

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
 Data File : BF117609.D
 Acq On : 30 Oct 2019 00:20
 Operator : JU
 Sample : K5576-15 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 30 04:23:09 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	35089	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	131106	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	57015	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	86238	20.00	ng	0.00
76) Chrysene-d12	13.90	240	65235	20.00	ng	0.00
87) Perylene-d12	15.33	264	50115	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.37	112	41211	17.47	ng	0.02
7) Phenol-d6	6.40	99	58990	18.62	ng	0.02
23) Nitrobenzene-d5	7.30	82	31243	11.76	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	7988	16.19	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	57076	14.10	ng	-0.01
79) Terphenyl-d14	12.83	244	56646	14.16	ng	0.00

Target Compounds

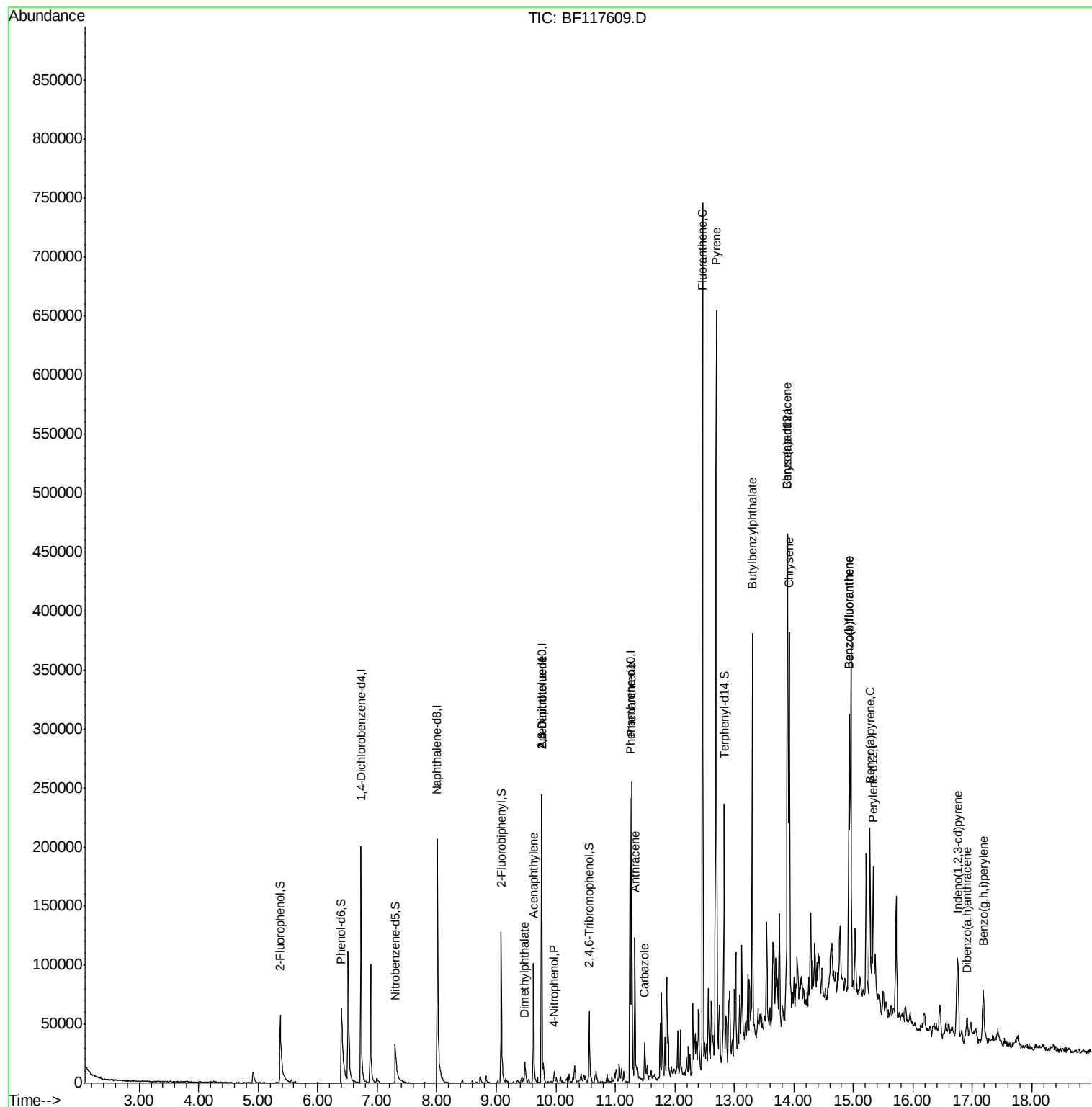
						Qvalue
9) Benzaldehyde	6.51	77	931	Below Cal		91
49) Acenaphthylene	9.62	152	56773	10.861	ng	98
50) Dimethylphthalate	9.48	163	8528	2.098	ng	# 96
51) 2,6-Dinitrotoluene	9.76	165	7140	8.418	ng	# 22
56) 4-Nitrophenol	9.97	139	1777	7.688	ng	# 6
57) 2,4-Dinitrotoluene	9.76	165	7140	6.332	ng	# 12
71) Phenanthrene	11.27	178	94827	18.937	ng	98
72) Anthracene	11.33	178	57226	11.138	ng	100
73) Carbazole	11.49	167	13575	2.891	ng	98
75) Fluoranthene	12.47	202	276490	55.155	ng	99
77) Benzydine	12.83	184	796	Below Cal	#	61
78) Pyrene	12.70	202	241265	43.057	ng	99
80) Butylbenzylphthalate	13.30	149	77708	27.869	ng	92
81) Benzo(a)anthracene	13.89	228	128363	29.171	ng	97
83) Chrysene	13.92	228	110838	25.701	ng	97
86) Indeno(1,2,3-cd)pyrene	16.76	276	43101	13.386	ng	93
88) Benzo(b)fluoranthene	14.93	252	154314	52.145	ng	98
89) Benzo(k)fluoranthene	14.93	252	154314	50.876	ng	# 98
90) Benzo(a)pyrene	15.27	252	65619	24.388	ng	# 94
91) Dibenzo(a,h)anthracene	16.91	278	9269	3.984	ng	95
92) Benzo(g,h,i)perylene	17.18	276	36537	16.598	ng	94

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

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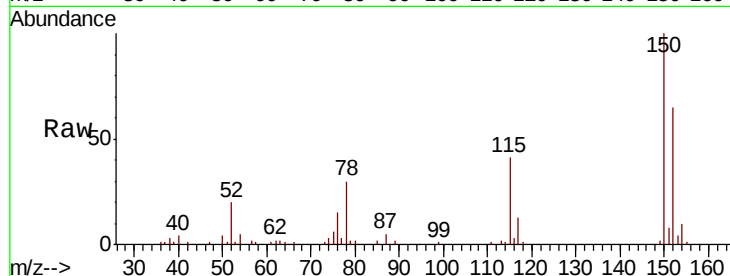


#1

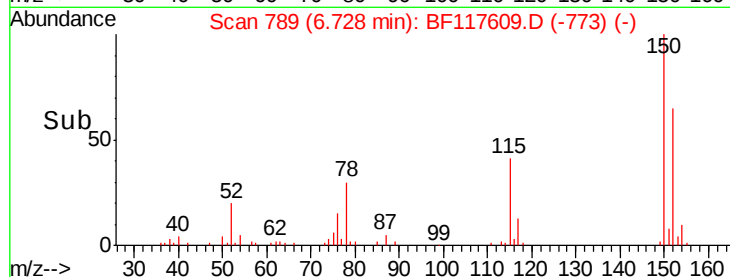
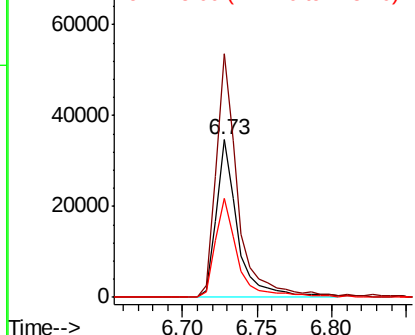
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 35089
Ion Ratio Lower Upper
152 100
150 154.5 126.8 190.2
115 63.2 51.6 77.4



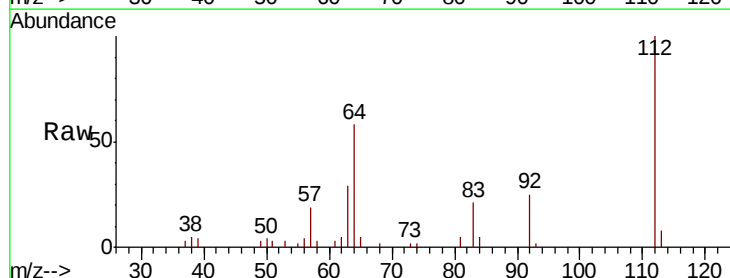
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



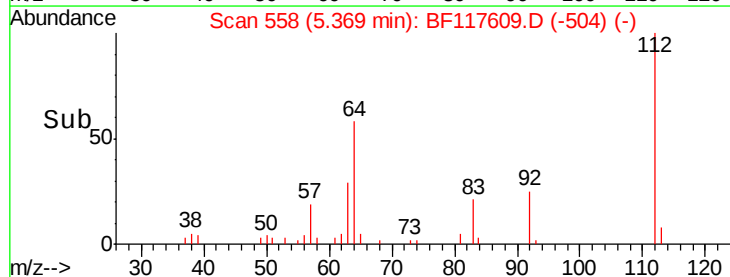
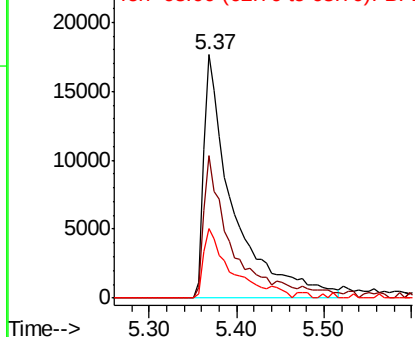
#5

2-Fluorophenol
Concen: 17.473 ng
RT: 5.37 min Scan# 558
Delta R.T. 0.02 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion:112 Resp: 41211
Ion Ratio Lower Upper
112 100
64 58.5 44.1 66.1
63 28.8 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: 18.621 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.02 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

ClientSampleId :

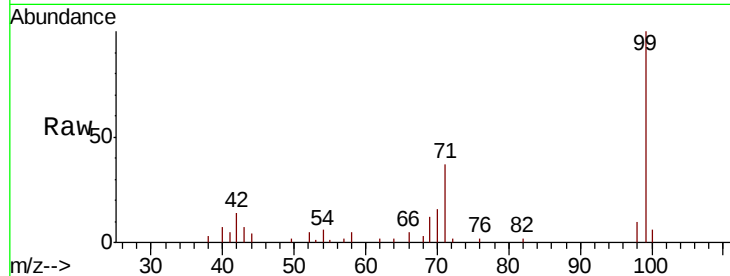
Tot Ion: 99 Resp: 58990

Ion Ratio Lower Upper

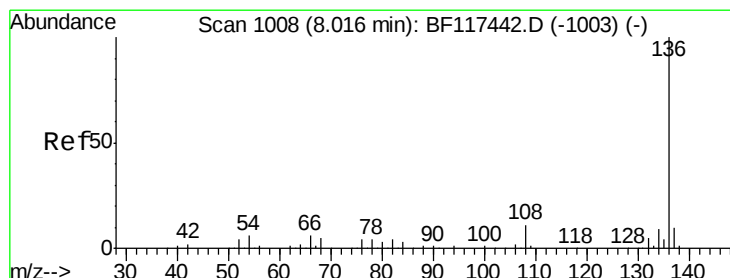
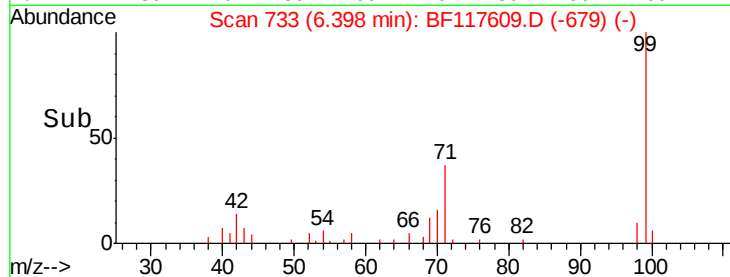
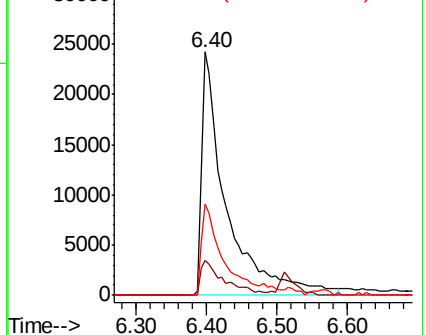
99 100

42 14.2 12.8 19.2

71 37.3 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: BF117609.D

Acq: 30 Oct 2019 00:20

Tgt Ion: 136 Resp: 131106

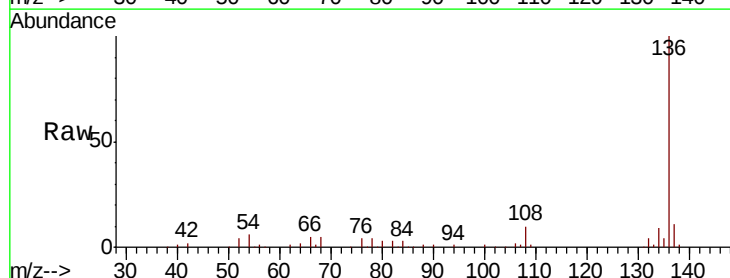
Ion Ratio Lower Upper

136 100

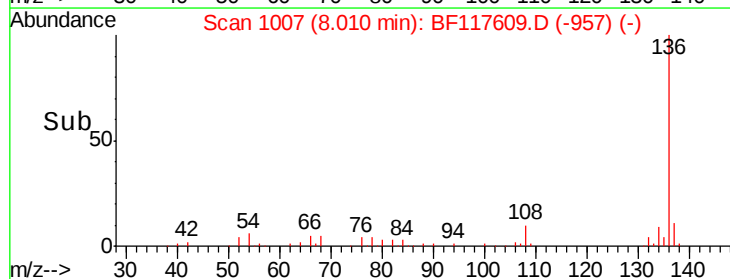
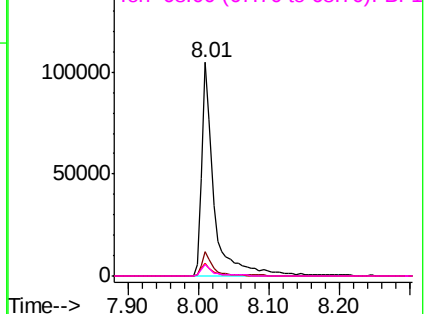
137 11.5 8.2 12.4

54 5.9 4.5 6.7

68 5.4 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

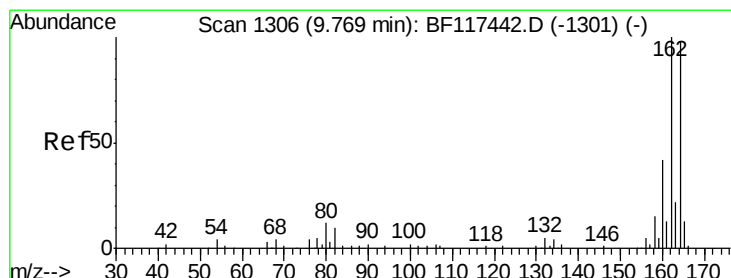
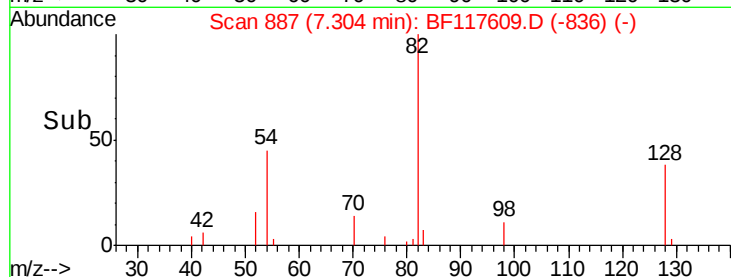
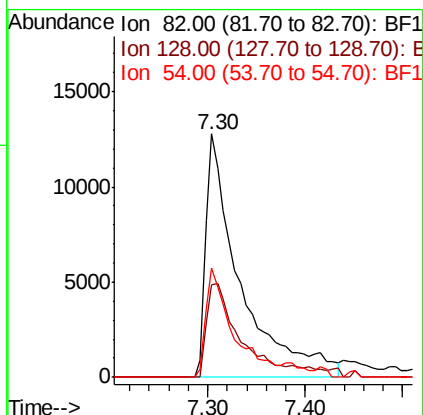
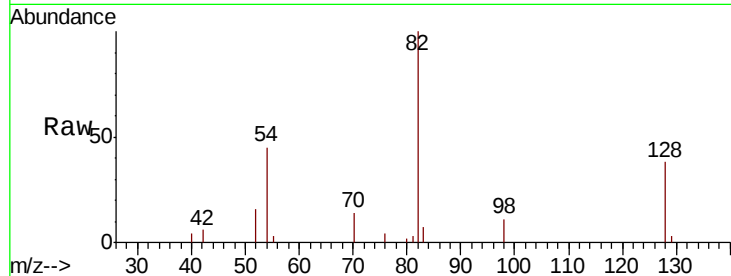




#23
 Nitrobenzene-d5
 Concen: 11.765 ng
 RT: 7.30 min Scan# 887
 Delta R.T. -0.00 min
 Lab File: BF117609.D
 Acq: 30 Oct 2019 00:20

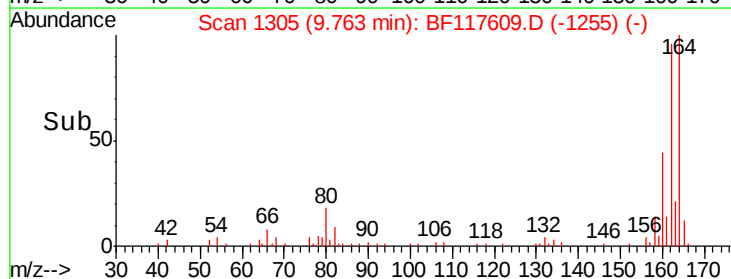
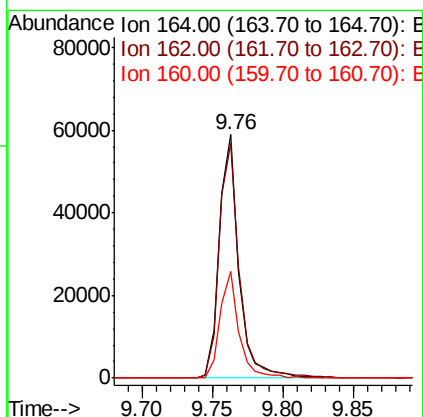
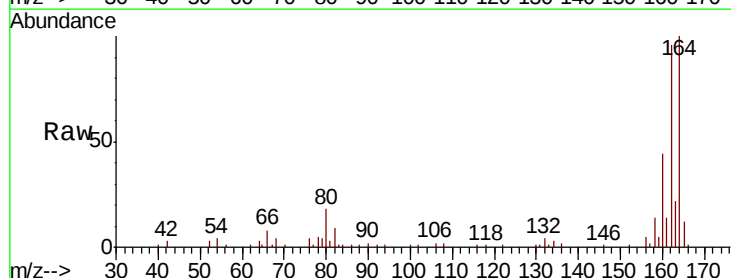
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	82	Resp	31243
Ion Ratio	Lower	Upper	
82	100		
128	37.8	32.2	48.2
54	45.1	34.2	51.2



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BF117609.D
 Acq: 30 Oct 2019 00:20

Tgt Ion	164	Resp	57015
Ion Ratio	Lower	Upper	
164	100		
162	96.5	81.8	122.6
160	43.8	34.4	51.6





#42

2,4,6-Tribromophenol

Concen: 16.192 ng

RT: 10.56 min Scan# 1441

Delta R.T. -0.00 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

ClientSampleId :

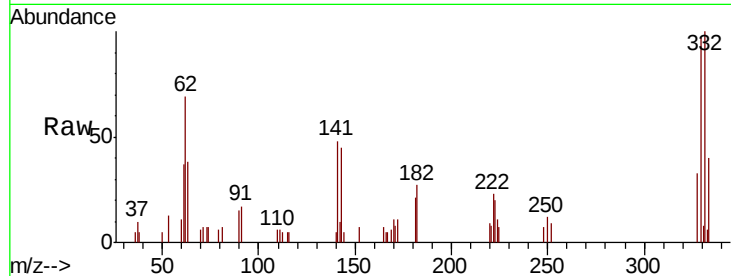
Tot Ion:330 Resp: 7988

Ion Ratio Lower Upper

330 100

332 101.0 78.5 117.7

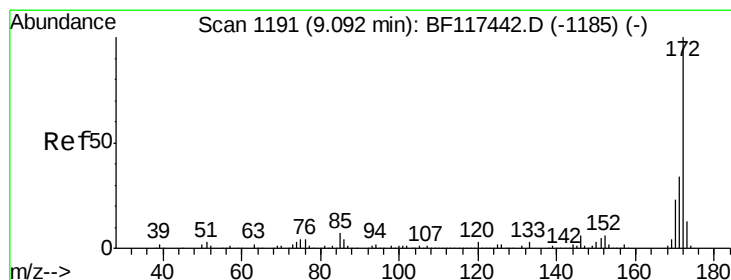
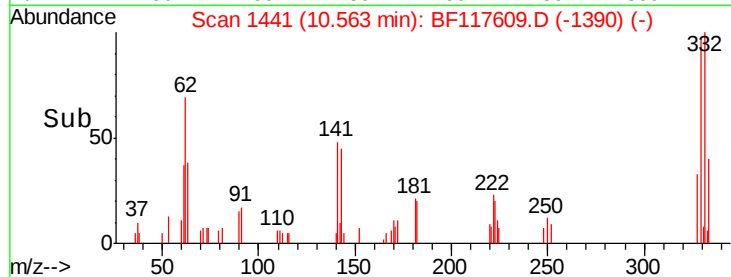
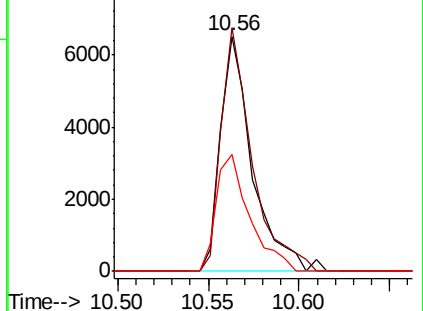
141 52.0 37.0 55.6



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: 14.105 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

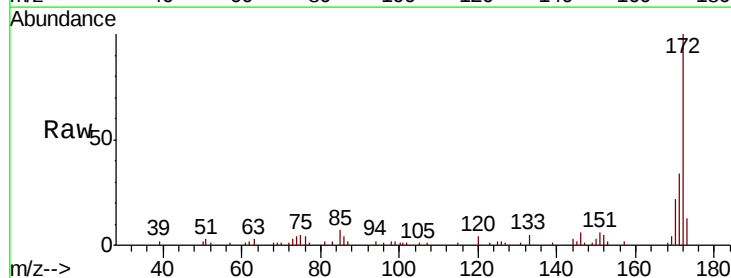
Tgt Ion:172 Resp: 57076

Ion Ratio Lower Upper

172 100

171 33.7 27.5 41.3

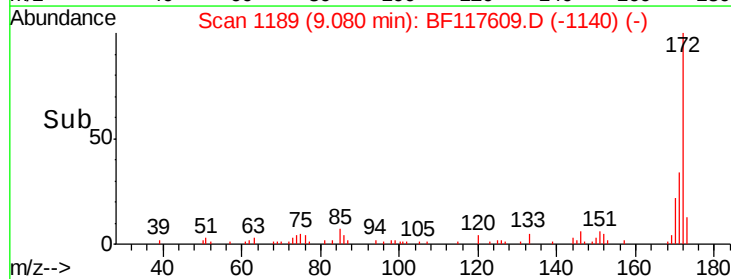
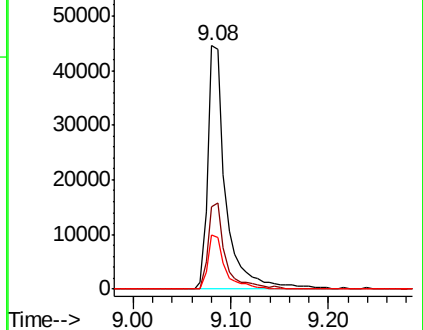
170 22.0 18.6 27.8

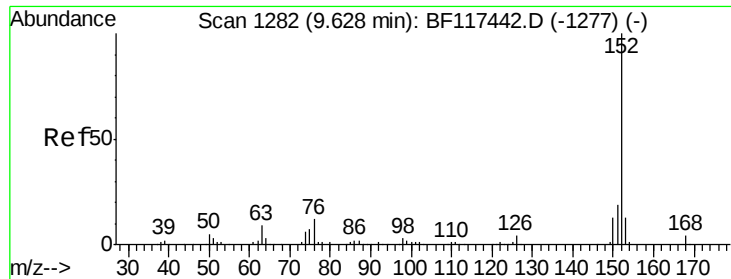


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 10.861 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

ClientSampleId :

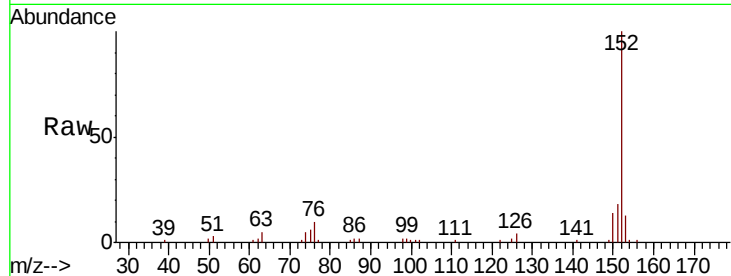
Tot Ion:152 Resp: 56773

Ion Ratio Lower Upper

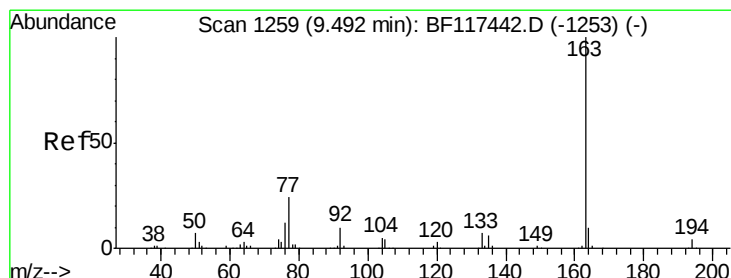
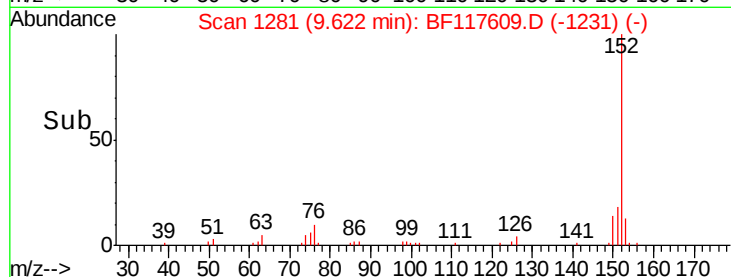
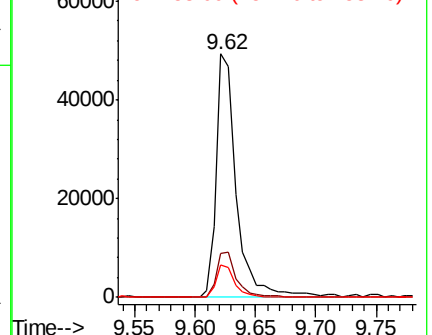
152 100

151 18.0 15.4 23.0

153 13.2 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



#50

Dimethylphthalate

Concen: 2.098 ng

RT: 9.48 min Scan# 1257

Delta R.T. -0.01 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

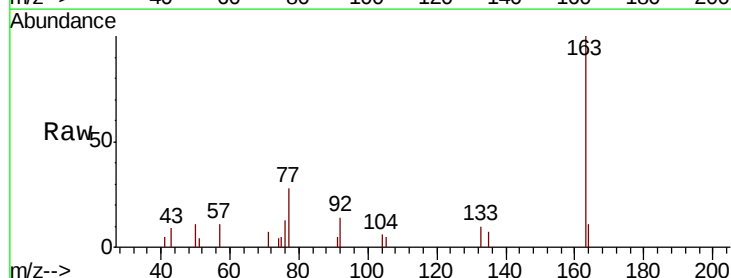
Tgt Ion:163 Resp: 8528

Ion Ratio Lower Upper

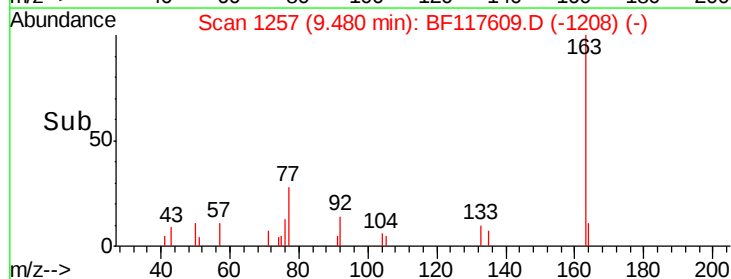
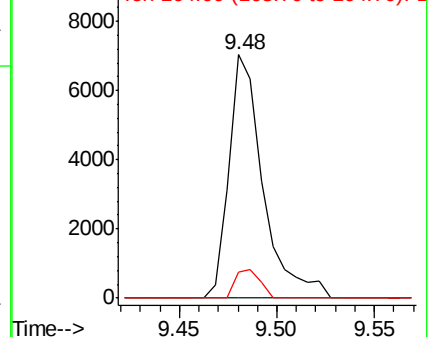
163 100

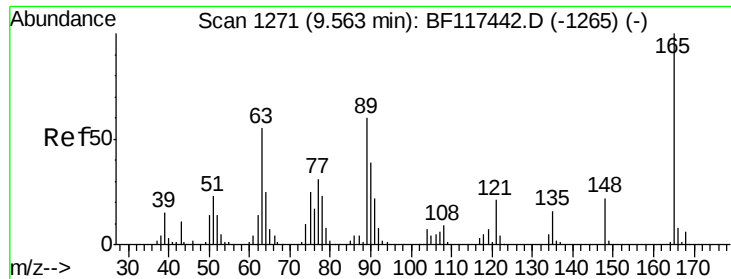
194 0.0 2.9 4.3#

164 10.9 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

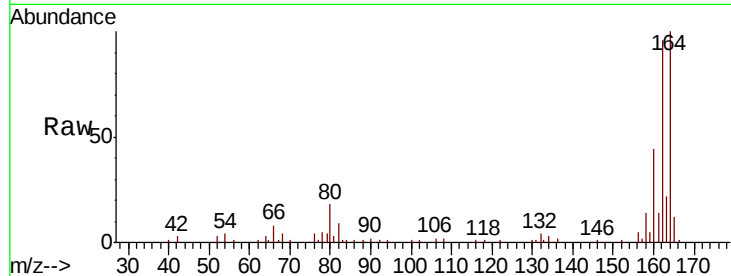




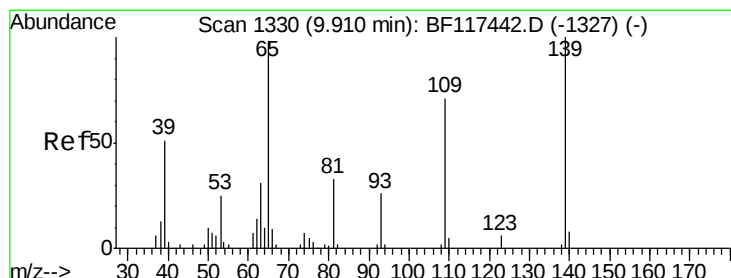
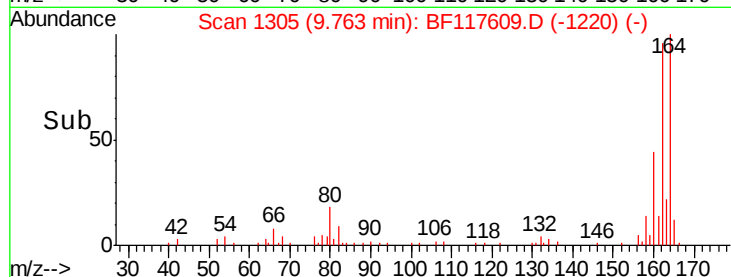
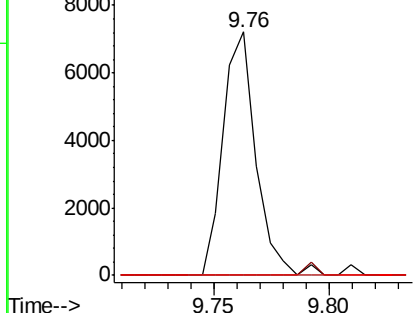
#51
 2,6-Dinitrotoluene
 Concen: 8.418 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. 0.20 min
 Lab File: BF117609.D
 Acq: 30 Oct 2019 00:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165 Resp: 7140
 Ion Ratio Lower Upper
 165 100
 63 0.0 43.8 65.8#
 89 0.0 47.6 71.4#

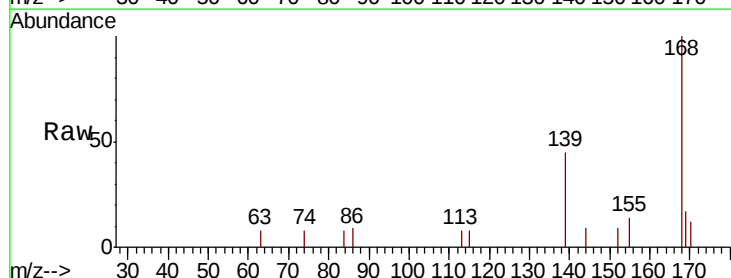


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

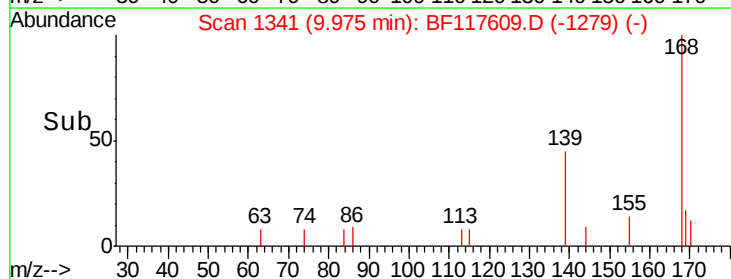
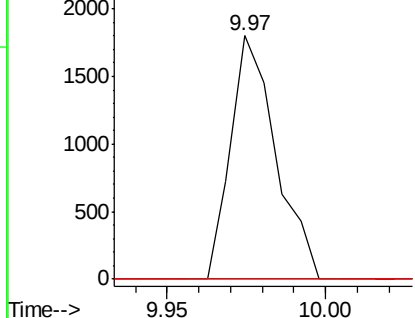


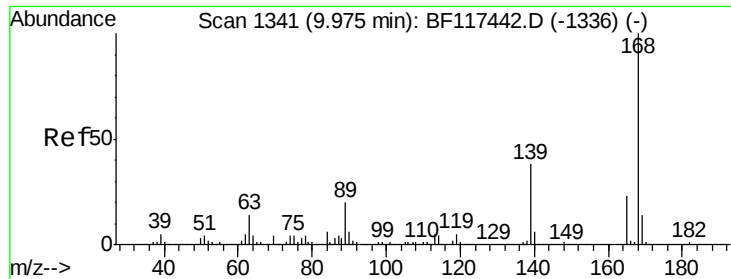
#56
 4-Nitrophenol
 Concen: 7.688 ng
 RT: 9.97 min Scan# 1341
 Delta R.T. 0.07 min
 Lab File: BF117609.D
 Acq: 30 Oct 2019 00:20

Tgt Ion:139 Resp: 1777
 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

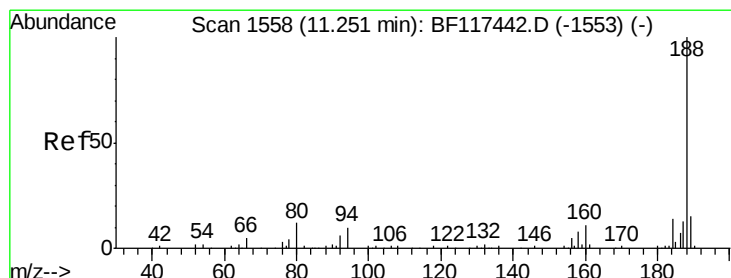
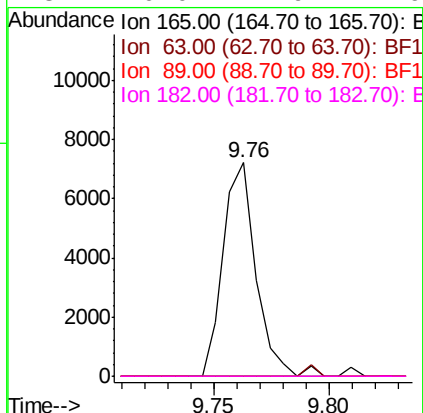
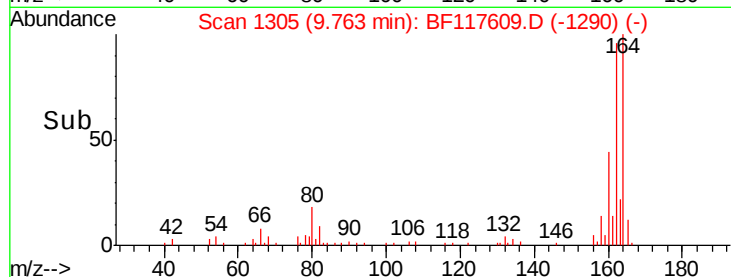
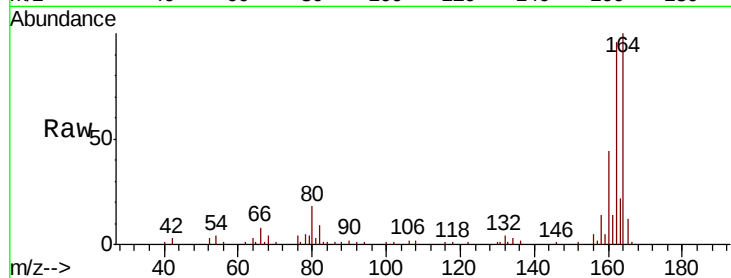




#57
 2,4-Dinitrotoluene
 Concen: 6.332 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.21 min
 Lab File: BF117609.D
 Acq: 30 Oct 2019 00:20

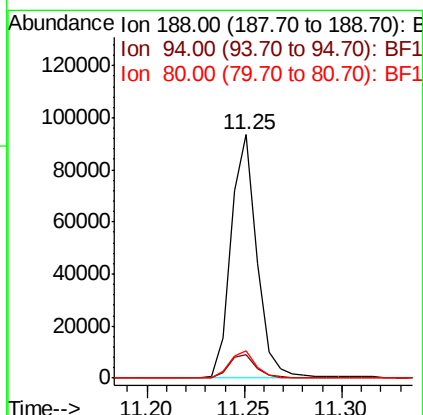
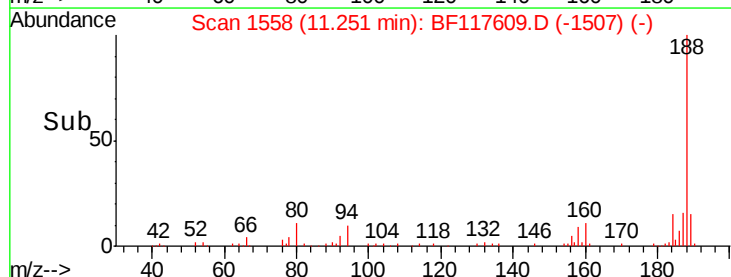
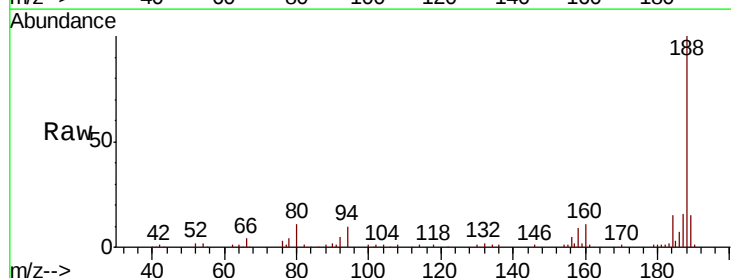
Instrument :
 BNA_F
 ClientSampled :

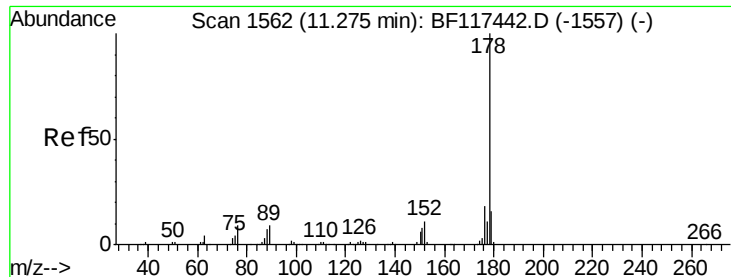
Tot Ion:165 Resp: 7140
 Ion Ratio Lower Upper
 165 100
 63 0.0 51.4 77.0#
 89 0.0 69.9 104.9#
 182 0.0 1.9 2.9#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.00 min
 Lab File: BF117609.D
 Acq: 30 Oct 2019 00:20

Tgt Ion:188 Resp: 86238
 Ion Ratio Lower Upper
 188 100
 94 9.5 8.0 12.0
 80 11.3 9.5 14.3





#71

Phenanthrene

Concen: 18.937 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.00 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

ClientSampleId :

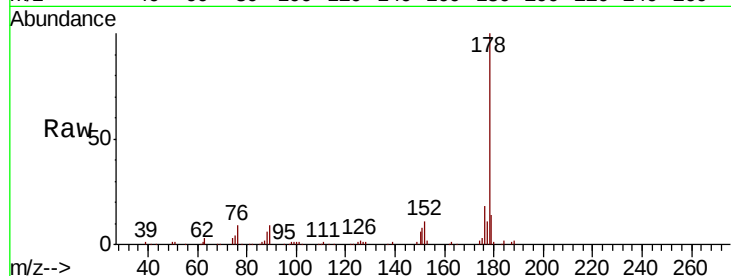
Tot Ion:178 Resp: 94827

Ion Ratio Lower Upper

178 100

176 18.3 14.6 22.0

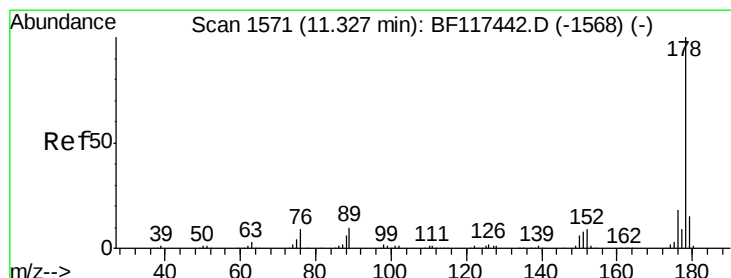
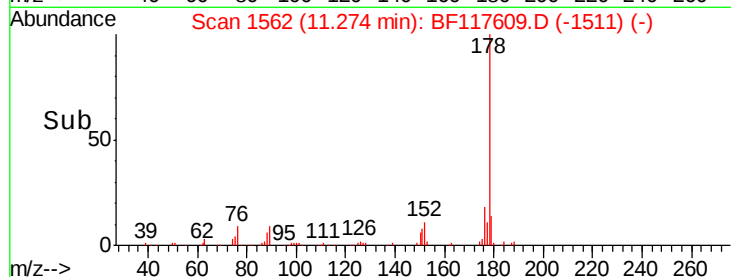
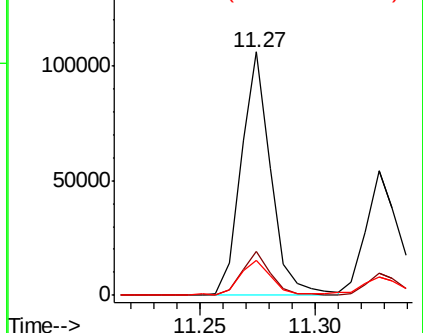
179 14.4 12.6 19.0



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: 11.138 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.00 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

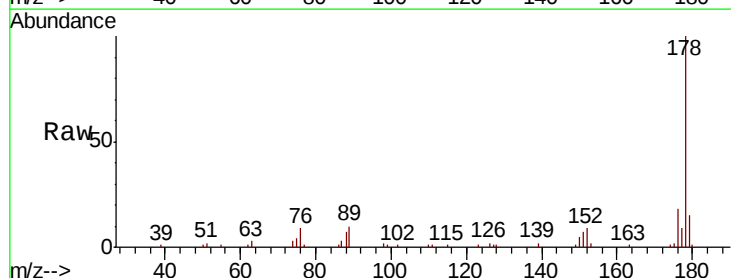
Tgt Ion:178 Resp: 57226

Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

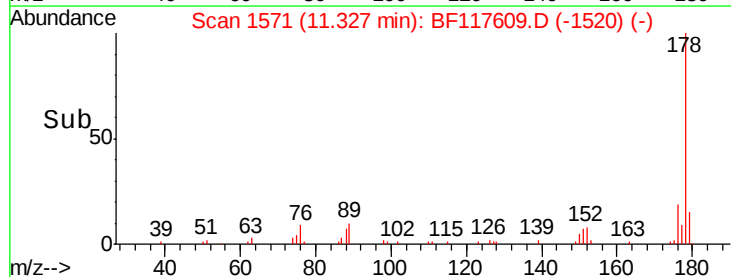
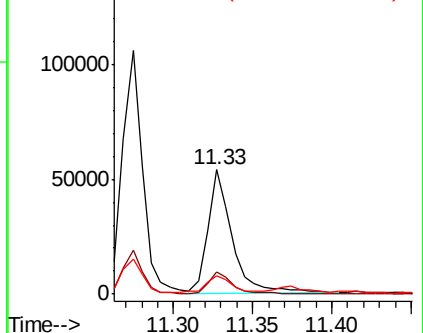
179 15.1 12.2 18.2

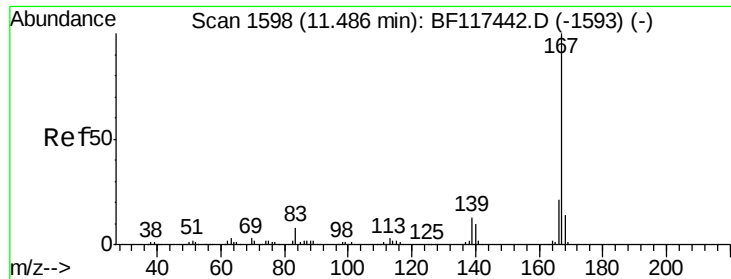


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

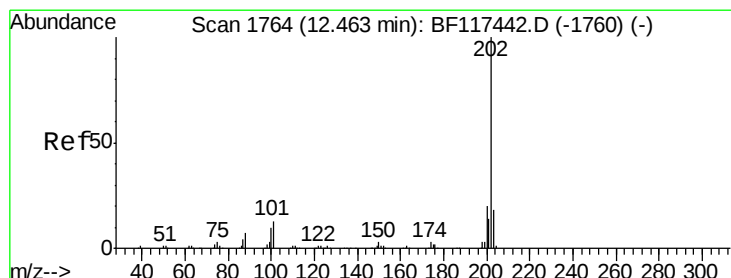
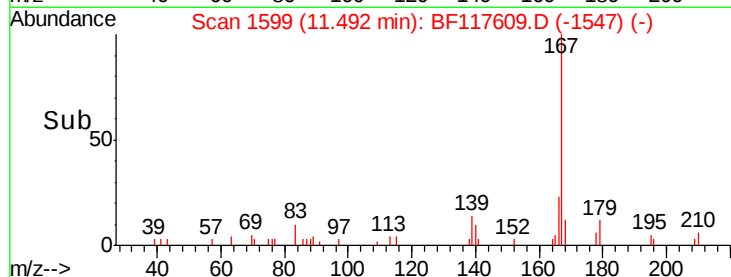
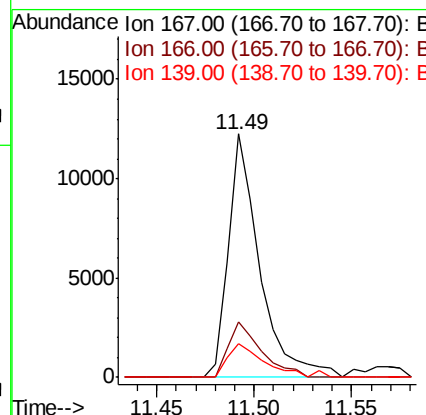
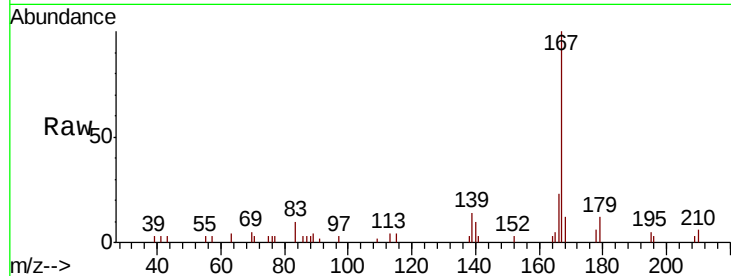




#73
 Carbazole
 Concen: 2.891 ng
 RT: 11.49 min Scan# 1599
 Delta R.T. 0.01 min
 Lab File: BF117609.D
 Acq: 30 Oct 2019 00:20

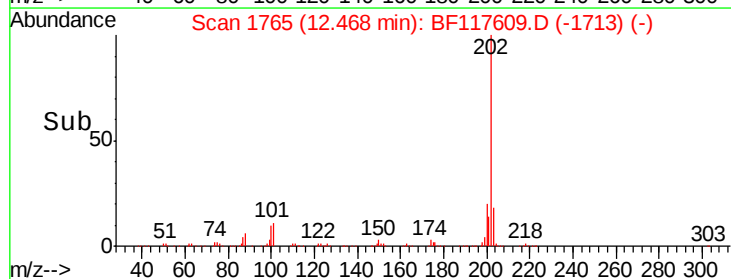
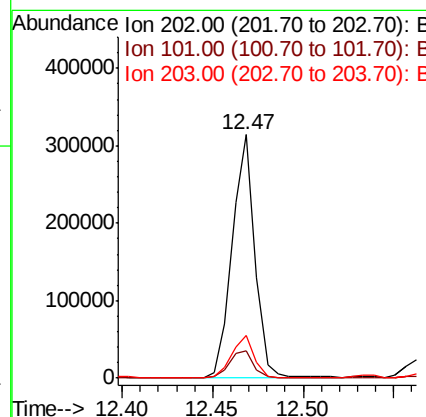
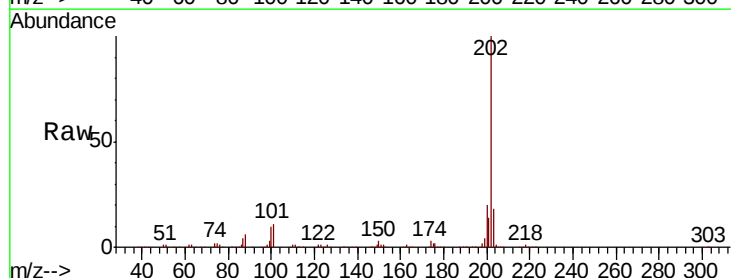
Instrument :
 BNA_F
 ClientSampleId :

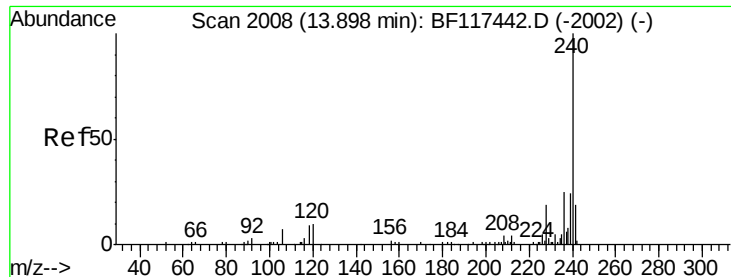
Tot Ion:167 Resp: 13575
 Ion Ratio Lower Upper
 167 100
 166 22.7 17.0 25.6
 139 13.8 10.6 16.0



#75
 Fluoranthene
 Concen: 55.155 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. 0.01 min
 Lab File: BF117609.D
 Acq: 30 Oct 2019 00:20

Tgt Ion:202 Resp: 276490
 Ion Ratio Lower Upper
 202 100
 101 11.4 0.0 32.7
 203 17.7 0.0 37.6

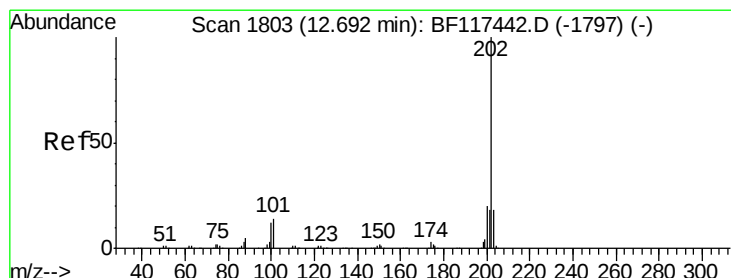
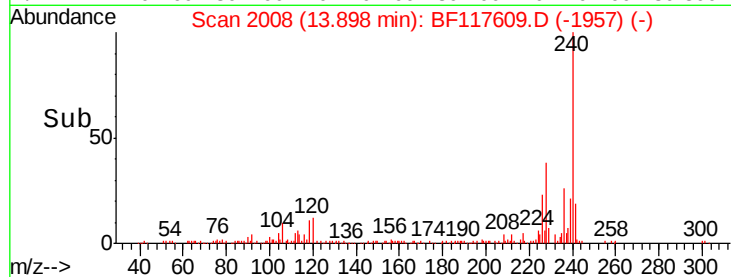
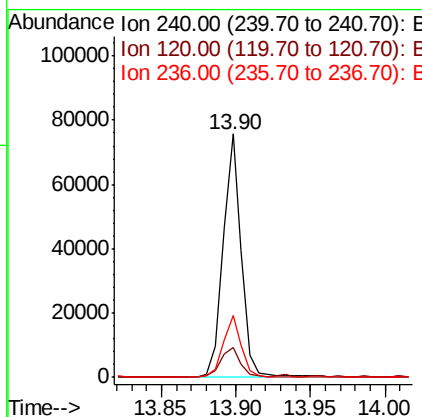
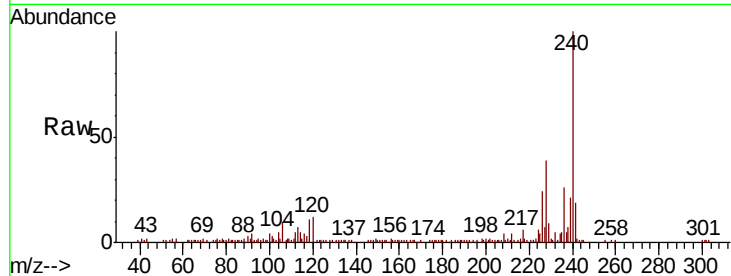




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.00 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

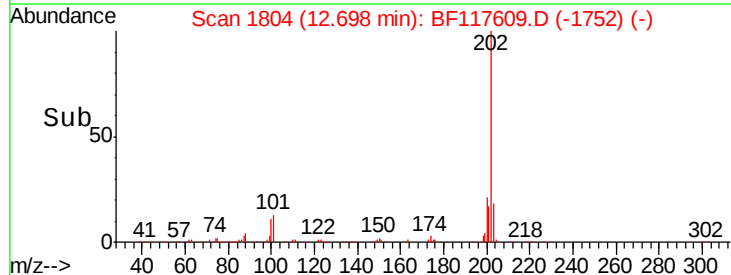
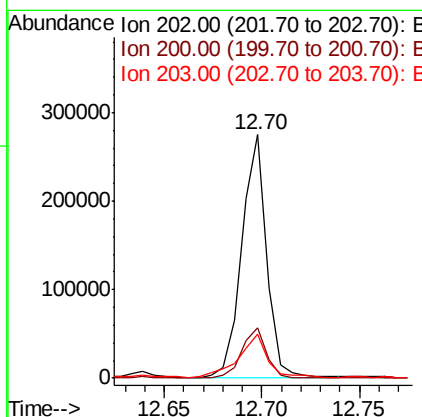
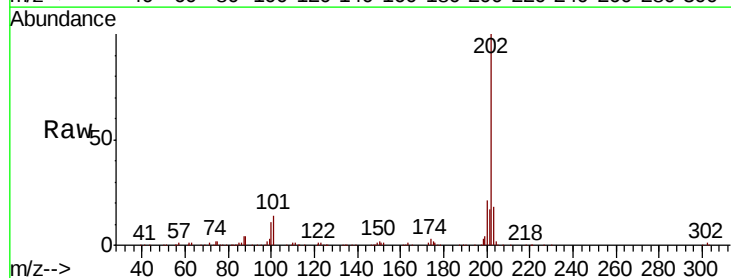
Instrument :
BNA_F
ClientSampleId :

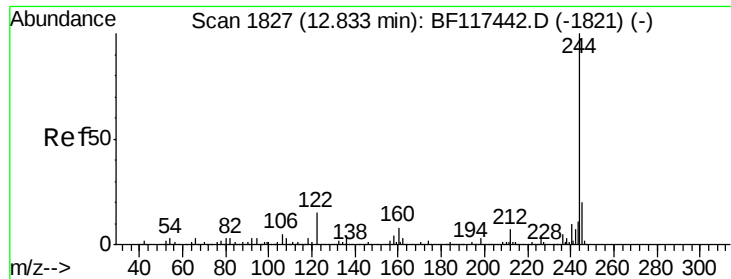
Tot Ion:240 Resp: 65235
Ion Ratio Lower Upper
240 100
120 12.0 8.4 12.6
236 25.5 20.0 30.0



#78
Pyrene
Concen: 43.057 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion:202 Resp: 241265
Ion Ratio Lower Upper
202 100
200 20.6 16.2 24.2
203 17.9 14.0 21.0





#79

Terphenyl-d14

Concen: 14.164 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

ClientSampleId :

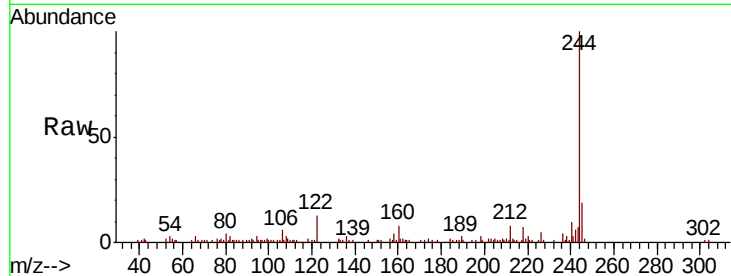
Tot Ion:244 Resp: 56646

Ion Ratio Lower Upper

244 100

212 7.7 5.8 8.6

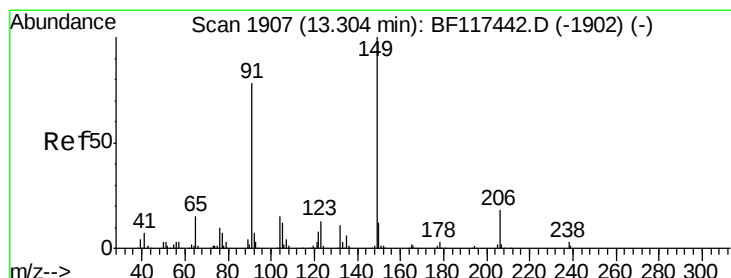
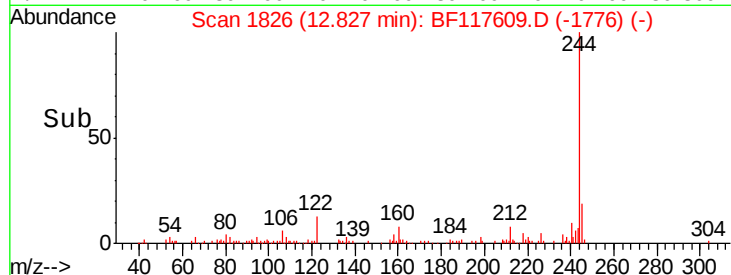
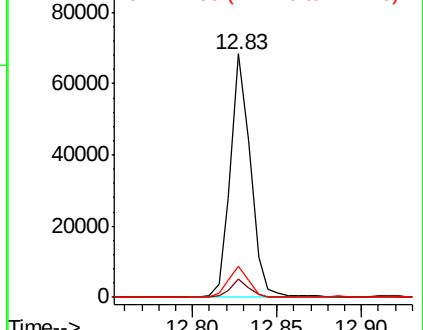
122 13.0 11.8 17.8



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



#80

Butylbenzylphthalate

Concen: 27.869 ng

RT: 13.30 min Scan# 1907

Delta R.T. -0.00 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

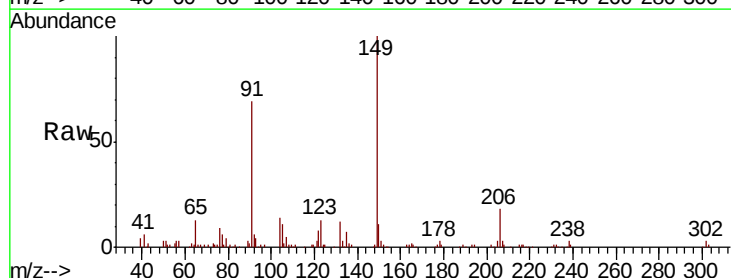
Tgt Ion:149 Resp: 77708

Ion Ratio Lower Upper

149 100

91 69.1 62.1 93.1

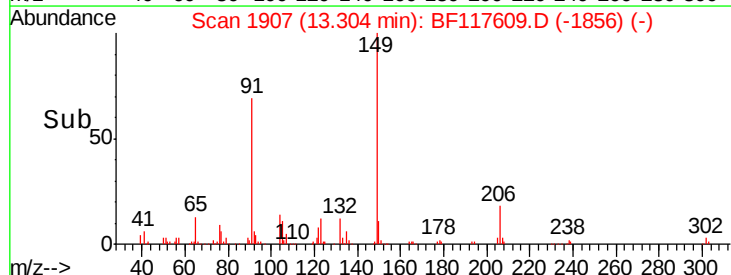
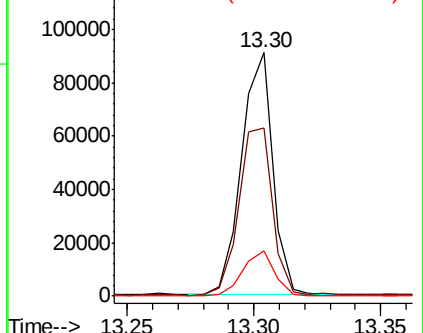
206 18.4 14.3 21.5

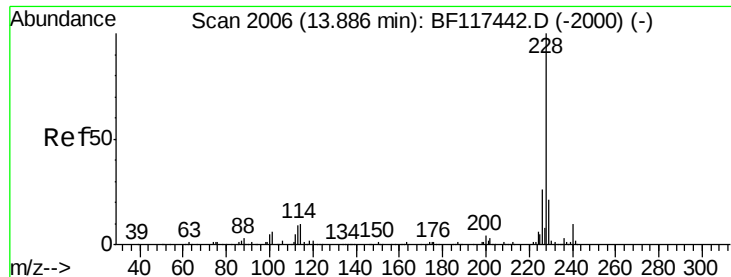


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E

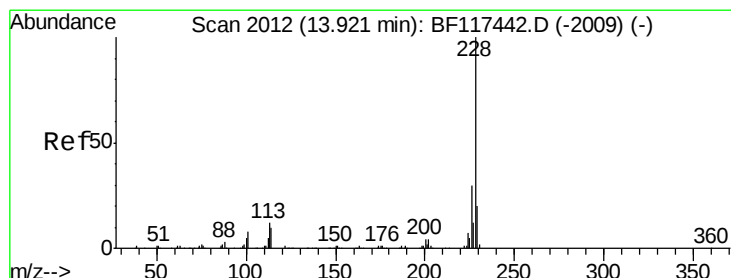
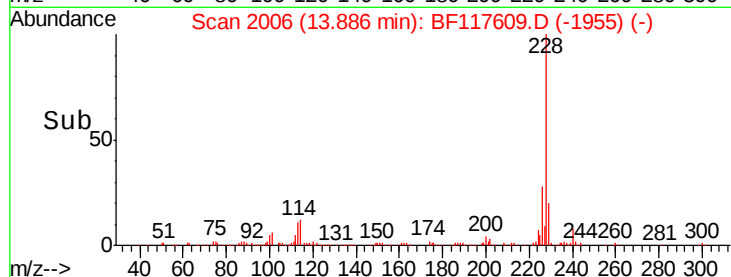
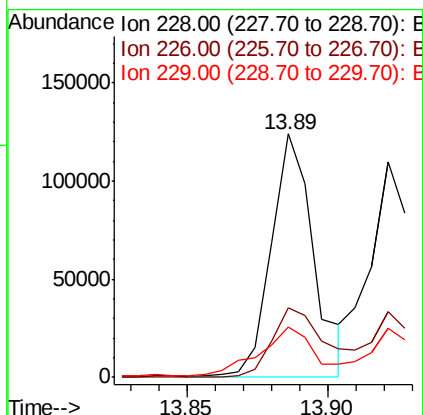
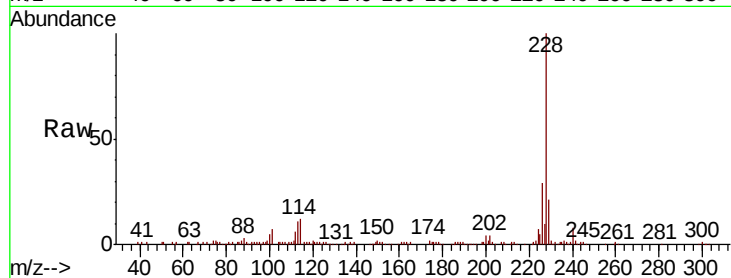




#81
Benzo(a)anthracene
Concen: 29.171 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.00 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

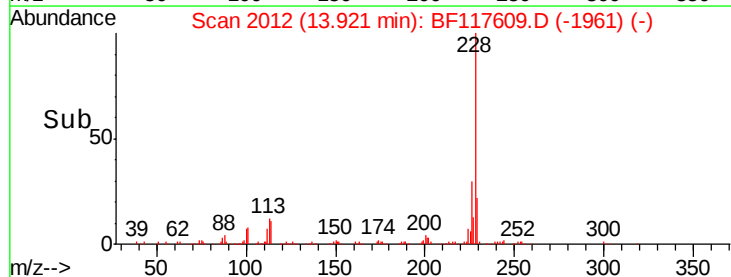
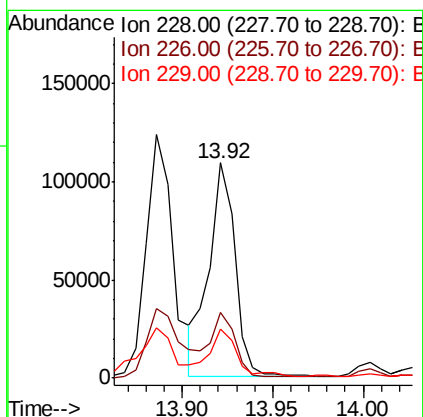
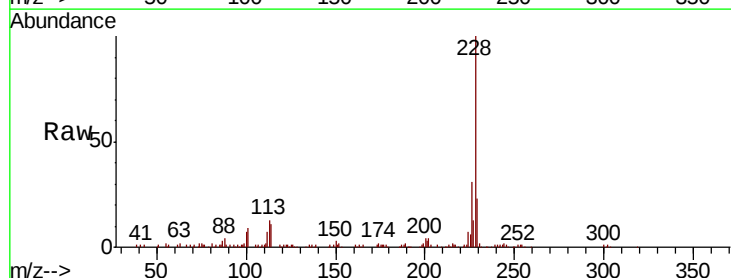
Instrument :
BNA_F
ClientSampleId :

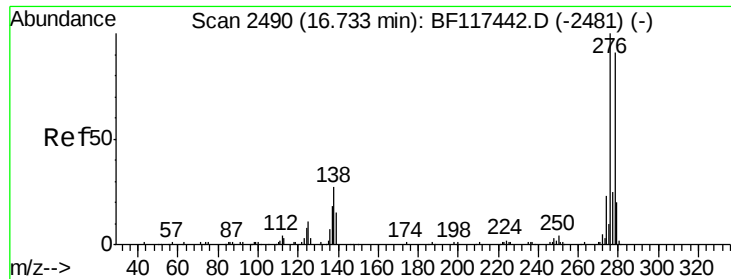
Tot Ion:228 Resp: 128363
Ion Ratio Lower Upper
228 100
226 28.7 21.0 31.4
229 20.7 16.4 24.6



#83
Chrysene
Concen: 25.701 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.00 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion:228 Resp: 110838
Ion Ratio Lower Upper
228 100
226 30.7 23.9 35.9
229 22.7 15.8 23.6

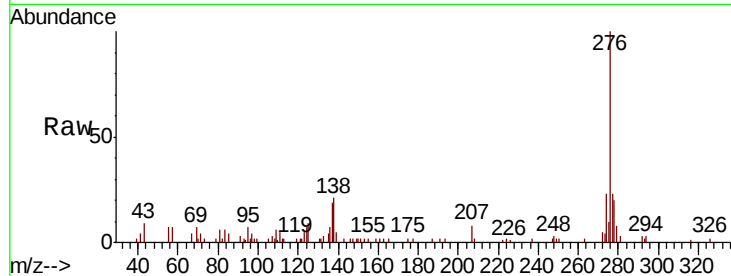




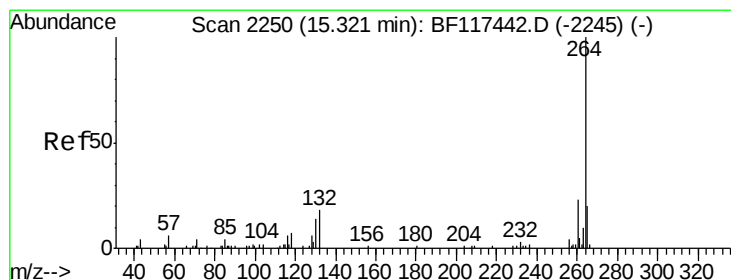
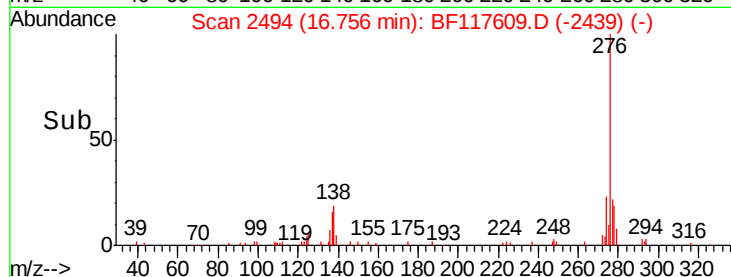
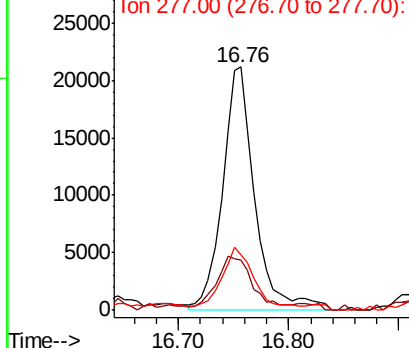
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 13.386 ng
 RT: 16.76 min Scan# 2494
 Delta R.T. 0.02 min
 Lab File: BF117609.D
 Acq: 30 Oct 2019 00:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.4	21.8	32.8
277	22.5	20.0	30.0

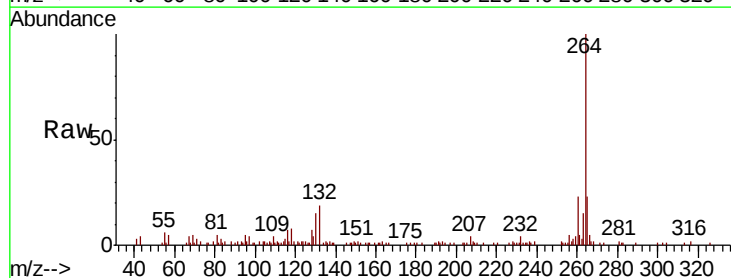


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

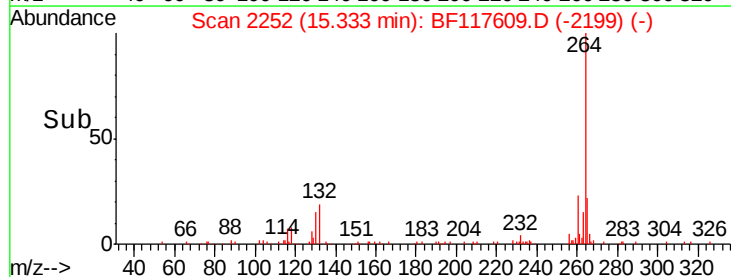
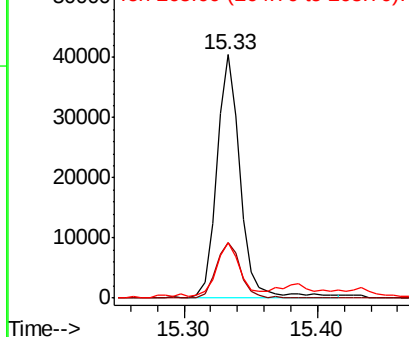


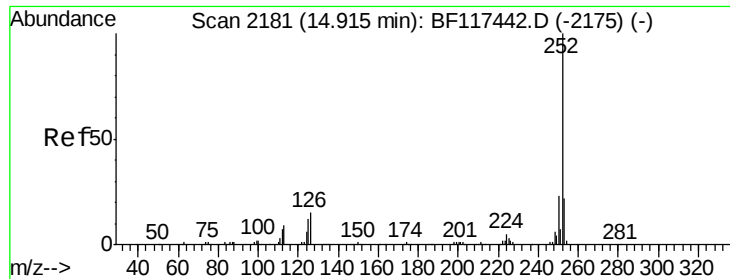
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.33 min Scan# 2252
 Delta R.T. 0.01 min
 Lab File: BF117609.D
 Acq: 30 Oct 2019 00:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.4	27.6
265	22.9	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

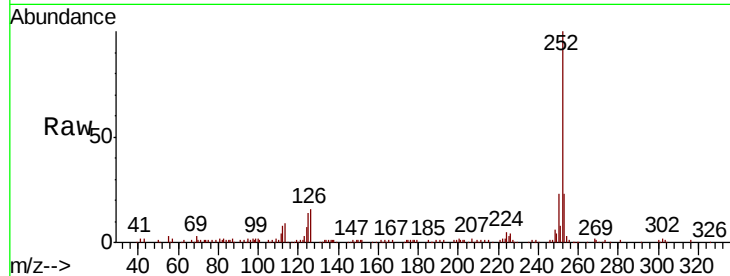




#88
Benzo(b)fluoranthene
Concen: 52.145 ng
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.6
125	13.6	9.9	14.9

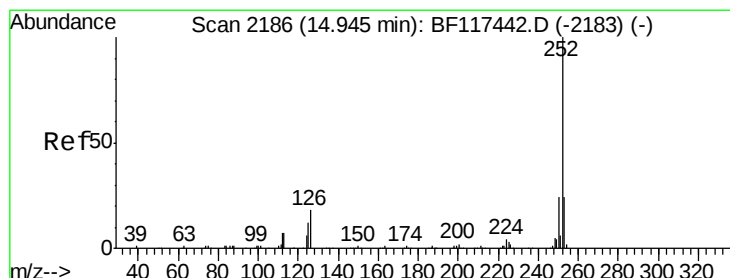
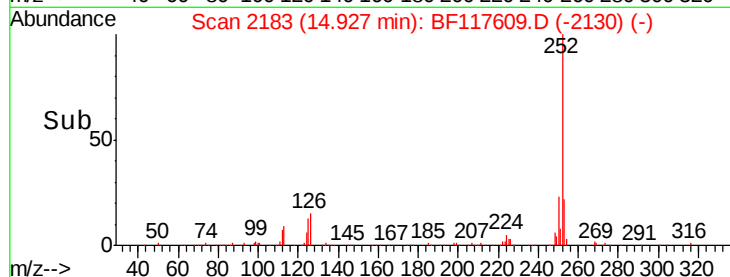
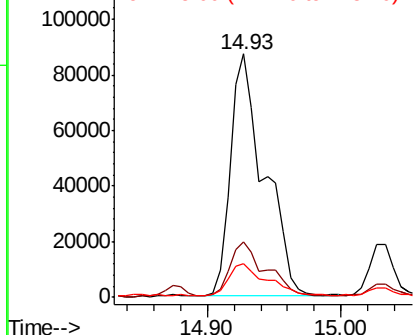


Abundance

Ion 252.00 (251.70 to 252.70): E

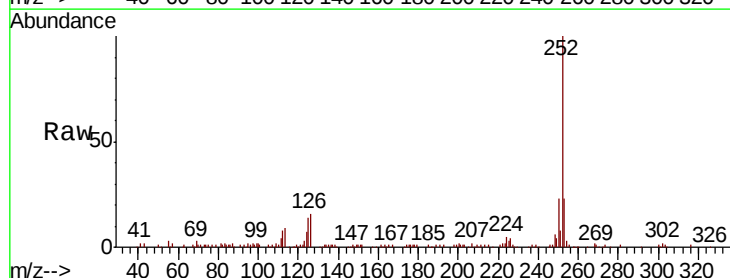
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 50.876 ng
RT: 14.93 min Scan# 2183
Delta R.T. -0.02 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	13.6	8.9	13.3#

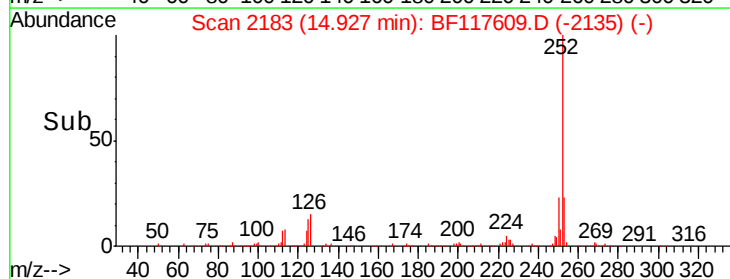
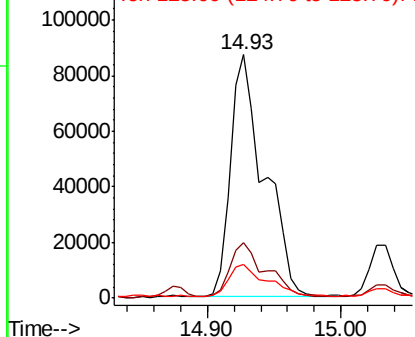


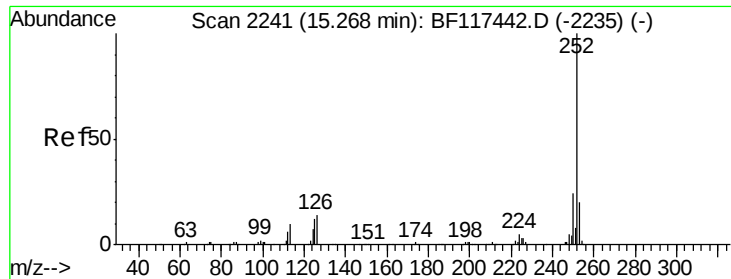
Abundance

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

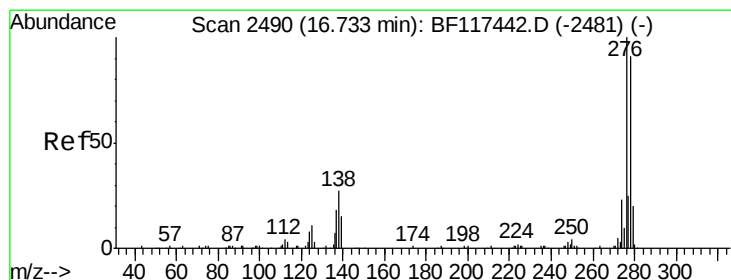
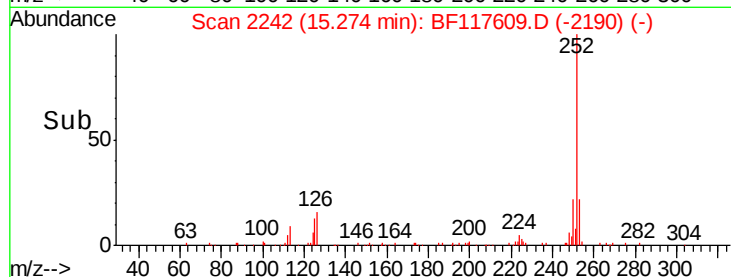
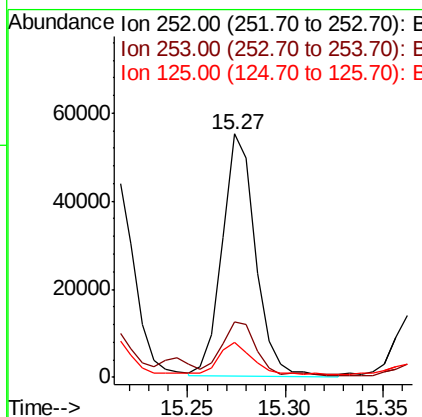
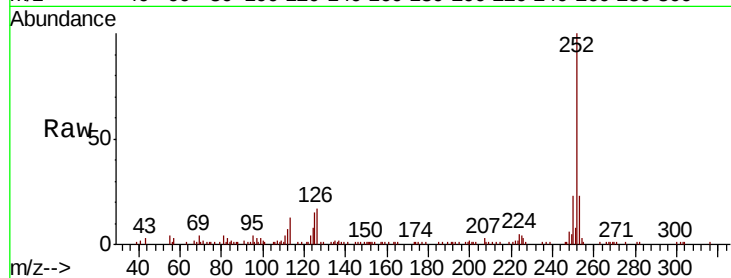




#90
Benzo(a)pyrene
Concen: 24.388 ng
RT: 15.27 min Scan# 2242
Delta R.T. 0.01 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

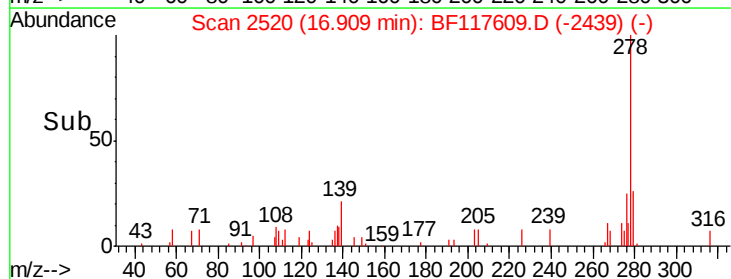
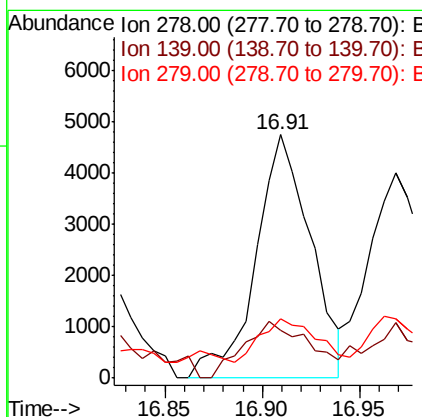
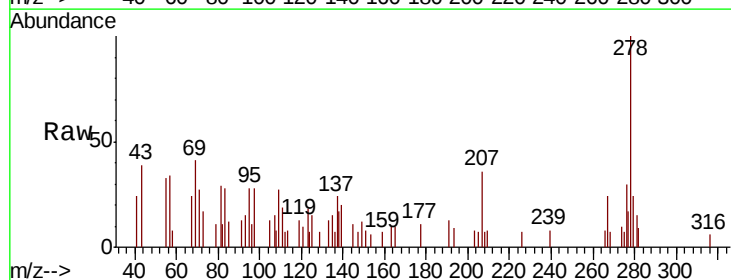
Instrument :
BNA_F
ClientSampleId :

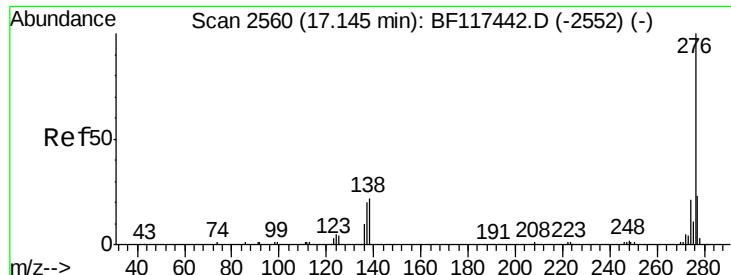
Tot Ion:252 Resp: 65619
Ion Ratio Lower Upper
252 100
253 22.9 16.3 24.5
125 14.6 9.2 13.8#



#91
Dibenzo(a,h)anthracene
Concen: 3.984 ng
RT: 16.91 min Scan# 2520
Delta R.T. 0.18 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion:278 Resp: 9269
Ion Ratio Lower Upper
278 100
139 19.5 13.4 20.0
279 24.4 17.8 26.6





#92

Benzo(a,h,i)perylene

Concen: 16.598 ng

RT: 17.18 min Scan# 2566

Delta R.T. 0.04 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

ClientSampleId :

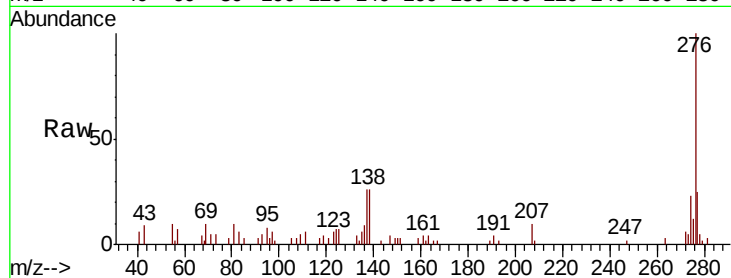
Tot Ion:276 Resp: 36537

Ion Ratio Lower Upper

276 100

277 24.8 18.4 27.6

138 26.4 17.8 26.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

