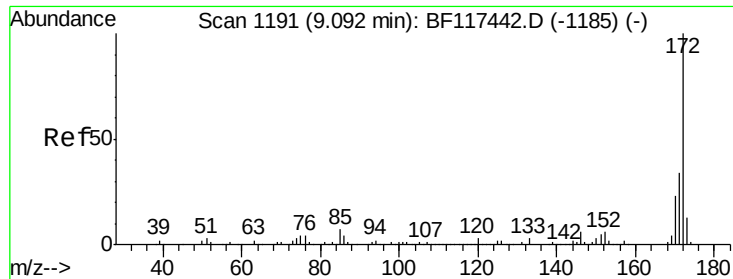
#42
2,4,6-Tribromophenol
Concen: 13.679 ng
RT: 10.56 min Scan# 1441
Delta R.T. 0.00 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Tgt Ion:330 Resp: 7971
Ion Ratio Lower Upper
330 100
332 91.4 78.5 117.7
141 49.7 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

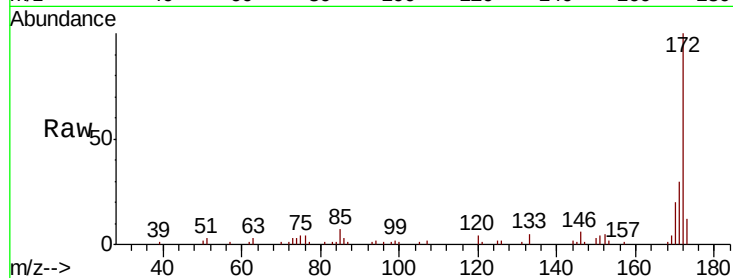




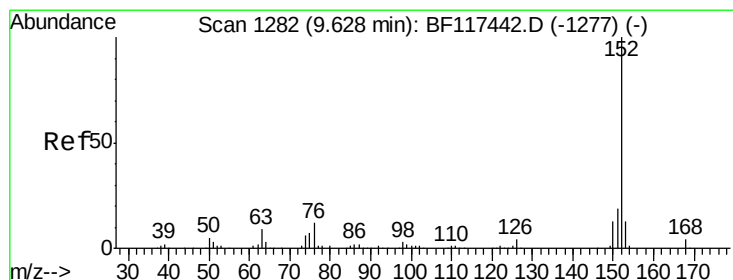
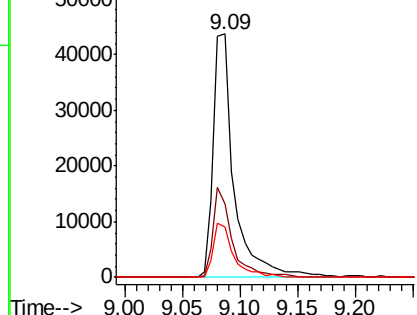
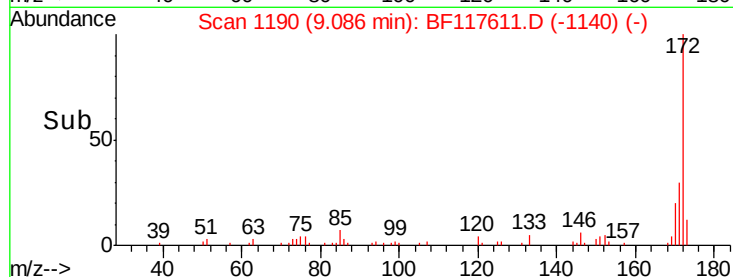
#45
2-Fluorobiphenyl
Concen: 11.582 ng
RT: 9.09 min Scan# 1190
Delta R.T. -0.01 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 55359
Ion Ratio Lower Upper
172 100
171 30.4 27.5 41.3
170 20.5 18.6 27.8

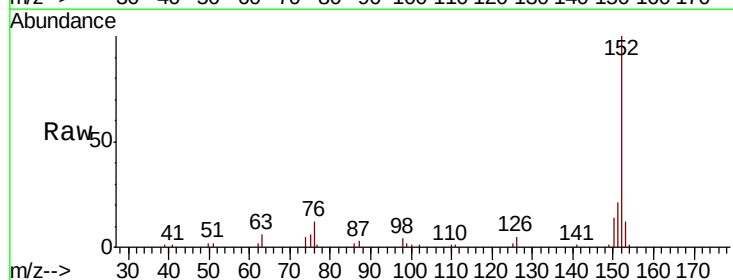


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

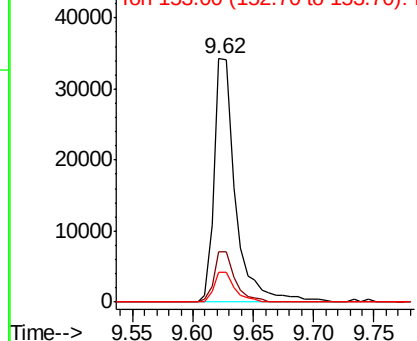
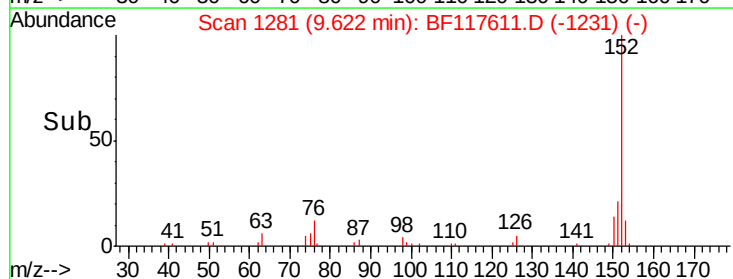


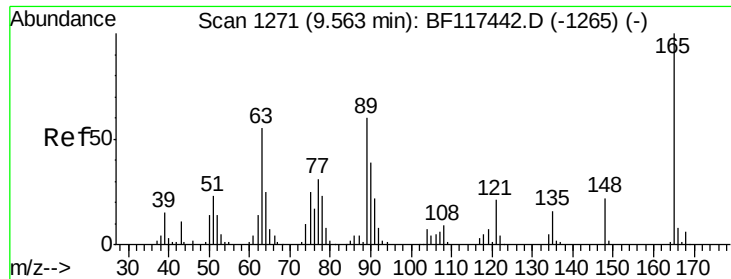
#49
Acenaphthylene
Concen: 6.778 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Tgt Ion:152 Resp: 41853
Ion Ratio Lower Upper
152 100
151 20.8 15.4 23.0
153 12.3 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

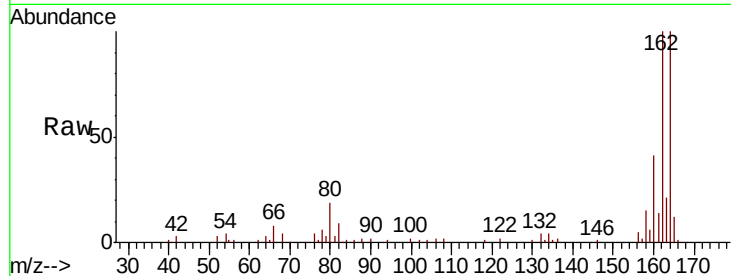




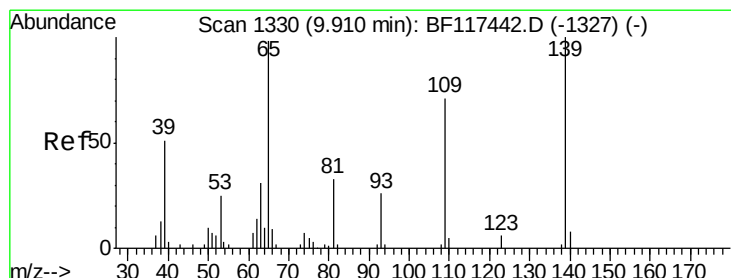
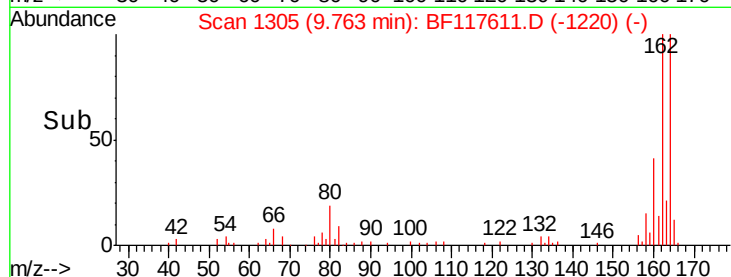
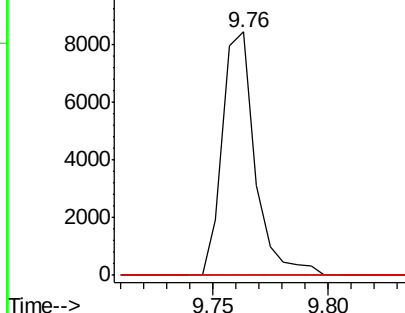
#51
 2,6-Dinitrotoluene
 Concen: 8.298 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. 0.20 min
 Lab File: BF117611.D
 Acq: 30 Oct 2019 1:13

Instrument :
 BNA_F
 ClientSampleId :

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

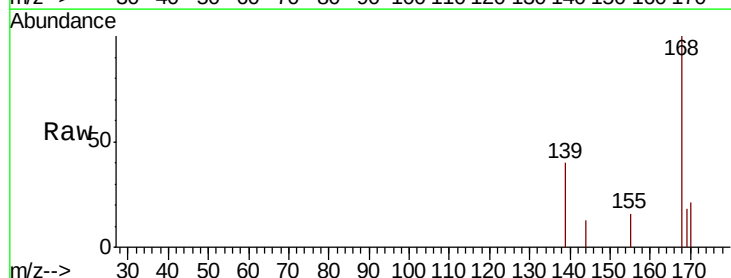


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

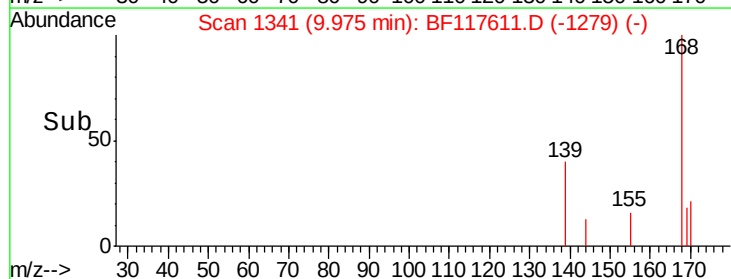
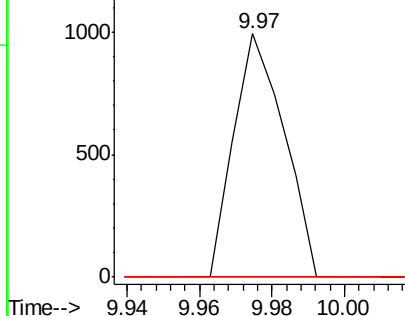


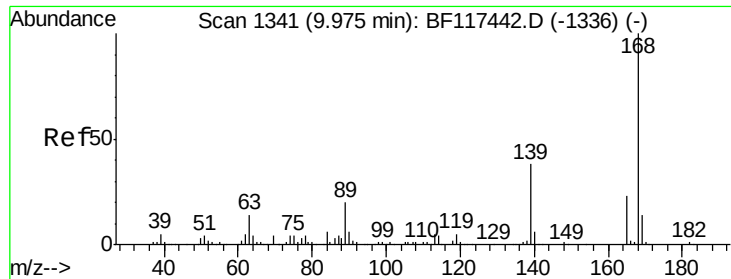
#56
 4-Nitrophenol
 Concen: 5.747 ng
 RT: 9.97 min Scan# 1341
 Delta R.T. 0.07 min
 Lab File: BF117611.D
 Acq: 30 Oct 2019 1:13

Tgt 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

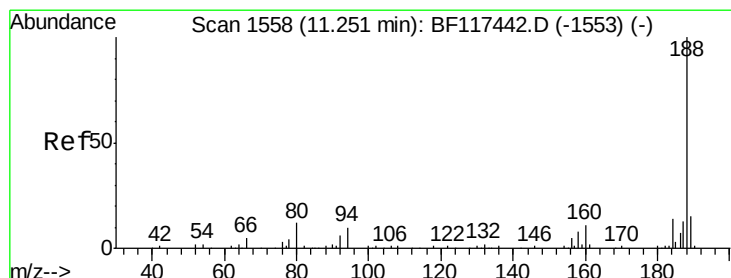
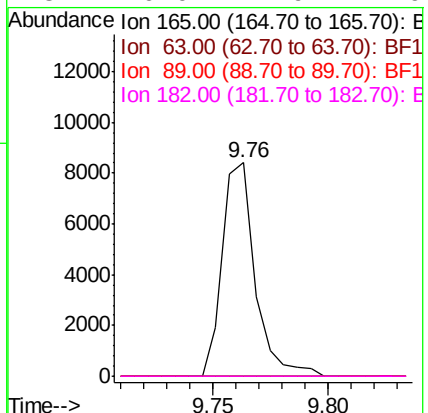
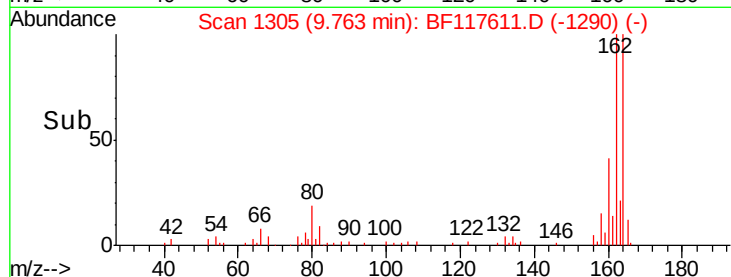
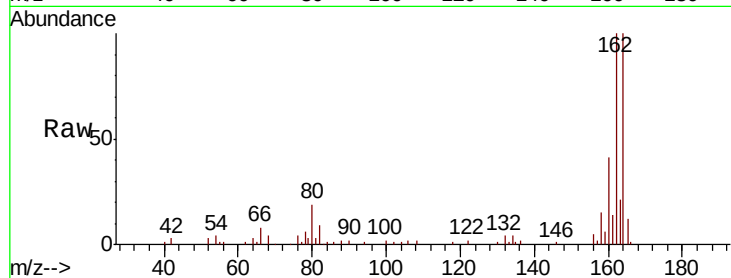




#57
 2,4-Dinitrotoluene
 Concen: 6.241 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.21 min
 Lab File: BF117611.D
 Acq: 30 Oct 2019 1:13

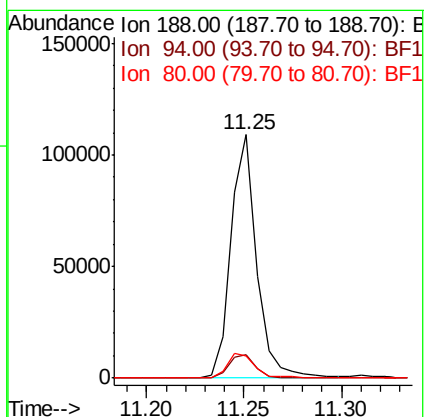
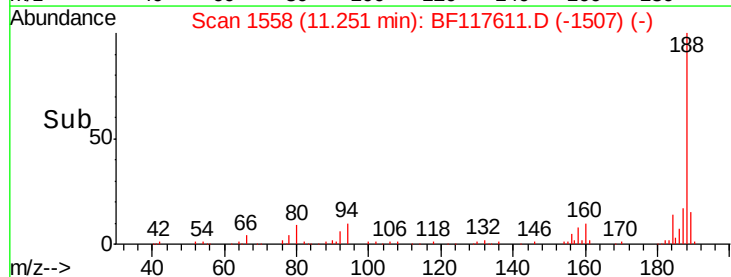
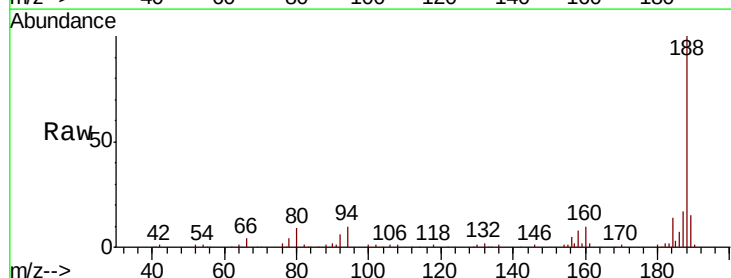
Instrument :
 BNA_F
 ClientSampleId :

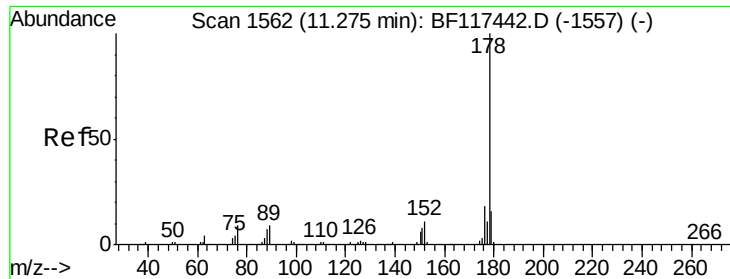
Tot Ion:165 Resp: 8313
 Ion Ratio Lower Upper
 165 100
 63 0.0 51.4 77.0#
 89 0.0 69.9 104.9#
 182 0.0 1.9 2.9#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: BF117611.D
 Acq: 30 Oct 2019 1:13

Tgt Ion:188 Resp: 99680
 Ion Ratio Lower Upper
 188 100
 94 9.6 8.0 12.0
 80 9.3 9.5 14.3#

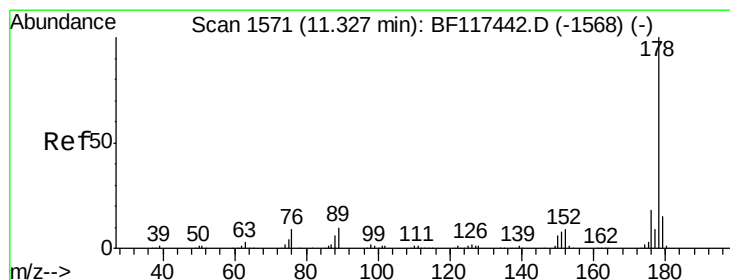
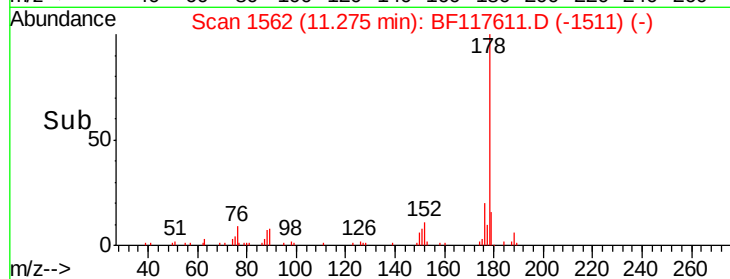
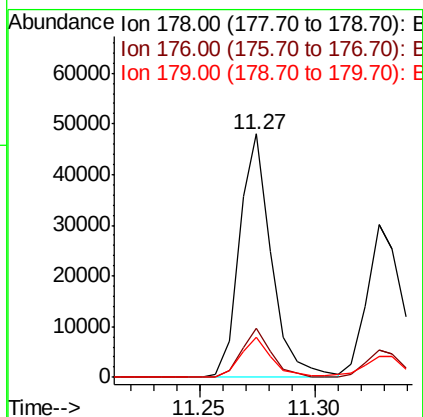
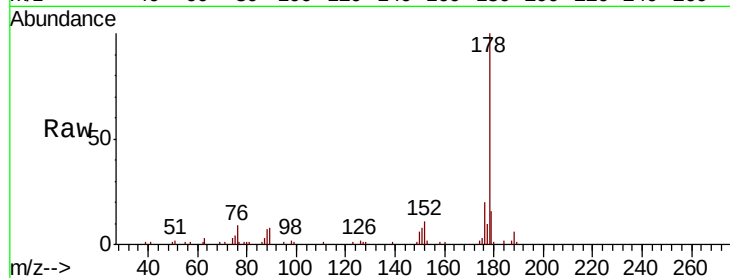




#71
Phenanthrene
Concen: 7.981 ng
RT: 11.27 min Scan# 1562
Delta R.T. 0.00 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

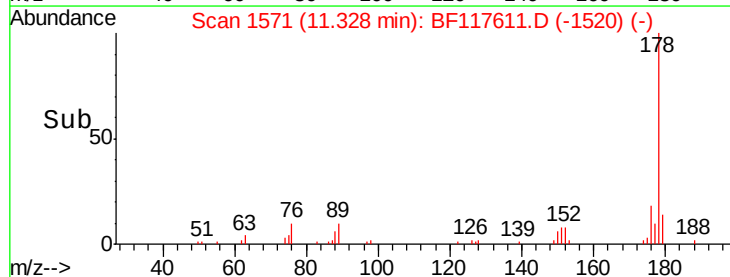
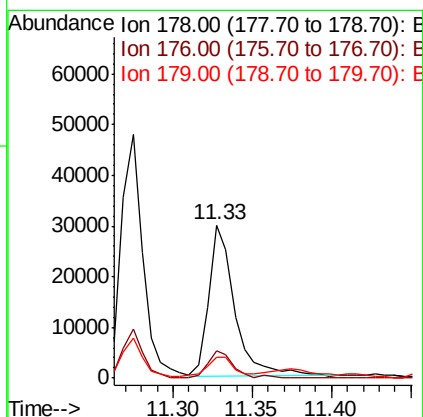
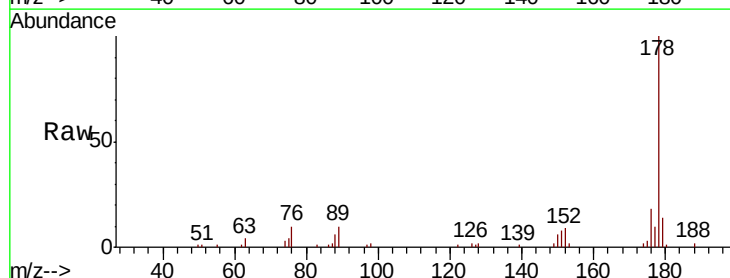
Instrument :
BNA_F
ClientSampleId :

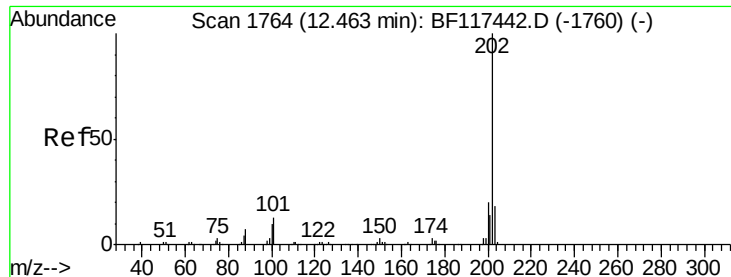
Tot Ion:178 Resp: 46197
Ion Ratio Lower Upper
178 100
176 20.0 14.6 22.0
179 16.4 12.6 19.0



#72
Anthracene
Concen: 5.783 ng
RT: 11.33 min Scan# 1571
Delta R.T. 0.00 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Tgt Ion:178 Resp: 34345
Ion Ratio Lower Upper
178 100
176 17.8 14.7 22.1
179 14.0 12.2 18.2





#75

Fluoranthene

Concen: 27.368 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.00 min

Lab File: BF117611.D

Acq: 30 Oct 2019 1:13

Instrument :

BNA_F

ClientSampleId :

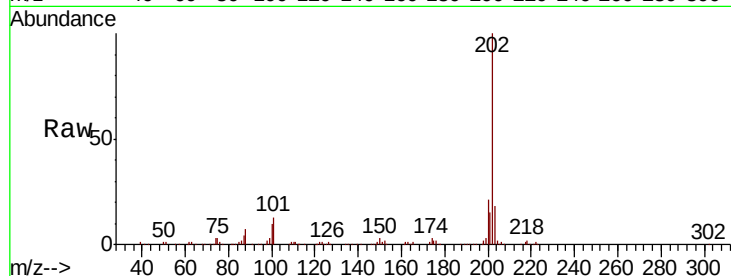
Tot Ion:202 Resp: 158580

Ion Ratio Lower Upper

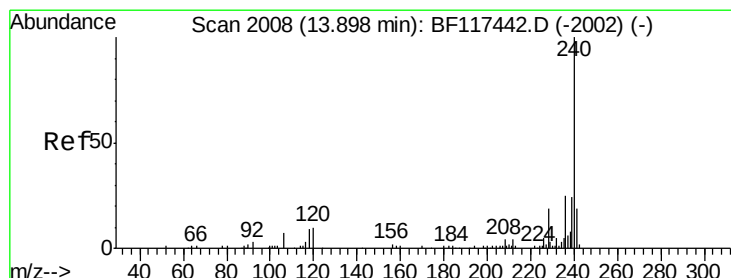
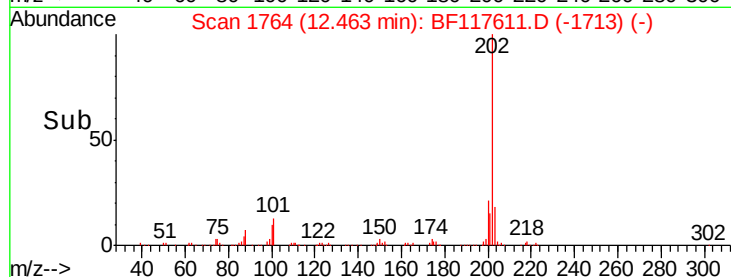
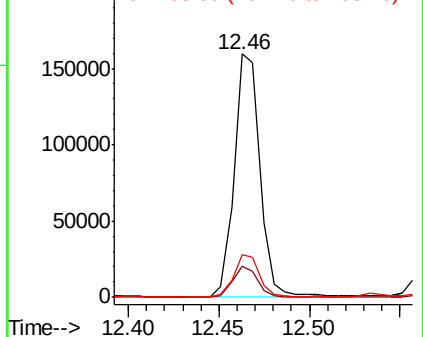
202 100

101 12.9 0.0 32.7

203 17.6 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: BF117611.D

Acq: 30 Oct 2019 1:13

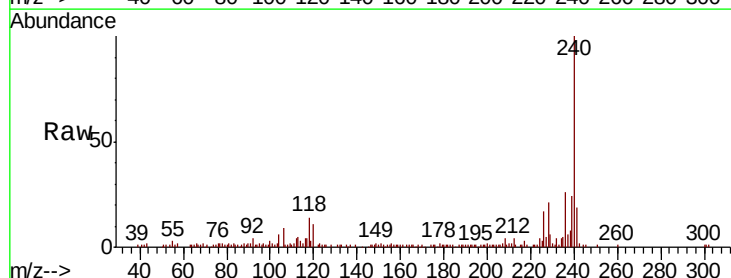
Tgt Ion:240 Resp: 66406

Ion Ratio Lower Upper

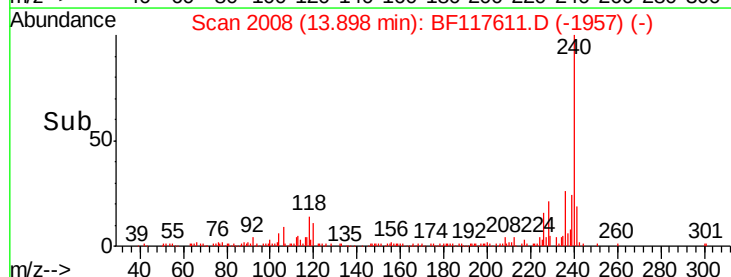
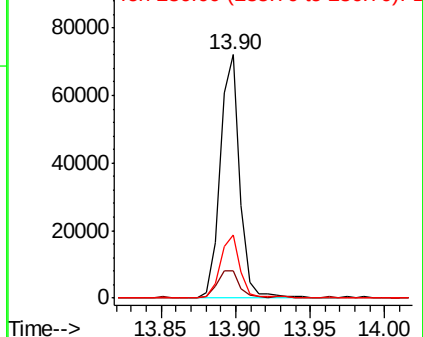
240 100

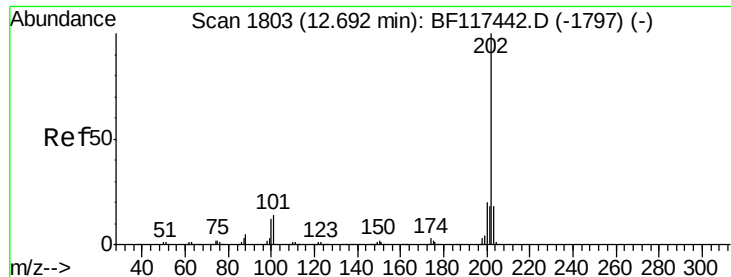
120 11.4 8.4 12.6

236 25.9 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: 25.193 ng

RT: 12.69 min Scan# 1803

Delta R.T. 0.00 min

Lab File: BF117611.D

Acq: 30 Oct 2019 1:13

Instrument :

BNA_F

ClientSampleId :

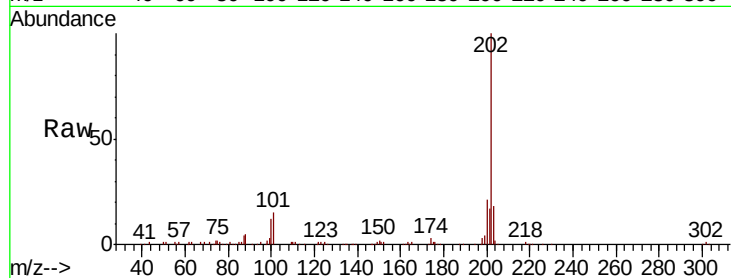
Tot Ion:202 Resp: 143698

Ion Ratio Lower Upper

202 100

200 21.1 16.2 24.2

203 17.7 14.0 21.0

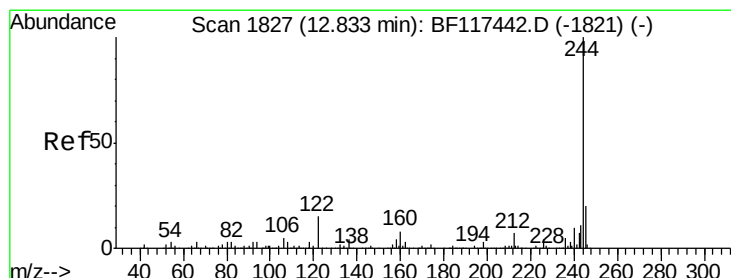
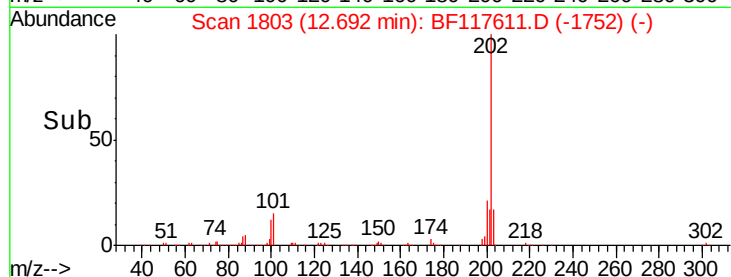
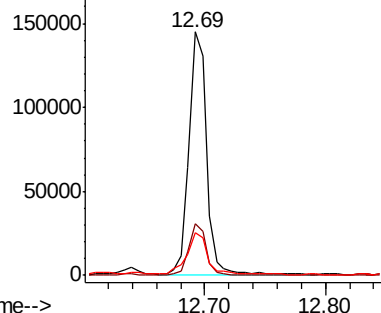


Abundance

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: 12.165 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF117611.D

Acq: 30 Oct 2019 1:13

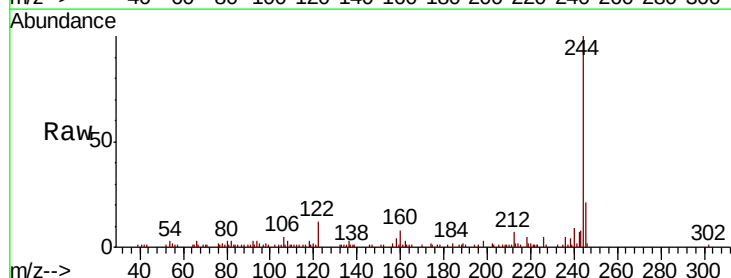
Tgt Ion:244 Resp: 49526

Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.6

122 12.2 11.8 17.8

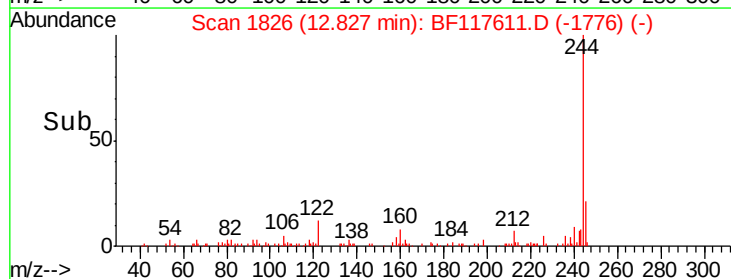
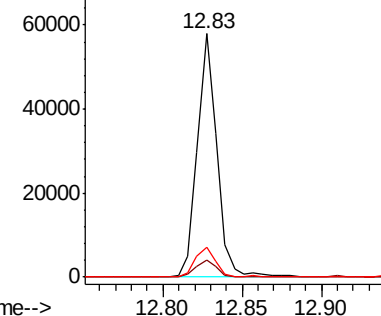


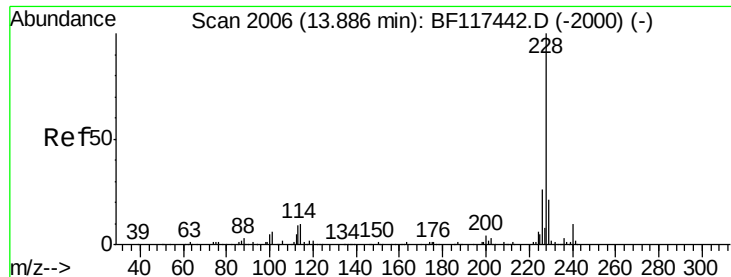
Abundance

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

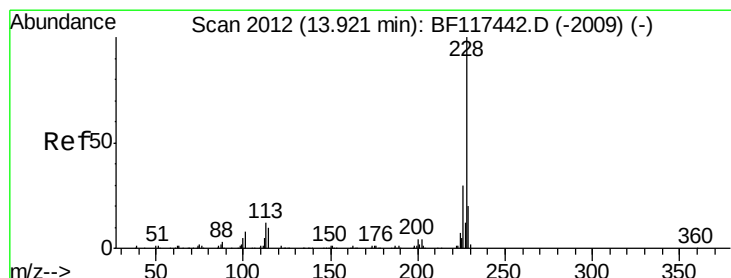
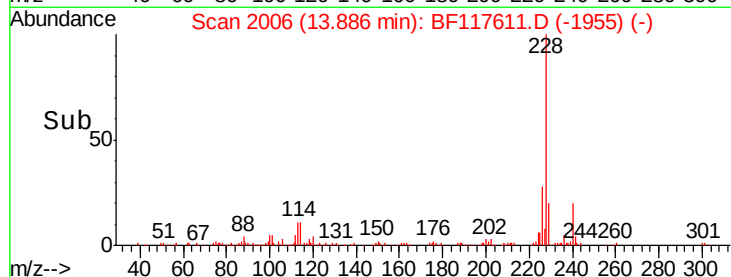
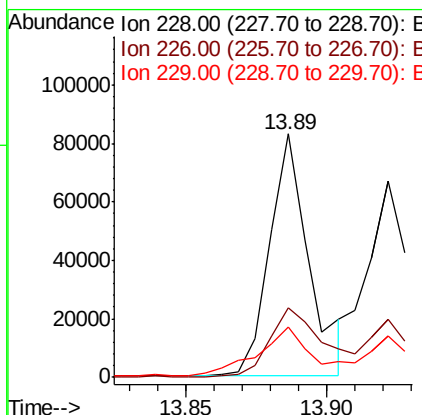
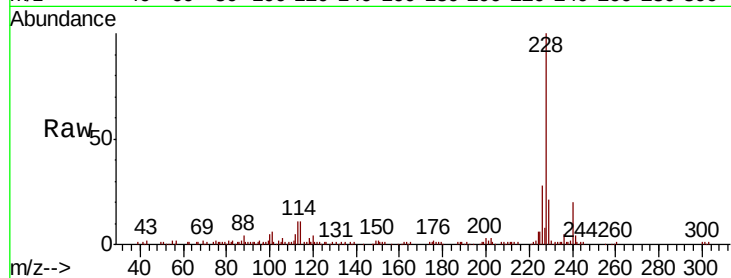




#81
Benzo(a)anthracene
Concen: 18.044 ng
RT: 13.89 min Scan# 2006
Delta R.T. 0.00 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

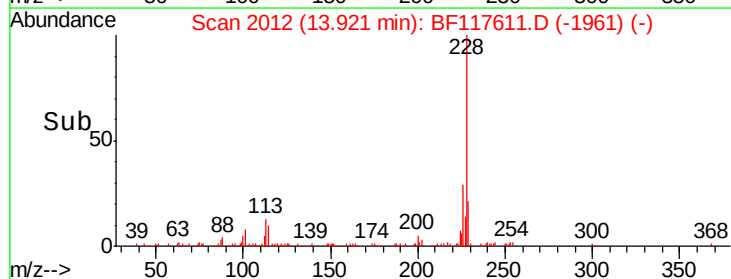
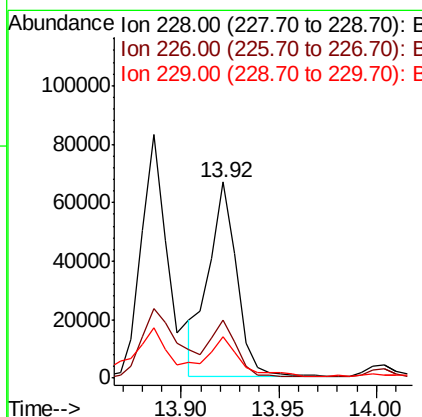
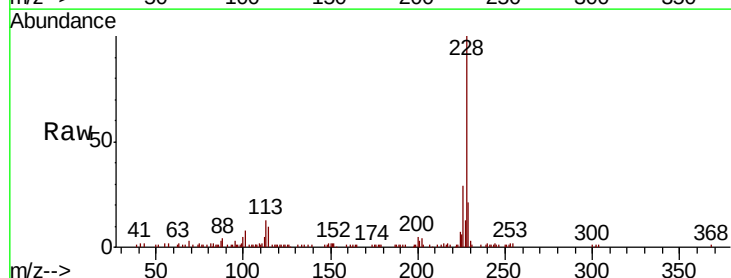
Instrument :
BNA_F
ClientSampleId :

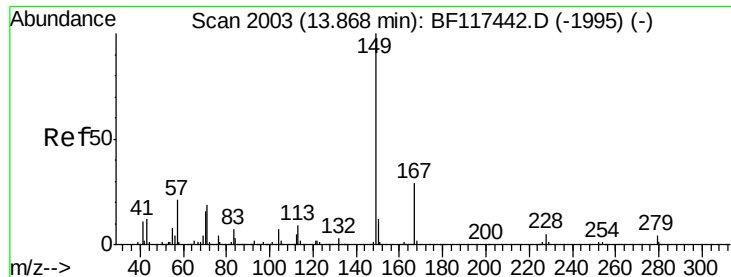
Tot Ion:228 Resp: 80825
Ion Ratio Lower Upper
228 100
226 28.5 21.0 31.4
229 20.8 16.4 24.6



#83
Chrysene
Concen: 15.265 ng
RT: 13.92 min Scan# 2012
Delta R.T. 0.00 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Tgt Ion:228 Resp: 67014
Ion Ratio Lower Upper
228 100
226 29.3 23.9 35.9
229 21.2 15.8 23.6





#84

Bis(2-ethylhexyl)phthalate

Concen: 4.039 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BF117611.D

Acq: 30 Oct 2019 1:13

Instrument :

BNA_F

ClientSampleId :

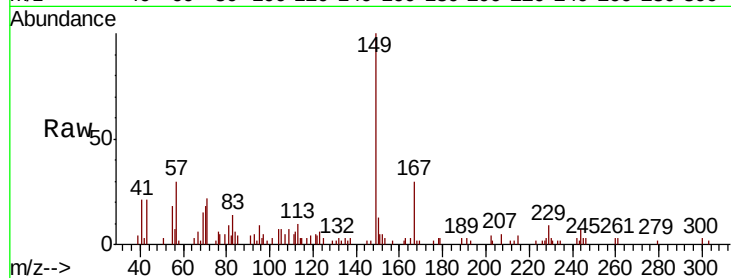
Tot Ion:149 Resp: 16060

Ion Ratio Lower Upper

149 100

167 29.8 23.3 34.9

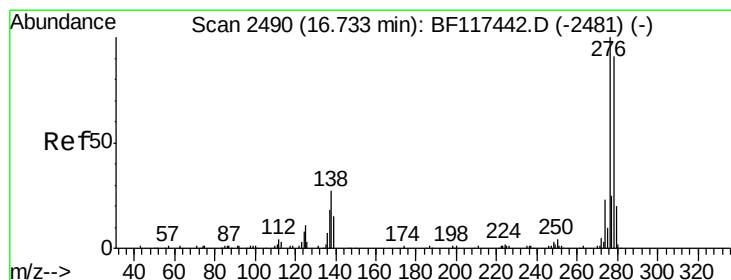
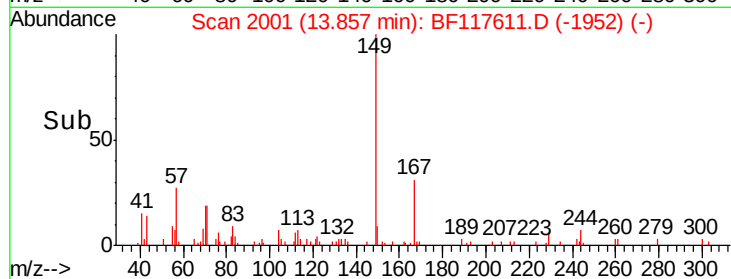
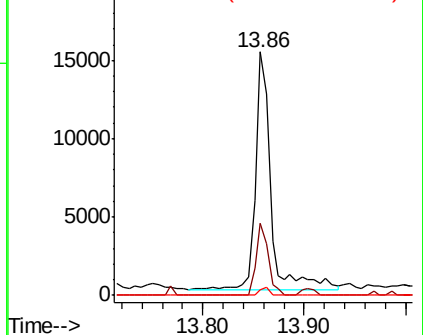
279 2.5 3.2 4.8#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 10.089 ng

RT: 16.75 min Scan# 2493

Delta R.T. 0.02 min

Lab File: BF117611.D

Acq: 30 Oct 2019 1:13

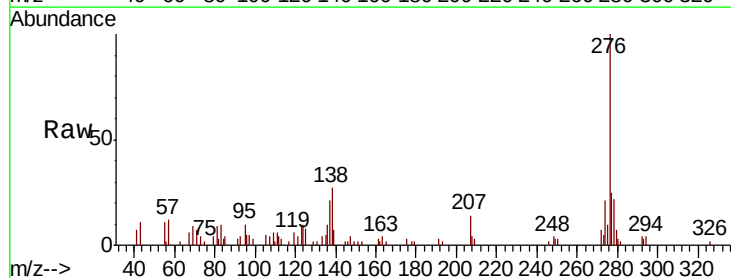
Tgt Ion:276 Resp: 33069

Ion Ratio Lower Upper

276 100

138 26.6 21.8 32.8

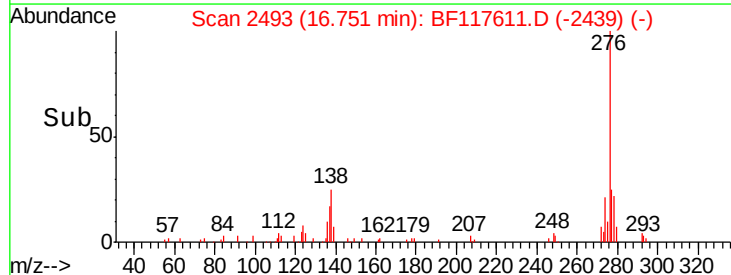
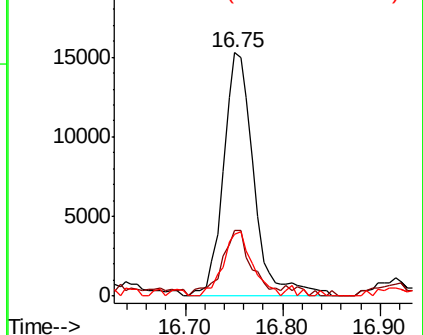
277 25.1 20.0 30.0

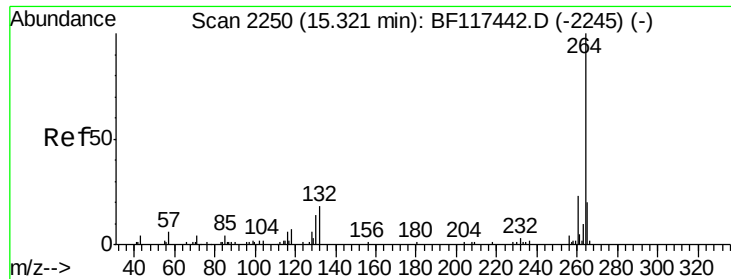


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.33 min Scan# 2252

Delta R.T. 0.01 min

Lab File: BF117611.D

Acq: 30 Oct 2019 1:13

Instrument :

BNA_F

ClientSampleId :

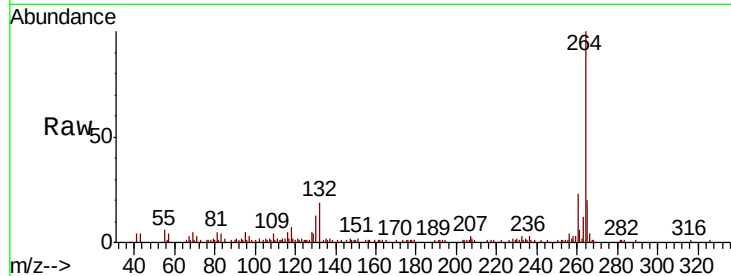
Tot Ion:264 Resp: 54481

Ion Ratio Lower Upper

264 100

260 23.3 18.4 27.6

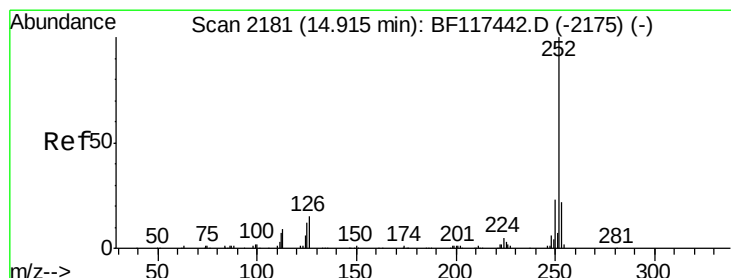
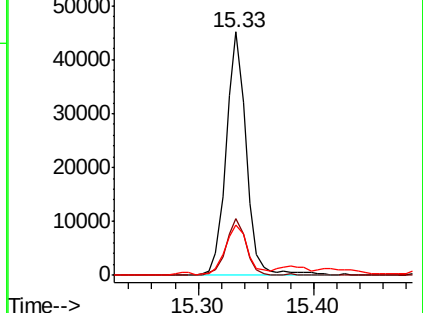
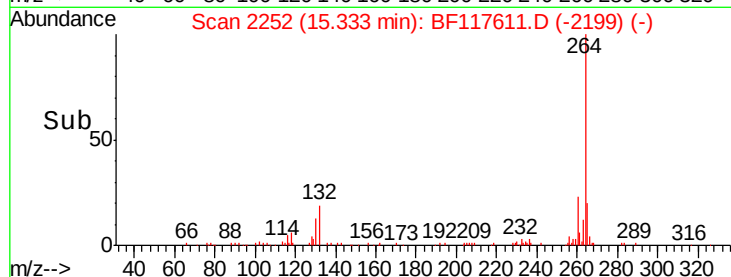
265 20.5 16.1 24.1



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: 35.537 ng

RT: 14.92 min Scan# 2182

Delta R.T. 0.01 min

Lab File: BF117611.D

Acq: 30 Oct 2019 1:13

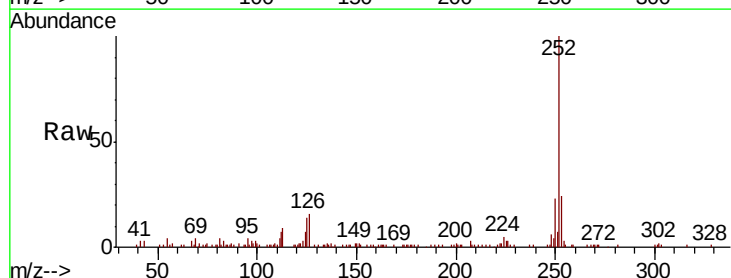
Tgt Ion:252 Resp: 114330

Ion Ratio Lower Upper

252 100

253 23.6 17.8 26.6

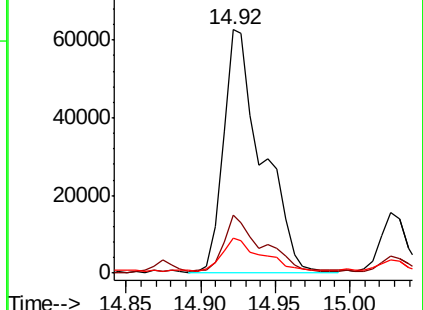
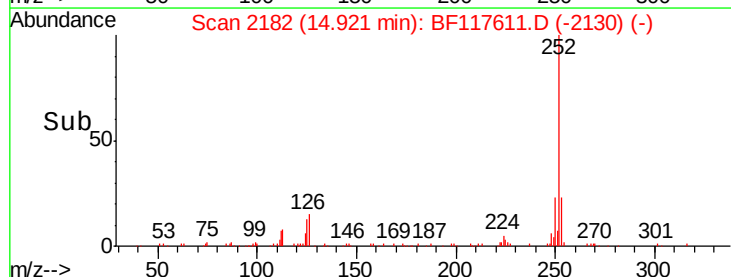
125 14.4 9.9 14.9

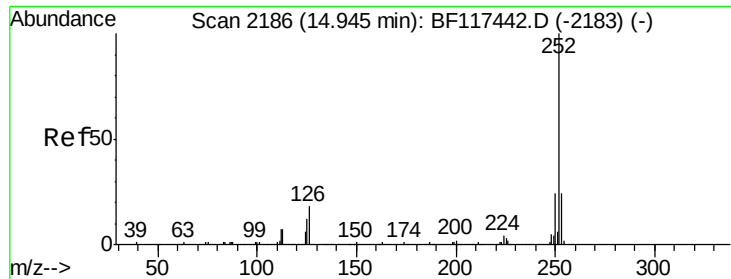


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

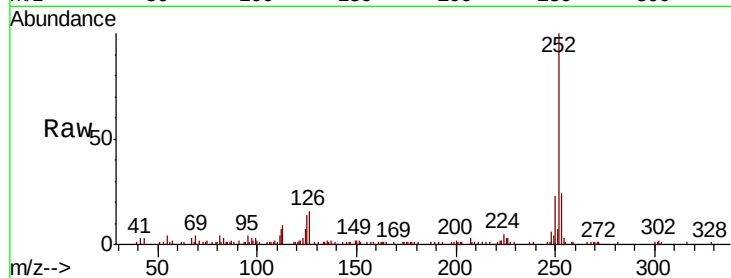




#89
Benzo(k)fluoranthene
Concen: 34.673 ng
RT: 14.92 min Scan# 2182
Delta R.T. -0.02 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	14.4	8.9	13.3

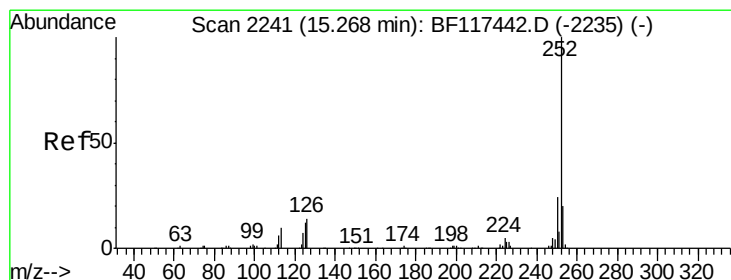
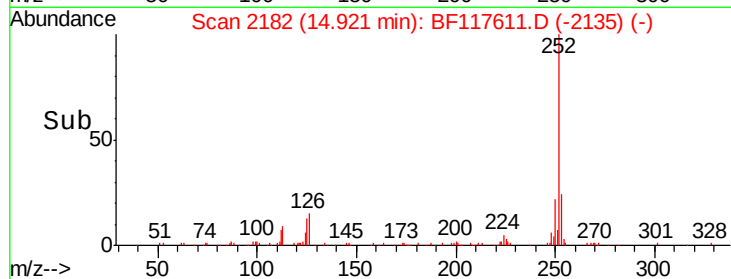
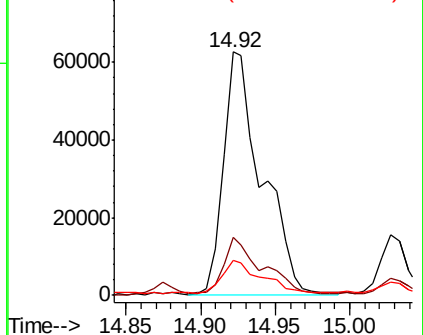


Abundance

Ion 252.00 (251.70 to 252.70): E

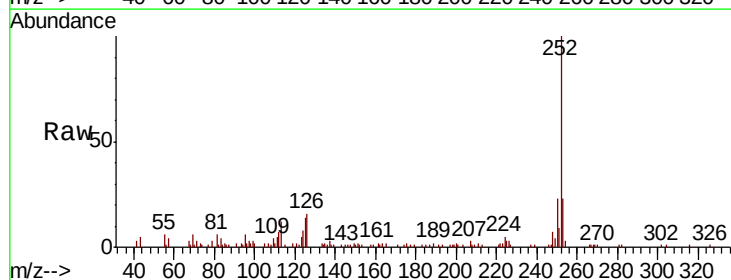
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Benzo(a)pyrene
Concen: 16.125 ng
RT: 15.27 min Scan# 2242
Delta R.T. 0.01 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	16.3	24.5
125	13.8	9.2	13.8

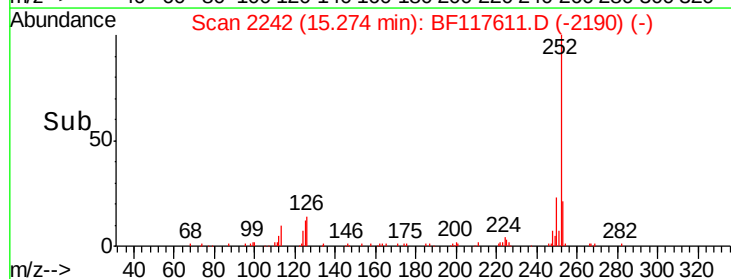
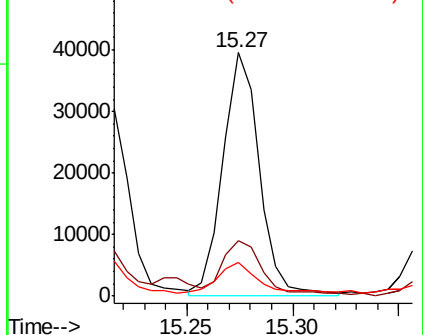


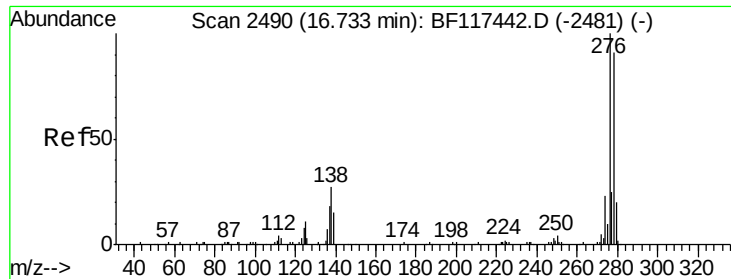
Abundance

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

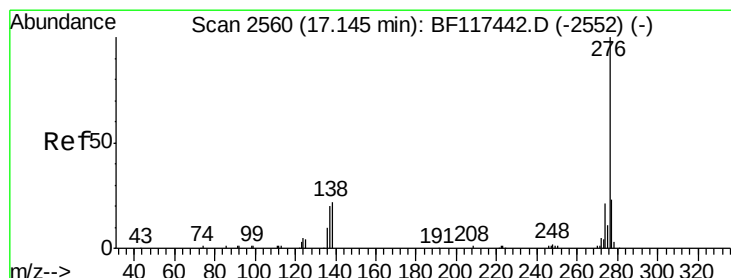
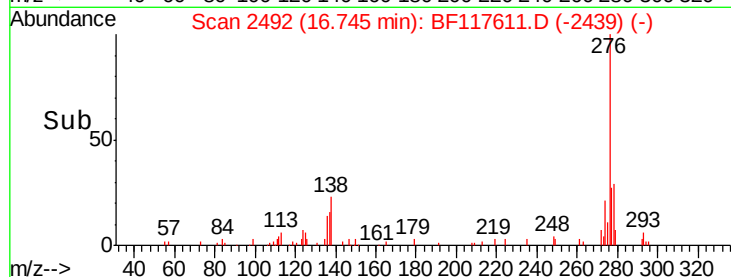
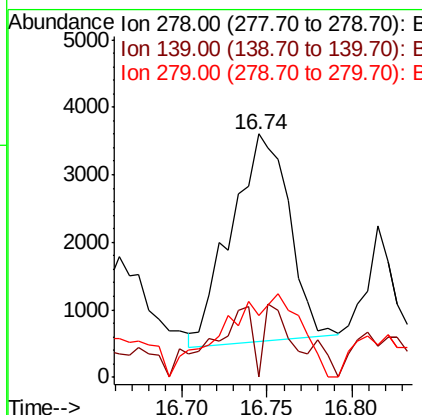
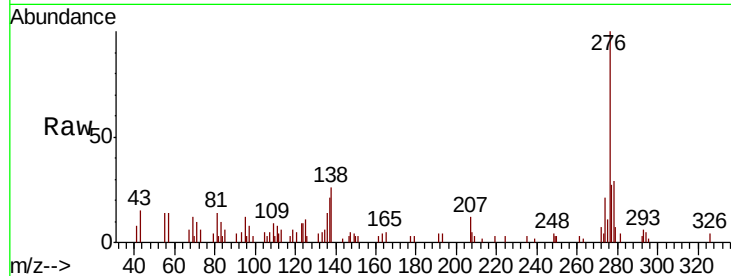




#91
Dibenzo(a,h)anthracene
Concen: 2.899 ng
RT: 16.74 min Scan# 2492
Delta R.T. 0.01 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Instrument :
BNA_F
ClientSampled :

Tot Ion:278 Resp: 7332
Ion Ratio Lower Upper
278 100
139 0.0 13.4 20.0#
279 25.4 17.8 26.6



#92
Benzo(g,h,i)perylene
Concen: 11.745 ng
RT: 17.18 min Scan# 2566
Delta R.T. 0.04 min
Lab File: BF117611.D
Acq: 30 Oct 2019 1:13

Tgt Ion:276 Resp: 28106
Ion Ratio Lower Upper
276 100
277 22.8 18.4 27.6
138 24.6 17.8 26.6

