

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101917\
 Data File : BF099665.D
 Acq On : 19 Oct 2017 19:03
 Operator : SJ/JU
 Sample : I5895-01 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 20 12:49:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 19 19:55:56 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	124277	20.00	ng	-0.01
21) Naphthalene-d8	8.10	136	490655	20.00	ng	-0.01
38) Acenaphthene-d10	9.85	164	202544	20.00	ng	-0.02
63) Phenanthrene-d10	11.34	188	285095	20.00	ng	-0.01
75) Chrysene-d12	13.99	240	206865	20.00	ng	-0.01
86) Perylene-d12	15.45	264	229339	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	39837	5.10	ng	0.00
7) Phenol-d6	6.46	99	46962	4.88	ng	-0.02
23) Nitrobenzene-d5	7.39	82	25941	3.39	ng	-0.01
41) 2,4,6-Tribromophenol	10.65	330	6708	4.05	ng	-0.01
44) 2-Fluorobiphenyl	9.17	172	59641	4.92	ng	-0.02
78) Terphenyl-d14	12.92	244	33160	3.65	ng	-0.02

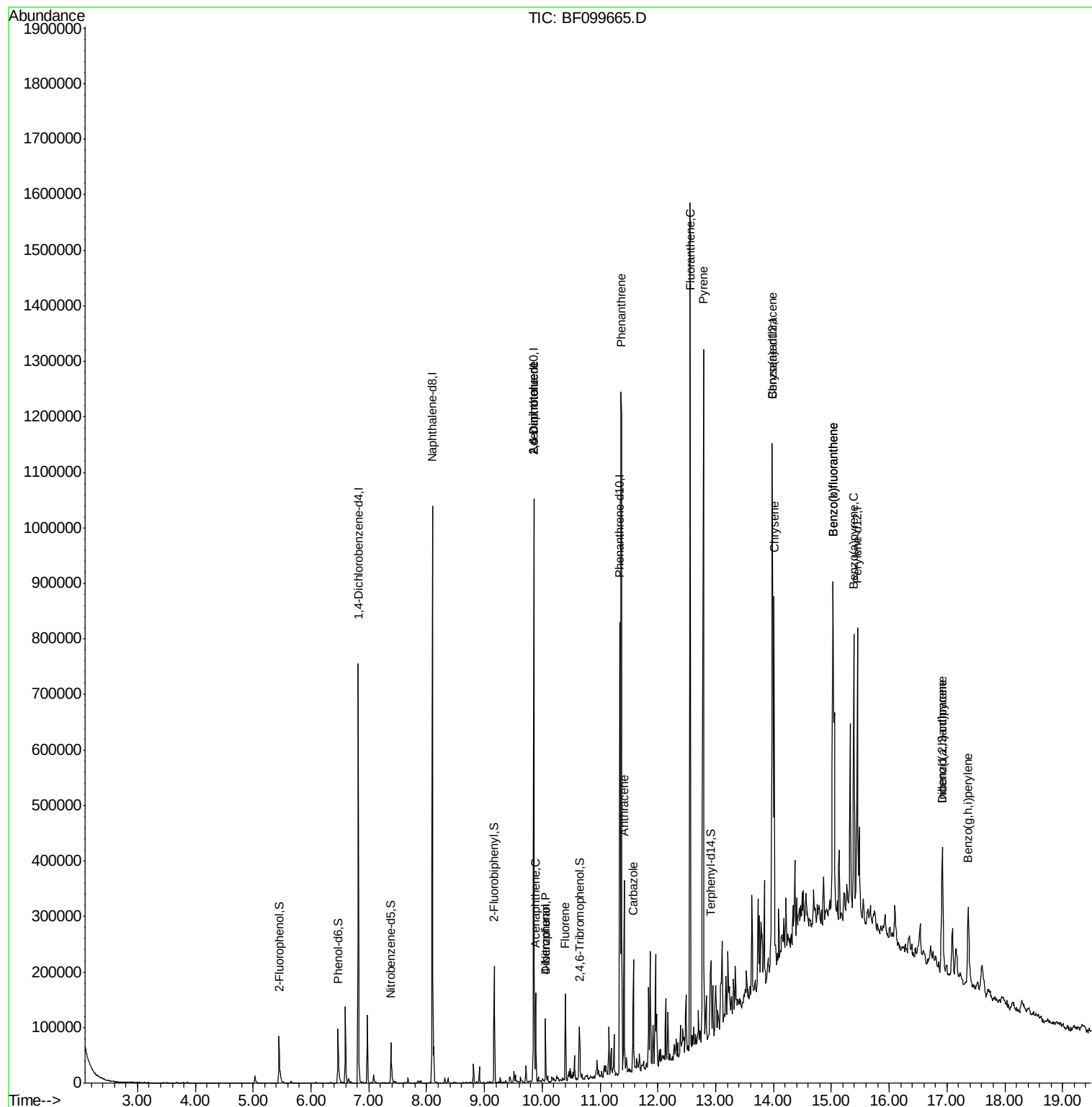
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
50) 2,6-Dinitrotoluene	9.85	165	26137	7.854	ng	# 25
51) Acenaphthene	9.89	154	31672	2.499	ng	98
54) Dibenzofuran	10.06	168	39092	2.317	ng	98
55) 4-Nitrophenol	10.06	139	13927	4.244	ng	# 11
56) 2,4-Dinitrotoluene	9.85	165	26137	6.051	ng	# 23
57) Fluorene	10.40	166	42157	3.108	ng	95
70) Phenanthrene	11.37	178	470355	30.822	ng	99
71) Anthracene	11.42	178	125104	8.012	ng	98
72) Carbazole	11.57	167	69808	4.565	ng	98
74) Fluoranthene	12.56	202	580533	37.568	ng	99
77) Pyrene	12.79	202	486539	30.844	ng	99
80) Benzo(a)anthracene	13.97	228	291404	23.264	ng	99
82) Chrysene	14.01	228	245835	20.614	ng	97
85) Indeno(1,2,3-cd)pyrene	16.92	276	121510	12.737	ng	97
87) Benzo(b)fluoranthene	15.03	252	448943	31.838	ng	# 92
88) Benzo(k)fluoranthene	15.03	252	448855	32.228	ng	95
89) Benzo(a)pyrene	15.39	252	230191	17.784	ng	# 94
90) Dibenzo(a,h)anthracene	16.92	278	36100	3.485	ng	# 84
91) Benzo(a,h,i)perylene	17.37	276	109969	10.740	ng	92

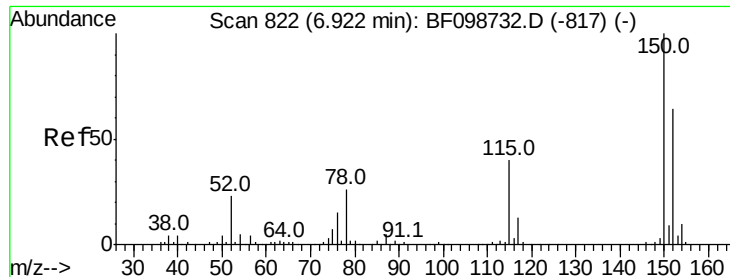
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101917\
Data File : BF099665.D
Acq On : 19 Oct 2017 19:03
Operator : SJ/JU
Sample : I5895-01 10X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

Quant Time: Oct 20 12:49:19 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 19 19:55:56 2017
Response via : Initial Calibration



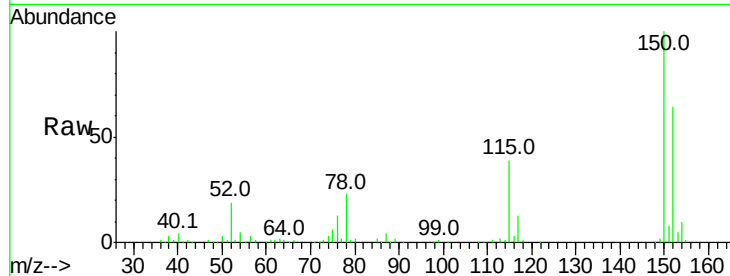


#1

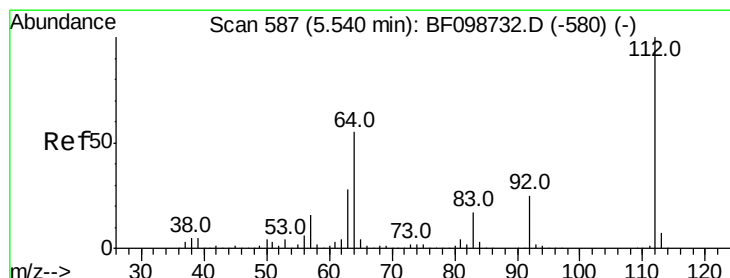
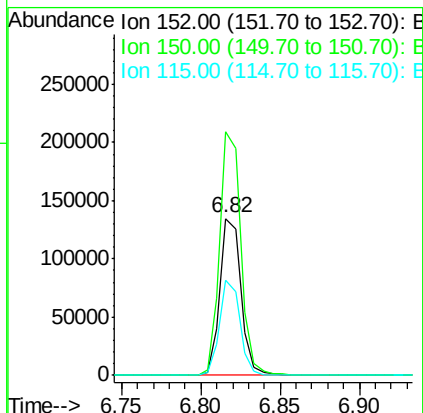
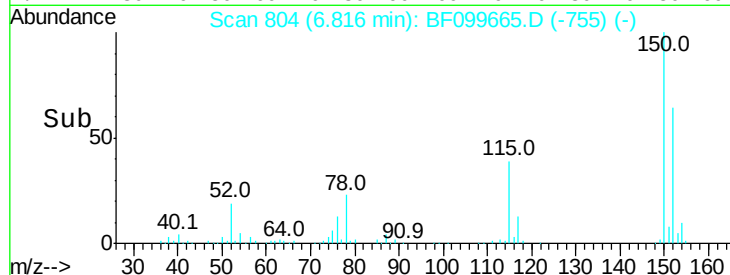
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.82 min Scan# 804
 Delta R.T. -0.01 min
 Lab File: BF099665.D
 Acq: 19 Oct 2017 19:03

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 124277
 Ion Ratio Lower Upper
 152 100
 150 155.2 124.6 186.8
 115 60.9 50.1 75.1



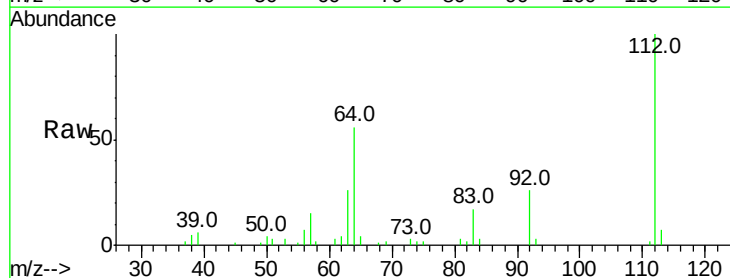
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



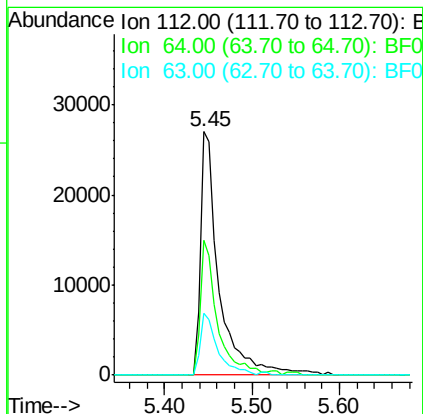
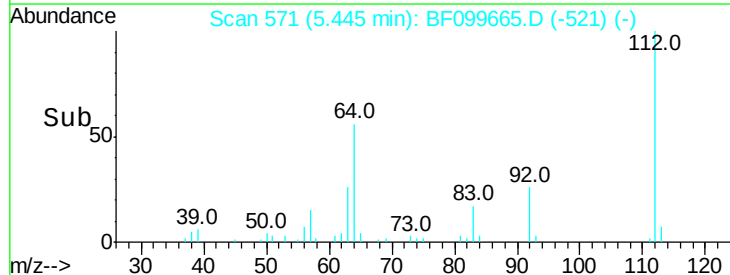
#5

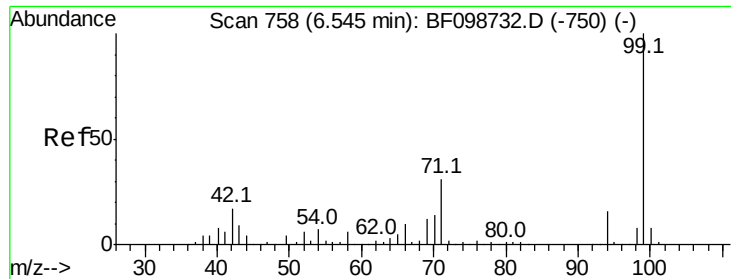
2-Fluorophenol
 Concen: 5.103 ng
 RT: 5.45 min Scan# 571
 Delta R.T. -0.01 min
 Lab File: BF099665.D
 Acq: 19 Oct 2017 19:03

Tgt Ion:112 Resp: 39837
 Ion Ratio Lower Upper
 112 100
 64 55.5 47.9 71.9
 63 25.6 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 4.876 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.02 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

Instrument :

BNA_F

ClientSampleId :

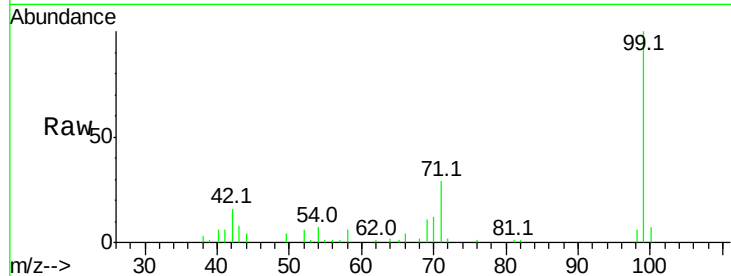
Tot Ion: 99 Resp: 46962

Ion Ratio Lower Upper

99 100

42 15.6 14.5 21.7

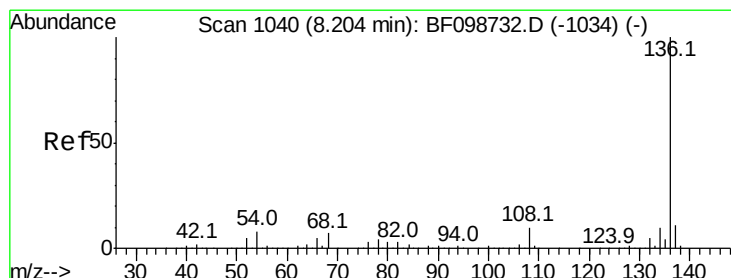
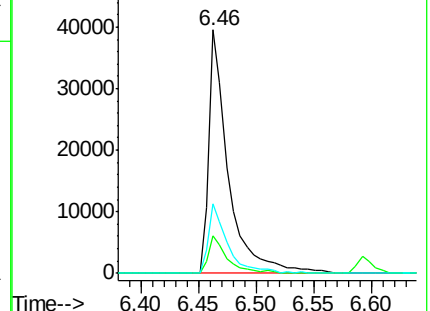
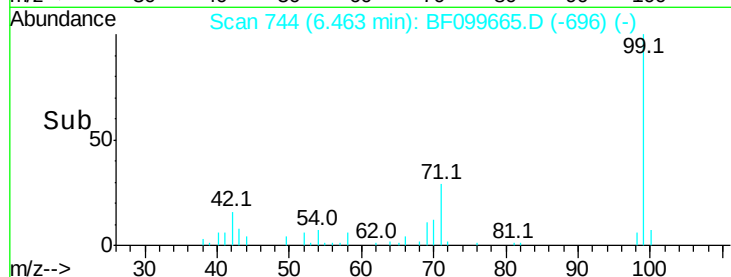
71 28.5 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

Tgt Ion: 136 Resp: 490655

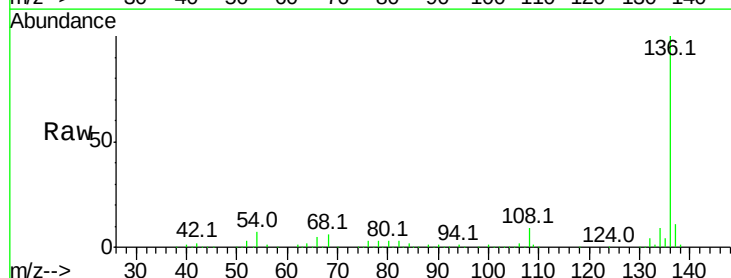
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 7.1 6.6 9.8

68 6.0 5.0 7.4

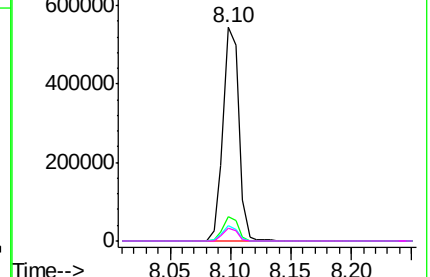
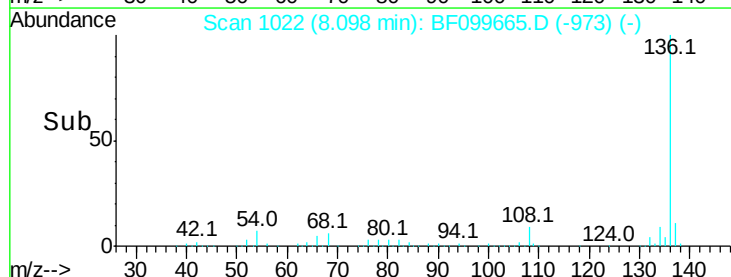


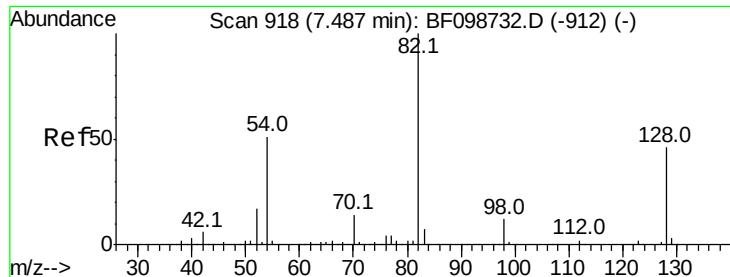
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

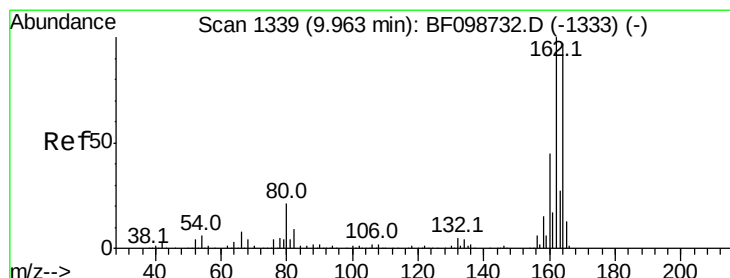
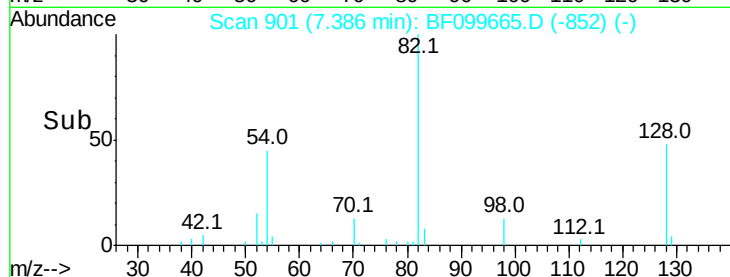
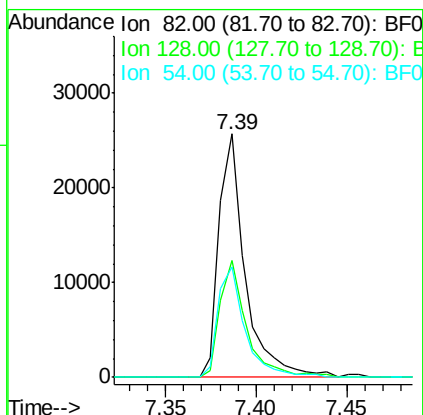
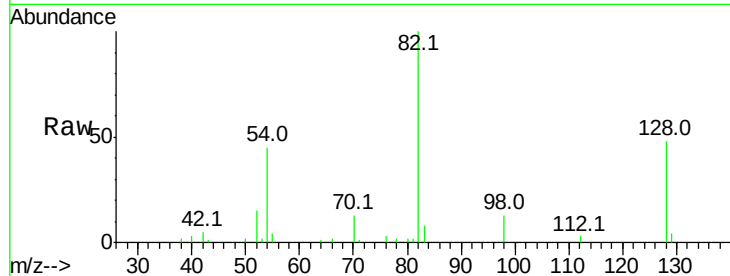




#23
Nitrobenzene-d5
Concen: 3.391 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.01 min
Lab File: BF099665.D
Acq: 19 Oct 2017 19:03

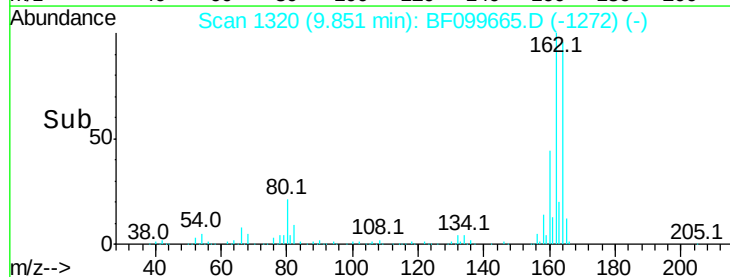
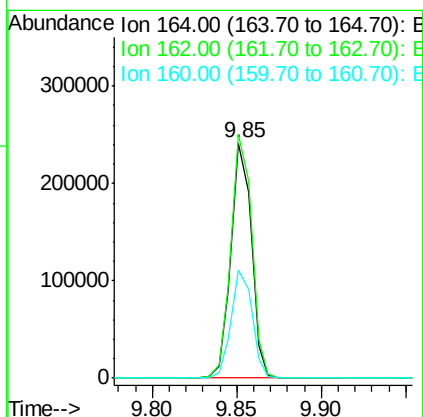
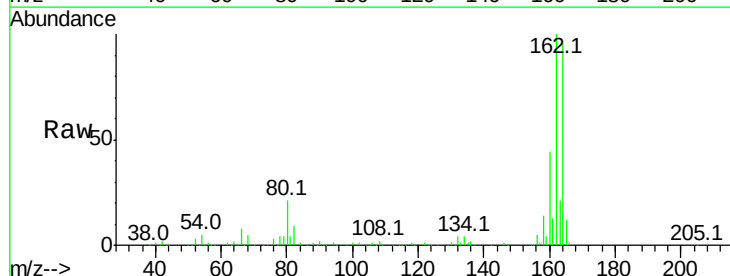
Instrument :
BNA_F
ClientSampleId :

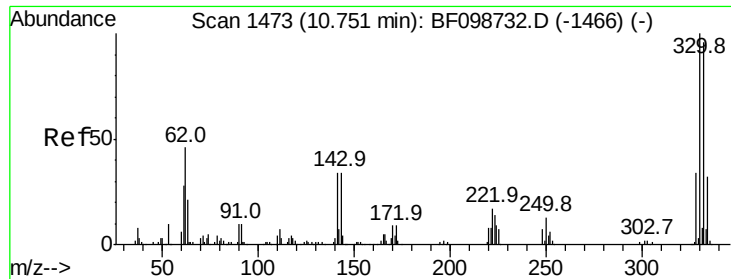
Tot Ion: 82 Resp: 25941
Ion Ratio Lower Upper
82 100
128 48.1 36.1 54.1
54 45.4 41.4 62.2



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.02 min
Lab File: BF099665.D
Acq: 19 Oct 2017 19:03

Tgt Ion:164 Resp: 202544
Ion Ratio Lower Upper
164 100
162 103.7 86.1 129.1
160 46.1 38.3 57.5

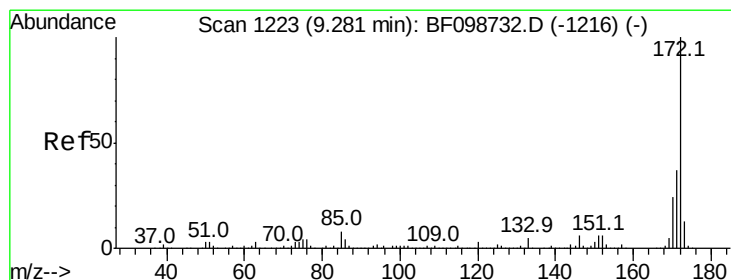
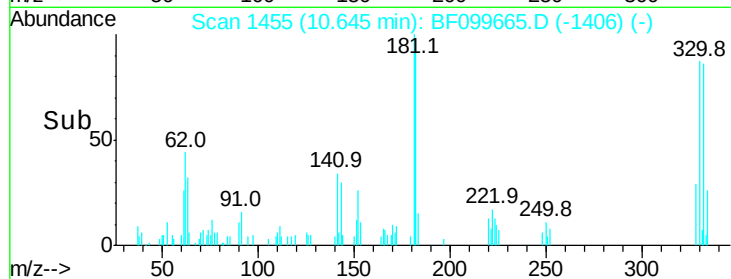
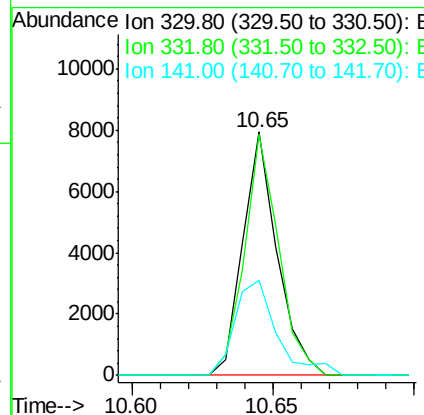
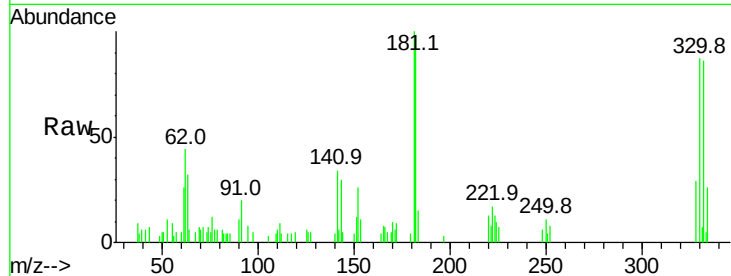




#41
 2,4,6-Tribromophenol
 Concen: 4.047 ng
 RT: 10.65 min Scan# 1455
 Delta R.T. -0.01 min
 Lab File: BF099665.D
 Acq: 19 Oct 2017 19:03

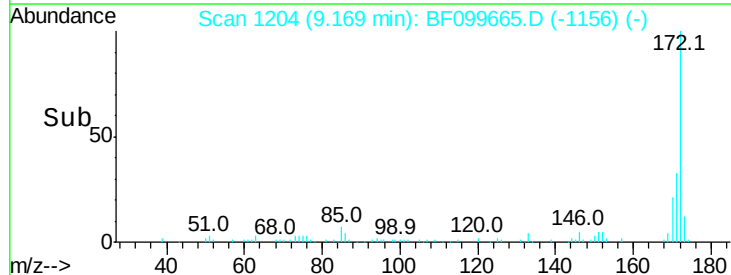
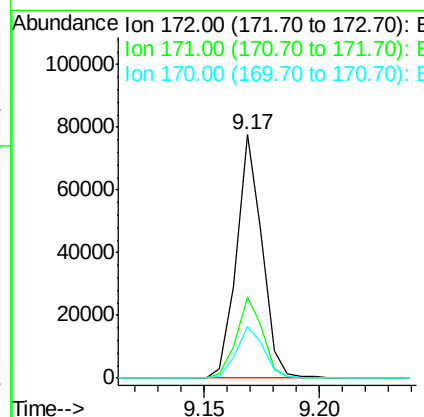
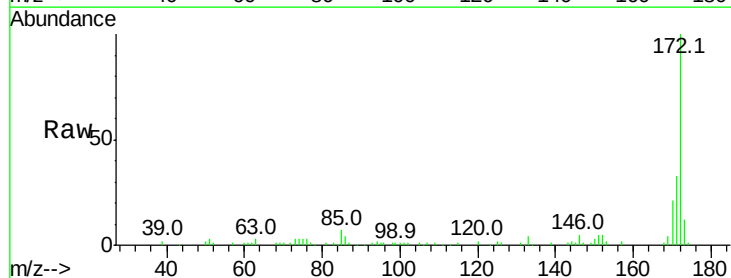
Instrument :
 BNA_F
 ClientSampled :

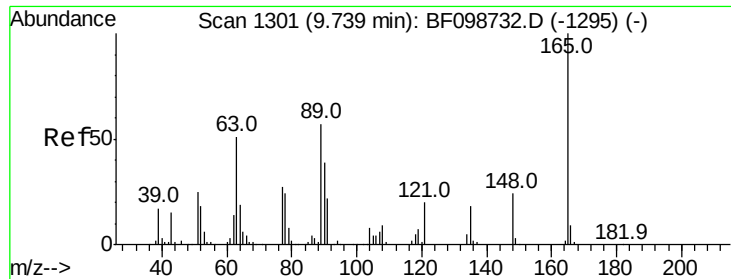
Tot Ion:330 Resp: 6708
 Ion Ratio Lower Upper
 330 100
 332 98.7 77.0 115.6
 141 47.8 29.9 44.9#



#44
 2-Fluorobiphenyl
 Concen: 4.916 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: BF099665.D
 Acq: 19 Oct 2017 19:03

Tgt Ion:172 Resp: 59641
 Ion Ratio Lower Upper
 172 100
 171 33.3 29.7 44.5
 170 21.1 19.6 29.4

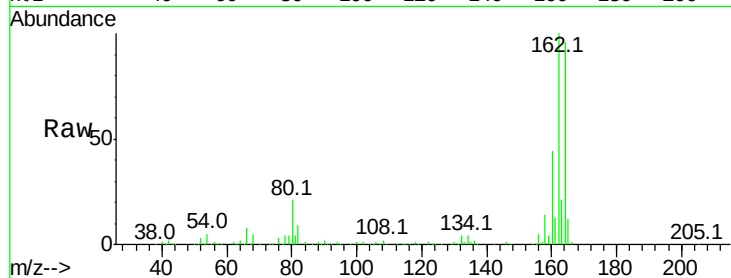




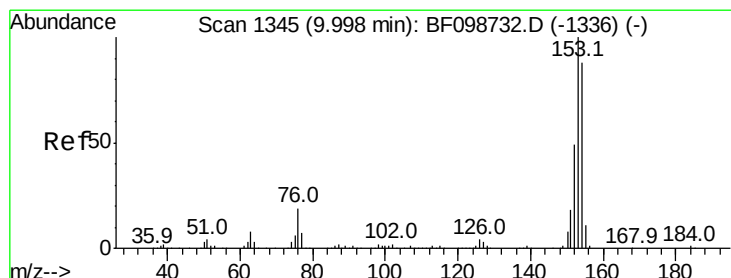
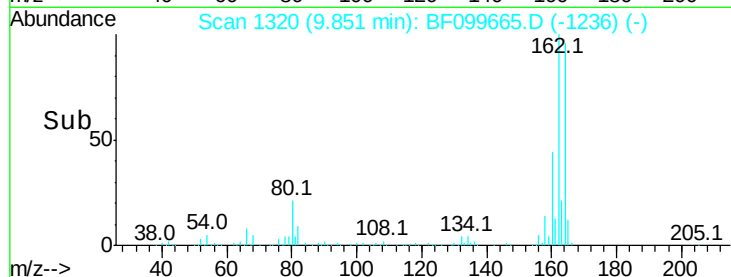
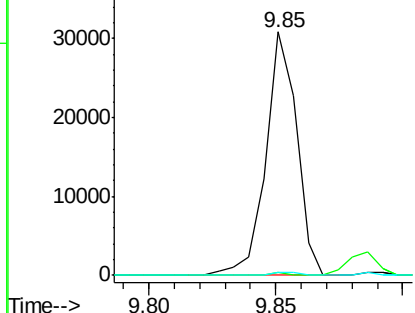
#50
2,6-Dinitrotoluene
Concen: 7.854 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.19 min
Lab File: BF099665.D
Acq: 19 Oct 2017 19:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 26137
Ion Ratio Lower Upper
165 100
63 1.1 44.7 67.1#
89 1.4 44.0 66.0#

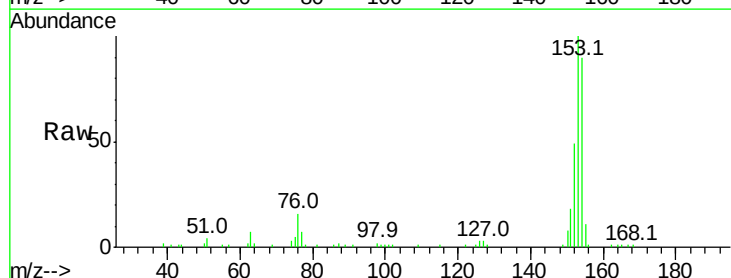


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

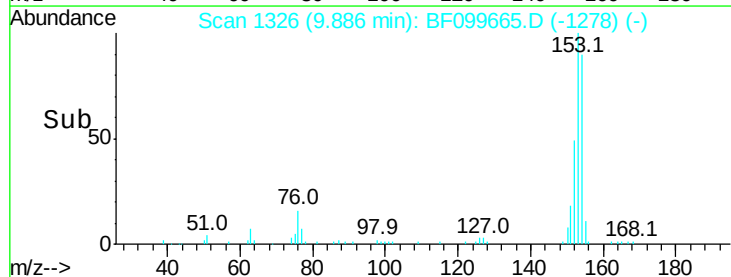
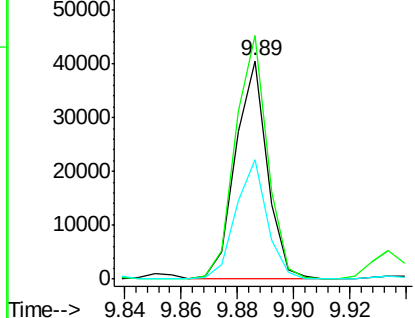


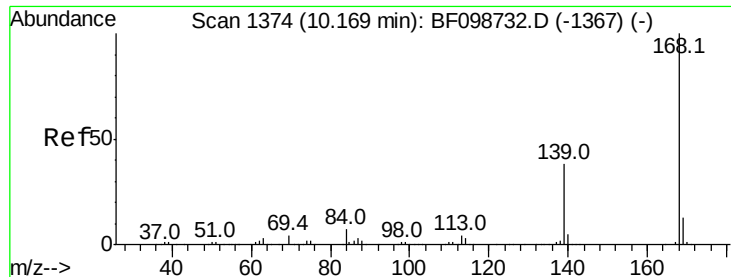
#51
Acenaphthene
Concen: 2.499 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.02 min
Lab File: BF099665.D
Acq: 19 Oct 2017 19:03

Tgt Ion:154 Resp: 31672
Ion Ratio Lower Upper
154 100
153 111.4 91.2 136.8
152 54.5 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 2.317 ng

RT: 10.06 min Scan# 1355

Delta R.T. -0.02 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

Instrument :

BNA_F

ClientSampleId :

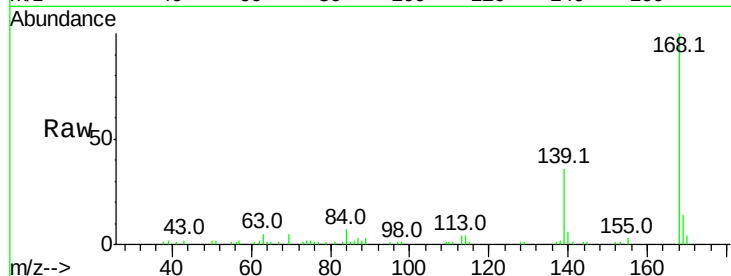
Tot Ion:168 Resp: 39092

Ion Ratio Lower Upper

168 100

139 36.2 30.1 45.1

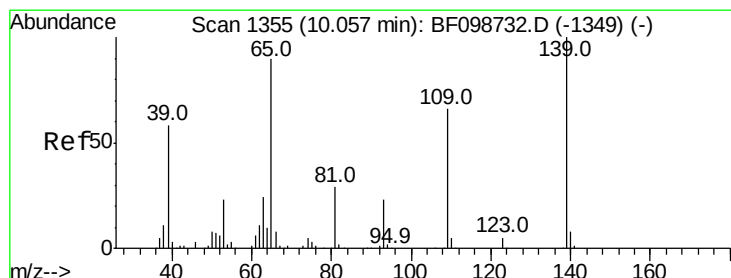
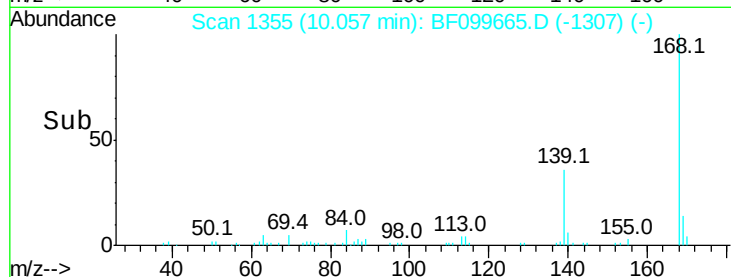
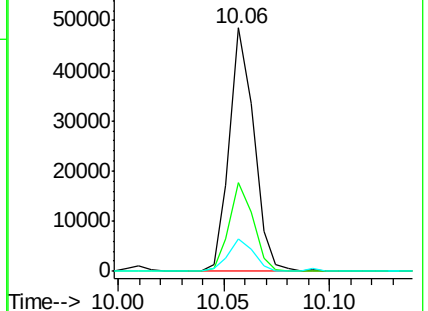
169 13.6 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 4.244 ng

RT: 10.06 min Scan# 1355

Delta R.T. 0.05 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

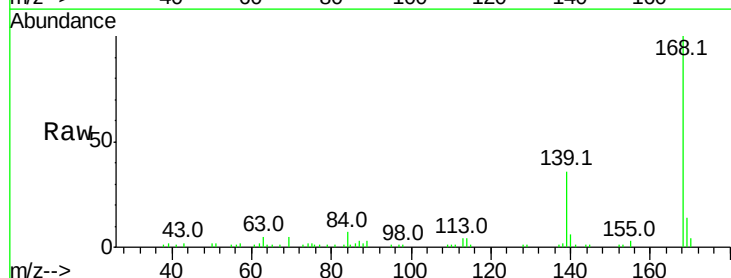
Tgt Ion:139 Resp: 13927

Ion Ratio Lower Upper

139 100

109 2.1 48.4 88.4#

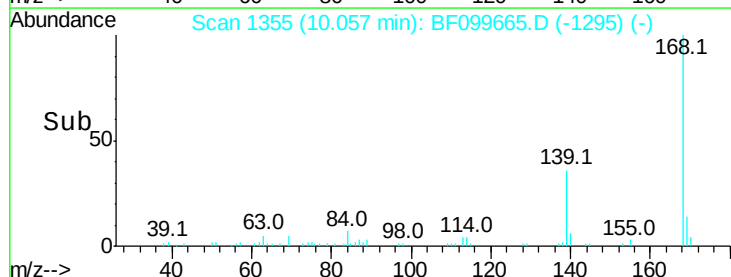
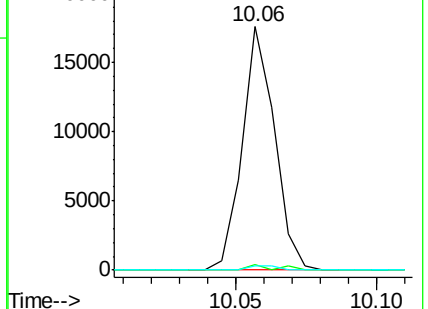
65 2.0 72.6 112.6#

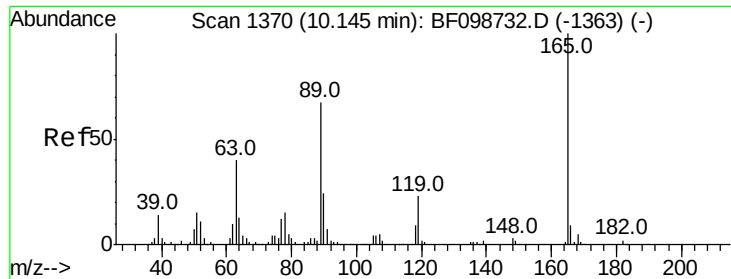


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#56

2,4-Dinitrotoluene

Concen: 6.051 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.22 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 26137

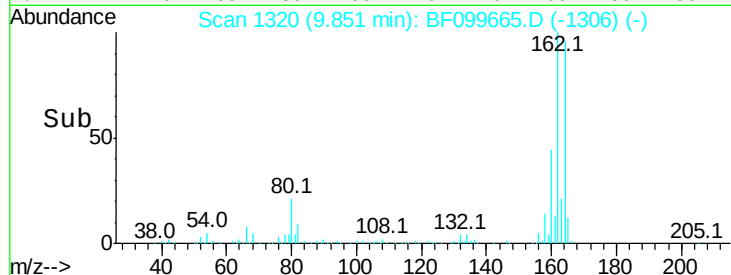
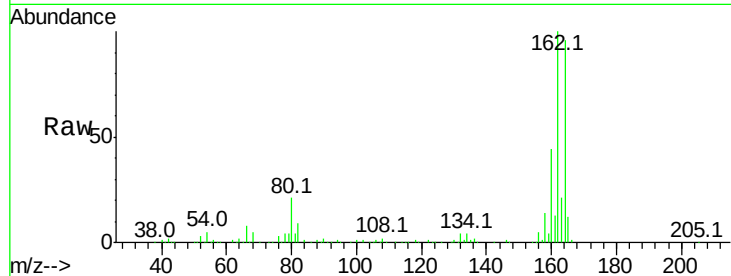
Ion Ratio Lower Upper

165 100

63 1.1 36.4 54.6#

89 1.4 57.8 86.6#

182 0.0 1.6 2.4#

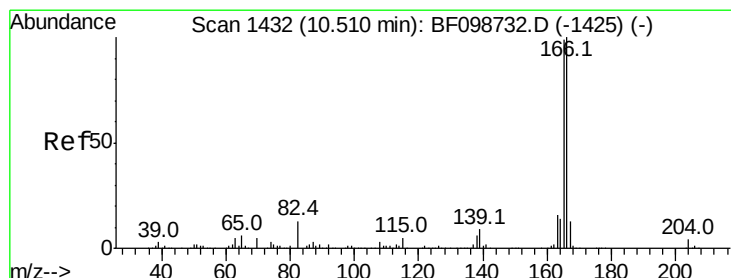
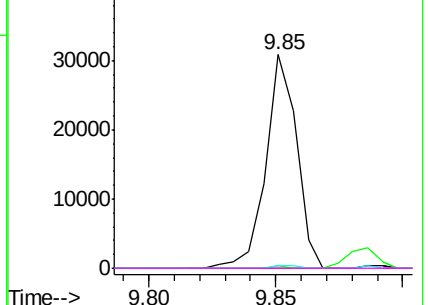


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 3.108 ng

RT: 10.40 min Scan# 1413

Delta R.T. -0.02 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

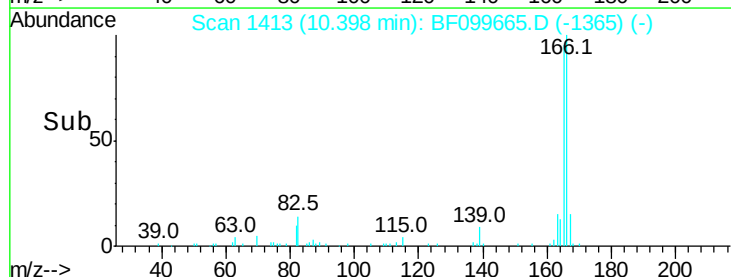
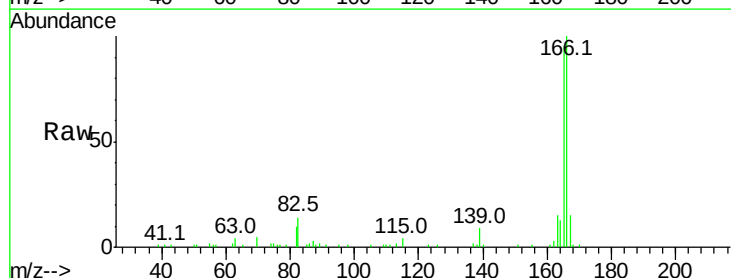
Tgt Ion:166 Resp: 42157

Ion Ratio Lower Upper

166 100

165 95.0 79.8 119.8

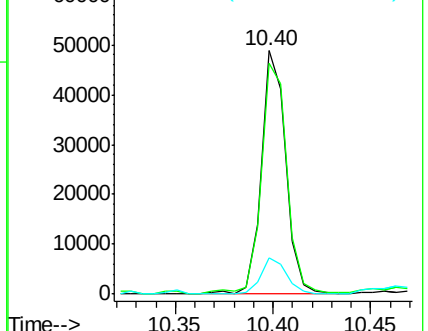
167 14.7 10.6 16.0

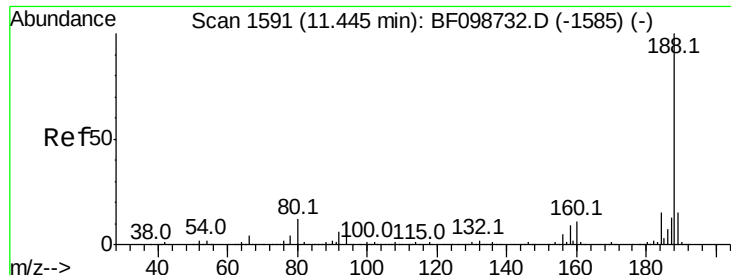


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

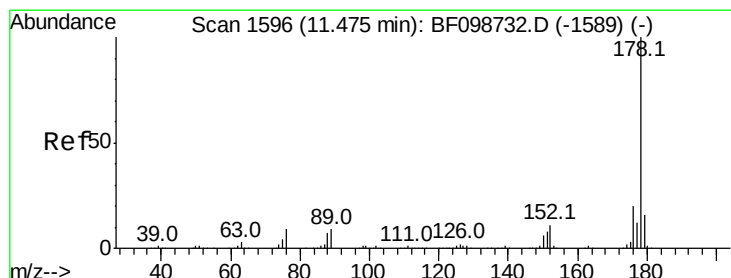
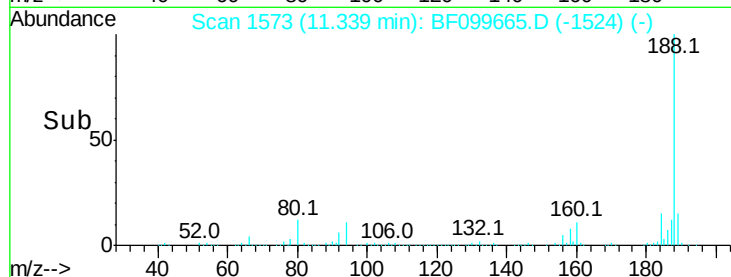
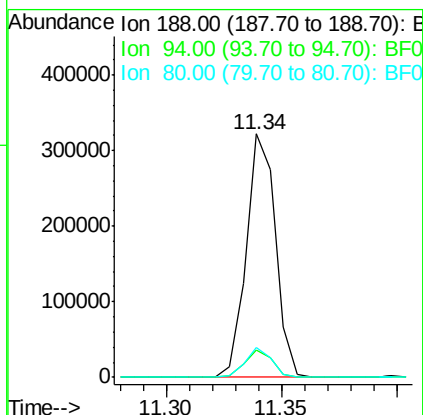
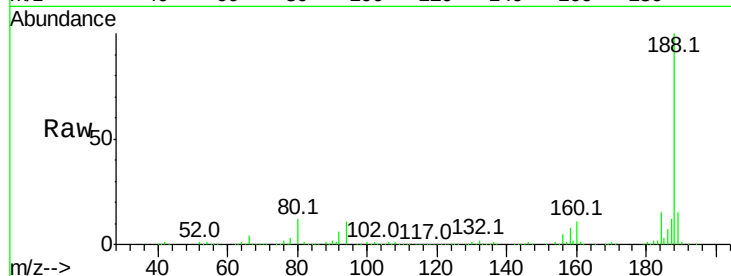




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: BF099665.D
 Acq: 19 Oct 2017 19:03

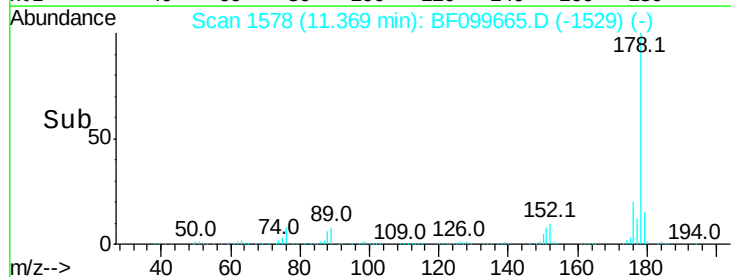
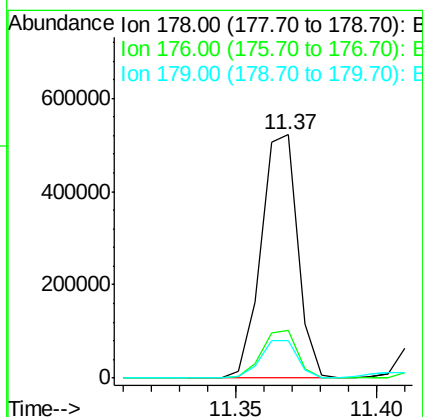
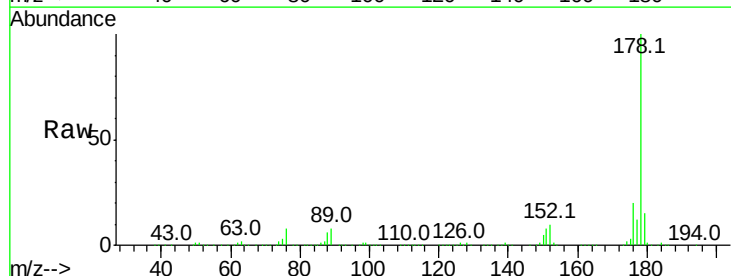
Instrument :
 BNA_F
 ClientSampleId :

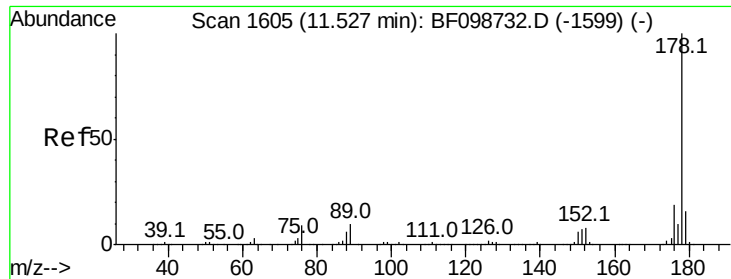
Tot Ion:188 Resp: 285095
 Ion Ratio Lower Upper
 188 100
 94 11.5 8.5 12.7
 80 12.0 9.2 13.8



#70
 Phenanthrene
 Concen: 30.822 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. -0.01 min
 Lab File: BF099665.D
 Acq: 19 Oct 2017 19:03

Tgt Ion:178 Resp: 470355
 Ion Ratio Lower Upper
 178 100
 176 19.8 15.8 23.8
 179 15.5 13.0 19.6

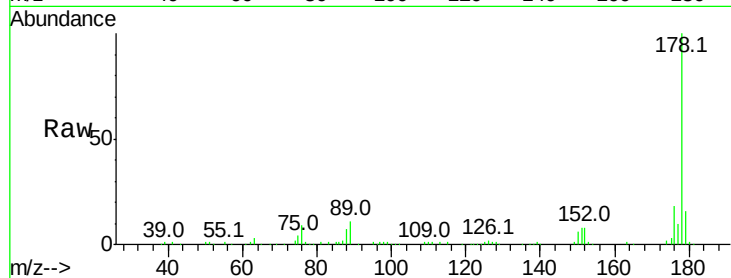




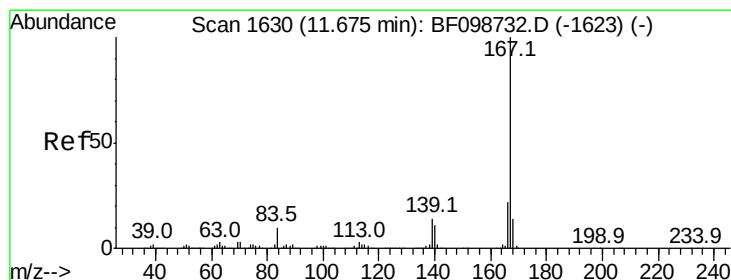
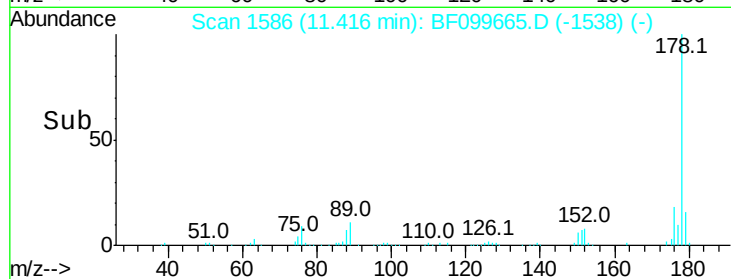
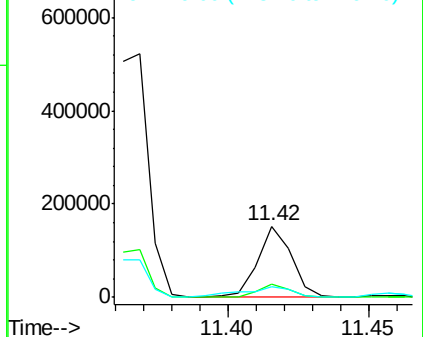
#71
 Anthracene
 Concen: 8.012 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.02 min
 Lab File: BF099665.D
 Acq: 19 Oct 2017 19:03

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 125104
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.4 23.2
 179 15.9 12.6 19.0

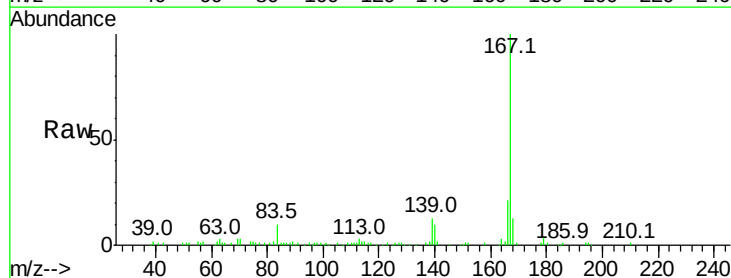


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

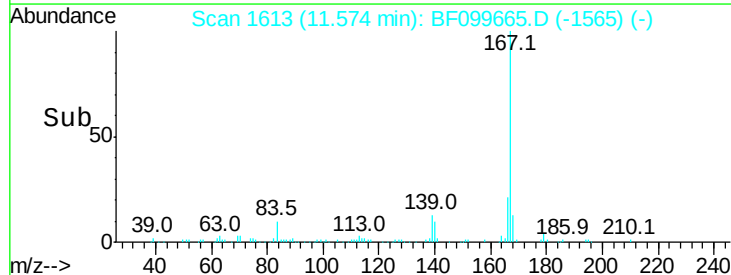
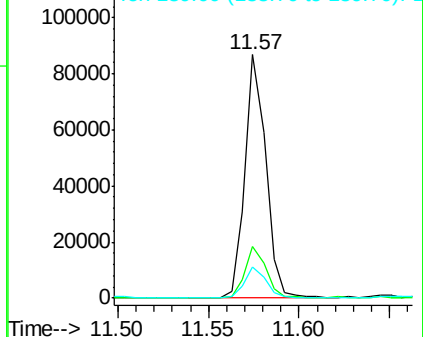


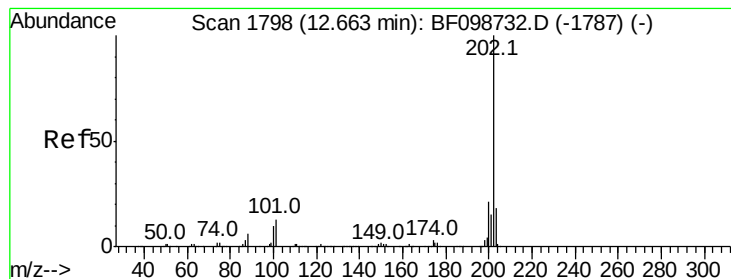
#72
 Carbazole
 Concen: 4.565 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. -0.02 min
 Lab File: BF099665.D
 Acq: 19 Oct 2017 19:03

Tgt Ion:167 Resp: 69808
 Ion Ratio Lower Upper
 167 100
 166 21.1 17.6 26.4
 139 13.0 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: 37.568 ng

RT: 12.56 min Scan# 1780

Delta R.T. -0.01 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

Instrument :

BNA_F

ClientSampleId :

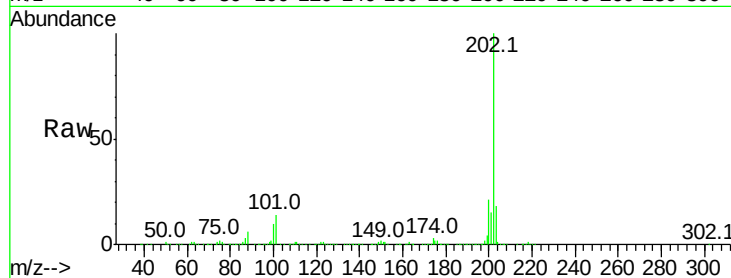
Tot Ion:202 Resp: 580533

Ion Ratio Lower Upper

202 100

101 13.6 0.0 34.1

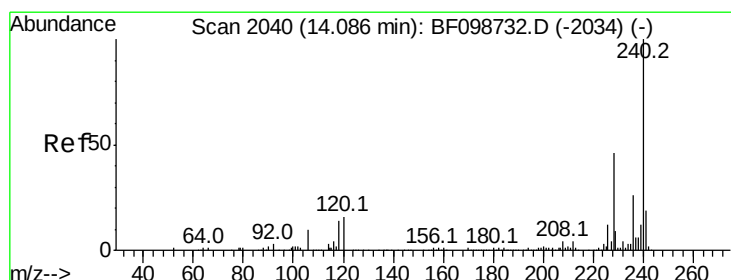
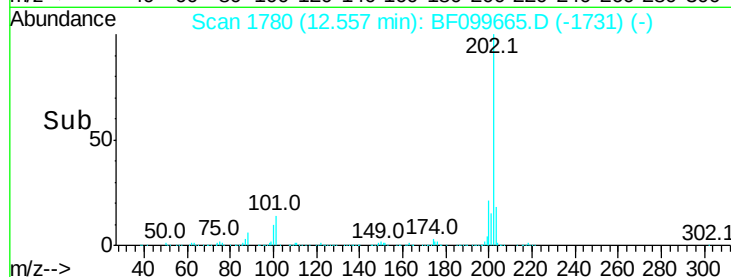
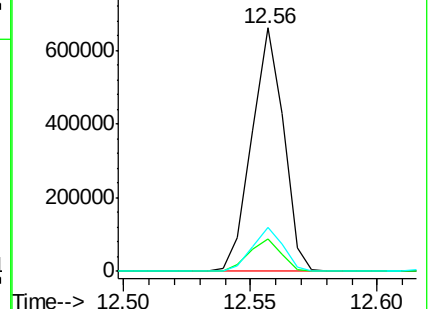
203 17.8 0.0 38.1



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: 13.99 min Scan# 2023

Delta R.T. -0.01 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

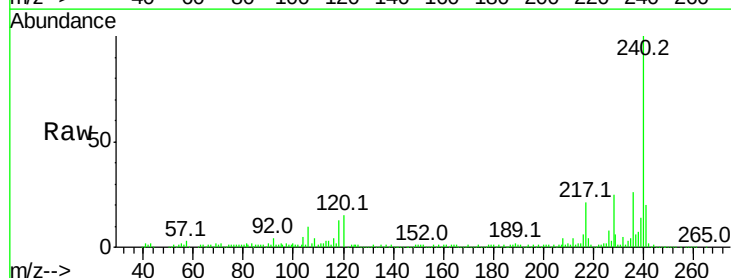
Tgt Ion:240 Resp: 206865

Ion Ratio Lower Upper

240 100

120 14.7 9.5 14.3#

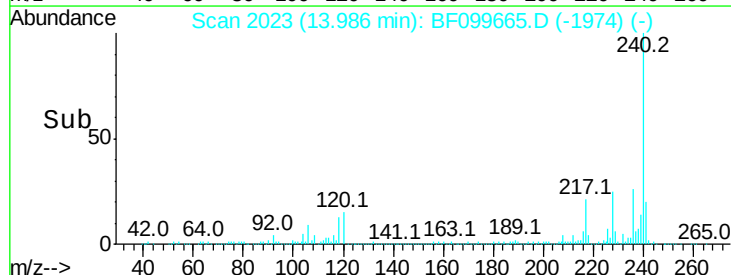
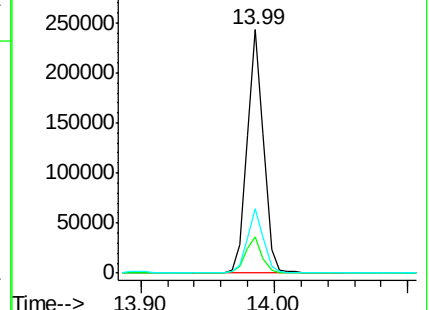
236 26.4 20.7 31.1

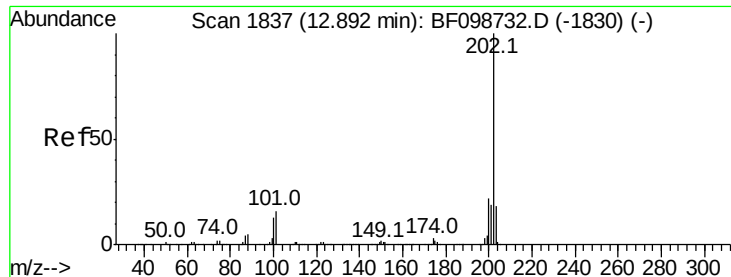


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 30.844 ng

RT: 12.79 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

Instrument :

BNA_F

ClientSampleId :

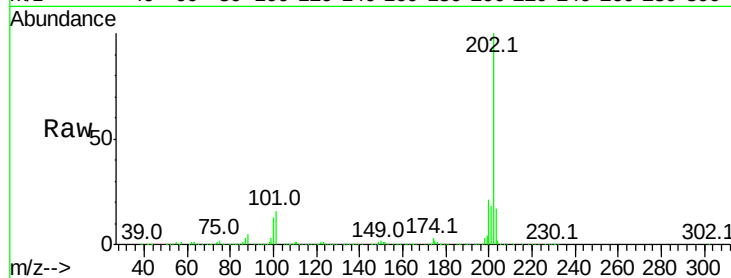
Tot Ion:202 Resp: 486539

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

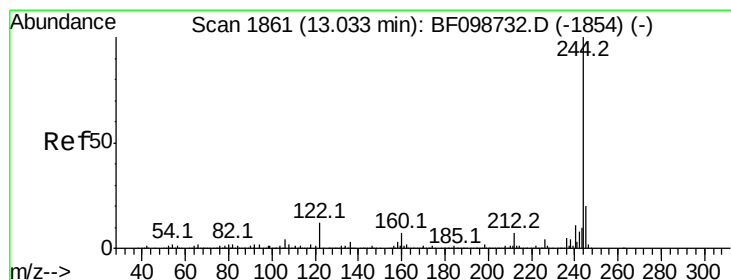
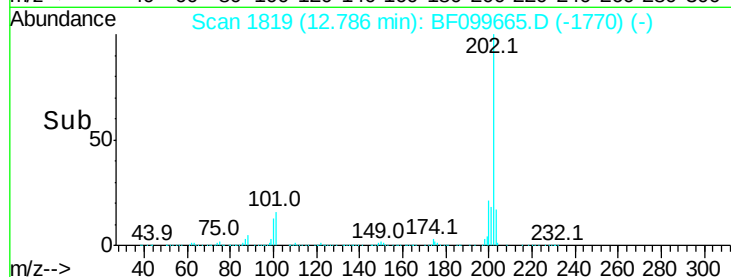
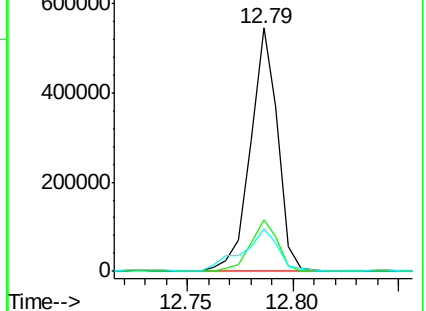
203 17.5 14.3 21.5



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: 3.645 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.02 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

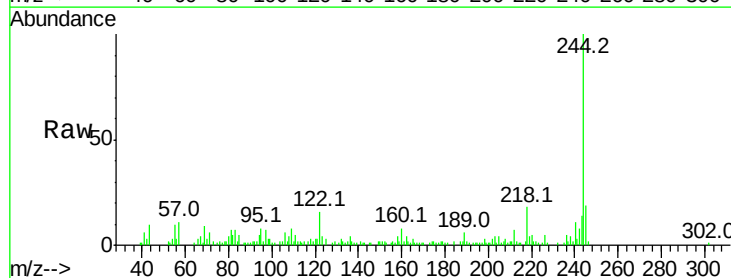
Tgt Ion:244 Resp: 33160

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

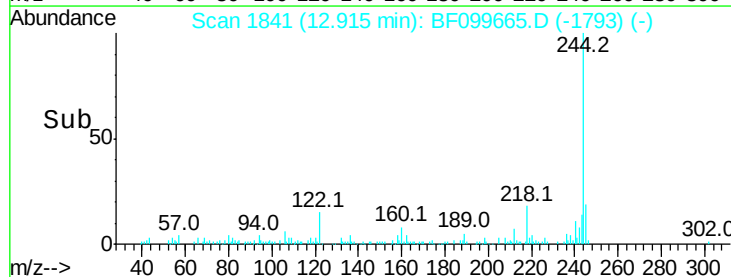
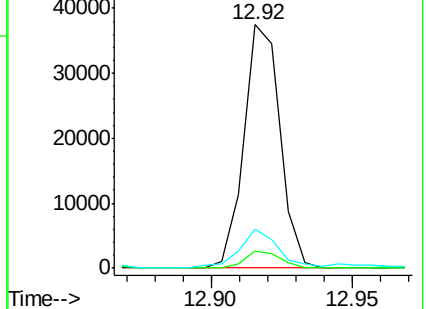
122 15.9 11.0 16.4

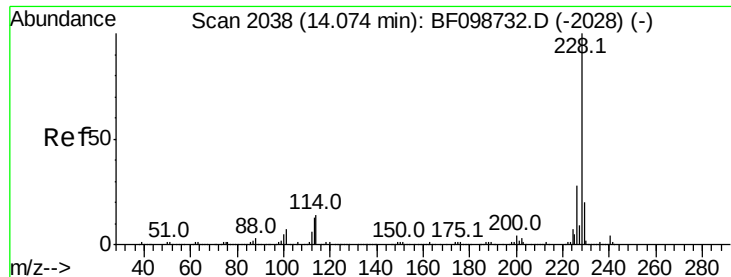


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 23.264 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

Instrument :

BNA_F

ClientSampleId :

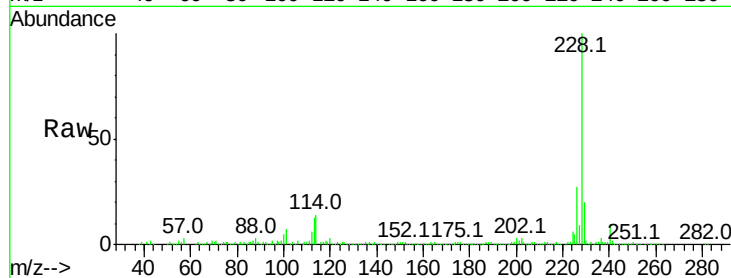
Tot Ion:228 Resp: 291404

Ion Ratio Lower Upper

228 100

226 27.2 22.6 33.8

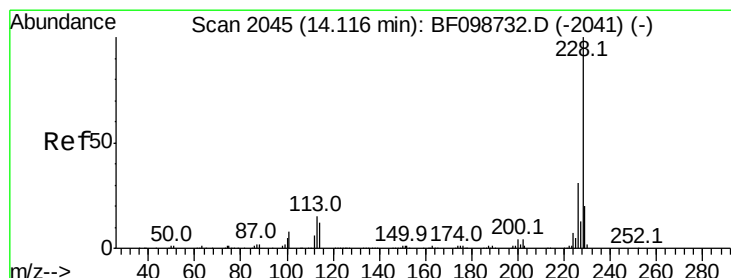
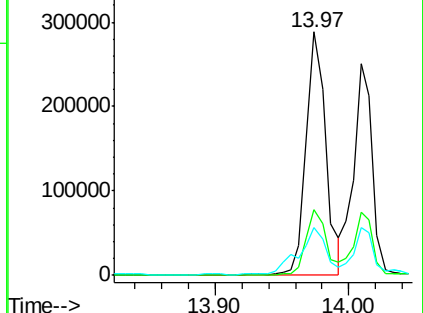
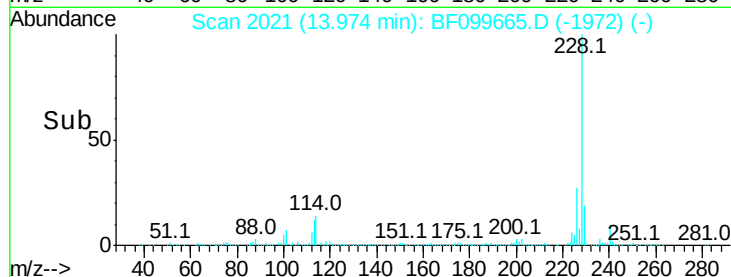
229 19.6 15.8 23.6



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: 20.614 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.02 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

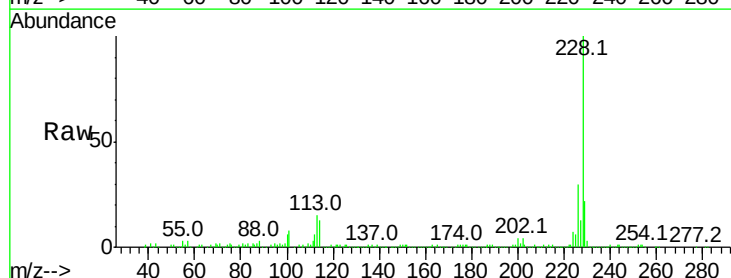
Tgt Ion:228 Resp: 245835

Ion Ratio Lower Upper

228 100

226 29.9 25.0 37.6

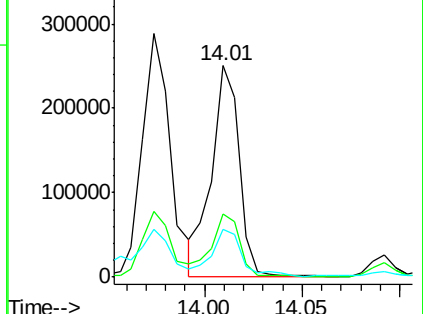
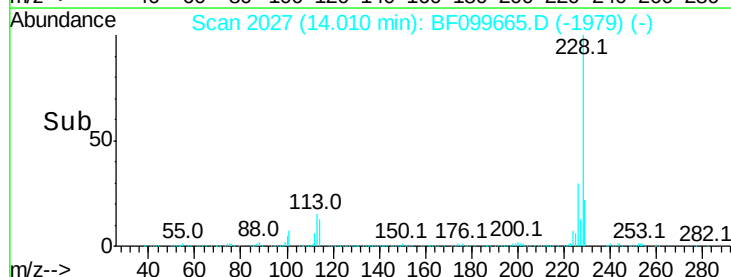
229 22.5 16.2 24.4

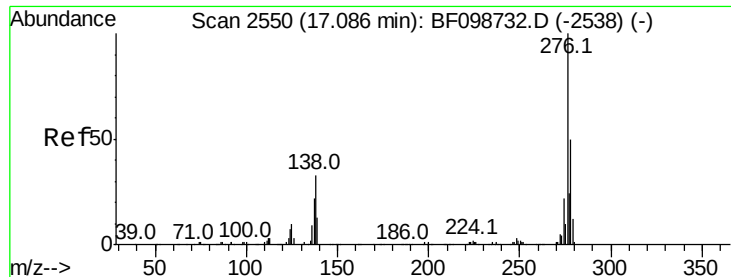


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

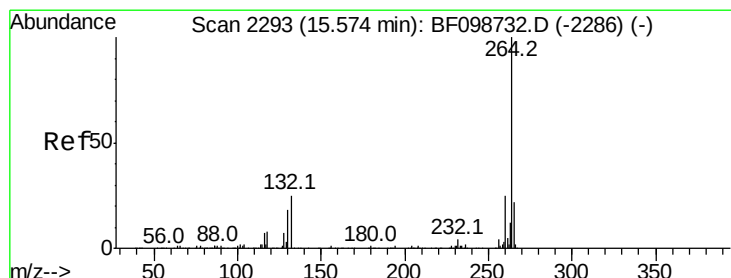
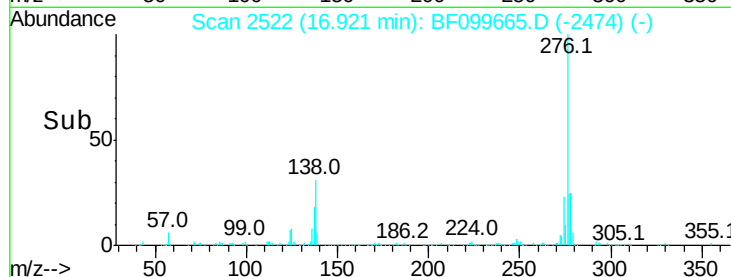
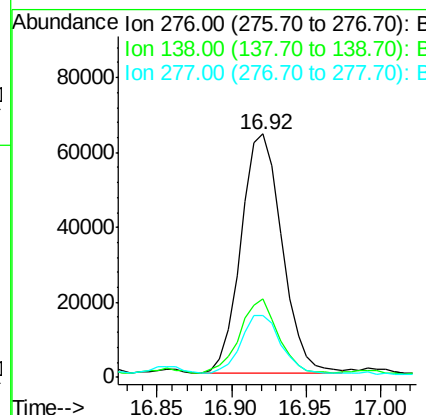
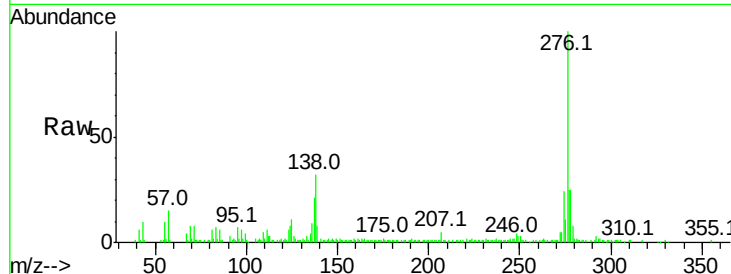




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.737 ng
 RT: 16.92 min Scan# 2522
 Delta R.T. -0.02 min
 Lab File: BF099665.D
 Acq: 19 Oct 2017 19:03

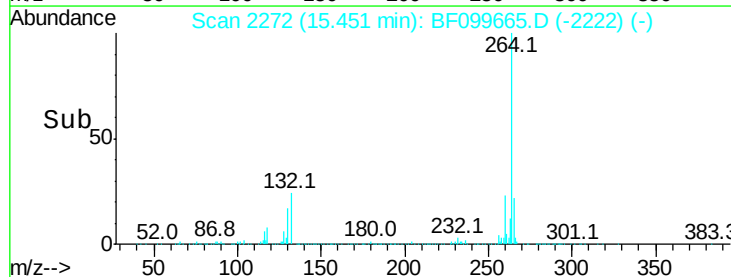
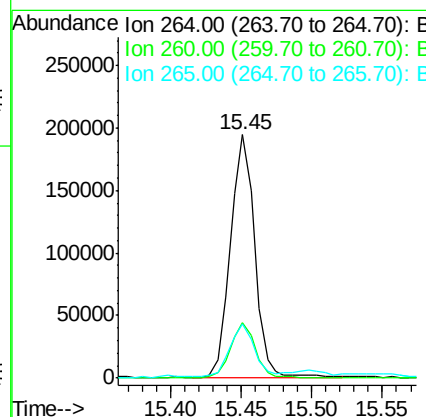
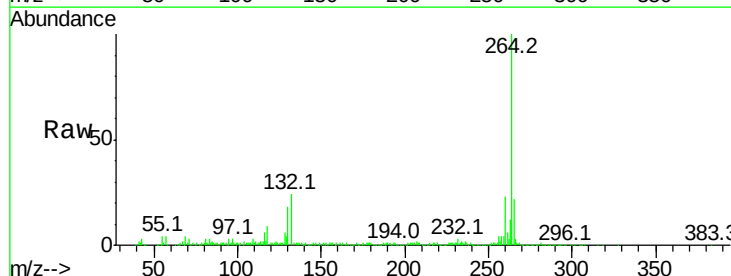
Instrument :
 BNA_F
 ClientSampleId :

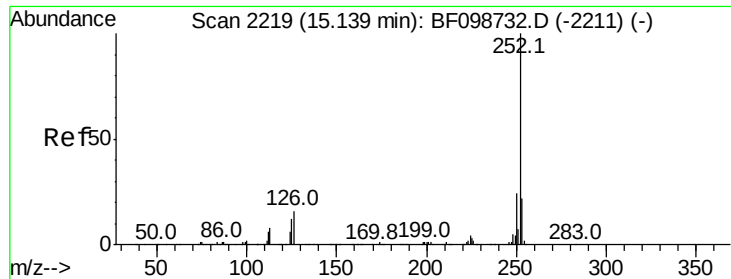
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.5	25.0	37.6
277	23.9	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.45 min Scan# 2272
 Delta R.T. -0.01 min
 Lab File: BF099665.D
 Acq: 19 Oct 2017 19:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.2	28.8
265	22.1	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 31.838 ng

RT: 15.03 min Scan# 2200

Delta R.T. -0.01 min

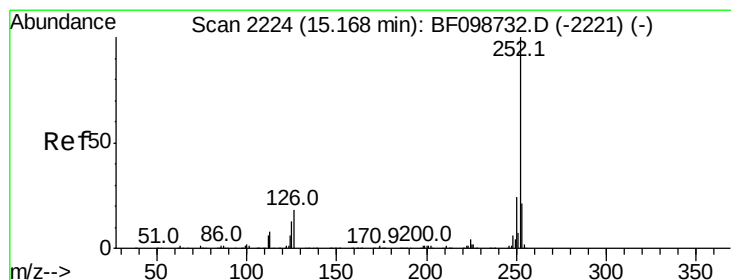
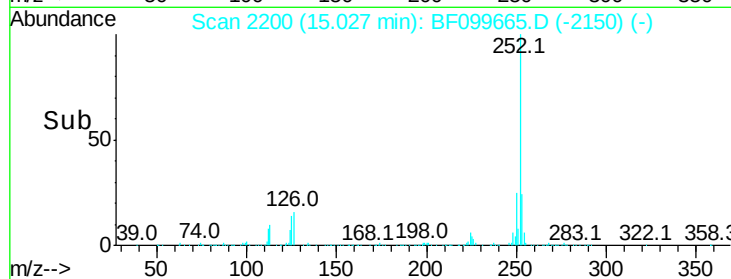
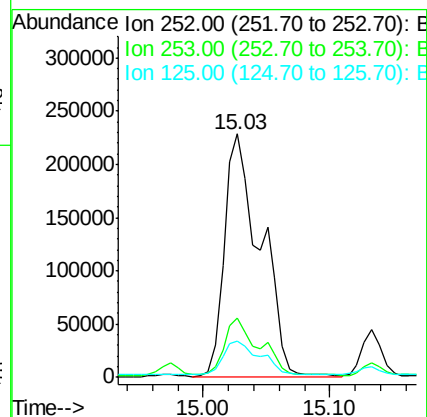
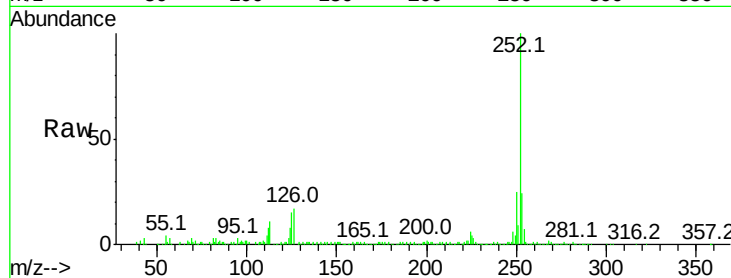
Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 448943

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.0	25.6
125	15.1	9.0	13.6#



#88

Benzo(k)fluoranthene

Concen: 32.228 ng

RT: 15.03 min Scan# 2200

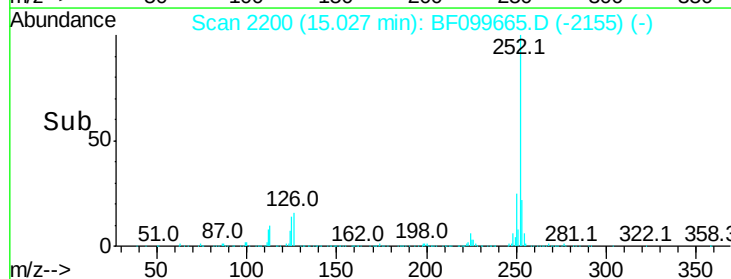
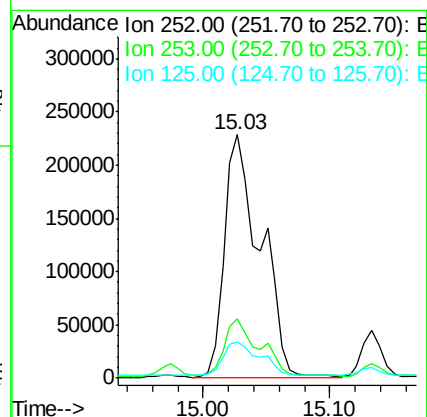
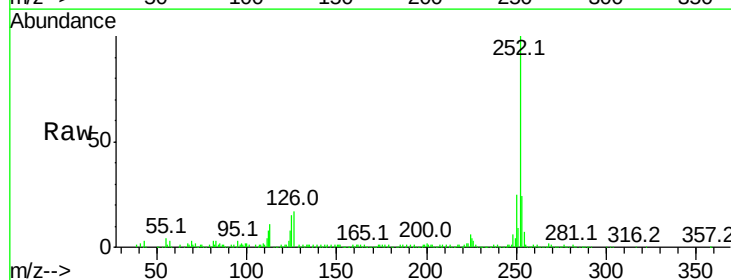
Delta R.T. -0.03 min

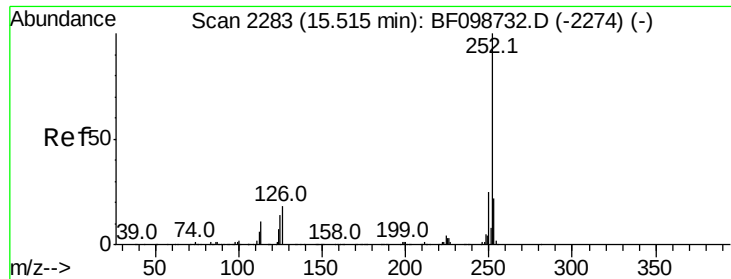
Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

Tgt Ion:252 Resp: 448855

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.9	26.9
125	15.1	10.2	15.2

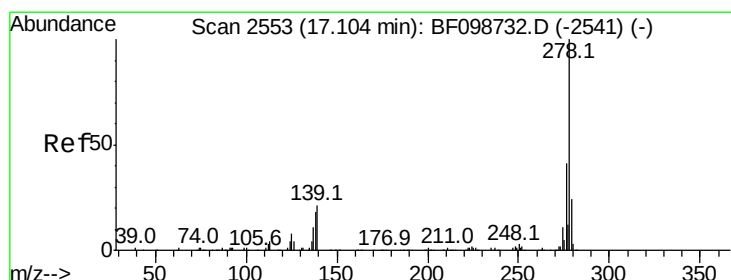
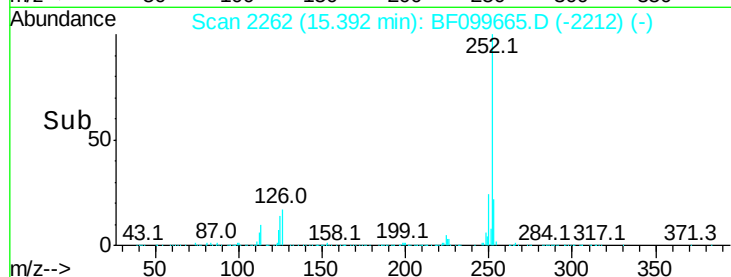
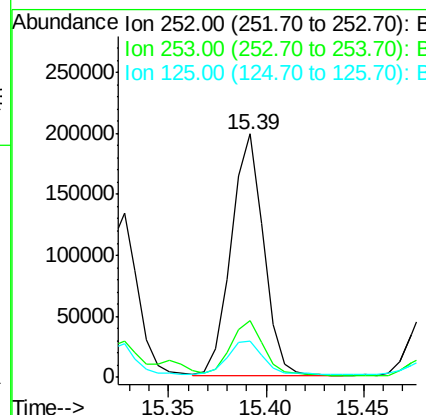
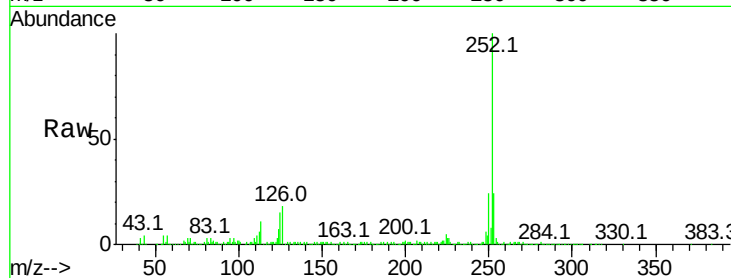




#89
Benzo(a)pyrene
Concen: 17.784 ng
RT: 15.39 min Scan# 2262
Delta R.T. -0.01 min
Lab File: BF099665.D
Acq: 19 Oct 2017 19:03

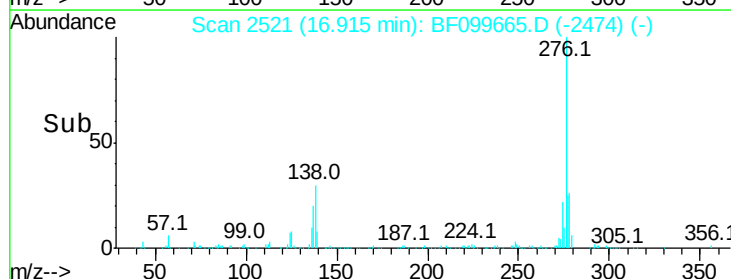
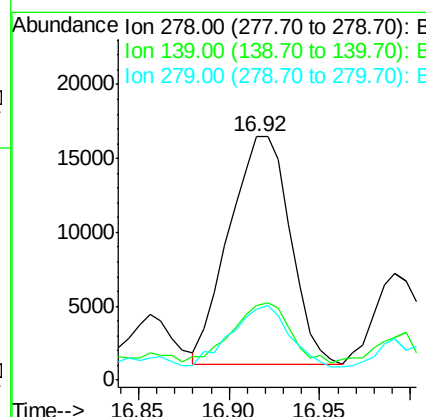
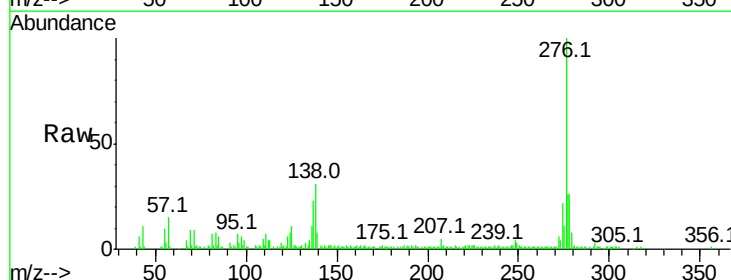
Instrument :
BNA_F
ClientSampleId :

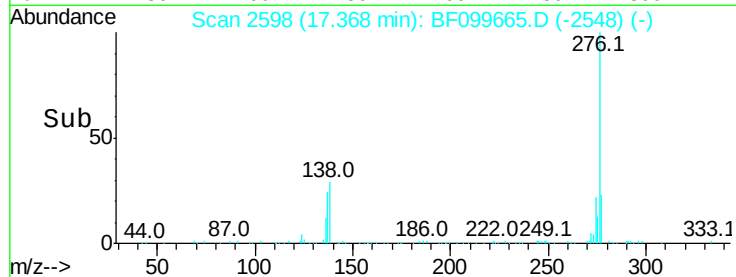
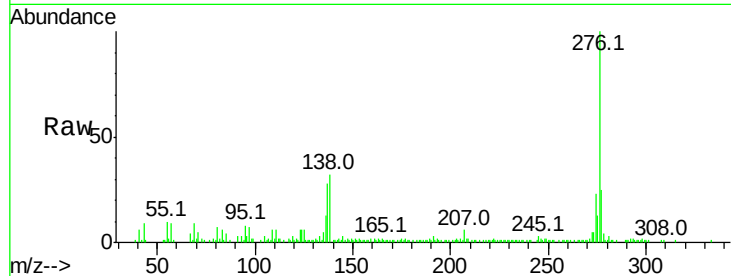
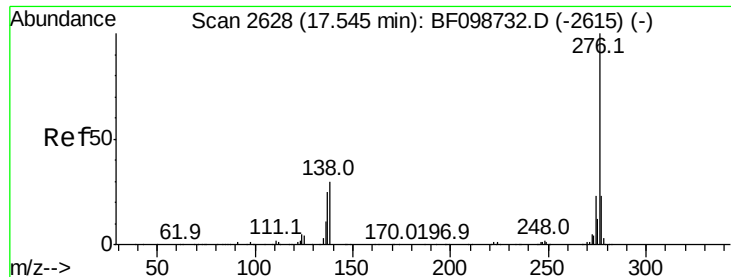
Tot Ion:252 Resp: 230191
Ion Ratio Lower Upper
252 100
253 23.5 17.1 25.7
125 15.0 9.8 14.6#



#90
Dibenzo(a,h)anthracene
Concen: 3.485 ng
RT: 16.92 min Scan# 2521
Delta R.T. -0.02 min
Lab File: BF099665.D
Acq: 19 Oct 2017 19:03

Tgt Ion:278 Resp: 36100
Ion Ratio Lower Upper
278 100
139 30.6 15.9 23.9#
279 28.9 19.0 28.4#





#91

Benzo(a,h,i)perylene

Concen: 10.740 ng

RT: 17.37 min Scan# 2598

Delta R.T. -0.01 min

Lab File: BF099665.D

Acq: 19 Oct 2017 19:03

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 276 Resp: 109969

Ion Ratio Lower Upper

276 100

277 25.0 17.9 26.9

138 32.1 21.8 32.8

