

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101217\
 Data File : BF099404.D
 Acq On : 12 Oct 2017 19:36
 Operator : SJ/JU
 Sample : I5729-05 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 13 00:54:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 16:25:21 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	112169	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	432979	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	175084	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	253626	20.00	ng	0.00
75) Chrysene-d12	14.02	240	206588	20.00	ng	0.00
86) Perylene-d12	15.49	264	182395	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	135501	19.23	ng	0.00
7) Phenol-d6	6.48	99	164748	18.95	ng	0.00
23) Nitrobenzene-d5	7.41	82	91577	13.56	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	23098	16.12	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	167776	16.00	ng	0.00
78) Terphenyl-d14	12.95	244	99273	10.93	ng	0.00

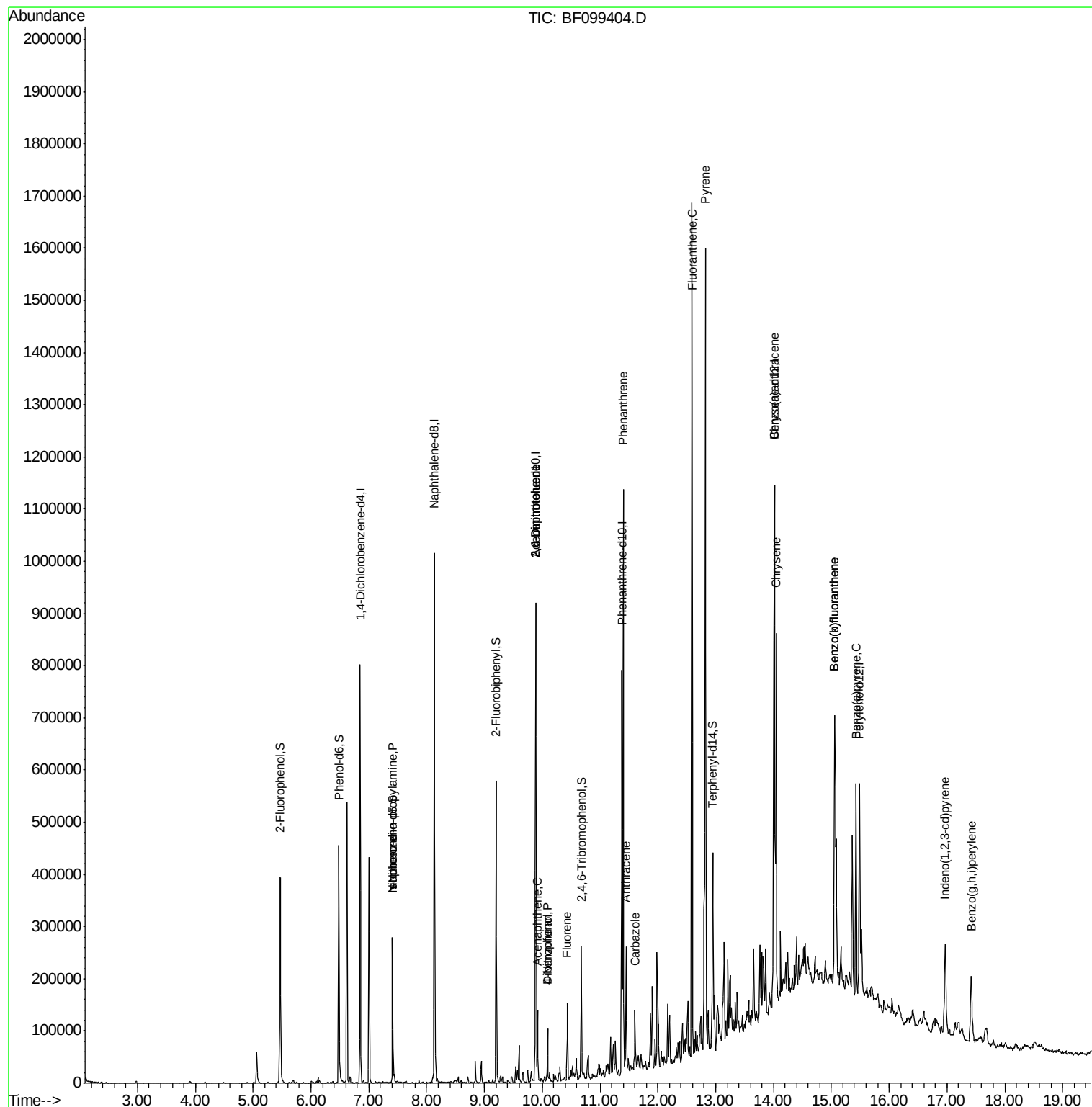
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.41	70	11283	2.03	ng	# 77
25) Isophorone	7.41	82	91576	6.56	ng	# 64
50) 2,6-Dinitrotoluene	9.89	165	23183	8.06	ng	# 26
51) Acenaphthene	9.92	154	29641	2.71	ng	100
54) Dibenzofuran	10.09	168	34521	2.37	ng	98
55) 4-Nitrophenol	10.09	139	13407	4.73	ng	# 10
56) 2,4-Dinitrotoluene	9.89	165	23183	6.21	ng	# 23
57) Fluorene	10.43	166	37108	3.17	ng	97
70) Phenanthrene	11.40	178	389113	28.66	ng	98
71) Anthracene	11.45	178	87942	6.33	ng	99
72) Carbazole	11.61	167	45767	3.36	ng	99
74) Fluoranthene	12.59	202	610735	44.43	ng	99
77) Pvrene	12.82	202	597933	37.96	ng	99
80) Benzo(a)anthracene	14.01	228	275455	22.02	ng	99
82) Chrysene	14.04	228	264582	22.22	ng	98
85) Indeno(1,2,3-cd)pyrene	16.97	276	96501	10.13	ng	98
87) Benzo(b)fluoranthene	15.06	252	387447	34.55	ng	# 95
88) Benzo(k)fluoranthene	15.06	252	387447	34.98	ng	98
89) Benzo(a)pvrene	15.43	252	176682	17.16	ng	# 94
91) Benzo(a,h,i)perylene	17.42	276	92238	11.33	ng	92

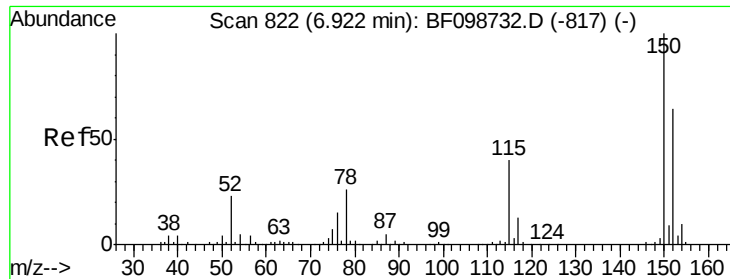
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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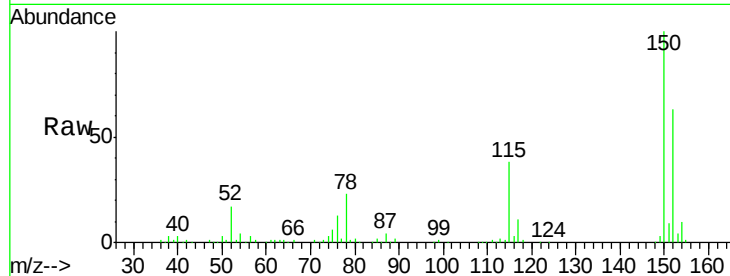


#1

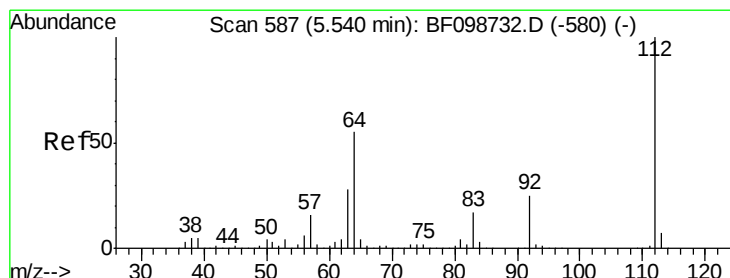
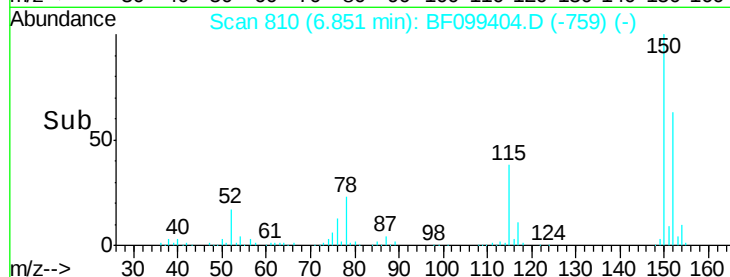
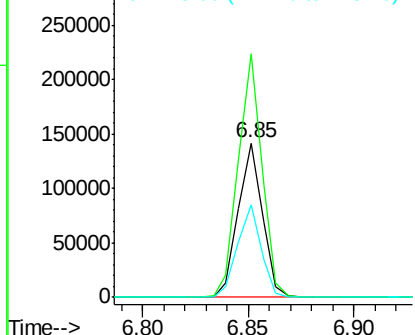
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.0	124.6	186.8
115	60.3	50.1	75.1



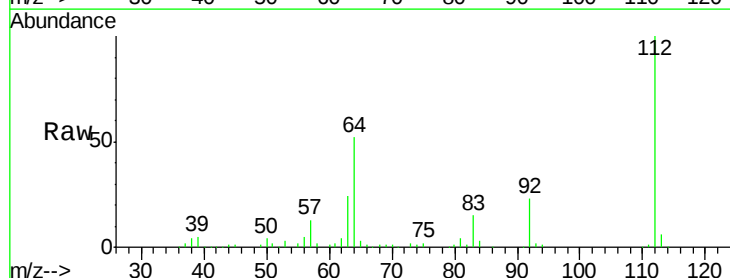
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



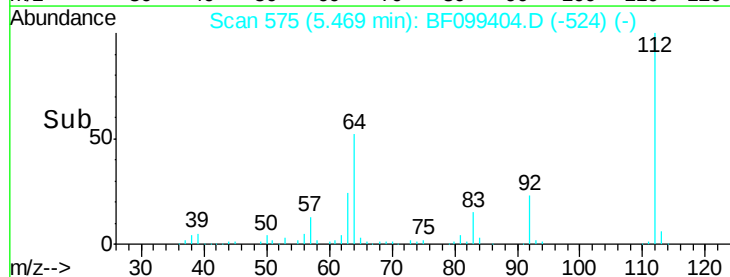
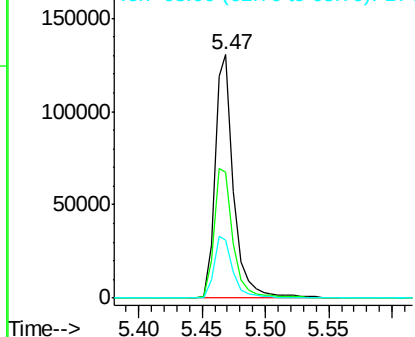
#5

2-Fluorophenol
Concen: 19.23 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.00 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.9	47.9	71.9
63	23.9	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: 18.95 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF099404.D

Acq: 12 Oct 2017 19:36

Instrument :

BNA_F

ClientSampleId :

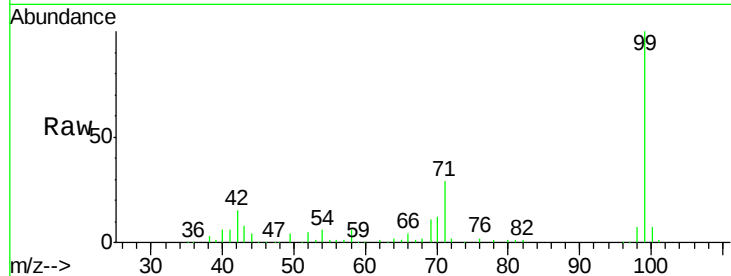
Tot Ion: 99 Resp: 164748

Ion Ratio Lower Upper

99 100

42 15.0 14.5 21.7

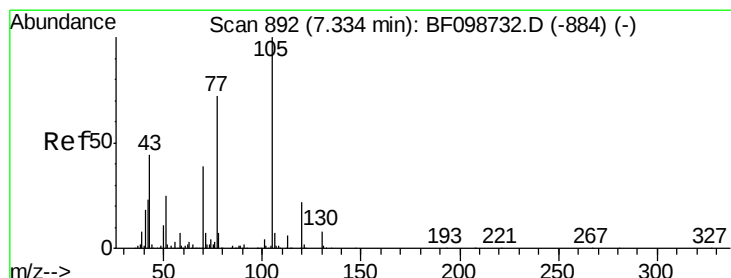
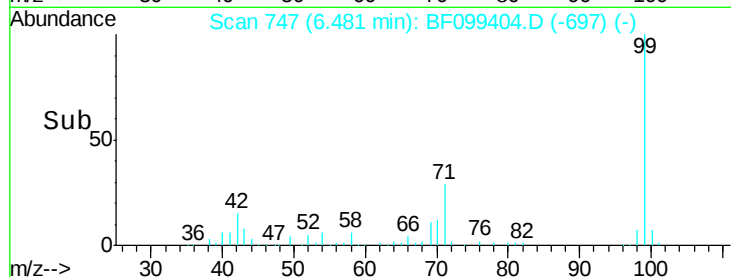
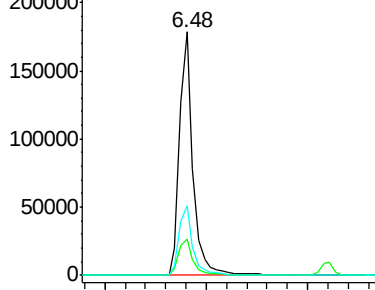
71 28.8 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.03 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF099404.D

Acq: 12 Oct 2017 19:36

Tgt Ion: 70 Resp: 11283

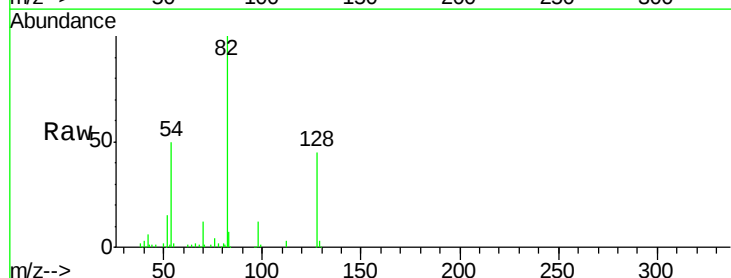
Ion Ratio Lower Upper

70 100

42 46.8 47.5 71.3#

101 0.0 7.4 11.2#

130 2.6 16.6 25.0#

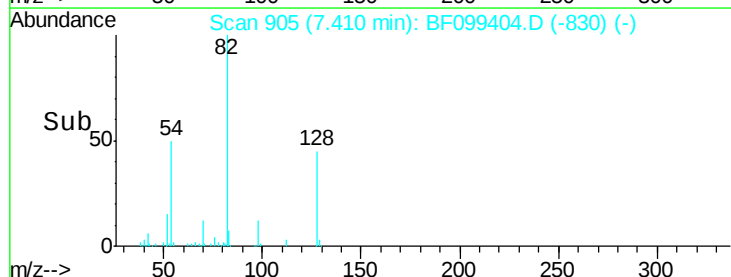
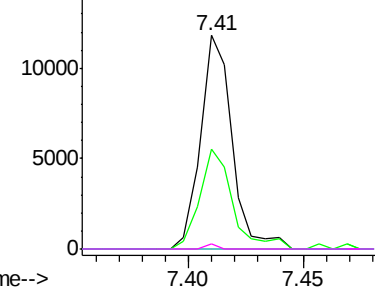


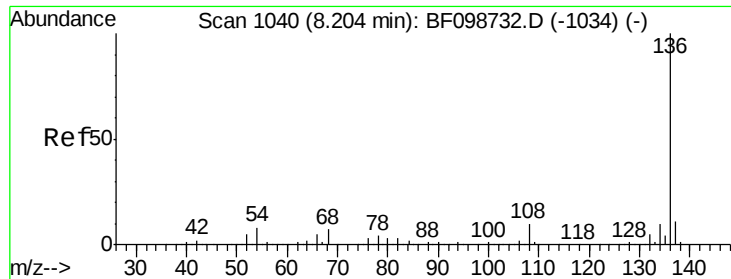
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

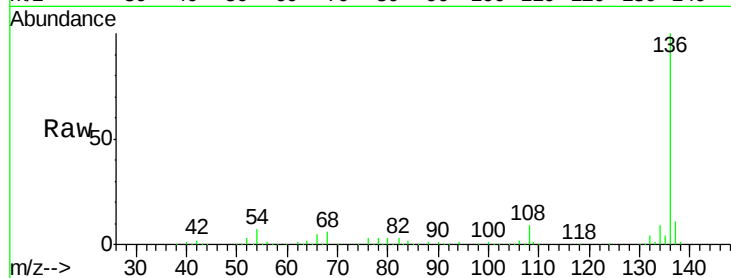




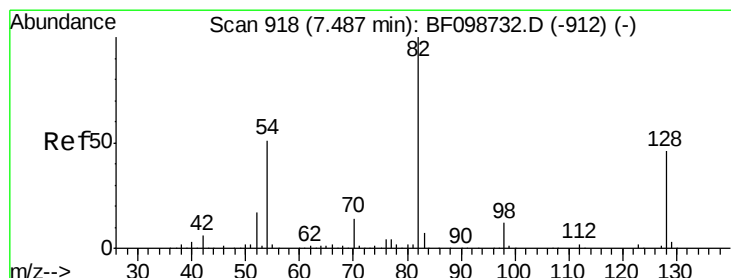
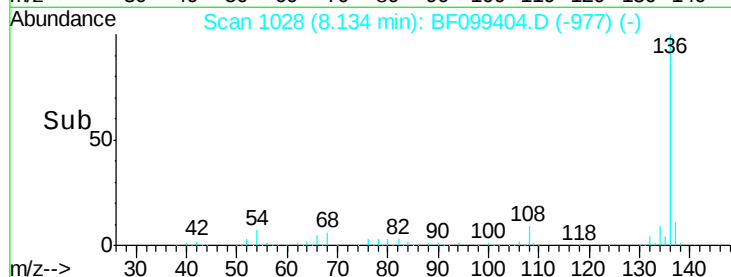
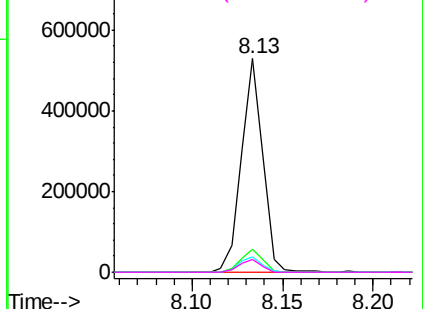
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	432979
Ion Ratio	Lower	Upper
136	100	
137	11.0	8.9 13.3
54	7.3	6.6 9.8
68	6.0	5.0 7.4

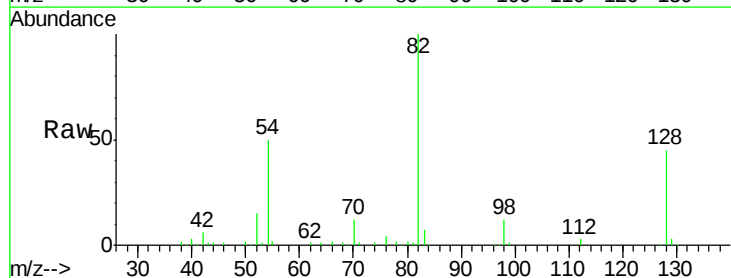


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

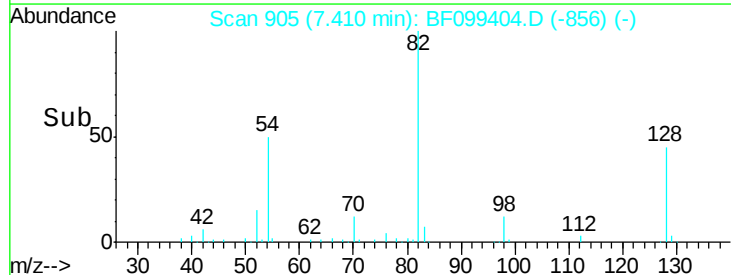
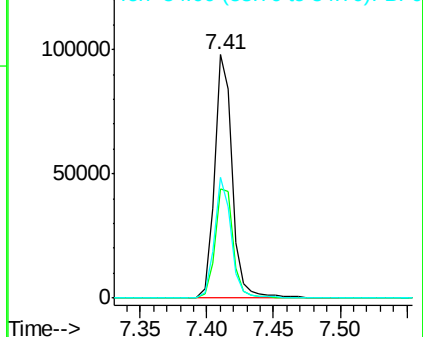


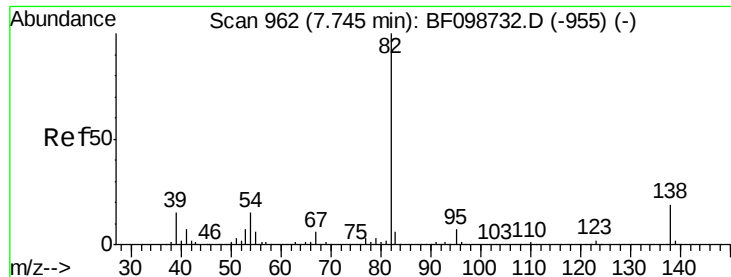
#23
Nitrobenzene-d5
Concen: 13.56 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

Tgt Ion: 82	Resp:	91577
Ion Ratio	Lower	Upper
82	100	
128	45.1	36.1 54.1
54	49.5	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: 6.56 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF099404.D

Acq: 12 Oct 2017 19:36

Instrument :

BNA_F

ClientSampled :

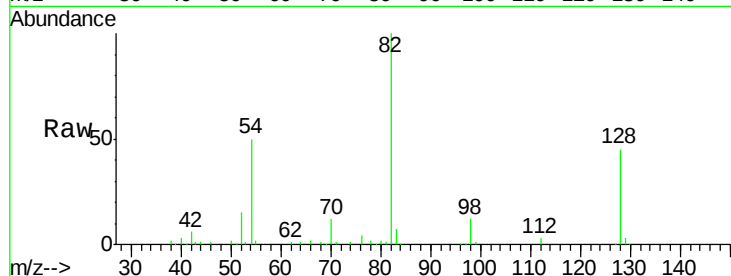
Tot Ion: 82 Resp: 91576

Ion Ratio Lower Upper

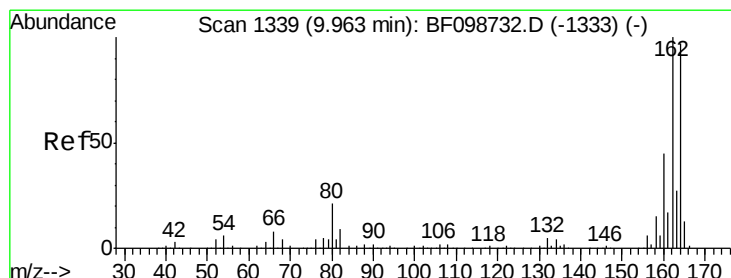
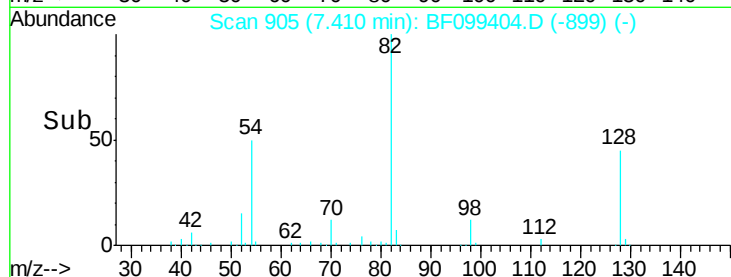
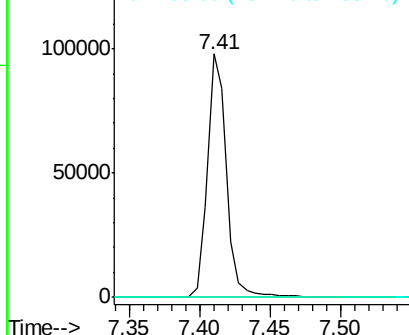
82 100

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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BF099404.D

Acq: 12 Oct 2017 19:36

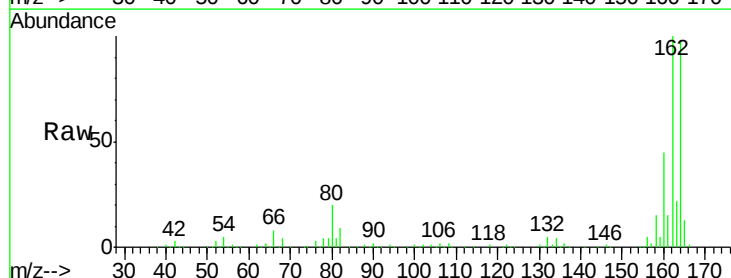
Tgt Ion: 164 Resp: 175084

Ion Ratio Lower Upper

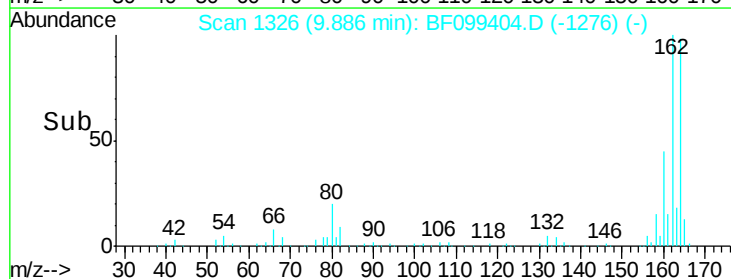
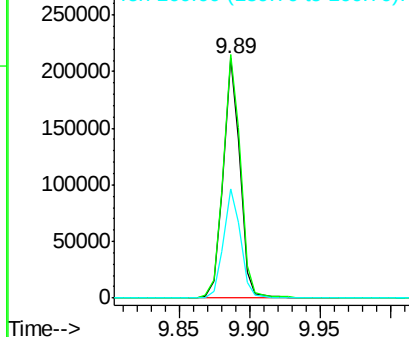
164 100

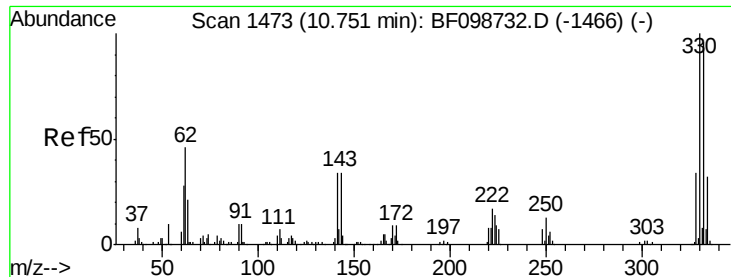
162 101.6 86.1 129.1

160 45.8 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

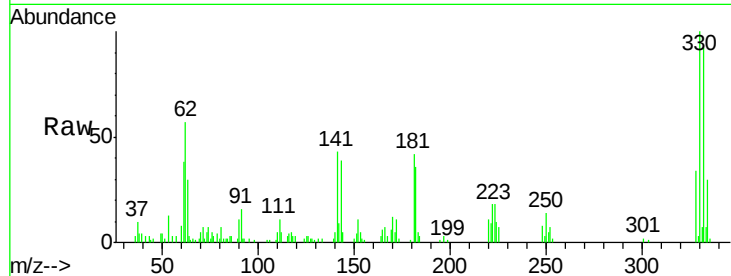




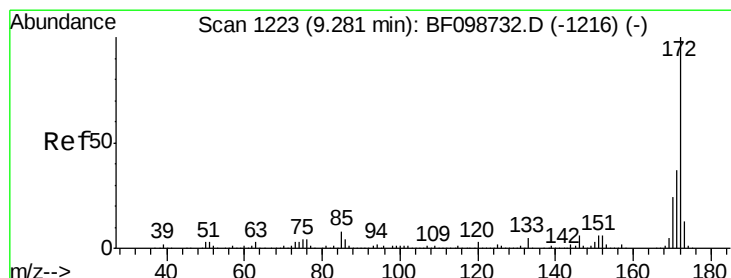
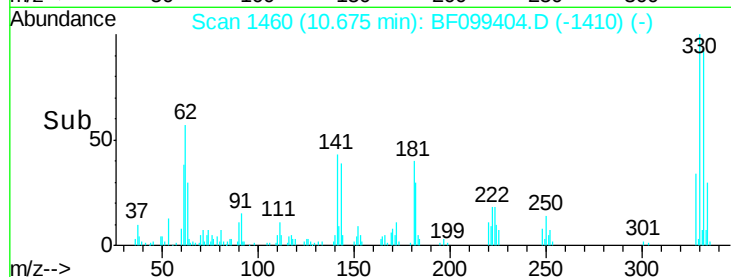
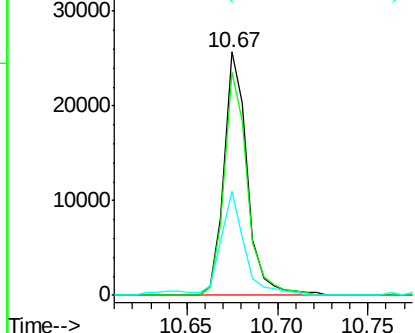
#41
 2,4,6-Tribromophenol
 Concen: 16.12 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: BF099404.D
 Acq: 12 Oct 2017 19:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	92.2	77.0	115.6
141	42.5	29.9	44.9

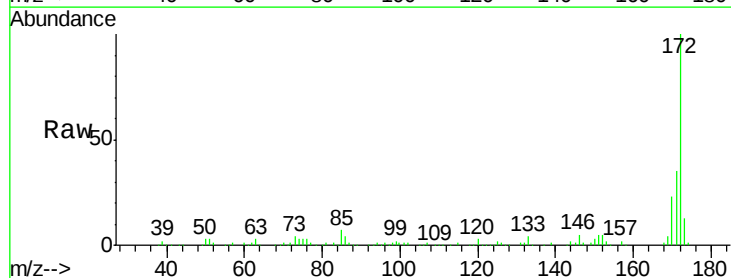


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

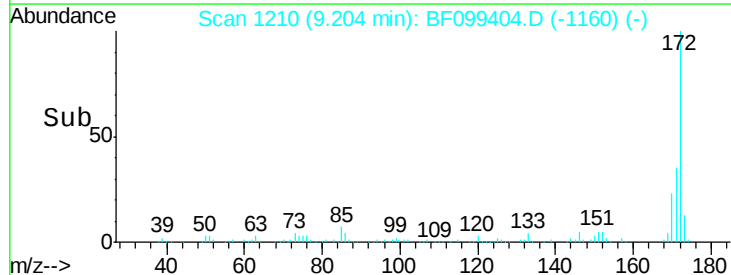
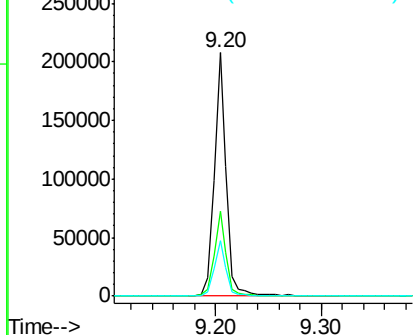


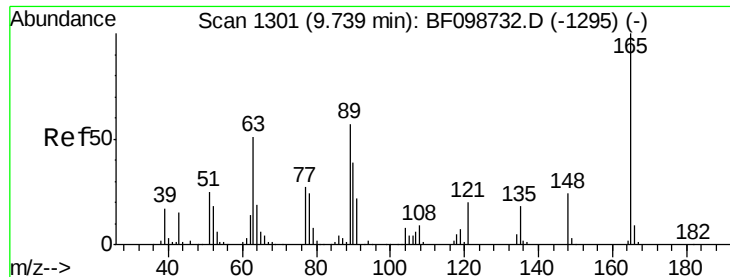
#44
 2-Fluorobiphenyl
 Concen: 16.00 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF099404.D
 Acq: 12 Oct 2017 19:36

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.7	44.5
170	22.6	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

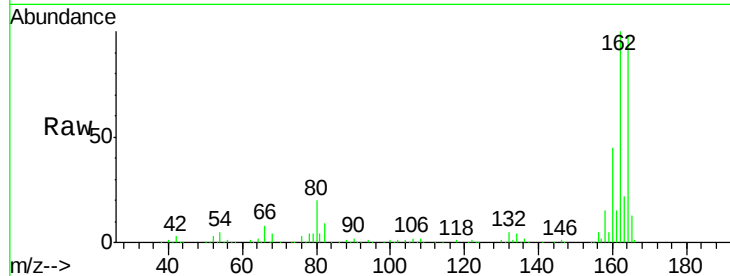




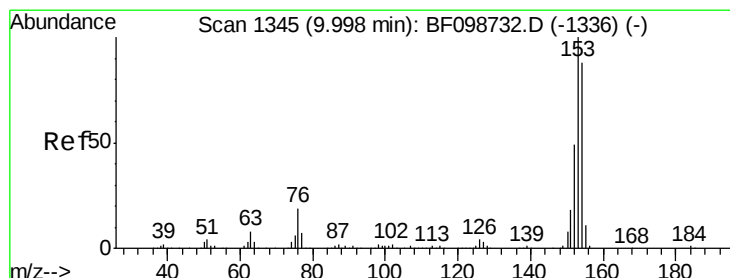
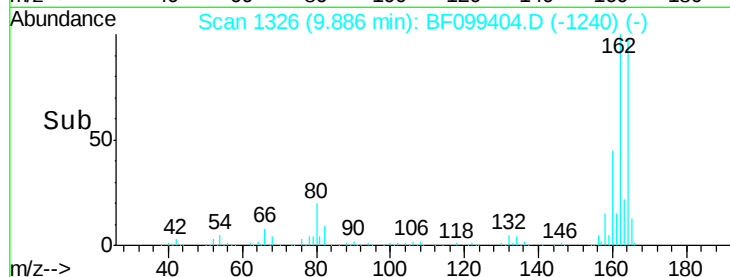
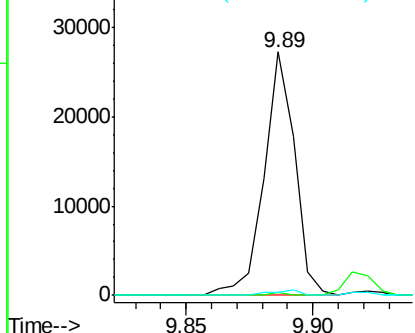
#50
 2,6-Dinitrotoluene
 Concen: 8.06 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. 0.21 min
 Lab File: BF099404.D
 Acq: 12 Oct 2017 19:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.5	44.7	67.1#
89	1.5	44.0	66.0#

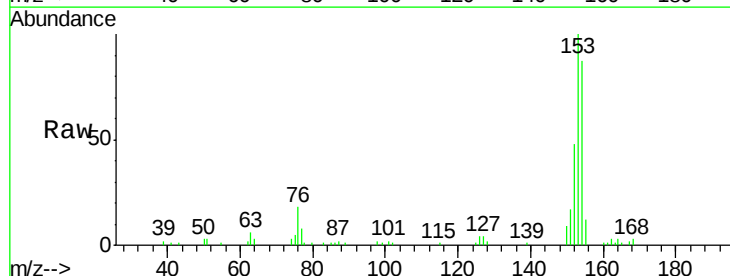


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

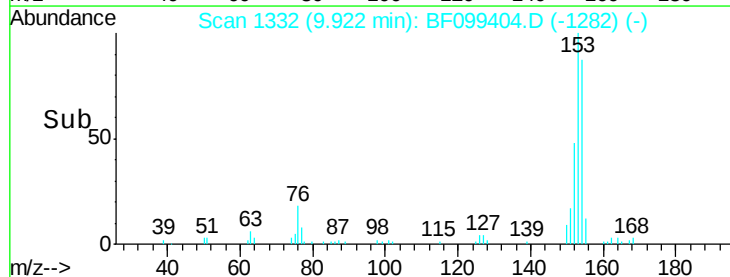
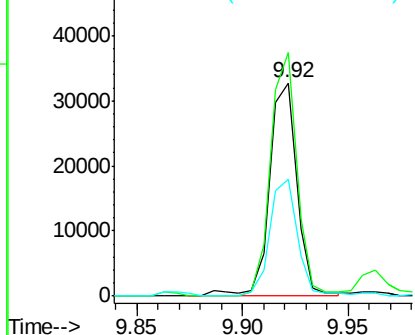


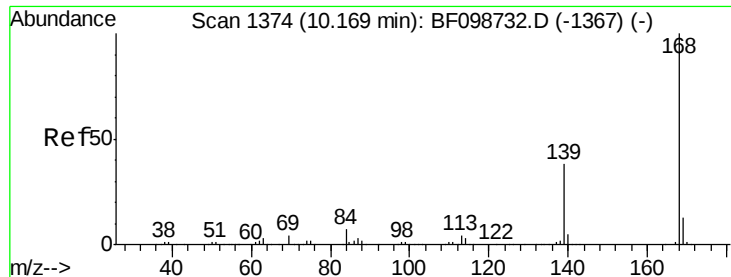
#51
 Acenaphthene
 Concen: 2.71 ng
 RT: 9.92 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: BF099404.D
 Acq: 12 Oct 2017 19:36

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.4	91.2	136.8
152	55.2	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

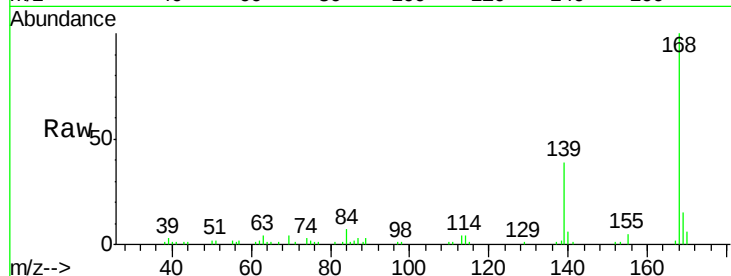




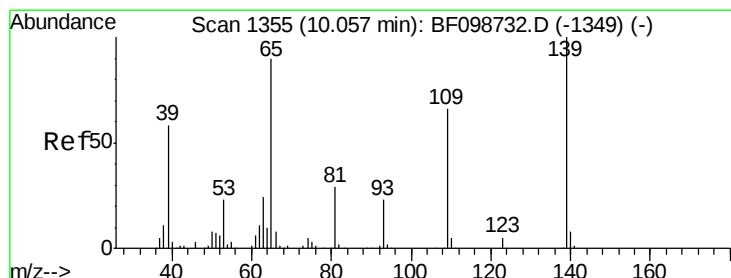
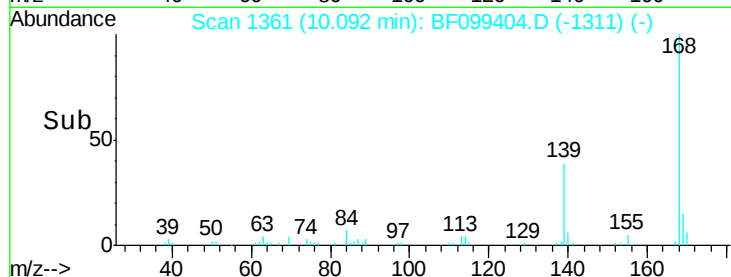
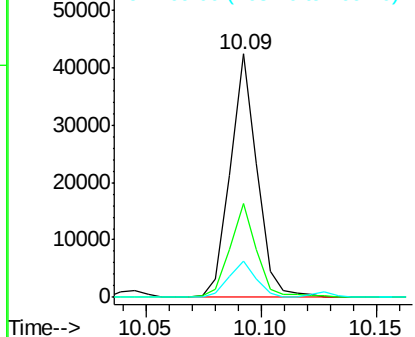
#54
Dibenzofuran
Concen: 2.37 ng
RT: 10.09 min Scan# 1361
Delta R.T. -0.01 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

Instrument :
BNA_F
ClientSampled :

Tot Ion:168 Resp: 34521
Ion Ratio Lower Upper
168 100
139 38.8 30.1 45.1
169 14.7 10.9 16.3

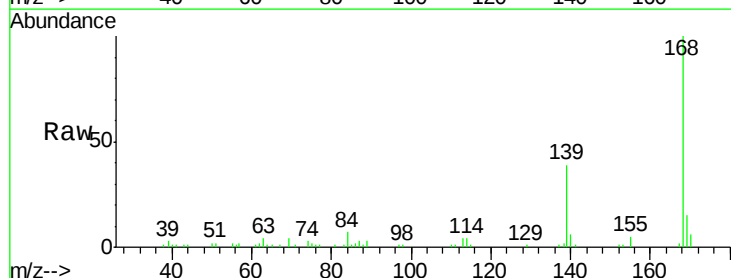


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

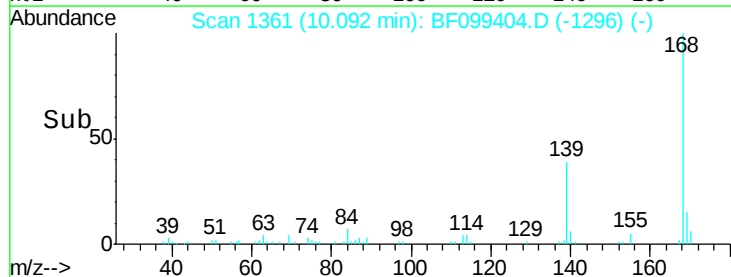
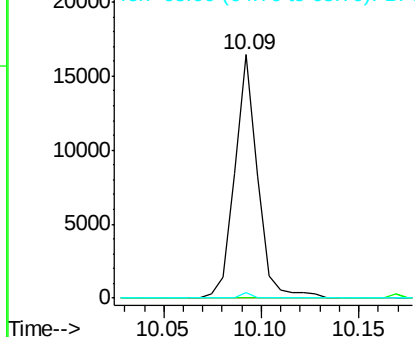


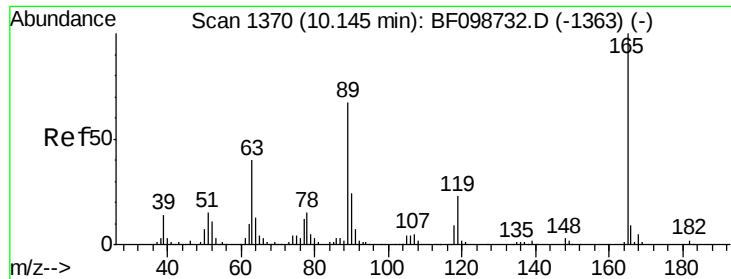
#55
4-Nitrophenol
Concen: 4.73 ng
RT: 10.09 min Scan# 1361
Delta R.T. 0.08 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

Tgt Ion:139 Resp: 13407
Ion Ratio Lower Upper
139 100
109 0.0 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

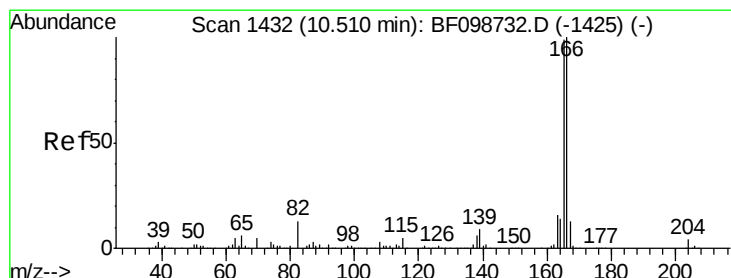
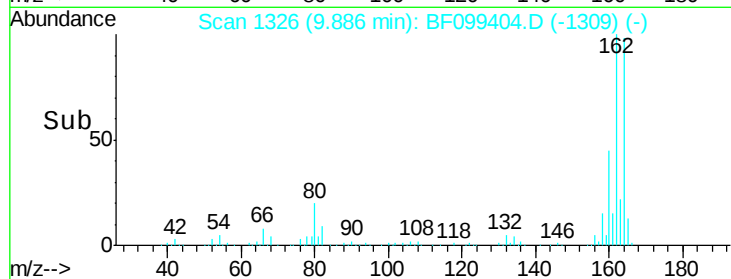
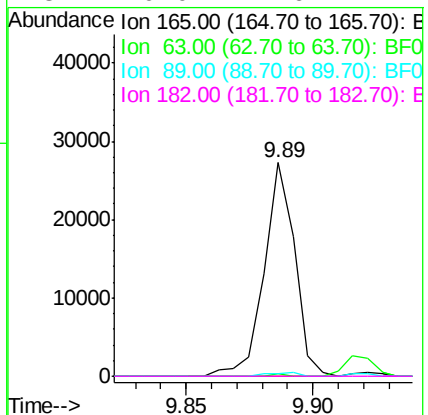
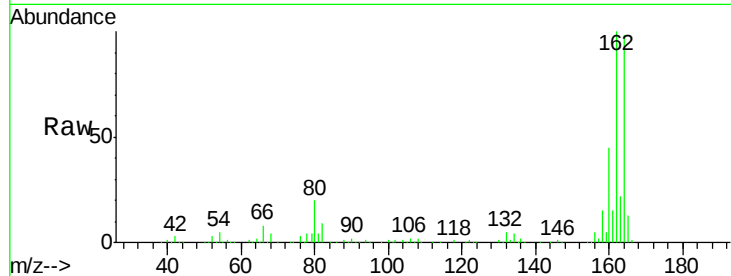




#56
2,4-Dinitrotoluene
Concen: 6.21 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.20 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

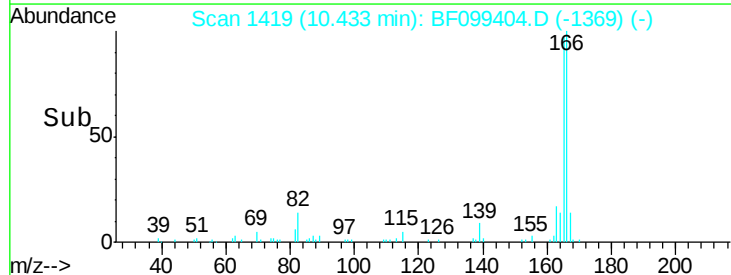
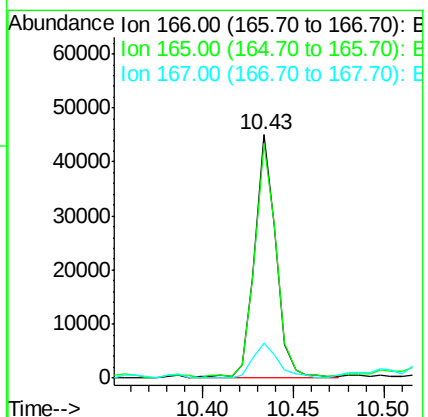
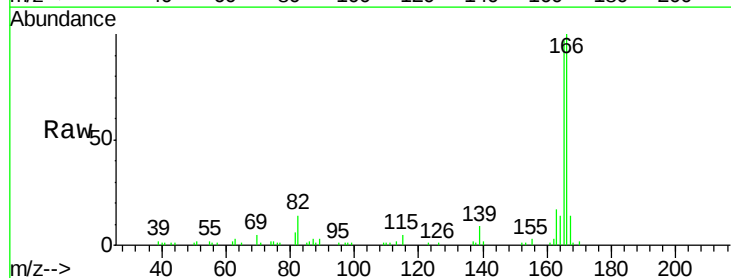
Instrument :
BNA_F
ClientSampleId :

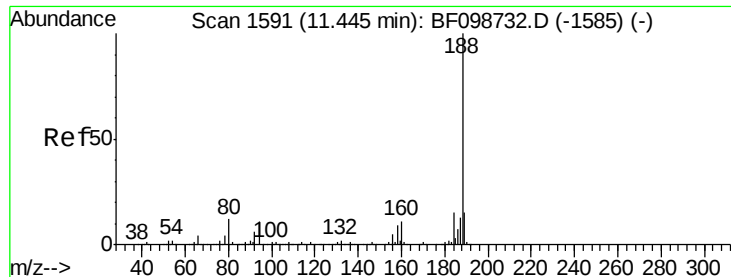
Tot Ion:	165	Resp:	23183
Ion	Ratio	Lower	Upper
165	100		
63	1.5	36.4	54.6#
89	1.5	57.8	86.6#
182	0.0	1.6	2.4#



#57
Fluorene
Concen: 3.17 ng
RT: 10.43 min Scan# 1419
Delta R.T. -0.01 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

Tgt Ion:	166	Resp:	37108
Ion	Ratio	Lower	Upper
166	100		
165	96.5	79.8	119.8
167	14.4	10.6	16.0

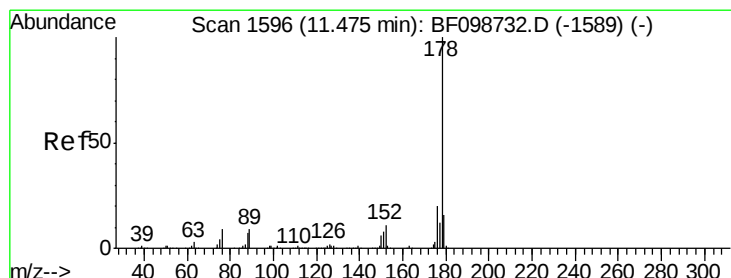
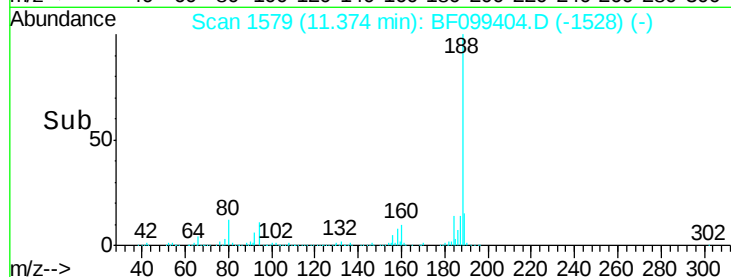
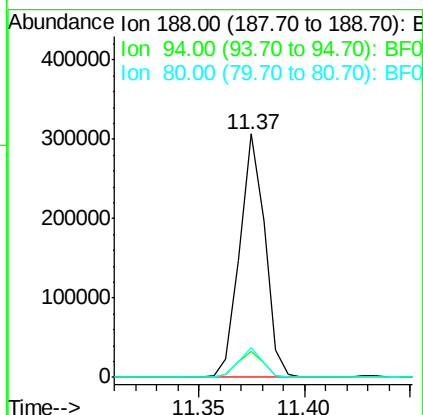
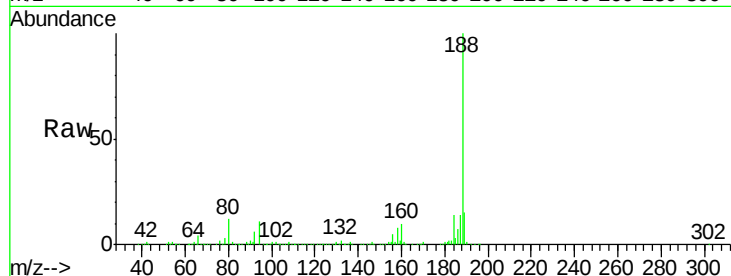




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

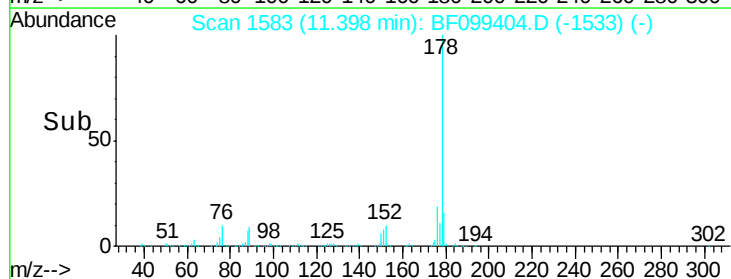
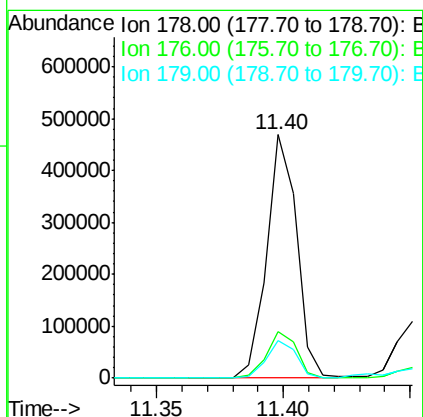
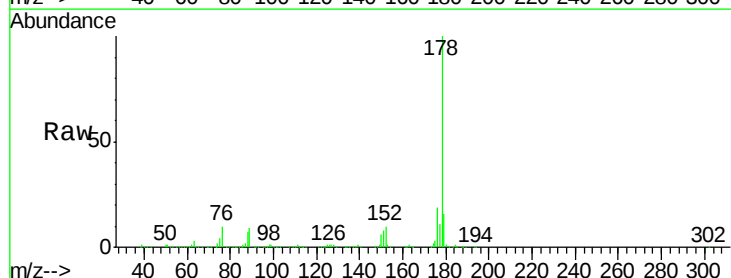
Instrument :
BNA_F
ClientSampleId :

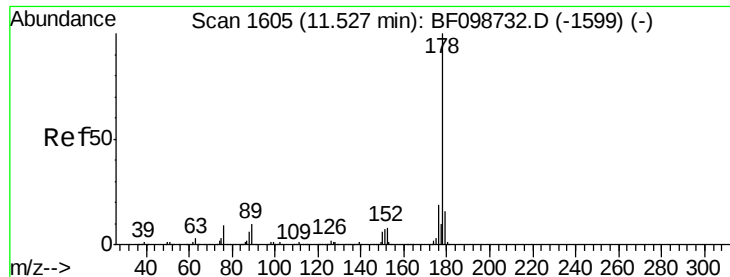
Tot Ion:188 Resp: 253626
Ion Ratio Lower Upper
188 100
94 10.6 8.5 12.7
80 12.1 9.2 13.8



#70
Phenanthrene
Concen: 28.66 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

Tgt Ion:178 Resp: 389113
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.8
179 15.5 13.0 19.6

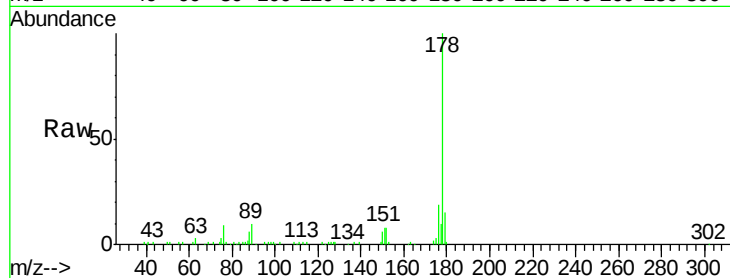




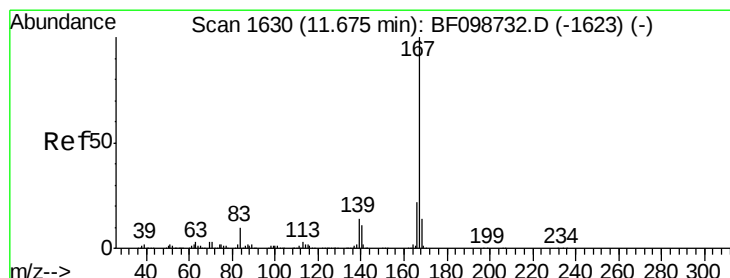
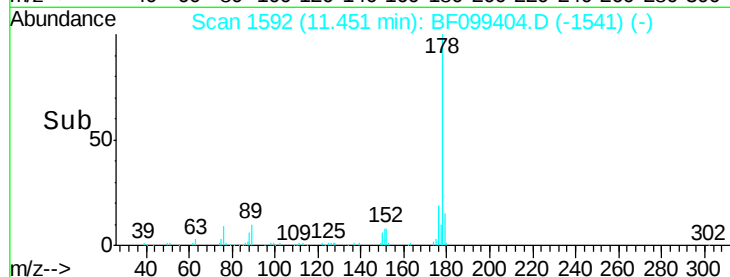
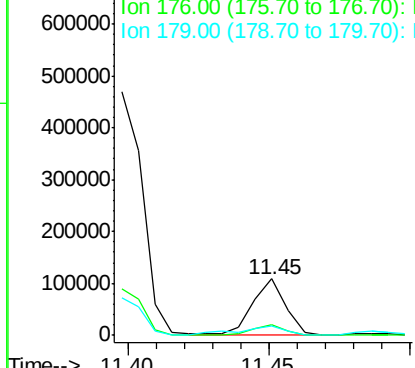
#71
 Anthracene
 Concen: 6.33 ng
 RT: 11.45 min Scan# 1592
 Delta R.T. 0.00 min
 Lab File: BF099404.D
 Acq: 12 Oct 2017 19:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 87942
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.4 23.2
 179 15.4 12.6 19.0

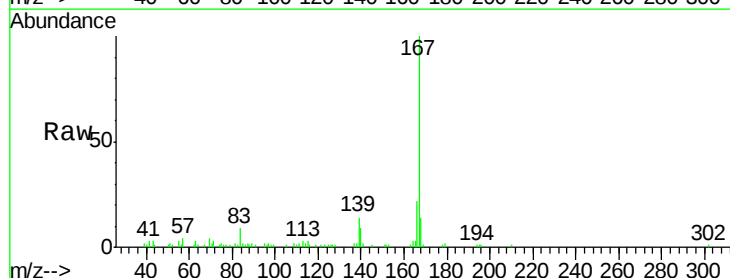


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

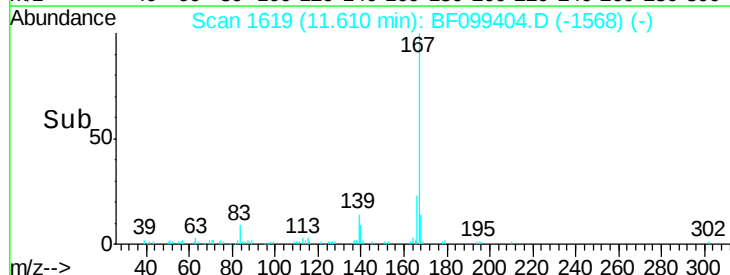
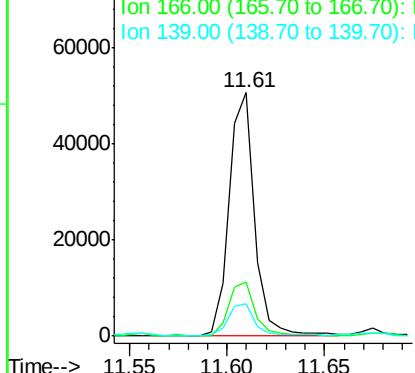


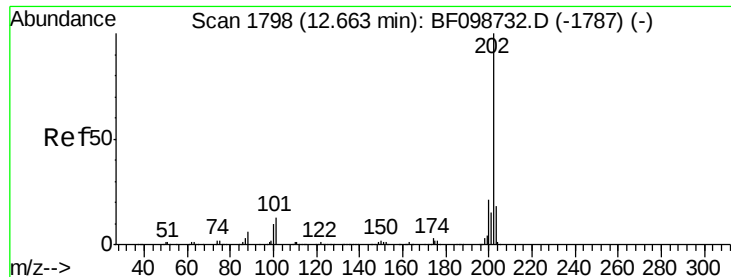
#72
 Carbazole
 Concen: 3.36 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. 0.00 min
 Lab File: BF099404.D
 Acq: 12 Oct 2017 19:36

Tgt Ion:167 Resp: 45767
 Ion Ratio Lower Upper
 167 100
 166 22.5 17.6 26.4
 139 13.6 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

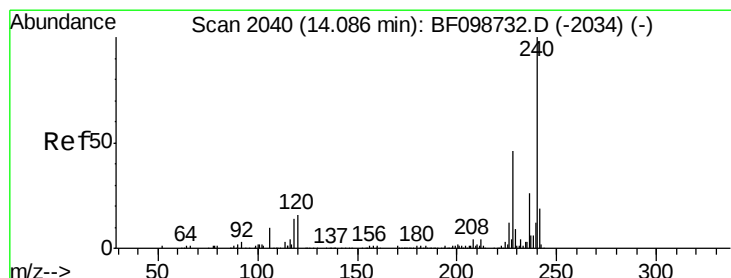
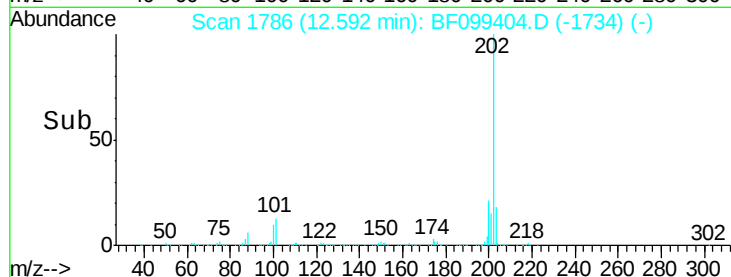
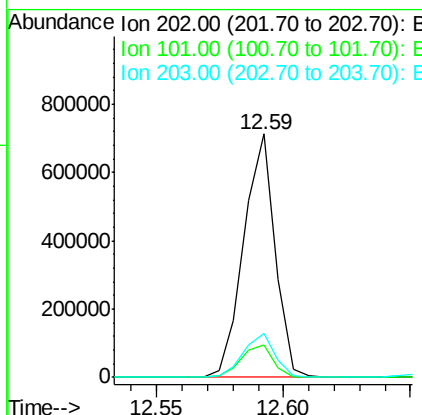
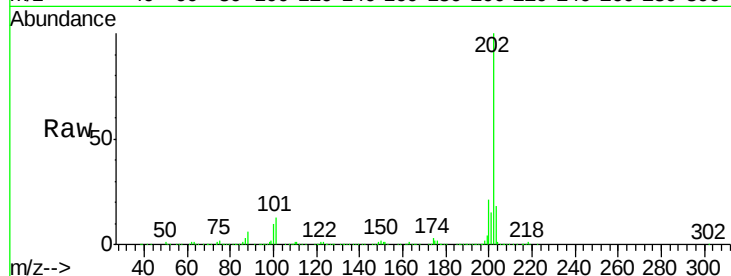




#74
 Fluoranthene
 Concen: 44.43 ng
 RT: 12.59 min Scan# 1786
 Delta R.T. 0.01 min
 Lab File: BF099404.D
 Acq: 12 Oct 2017 19:36

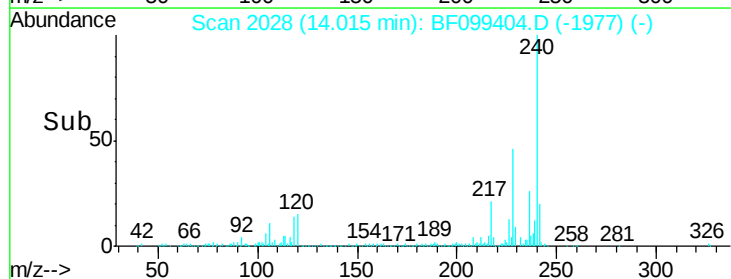
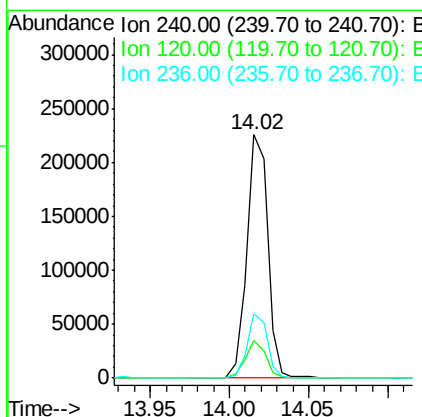
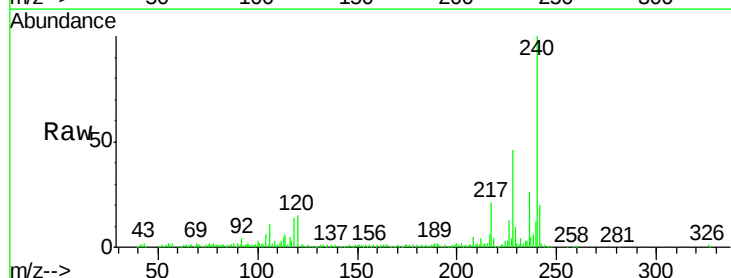
Instrument :
 BNA_F
 ClientSampleId :

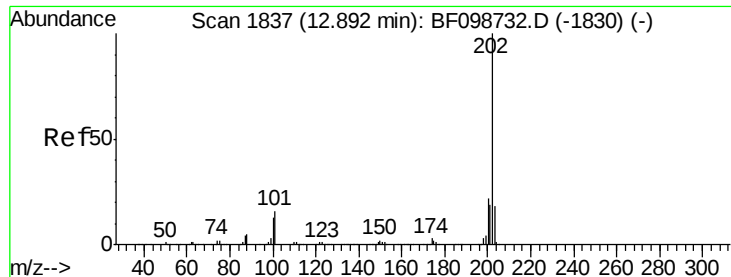
Tot Ion:202	Resp:	610735
Ion Ratio	Lower	Upper
202	100	
101	13.5	0.0 34.1
203	18.0	0.0 38.1



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.02 min Scan# 2028
 Delta R.T. 0.00 min
 Lab File: BF099404.D
 Acq: 12 Oct 2017 19:36

Tgt Ion:240	Resp:	206588
Ion Ratio	Lower	Upper
240	100	
120	15.5	9.5 14.3#
236	26.2	20.7 31.1





#77

Pvrene

Concen: 37.96 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.00 min

Lab File: BF099404.D

Acq: 12 Oct 2017 19:36

Instrument :

BNA_F

ClientSampleId :

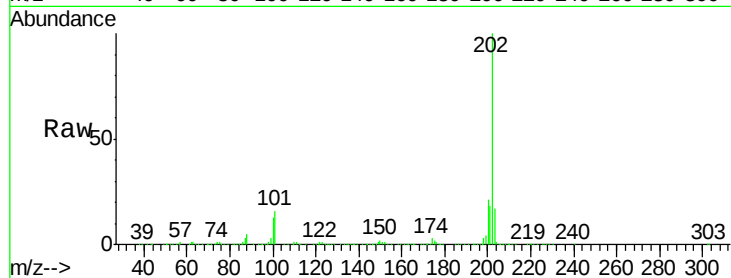
Tot Ion:202 Resp: 597933

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

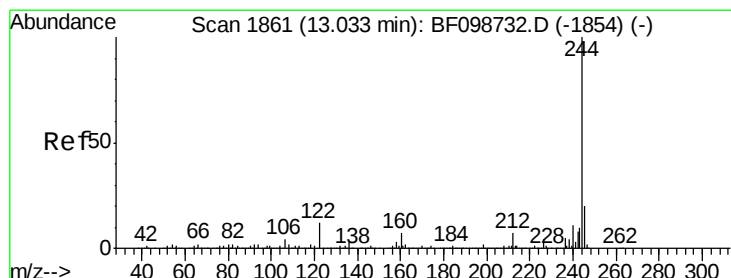
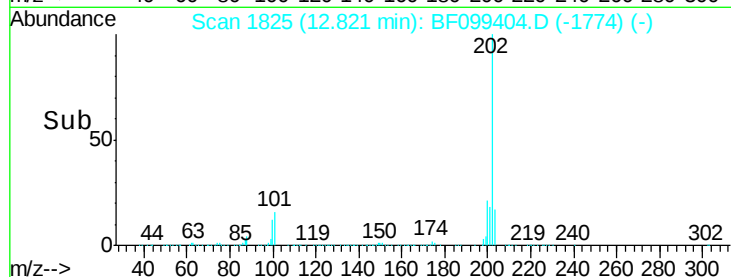
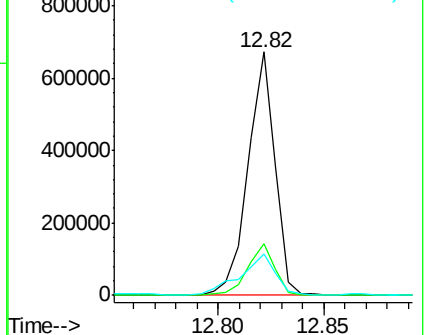
203 17.0 14.3 21.5



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: 10.93 ng

RT: 12.95 min Scan# 1847

Delta R.T. -0.01 min

Lab File: BF099404.D

Acq: 12 Oct 2017 19:36

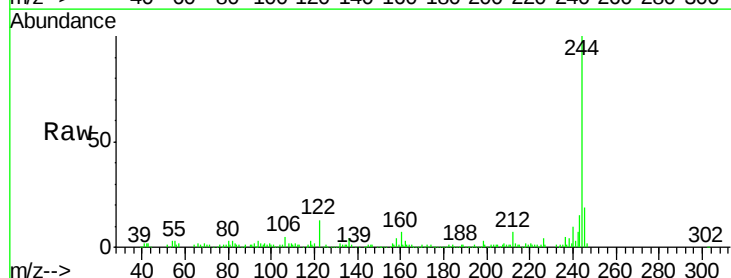
Tgt Ion:244 Resp: 99273

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

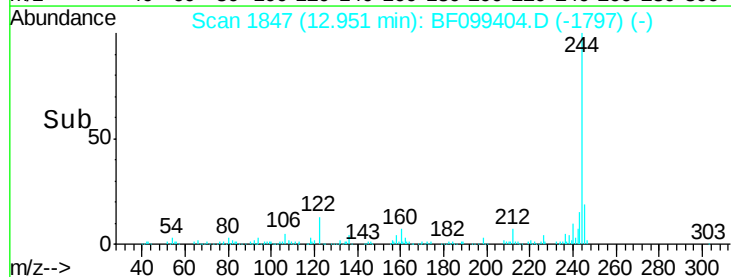
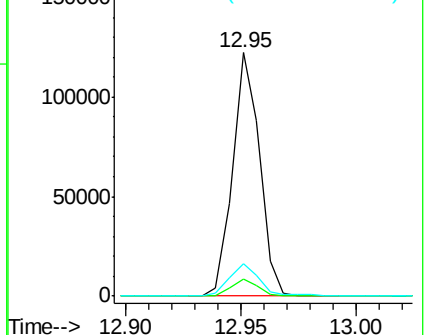
122 13.2 11.0 16.4

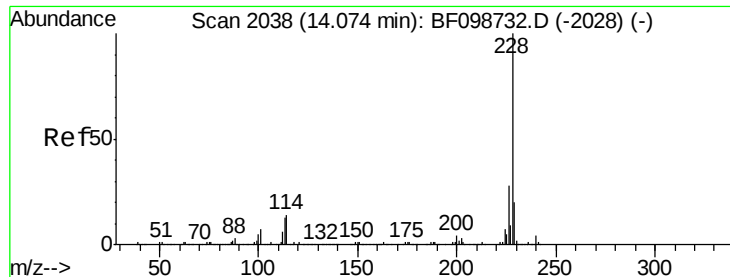


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

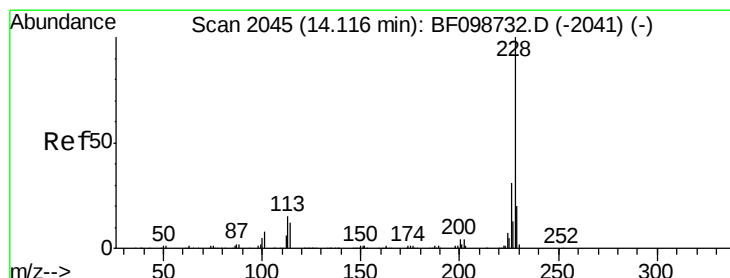
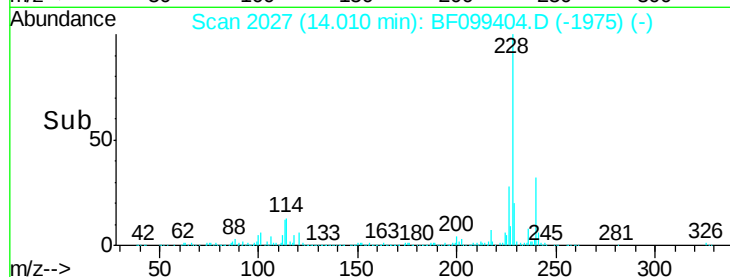
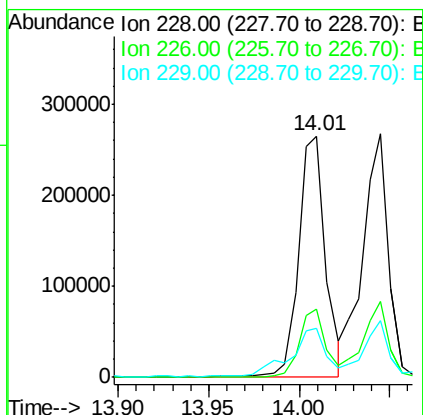
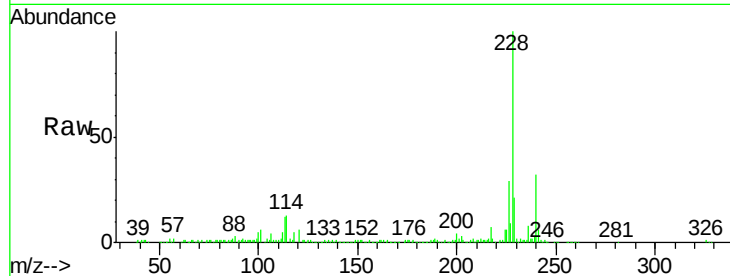




#80
Benzo(a)anthracene
Concen: 22.02 ng
RT: 14.01 min Scan# 2027
Delta R.T. 0.01 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

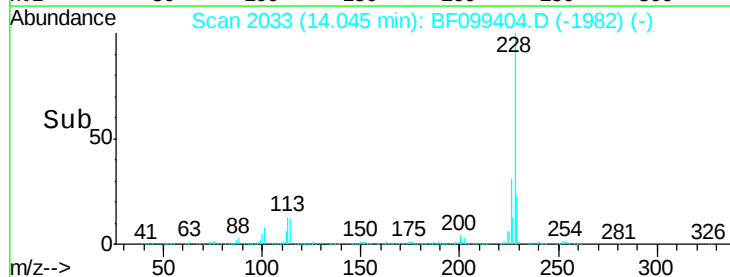
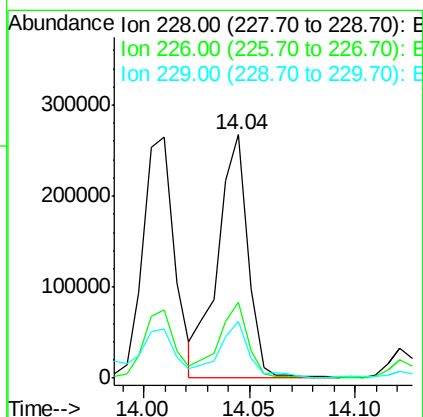
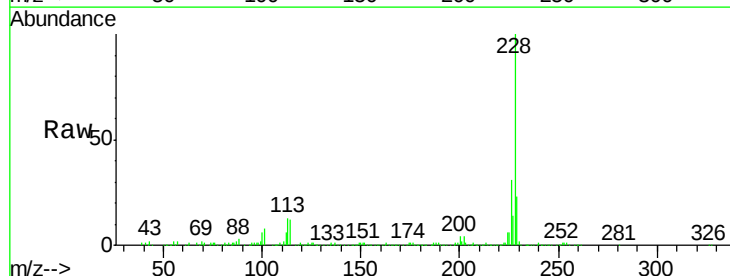
Instrument :
BNA_F
ClientSampleId :

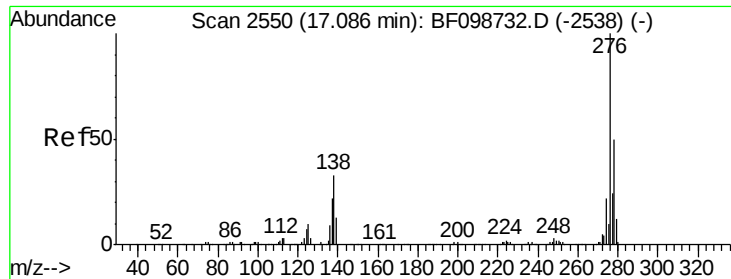
Tot Ion:228 Resp: 275455
Ion Ratio Lower Upper
228 100
226 28.5 22.6 33.8
229 20.6 15.8 23.6



#82
Chrysene
Concen: 22.22 ng
RT: 14.04 min Scan# 2033
Delta R.T. 0.00 min
Lab File: BF099404.D
Acq: 12 Oct 2017 19:36

Tgt Ion:228 Resp: 264582
Ion Ratio Lower Upper
228 100
226 31.3 25.0 37.6
229 23.2 16.2 24.4

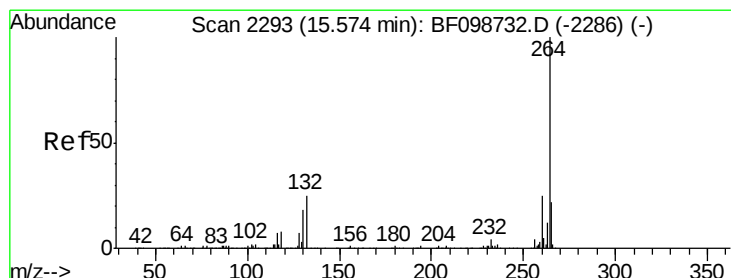
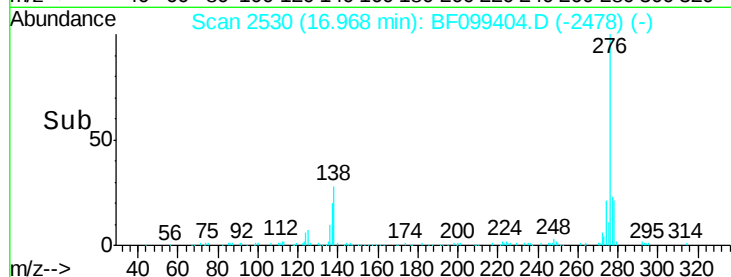
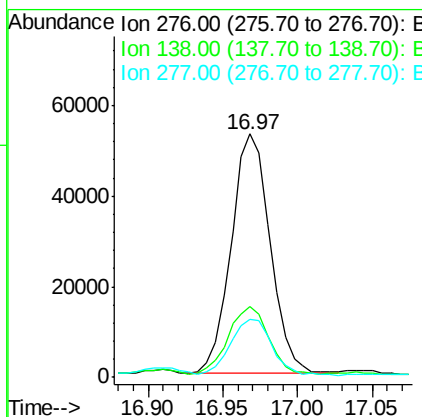
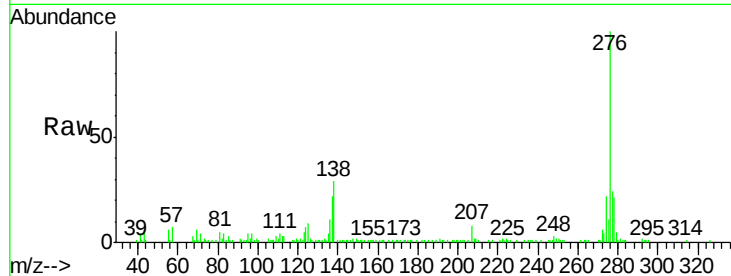




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.13 ng
 RT: 16.97 min Scan# 2530
 Delta R.T. 0.01 min
 Lab File: BF099404.D
 Acq: 12 Oct 2017 19:36

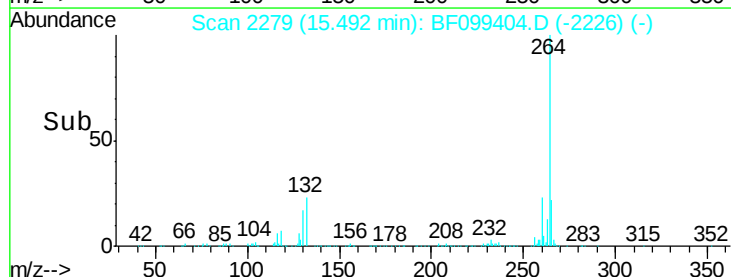
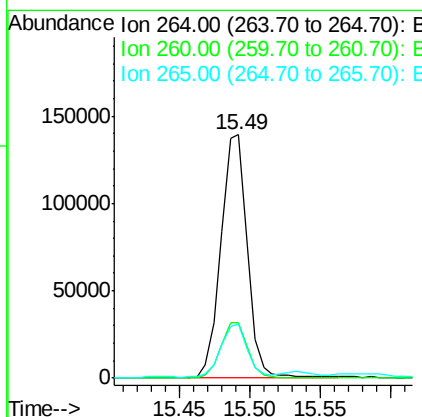
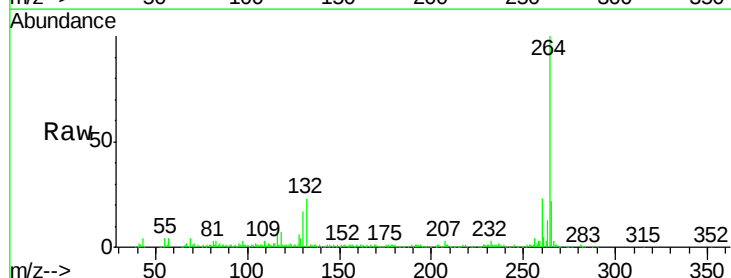
Instrument :
 BNA_F
 ClientSampleId :

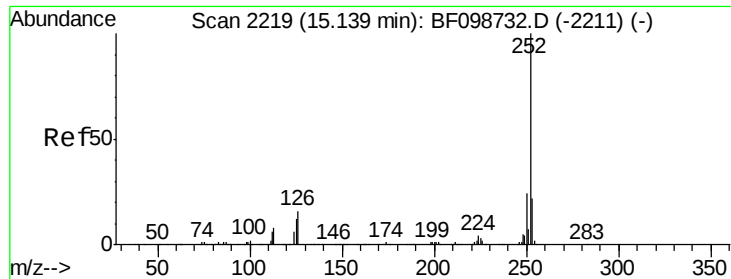
Tot Ion	Ratio	Lower	Upper
276	100		
138	30.0	25.0	37.6
277	24.5	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.49 min Scan# 2279
 Delta R.T. 0.01 min
 Lab File: BF099404.D
 Acq: 12 Oct 2017 19:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.2	28.8
265	22.4	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 34.55 ng

RT: 15.06 min Scan# 2205

Delta R.T. 0.01 min

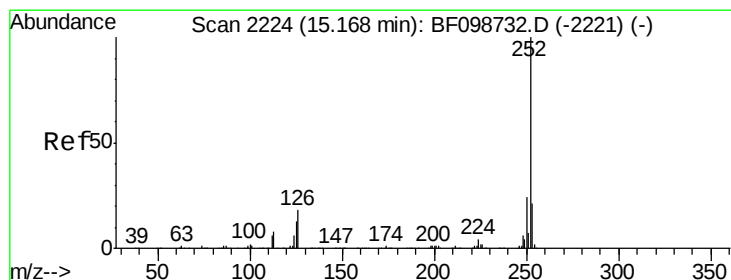
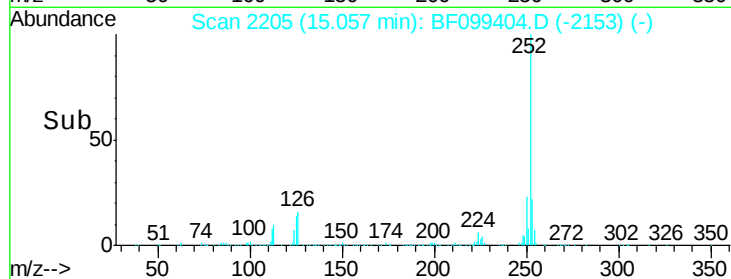
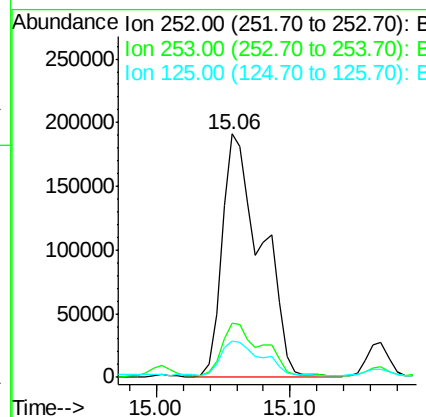
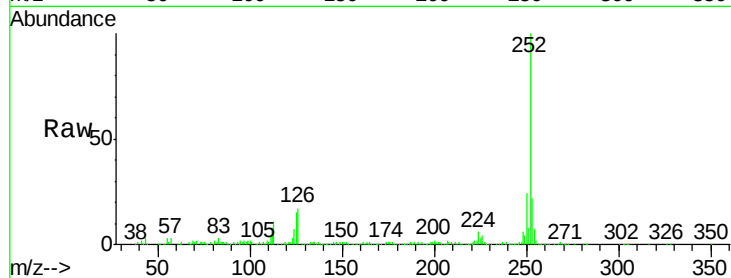
Lab File: BF099404.D

Acq: 12 Oct 2017 19:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 387447

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	14.7	9.0	13.6#



#88

Benzo(k)fluoranthene

Concen: 34.98 ng

RT: 15.06 min Scan# 2205

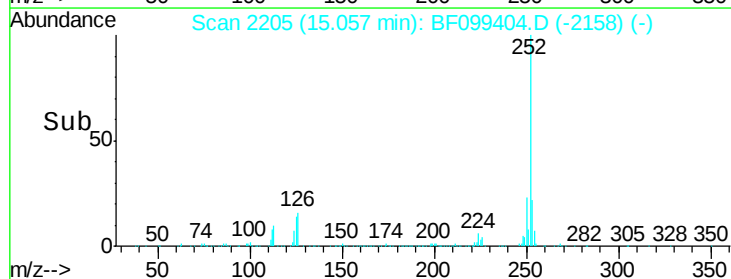
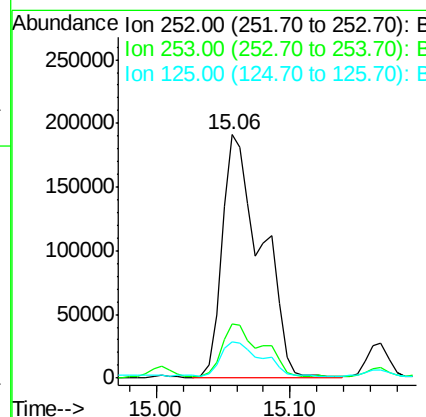
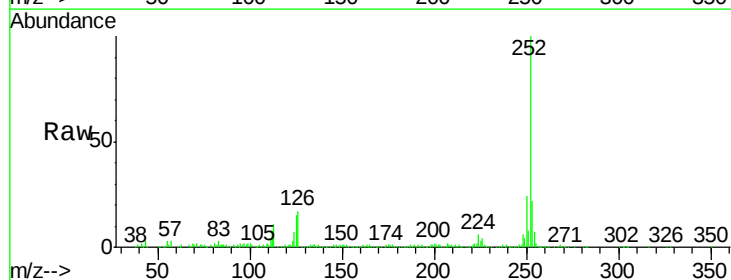
Delta R.T. -0.02 min

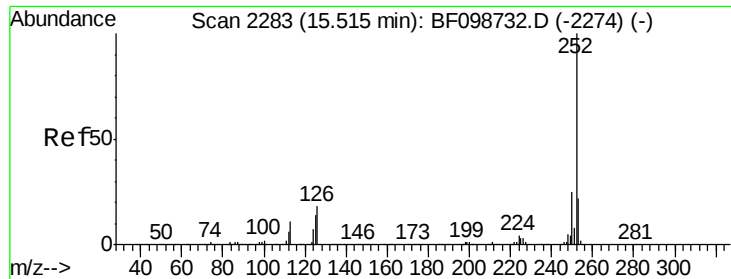
Lab File: BF099404.D

Acq: 12 Oct 2017 19:36

Tgt Ion:252 Resp: 387447

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	14.7	10.2	15.2





#89

Benzo(a)pyrene

Concen: 17.16 ng

RT: 15.43 min Scan# 2268

Delta R.T. 0.01 min

Lab File: BF099404.D

Acq: 12 Oct 2017 19:36

Instrument :

BNA_F

ClientSampleId :

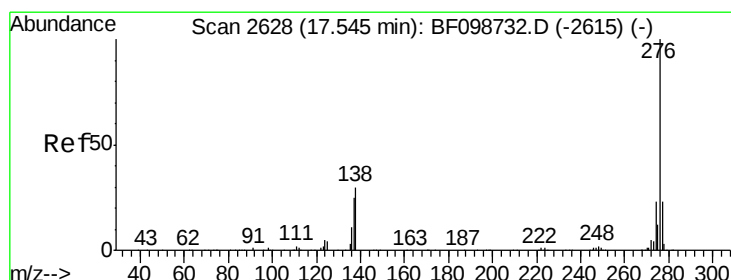
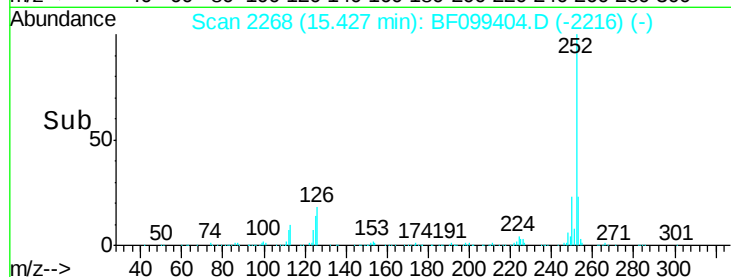
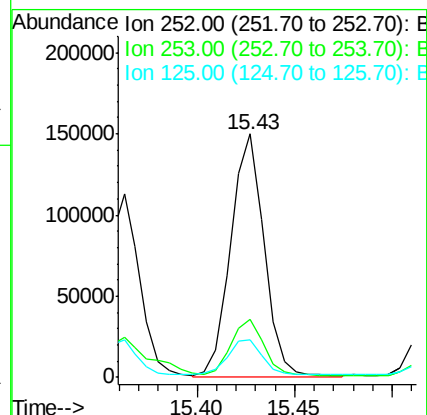
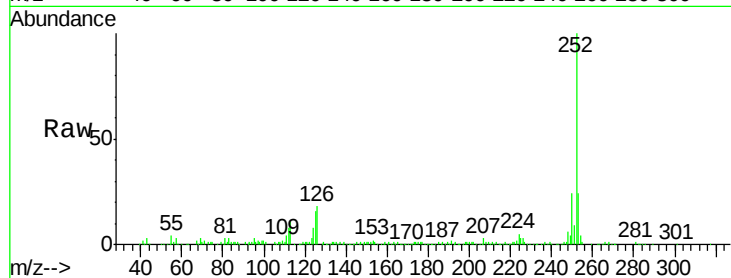
Tot Ion:252 Resp: 176682

Ion Ratio Lower Upper

252 100

253 23.6 17.1 25.7

125 15.5 9.8 14.6#



#91

Benzo(g,h,i)perylene

Concen: 11.33 ng

RT: 17.42 min Scan# 2607

Delta R.T. 0.01 min

Lab File: BF099404.D

Acq: 12 Oct 2017 19:36

Tgt Ion:276 Resp: 92238

Ion Ratio Lower Upper

276 100

277 25.7 17.9 26.9

138 31.6 21.8 32.8

