

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF011918\
 Data File : BF102224.D
 Acq On : 19 Jan 2018 16:27
 Operator : SJ/JU
 Sample : J1200-08 20X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB103_W-N_5

Quant Time: Jan 19 16:56:42 2018
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 19 13:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	130585	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	530522	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	234475	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	366668	20.00	ng	0.00
75) Chrysene-d12	13.87	240	257291	20.00	ng	0.00
86) Perylene-d12	15.29	264	231188	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	50488	5.46	ng	-0.01
7) Phenol-d6	6.35	99	57542	5.22	ng	-0.02
23) Nitrobenzene-d5	7.28	82	34709	3.84	ng	-0.02
41) 2,4,6-Tribromophenol	10.54	330	9565	4.67	ng	-0.01
44) 2-Fluorobiphenyl	9.07	172	60776	4.05	ng	-0.01
78) Terphenyl-d14	12.82	244	44999	3.63	ng	-0.01

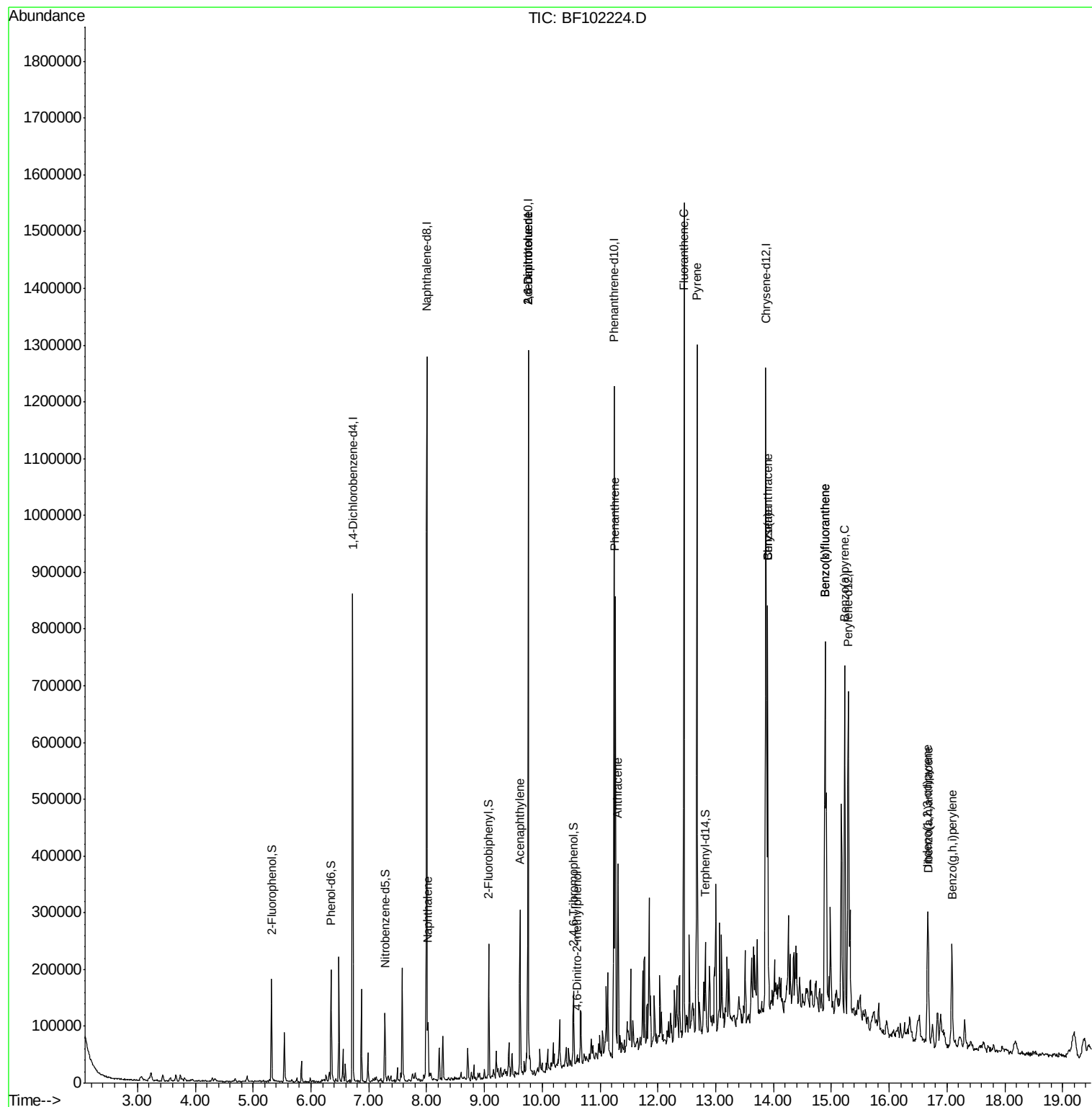
Target Compounds				Qvalue		
31) Naphthalene	8.02	128	56606	2.135	ng	98
48) Acenaphthylene	9.62	152	112020	4.392	ng	99
50) 2,6-Dinitrotoluene	9.76	165	29833	7.940	ng	# 26
56) 2,4-Dinitrotoluene	9.76	165	29833	6.335	ng	# 24
64) 4,6-Dinitro-2-methylphenol	10.61	198	378	5.830	ng	# 1
70) Phenanthrene	11.26	178	278040	12.981	ng	98
71) Anthracene	11.31	178	127658	5.877	ng	97
74) Fluoranthene	12.45	202	562462	26.691	ng	98
77) Pyrene	12.68	202	491841	21.626	ng	99
80) Benzo(a)anthracene	13.90	228	243545	14.836	ng	95
82) Chrysene	13.90	228	243545	14.228	ng	99
85) Indeno(1,2,3-cd)pyrene	16.67	276	137998	11.077	ng	97
87) Benzo(b)fluoranthene	14.89	252	461169	30.593	ng	# 96
88) Benzo(k)fluoranthene	14.89	252	461169	31.714	ng	98
89) Benzo(a)pyrene	15.23	252	243927	17.982	ng	98
90) Dibenzo(a,h)anthracene	16.68	278	36899	3.409	ng	98
91) Benzo(g,h,i)perylene	17.09	276	121726	11.163	ng	98

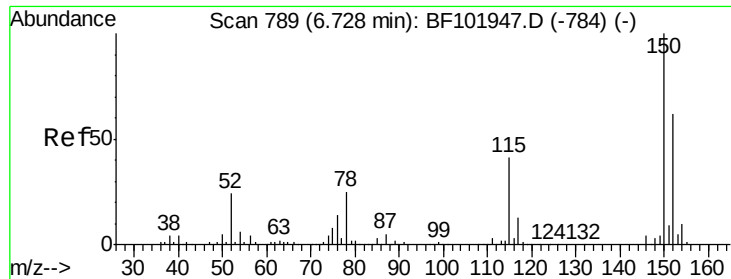
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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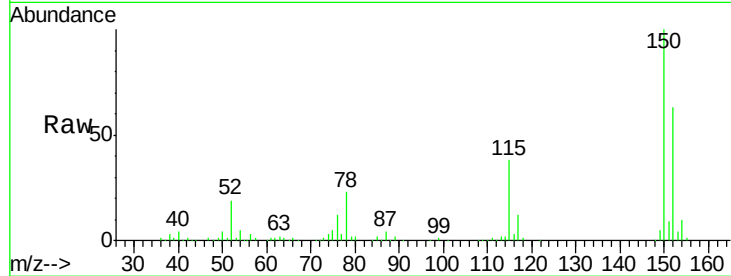


#1

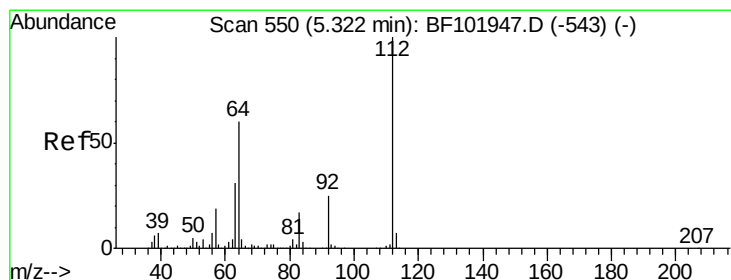
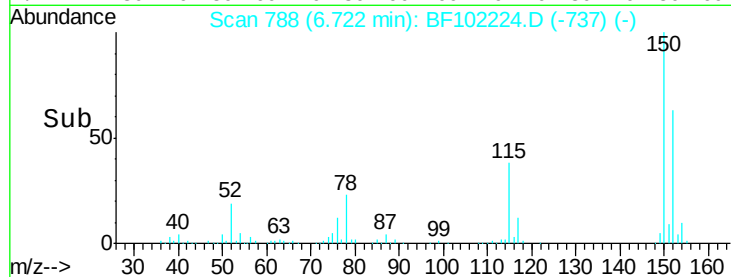
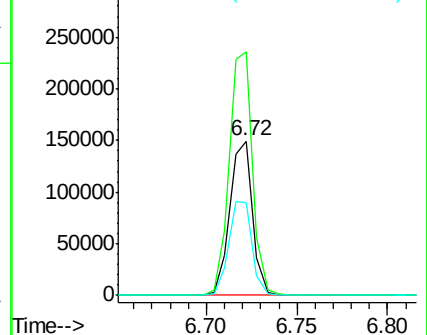
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF102224.D
Acq: 19 Jan 2018 16:27

Instrument :
BNA_F
ClientSampleId :
A2_SB103_W-N_5

Tgt Ion:152 Resp: 130585
Ion Ratio Lower Upper
152 100
150 157.6 124.6 186.8
115 59.9 50.1 75.1



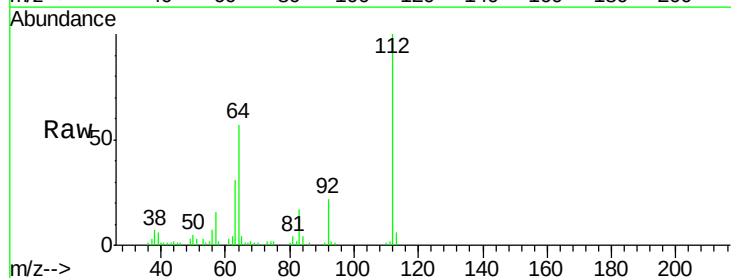
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



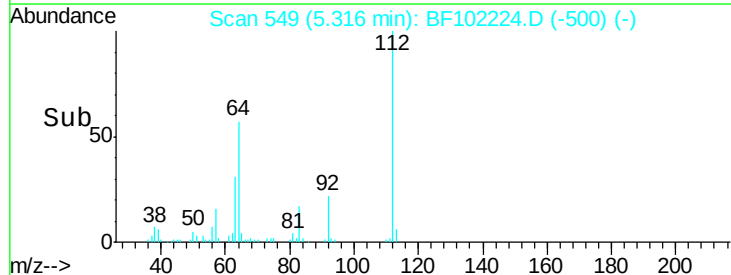
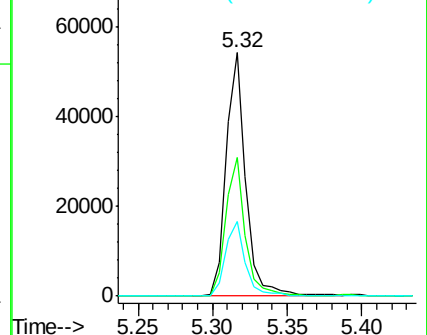
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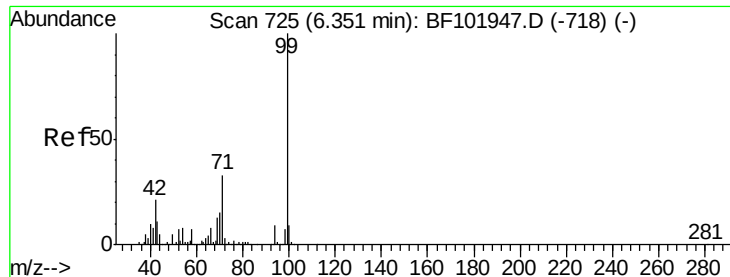
2-Fluorophenol
Concen: 5.460 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102224.D
Acq: 19 Jan 2018 16:27

Tgt Ion:112 Resp: 50488
Ion Ratio Lower Upper
112 100
64 56.9 47.9 71.9
63 30.5 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: 5.215 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

Instrument :

BNA_F

ClientSampleId :

A2_SB103_W-N_5

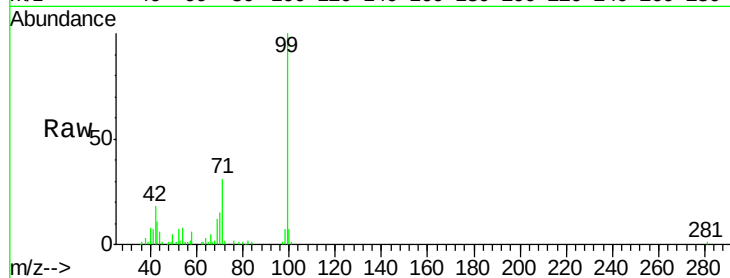
Tgt Ion: 99 Resp: 57542

Ion Ratio Lower Upper

99 100

42 18.1 14.5 21.7

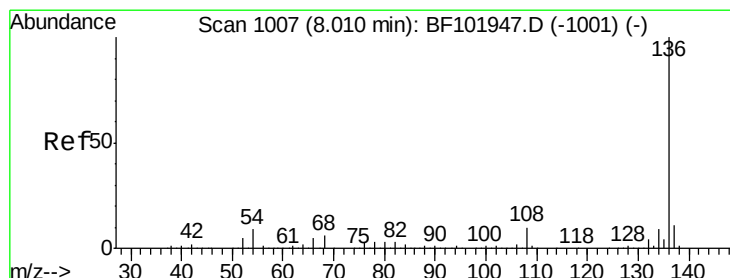
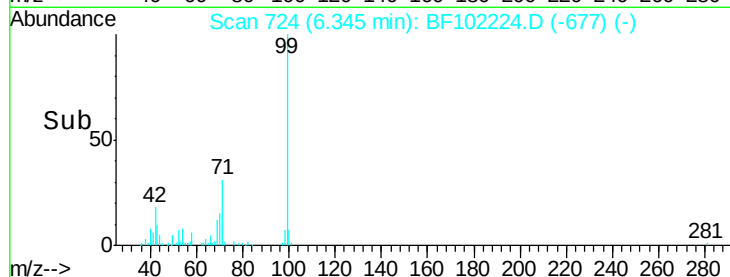
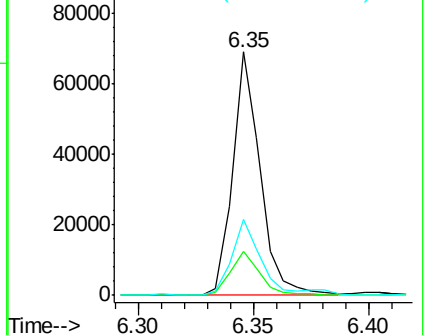
71 31.1 25.4 38.0



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: 8.00 min Scan# 1006

Delta R.T. -0.01 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

Tgt Ion: 136 Resp: 530522

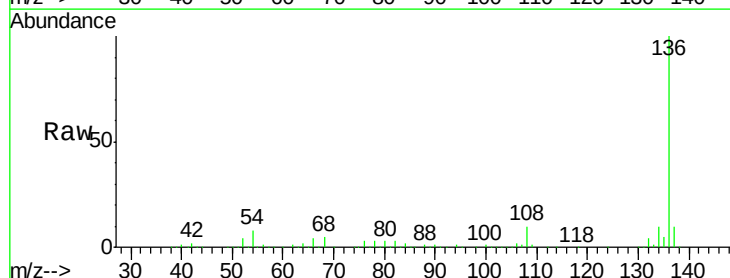
Ion Ratio Lower Upper

136 100

137 10.4 8.9 13.3

54 7.6 6.6 9.8

68 4.9 5.0 7.4#

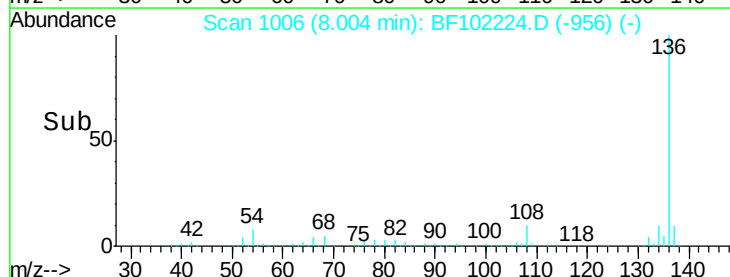
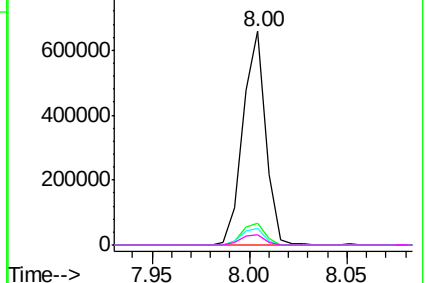


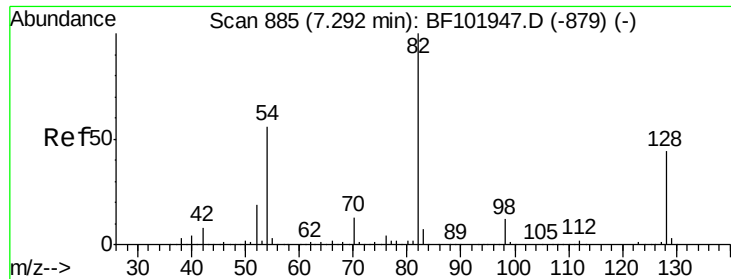
Abundance Ion 136.00 (135.70 to 136.70): E

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

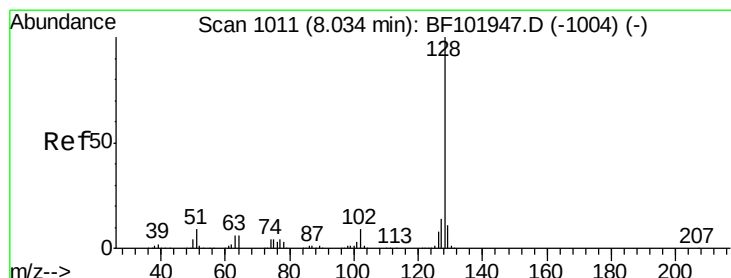
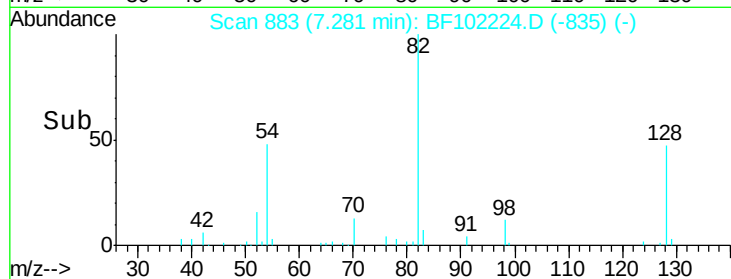
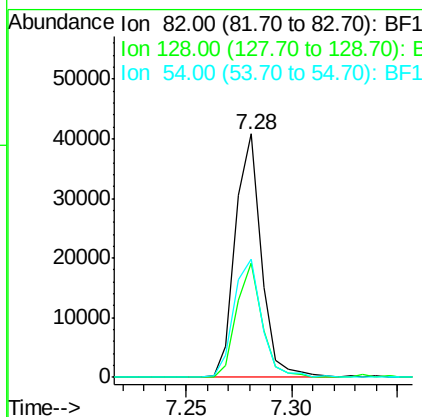
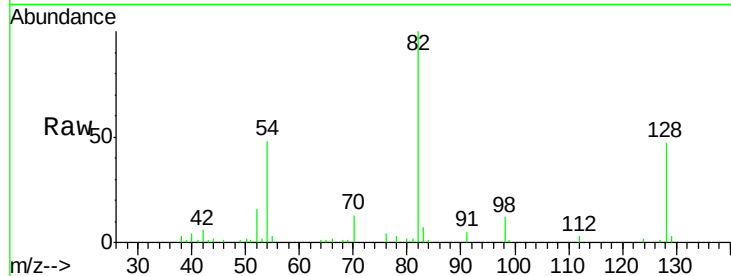




#23
 Nitrobenzene-d5
 Concen: 3.845 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.02 min
 Lab File: BF102224.D
 Acq: 19 Jan 2018 16:27

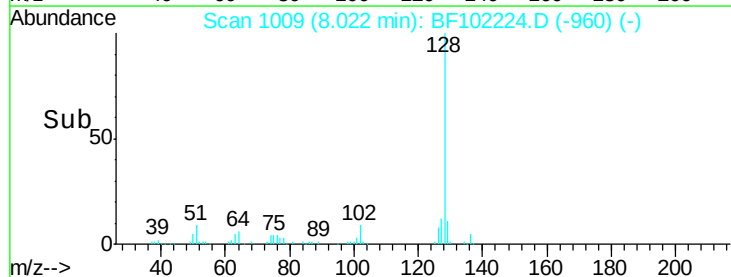
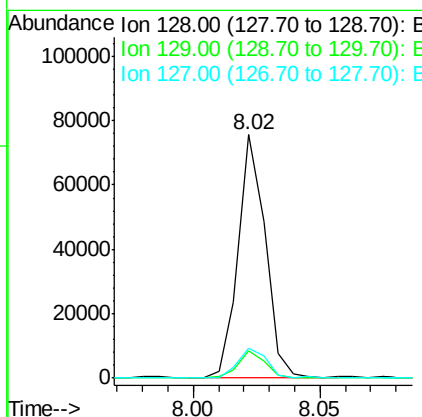
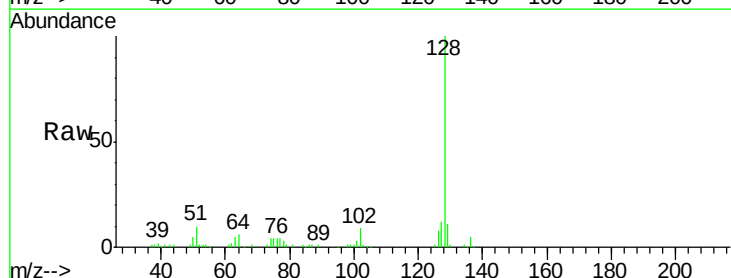
Instrument :
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 A2_SB103_W-N_5

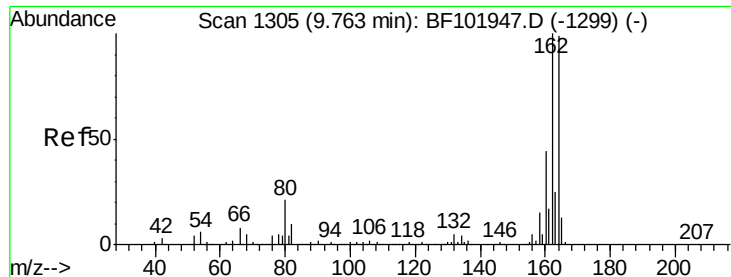
Tgt Ion: 82 Resp: 34709
 Ion Ratio Lower Upper
 82 100
 128 46.9 36.1 54.1
 54 48.5 41.4 62.2



#31
 Naphthalene
 Concen: 2.135 ng
 RT: 8.02 min Scan# 1009
 Delta R.T. -0.01 min
 Lab File: BF102224.D
 Acq: 19 Jan 2018 16:27

Tgt Ion: 128 Resp: 56606
 Ion Ratio Lower Upper
 128 100
 129 11.2 8.8 13.2
 127 12.3 10.9 16.3

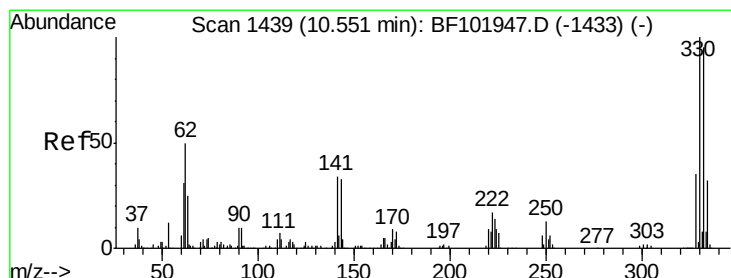
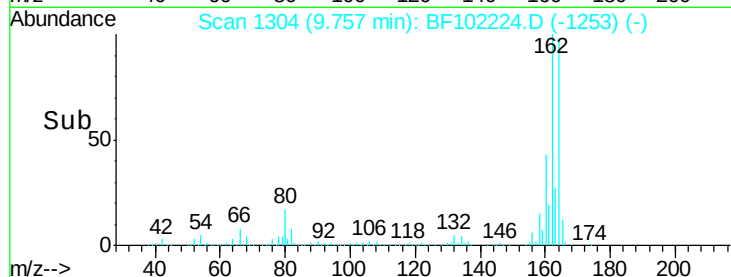
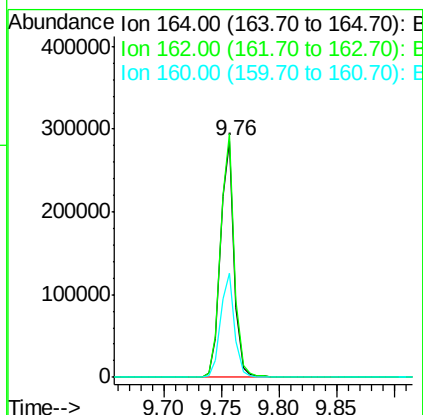
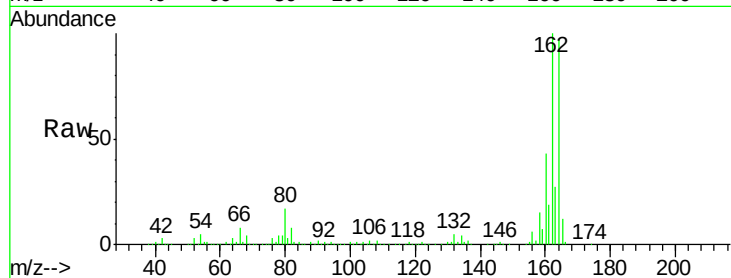




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. 0.00 min
 Lab File: BF102224.D
 Acq: 19 Jan 2018 16:27

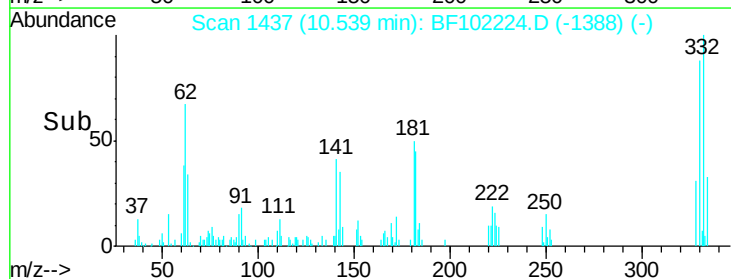
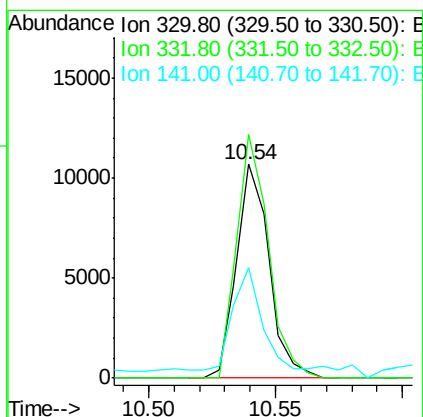
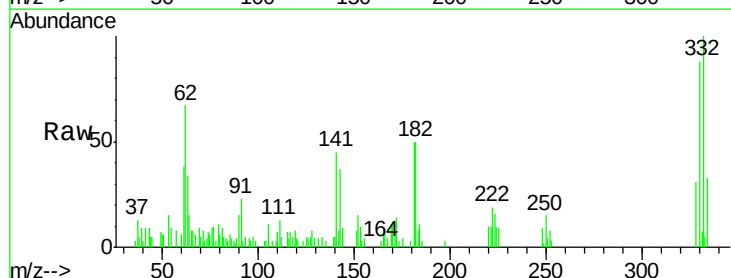
Instrument :
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 ClientSampleId :
 A2_SB103_W-N_5

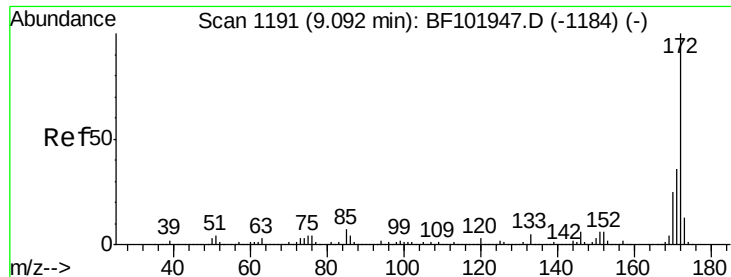
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.9	86.1	129.1
160	44.0	38.3	57.5



#41
 2,4,6-Tribromophenol
 Concen: 4.674 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF102224.D
 Acq: 19 Jan 2018 16:27

Tgt Ion	Ratio	Lower	Upper
330	100		
332	111.0	77.0	115.6
141	48.7	29.9	44.9#

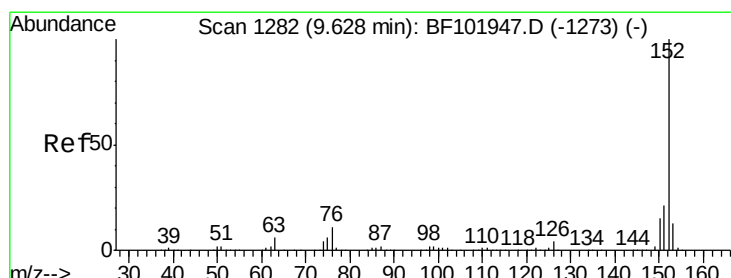
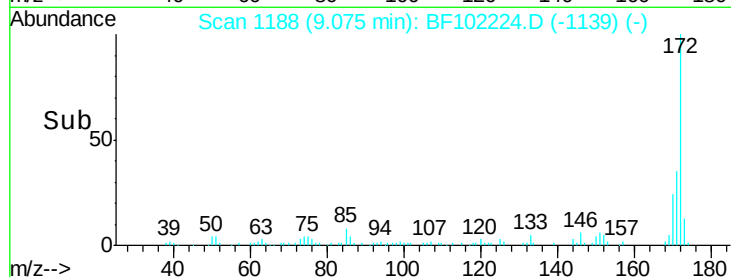
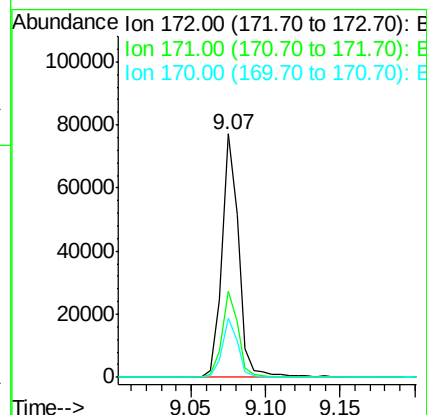
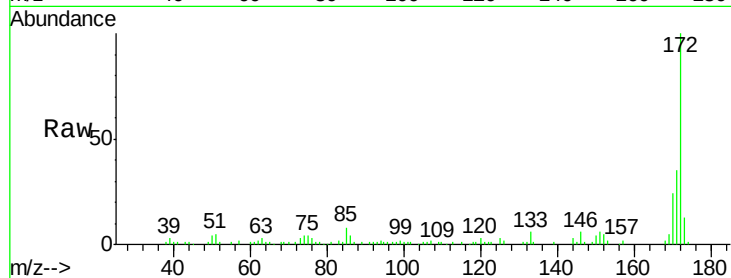




#44
 2-Fluorobiphenyl
 Concen: 4.049 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF102224.D
 Acq: 19 Jan 2018 16:27

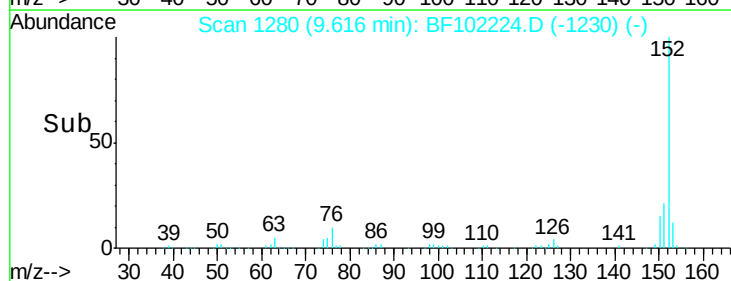
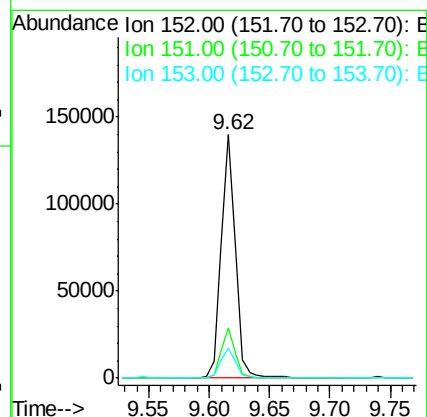
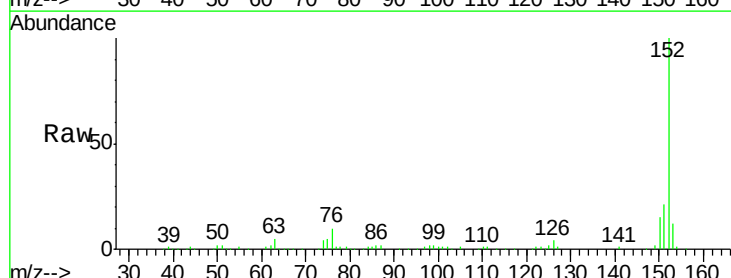
Instrument :
 BNA_F
 ClientSampleId :
 A2_SB103_W-N_5

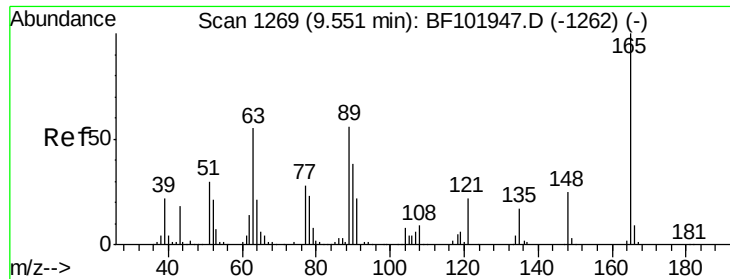
Tgt Ion:172 Resp: 60776
 Ion Ratio Lower Upper
 172 100
 171 35.5 29.7 44.5
 170 24.1 19.6 29.4



#48
 Acenaphthylene
 Concen: 4.392 ng
 RT: 9.62 min Scan# 1280
 Delta R.T. -0.01 min
 Lab File: BF102224.D
 Acq: 19 Jan 2018 16:27

Tgt Ion:152 Resp: 112020
 Ion Ratio Lower Upper
 152 100
 151 20.7 16.3 24.5
 153 12.4 10.7 16.1

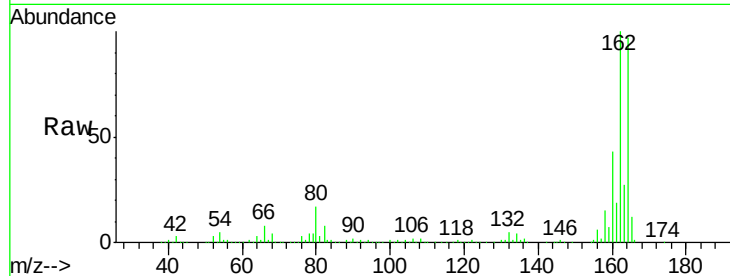




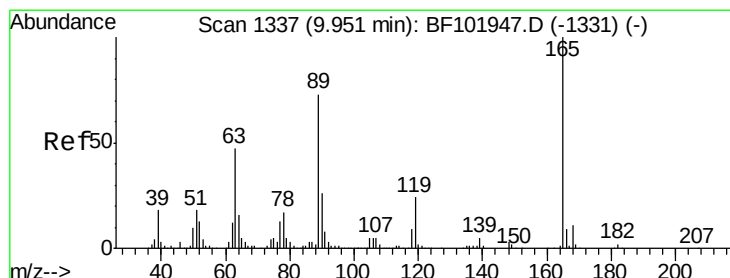
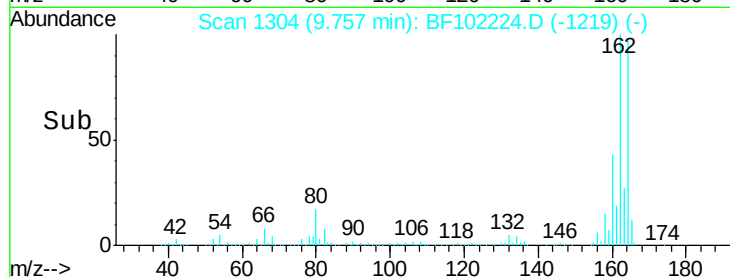
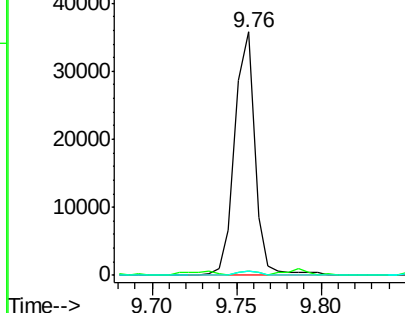
#50
2,6-Dinitrotoluene
Concen: 7.940 ng
RT: 9.76 min Scan# 1304
Delta R.T. 0.20 min
Lab File: BF102224.D
Acq: 19 Jan 2018 16:27

Instrument :
BNA_F
ClientSampleId :
A2_SB103_W-N_5

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	44.7	67.1#
89	1.7	44.0	66.0#

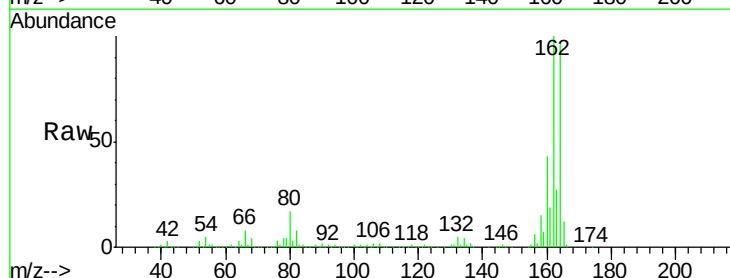


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

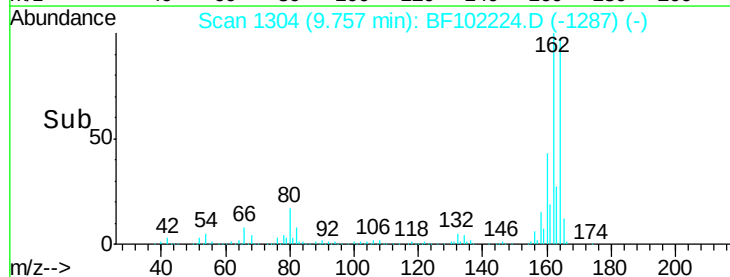
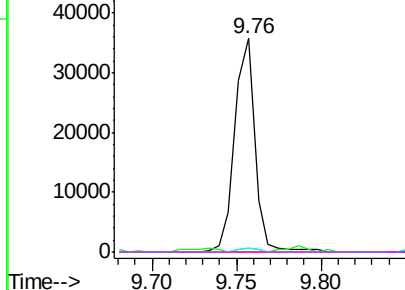


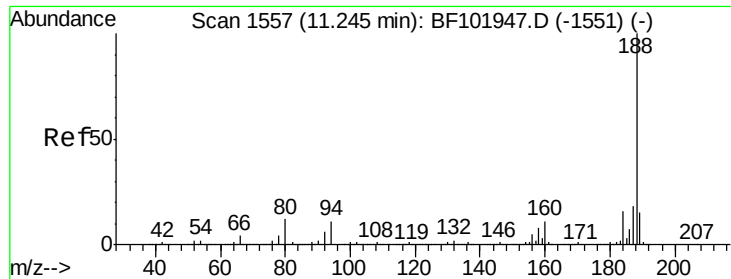
#56
2,4-Dinitrotoluene
Concen: 6.335 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.20 min
Lab File: BF102224.D
Acq: 19 Jan 2018 16:27

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	36.4	54.6#
89	1.7	57.8	86.6#
182	0.0	1.6	2.4#



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
Ion 182.00 (181.70 to 182.70): E

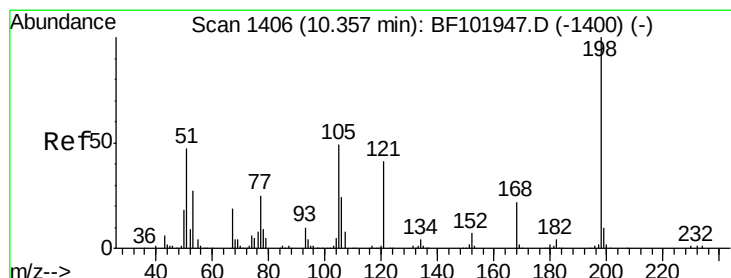
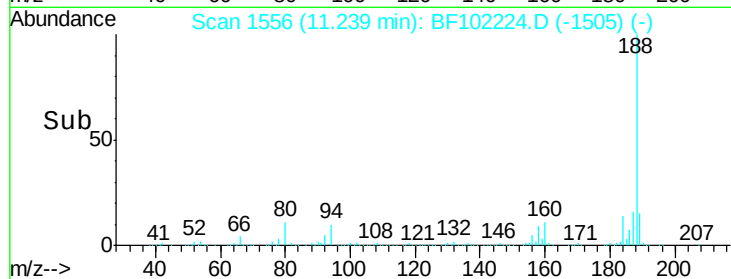
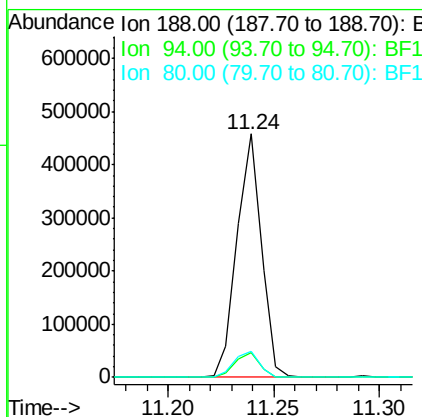
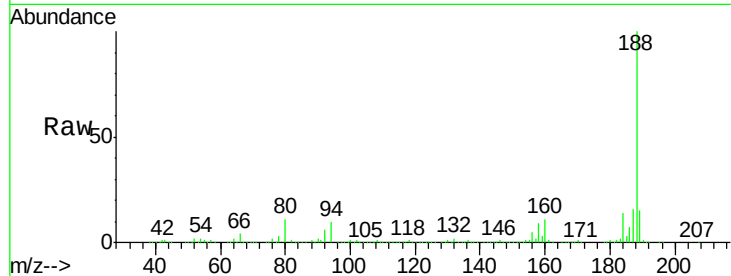




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. 0.00 min
 Lab File: BF102224.D
 Acq: 19 Jan 2018 16:27

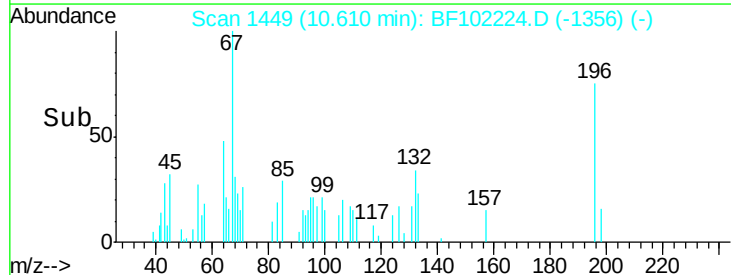
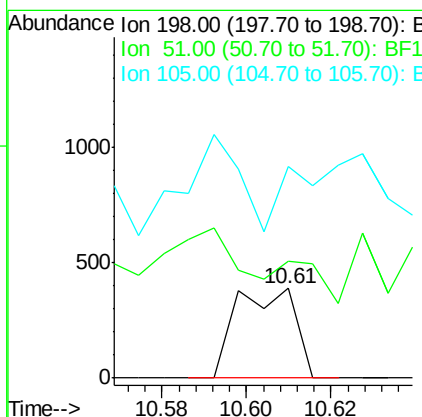
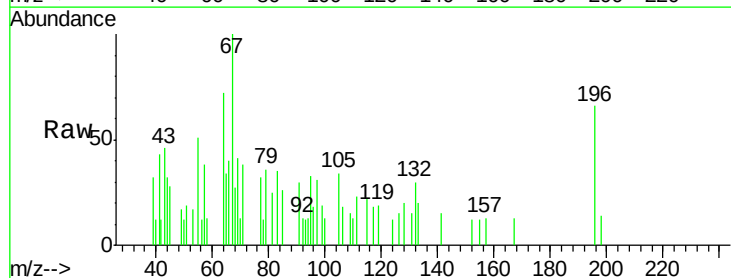
Instrument :
 BNA_F
 ClientSampleId :
 A2_SB103_W-N_5

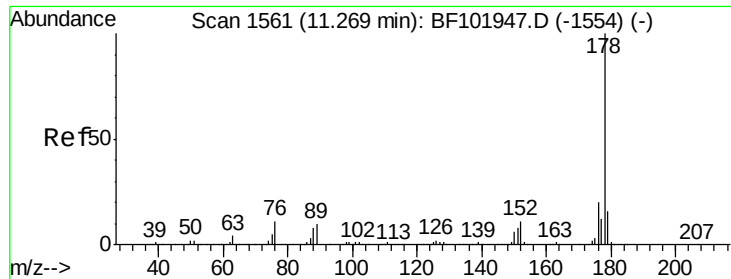
Tgt Ion:188 Resp: 366668
 Ion Ratio Lower Upper
 188 100
 94 10.2 8.5 12.7
 80 10.8 9.2 13.8



#64
 4,6-Dinitro-2-methylphenol
 Concen: 5.830 ng
 RT: 10.61 min Scan# 1449
 Delta R.T. 0.25 min
 Lab File: BF102224.D
 Acq: 19 Jan 2018 16:27

Tgt Ion:198 Resp: 378
 Ion Ratio Lower Upper
 198 100
 51 129.6 37.7 77.7#
 105 236.2 36.3 76.3#





#70

Phenanthrene

Concen: 12.981 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

Instrument :

BNA_F

ClientSampleId :

A2_SB103_W-N_5

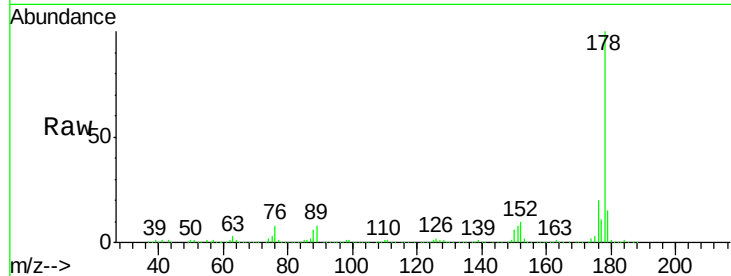
Tgt Ion:178 Resp: 278040

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

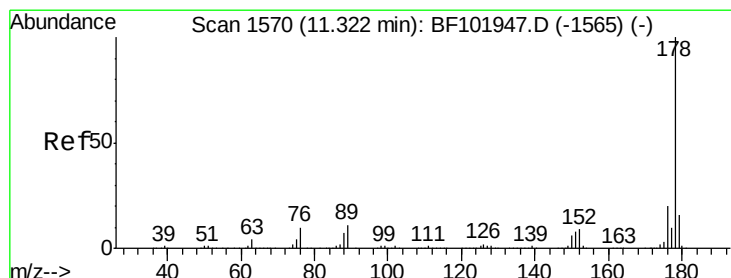
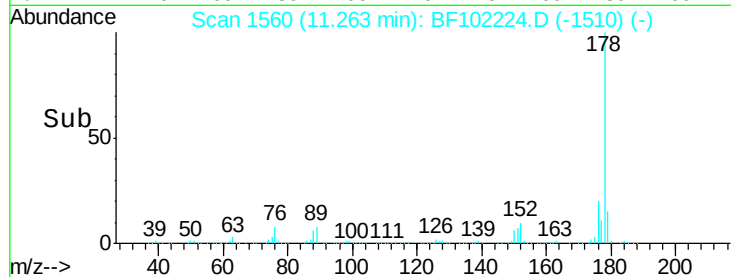
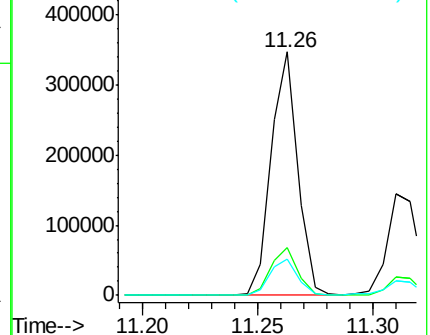
179 14.8 13.0 19.6



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: 5.877 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

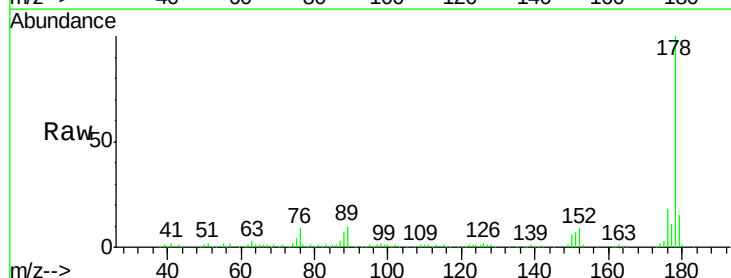
Tgt Ion:178 Resp: 127658

Ion Ratio Lower Upper

178 100

176 17.6 15.4 23.2

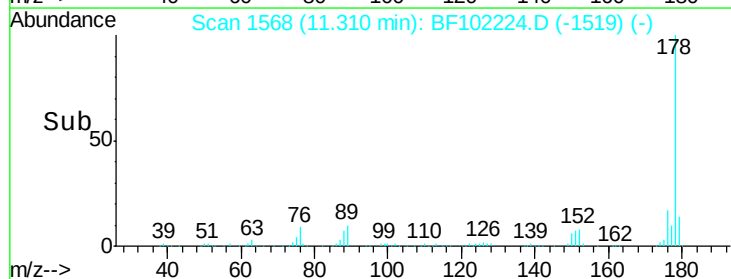
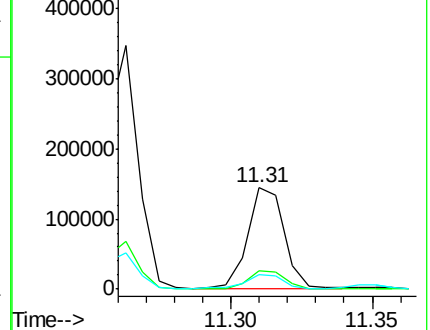
179 14.7 12.6 19.0

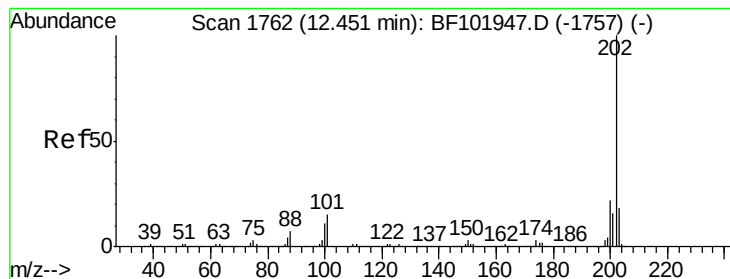


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 26.691 ng

RT: 12.45 min Scan# 1762

Delta R.T. 0.00 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

Instrument :

BNA_F

ClientSampleId :

A2_SB103_W-N_5

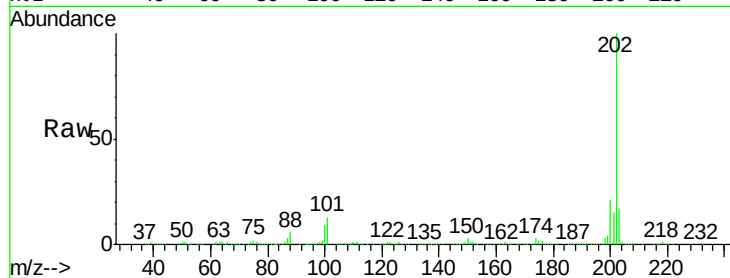
Tgt Ion:202 Resp: 562462

Ion Ratio Lower Upper

202 100

101 12.9 0.0 34.1

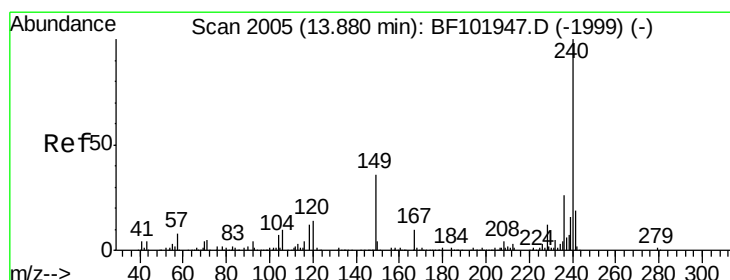
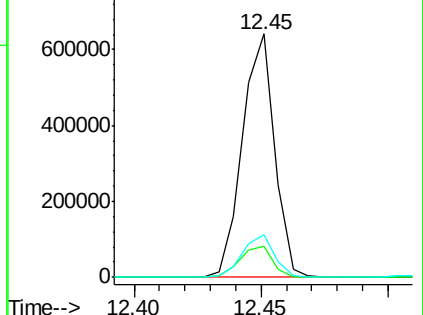
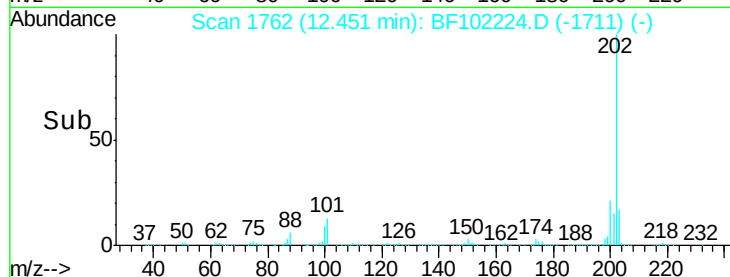
203 17.3 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. 0.00 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

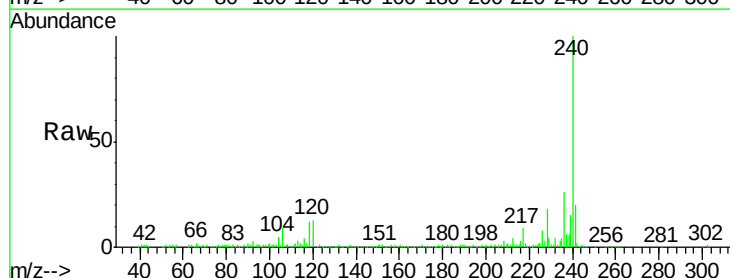
Tgt Ion:240 Resp: 257291

Ion Ratio Lower Upper

240 100

120 13.1 9.5 14.3

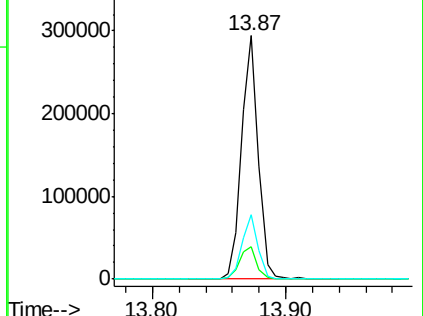
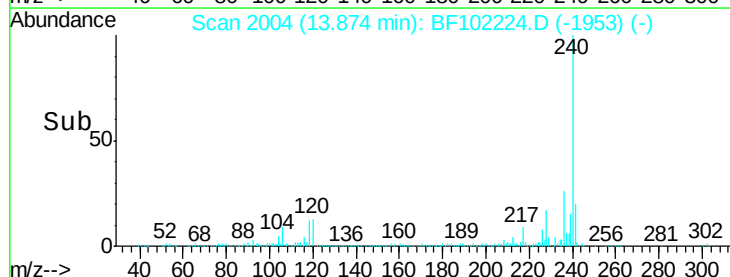
236 26.4 20.7 31.1

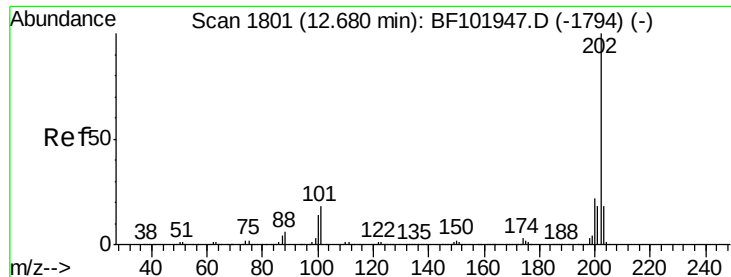


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 21.626 ng

RT: 12.68 min Scan# 1801

Delta R.T. 0.00 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

Instrument :

BNA_F

ClientSampleId :

A2_SB103_W-N_5

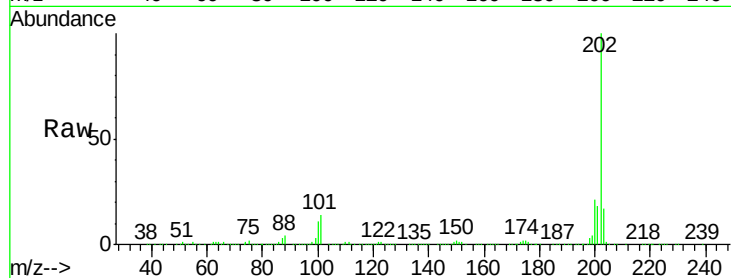
Tgt Ion: 202 Resp: 491841

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

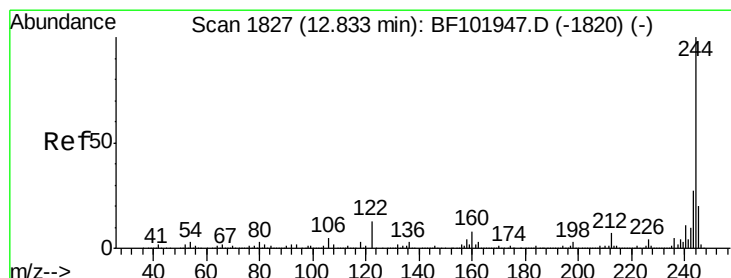
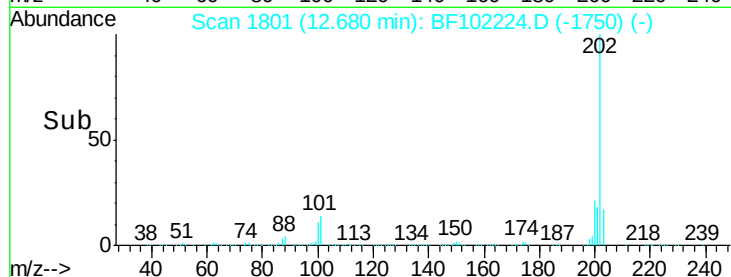
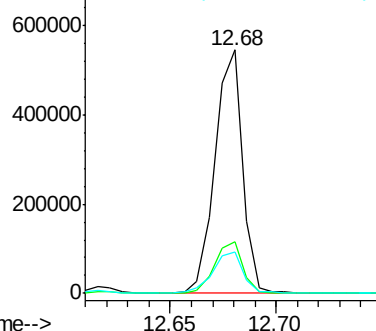
203 17.3 14.3 21.5



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: 3.631 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

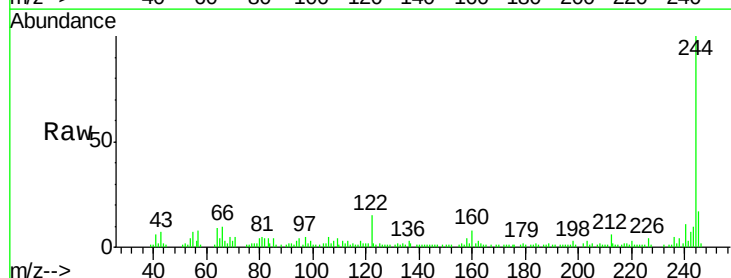
Tgt Ion: 244 Resp: 44999

Ion Ratio Lower Upper

244 100

212 6.0 5.4 8.0

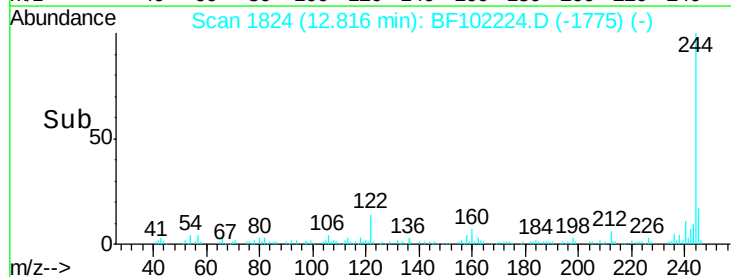
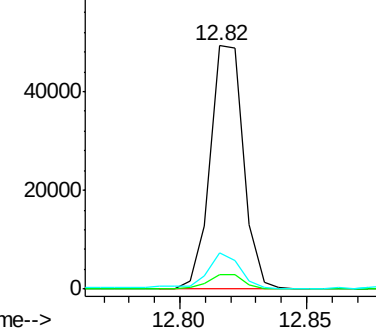
122 15.0 11.0 16.4

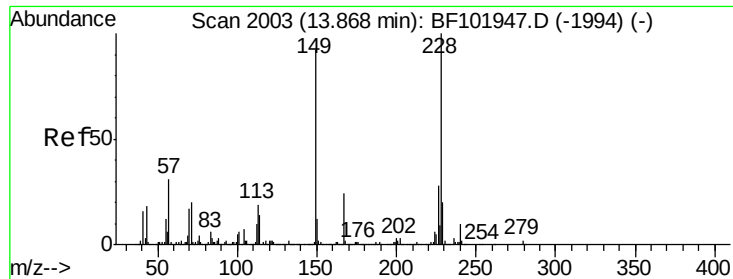


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 14.836 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.03 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

Instrument :

BNA_F

ClientSampleId :

A2_SB103_W-N_5

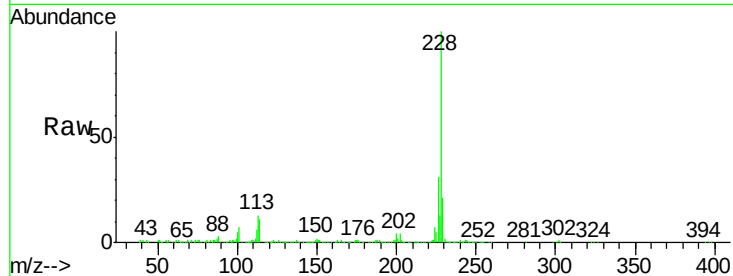
Tgt Ion:228 Resp: 243545

Ion Ratio Lower Upper

228 100

226 31.3 22.6 33.8

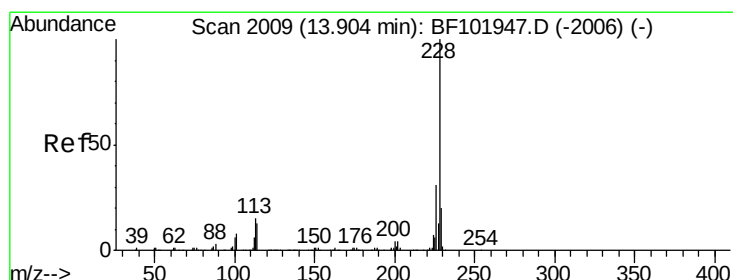
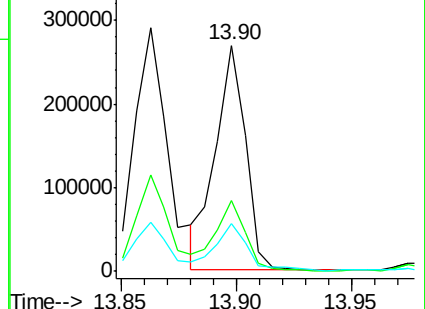
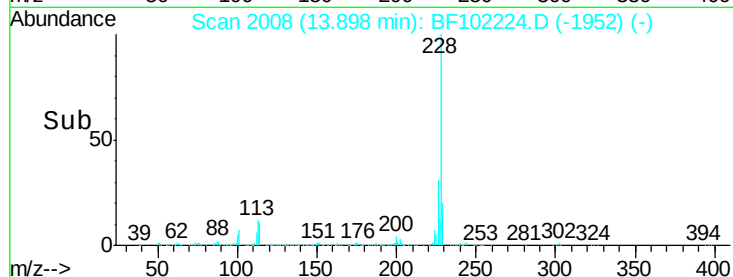
229 21.2 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 14.228 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

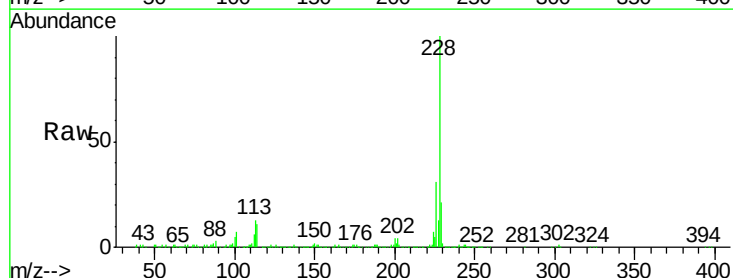
Tgt Ion:228 Resp: 243545

Ion Ratio Lower Upper

228 100

226 31.3 25.0 37.6

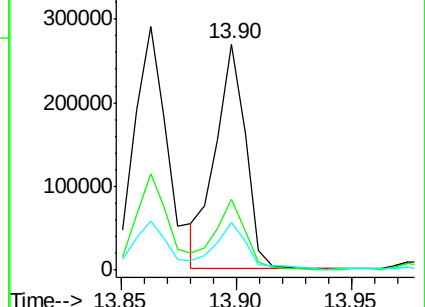
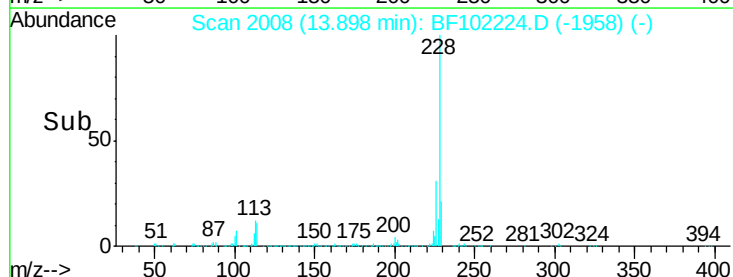
229 21.2 16.2 24.4

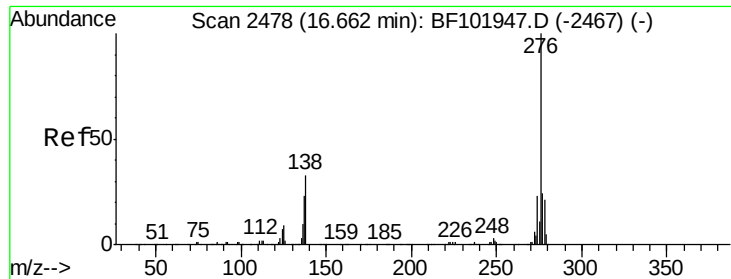


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

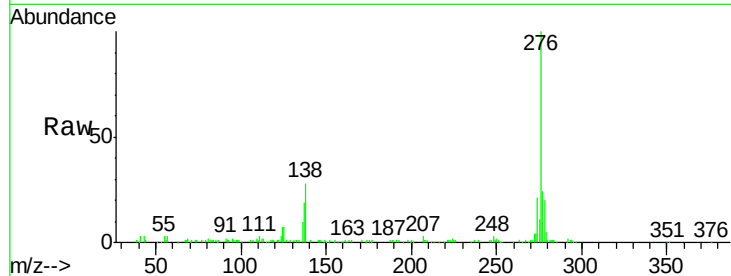




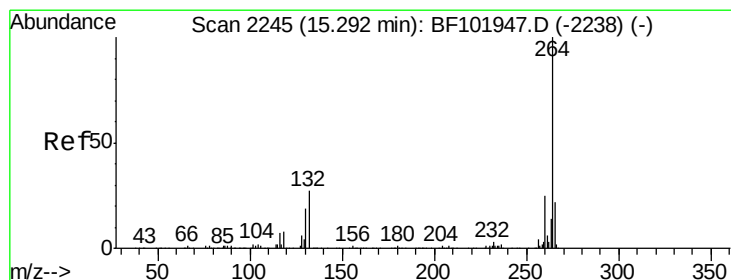
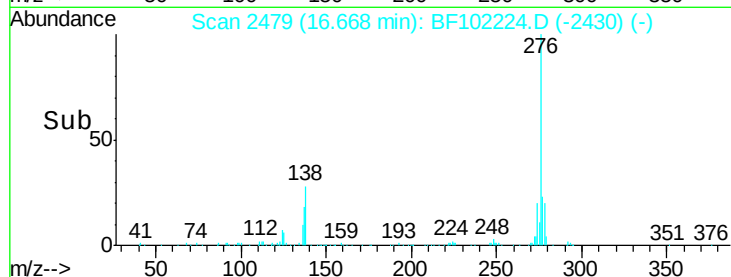
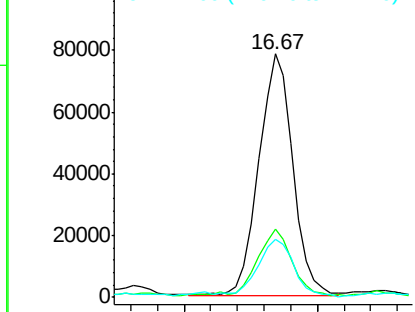
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.077 ng
 RT: 16.67 min Scan# 2479
 Delta R.T. -0.01 min
 Lab File: BF102224.D
 Acq: 19 Jan 2018 16:27

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB103_W-N_5

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.3	25.0	37.6
277	25.6	20.1	30.1

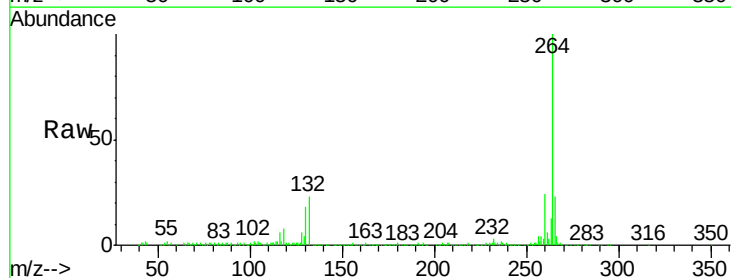


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

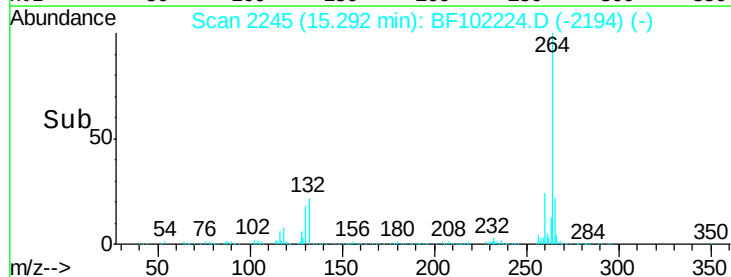
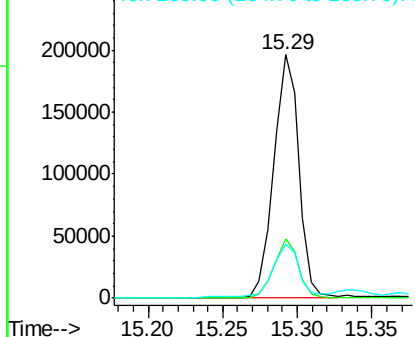


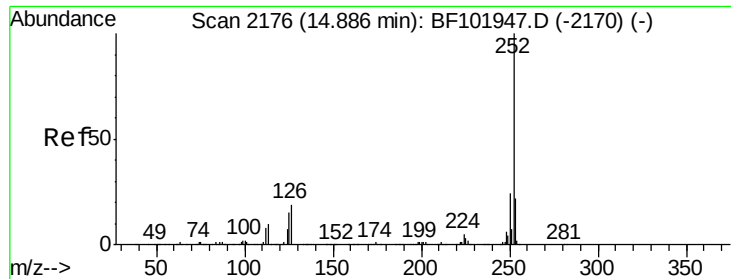
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.29 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: BF102224.D
 Acq: 19 Jan 2018 16:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	22.5	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

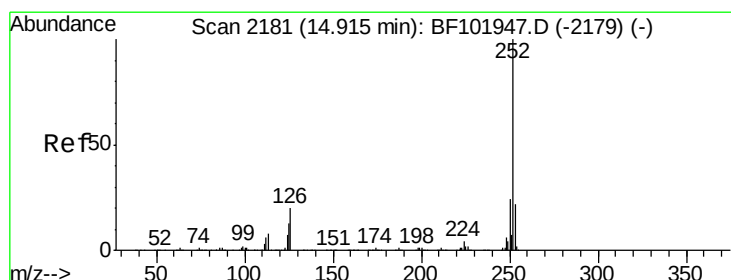
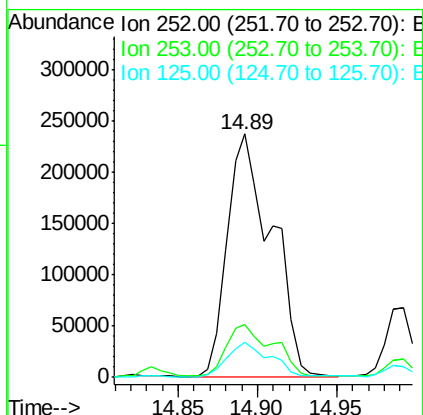
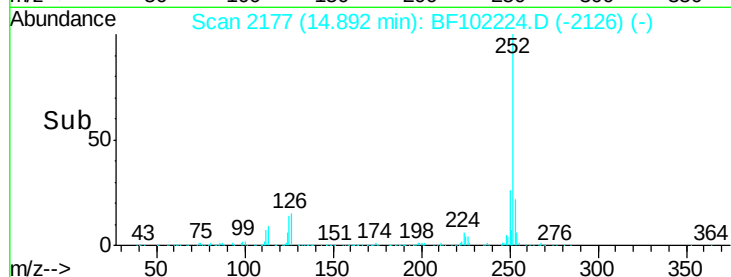
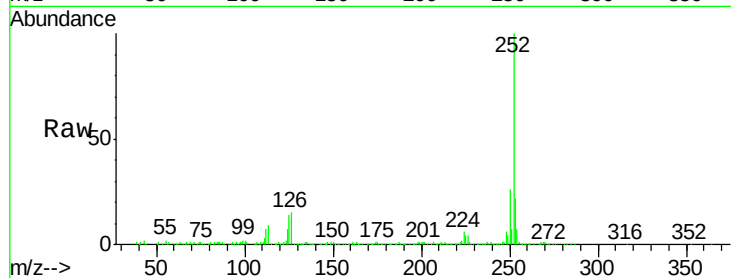




#87
Benzo(b)fluoranthene
Concen: 30.593 ng
RT: 14.89 min Scan# 2177
Delta R.T. 0.00 min
Lab File: BF102224.D
Acq: 19 Jan 2018 16:27

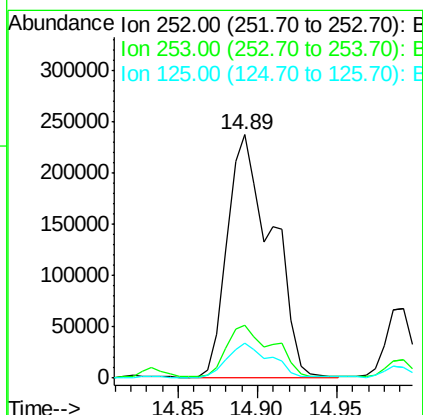
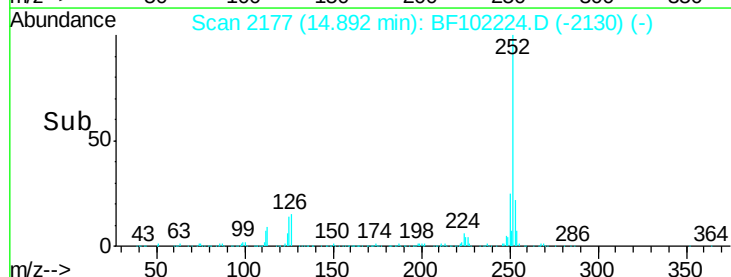
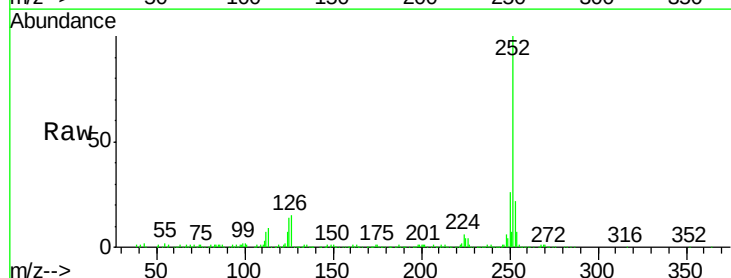
Instrument :
BNA_F
ClientSampleId :
A2_SB103_W-N_5

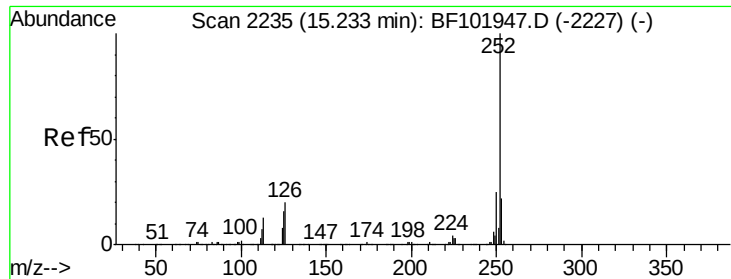
Tgt Ion:252 Resp: 461169
Ion Ratio Lower Upper
252 100
253 21.9 17.0 25.6
125 14.4 9.0 13.6#



#88
Benzo(k)fluoranthene
Concen: 31.714 ng
RT: 14.89 min Scan# 2177
Delta R.T. -0.02 min
Lab File: BF102224.D
Acq: 19 Jan 2018 16:27

Tgt Ion:252 Resp: 461169
Ion Ratio Lower Upper
252 100
253 21.9 17.9 26.9
125 14.4 10.2 15.2





#89

Benzo(a)pyrene

Concen: 17.982 ng

RT: 15.23 min Scan# 2235

Delta R.T. 0.00 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

Instrument :

BNA_F

ClientSampleId :

A2_SB103_W-N_5

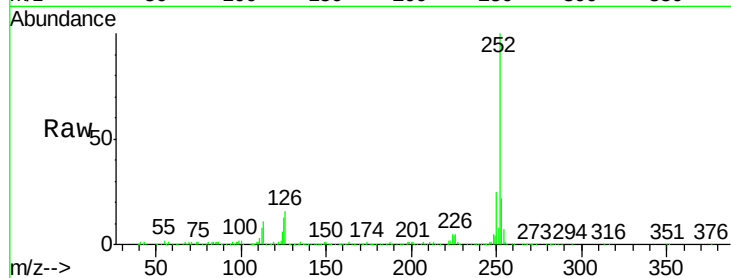
Tgt Ion:252 Resp: 243927

Ion Ratio Lower Upper

252 100

253 22.0 17.1 25.7

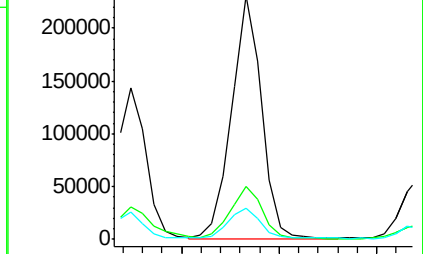
125 13.0 9.8 14.6



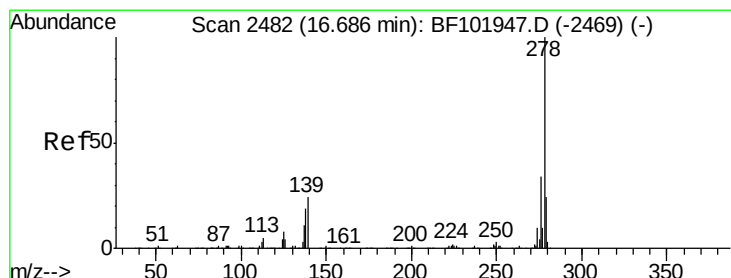
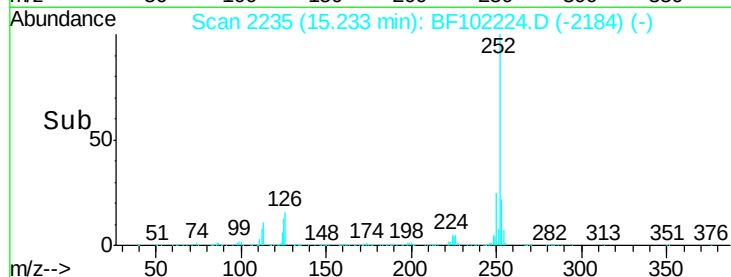
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#90

Dibenzo(a,h)anthracene

Concen: 3.409 ng

RT: 16.68 min Scan# 2481

Delta R.T. -0.02 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

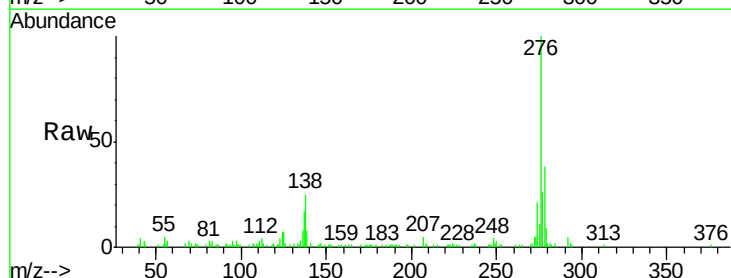
Tgt Ion:278 Resp: 36899

Ion Ratio Lower Upper

278 100

139 20.9 15.9 23.9

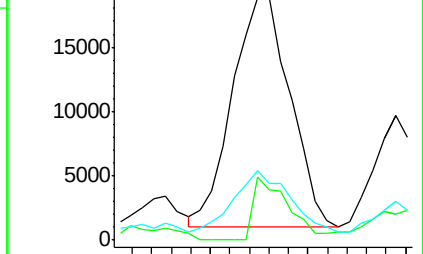
279 23.1 19.0 28.4



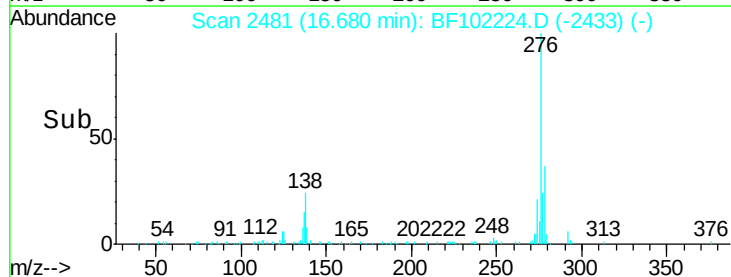
Abundance Ion 278.00 (277.70 to 278.70): E

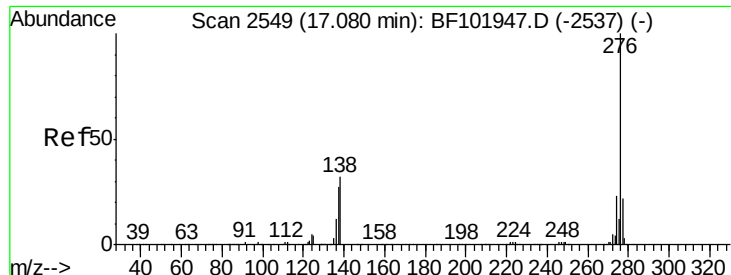
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->





#91

Benzo(g,h,i)perylene

Concen: 11.163 ng

RT: 17.09 min Scan# 2550

Delta R.T. -0.01 min

Lab File: BF102224.D

Acq: 19 Jan 2018 16:27

Instrument :

BNA_F

ClientSampleId :

A2_SB103_W-N_5

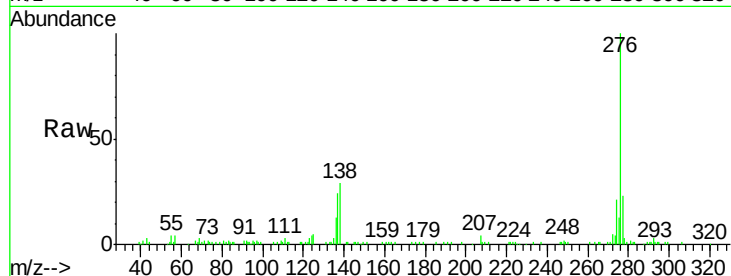
Tgt Ion: 276 Resp: 121726

Ion Ratio Lower Upper

276 100

277 22.9 17.9 26.9

138 28.9 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

