

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF100818\
 Data File : BF109681.D
 Acq On : 9 Oct 2018 7:29
 Operator : JU/SJ
 Sample : J5309-01
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-9

Quant Time: Oct 09 08:21:11 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 08 16:02:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	89024	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	336246	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	137145	20.00	ng	0.00
63) Phenanthrene-d10	11.20	188	229440	20.00	ng	0.00
75) Chrysene-d12	13.83	240	201087	20.00	ng	0.00
86) Perylene-d12	15.23	264	169723	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	375144	74.80	ng	0.00
7) Phenol-d6	6.35	99	522851	78.04	ng	-0.01
23) Nitrobenzene-d5	7.26	82	335237	54.96	ng	-0.01
41) 2,4,6-Tribromophenol	10.51	330	98744	66.08	ng	0.00
44) 2-Fluorobiphenyl	9.05	172	588394	59.09	ng	0.00
78) Terphenyl-d14	12.78	244	471465	45.39	ng	0.00

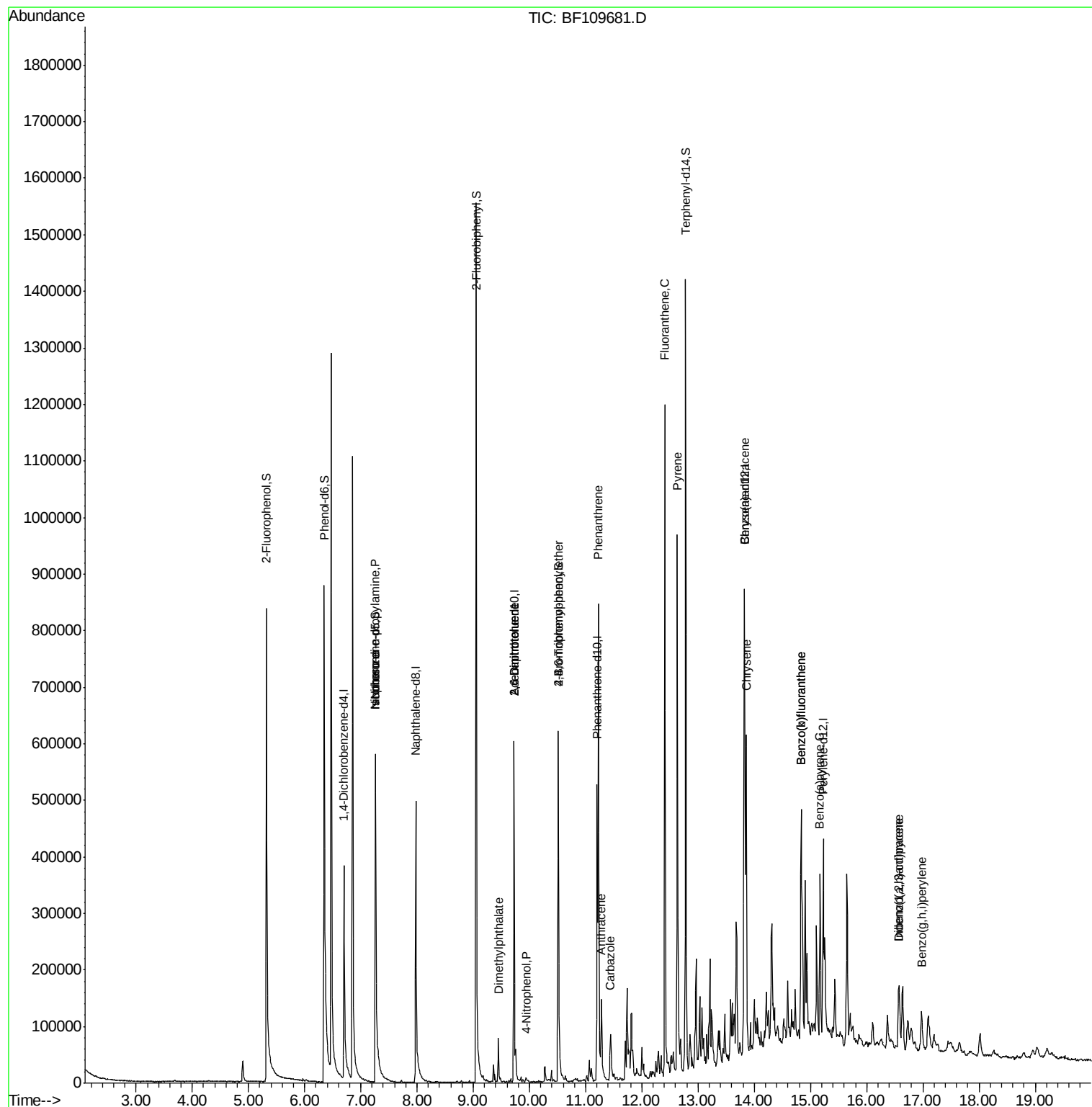
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.26	70	43475	9.253	ng	# 80
25) Isophorone	7.26	82	335237	33.096	ng	# 67
49) Dimethylphthalate	9.45	163	39575	3.935	ng	97
50) 2,6-Dinitrotoluene	9.72	165	17113	7.849	ng	# 21
55) 4-Nitrophenol	9.94	139	3070	2.295	ng	# 6
56) 2,4-Dinitrotoluene	9.72	165	17113	6.289	ng	# 17
66) 4-Bromophenyl-phenylether	10.51	248	5717	2.169	ng	# 1
70) Phenanthrene	11.23	178	369146	32.150	ng	99
71) Anthracene	11.28	178	86530	7.290	ng	97
72) Carbazole	11.45	167	58392	5.072	ng	98
74) Fluoranthene	12.41	202	538282	44.875	ng	98
77) Pyrene	12.63	202	441639	29.976	ng	99
80) Benzo(a)anthracene	13.82	228	237945	21.443	ng	98
82) Chrysene	13.86	228	245590	21.070	ng	98
85) Indeno(1,2,3-cd)pyrene	16.57	276	68436	8.203	ng	95
87) Benzo(b)fluoranthene	14.83	252	302244	32.225	ng	99
88) Benzo(k)fluoranthene	14.83	252	302244	32.072	ng	98
89) Benzo(a)pyrene	15.17	252	145792	17.129	ng	97
90) Dibenzo(a,h)anthracene	16.57	278	19335	2.766	ng	99
91) Benzo(g,h,i)perylene	16.97	276	63867	9.150	ng	97

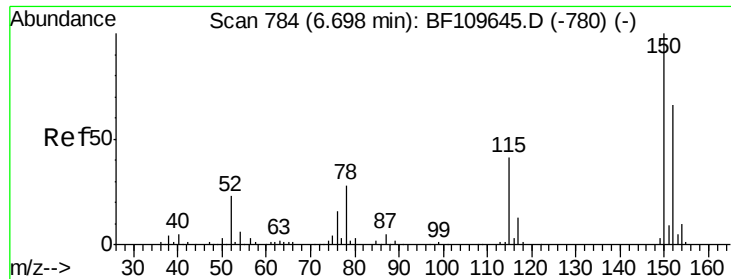
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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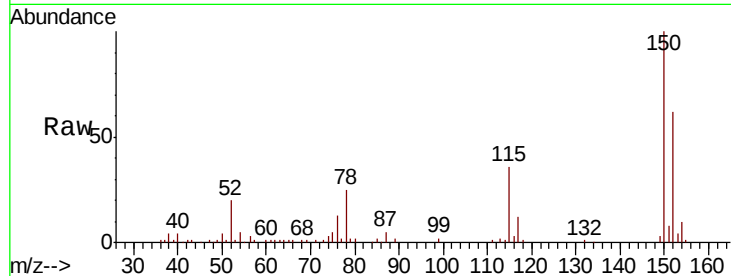




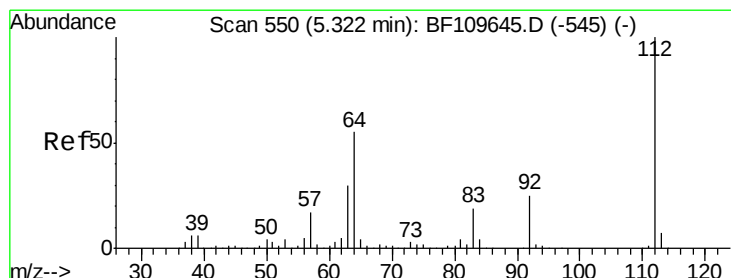
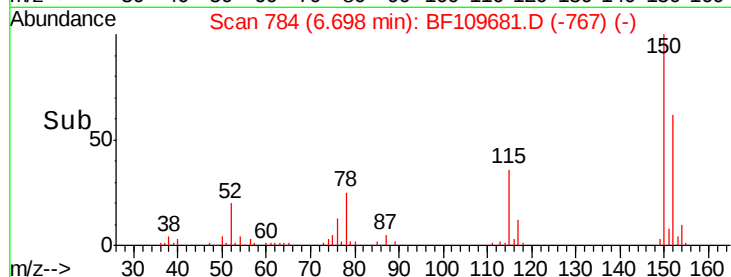
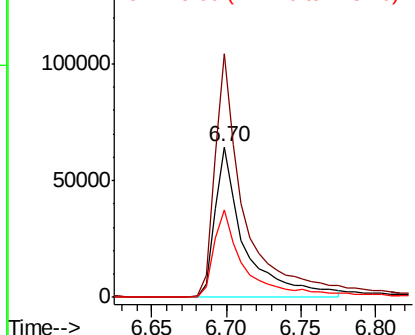
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.70 min Scan# 784
 Delta R.T. -0.00 min
 Lab File: BF109681.D
 Acq: 9 Oct 2018 7:29

Instrument :
 BNA_F
 ClientSampleId :
 S-9

Tgt Ion:152 Resp: 89024
 Ion Ratio Lower Upper
 152 100
 150 161.7 122.7 184.1
 115 58.4 49.1 73.7

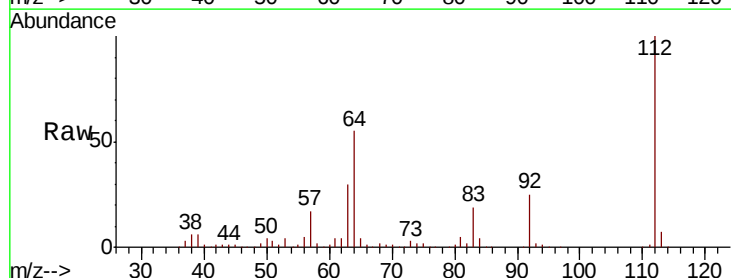


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

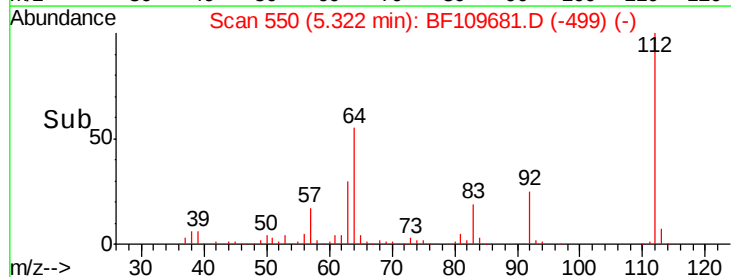
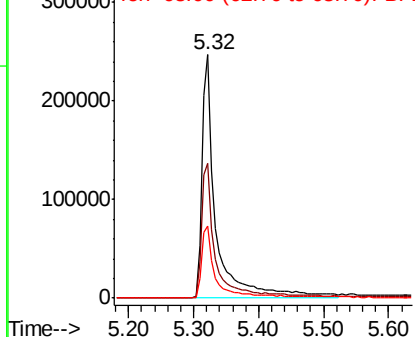


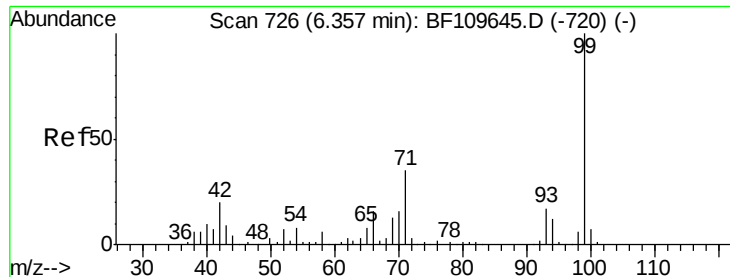
#5
 2-Fluorophenol
 Concen: 74.799 ng
 RT: 5.32 min Scan# 550
 Delta R.T. 0.00 min
 Lab File: BF109681.D
 Acq: 9 Oct 2018 7:29

Tgt Ion:112 Resp: 375144
 Ion Ratio Lower Upper
 112 100
 64 55.4 44.1 66.1
 63 29.8 23.7 35.5



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: 78.038 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

Instrument :

BNA_F

ClientSampleId :

S-9

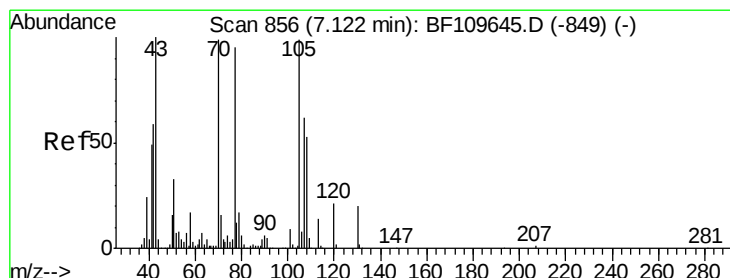
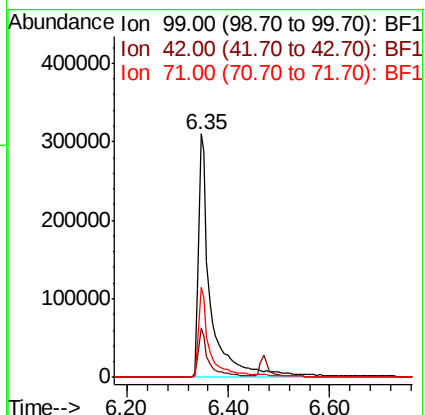
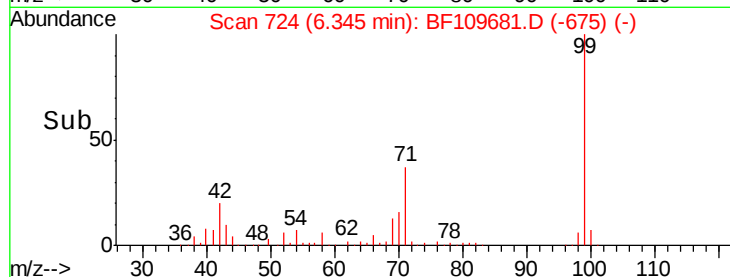
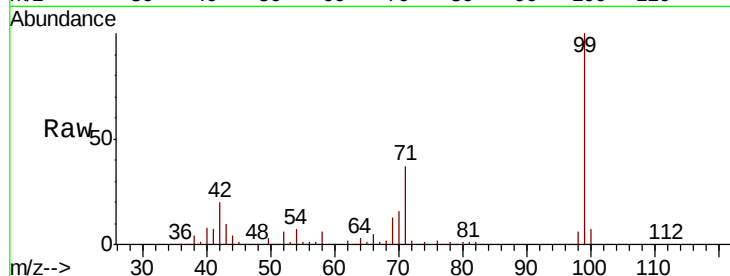
Tgt Ion: 99 Resp: 522851

Ion Ratio Lower Upper

99 100

42 19.9 15.8 23.6

71 36.8 28.0 42.0



#19

n-Nitroso-di-n-propylamine

Concen: 9.253 ng

RT: 7.26 min Scan# 879

Delta R.T. 0.14 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

Tgt Ion: 70 Resp: 43475

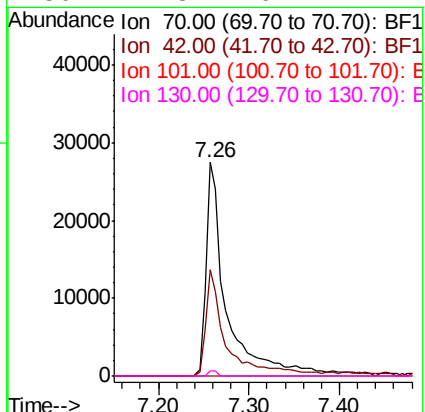
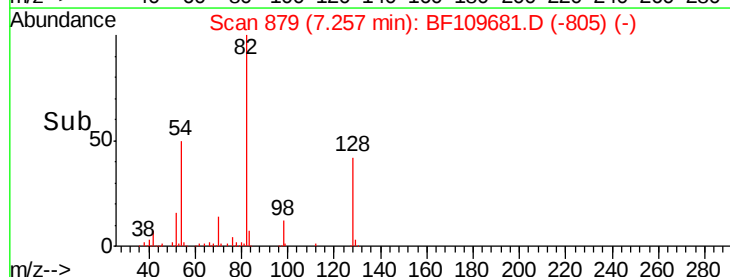
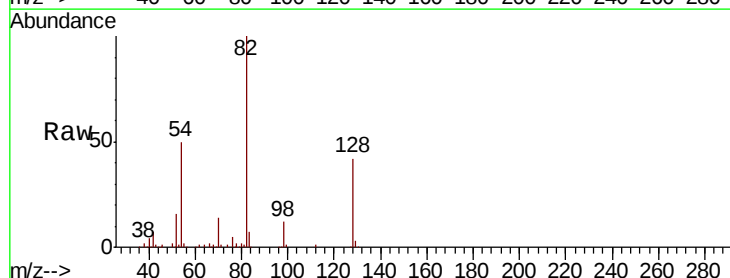
Ion Ratio Lower Upper

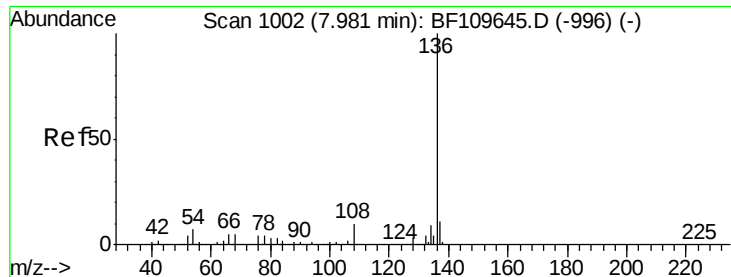
70 100

42 49.9 47.4 71.2

101 0.0 7.3 10.9#

130 2.3 16.2 24.2#

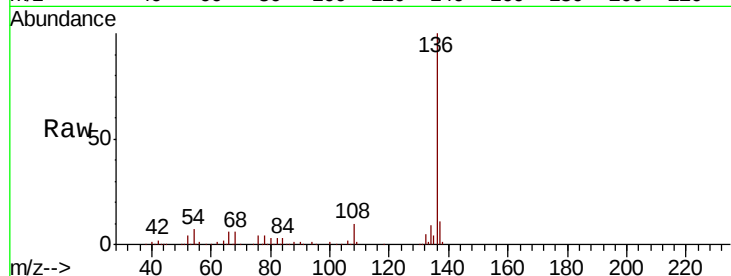




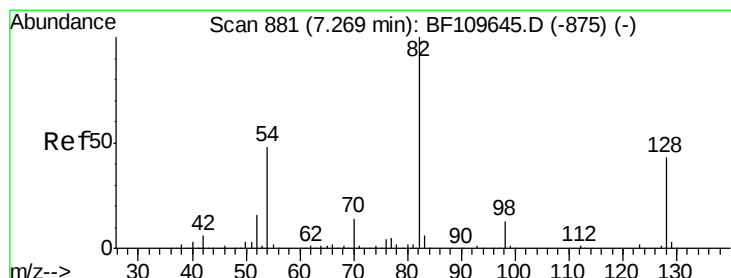
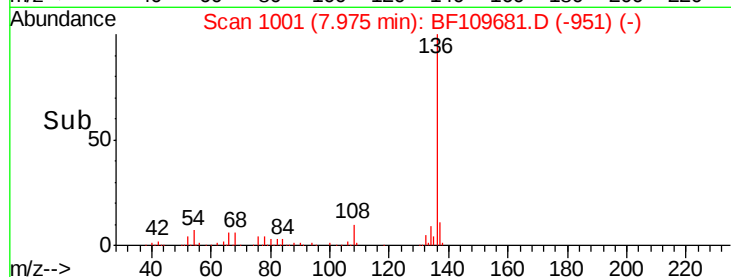
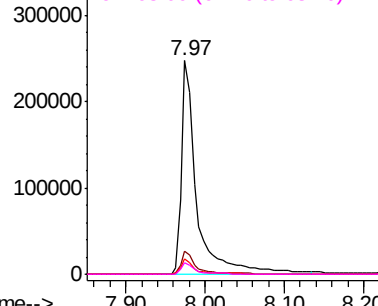
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.97 min Scan# 1001
Delta R.T. -0.01 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Instrument :
BNA_F
ClientSampleId :
S-9

Tgt Ion:	136	Resp:	336246
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.8	13.2
54	7.2	5.4	8.2
68	5.7	4.2	6.2

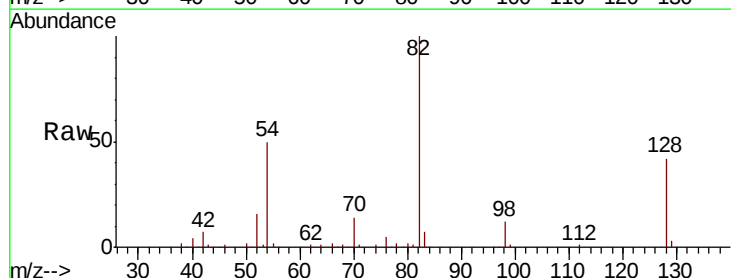


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

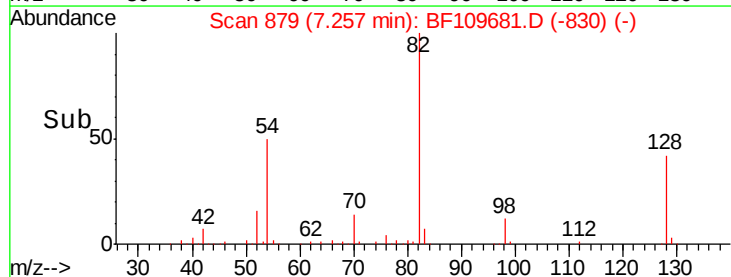
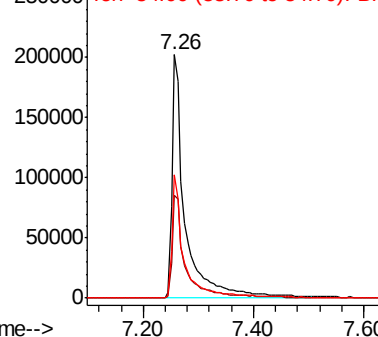


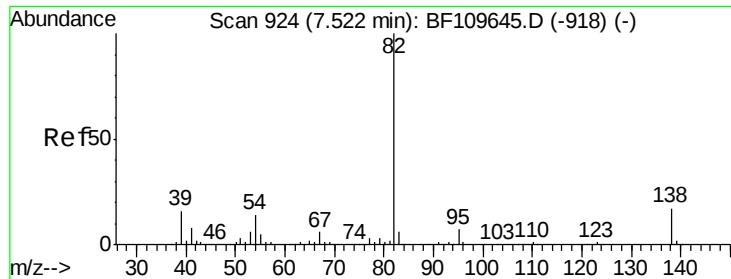
#23
Nitrobenzene-d5
Concen: 54.958 ng
RT: 7.26 min Scan# 879
Delta R.T. -0.01 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Tgt Ion:	82	Resp:	335237
Ion	Ratio	Lower	Upper
82	100		
128	42.1	34.2	51.2
54	50.5	38.6	58.0



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

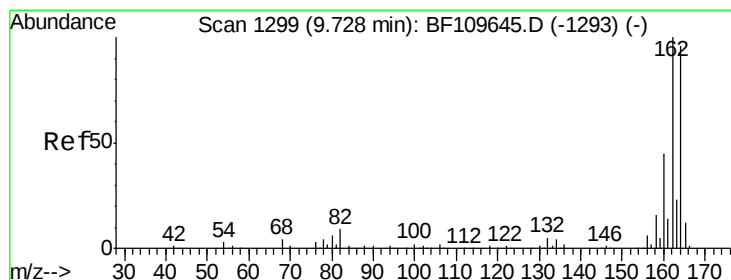
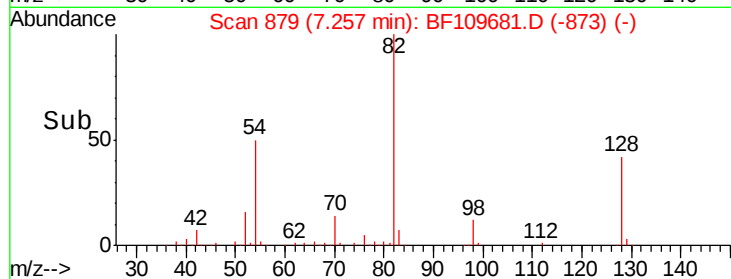
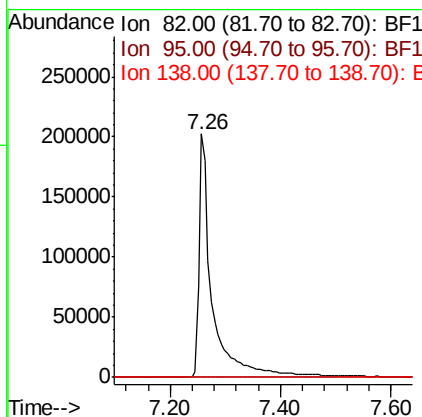
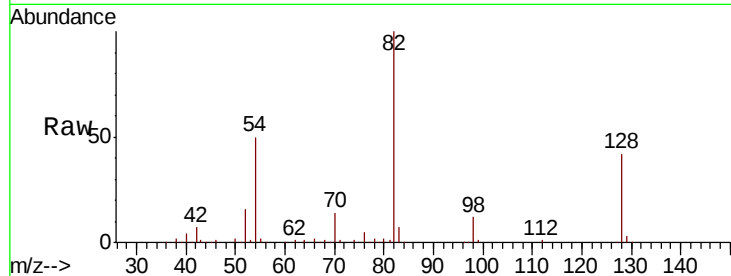




#25
Isophorone
Concen: 33.096 ng
RT: 7.26 min Scan# 879
Delta R.T. -0.26 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

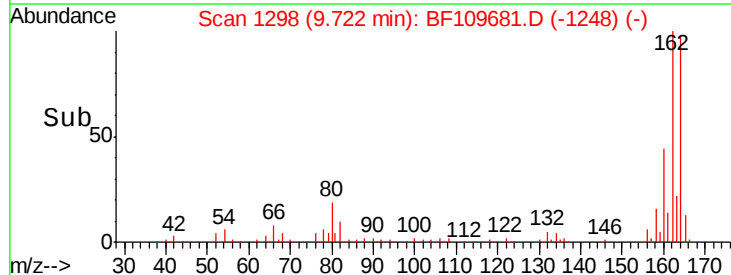
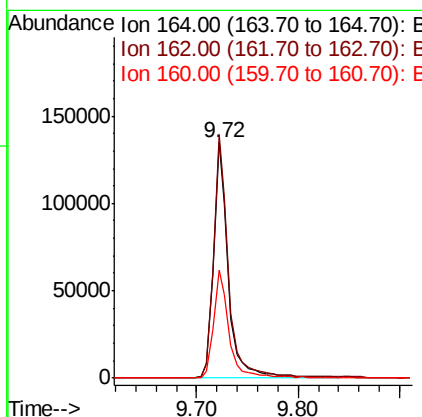
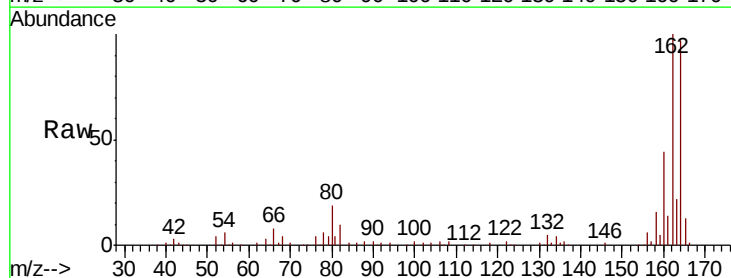
Instrument :
BNA_F
ClientSampled :
S-9

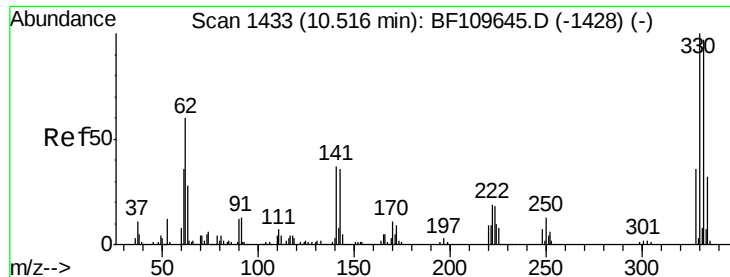
Tgt Ion: 82 Resp: 335237
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 13.2 19.8#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Tgt Ion: 164 Resp: 137145
Ion Ratio Lower Upper
164 100
162 103.4 83.0 124.6
160 45.7 37.0 55.6

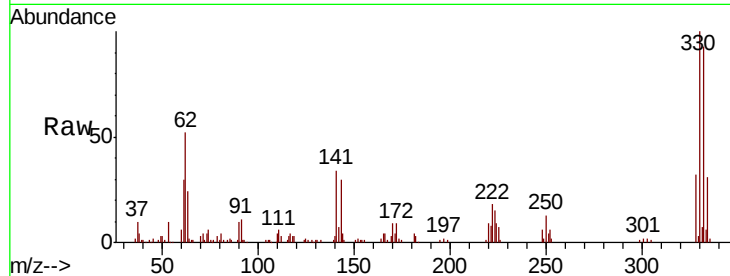




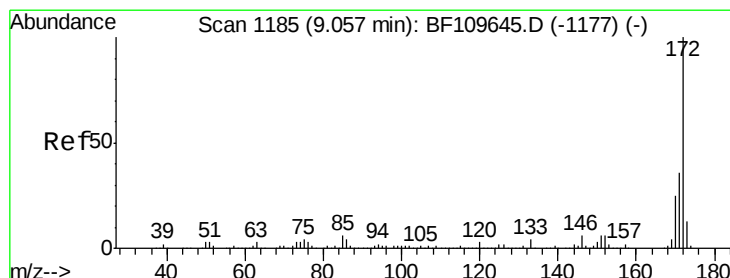
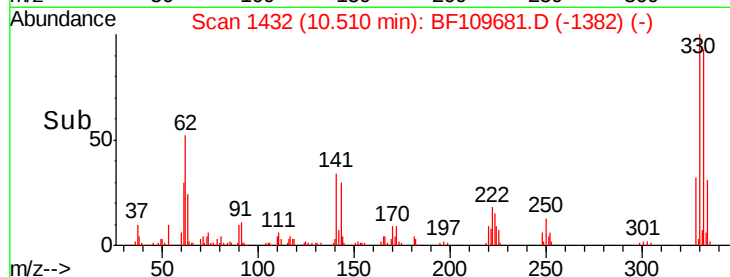
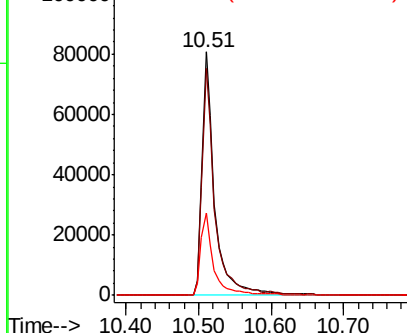
#41
 2,4,6-Tribromophenol
 Concen: 66.079 ng
 RT: 10.51 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: BF109681.D
 Acq: 9 Oct 2018 7:29

Instrument :
 BNA_F
 ClientSampleId :
 S-9

Tgt Ion:330 Resp: 98744
 Ion Ratio Lower Upper
 330 100
 332 93.4 77.1 115.7
 141 34.4 27.0 40.4

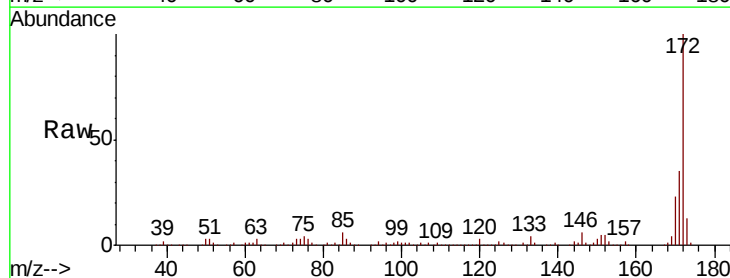


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

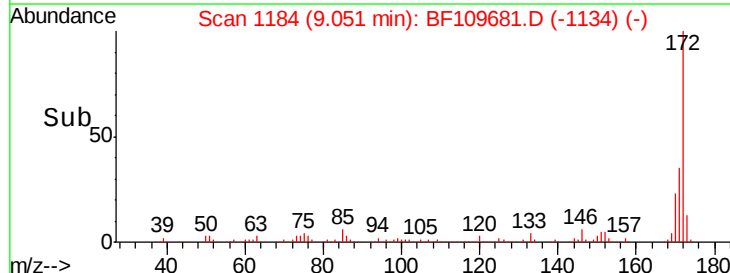
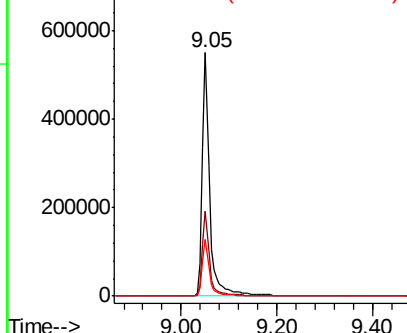


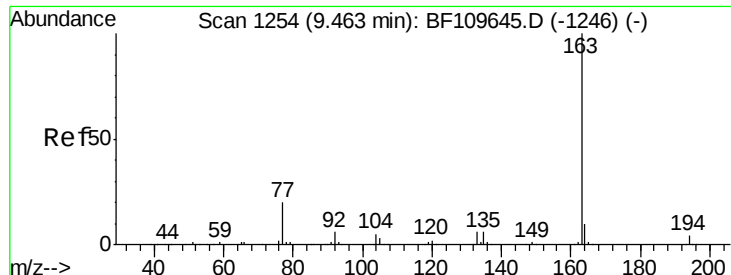
#44
 2-Fluorobiphenyl
 Concen: 59.088 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: BF109681.D
 Acq: 9 Oct 2018 7:29

Tgt Ion:172 Resp: 588394
 Ion Ratio Lower Upper
 172 100
 171 34.8 28.6 43.0
 170 23.4 19.7 29.5



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

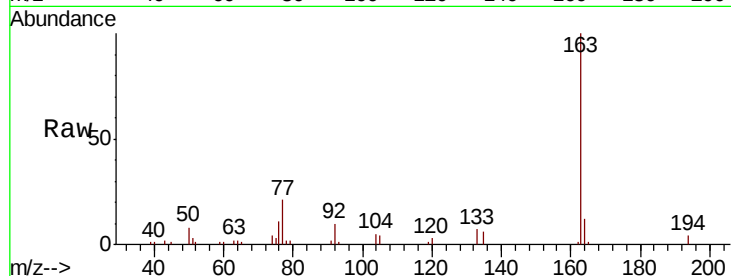




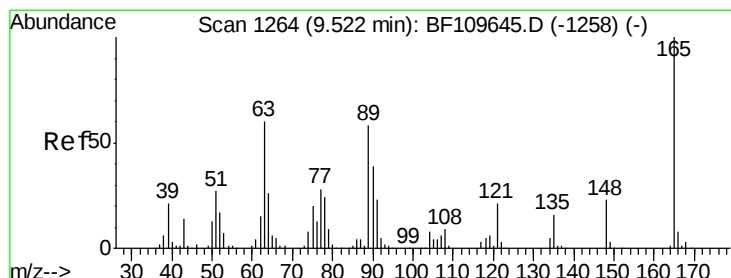
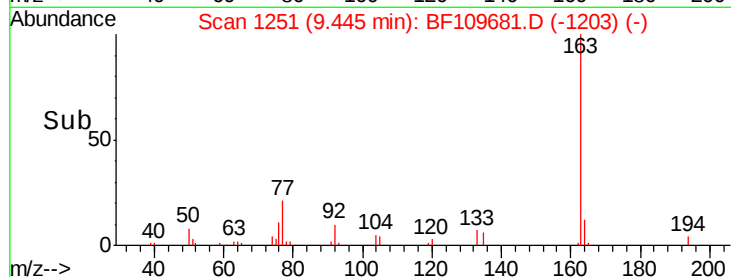
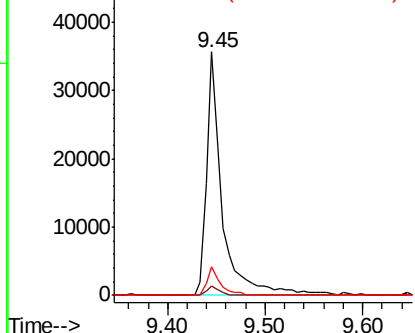
#49
Dimethylphthalate
Concen: 3.935 ng
RT: 9.45 min Scan# 1251
Delta R.T. -0.02 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Instrument :
BNA_F
ClientSampleId :
S-9

Tgt Ion:163 Resp: 39575
Ion Ratio Lower Upper
163 100
194 3.6 3.2 4.8
164 11.7 8.1 12.1

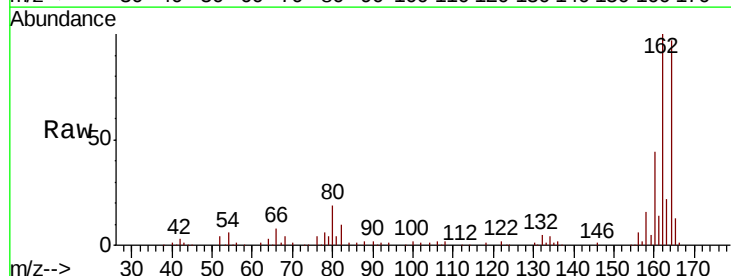


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

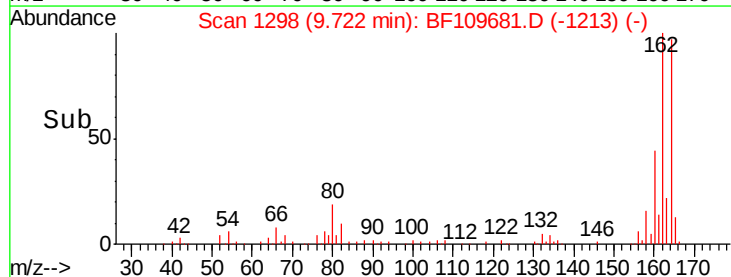
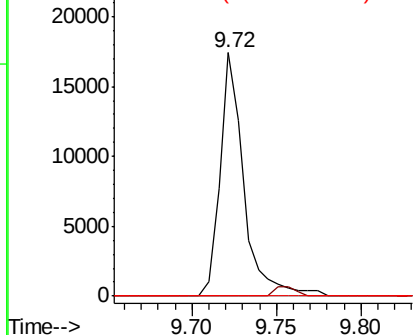


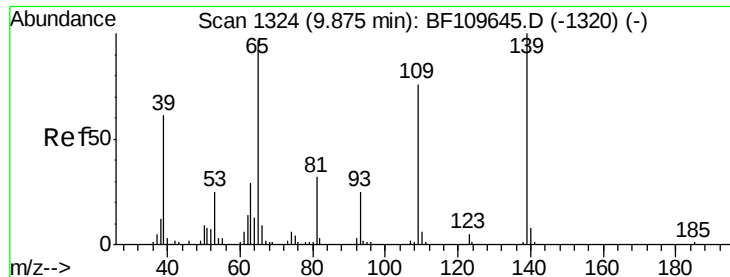
#50
2,6-Dinitrotoluene
Concen: 7.849 ng
RT: 9.72 min Scan# 1298
Delta R.T. 0.20 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Tgt Ion:165 Resp: 17113
Ion Ratio Lower Upper
165 100
63 0.0 48.9 73.3#
89 0.0 46.6 69.8#



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

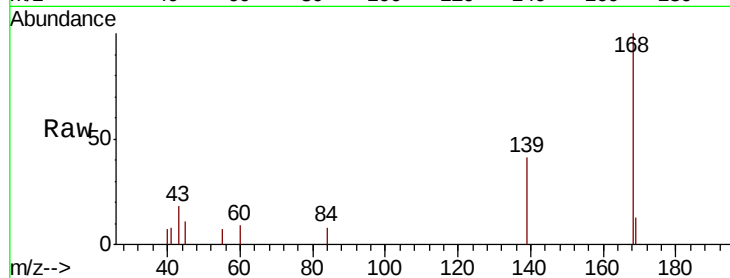




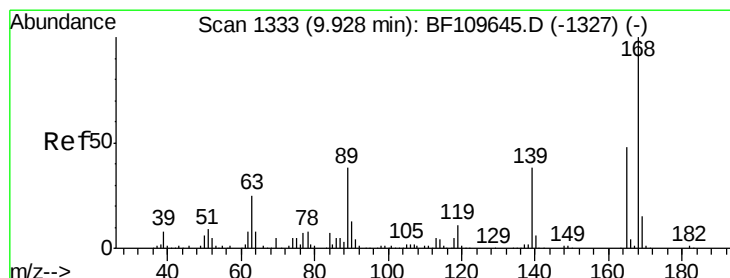
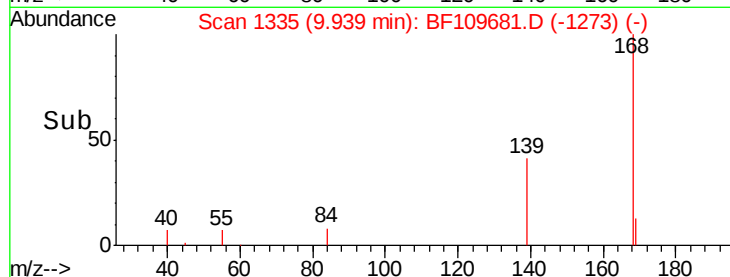
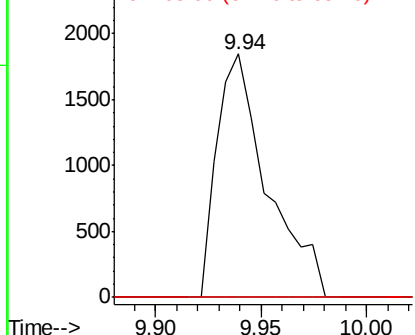
#55
4-Nitrophenol
Concen: 2.295 ng
RT: 9.94 min Scan# 1335
Delta R.T. 0.06 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Instrument :
BNA_F
ClientSampleId :
S-9

Tgt Ion:139 Resp: 3070
Ion Ratio Lower Upper
139 100
109 0.0 55.8 95.8#
65 0.0 77.9 117.9#

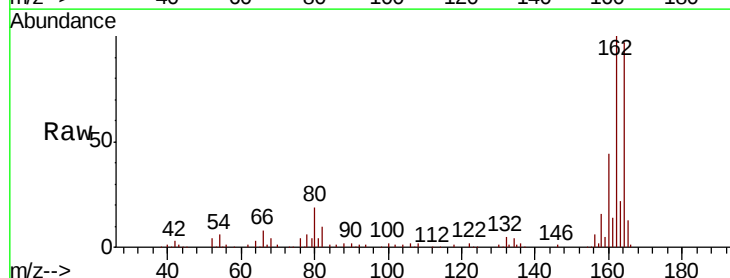


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

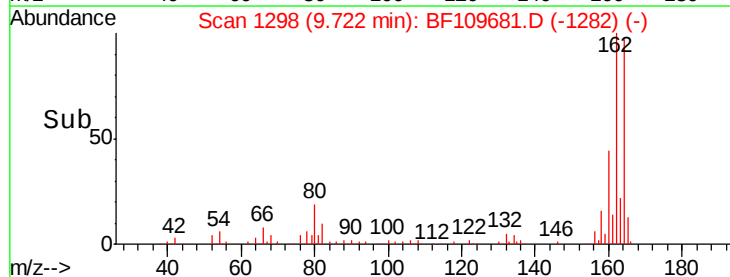
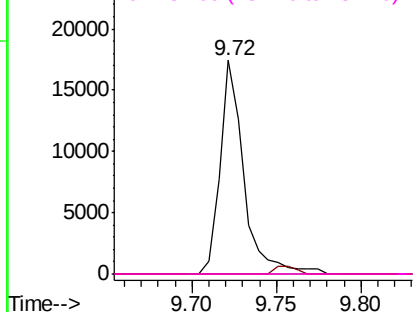


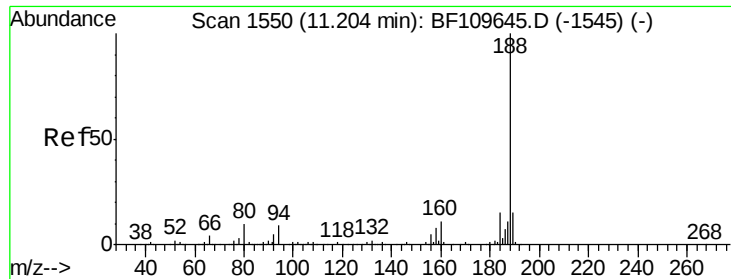
#56
2,4-Dinitrotoluene
Concen: 6.289 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.21 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Tgt Ion:165 Resp: 17113
Ion Ratio Lower Upper
165 100
63 0.0 44.8 67.2#
89 0.0 62.2 93.4#
182 0.0 2.1 3.1#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

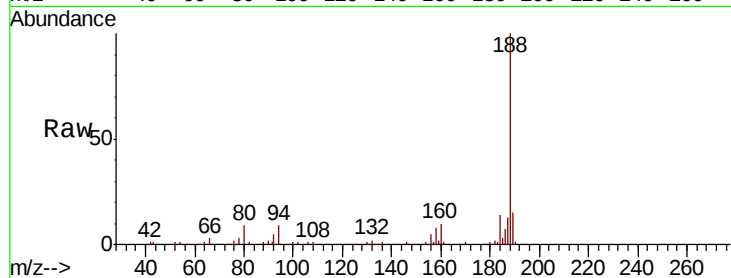




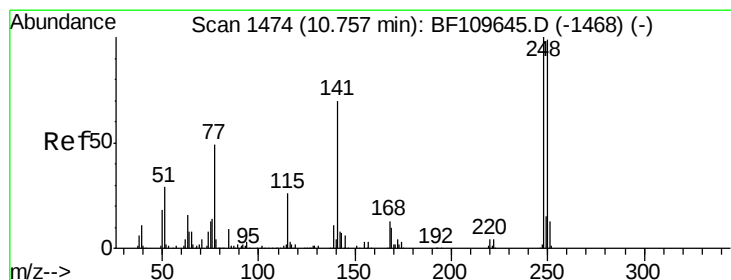
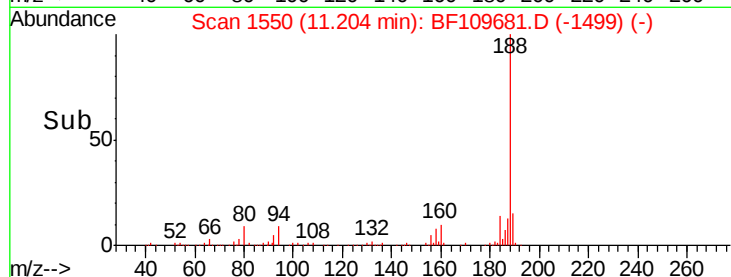
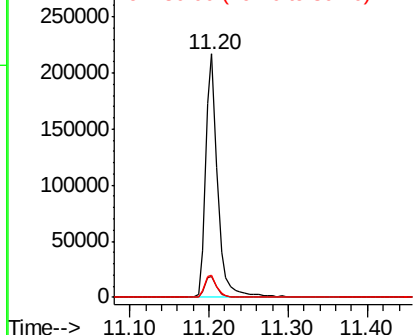
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1550
Delta R.T. -0.00 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Instrument :
BNA_F
ClientSampleId :
S-9

Tgt Ion:188 Resp: 229440
Ion Ratio Lower Upper
188 100
94 8.6 7.2 10.8
80 9.0 7.9 11.9

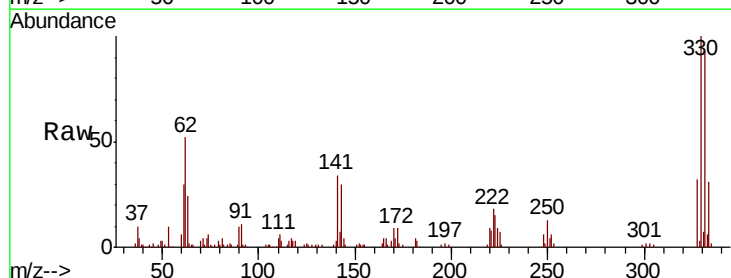


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

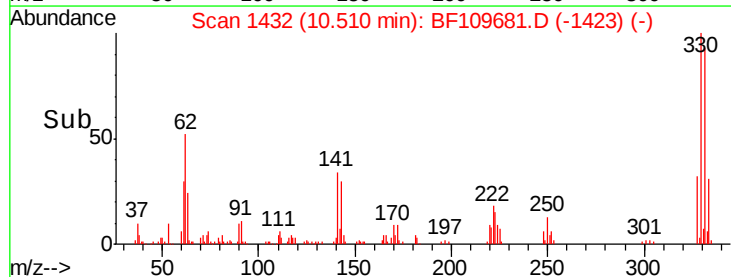
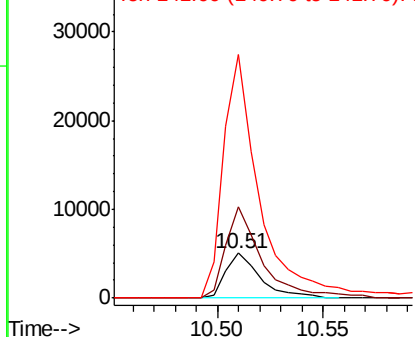


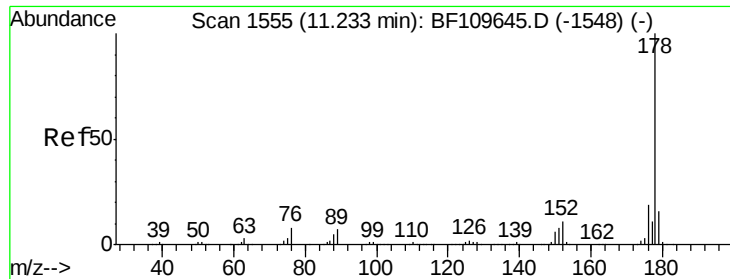
#66
4-Bromophenyl-phenylether
Concen: 2.169 ng
RT: 10.51 min Scan# 1432
Delta R.T. -0.25 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Tgt Ion:248 Resp: 5717
Ion Ratio Lower Upper
248 100
250 201.9 79.4 119.2#
141 540.6 55.9 83.9#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

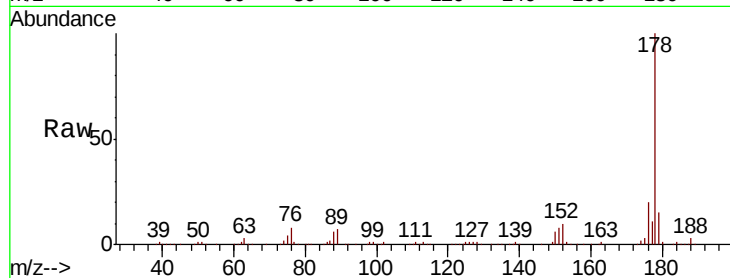




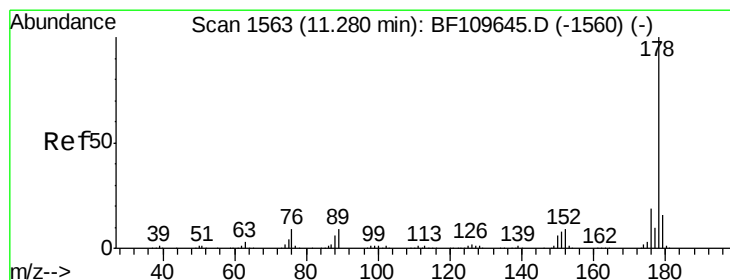
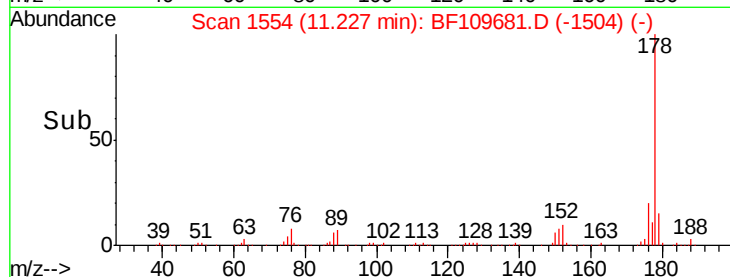
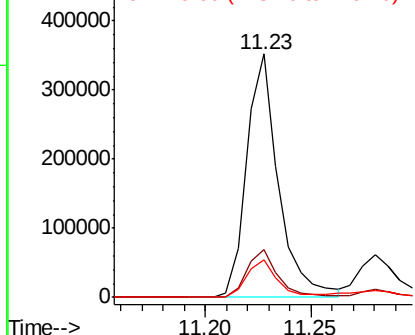
#70
Phenanthrene
Concen: 32.150 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.01 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Instrument :
BNA_F
ClientSampleId :
S-9

Tgt Ion:178 Resp: 369146
Ion Ratio Lower Upper
178 100
176 19.7 15.5 23.3
179 15.4 12.5 18.7

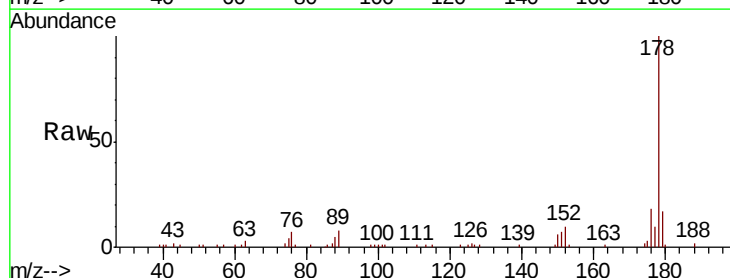


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

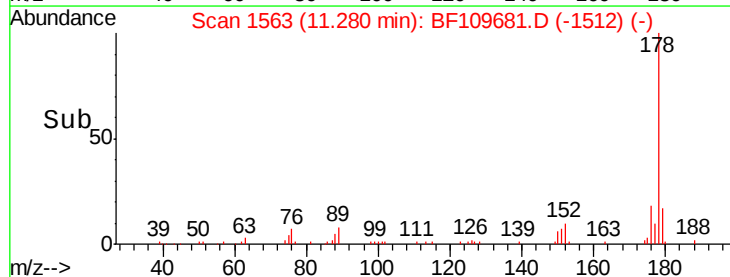
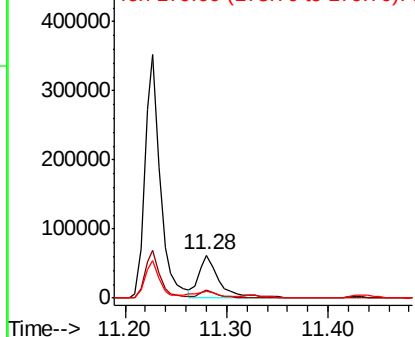


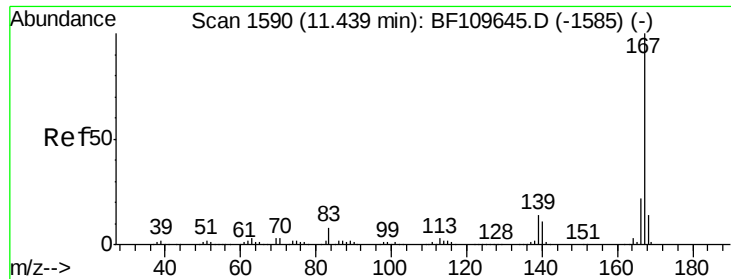
#71
Anthracene
Concen: 7.290 ng
RT: 11.28 min Scan# 1563
Delta R.T. -0.00 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Tgt Ion:178 Resp: 86530
Ion Ratio Lower Upper
178 100
176 18.0 15.4 23.2
179 17.0 12.6 18.8



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

Carbazole

Concen: 5.072 ng

RT: 11.45 min Scan# 1591

Delta R.T. 0.01 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

Instrument :

BNA_F

ClientSampleId :

S-9

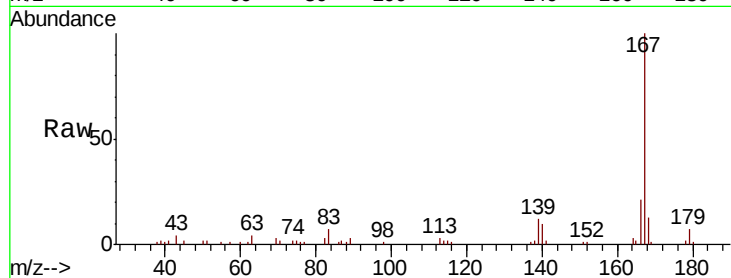
Tgt Ion:167 Resp: 58392

Ion Ratio Lower Upper

167 100

166 21.0 17.4 26.0

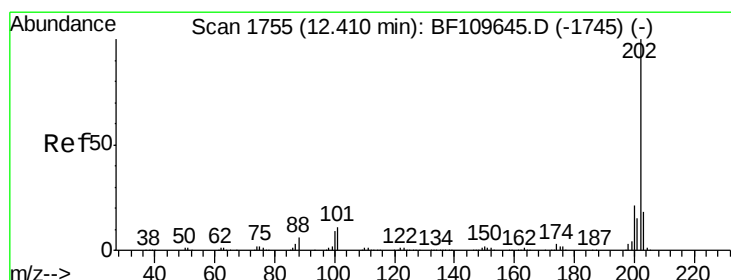
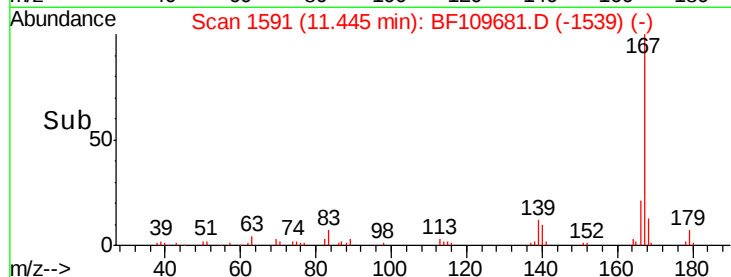
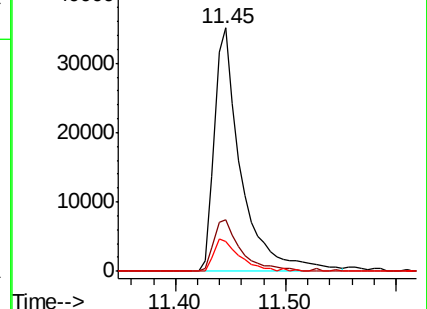
139 12.1 10.9 16.3



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



#74

Fluoranthene

Concen: 44.875 ng

RT: 12.41 min Scan# 1755

Delta R.T. -0.00 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

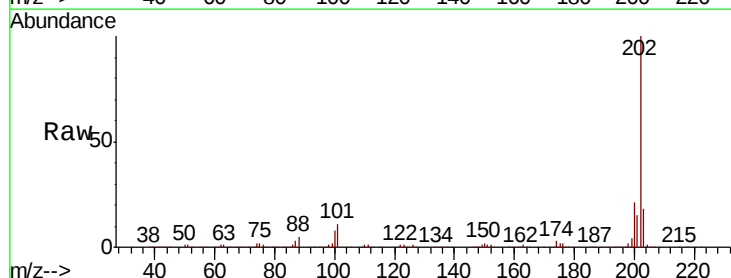
Tgt Ion:202 Resp: 538282

Ion Ratio Lower Upper

202 100

101 10.7 0.0 31.4

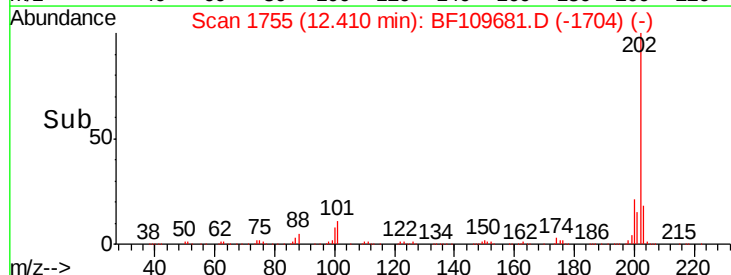
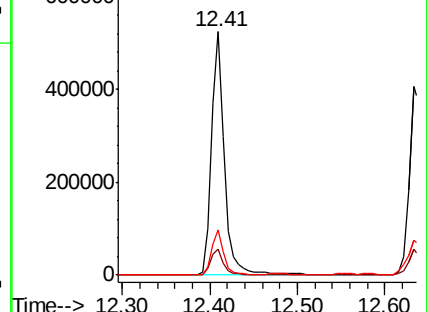
203 18.3 0.0 37.7

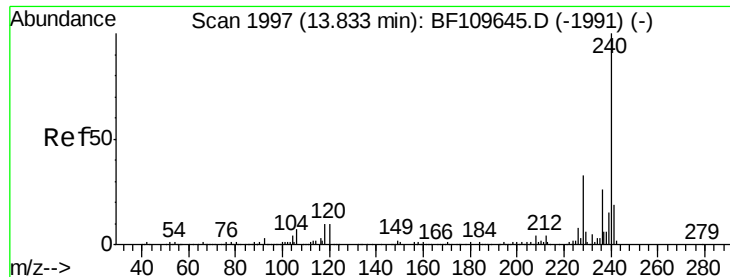


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

Instrument :

BNA_F

ClientSampleId :

S-9

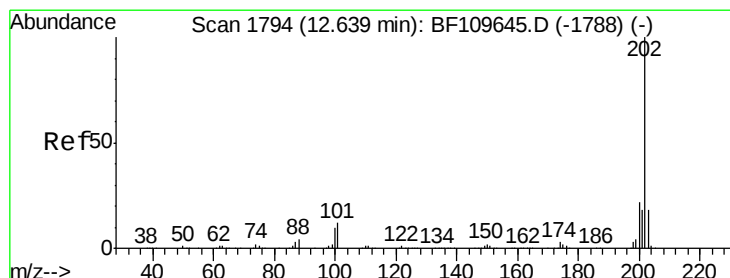
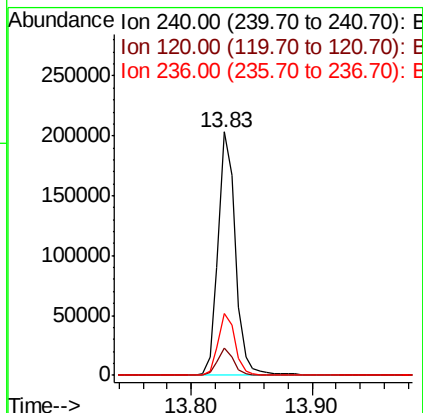
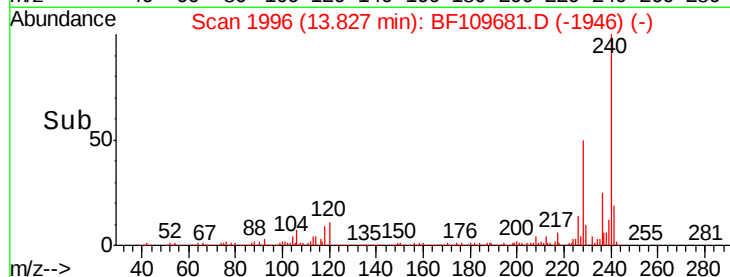
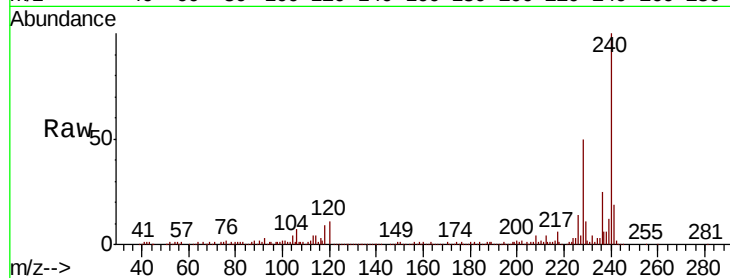
Tgt Ion:240 Resp: 201087

Ion Ratio Lower Upper

240 100

120 11.0 8.3 12.5

236 25.5 21.2 31.8



#77

Pyrene

Concen: 29.976 ng

RT: 12.63 min Scan# 1793

Delta R.T. -0.01 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

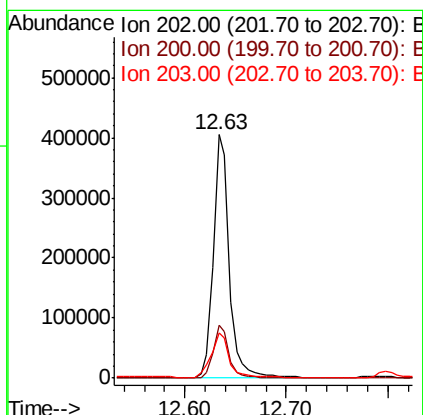
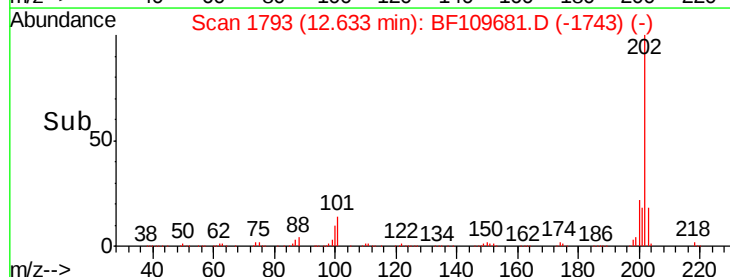
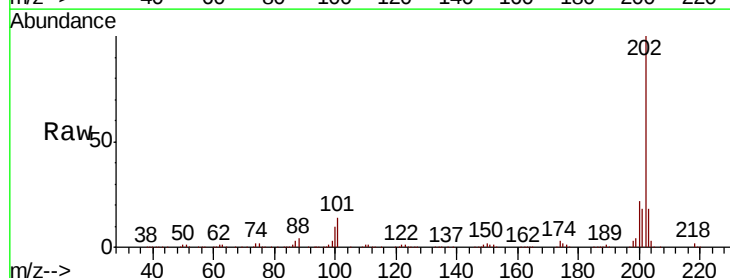
Tgt Ion:202 Resp: 441639

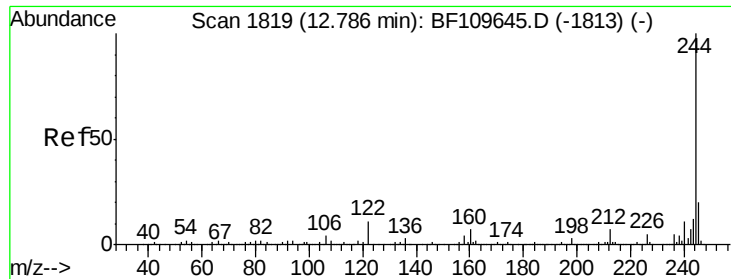
Ion Ratio Lower Upper

202 100

200 21.8 17.8 26.6

203 18.5 14.2 21.4





#78

Terphenyl-d14

Concen: 45.387 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

Instrument :

BNA_F

ClientSampleId :

S-9

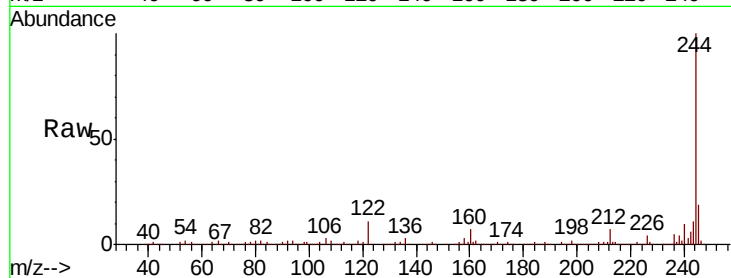
Tgt Ion:244 Resp: 471465

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

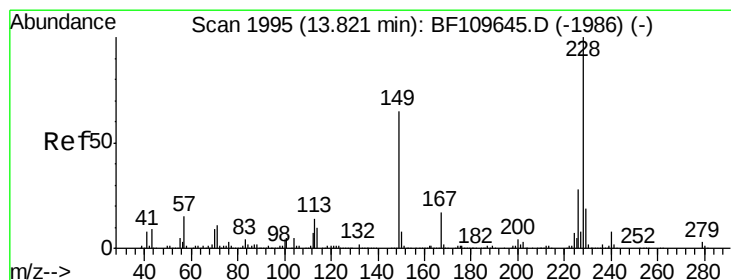
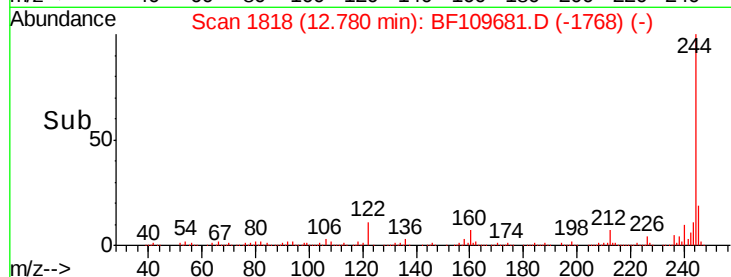
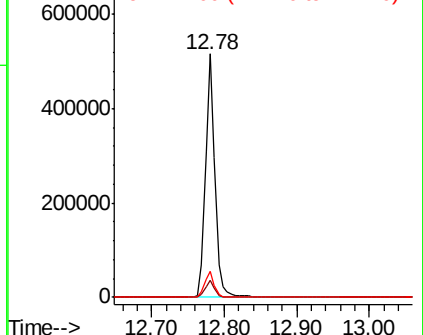
122 10.5 8.7 13.1



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

Benzo(a)anthracene

Concen: 21.443 ng

RT: 13.82 min Scan# 1995

Delta R.T. -0.00 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

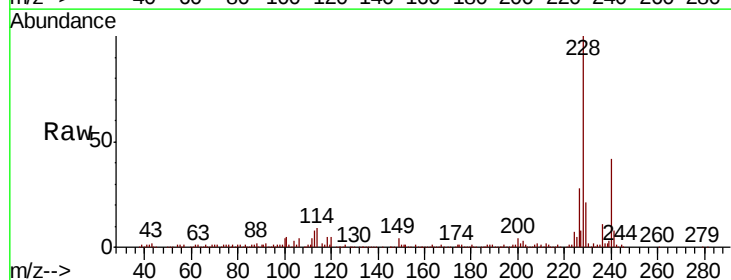
Tgt Ion:228 Resp: 237945

Ion Ratio Lower Upper

228 100

226 28.4 22.1 33.1

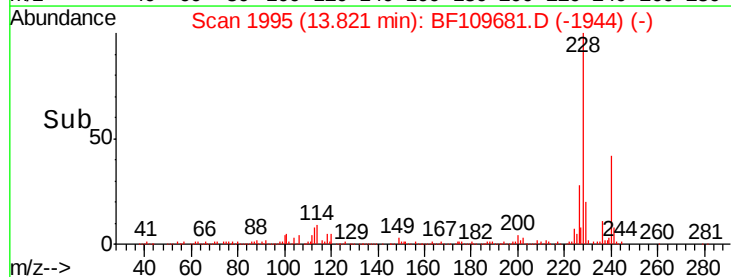
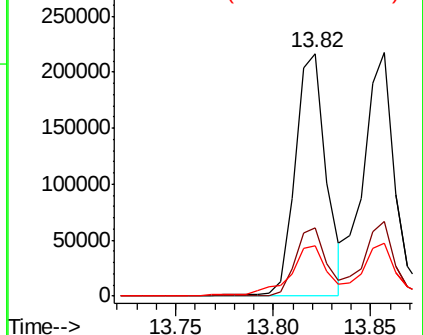
229 20.7 15.6 23.4

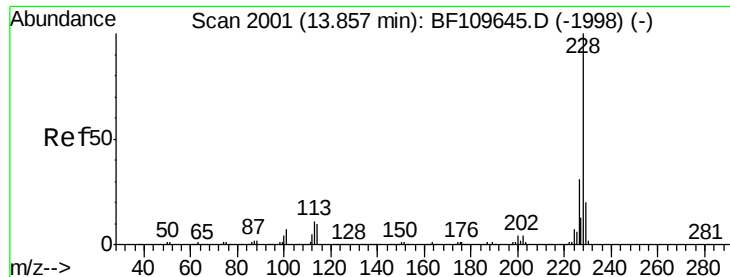


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 21.070 ng

RT: 13.86 min Scan# 2001

Delta R.T. 0.00 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

Instrument :

BNA_F

ClientSampled :

S-9

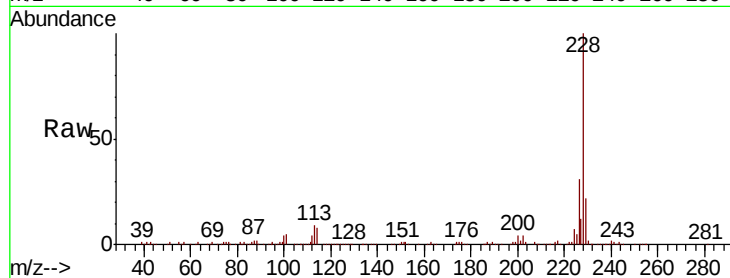
Tgt Ion:228 Resp: 245590

Ion Ratio Lower Upper

228 100

226 30.6 24.7 37.1

229 21.9 15.9 23.9

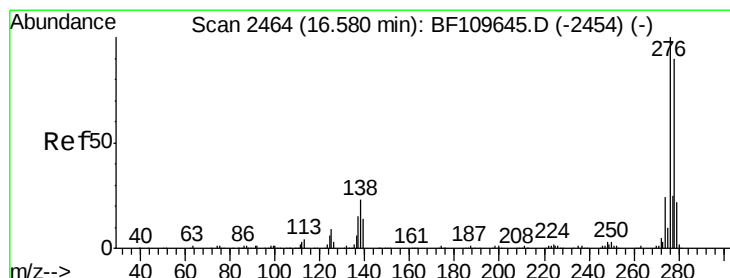
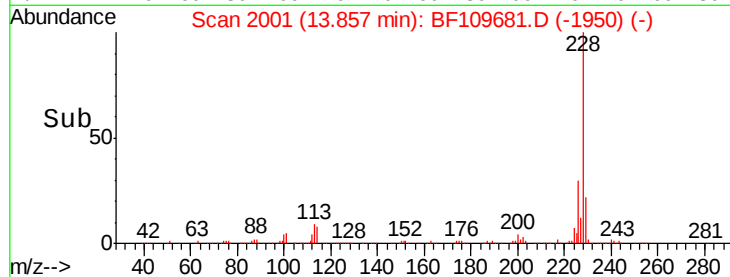
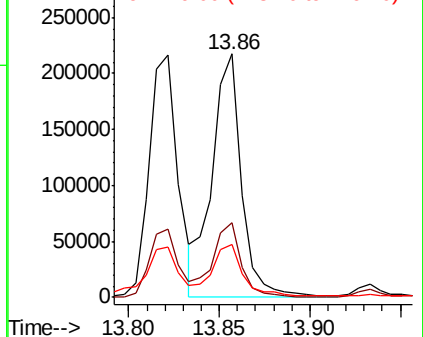


Abundance

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



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.203 ng

RT: 16.57 min Scan# 2463

Delta R.T. -0.01 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

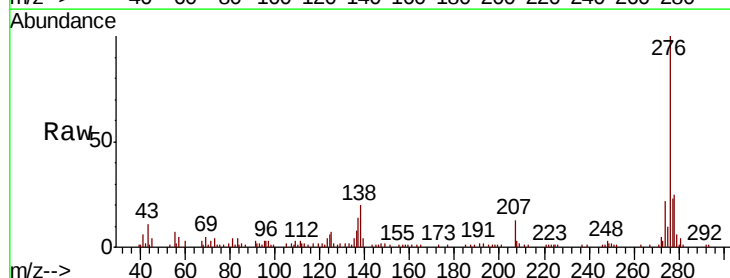
Tgt Ion:276 Resp: 68436

Ion Ratio Lower Upper

276 100

138 19.6 18.5 27.7

277 23.2 20.0 30.0

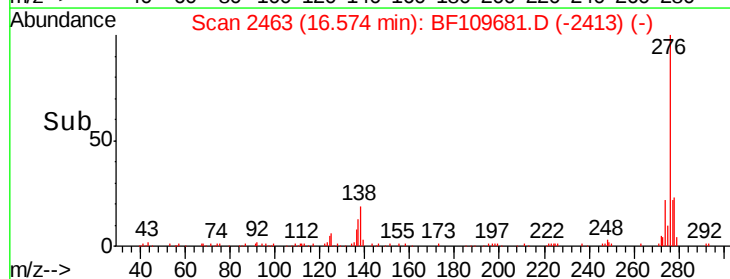
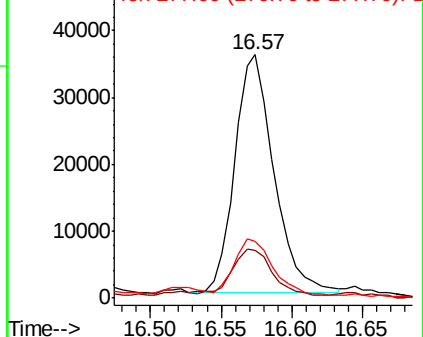


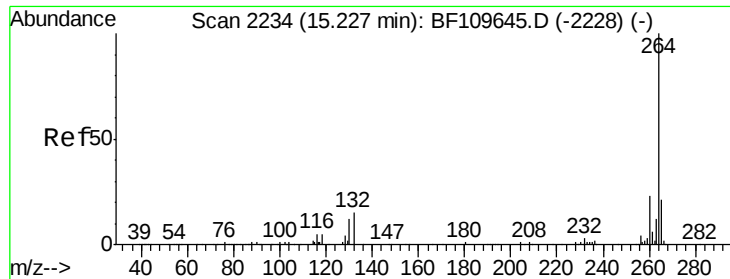
Abundance

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

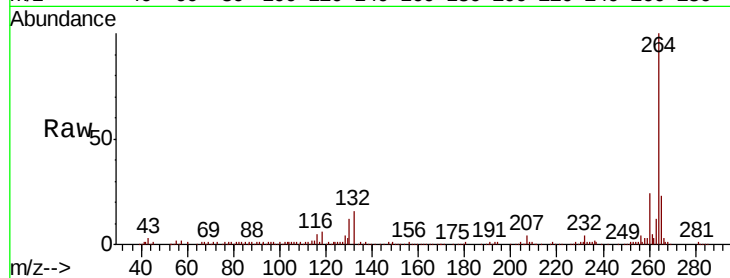




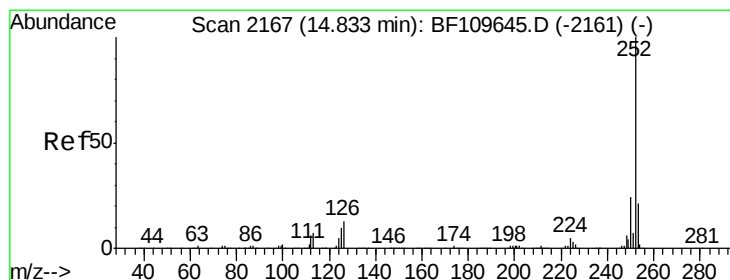
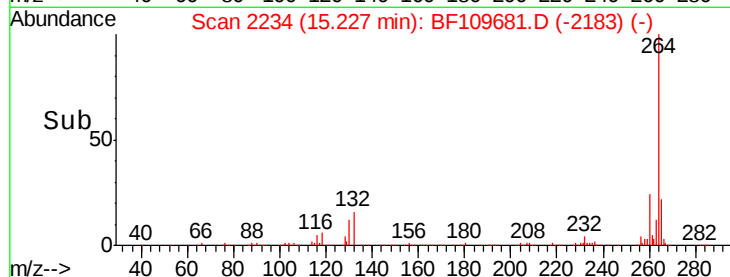
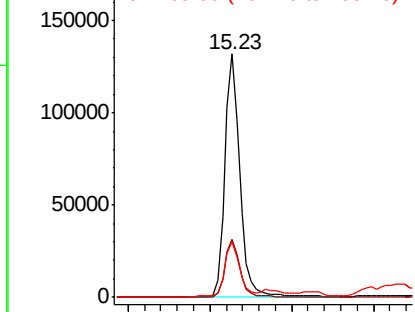
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.23 min Scan# 2234
Delta R.T. -0.00 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Instrument :
BNA_F
ClientSampleId :
S-9

Tgt Ion:264 Resp: 169723
Ion Ratio Lower Upper
264 100
260 24.0 18.7 28.1
265 22.7 16.7 25.1

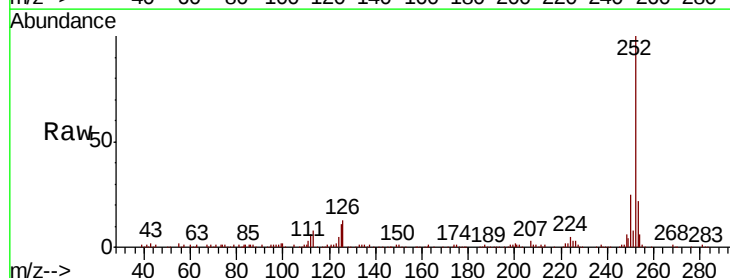


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

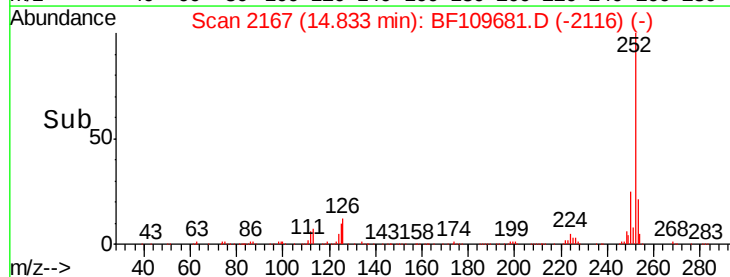
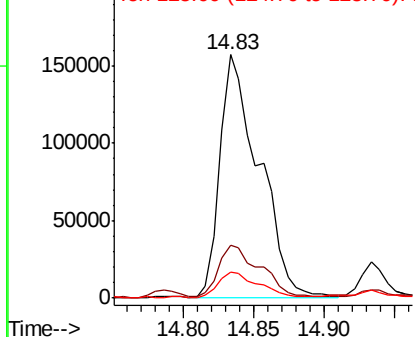


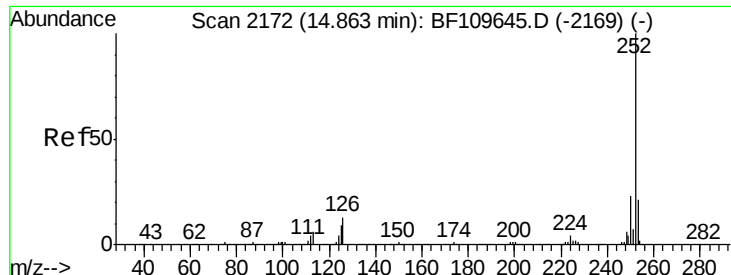
#87
Benzo(b)fluoranthene
Concen: 32.225 ng
RT: 14.83 min Scan# 2167
Delta R.T. -0.00 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Tgt Ion:252 Resp: 302244
Ion Ratio Lower Upper
252 100
253 21.6 17.2 25.8
125 10.9 8.2 12.4



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

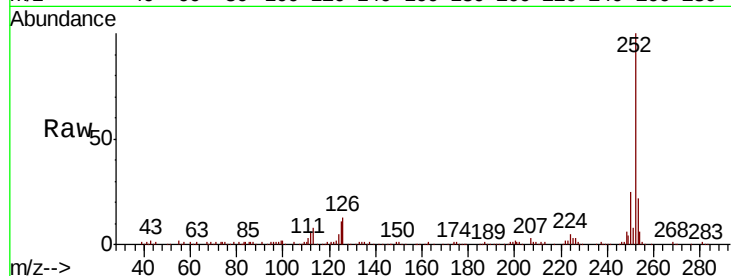




#88
Benzo(k)fluoranthene
Concen: 32.072 ng
RT: 14.83 min Scan# 2167
Delta R.T. -0.03 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Instrument :
BNA_F
ClientSampleId :
S-9

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.2	25.8
125	10.9	7.4	11.0

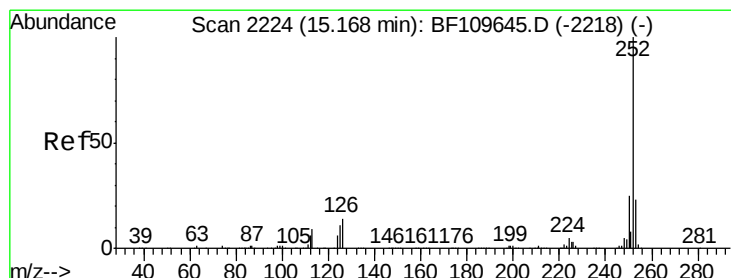
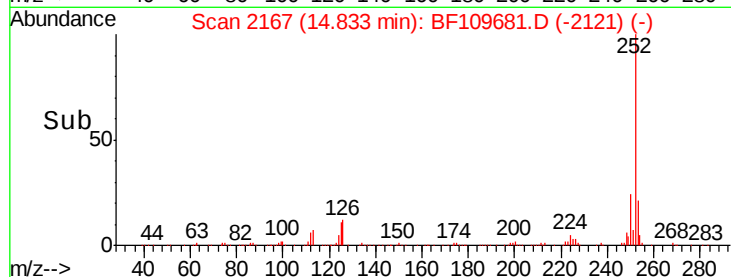
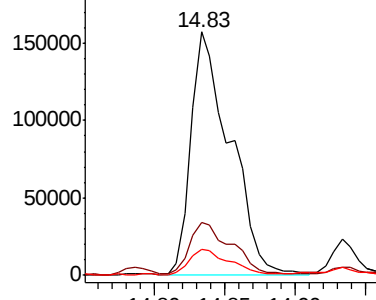


Abundance

Ion 252.00 (251.70 to 252.70): E

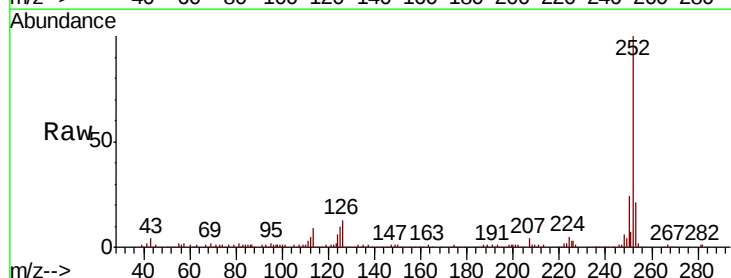
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(a)pyrene
Concen: 17.129 ng
RT: 15.17 min Scan# 2224
Delta R.T. -0.00 min
Lab File: BF109681.D
Acq: 9 Oct 2018 7:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	18.2	27.4
125	10.4	9.0	13.6

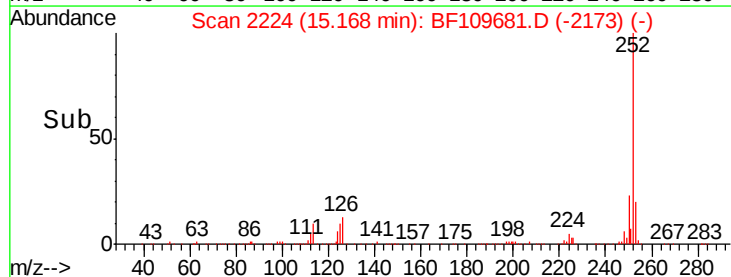
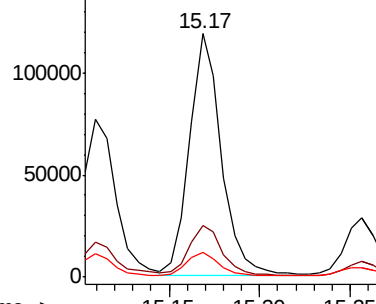


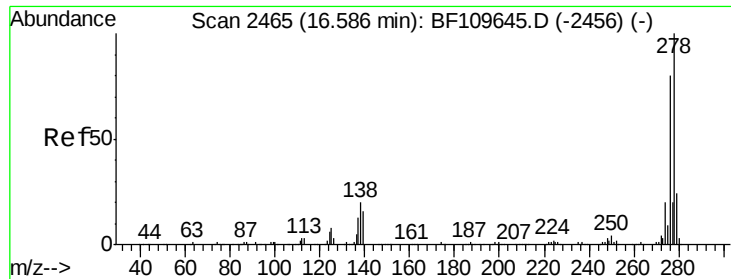
Abundance

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

Dibenzo(a,h)anthracene

Concen: 2.766 ng

RT: 16.57 min Scan# 2463

Delta R.T. -0.01 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

Instrument :

BNA_F

ClientSampleId :

S-9

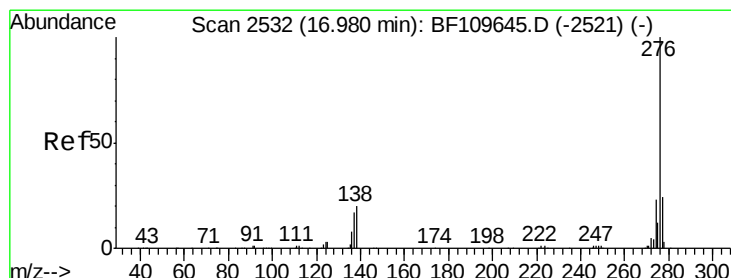
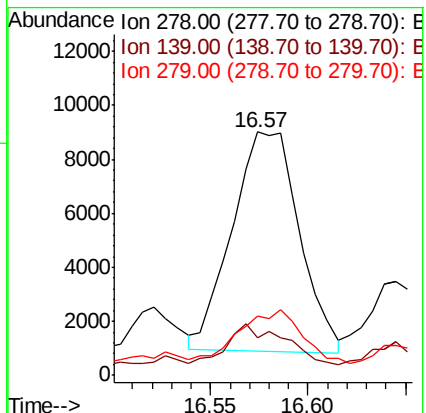
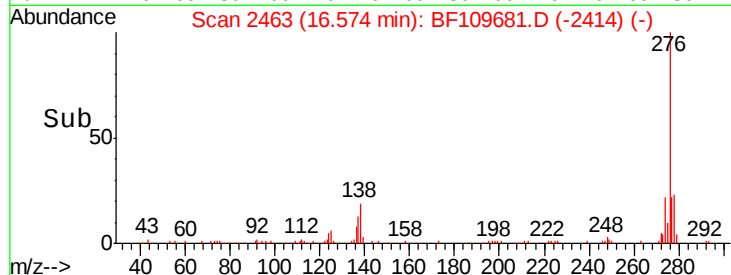
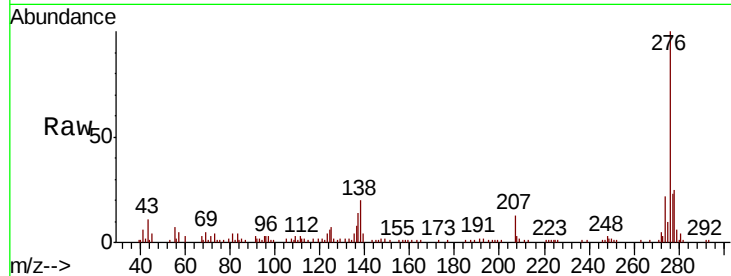
Tgt Ion:278 Resp: 19335

Ion Ratio Lower Upper

278 100

139 15.3 12.7 19.1

279 24.2 19.0 28.4



#91

Benzo(g,h,i)perylene

Concen: 9.150 ng

RT: 16.97 min Scan# 2531

Delta R.T. -0.01 min

Lab File: BF109681.D

Acq: 9 Oct 2018 7:29

Tgt Ion:276 Resp: 63867

Ion Ratio Lower Upper

276 100

277 25.0 18.8 28.2

138 21.3 16.0 24.0

