

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
 Data File : BF098821.D
 Acq On : 26 Sep 2017 9:56
 Operator : SJ/JU
 Sample : I5362-05DL 5X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 26 11:18:57 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.91	152	152023	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	630561	20.00	ng	-0.01
38) Acenaphthene-d10	9.95	164	283184	20.00	ng	-0.01
63) Phenanthrene-d10	11.44	188	465273	20.00	ng	0.00
75) Chrysene-d12	14.07	240	264157	20.00	ng	-0.01
86) Perylene-d12	15.56	264	262820	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.52	112	189435	19.84	ng	-0.02
7) Phenol-d6	6.52	99	236589	20.08	ng	-0.02
23) Nitrobenzene-d5	7.47	82	135848	13.82	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	40506	17.48	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	268359	15.82	ng	-0.02
78) Terphenyl-d14	13.02	244	182406	15.70	ng	-0.02

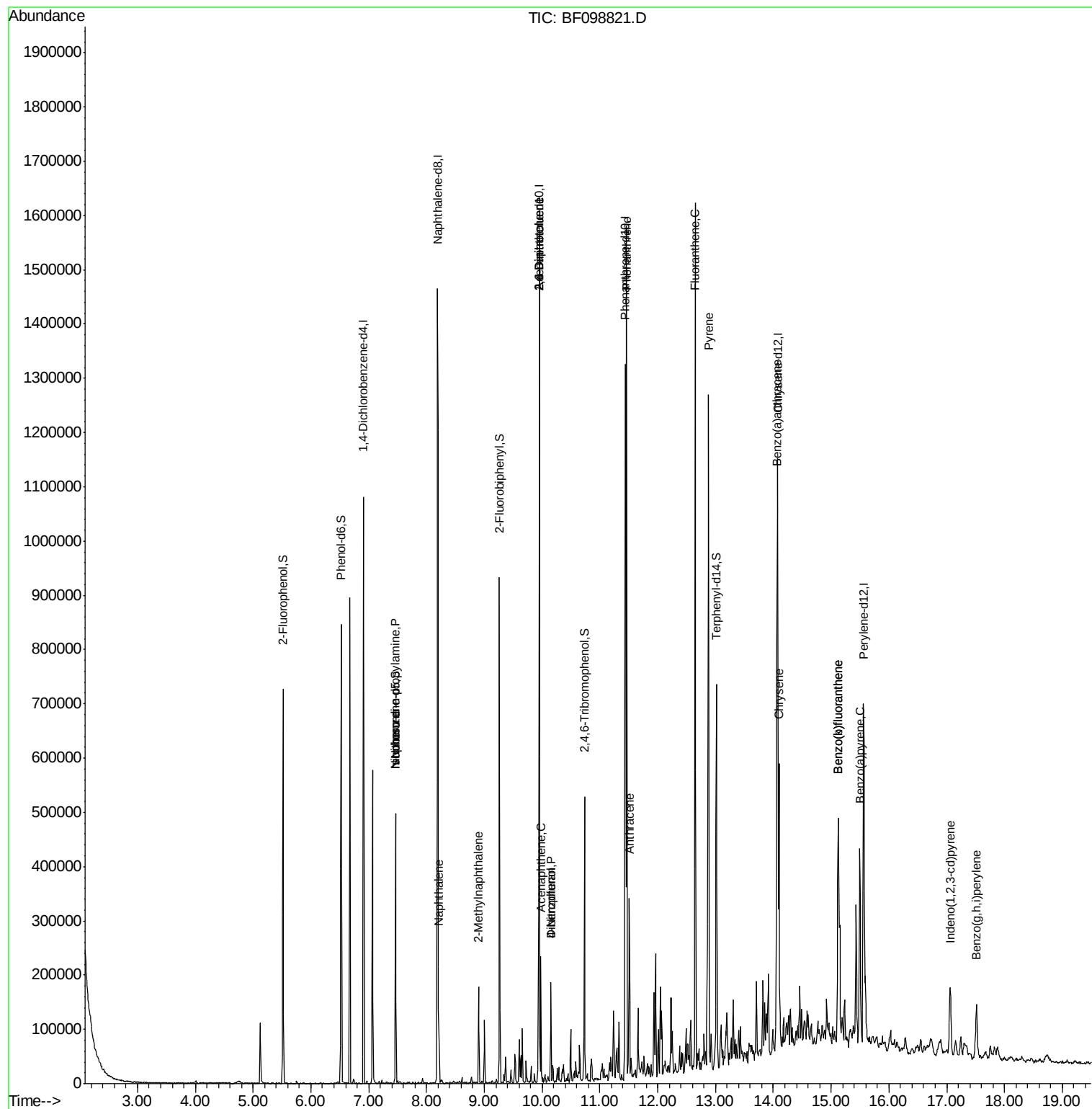
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.47	70	17419	2.316	ng	# 76
25) Isophorone	7.47	82	135845	6.682	ng	# 64
31) Naphthalene	8.22	128	76043	2.568	ng	99
37) 2-Methylnaphthalene	8.90	142	41735	2.168	ng	97
50) 2,6-Dinitrotoluene	9.95	165	39016	8.385	ng	# 26
51) Acenaphthene	9.98	154	38156	2.153	ng	99
54) Dibenzofuran	10.15	168	54409	2.306	ng	99
55) 4-Nitrophenol	10.15	139	21298	4.642	ng	# 11
56) 2,4-Dinitrotoluene	9.95	165	39016	6.461	ng	# 23
70) Phenanthrene	11.46	178	516379	20.734	ng	99
71) Anthracene	11.51	178	104508	4.101	ng	99
74) Fluoranthene	12.65	202	562809	22.317	ng	99
77) Pvrene	12.88	202	466735	23.171	ng	99
80) Benzo(a)anthracene	14.06	228	215955	13.501	ng	98
82) Chrysene	14.10	228	185735	12.197	ng	97
85) Indeno(1,2,3-cd)pyrene	17.06	276	81334	6.677	ng	96
87) Benzo(b)fluoranthene	15.12	252	292282	18.088	ng	# 94
88) Benzo(k)fluoranthene	15.12	252	292282	18.313	ng	97
89) Benzo(a)pvrene	15.50	252	152192	10.260	ng	95
91) Benzo(a,h,i)perylene	17.52	276	74057	6.311	ng	96

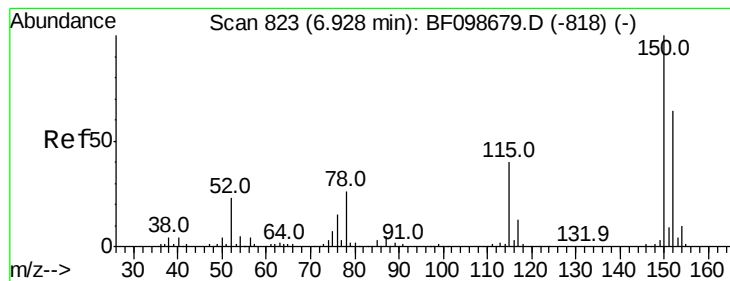
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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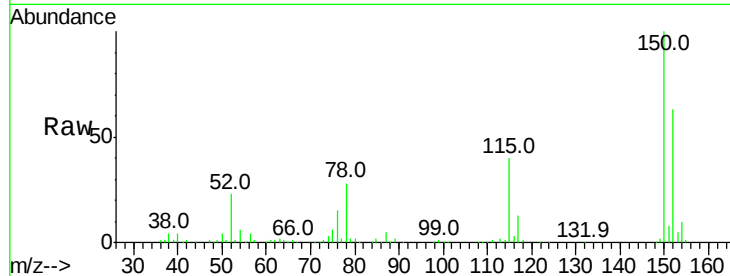


#1

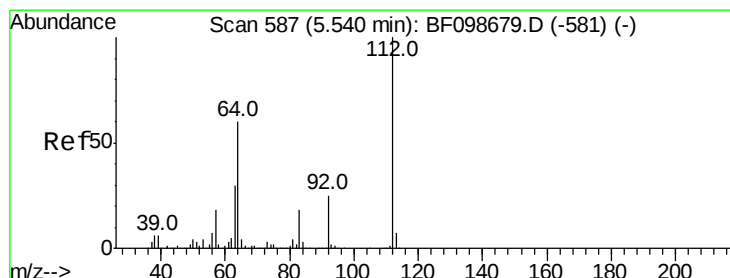
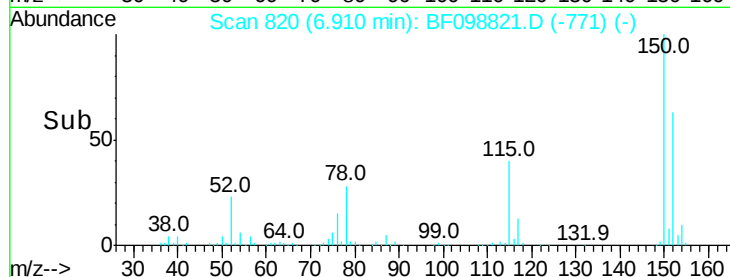
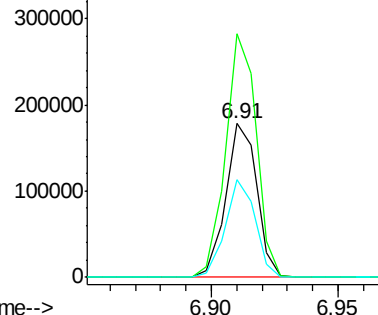
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.91 min Scan# 820
Delta R.T. -0.01 min
Lab File: BF098821.D
Acq: 26 Sep 2017 9:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 152023
Ion Ratio Lower Upper
152 100
150 158.4 124.6 186.8
115 63.2 50.1 75.1



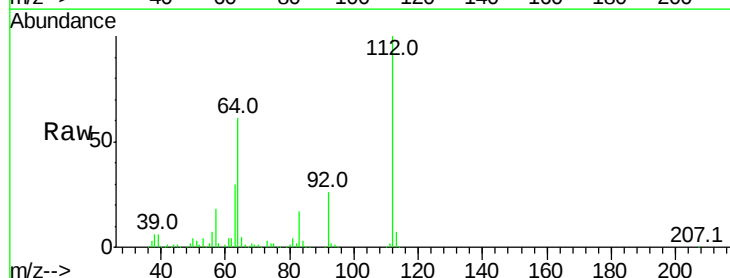
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



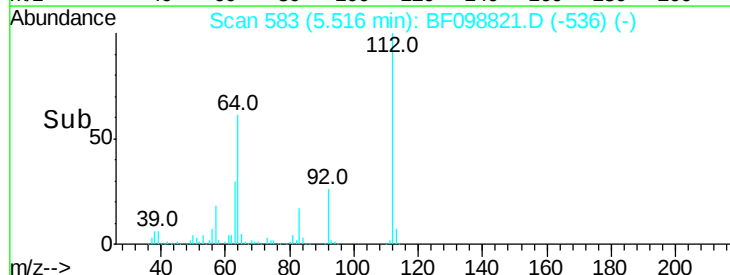
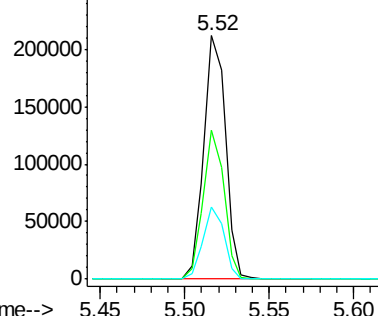
#5

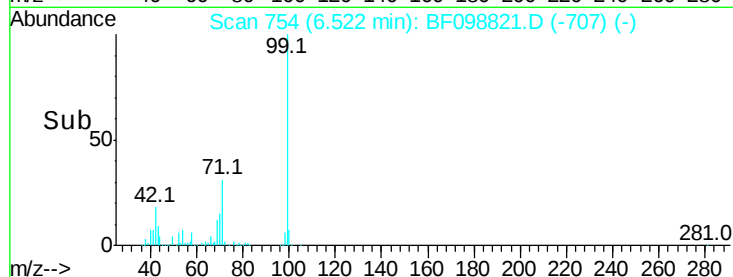
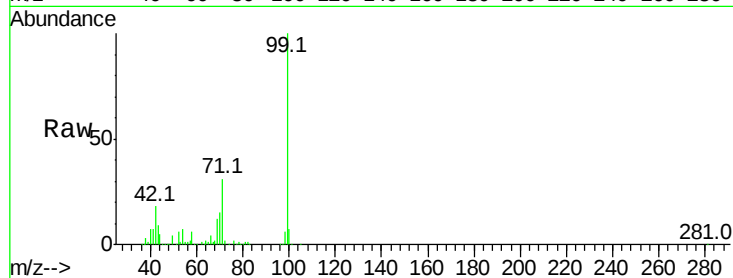
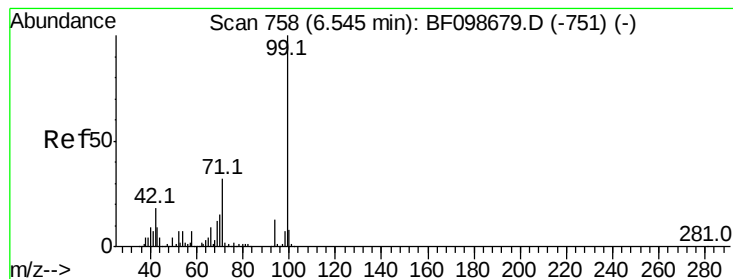
2-Fluorophenol
Concen: 19.837 ng
RT: 5.52 min Scan# 583
Delta R.T. -0.02 min
Lab File: BF098821.D
Acq: 26 Sep 2017 9:56

Tgt Ion:112 Resp: 189435
Ion Ratio Lower Upper
112 100
64 60.9 47.9 71.9
63 29.6 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: 20.083 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.02 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

Instrument :

BNA_F

ClientSampleId :

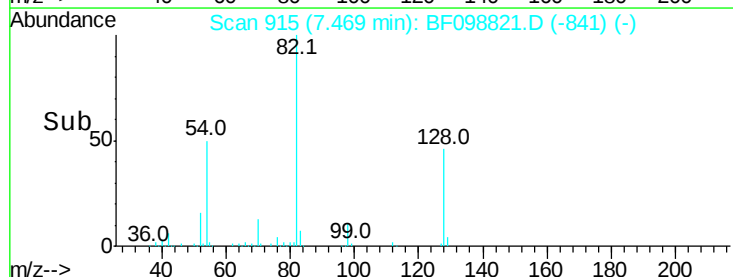
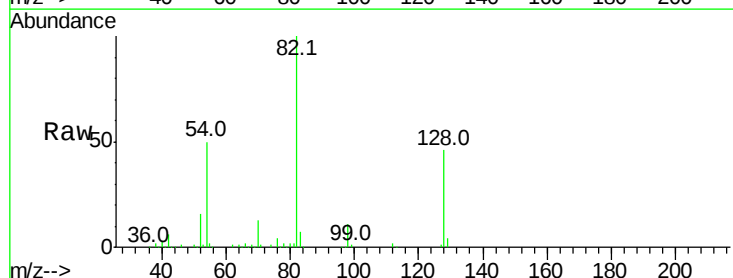
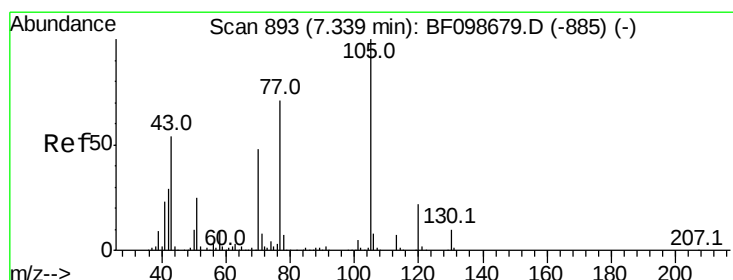
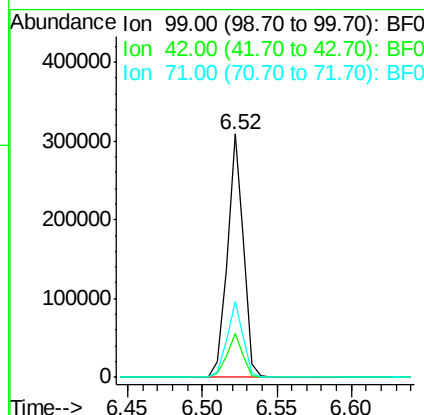
Tot Ion: 99 Resp: 236589

Ion Ratio Lower Upper

99 100

42 18.3 14.5 21.7

71 31.1 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 2.316 ng

RT: 7.47 min Scan# 915

Delta R.T. 0.14 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

Tgt Ion: 70 Resp: 17419

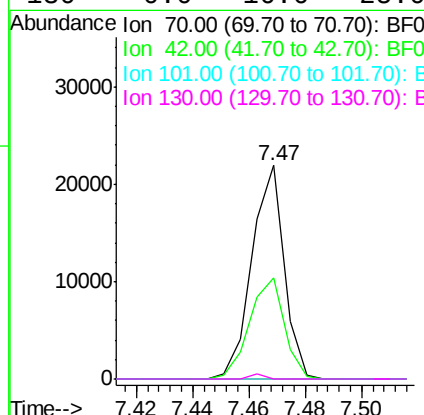
Ion Ratio Lower Upper

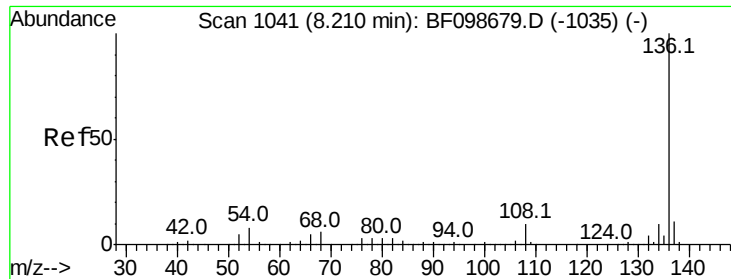
70 100

42 47.1 47.5 71.3#

101 0.0 7.4 11.2#

130 0.0 16.6 25.0#

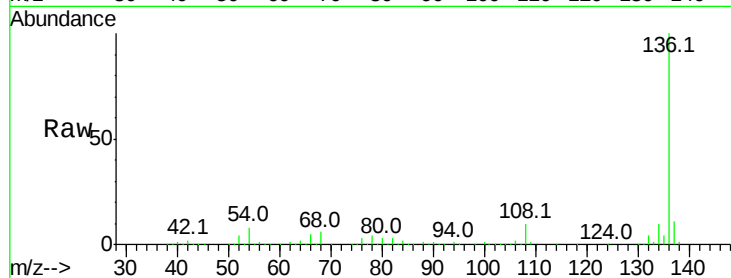




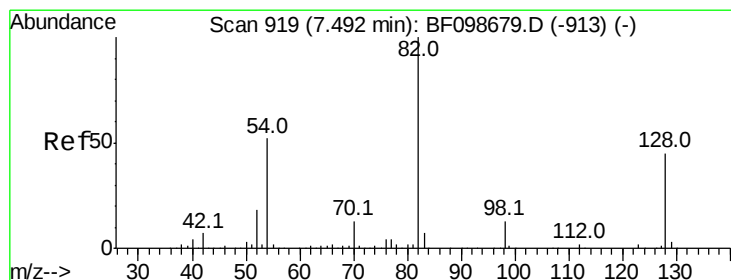
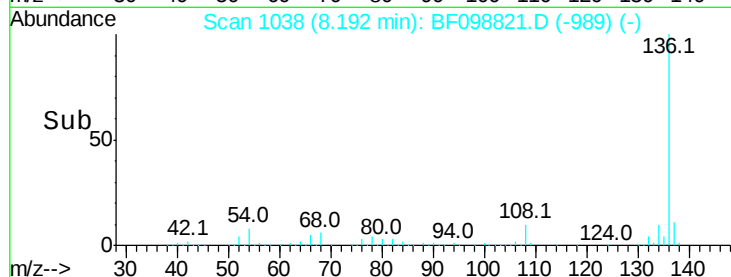
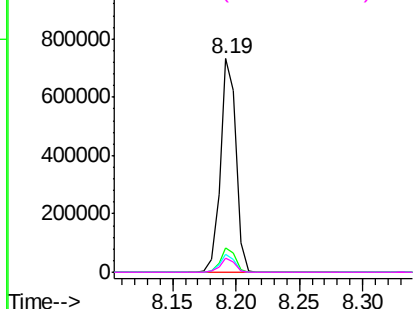
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.19 min Scan# 1038
Delta R.T. -0.01 min
Lab File: BF098821.D
Acq: 26 Sep 2017 9:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	630561
Ion Ratio	Lower	Upper
136	100	
137	11.2	8.9 13.3
54	8.4	6.6 9.8
68	6.3	5.0 7.4

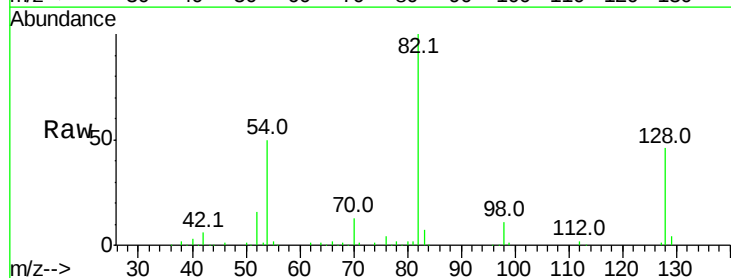


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

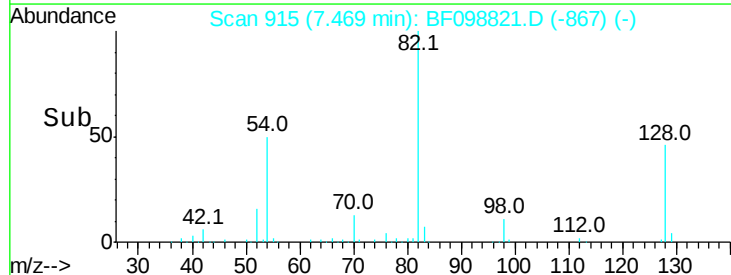
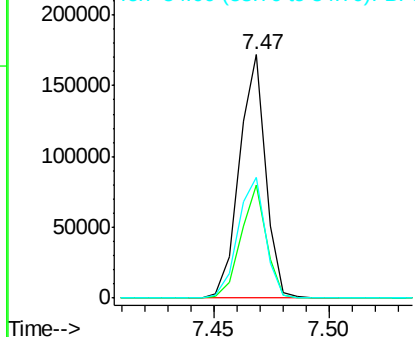


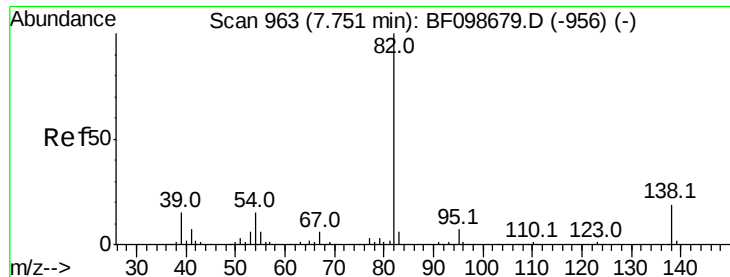
#23
Nitrobenzene-d5
Concen: 13.816 ng
RT: 7.47 min Scan# 915
Delta R.T. -0.02 min
Lab File: BF098821.D
Acq: 26 Sep 2017 9:56

Tgt Ion: 82	Resp:	135848
Ion Ratio	Lower	Upper
82	100	
128	46.5	36.1 54.1
54	49.7	41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 6.682 ng

RT: 7.47 min Scan# 915

Delta R.T. -0.28 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

Instrument :

BNA_F

ClientSampled :

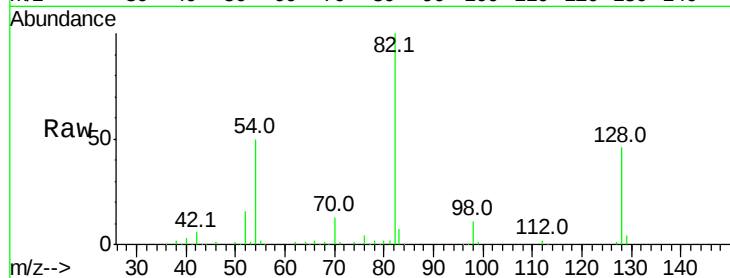
Tot Ion: 82 Resp: 135845

Ion Ratio Lower Upper

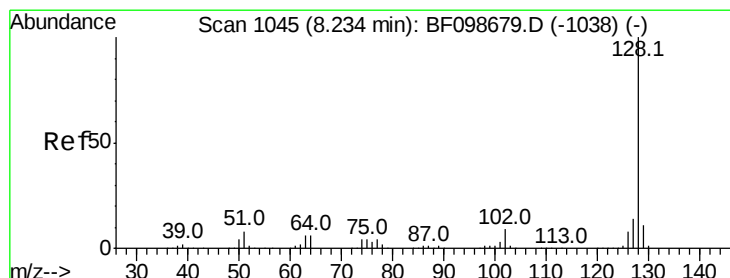
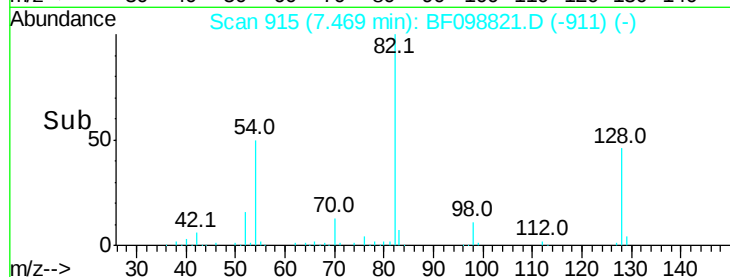
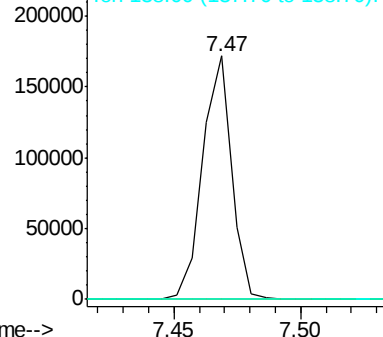
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#31

Naphthalene

Concen: 2.568 ng

RT: 8.22 min Scan# 1042

Delta R.T. -0.01 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

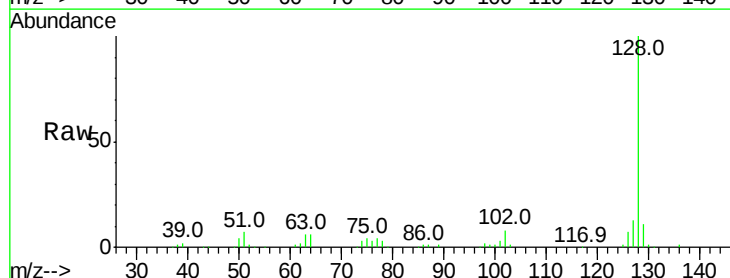
Tgt Ion:128 Resp: 76043

Ion Ratio Lower Upper

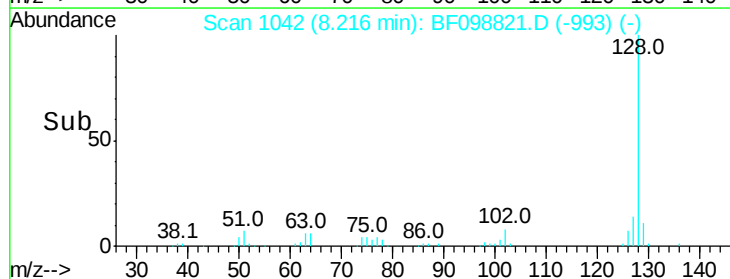
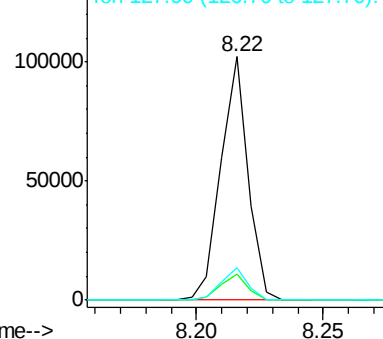
128 100

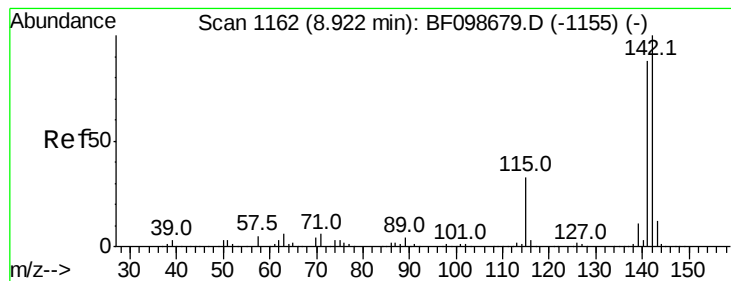
129 10.7 8.8 13.2

127 13.5 10.9 16.3



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





#37

2-Methylnaphthalene

Concen: 2.168 ng

RT: 8.90 min Scan# 1159

Delta R.T. -0.01 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

Instrument :

BNA_F

ClientSampleId :

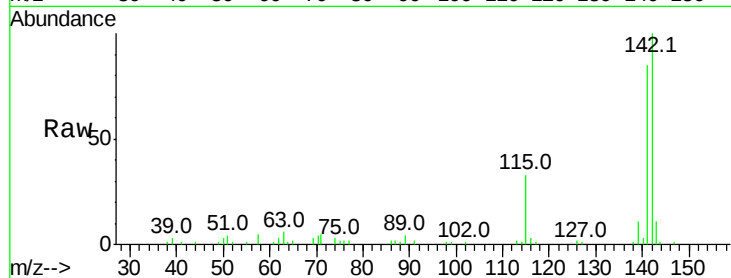
Tot Ion:142 Resp: 41735

Ion Ratio Lower Upper

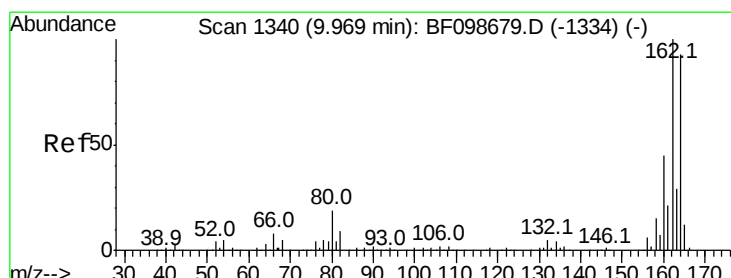
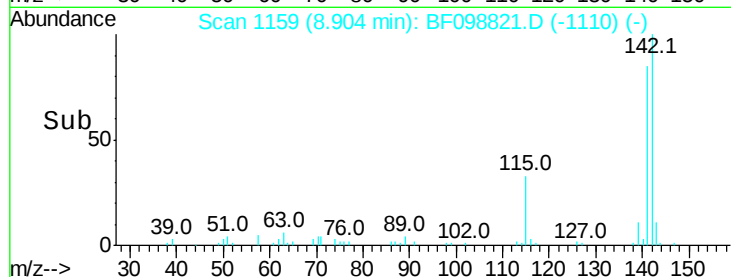
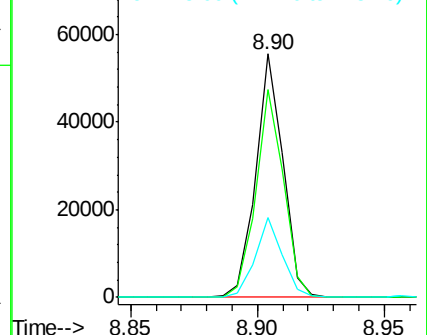
142 100

141 85.3 70.8 106.2

115 32.5 26.1 39.1



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

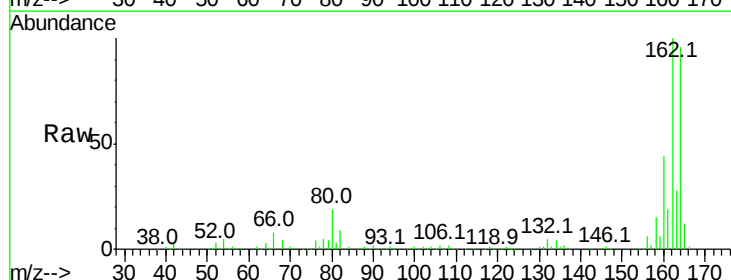
Tgt Ion:164 Resp: 283184

Ion Ratio Lower Upper

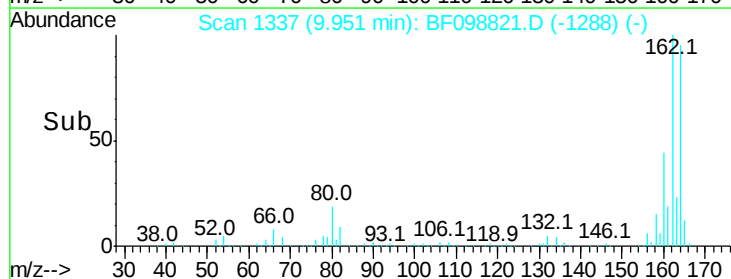
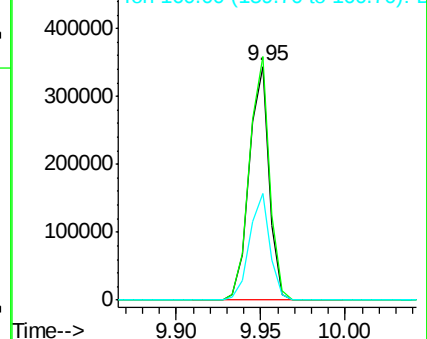
164 100

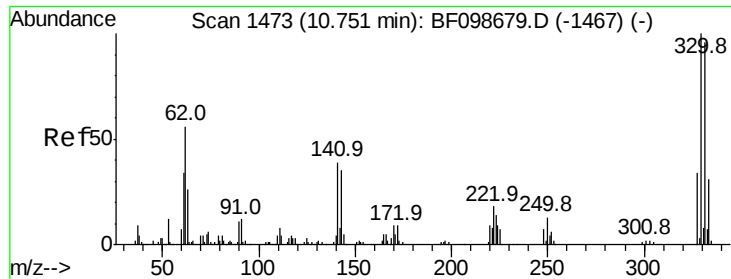
162 104.3 86.1 129.1

160 45.9 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

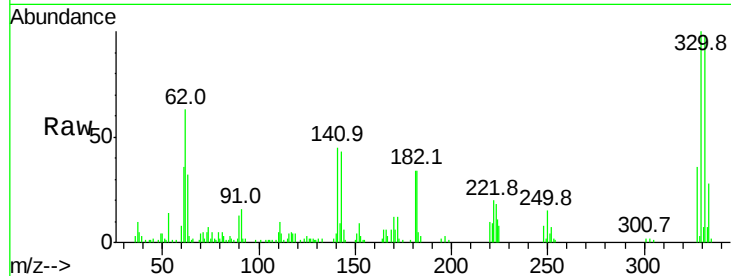




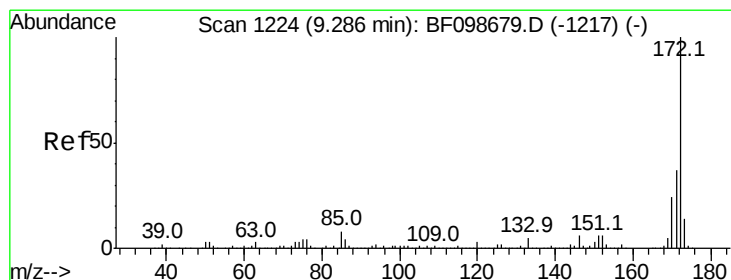
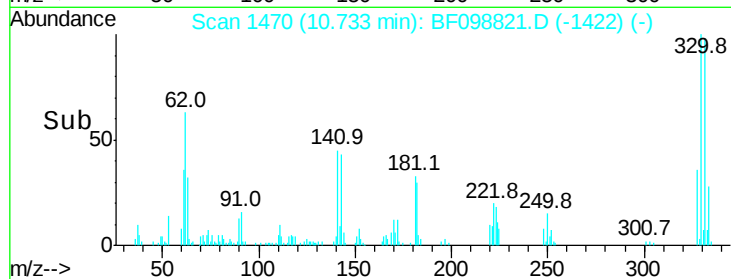
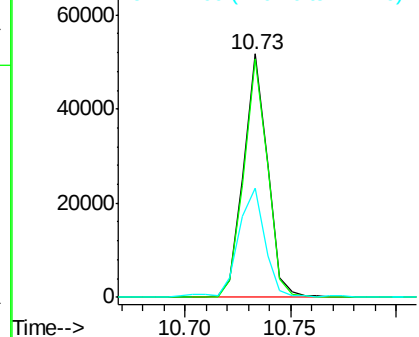
#41
 2,4,6-Tribromophenol
 Concen: 17.480 ng
 RT: 10.73 min Scan# 1470
 Delta R.T. -0.02 min
 Lab File: BF098821.D
 Acq: 26 Sep 2017 9:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.0	115.6
141	50.2	29.9	44.9#

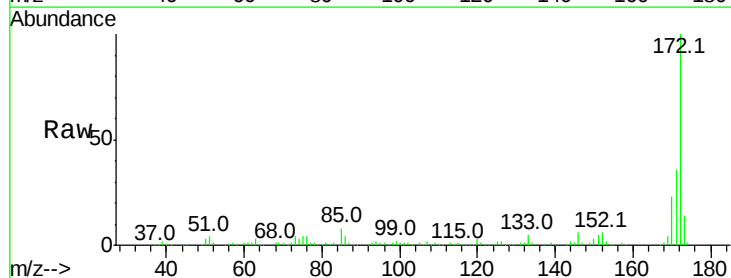


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

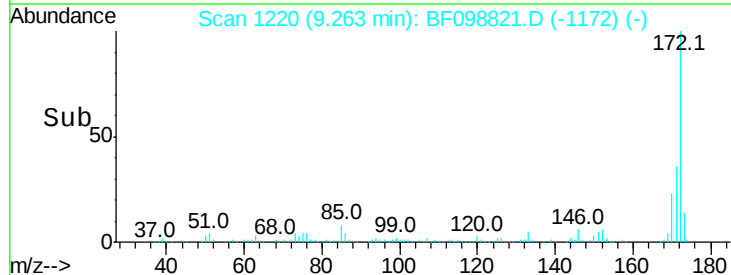
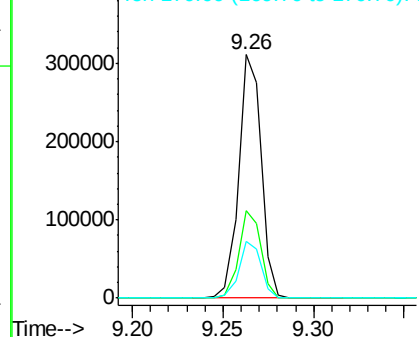


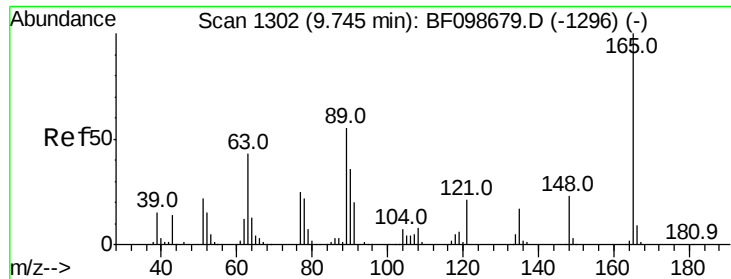
#44
 2-Fluorobiphenyl
 Concen: 15.820 ng
 RT: 9.26 min Scan# 1220
 Delta R.T. -0.02 min
 Lab File: BF098821.D
 Acq: 26 Sep 2017 9:56

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.7	44.5
170	23.5	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

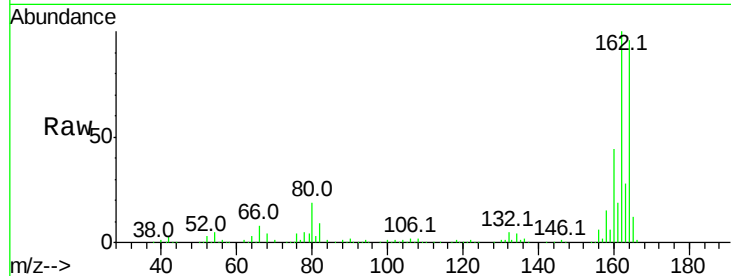




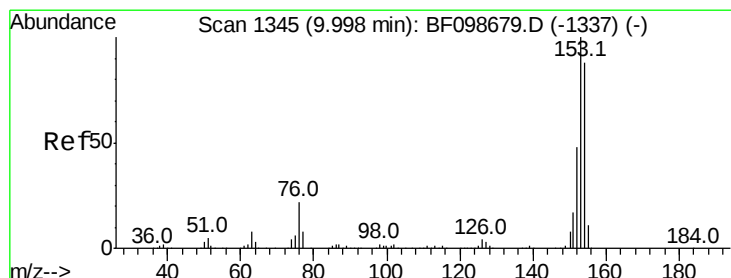
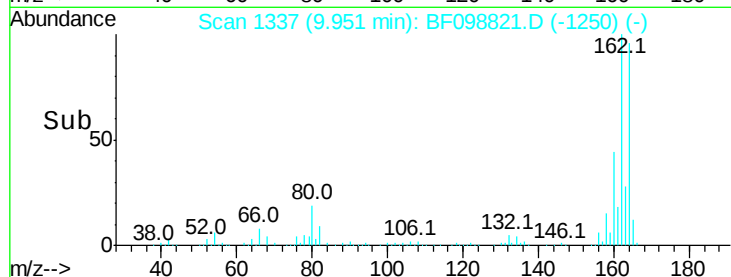
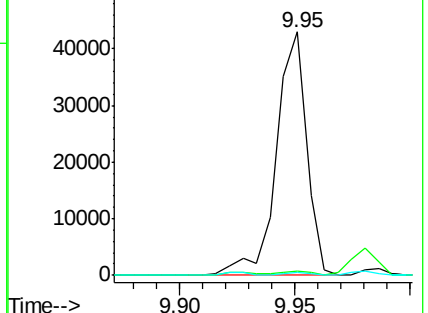
#50
 2,6-Dinitrotoluene
 Concen: 8.385 ng
 RT: 9.95 min Scan# 1337
 Delta R.T. 0.21 min
 Lab File: BF098821.D
 Acq: 26 Sep 2017 9:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	44.7	67.1#
89	1.3	44.0	66.0#

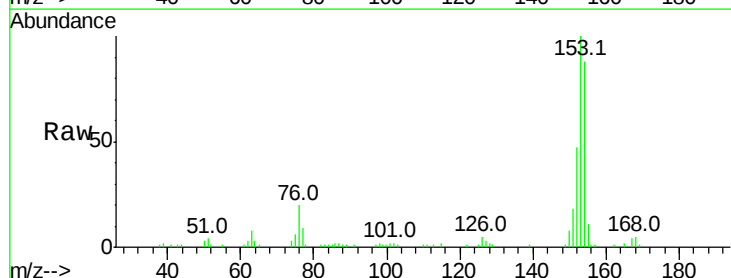


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

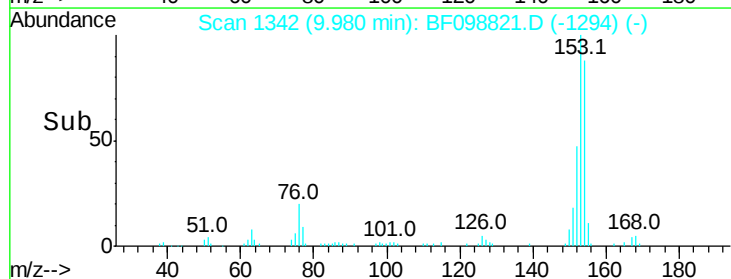
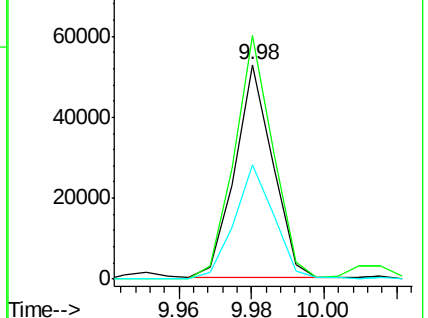


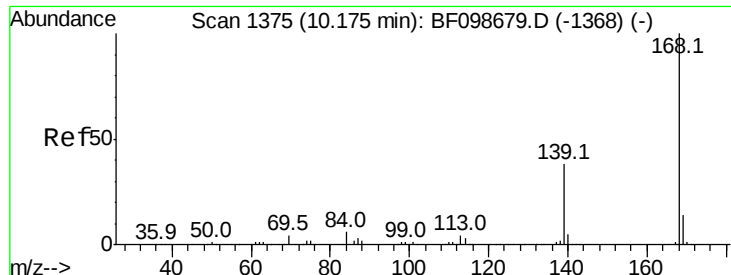
#51
 Acenaphthene
 Concen: 2.153 ng
 RT: 9.98 min Scan# 1342
 Delta R.T. -0.02 min
 Lab File: BF098821.D
 Acq: 26 Sep 2017 9:56

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.5	91.2	136.8
152	53.0	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

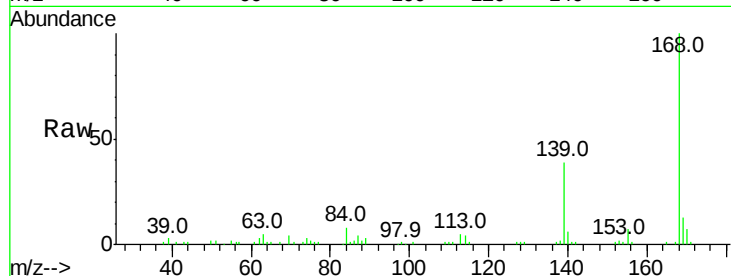




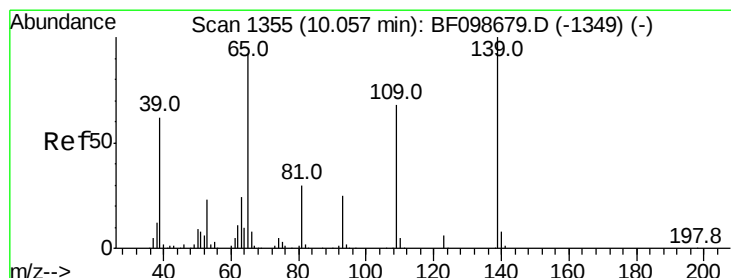
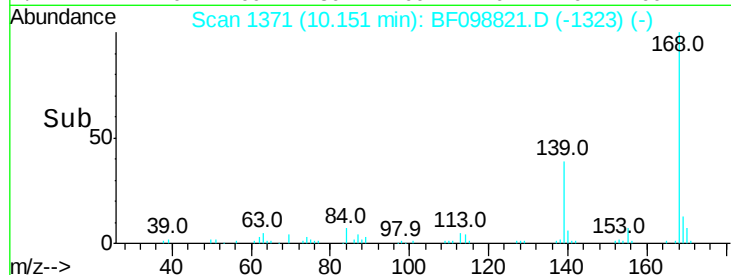
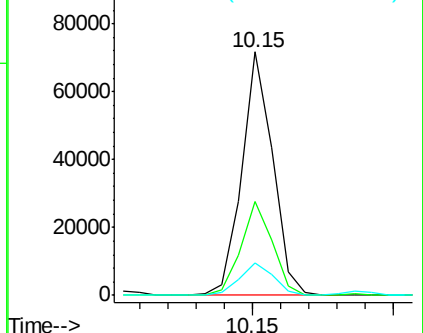
#54
Dibenzenofuran
Concen: 2.306 ng
RT: 10.15 min Scan# 1371
Delta R.T. -0.02 min
Lab File: BF098821.D
Acq: 26 Sep 2017 9:56

Instrument :
BNA_F
ClientSampled :

Tot Ion:168 Resp: 54409
Ion Ratio Lower Upper
168 100
139 38.6 30.1 45.1
169 13.4 10.9 16.3

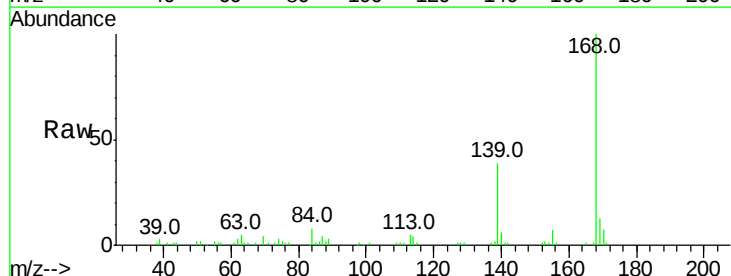


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

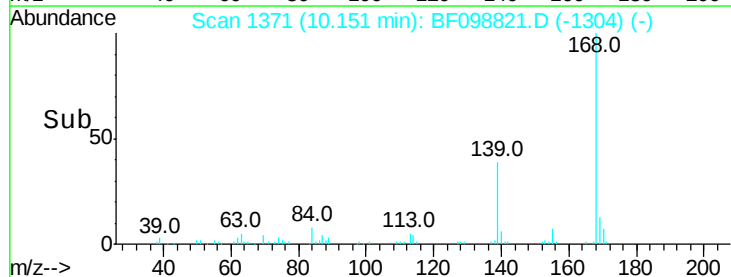
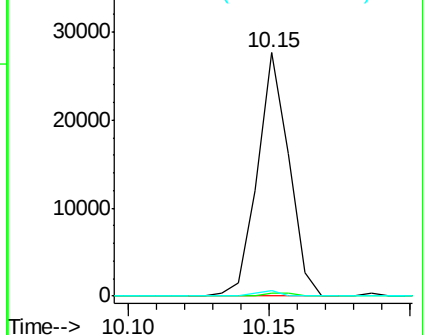


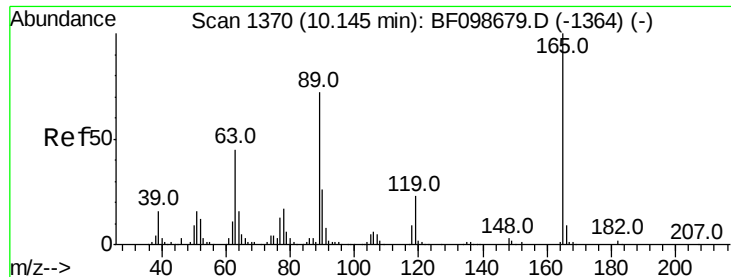
#55
4-Nitrophenol
Concen: 4.642 ng
RT: 10.15 min Scan# 1371
Delta R.T. 0.09 min
Lab File: BF098821.D
Acq: 26 Sep 2017 9:56

Tgt Ion:139 Resp: 21298
Ion Ratio Lower Upper
139 100
109 1.4 48.4 88.4#
65 2.4 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

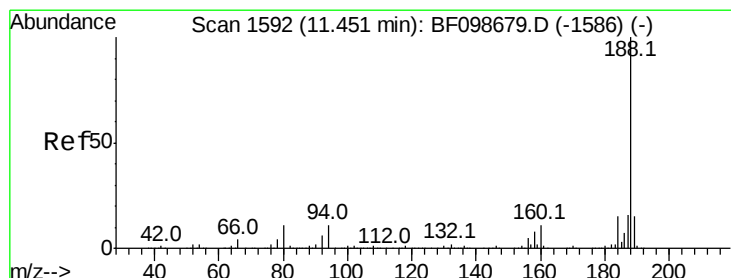
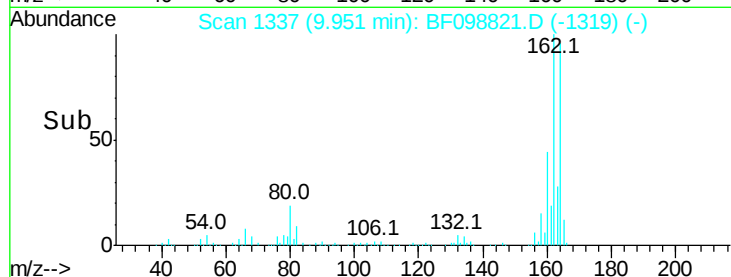
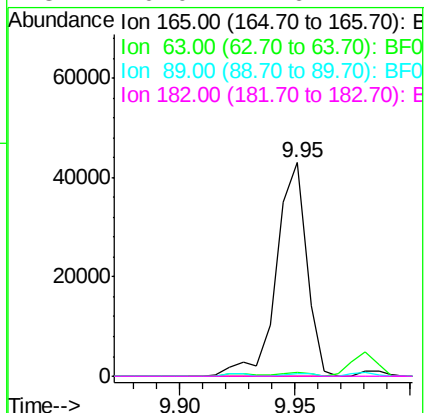
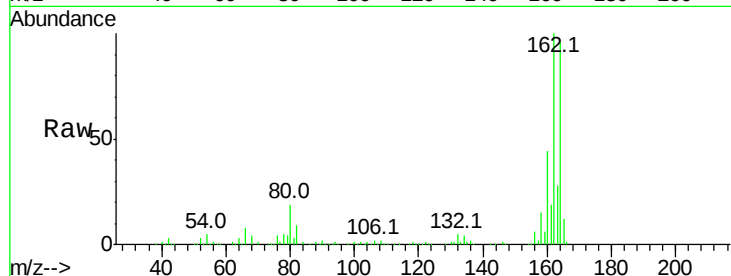




#56
 2,4-Dinitrotoluene
 Concen: 6.461 ng
 RT: 9.95 min Scan# 1337
 Delta R.T. -0.19 min
 Lab File: BF098821.D
 Acq: 26 Sep 2017 9:56

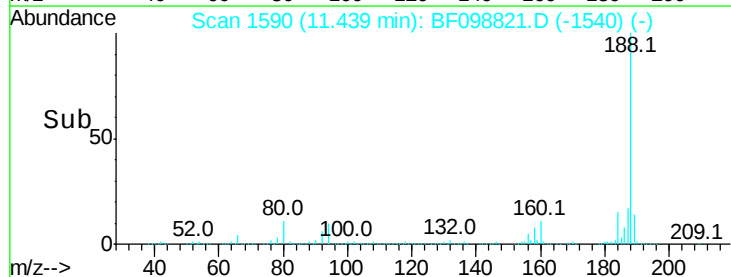
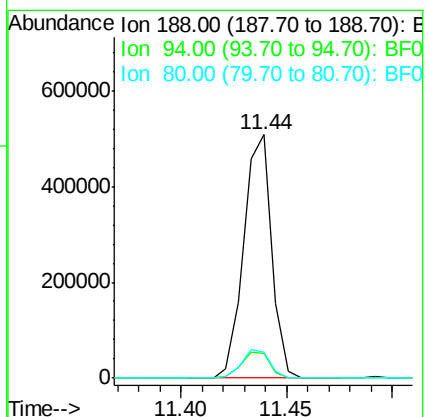
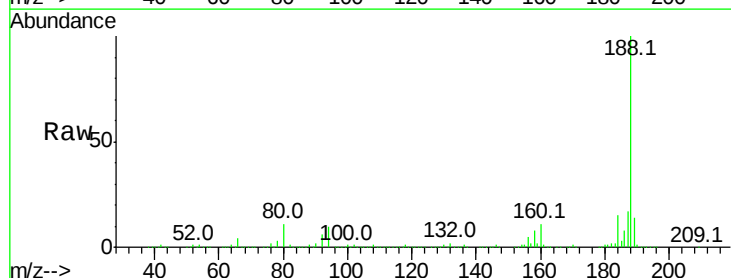
Instrument :
 BNA_F
 ClientSampleId :

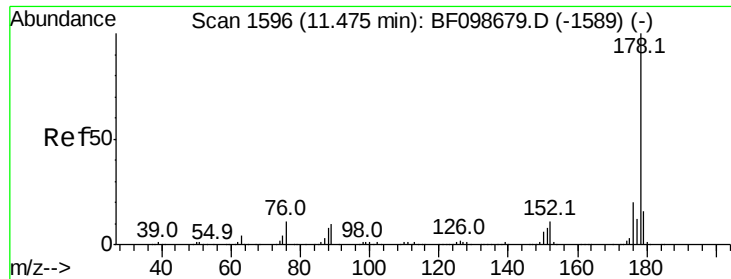
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	36.4	54.6#
89	1.3	57.8	86.6#
182	0.0	1.6	2.4#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.44 min Scan# 1590
 Delta R.T. -0.01 min
 Lab File: BF098821.D
 Acq: 26 Sep 2017 9:56

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.5	12.7
80	10.7	9.2	13.8

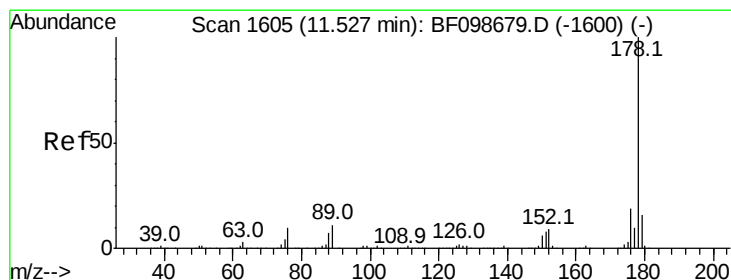
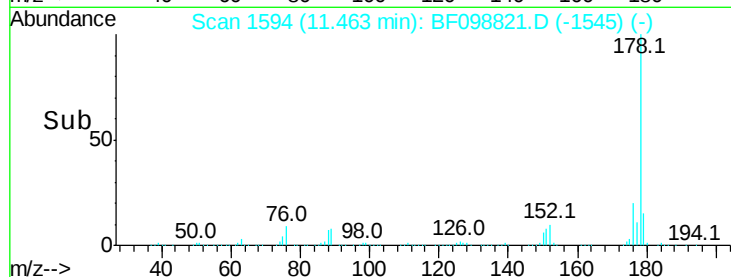
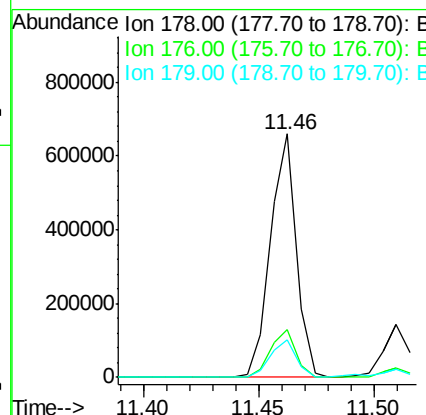
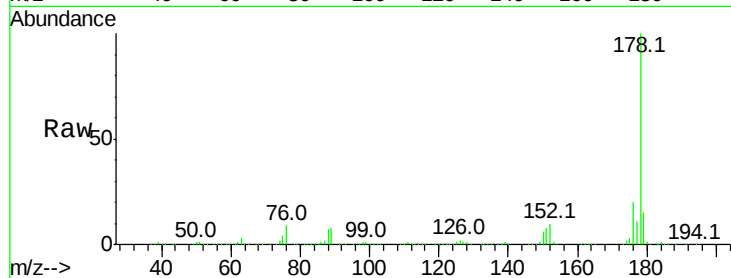




#70
Phenanthrene
Concen: 20.734 ng
RT: 11.46 min Scan# 1594
Delta R.T. -0.01 min
Lab File: BF098821.D
Acq: 26 Sep 2017 9:56

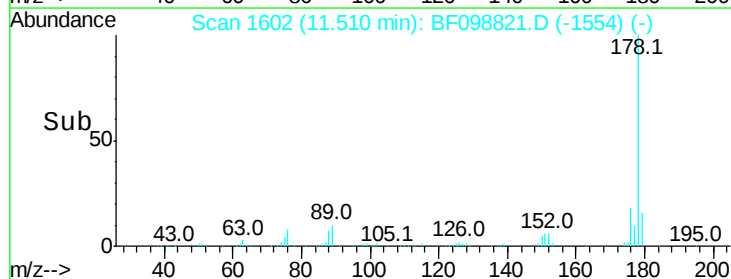
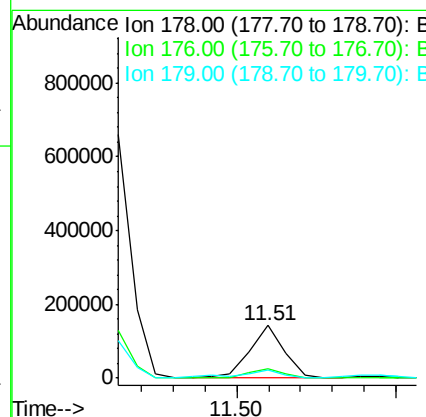
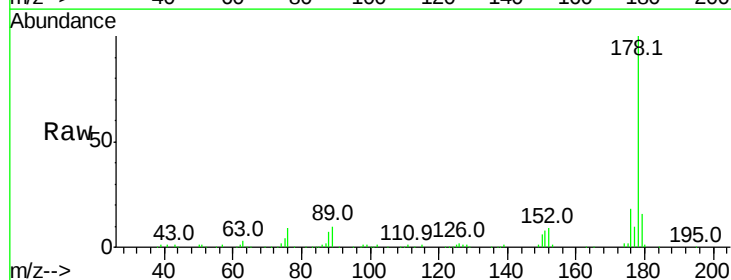
Instrument :
BNA_F
ClientSampleId :

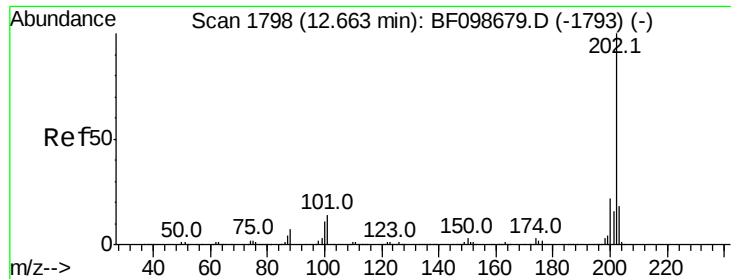
Tot Ion:178 Resp: 516379
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 15.4 13.0 19.6



#71
Anthracene
Concen: 4.101 ng
RT: 11.51 min Scan# 1602
Delta R.T. -0.02 min
Lab File: BF098821.D
Acq: 26 Sep 2017 9:56

Tgt Ion:178 Resp: 104508
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.2
179 16.0 12.6 19.0





#74

Fluoranthene

Concen: 22.317 ng

RT: 12.65 min Scan# 1796

Delta R.T. -0.01 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

Instrument :

BNA_F

ClientSampleId :

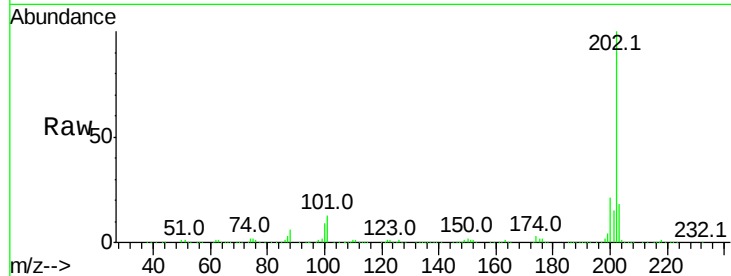
Tot Ion:202 Resp: 562809

Ion Ratio Lower Upper

202 100

101 13.2 0.0 34.1

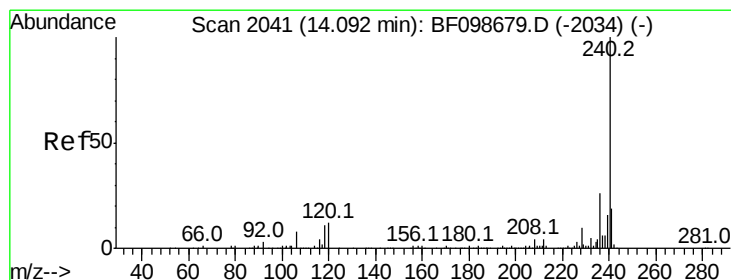
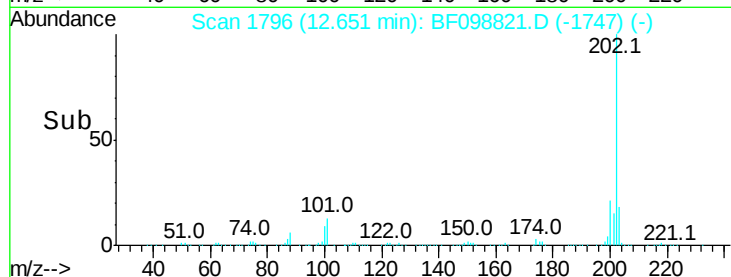
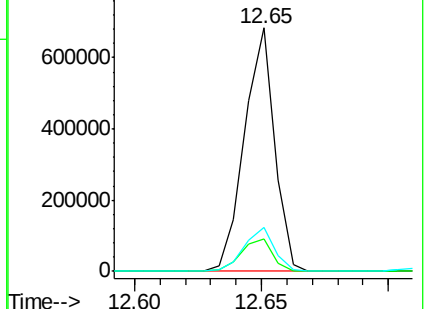
203 18.0 0.0 38.1



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: 14.07 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

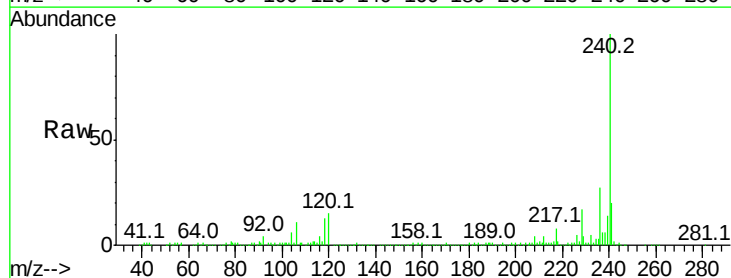
Tgt Ion:240 Resp: 264157

Ion Ratio Lower Upper

240 100

120 15.1 9.5 14.3#

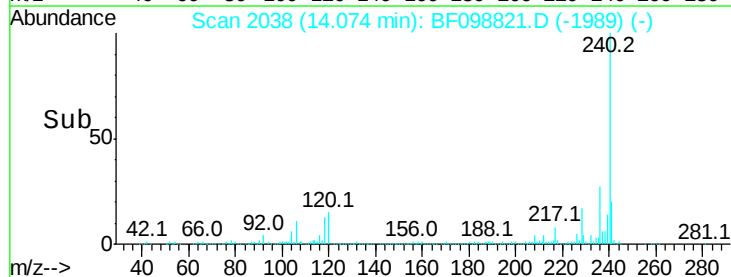
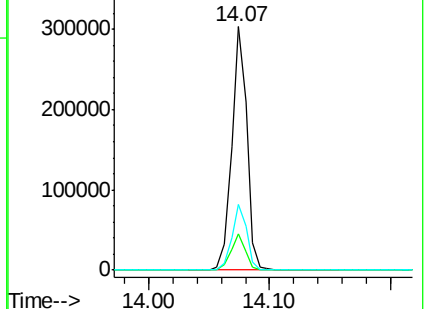
236 26.8 20.7 31.1

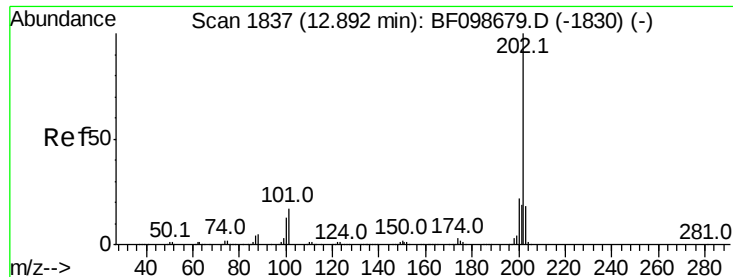


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 23.171 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

Instrument :

BNA_F

ClientSampleId :

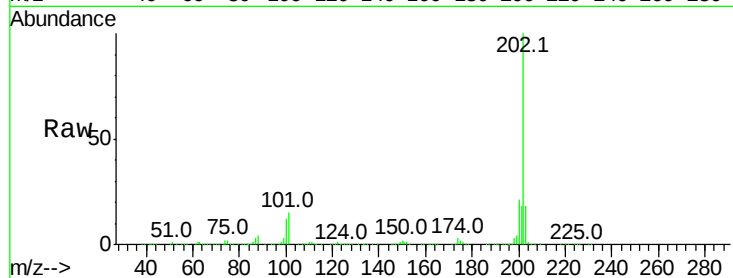
Tot Ion:202 Resp: 466735

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

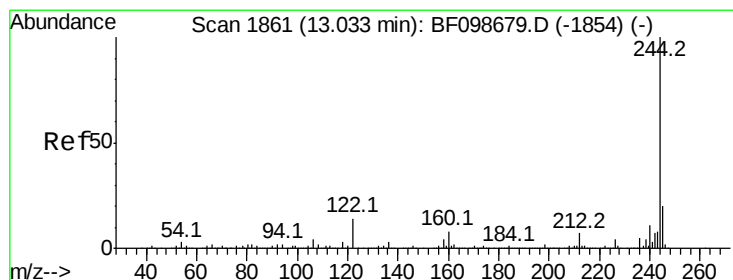
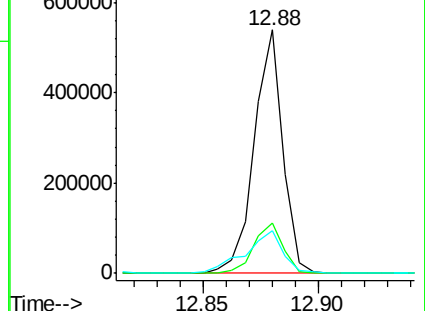
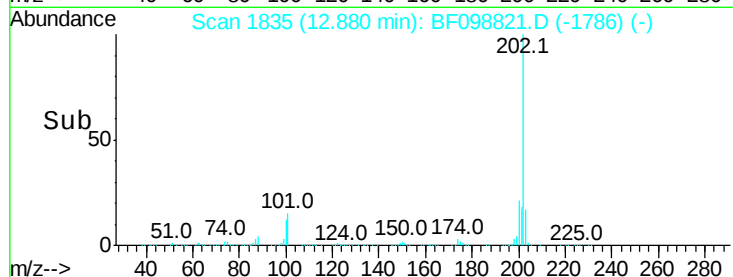
203 17.6 14.3 21.5



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: 15.704 ng

RT: 13.02 min Scan# 1858

Delta R.T. -0.02 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

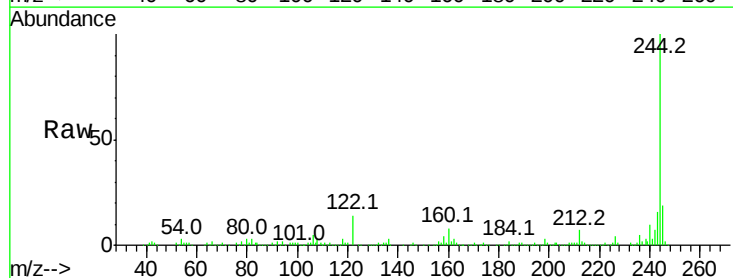
Tgt Ion:244 Resp: 182406

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

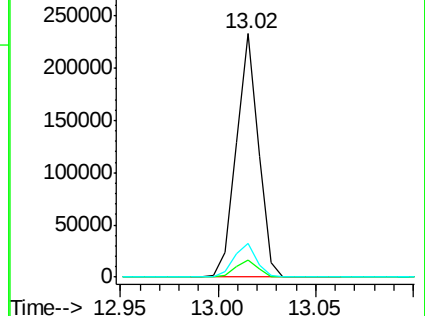
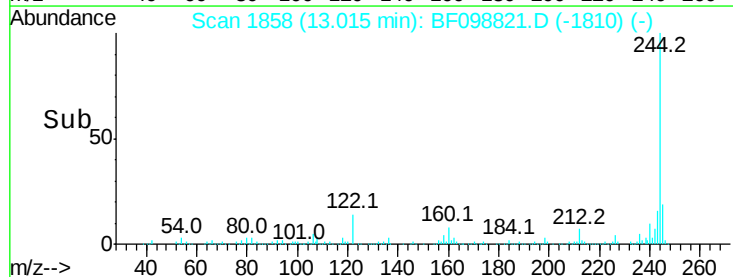
122 13.9 11.0 16.4

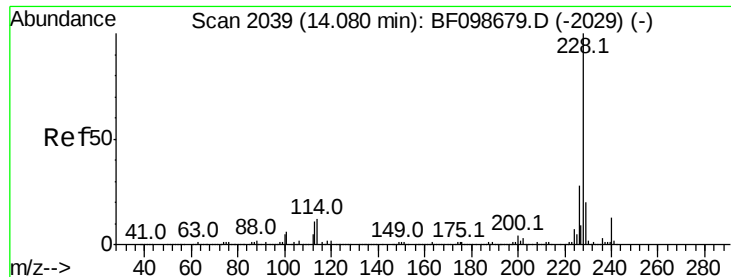


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 13.501 ng

RT: 14.06 min Scan# 2036

Delta R.T. -0.01 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

Instrument :

BNA_F

ClientSampled :

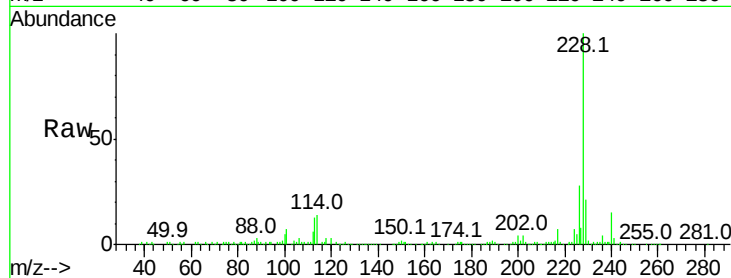
Tot Ion:228 Resp: 215955

Ion Ratio Lower Upper

228 100

226 27.8 22.6 33.8

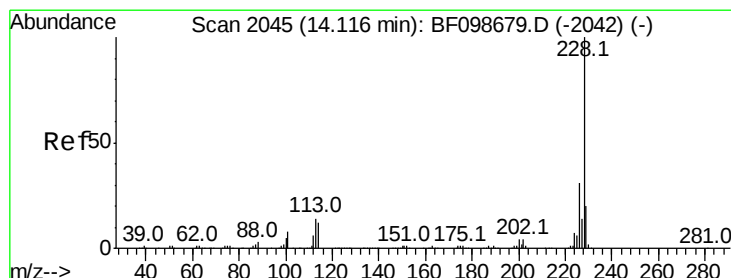
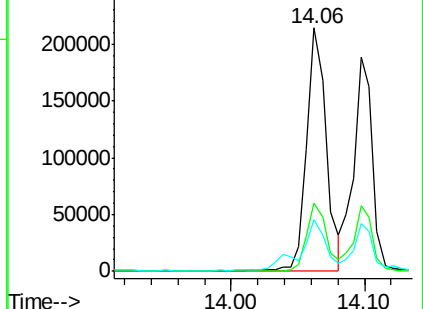
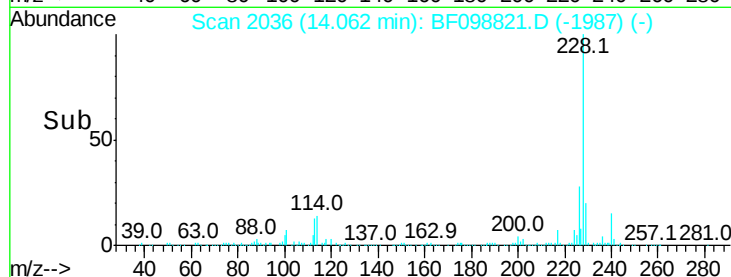
229 21.0 15.8 23.6



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: 12.197 ng

RT: 14.10 min Scan# 2042

Delta R.T. -0.02 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

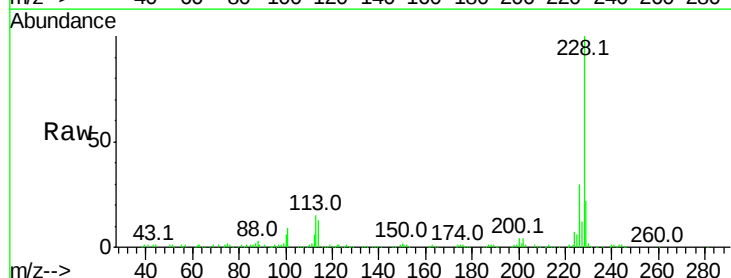
Tgt Ion:228 Resp: 185735

Ion Ratio Lower Upper

228 100

226 30.4 25.0 37.6

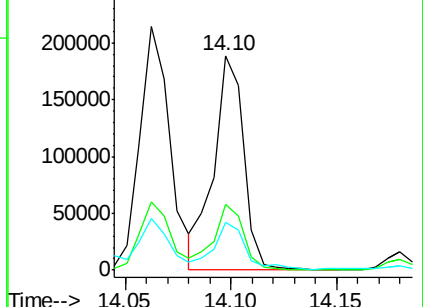
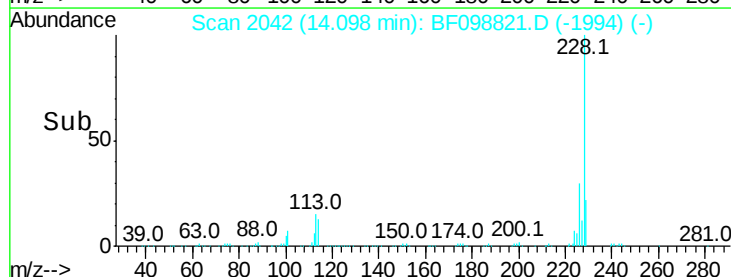
229 22.1 16.2 24.4

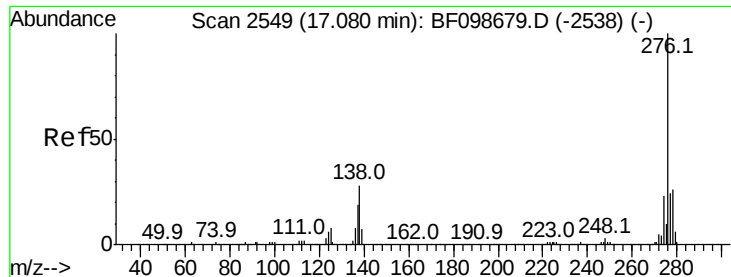


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

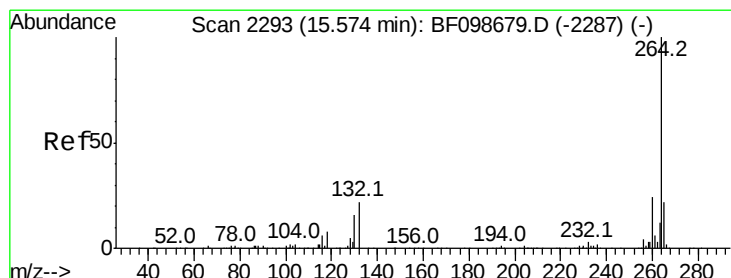
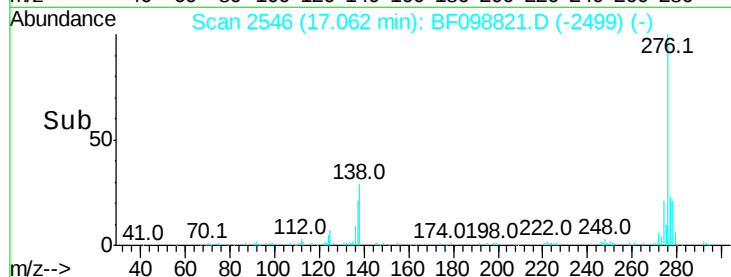
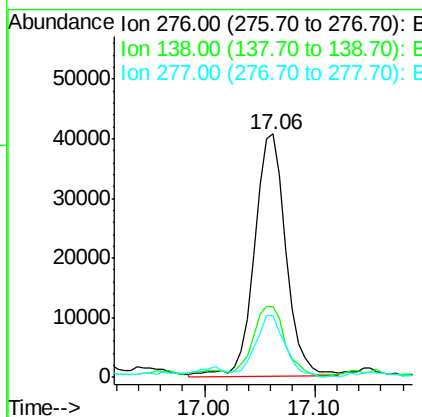
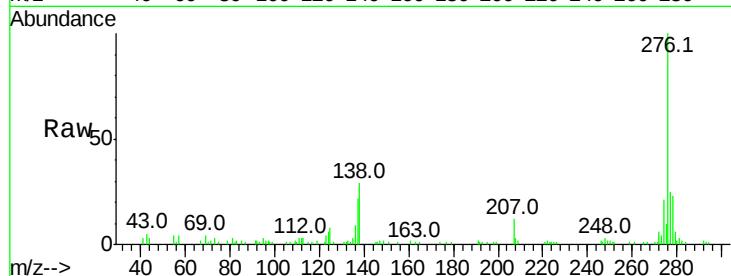




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.677 ng
 RT: 17.06 min Scan# 2546
 Delta R.T. -0.02 min
 Lab File: BF098821.D
 Acq: 26 Sep 2017 9:56

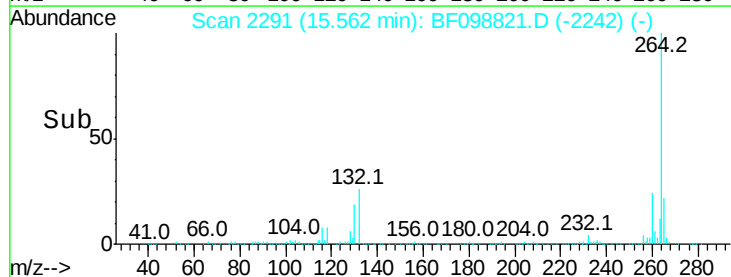
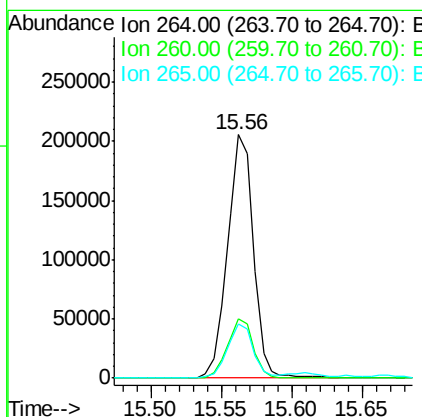
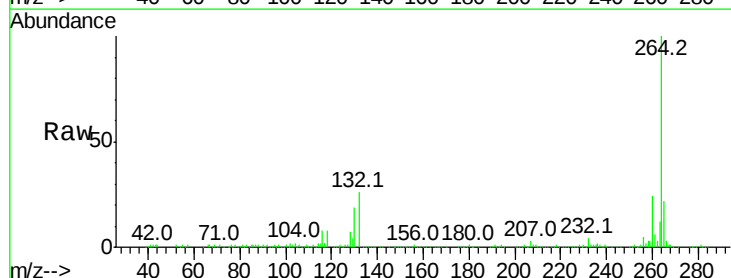
Instrument :
 BNA_F
 ClientSampled :

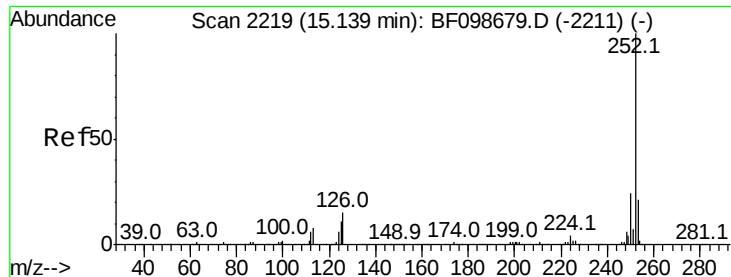
Tot Ion:276 Resp: 81334
 Ion Ratio Lower Upper
 276 100
 138 27.7 25.0 37.6
 277 24.2 20.1 30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.56 min Scan# 2291
 Delta R.T. -0.01 min
 Lab File: BF098821.D
 Acq: 26 Sep 2017 9:56

Tgt Ion:264 Resp: 262820
 Ion Ratio Lower Upper
 264 100
 260 24.2 19.2 28.8
 265 22.2 17.5 26.3

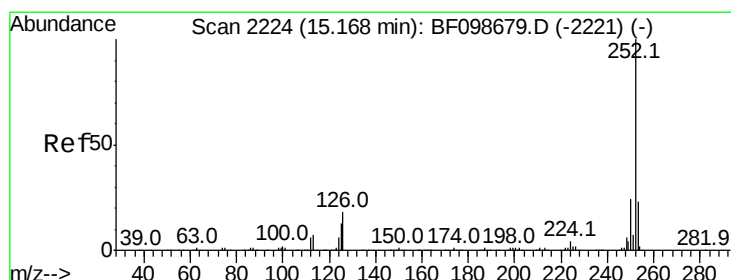
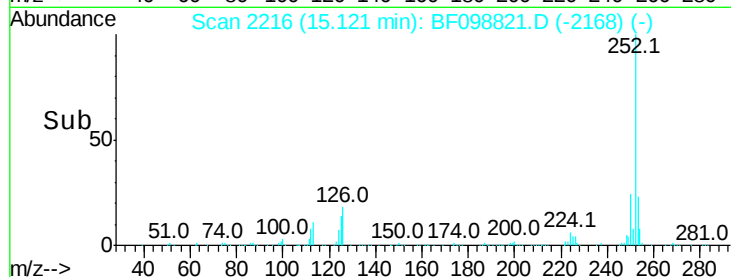
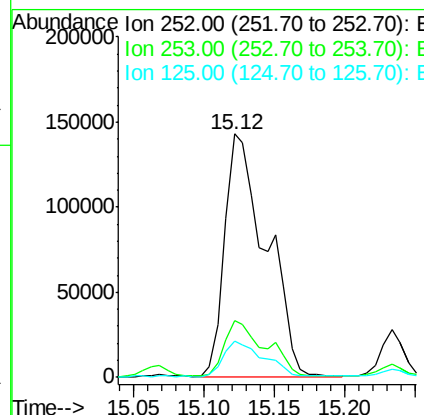
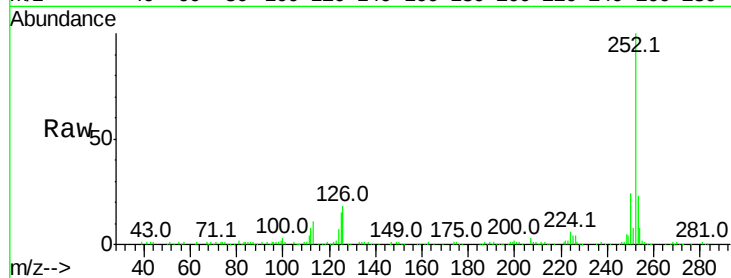




#87
Benzo(b)fluoranthene
Concen: 18.088 ng
RT: 15.12 min Scan# 2216
Delta R.T. -0.02 min
Lab File: BF098821.D
Acq: 26 Sep 2017 9:56

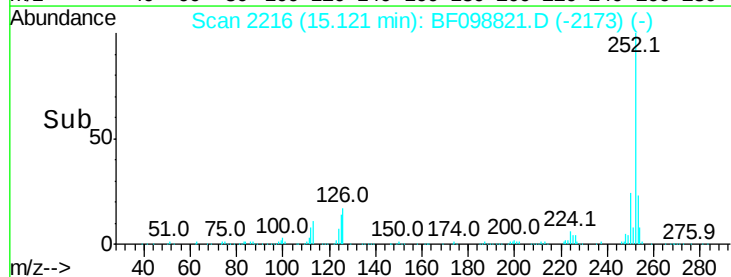
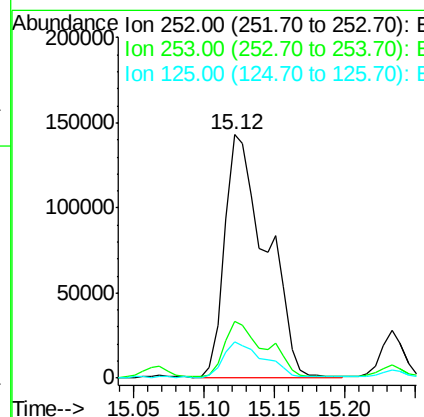
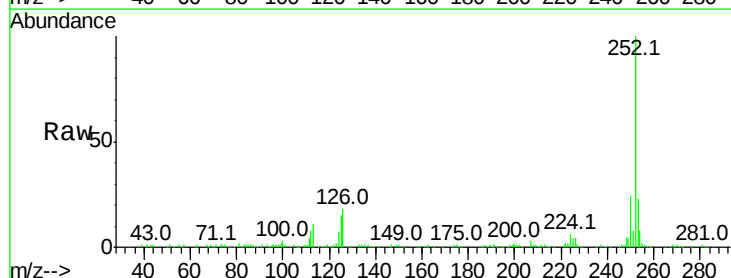
Instrument :
BNA_F
ClientSampleId :

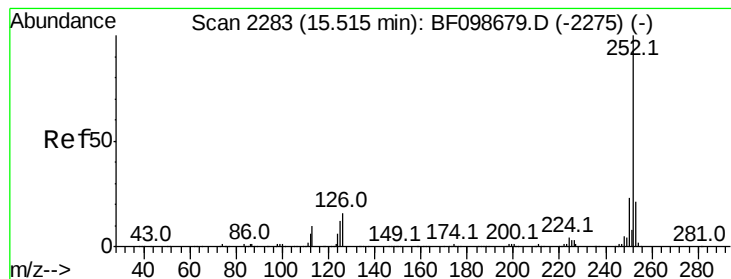
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	14.7	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 18.313 ng
RT: 15.12 min Scan# 2216
Delta R.T. -0.05 min
Lab File: BF098821.D
Acq: 26 Sep 2017 9:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.9	26.9
125	14.7	10.2	15.2





#89

Benzo(a)pyrene

Concen: 10.260 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.02 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

Instrument :

BNA_F

ClientSampleId :

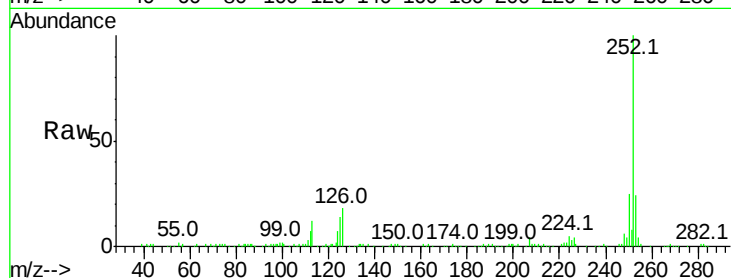
Tot Ion:252 Resp: 152192

Ion Ratio Lower Upper

252 100

253 23.6 17.1 25.7

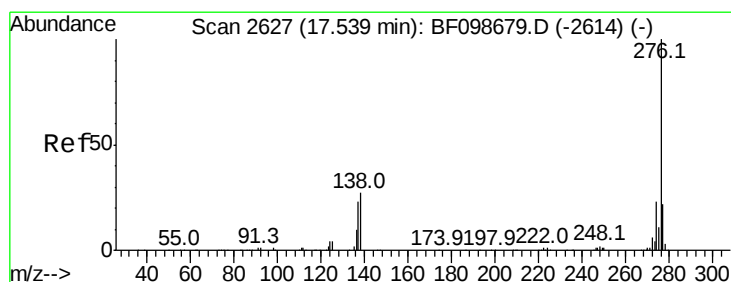
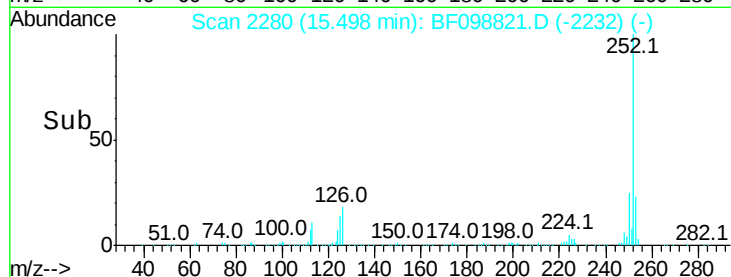
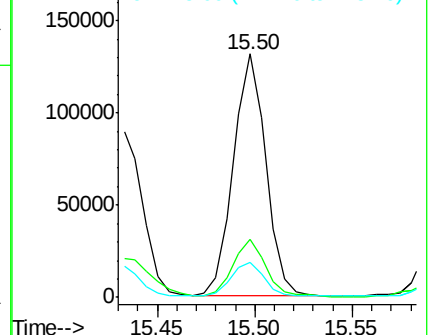
125 14.5 9.8 14.6



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



#91

Benzo(g,h,i)perylene

Concen: 6.311 ng

RT: 17.52 min Scan# 2623

Delta R.T. -0.03 min

Lab File: BF098821.D

Acq: 26 Sep 2017 9:56

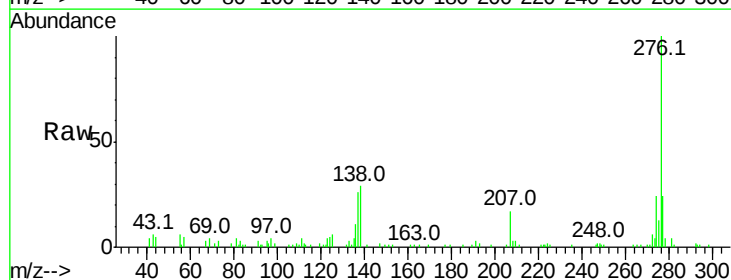
Tgt Ion:276 Resp: 74057

Ion Ratio Lower Upper

276 100

277 24.0 17.9 26.9

138 29.4 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

