

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101986.D
 Acq On : 10 Jan 2018 18:36
 Operator : SJ/JU
 Sample : J1076-03 50X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-02

Quant Time: Jan 11 01:54:04 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 09 15:20:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	219458	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	887785	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	387102	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	619734	20.00	ng	0.00
75) Chrysene-d12	13.87	240	344429	20.00	ng	0.00
86) Perylene-d12	15.29	264	361442	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	6672	0.43	ng	0.00
7) Phenol-d6	6.35	99	8187	0.44	ng	0.00
23) Nitrobenzene-d5	7.28	82	4891	0.32	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	1281	0.38	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	9696	0.39	ng	-0.01
78) Terphenyl-d14	12.83	244	8419	0.51	ng	0.00

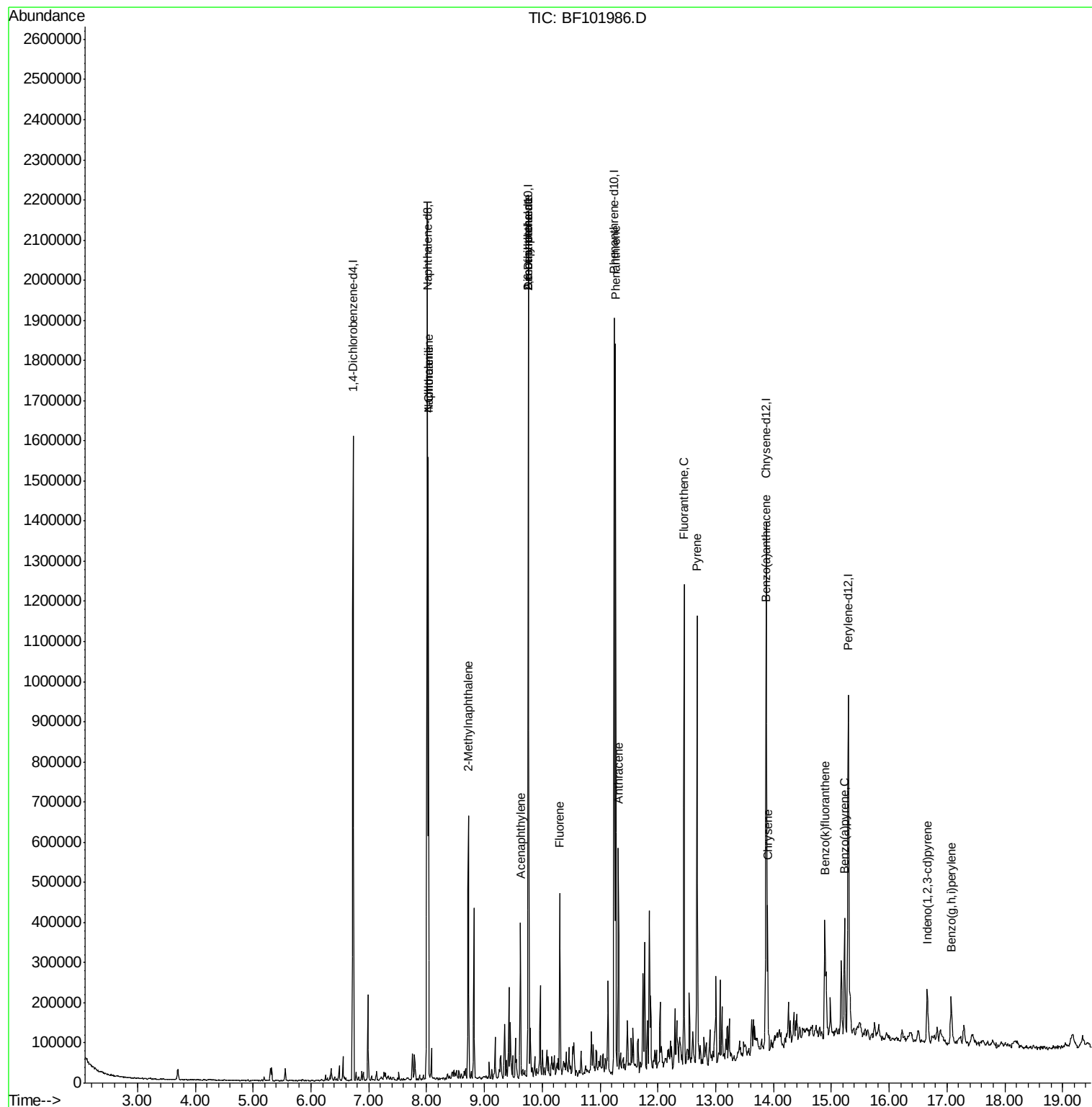
Target Compounds				Qvalue		
31) Naphthalene	8.03	128	687791	15.504	ng	99
33) 4-Chloroaniline	8.03	127	90345	4.772	ng	# 34
37) 2-Methylnaphthalene	8.72	142	157534	5.394	ng	99
48) Acenaphthylene	9.62	152	117359	2.787	ng	97
49) Dimethylphthalate	9.76	163	107675	3.467	ng	# 1
50) 2,6-Dinitrotoluene	9.76	165	53558	8.634	ng	# 26
57) Fluorene	10.30	166	113127	4.666	ng	97
70) Phenanthrene	11.27	178	590225	16.304	ng	99
71) Anthracene	11.32	178	177381	4.831	ng	100
74) Fluoranthene	12.45	202	413836	11.619	ng	98
77) Pyrene	12.68	202	403291	13.246	ng	99
80) Benzo(a)anthracene	13.86	228	145723	6.631	ng	# 85
82) Chrysene	13.90	228	122888	5.363	ng	96
85) Indeno(1,2,3-cd)pyrene	16.66	276	77614	4.654	ng	100
88) Benzo(k)fluoranthene	14.89	252	189930	8.354	ng	97
89) Benzo(a)pyrene	15.23	252	126407	5.961	ng	98
91) Benzo(a,h,i)perylene	17.07	276	78094	4.581	ng	97

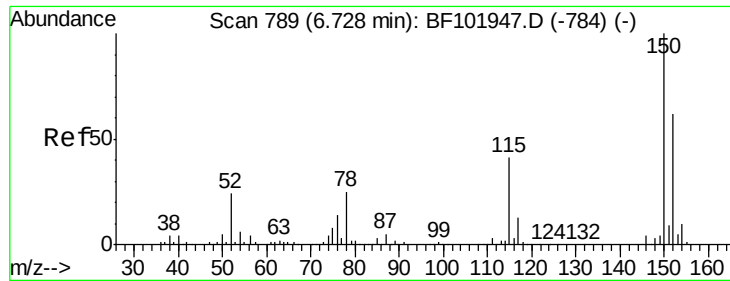
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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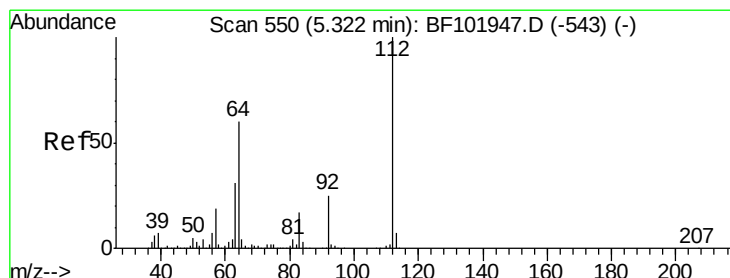
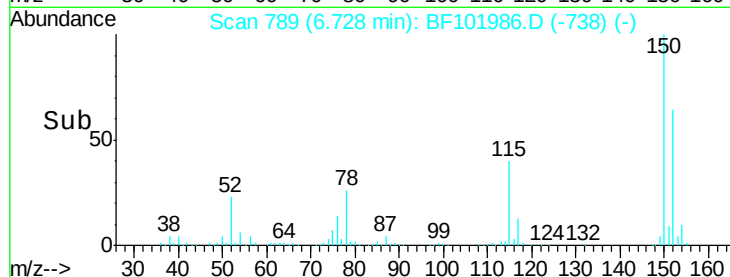
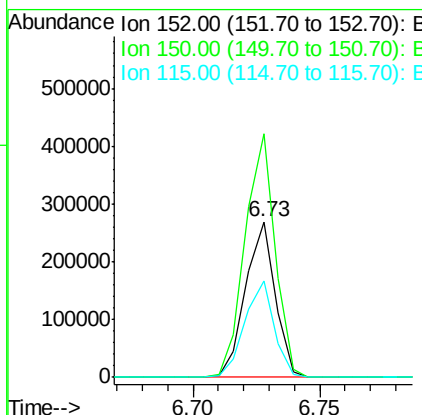
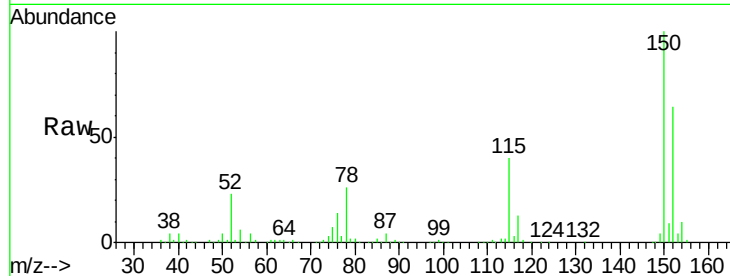


#1

1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 789
 Delta R.T. 0.00 min
 Lab File: BF101986.D
 Acq: 10 Jan 2018 18:36

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-02

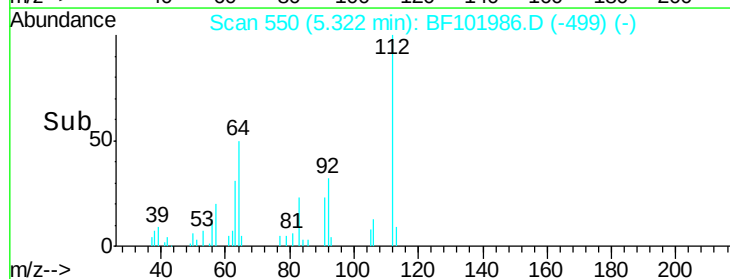
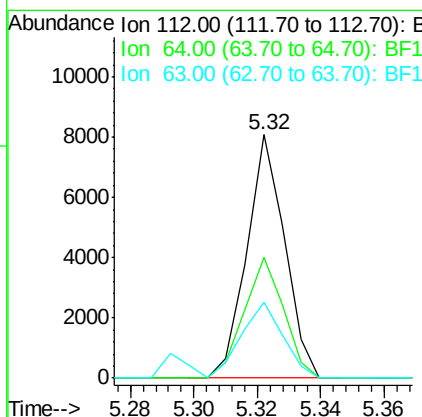
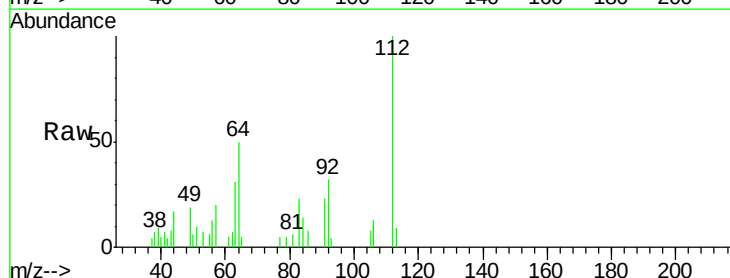
Tot Ion:152 Resp: 219458
 Ion Ratio Lower Upper
 152 100
 150 156.7 124.6 186.8
 115 61.9 50.1 75.1

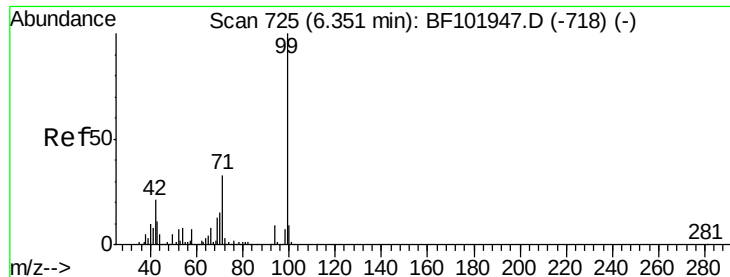


#5

2-Fluorophenol
 Concen: 0.429 ng
 RT: 5.32 min Scan# 550
 Delta R.T. 0.00 min
 Lab File: BF101986.D
 Acq: 10 Jan 2018 18:36

Tgt Ion:112 Resp: 6672
 Ion Ratio Lower Upper
 112 100
 64 49.5 47.9 71.9
 63 31.0 23.7 35.5





#7

Phenol-d6

Concen: 0.442 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

Instrument :

BNA_F

ClientSampleId :

WC-7317-02

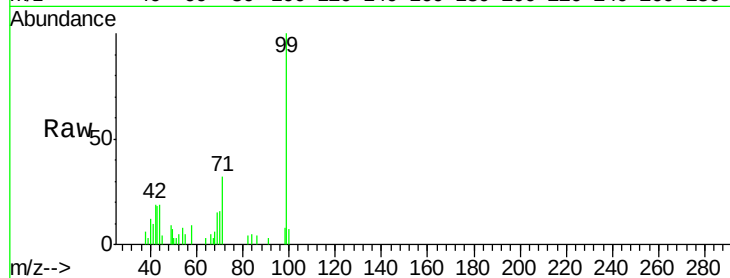
Tot Ion: 99 Resp: 8187

Ion Ratio Lower Upper

99 100

42 18.8 14.5 21.7

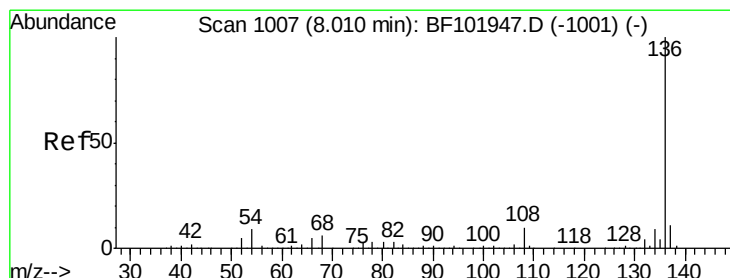
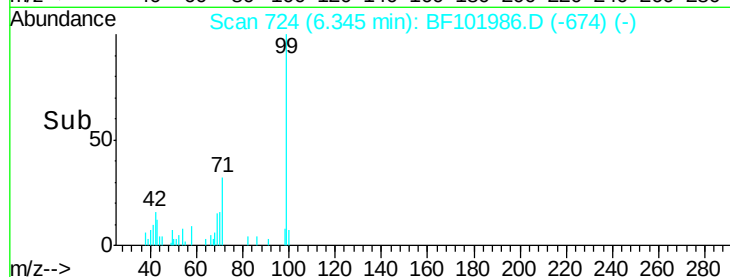
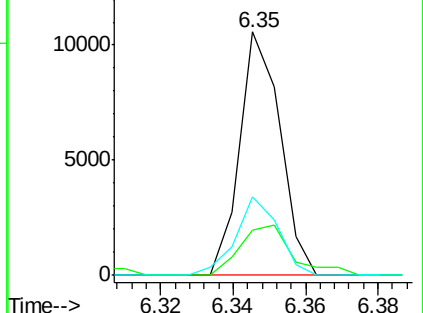
71 32.2 25.4 38.0



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. 0.00 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

Tgt Ion: 136 Resp: 887785

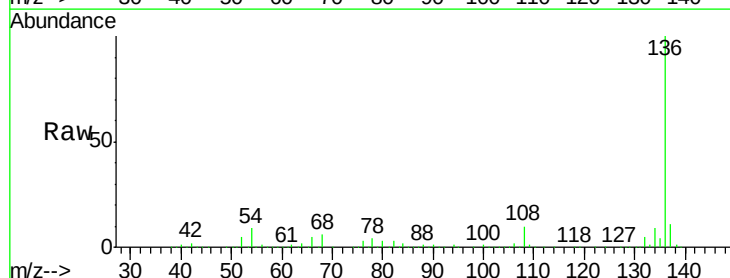
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 8.7 6.6 9.8

68 6.2 5.0 7.4

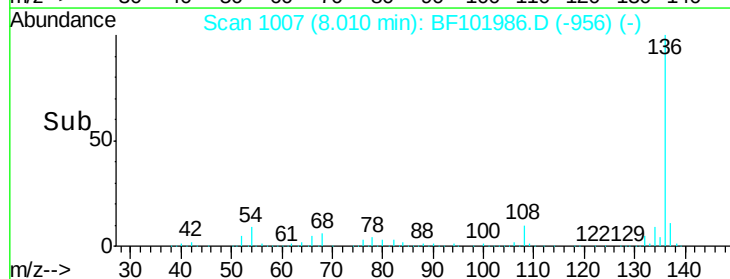
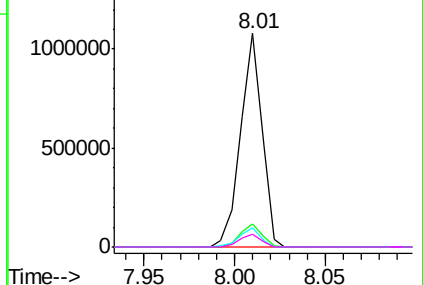


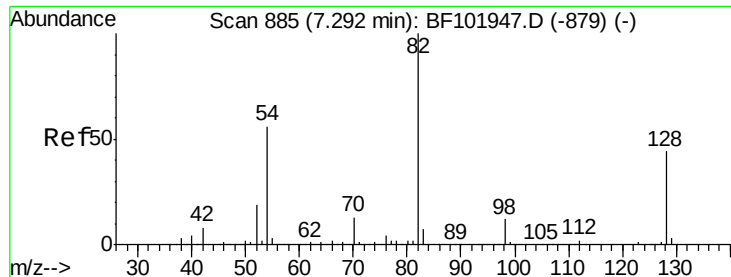
Abundance Ion 136.00 (135.70 to 136.70): E

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

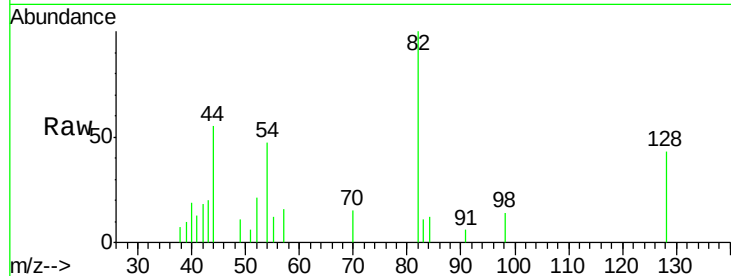




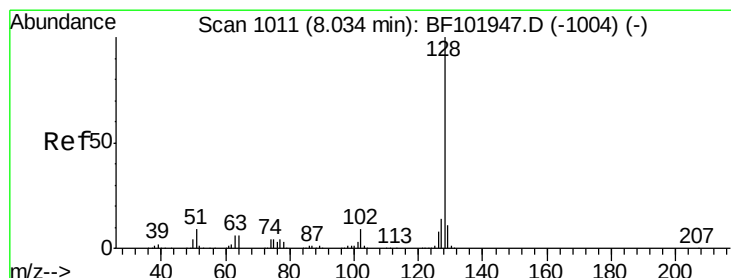
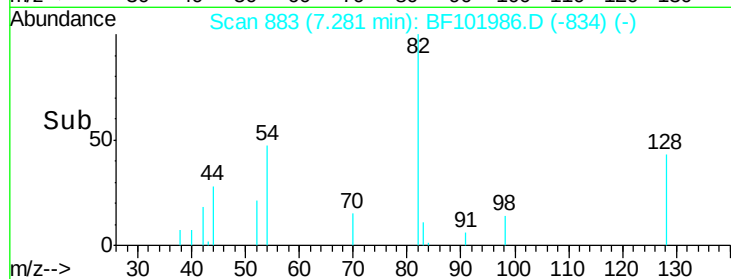
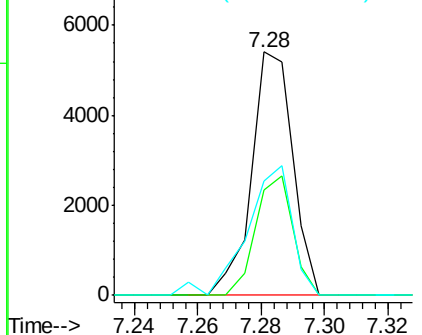
#23
 Nitrobenzene-d5
 Concen: 0.324 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF101986.D
 Acq: 10 Jan 2018 18:36

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-02

Tot Ion: 82 Resp: 4891
 Ion Ratio Lower Upper
 82 100
 128 43.2 36.1 54.1
 54 47.1 41.4 62.2

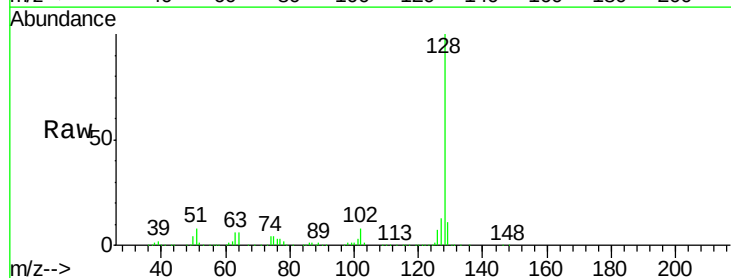


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

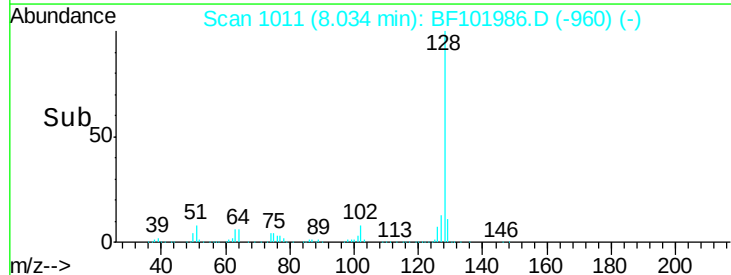
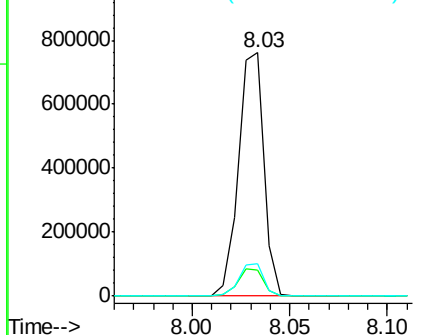


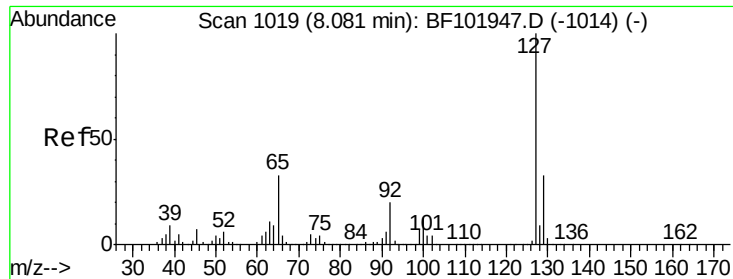
#31
 Naphthalene
 Concen: 15.504 ng
 RT: 8.03 min Scan# 1011
 Delta R.T. 0.00 min
 Lab File: BF101986.D
 Acq: 10 Jan 2018 18:36

Tgt Ion: 128 Resp: 687791
 Ion Ratio Lower Upper
 128 100
 129 10.9 8.8 13.2
 127 13.3 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): BF1
 Ion 129.00 (128.70 to 129.70): BF1
 Ion 127.00 (126.70 to 127.70): BF1

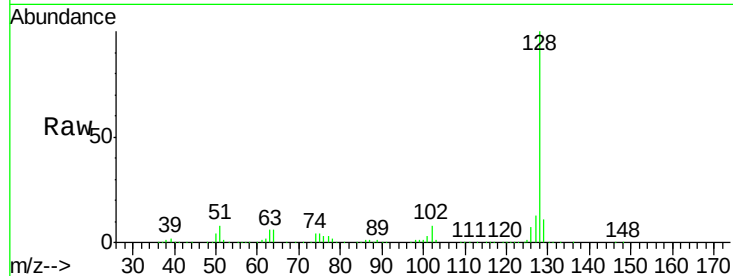




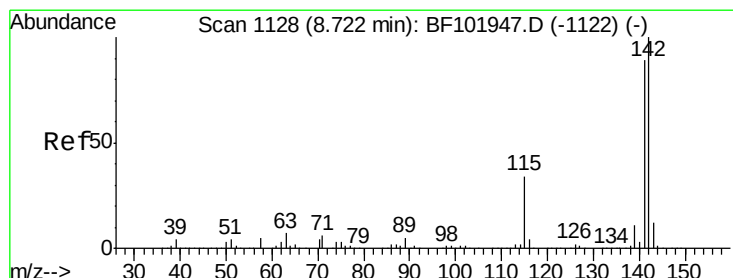
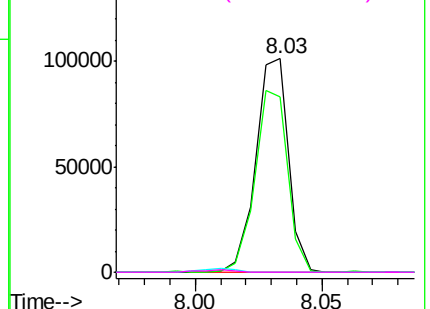
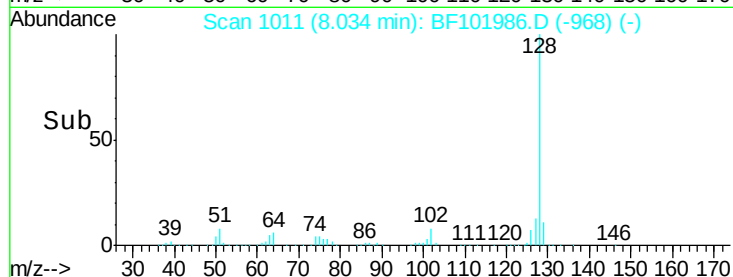
#33
4-Chloroaniline
Concen: 4.772 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.05 min
Lab File: BF101986.D
Acq: 10 Jan 2018 18:36

Instrument :
BNA_F
ClientSampleId :
WC-7317-02

Tot Ion:	127	Resp:	90345
Ion	Ratio	Lower	Upper
127	100		
129	81.8	25.9	38.9#
65	0.0	25.0	37.4#
92	0.0	15.2	22.8#

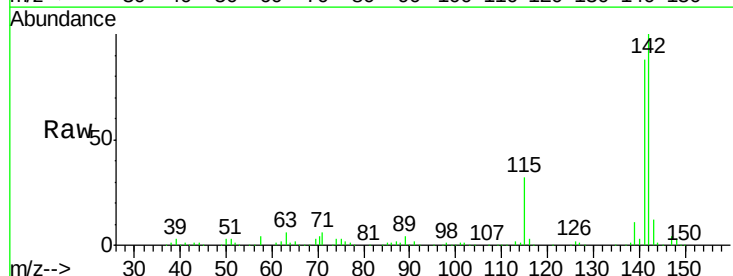


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF1
Ion 92.00 (91.70 to 92.70): BF1

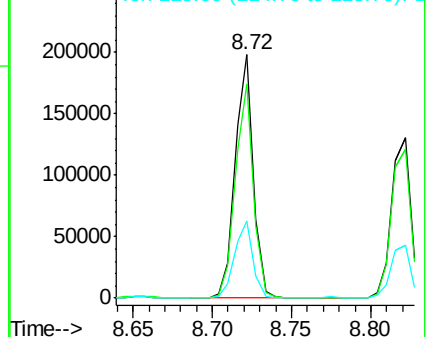
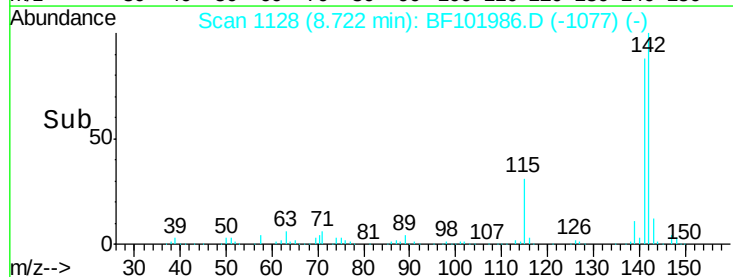


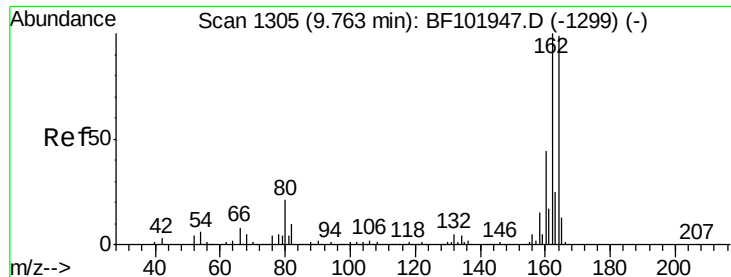
#37
2-Methylnaphthalene
Concen: 5.394 ng
RT: 8.72 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF101986.D
Acq: 10 Jan 2018 18:36

Tgt Ion:	142	Resp:	157534
Ion	Ratio	Lower	Upper
142	100		
141	88.2	70.8	106.2
115	31.5	26.1	39.1



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

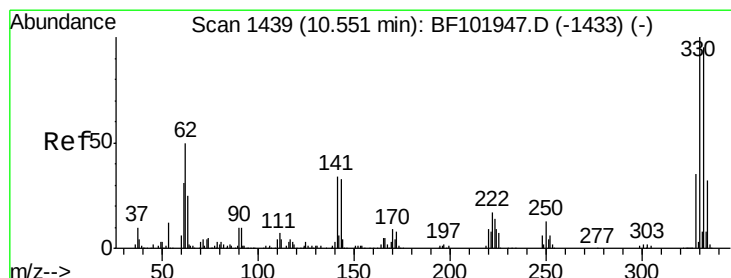
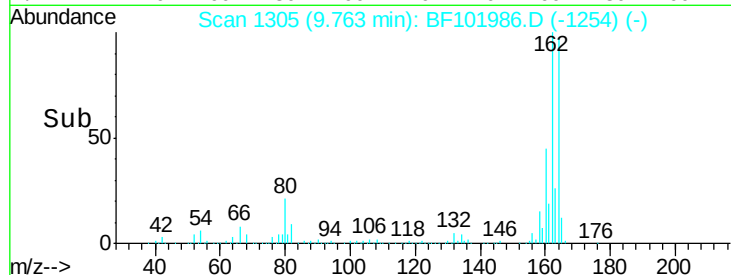
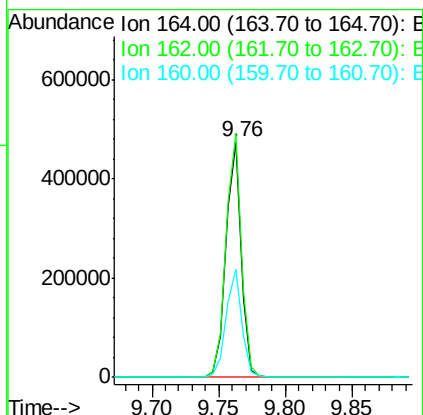
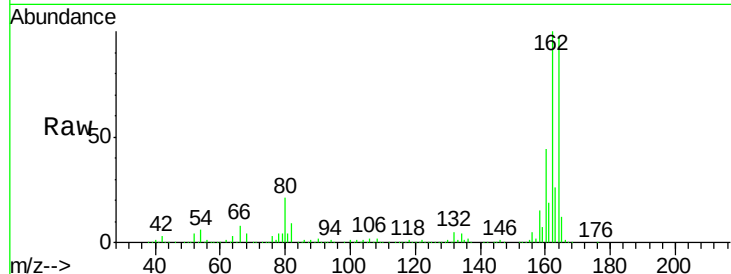




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: BF101986.D
 Acq: 10 Jan 2018 18:36

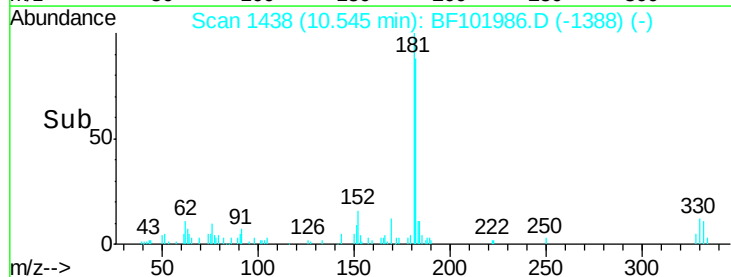
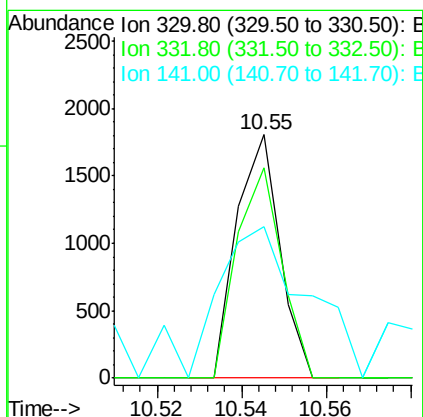
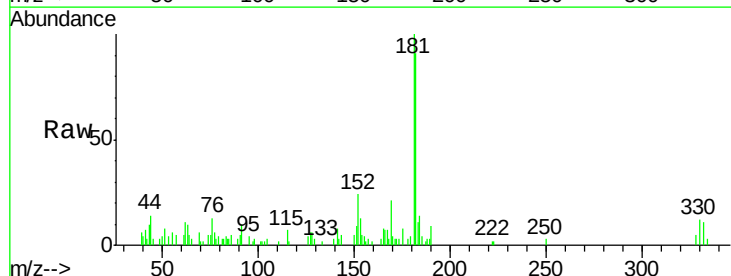
Instrument :
 BNA_F
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 WC-7317-02

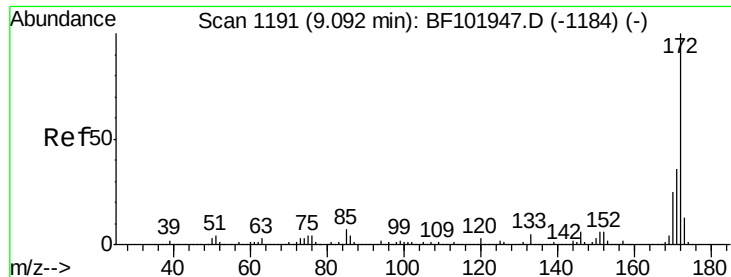
Tot Ion	Ratio	Lower	Upper
164	100		
162	103.5	86.1	129.1
160	45.9	38.3	57.5



#41
 2,4,6-Tribromophenol
 Concen: 0.379 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF101986.D
 Acq: 10 Jan 2018 18:36

Tgt Ion	Ratio	Lower	Upper
330	100		
332	89.9	77.0	115.6
141	135.0	29.9	44.9#

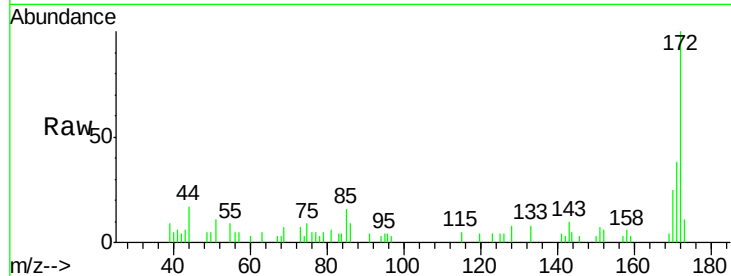




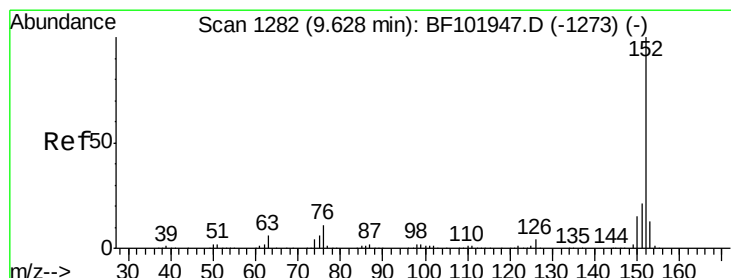
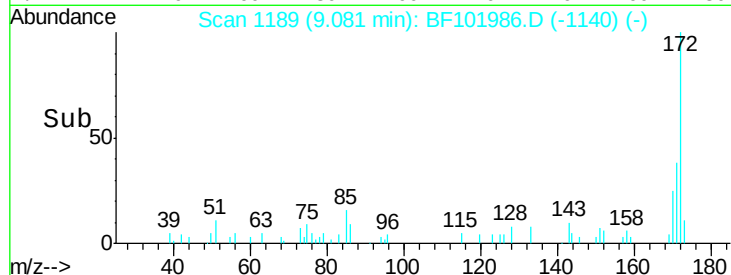
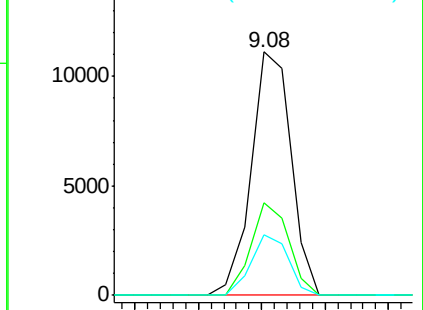
#44
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF101986.D
Acq: 10 Jan 2018 18:36

Instrument :
BNA_F
ClientSampled :
WC-7317-02

Tot Ion:172 Resp: 9696
Ion Ratio Lower Upper
172 100
171 38.3 29.7 44.5
170 25.0 19.6 29.4

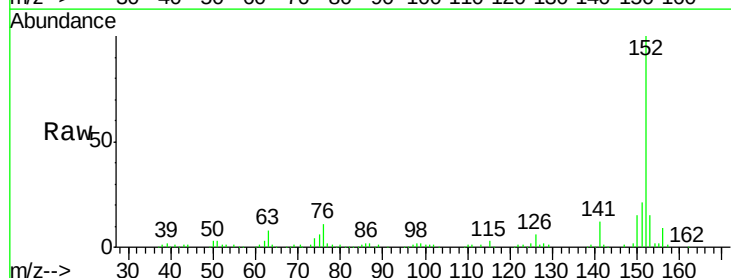


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

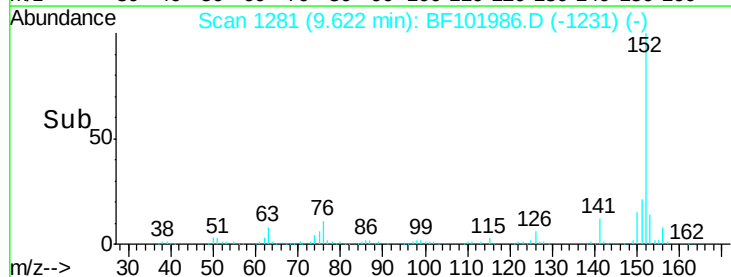
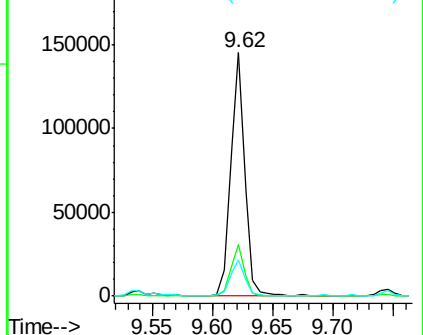


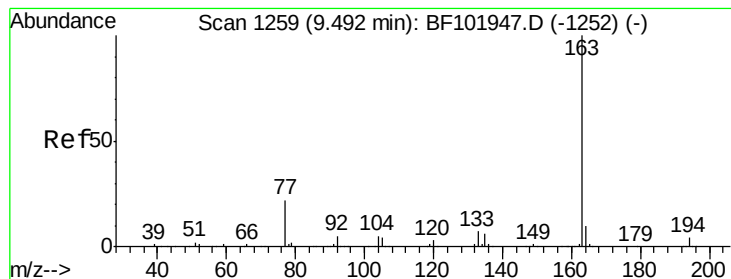
#48
Acenaphthylene
Concen: 2.787 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF101986.D
Acq: 10 Jan 2018 18:36

Tgt Ion:152 Resp: 117359
Ion Ratio Lower Upper
152 100
151 21.4 16.3 24.5
153 14.7 10.7 16.1



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





#49

Dimethylphthalate

Concen: 3.467 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.27 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

Instrument :

BNA_F

ClientSampleId :

WC-7317-02

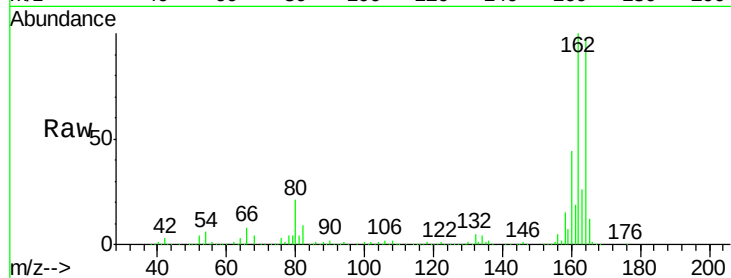
Tot Ion:163 Resp: 107675

Ion Ratio Lower Upper

163 100

194 0.0 2.7 4.1#

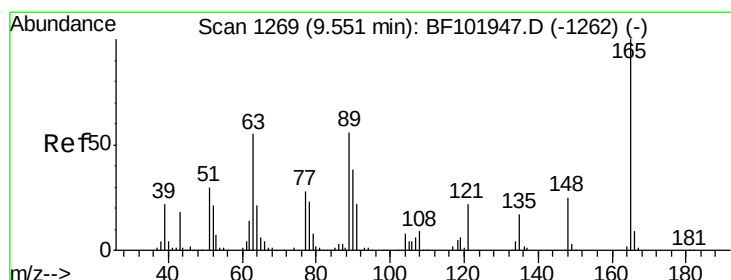
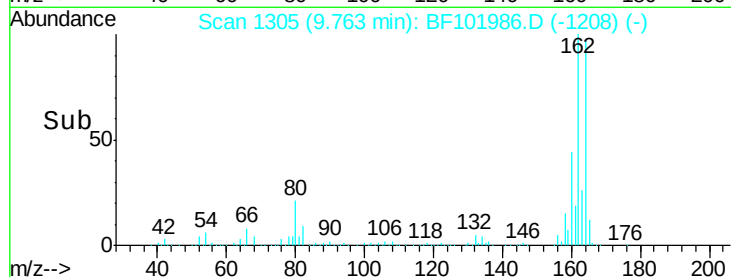
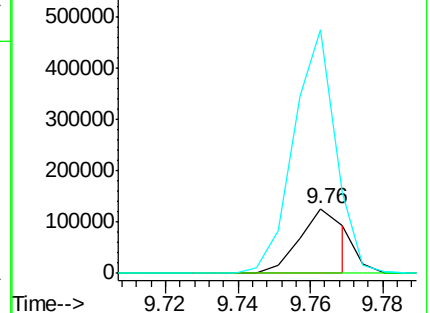
164 374.2 8.2 12.2#



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



#50

2,6-Dinitrotoluene

Concen: 8.634 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.21 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

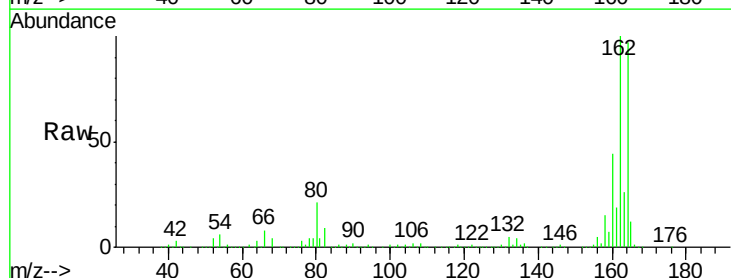
Tgt Ion:165 Resp: 53558

Ion Ratio Lower Upper

165 100

63 1.6 44.7 67.1#

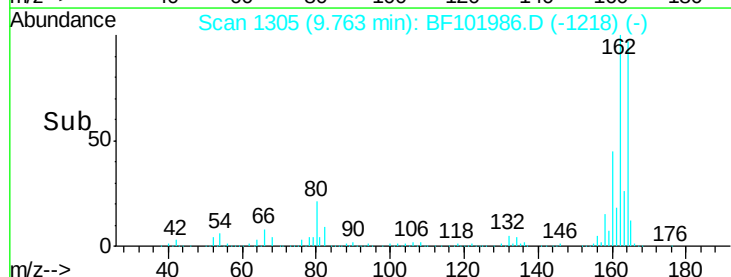
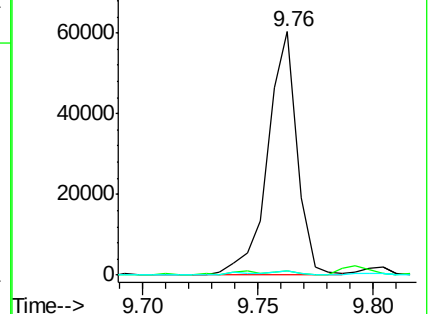
89 1.8 44.0 66.0#

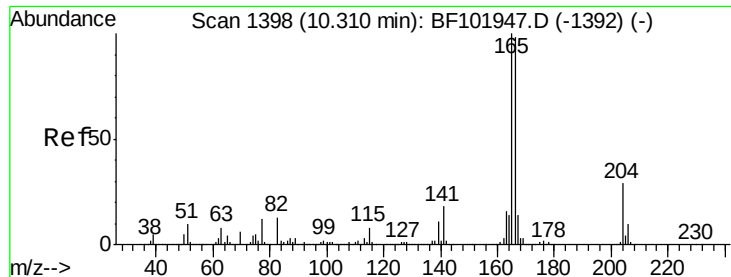


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

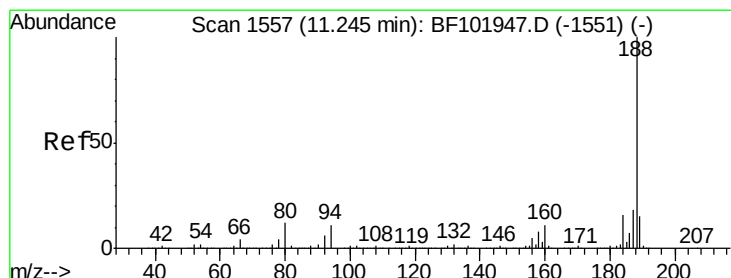
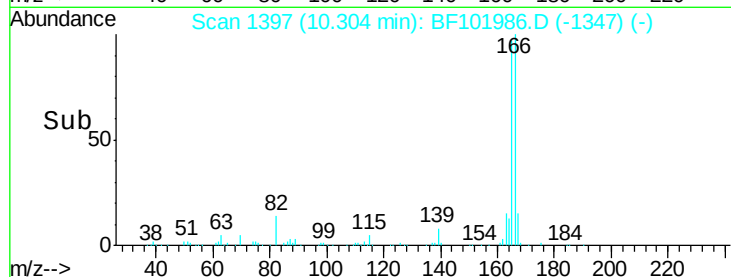
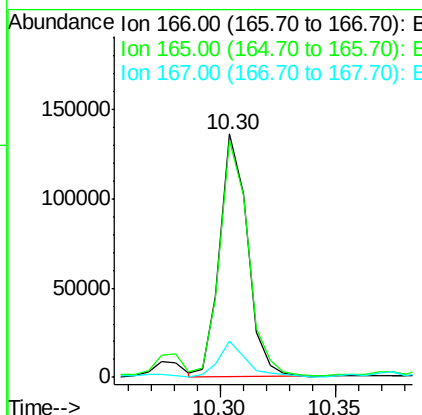
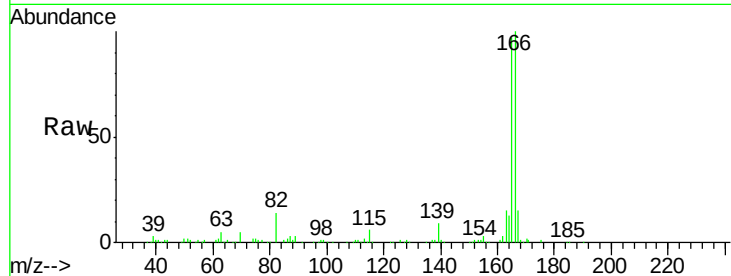




#57
Fluorene
 Concen: 4.666 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF101986.D
 Acq: 10 Jan 2018 18:36

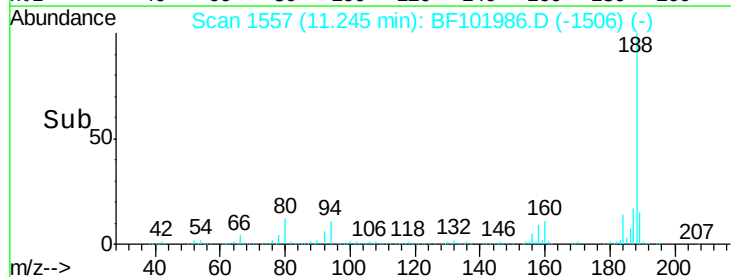
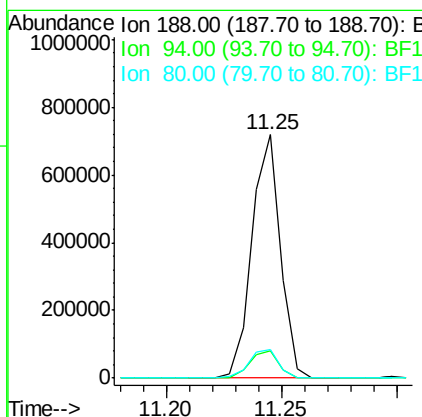
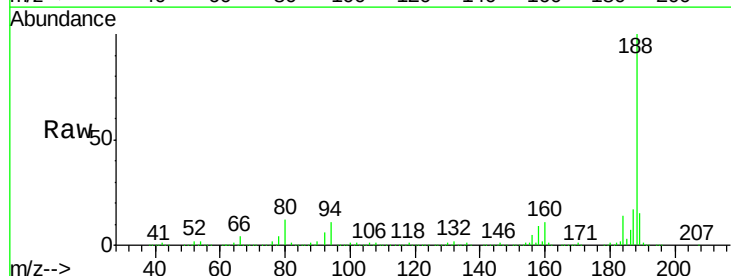
Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-02

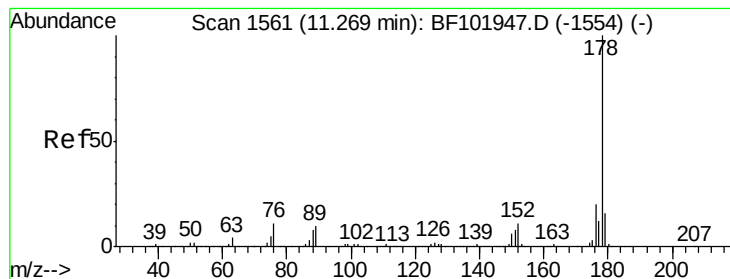
Tot Ion:166 Resp: 113127
 Ion Ratio Lower Upper
 166 100
 165 97.4 79.8 119.8
 167 14.9 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: BF101986.D
 Acq: 10 Jan 2018 18:36

Tgt Ion:188 Resp: 619734
 Ion Ratio Lower Upper
 188 100
 94 11.1 8.5 12.7
 80 11.9 9.2 13.8





#70

Phenanthrene

Concen: 16.304 ng

RT: 11.27 min Scan# 1561

Delta R.T. 0.00 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

Instrument :

BNA_F

ClientSampleId :

WC-7317-02

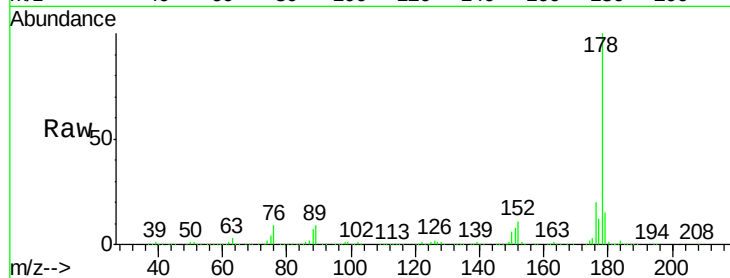
Tot Ion:178 Resp: 590225

Ion Ratio Lower Upper

178 100

176 19.8 15.8 23.8

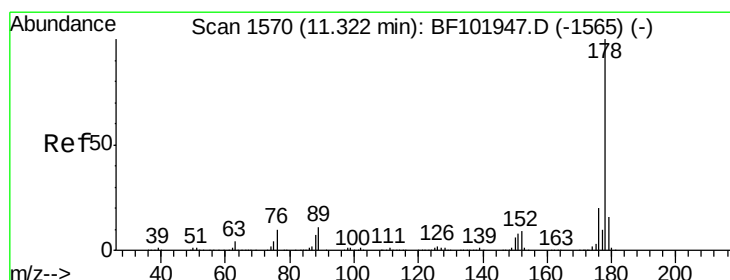
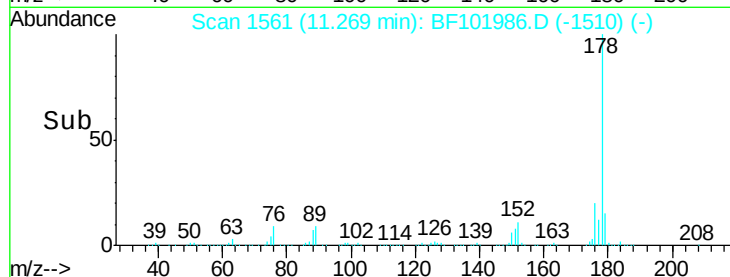
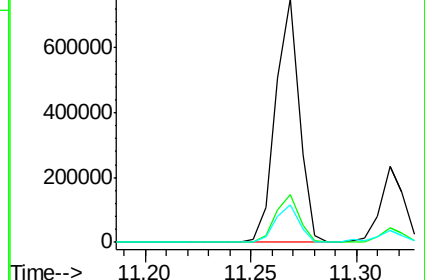
179 15.3 13.0 19.6



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: 4.831 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

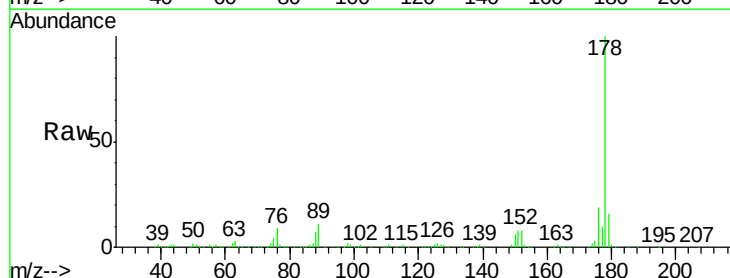
Tgt Ion:178 Resp: 177381

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

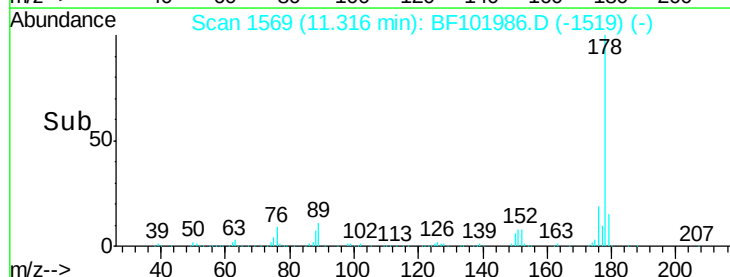
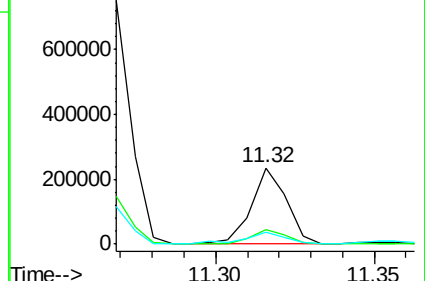
179 15.8 12.6 19.0

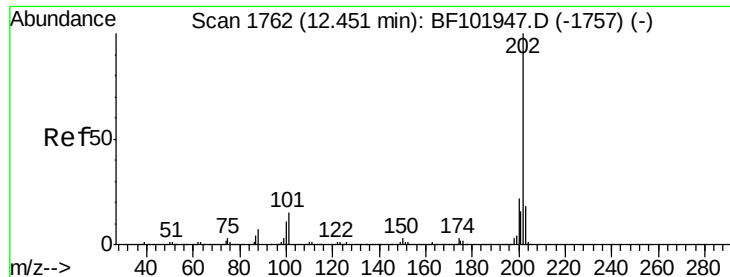


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 11.619 ng

RT: 12.45 min Scan# 1762

Delta R.T. 0.00 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

Instrument :

BNA_F

ClientSampleId :

WC-7317-02

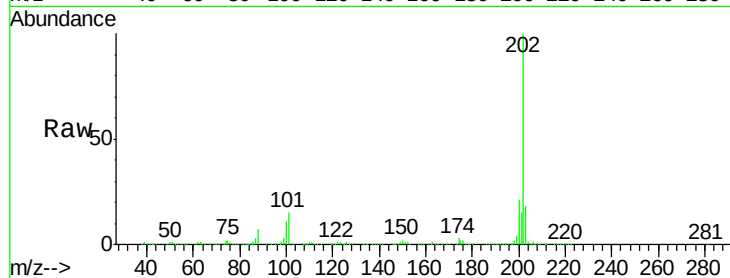
Tot Ion:202 Resp: 413836

Ion Ratio Lower Upper

202 100

101 15.4 0.0 34.1

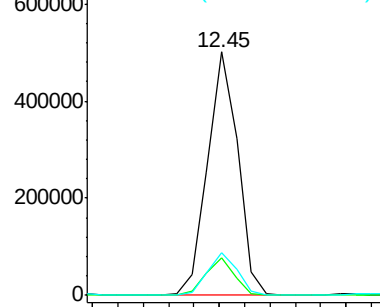
203 17.5 0.0 38.1



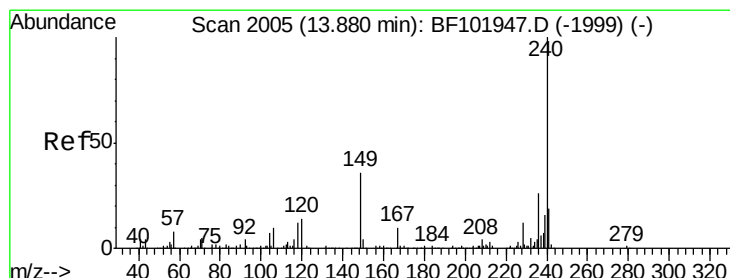
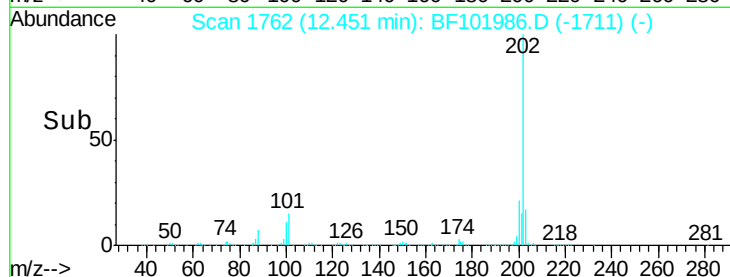
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 12.40 12.45 12.50



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

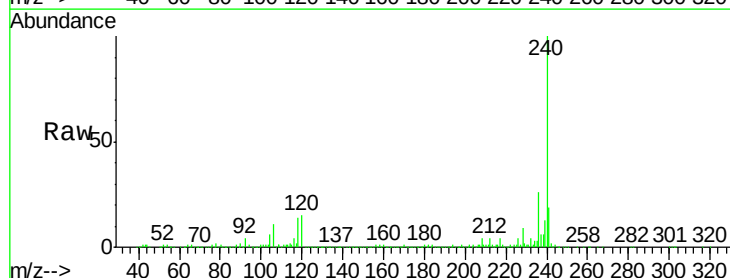
Tgt Ion:240 Resp: 344429

Ion Ratio Lower Upper

240 100

120 14.6 9.5 14.3#

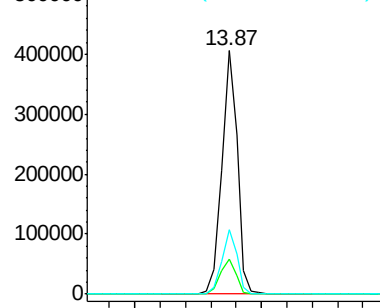
236 26.4 20.7 31.1



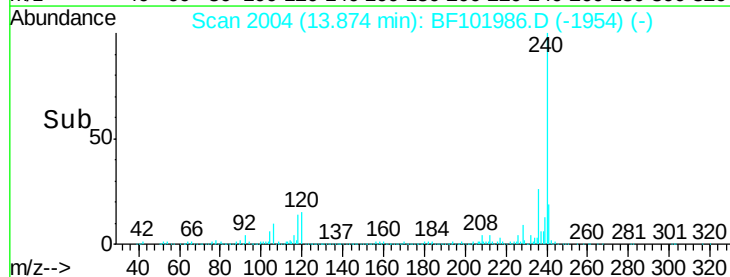
Abundance Ion 240.00 (239.70 to 240.70): E

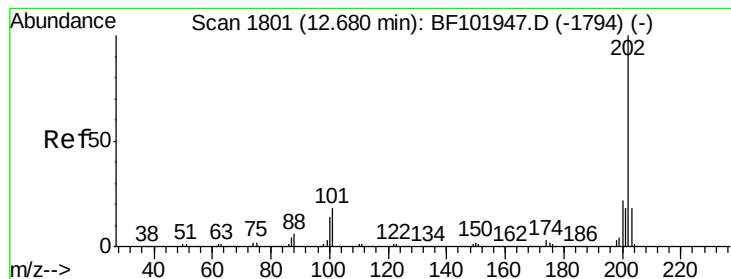
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time--> 13.80 13.90





#77

Pvrene

Concen: 13.246 ng

RT: 12.68 min Scan# 1801

Delta R.T. 0.00 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

Instrument :

BNA_F

ClientSampleId :

WC-7317-02

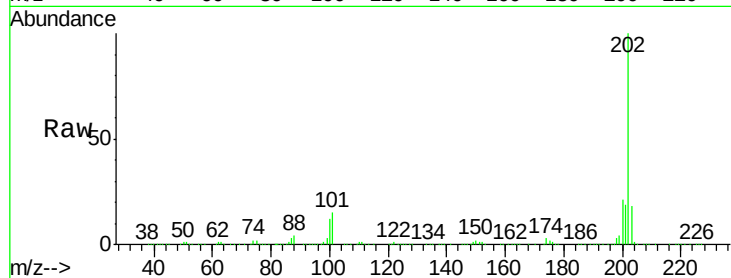
Tot Ion:202 Resp: 403291

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

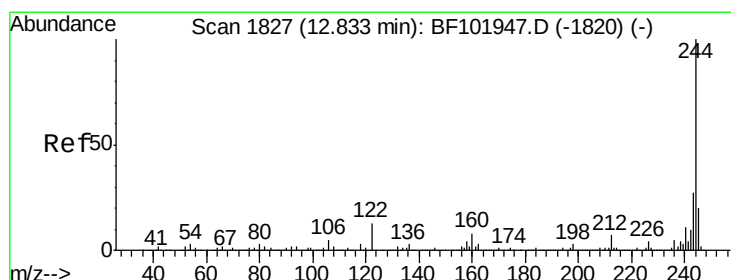
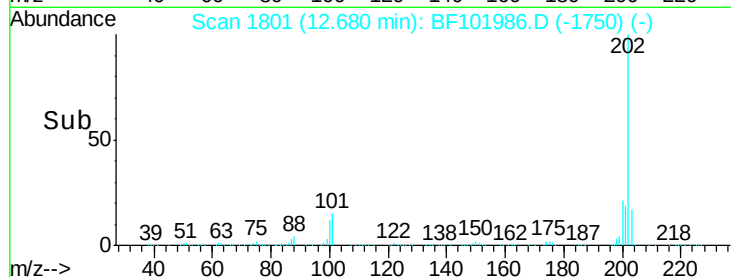
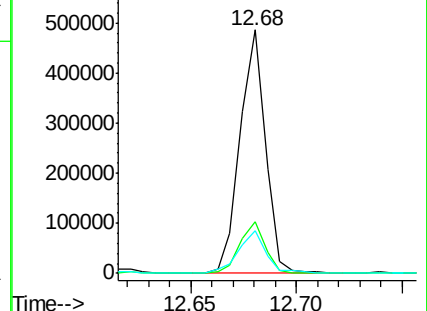
203 17.7 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 0.508 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

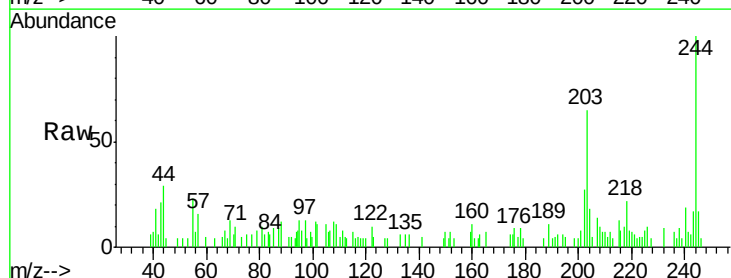
Tgt Ion:244 Resp: 8419

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

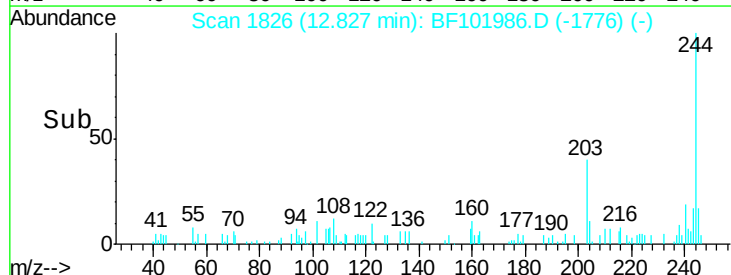
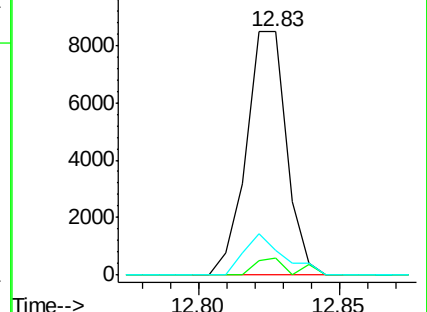
122 10.4 11.0 16.4#

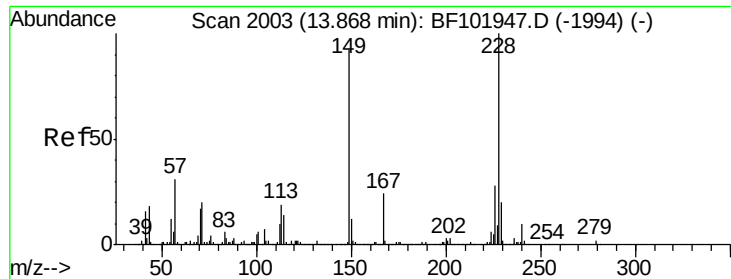


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

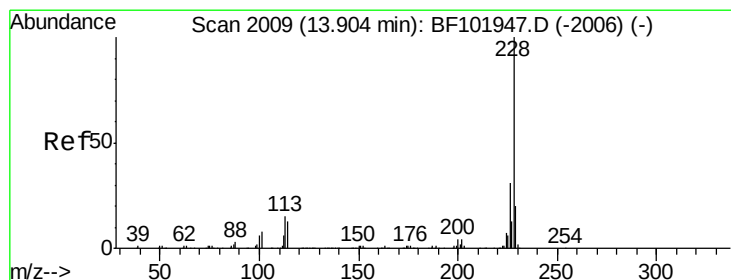
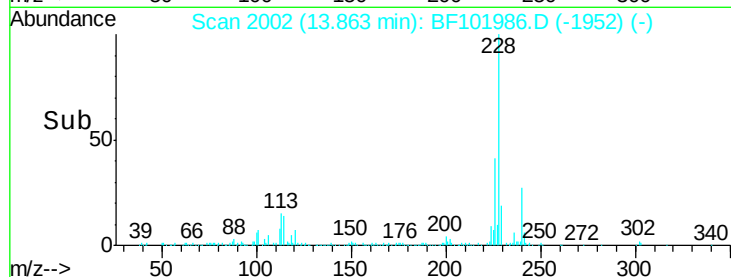
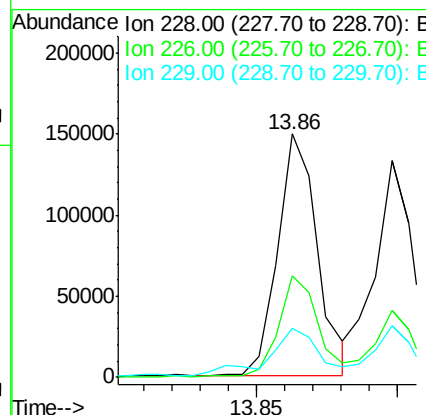
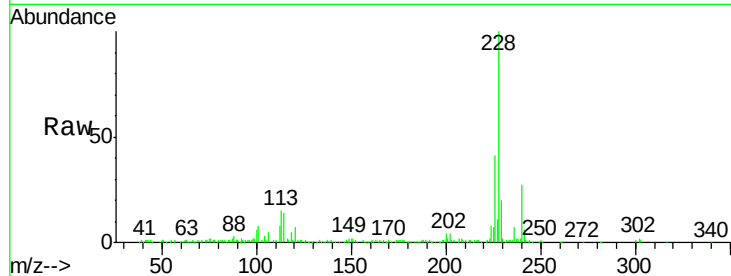




#80
Benzo(a)anthracene
Concen: 6.631 ng
RT: 13.86 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BF101986.D
Acq: 10 Jan 2018 18:36

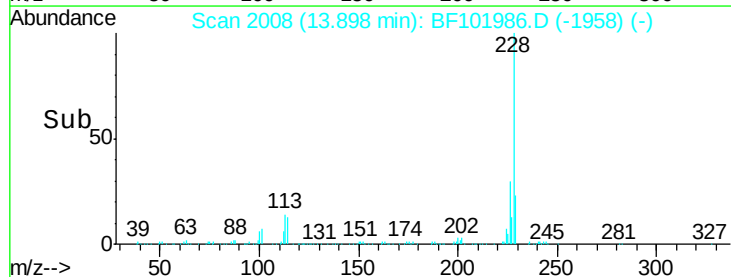
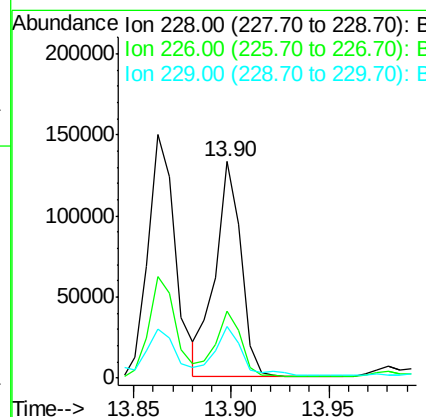
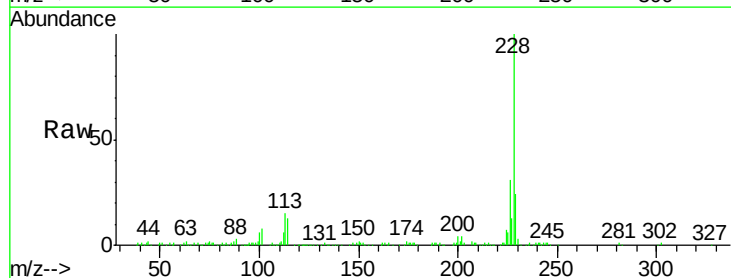
Instrument :
BNA_F
ClientSampleId :
WC-7317-02

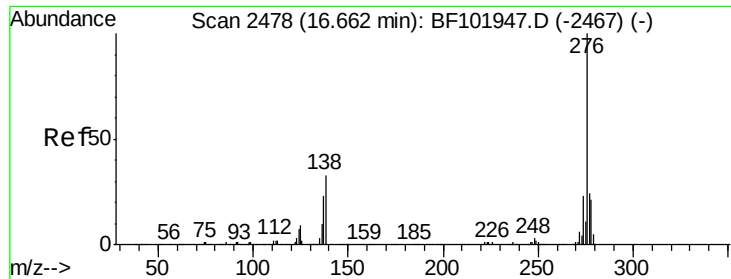
Tot Ion:228 Resp: 145723
Ion Ratio Lower Upper
228 100
226 41.4 22.6 33.8#
229 20.0 15.8 23.6



#82
Chrysene
Concen: 5.363 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF101986.D
Acq: 10 Jan 2018 18:36

Tgt Ion:228 Resp: 122888
Ion Ratio Lower Upper
228 100
226 30.8 25.0 37.6
229 23.8 16.2 24.4

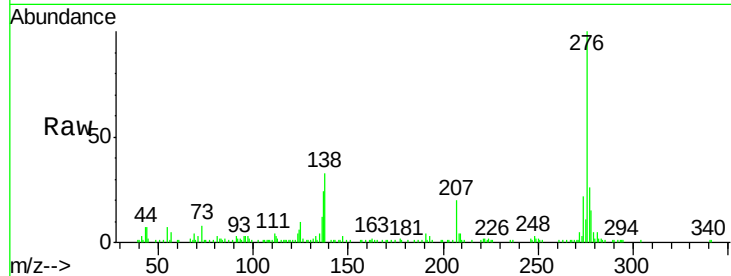




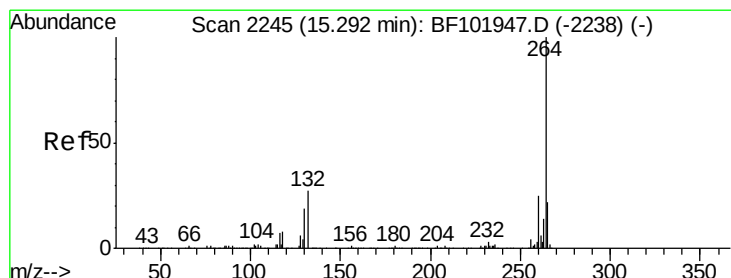
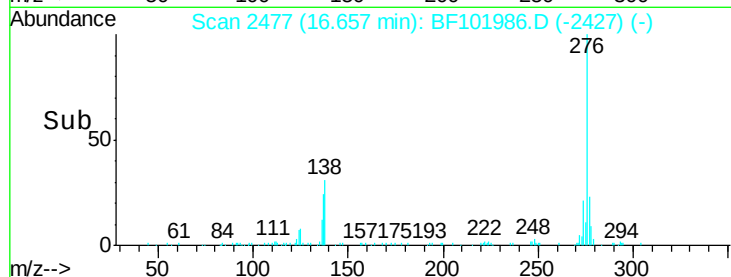
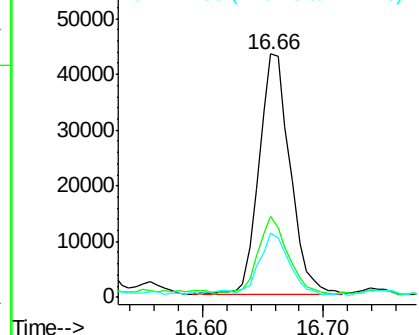
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.654 ng
 RT: 16.66 min Scan# 2477
 Delta R.T. -0.01 min
 Lab File: BF101986.D
 Acq: 10 Jan 2018 18:36

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.4	25.0	37.6
277	25.4	20.1	30.1

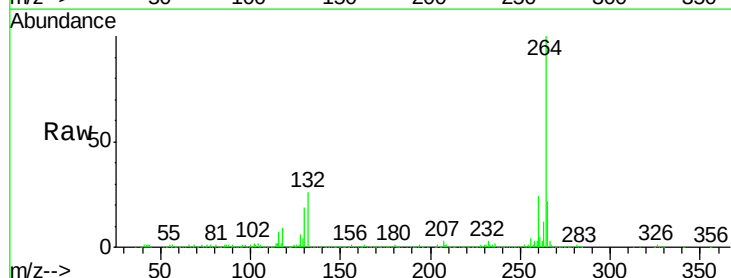


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

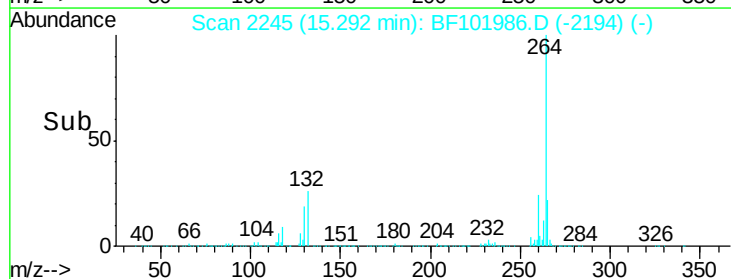
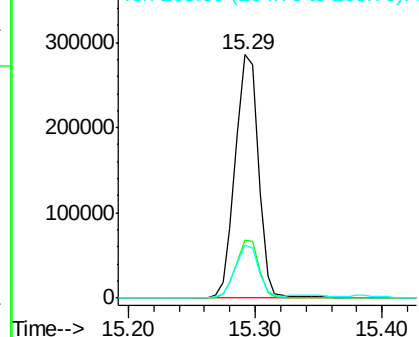


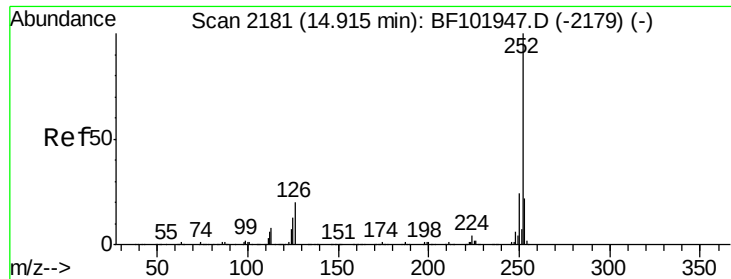
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.29 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: BF101986.D
 Acq: 10 Jan 2018 18:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.0	17.5	26.3



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

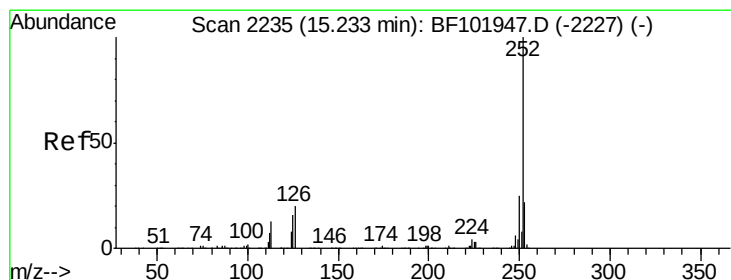
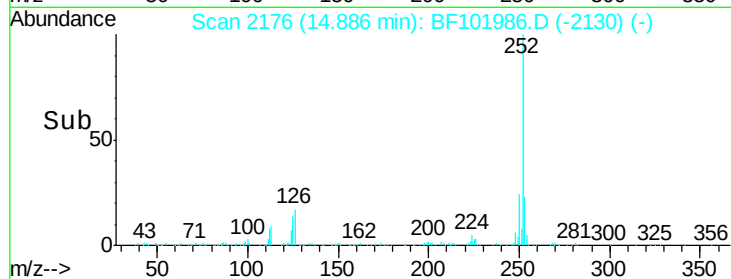
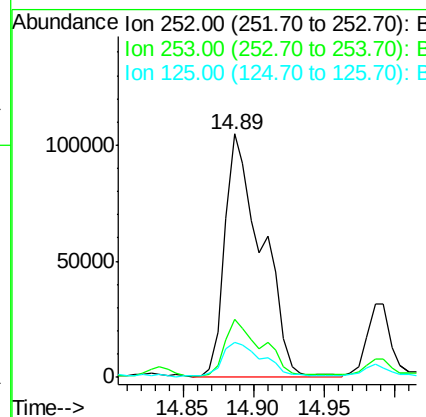
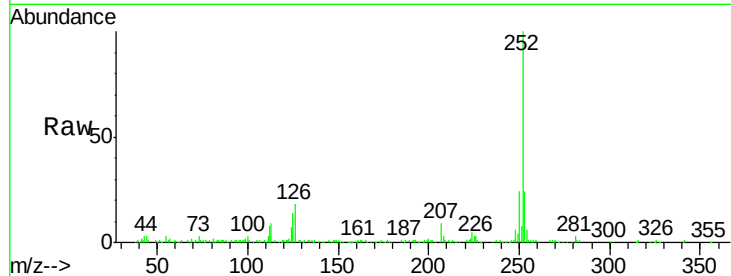




#88
Benzo(k)fluoranthene
Concen: 8.354 ng
RT: 14.89 min Scan# 2176
Delta R.T. -0.03 min
Lab File: BF101986.D
Acq: 10 Jan 2018 18:36

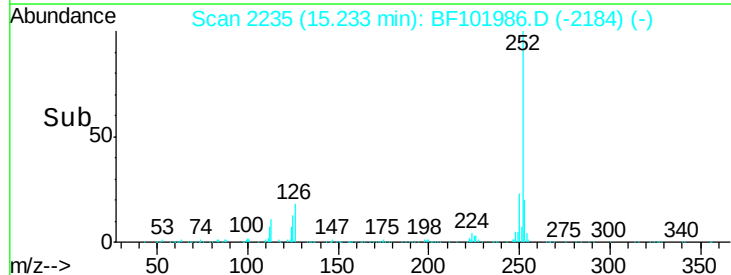
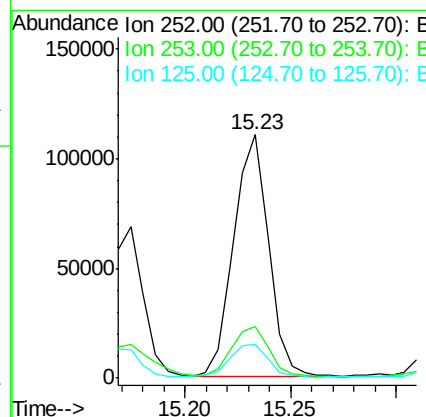
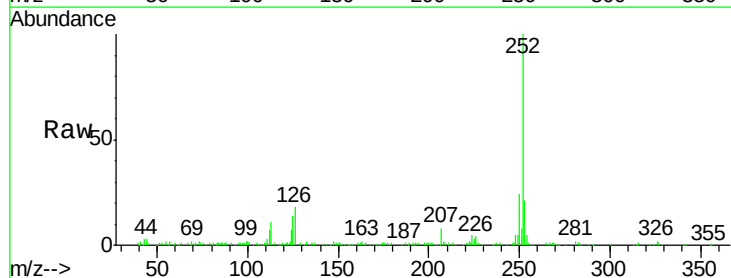
Instrument :
BNA_F
ClientSampleId :
WC-7317-02

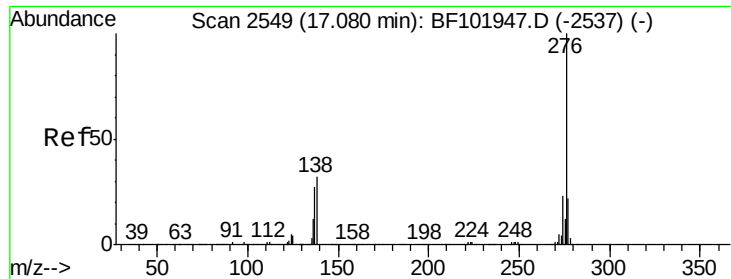
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	14.2	10.2	15.2



#89
Benzo(a)pyrene
Concen: 5.961 ng
RT: 15.23 min Scan# 2235
Delta R.T. 0.00 min
Lab File: BF101986.D
Acq: 10 Jan 2018 18:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.1	25.7
125	13.8	9.8	14.6





#91

Benzo(a,h,i)perylene

Concen: 4.581 ng

RT: 17.07 min Scan# 2548

Delta R.T. -0.01 min

Lab File: BF101986.D

Acq: 10 Jan 2018 18:36

Instrument :

BNA_F

ClientSampleId :

WC-7317-02

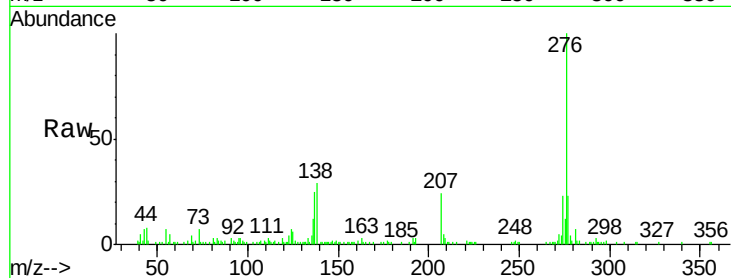
Tot Ion: 276 Resp: 78094

Ion Ratio Lower Upper

276 100

277 23.1 17.9 26.9

138 29.3 21.8 32.8



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

