

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061918\
 Data File : BF106618.D
 Acq On : 20 Jun 2018 9:02
 Operator : JU/SJ
 Sample : J3249-05DL 25X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 20 09:23:29 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 19 14:32:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	91012	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	320831	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	127703	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	223807	20.00	ng	0.00
75) Chrysene-d12	14.15	240	254934	20.00	ng	0.00
86) Perylene-d12	15.69	264	185452	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.60	112	21649	4.03	ng	0.00
7) Phenol-d6	6.60	99	28143	4.19	ng	-0.01
23) Nitrobenzene-d5	7.52	82	15300	2.65	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	4637	3.13	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	31968	-12.72	ng	-0.01
78) Terphenyl-d14	13.08	244	34746	3.30	ng	0.00

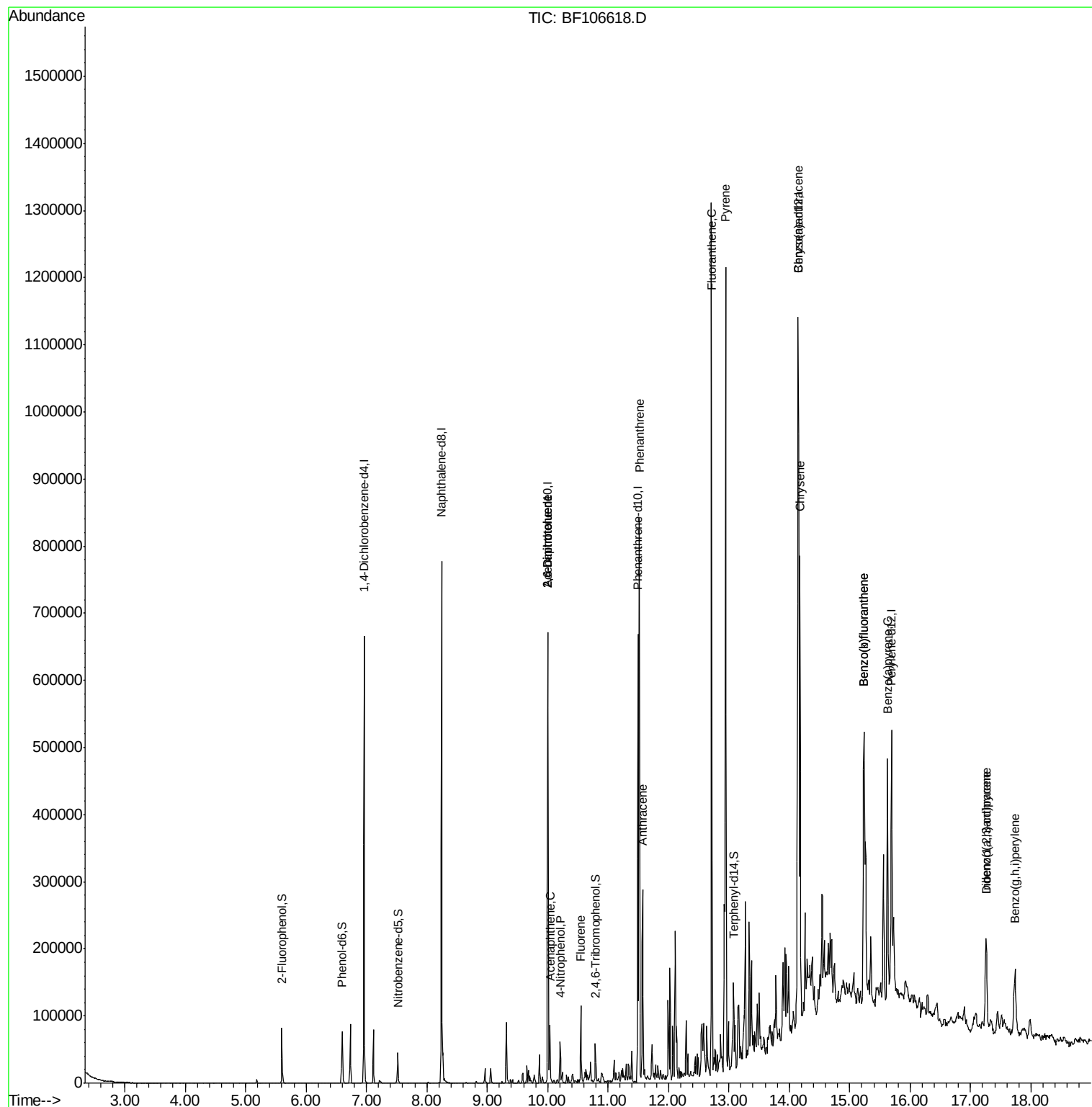
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
50) 2,6-Dinitrotoluene	10.00	165	16449	8.110	ng	# 24
51) Acenaphthene	10.04	154	17467	2.193	ng	100
55) 4-Nitrophenol	10.21	139	8150	5.003	ng	# 10
56) 2,4-Dinitrotoluene	10.00	165	16449	6.213	ng	# 21
57) Fluorene	10.55	166	34062	3.936	ng	98
70) Phenanthrene	11.52	178	299188	27.716	ng	99
71) Anthracene	11.57	178	103393	9.384	ng	99
74) Fluoranthene	12.72	202	545624	45.859	ng	96
77) Pyrene	12.95	202	490455	29.174	ng	100
80) Benzo(a)anthracene	14.14	228	315907	20.332	ng	98
82) Chrysene	14.18	228	240837	16.848	ng	98
85) Indeno(1,2,3-cd)pyrene	17.25	276	86971	7.170	ng	# 92
87) Benzo(b)fluoranthene	15.24	252	350682	30.441	ng	97
88) Benzo(k)fluoranthene	15.24	252	350682	31.966	ng	# 97
89) Benzo(a)pyrene	15.62	252	175071	17.095	ng	96
90) Dibenzo(a,h)anthracene	17.26	278	22417	2.583	ng	93
91) Benzo(a,h,i)perylene	17.74	276	86071	10.146	ng	# 92

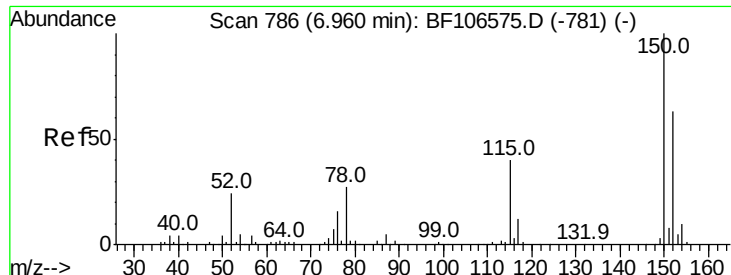
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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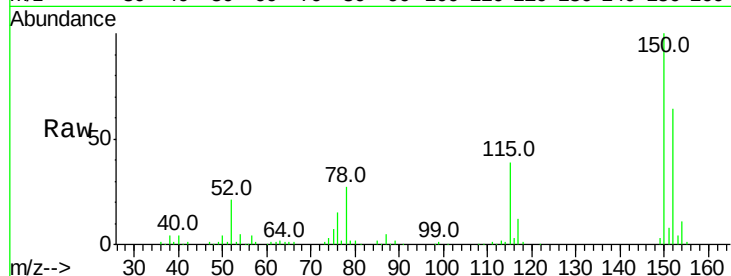


#1

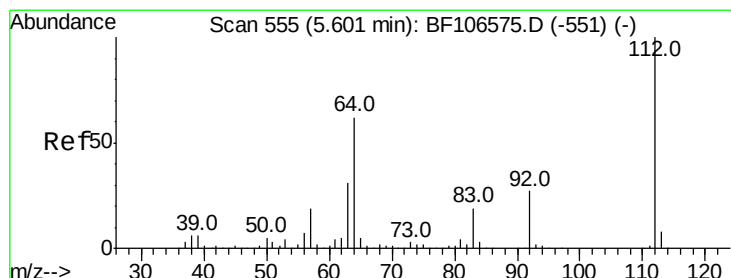
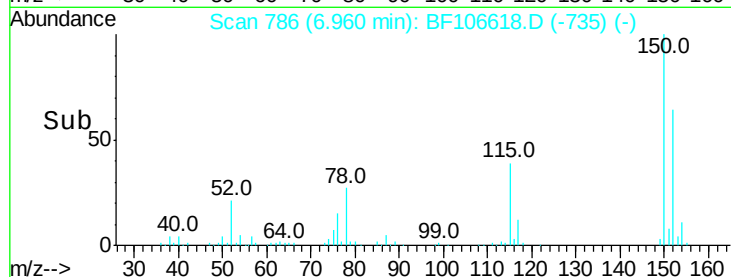
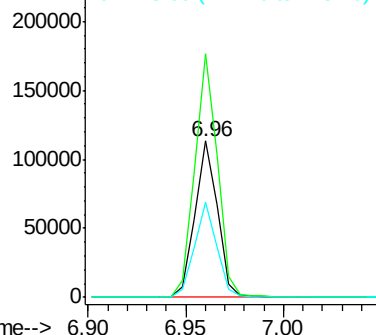
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. 0.00 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 91012
Ion Ratio Lower Upper
152 100
150 155.6 124.6 186.8
115 60.5 50.1 75.1



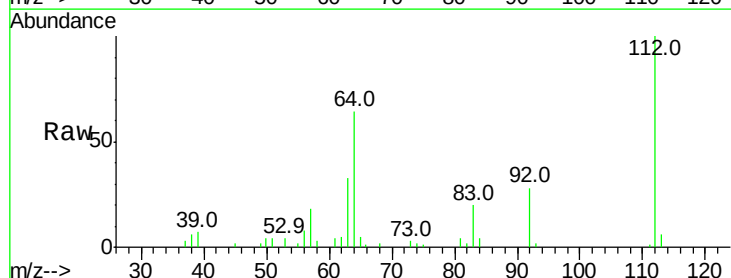
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



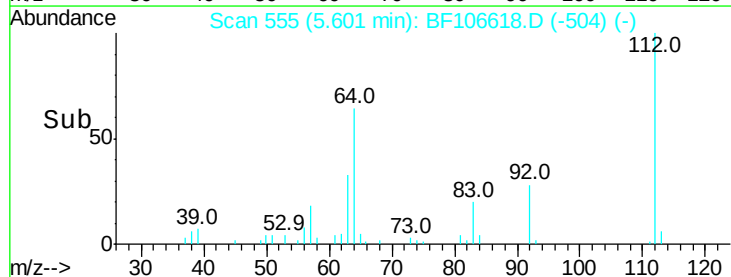
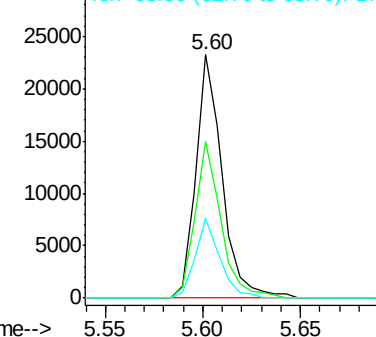
#5

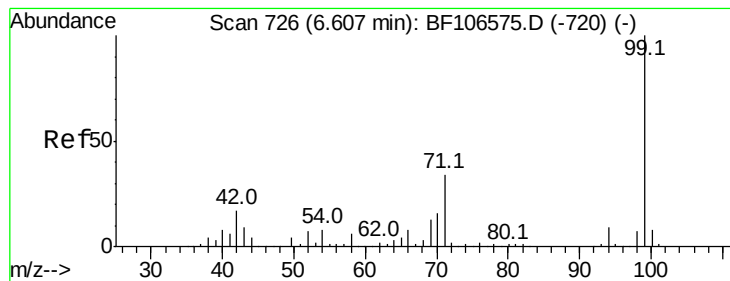
2-Fluorophenol
Concen: 4.028 ng
RT: 5.60 min Scan# 555
Delta R.T. 0.00 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

Tgt Ion:112 Resp: 21649
Ion Ratio Lower Upper
112 100
64 64.5 47.9 71.9
63 32.8 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 4.193 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

Instrument :

BNA_F

ClientSampleId :

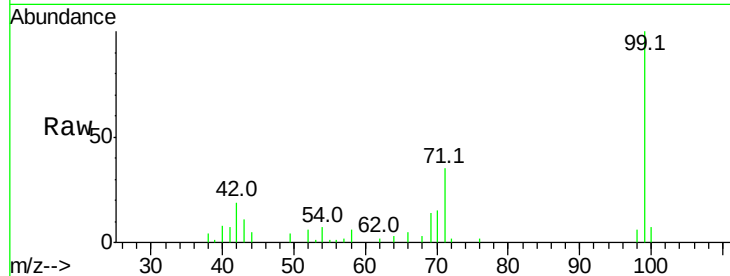
Tot Ion: 99 Resp: 28143

Ion Ratio Lower Upper

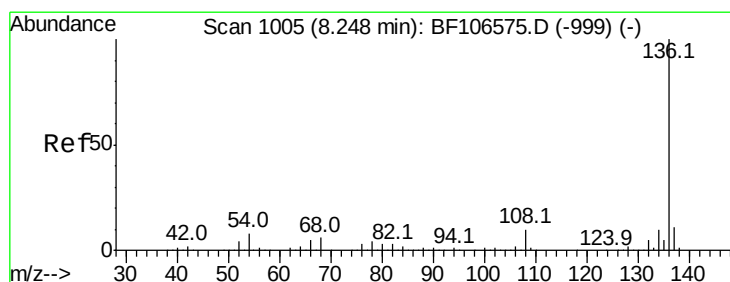
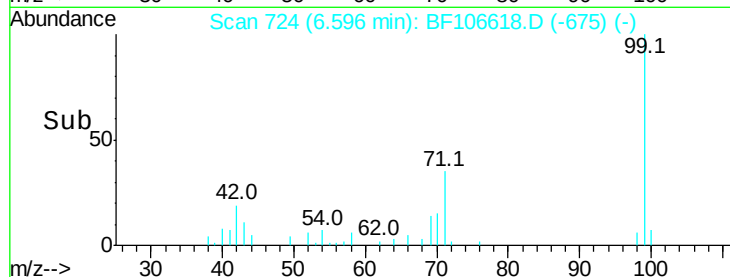
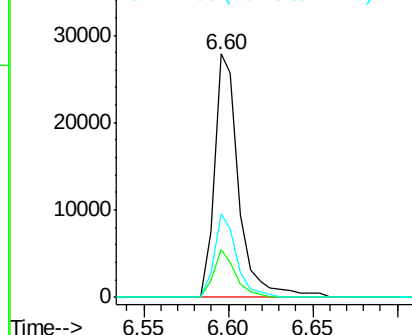
99 100

42 19.5 14.5 21.7

71 34.5 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: 8.24 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

Tgt Ion: 136 Resp: 320831

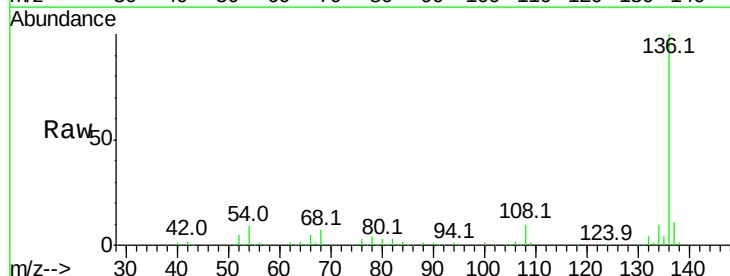
Ion Ratio Lower Upper

136 100

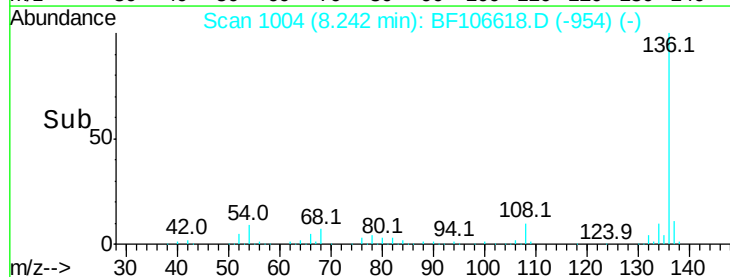
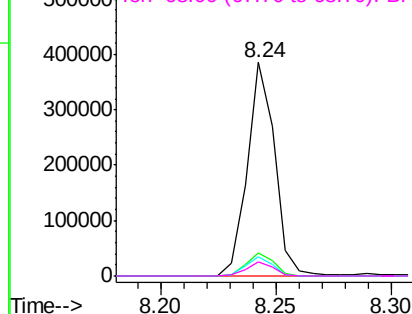
137 10.8 8.9 13.3

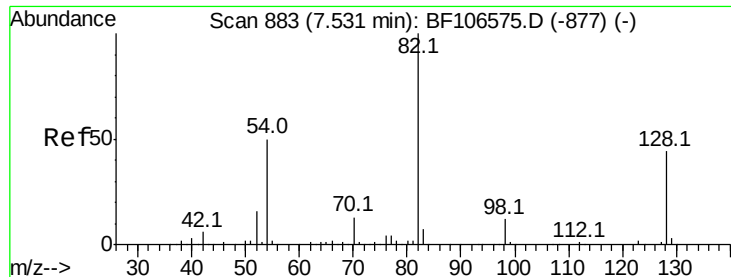
54 9.0 6.6 9.8

68 6.7 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

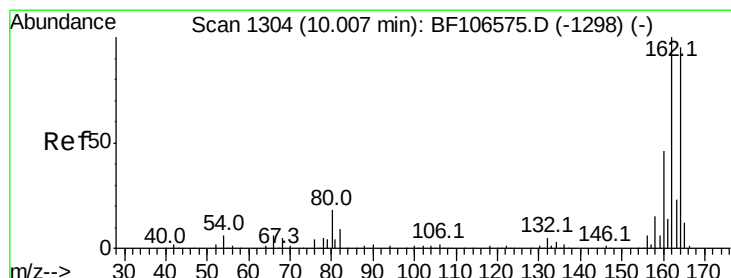
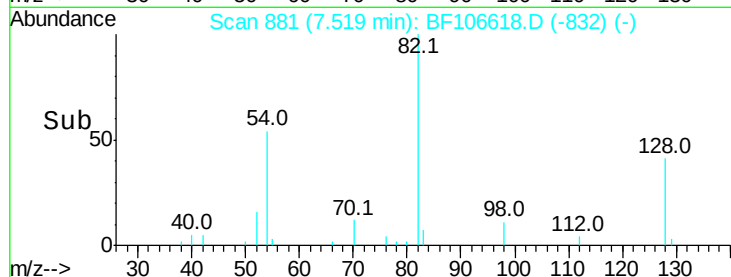
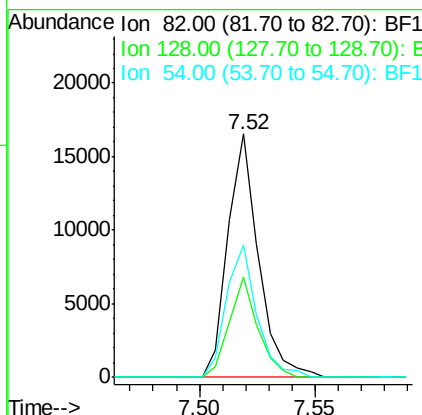
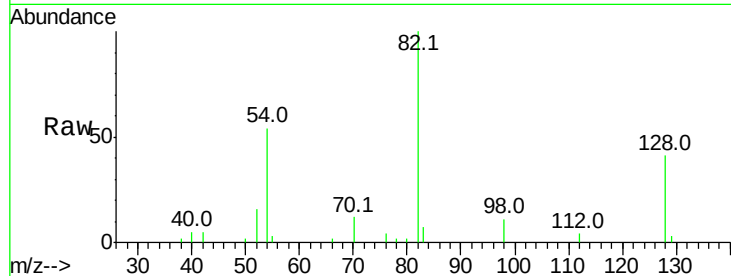




#23
 Nitrobenzene-d5
 Concen: 2.650 ng
 RT: 7.52 min Scan# 881
 Delta R.T. -0.01 min
 Lab File: BF106618.D
 Acq: 20 Jun 2018 9:02

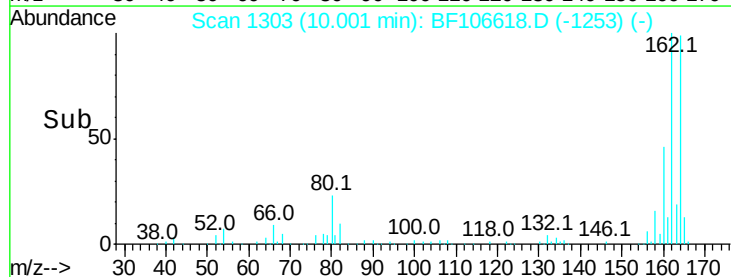
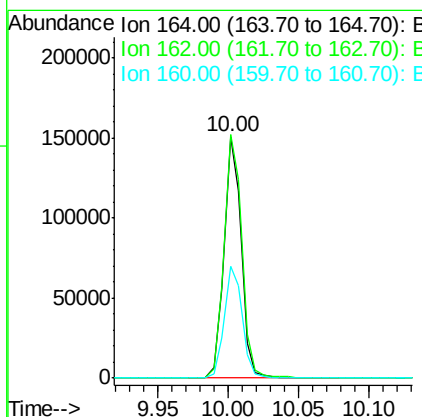
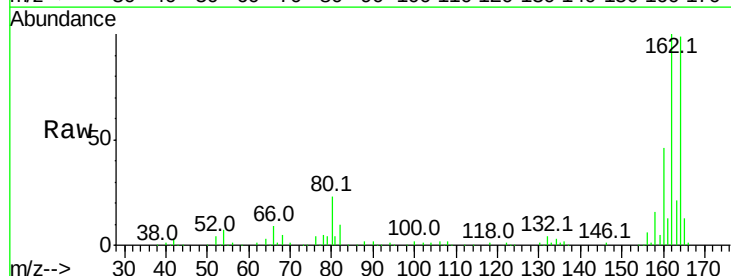
Instrument :
 BNA_F
 ClientSampled :

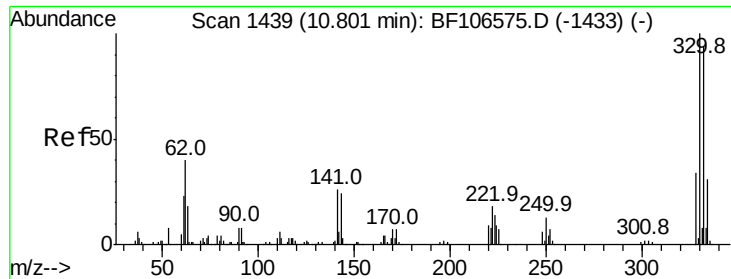
Tot Ion: 82 Resp: 15300
 Ion Ratio Lower Upper
 82 100
 128 41.4 36.1 54.1
 54 54.2 41.4 62.2



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: BF106618.D
 Acq: 20 Jun 2018 9:02

Tgt Ion: 164 Resp: 127703
 Ion Ratio Lower Upper
 164 100
 162 100.9 86.1 129.1
 160 46.4 38.3 57.5

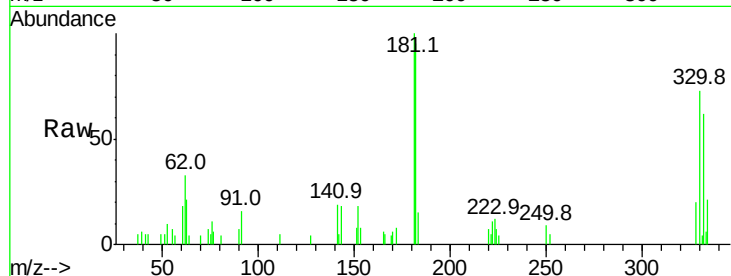




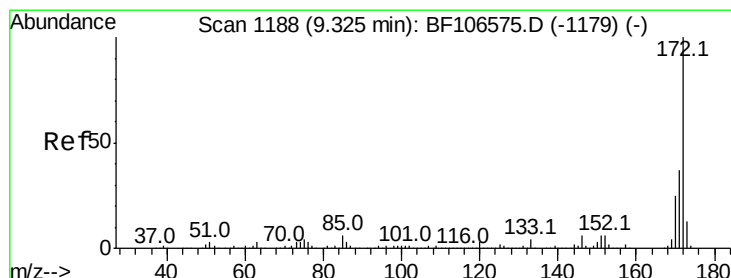
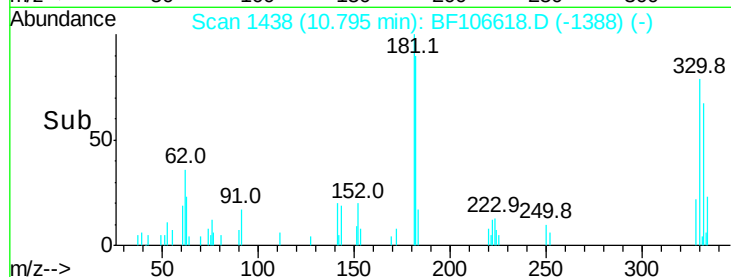
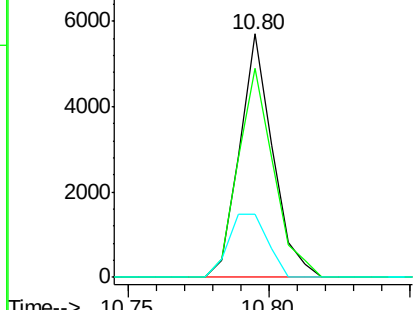
#41
 2,4,6-Tribromophenol
 Concen: 3.133 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF106618.D
 Acq: 20 Jun 2018 9:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 4637
 Ion Ratio Lower Upper
 330 100
 332 91.8 77.0 115.6
 141 30.9 29.9 44.9

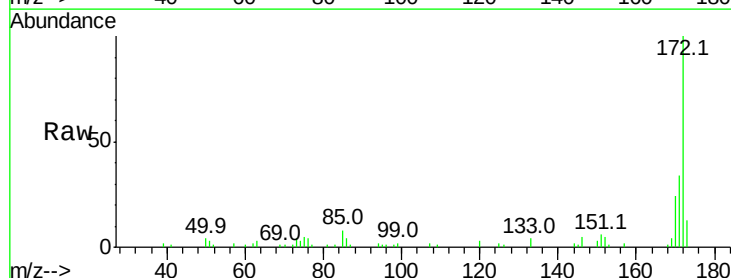


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

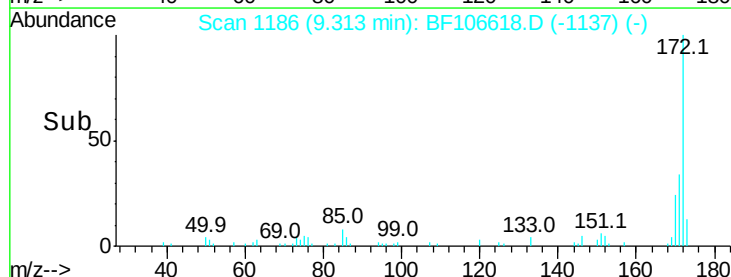
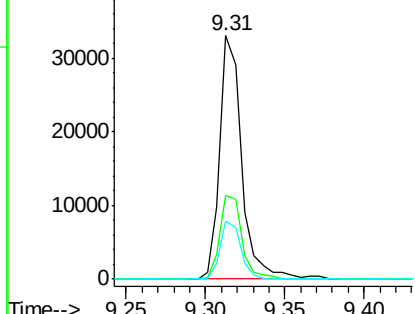


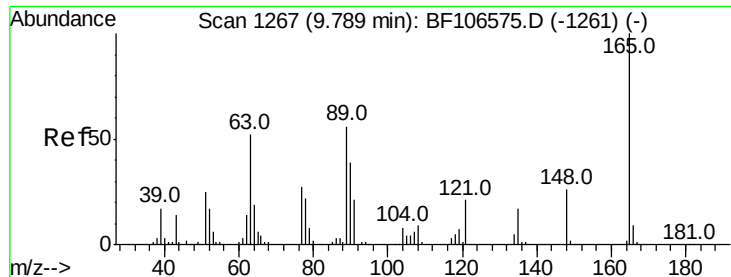
#44
 2-Fluorobiphenyl
 Concen: -12.722 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF106618.D
 Acq: 20 Jun 2018 9:02

Tgt Ion:172 Resp: 31968
 Ion Ratio Lower Upper
 172 100
 171 34.3 29.7 44.5
 170 23.9 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

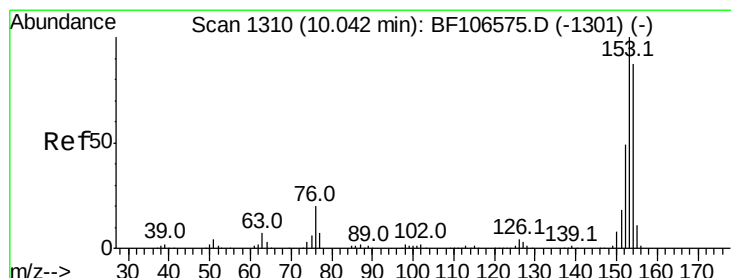
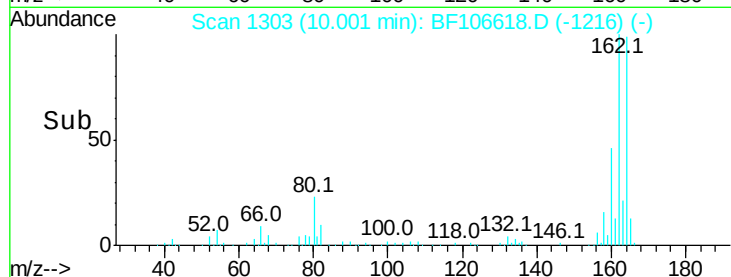
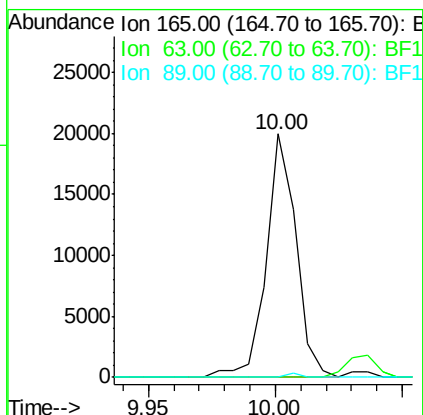
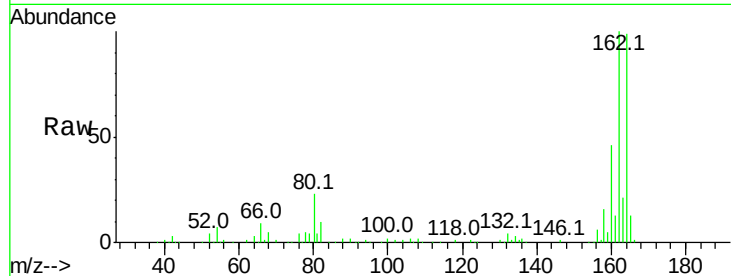




#50
2,6-Dinitrotoluene
Concen: 8.110 ng
RT: 10.00 min Scan# 1303
Delta R.T. 0.21 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

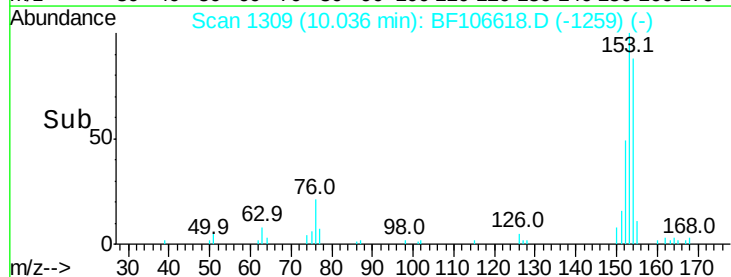
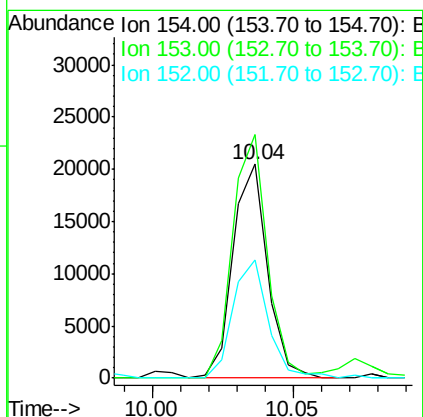
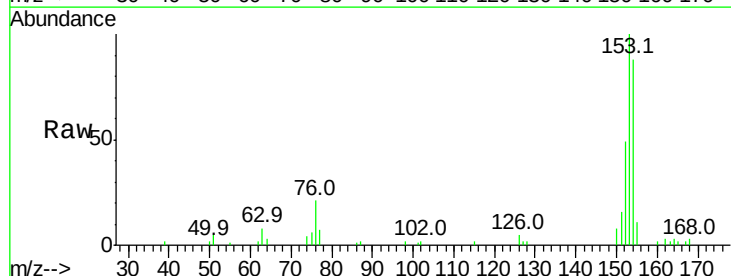
Instrument :
BNA_F
ClientSampleId :

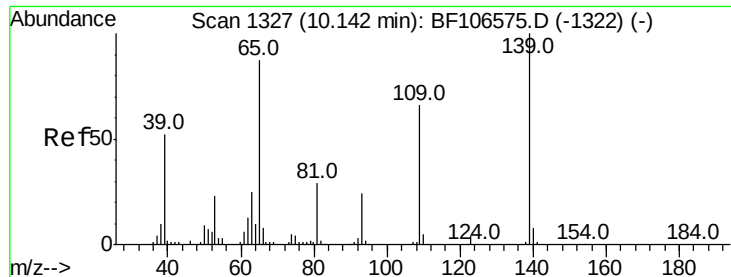
Tot Ion:165 Resp: 16449
Ion Ratio Lower Upper
165 100
63 0.0 44.7 67.1#
89 0.0 44.0 66.0#



#51
Acenaphthene
Concen: 2.193 ng
RT: 10.04 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

Tgt Ion:154 Resp: 17467
Ion Ratio Lower Upper
154 100
153 113.8 91.2 136.8
152 55.3 43.8 65.8

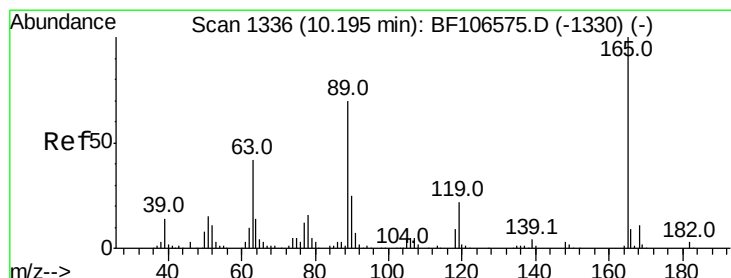
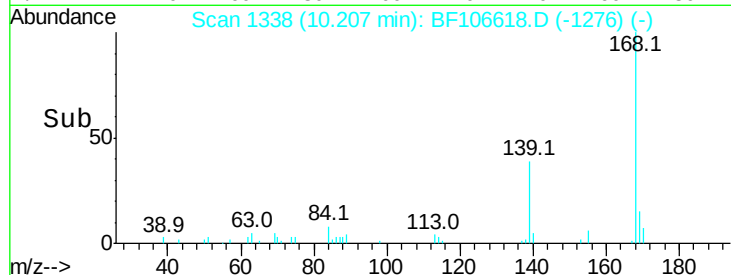
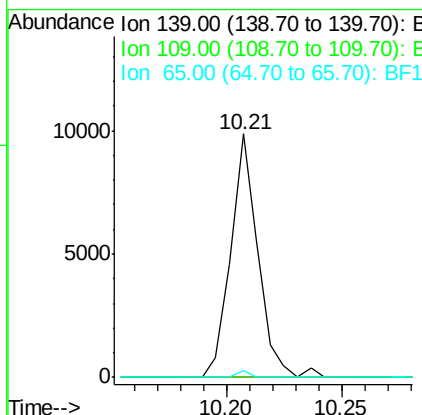
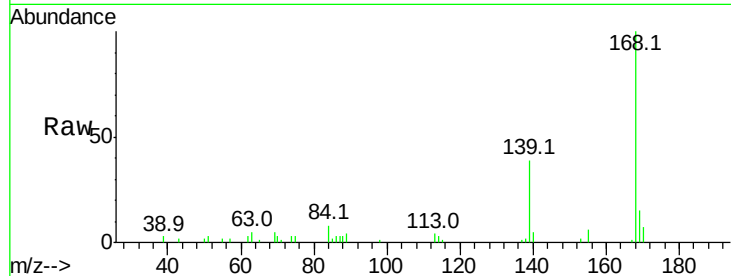




#55
4-Nitrophenol
Concen: 5.003 ng
RT: 10.21 min Scan# 1338
Delta R.T. 0.06 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

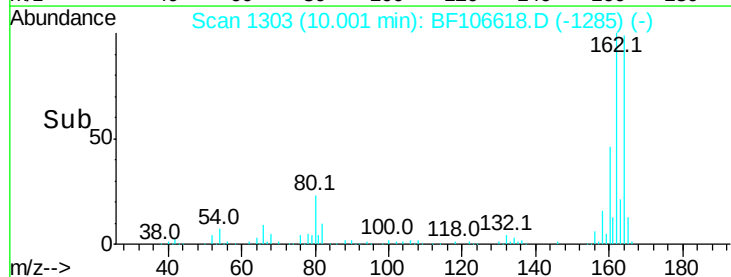
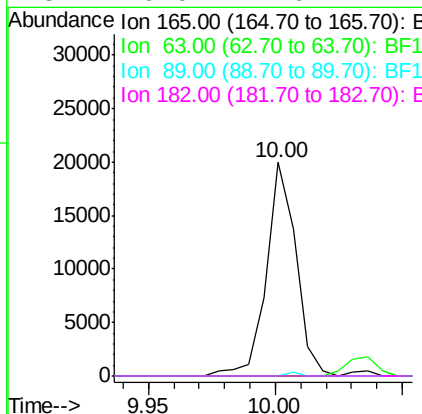
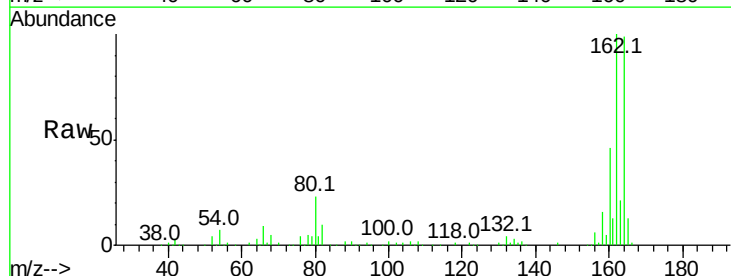
Instrument :
BNA_F
ClientSampled :

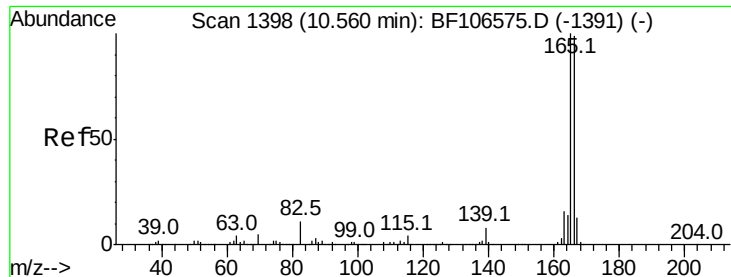
Tot Ion:139 Resp: 8150
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 3.0 72.6 112.6#



#56
2,4-Dinitrotoluene
Concen: 6.213 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.19 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

Tgt Ion:165 Resp: 16449
Ion Ratio Lower Upper
165 100
63 0.0 36.4 54.6#
89 0.0 57.8 86.6#
182 0.0 1.6 2.4#





#57

Fluorene

Concen: 3.936 ng

RT: 10.55 min Scan# 1396

Delta R.T. -0.01 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

Instrument :

BNA_F

ClientSampleId :

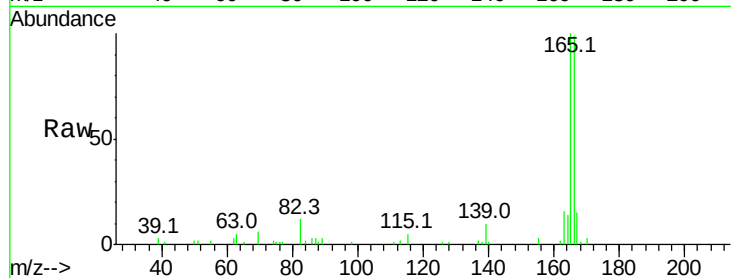
Tot Ion:166 Resp: 34062

Ion Ratio Lower Upper

166 100

165 101.3 79.8 119.8

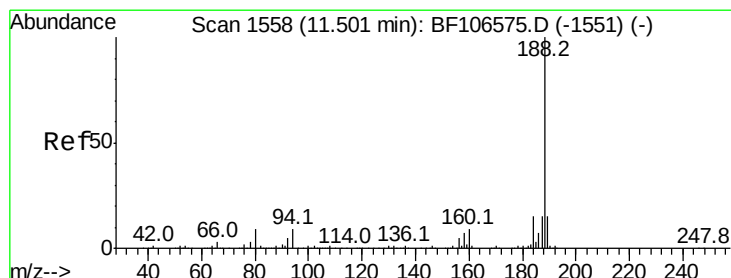
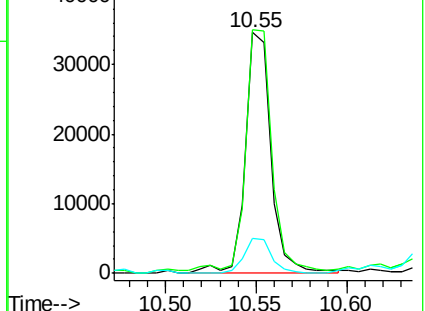
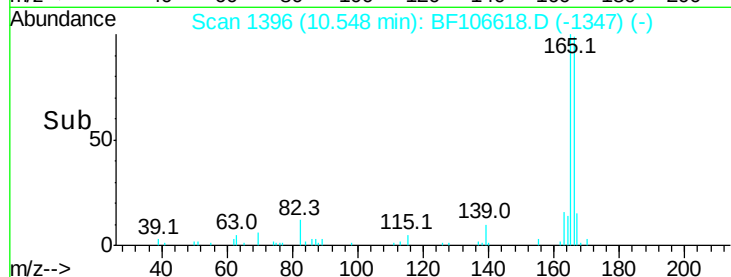
167 14.7 10.6 16.0



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: 11.50 min Scan# 1557

Delta R.T. -0.01 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

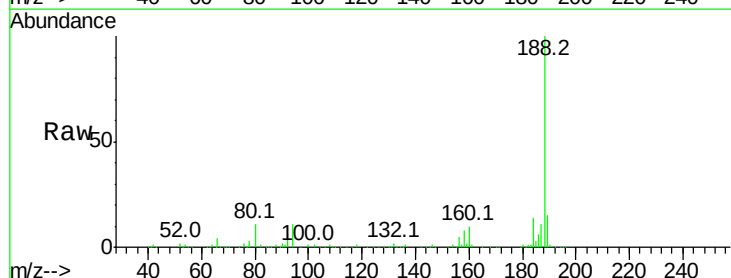
Tgt Ion:188 Resp: 223807

Ion Ratio Lower Upper

188 100

94 10.5 8.5 12.7

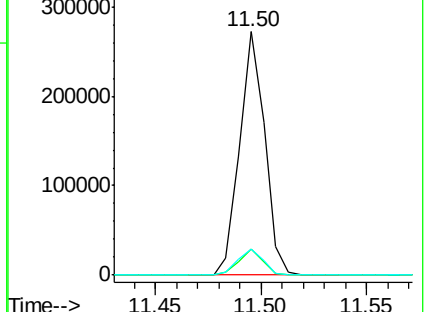
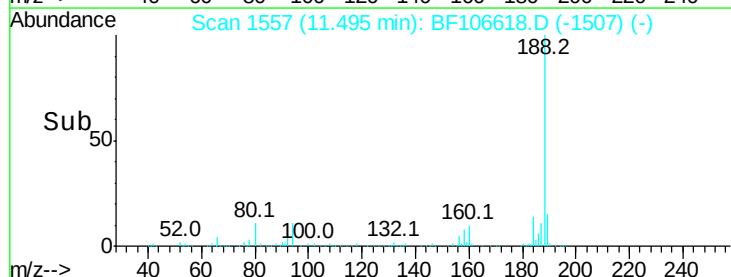
80 10.5 9.2 13.8

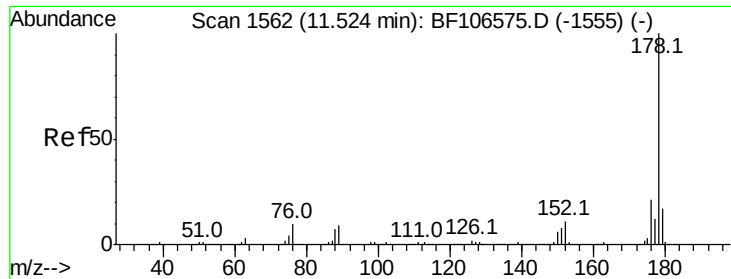


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

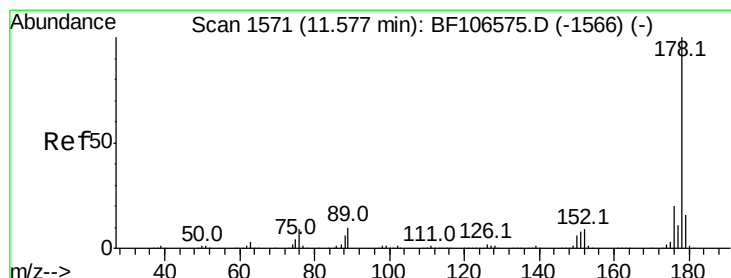
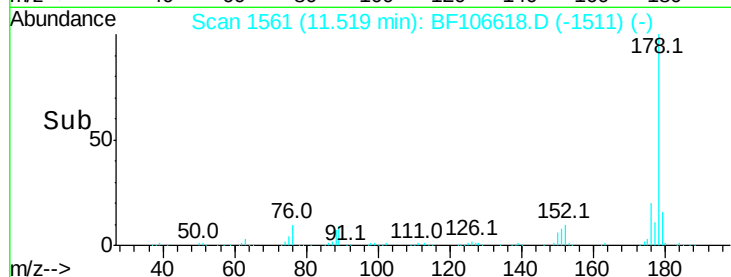
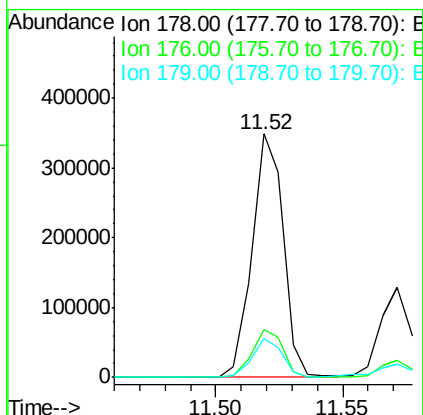
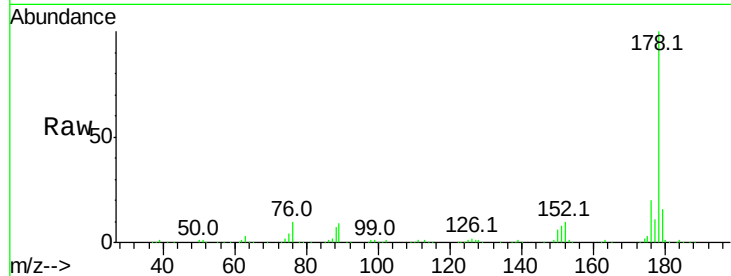




#70
Phenanthrene
Concen: 27.716 ng
RT: 11.52 min Scan# 1561
Delta R.T. -0.01 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

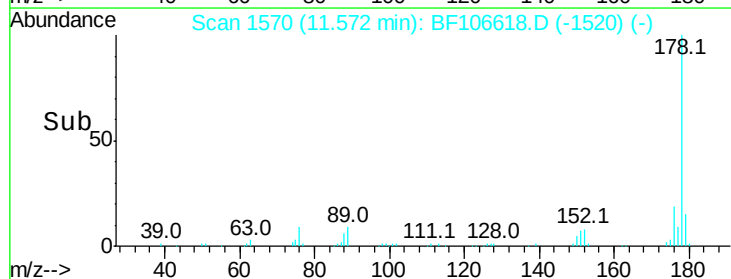
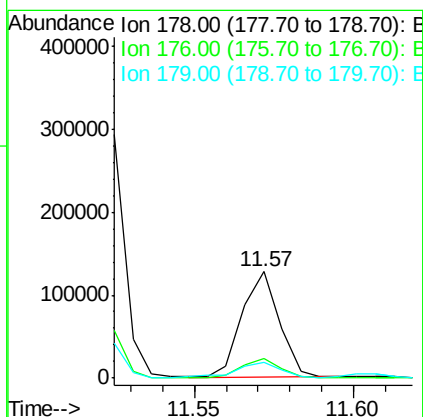
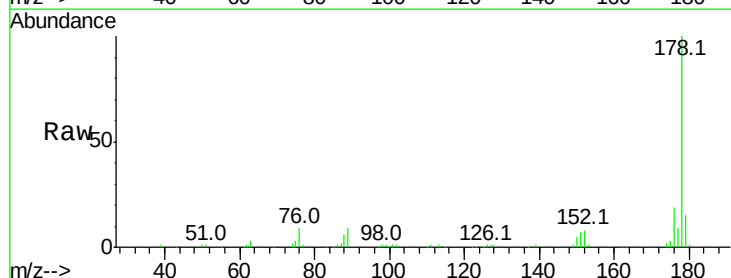
Instrument :
BNA_F
ClientSampleId :

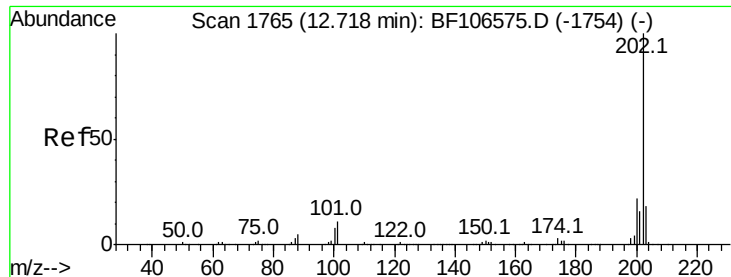
Tot Ion:178 Resp: 299188
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 15.7 13.0 19.6



#71
Anthracene
Concen: 9.384 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

Tgt Ion:178 Resp: 103393
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.2
179 15.2 12.6 19.0





#74

Fluoranthene

Concen: 45.859 ng

RT: 12.72 min Scan# 1765

Delta R.T. 0.00 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

Instrument :

BNA_F

ClientSampleId :

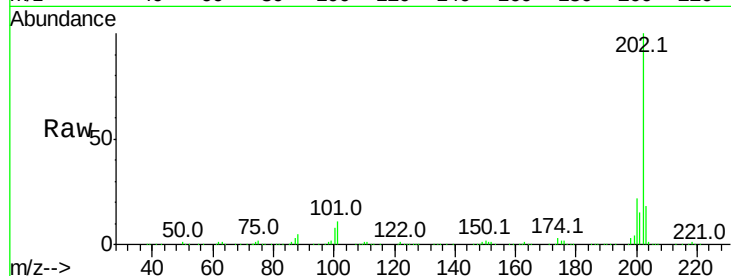
Tot Ion:202 Resp: 545624

Ion Ratio Lower Upper

202 100

101 10.8 0.0 34.1

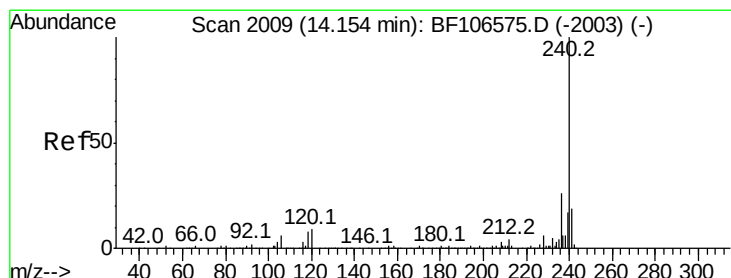
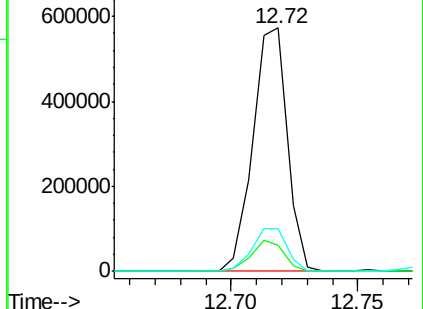
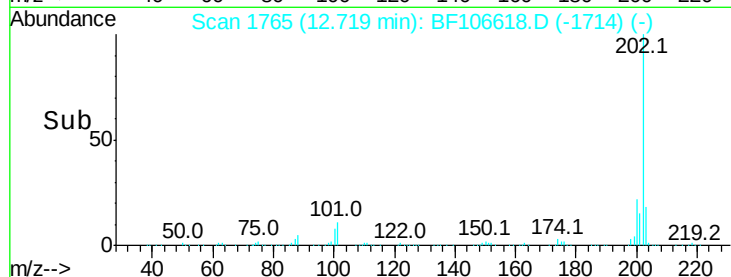
203 17.8 0.0 38.1



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: 14.15 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

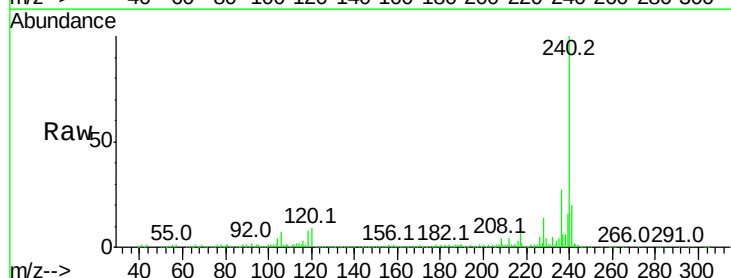
Tgt Ion:240 Resp: 254934

Ion Ratio Lower Upper

240 100

120 9.4 9.5 14.3#

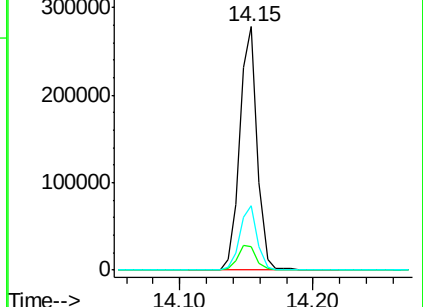
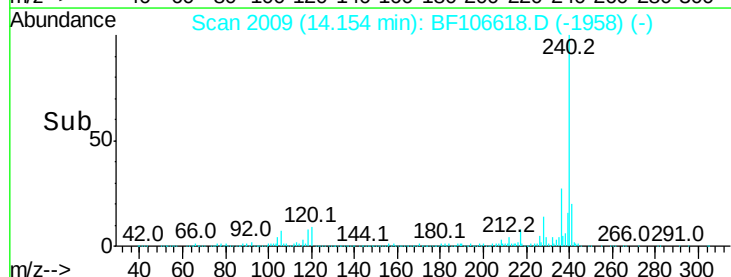
236 26.6 20.7 31.1

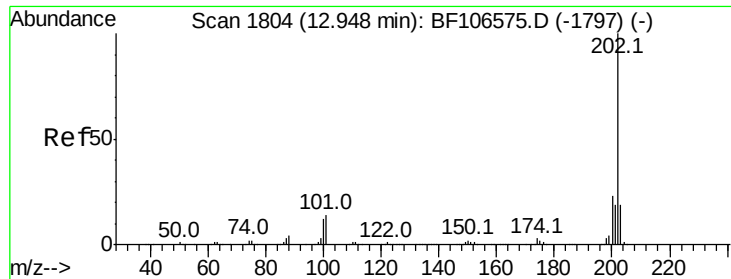


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

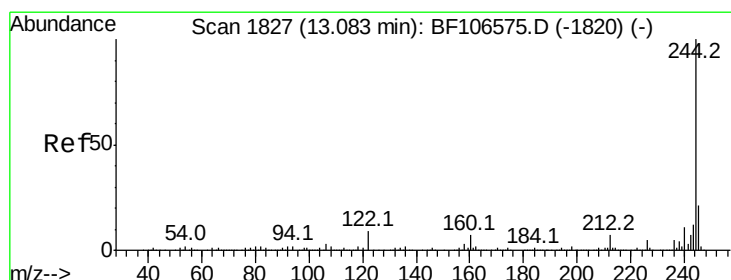
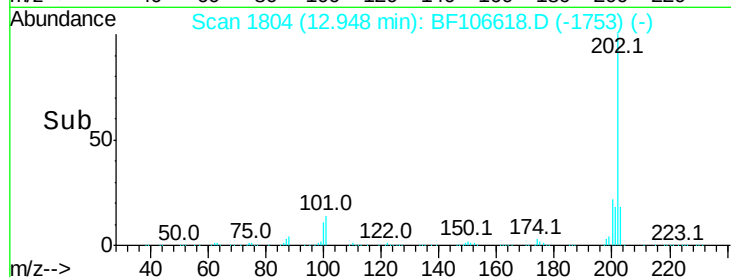
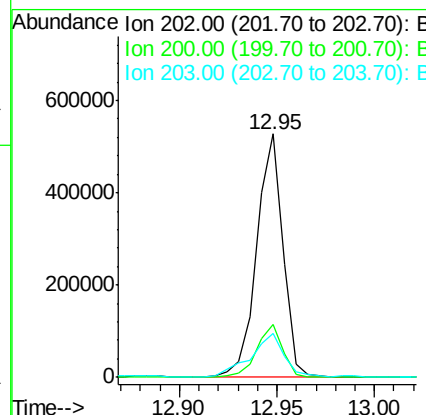
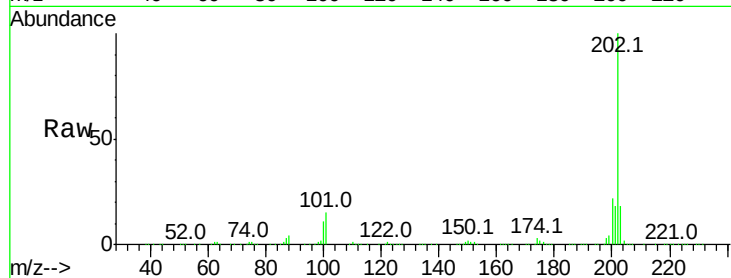




#77
Pvrene
Concen: 29.174 ng
RT: 12.95 min Scan# 1804
Delta R.T. 0.00 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

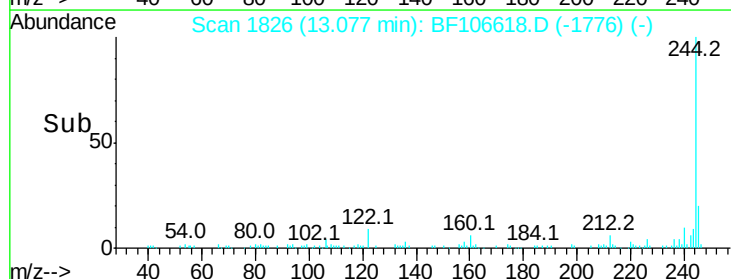
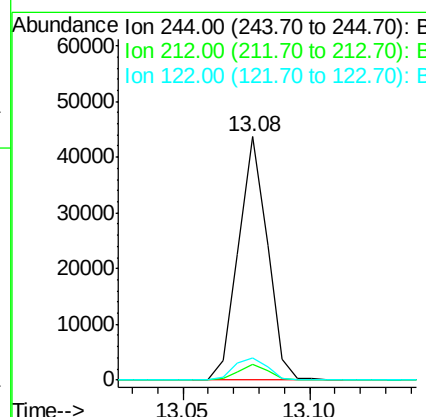
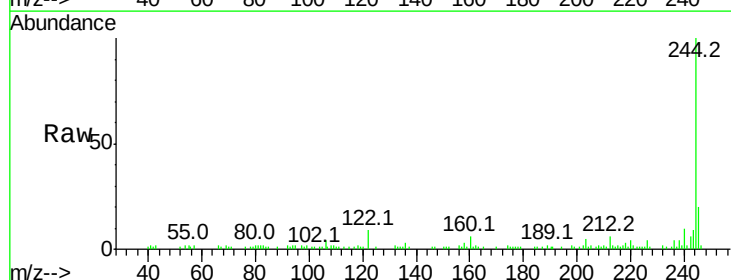
Instrument :
BNA_F
ClientSampleId :

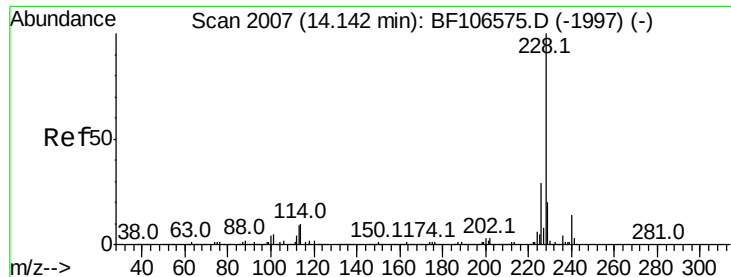
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.2
203	18.2	14.3	21.5



#78
Terphenyl-d14
Concen: 3.301 ng
RT: 13.08 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	8.9	11.0	16.4#





#80

Benzo(a)anthracene

Concen: 20.332 ng

RT: 14.14 min Scan# 2007

Delta R.T. 0.00 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

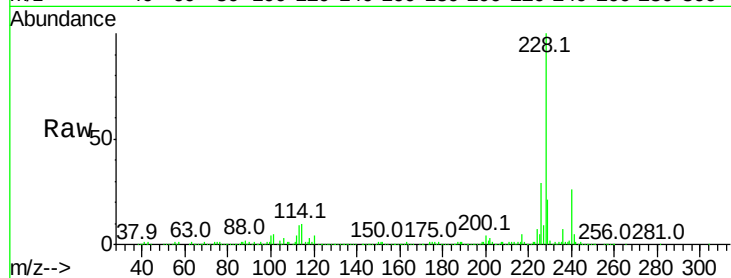
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 315907

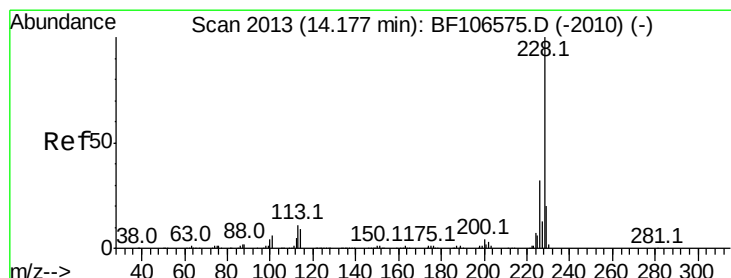
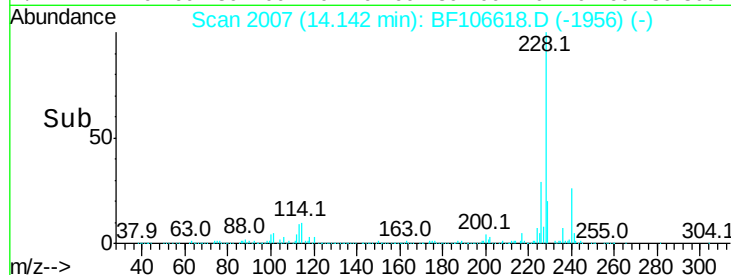
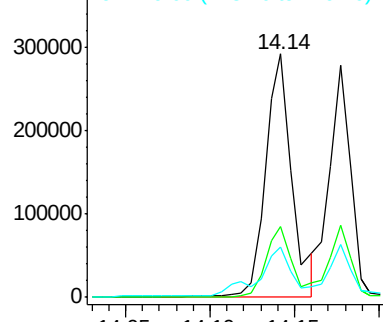
Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.6	33.8
229	20.8	15.8	23.6



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: 16.848 ng

RT: 14.18 min Scan# 2013

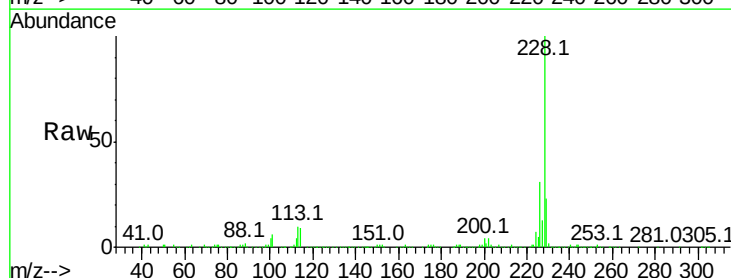
Delta R.T. 0.00 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

Tgt Ion:228 Resp: 240837

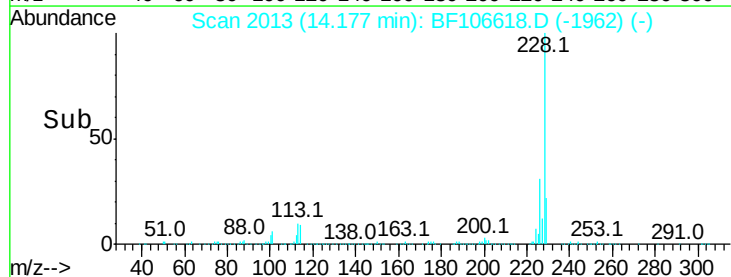
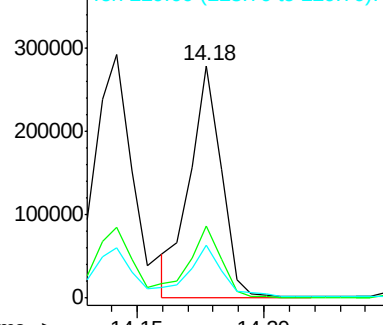
Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.0	37.6
229	22.7	16.2	24.4

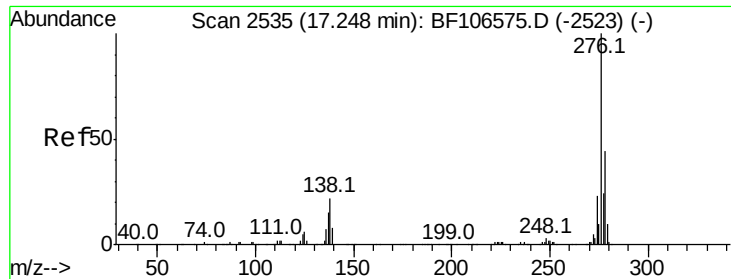


Abundance Ion 228.00 (227.70 to 228.70): E

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: 7.170 ng

RT: 17.25 min Scan# 2536

Delta R.T. 0.01 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

Instrument :

BNA_F

ClientSampleId :

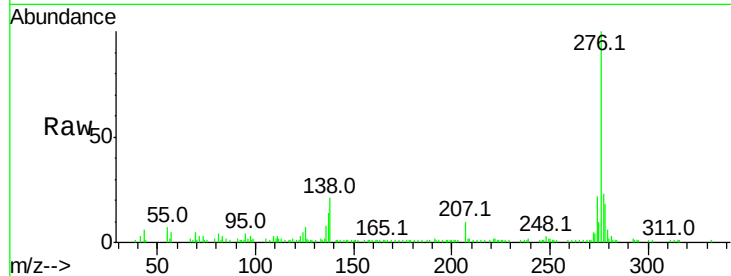
Tot Ion:276 Resp: 86971

Ion Ratio Lower Upper

276 100

138 24.0 25.0 37.6#

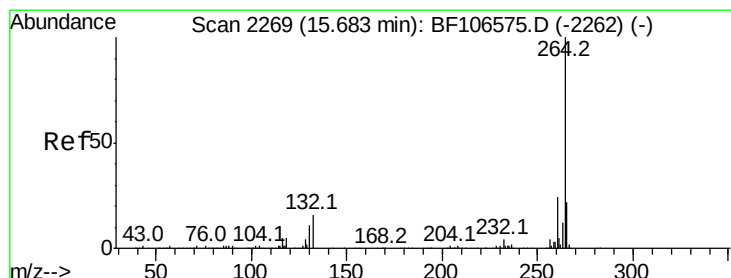
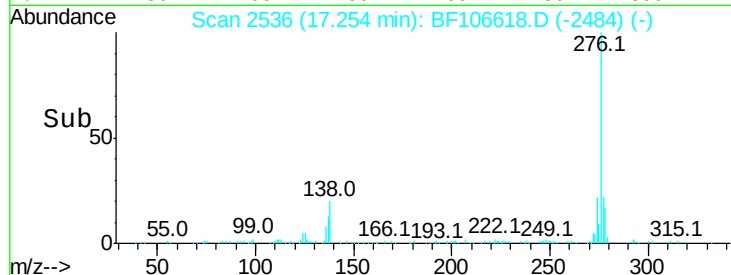
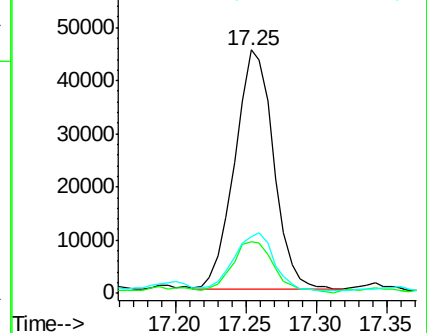
277 24.6 20.1 30.1



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: 15.69 min Scan# 2271

Delta R.T. 0.01 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

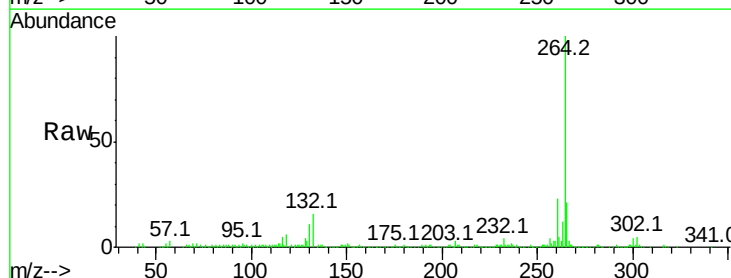
Tgt Ion:264 Resp: 185452

Ion Ratio Lower Upper

264 100

260 23.0 19.2 28.8

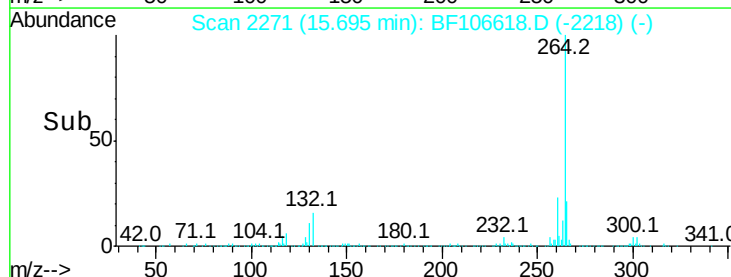
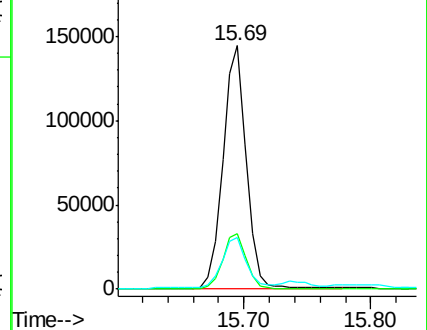
265 21.1 17.5 26.3

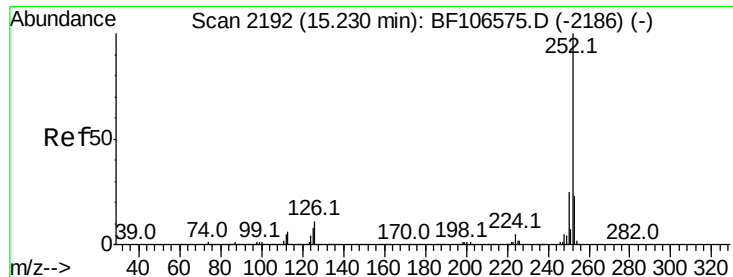


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 30.441 ng

RT: 15.24 min Scan# 2193

Delta R.T. 0.01 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

Instrument :

BNA_F

ClientSampleId :

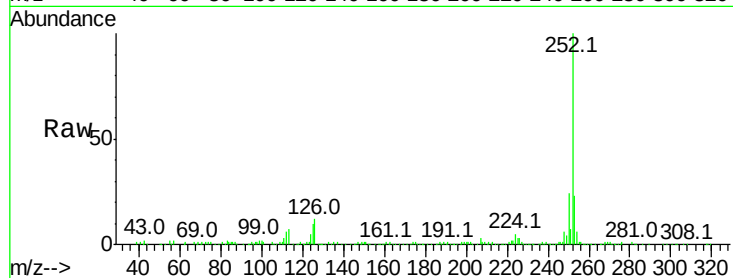
Tot Ion:252 Resp: 350682

Ion Ratio Lower Upper

252 100

253 22.9 17.0 25.6

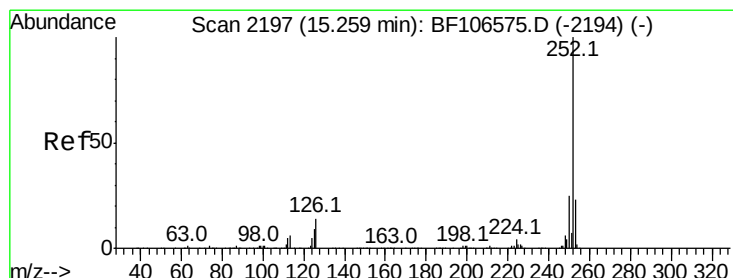
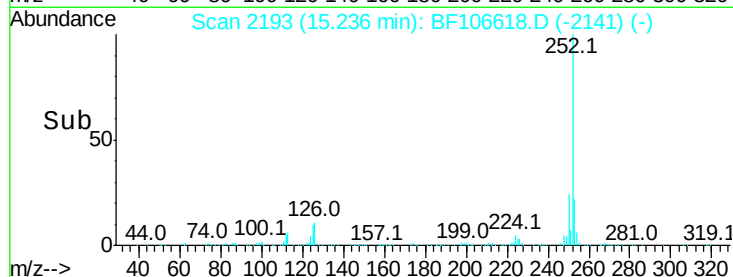
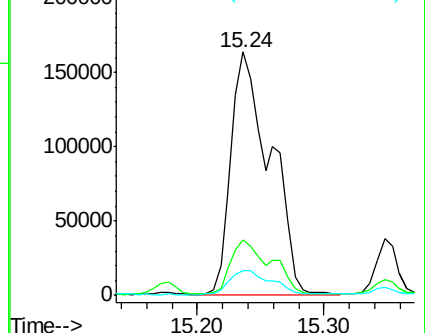
125 10.0 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 31.966 ng

RT: 15.24 min Scan# 2193

Delta R.T. -0.02 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

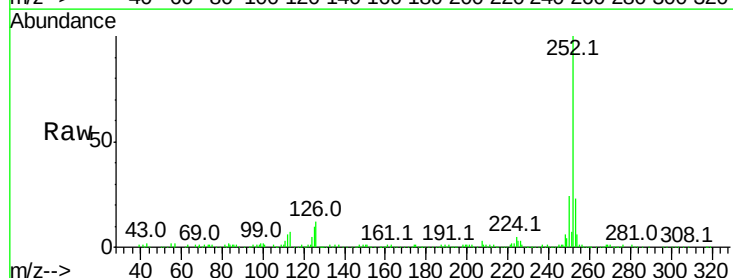
Tgt Ion:252 Resp: 350682

Ion Ratio Lower Upper

252 100

253 22.9 17.9 26.9

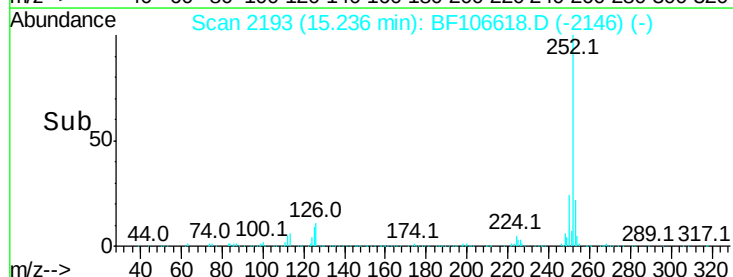
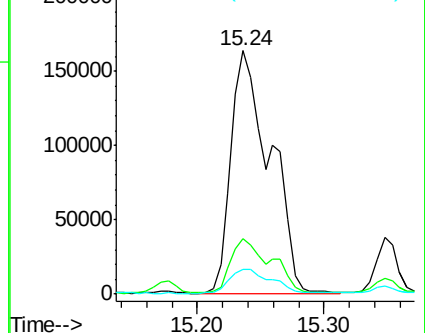
125 10.0 10.2 15.2#

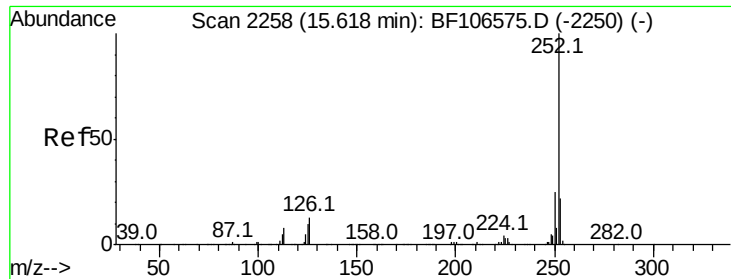


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 17.095 ng

RT: 15.62 min Scan# 2259

Delta R.T. 0.01 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

Instrument :

BNA_F

ClientSampleId :

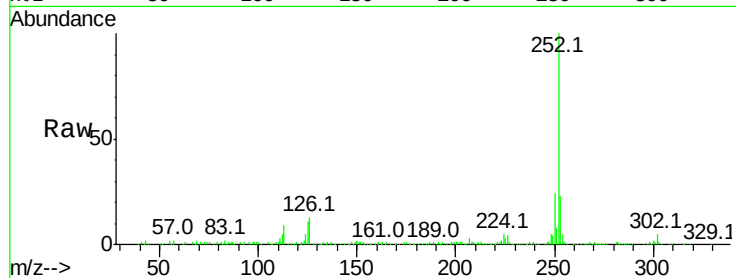
Tot Ion:252 Resp: 175071

Ion Ratio Lower Upper

252 100

253 23.2 17.1 25.7

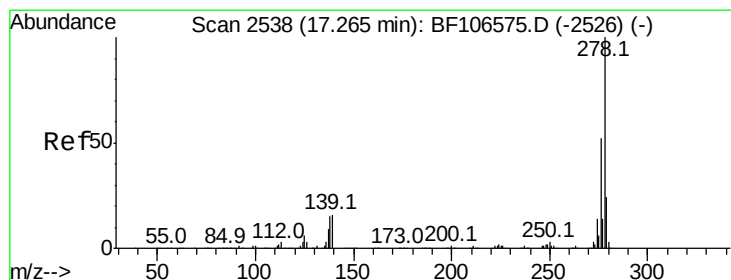
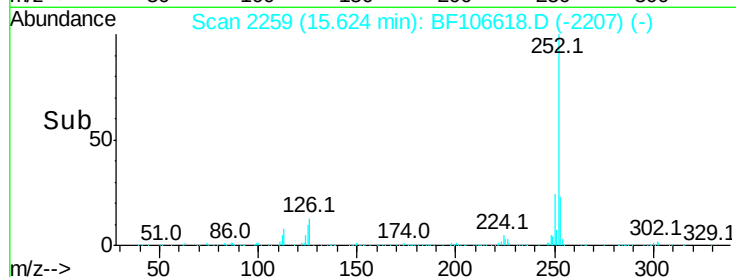
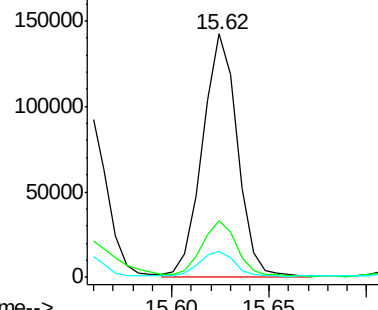
125 10.9 9.8 14.6



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



#90

Dibenzo(a,h)anthracene

Concen: 2.583 ng

RT: 17.26 min Scan# 2537

Delta R.T. -0.01 min

Lab File: BF106618.D

Acq: 20 Jun 2018 9:02

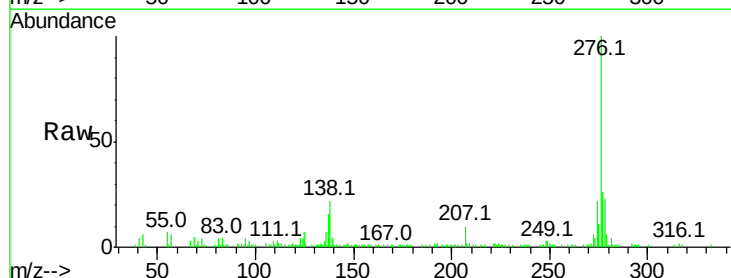
Tgt Ion:278 Resp: 22417

Ion Ratio Lower Upper

278 100

139 22.6 15.9 23.9

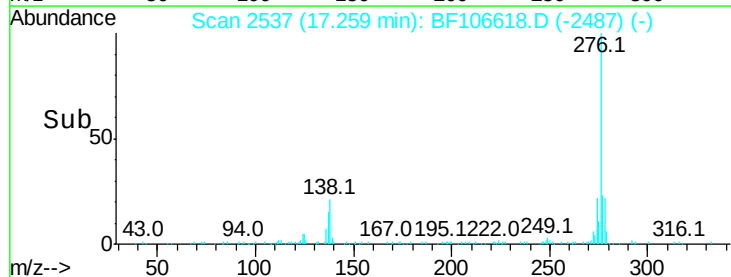
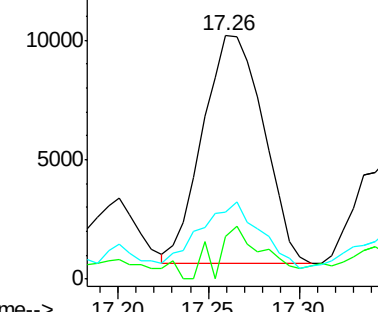
279 27.5 19.0 28.4

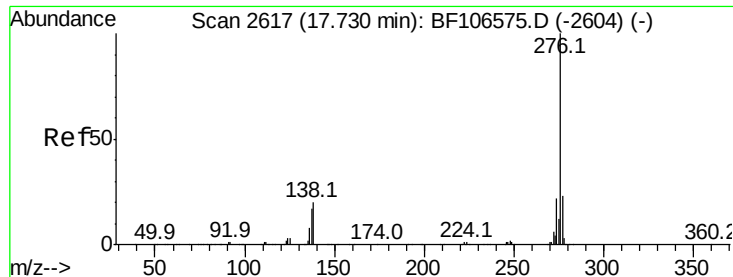


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
Benzo(a,h,i)perylene
Concen: 10.146 ng
RT: 17.74 min Scan# 2618
Delta R.T. 0.01 min
Lab File: BF106618.D
Acq: 20 Jun 2018 9:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.3	17.9	26.9
138	20.1	21.8	32.8

