

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090817\
 Data File : BF098364.D
 Acq On : 8 Sep 2017 21:35
 Operator : SJ/JU
 Sample : I5113-01 20X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RL-1-0-12.25

Quant Time: Sep 09 00:01:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 05 17:28:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	80021	20.00	ng	-0.02
21) Naphthalene-d8	7.97	136	280909	20.00	ng	-0.02
38) Acenaphthene-d10	9.72	164	103783	20.00	ng	-0.02
63) Phenanthrene-d10	11.20	188	182058	20.00	ng	-0.02
75) Chrysene-d12	13.84	240	192783	20.00	ng	-0.02
86) Perylene-d12	15.24	264	142858	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	13724	2.61	ng	-0.02
7) Phenol-d6	6.33	99	34187	4.78	ng	-0.02
23) Nitrobenzene-d5	7.25	82	18759	3.63	ng	-0.03
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.04	172	33296	4.71	ng	-0.03
78) Terphenyl-d14	12.78	244	27733	3.00	ng	-0.03

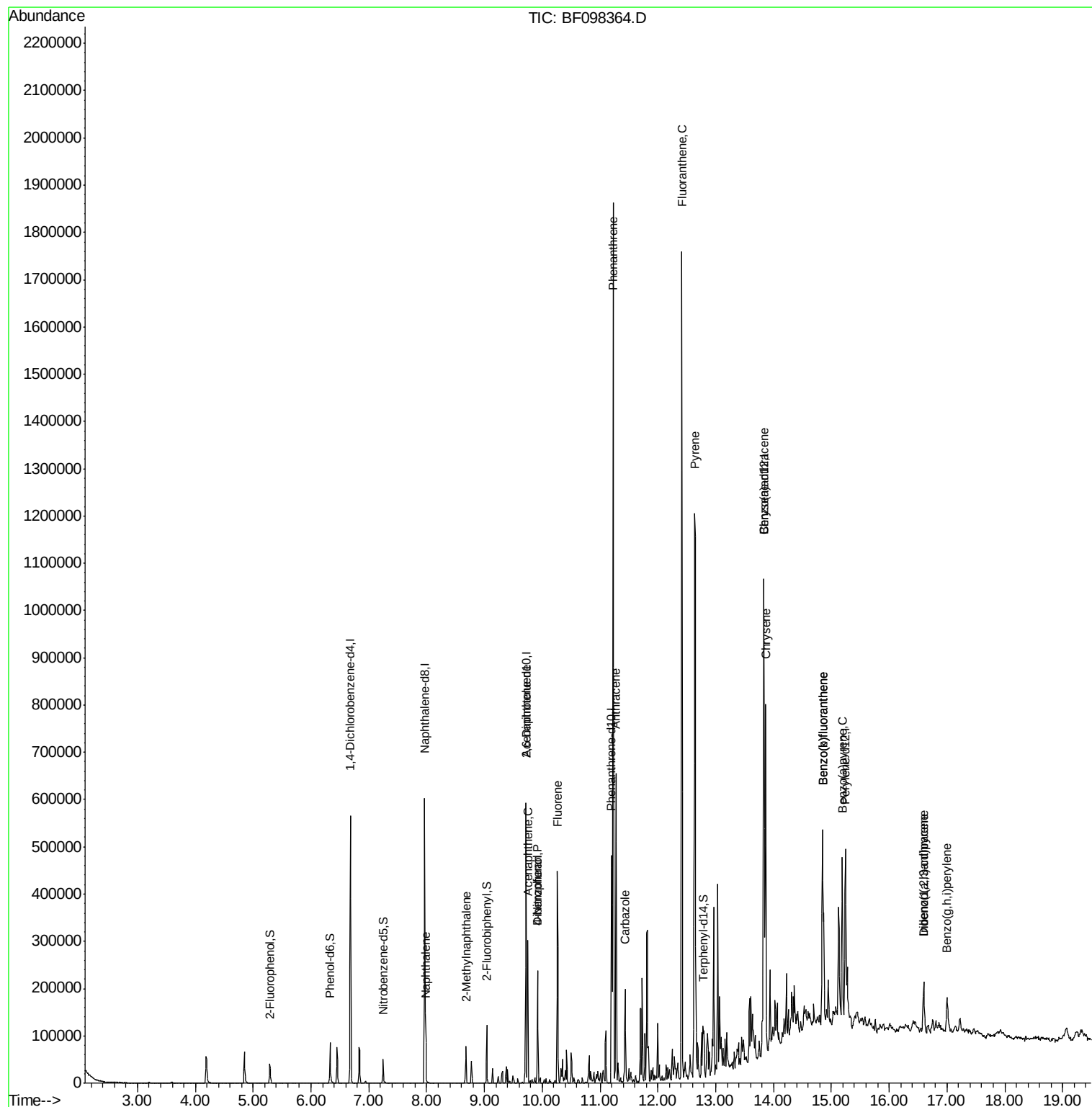
Target Compounds				Qvalue		
31) Naphthalene	7.99	128	31671	2.172	ng	99
37) 2-Methylnaphthalene	8.68	142	20353	2.276	ng	97
50) 2,6-Dinitrotoluene	9.72	165	14661	9.682	ng	# 31
51) Acenaphthene	9.75	154	59718	8.623	ng	99
54) Dibenzofuran	9.92	168	79046	8.516	ng	98
55) 4-Nitrophenol	9.92	139	29008	18.613	ng	# 27
57) Fluorene	10.26	166	111809	15.580	ng	98
70) Phenanthrene	11.23	178	633753	65.326	ng	99
71) Anthracene	11.27	178	229253	23.299	ng	99
72) Carbazole	11.43	167	66111	7.078	ng	96
74) Fluoranthene	12.42	202	645281	63.726	ng	99
77) Pyrene	12.64	202	535933	33.990	ng	97
80) Benzo(a)anthracene	13.83	228	301366	26.083	ng	99
82) Chrysene	13.86	228	239940	20.876	ng	98
85) Indeno(1,2,3-cd)pyrene	16.60	276	60637	7.171	ng	# 91
87) Benzo(b)fluoranthene	14.85	252	304114	33.772	ng	99
88) Benzo(k)fluoranthene	14.85	252	304114	35.947	ng	97
89) Benzo(a)pyrene	15.19	252	147204	18.466	ng	98
90) Dibenzo(a,h)anthracene	16.60	278	17805	2.743	ng	# 82
91) Benzo(a,h,i)perylene	17.00	276	57640	8.512	ng	99

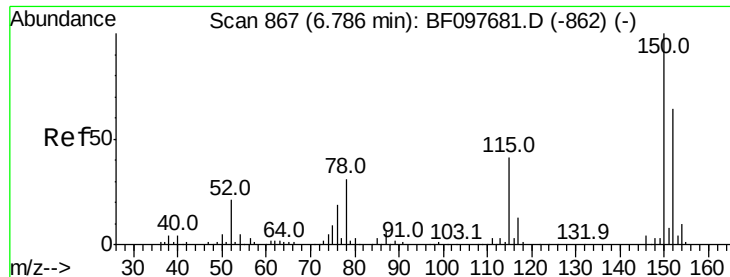
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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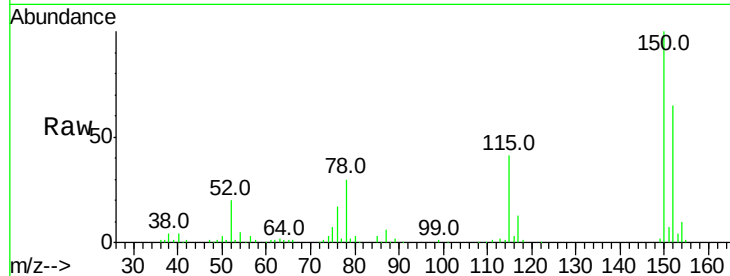


#1

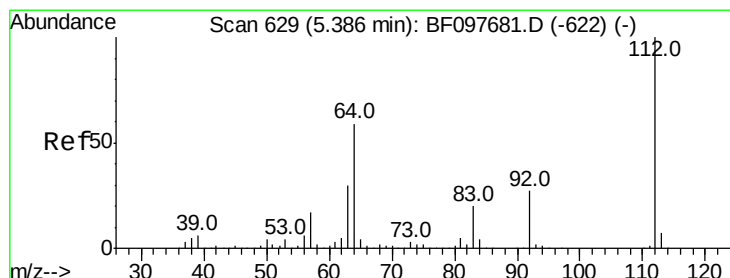
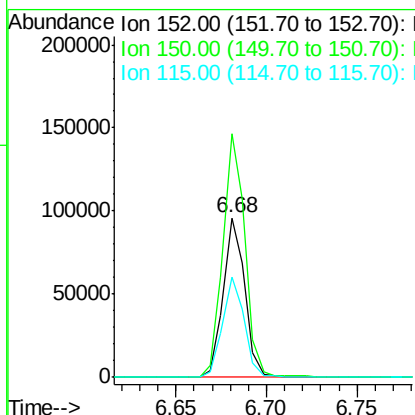
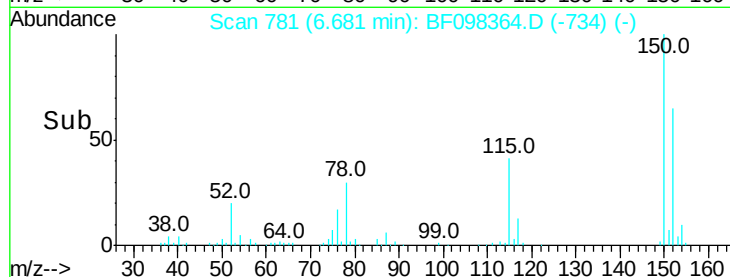
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.68 min Scan# 781
Delta R.T. -0.02 min
Lab File: BF098364.D
Acq: 8 Sep 2017 21:35

Instrument :
BNA_F
ClientSampleId :
RL-1-0-12.25

Tot Ion:152 Resp: 80021
Ion Ratio Lower Upper
152 100
150 152.7 126.2 189.2
115 63.0 52.2 78.2



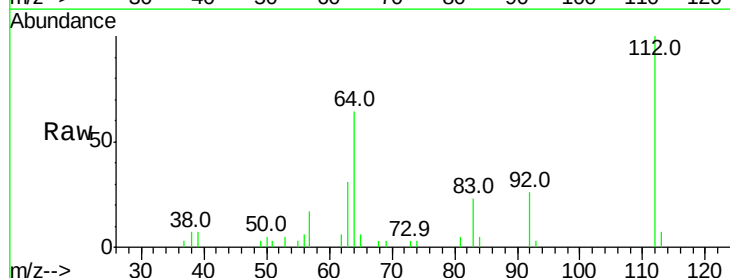
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



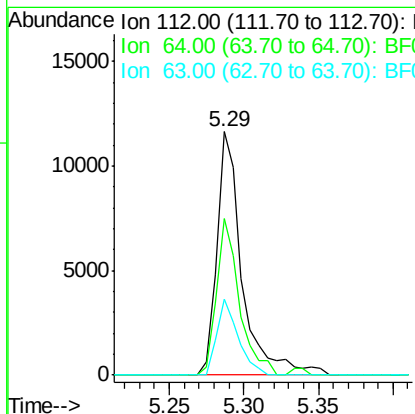
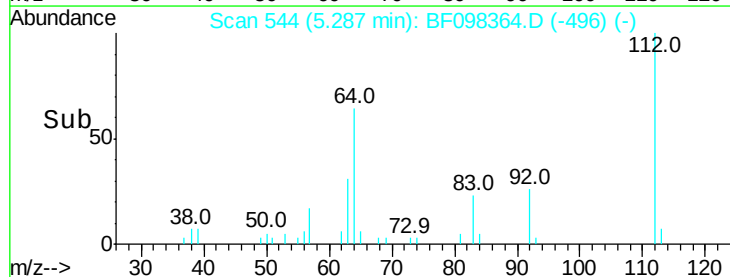
#5

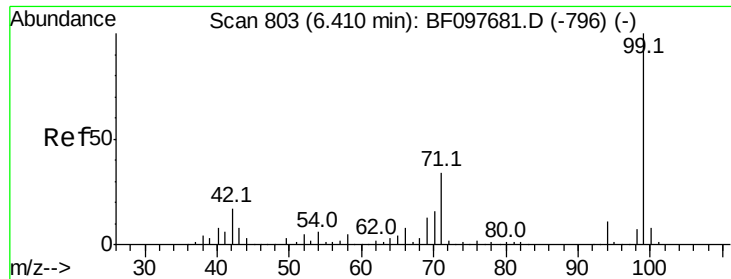
2-Fluorophenol
Concen: 2.609 ng
RT: 5.29 min Scan# 544
Delta R.T. -0.02 min
Lab File: BF098364.D
Acq: 8 Sep 2017 21:35

Tgt Ion:112 Resp: 13724
Ion Ratio Lower Upper
112 100
64 64.3 46.0 69.0
63 31.3 23.4 35.0



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





#7

Phenol-d6

Concen: 4.783 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.02 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

Instrument :

BNA_F

ClientSampleId :

RL-1-0-12.25

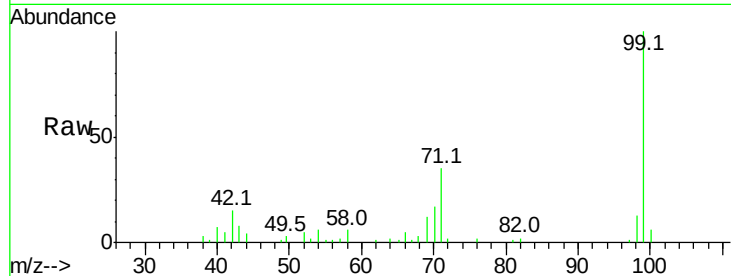
Tot Ion: 99 Resp: 34187

Ion Ratio Lower Upper

99 100

42 15.0 13.5 20.3

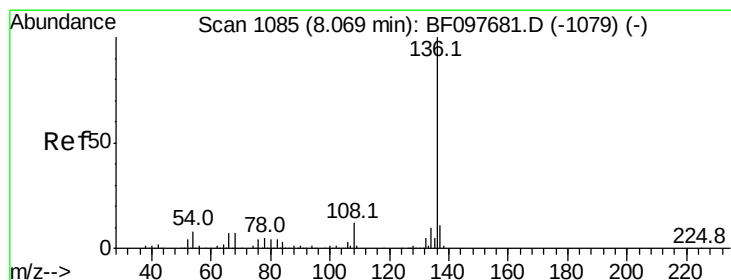
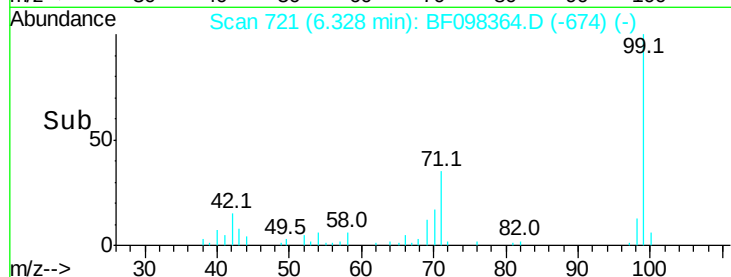
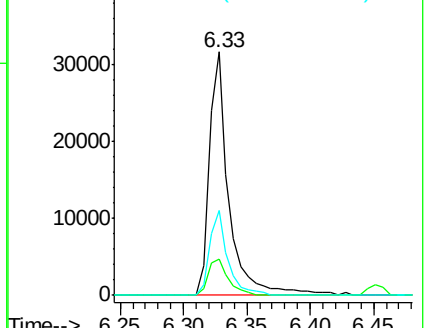
71 35.0 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

Tgt Ion: 136 Resp: 280909

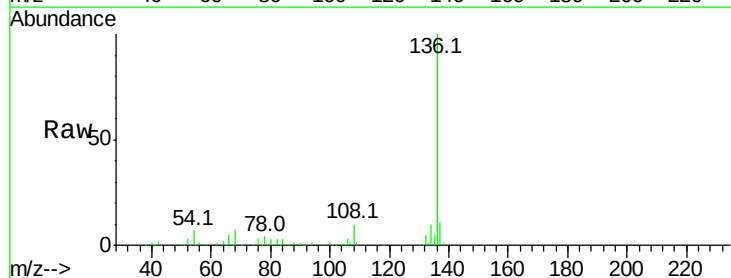
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 6.8 4.9 7.3

68 6.7 4.1 6.1#

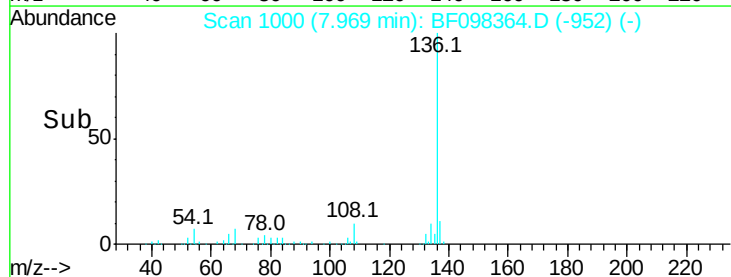
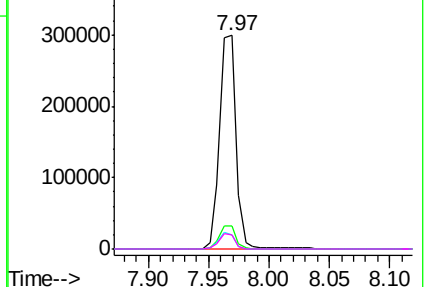


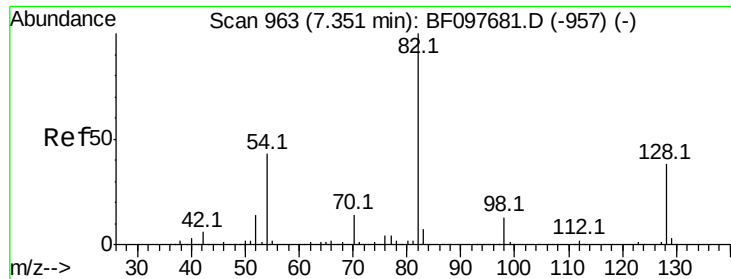
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

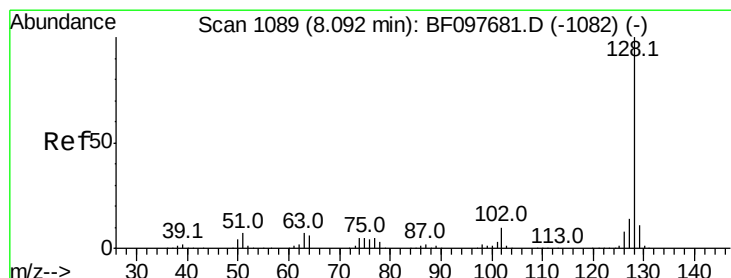
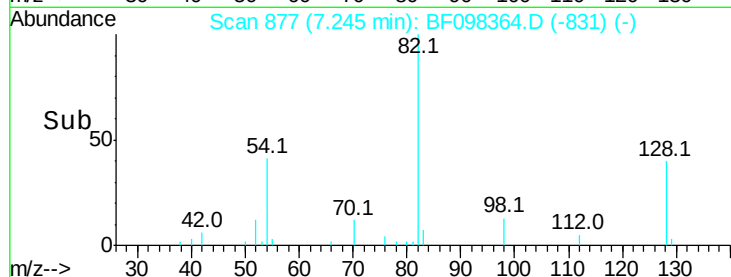
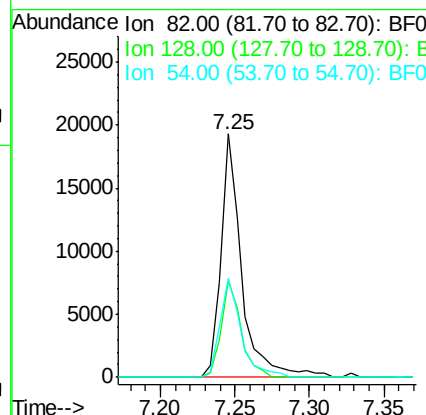
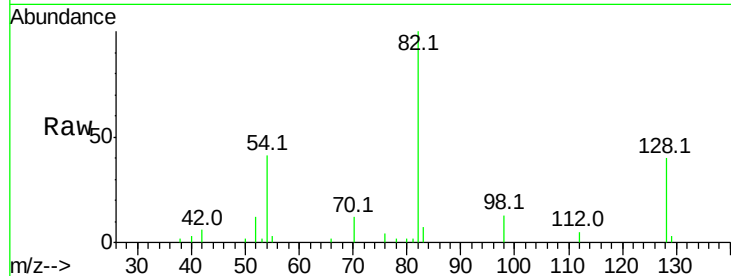




#23
 Nitrobenzene-d5
 Concen: 3.628 ng
 RT: 7.25 min Scan# 877
 Delta R.T. -0.03 min
 Lab File: BF098364.D
 Acq: 8 Sep 2017 21:35

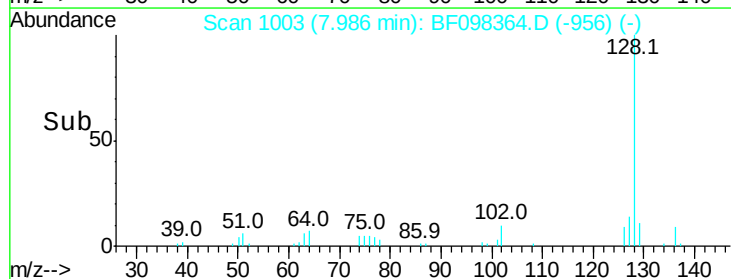
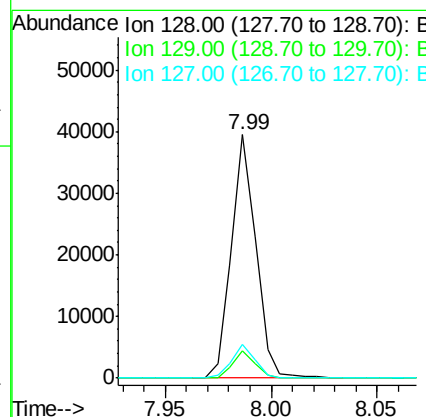
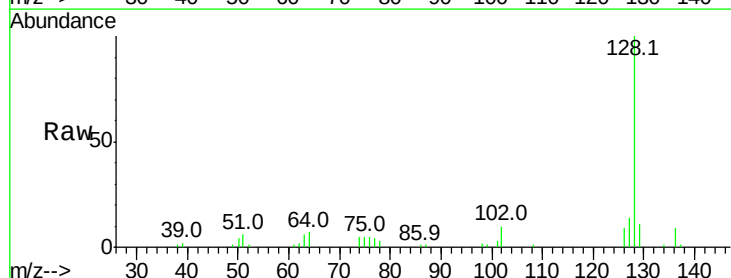
Instrument :
 BNA_F
 ClientSampleId :
 RL-1-0-12.25

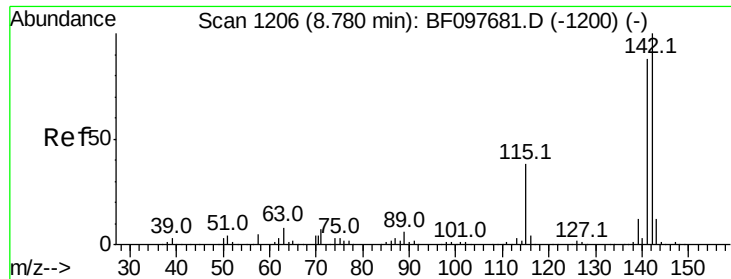
Tot Ion	82	Resp	18759
Ion Ratio	Lower	Upper	
82	100		
128	39.5	34.0	51.0
54	40.6	42.2	63.2#



#31
 Naphthalene
 Concen: 2.172 ng
 RT: 7.99 min Scan# 1003
 Delta R.T. -0.02 min
 Lab File: BF098364.D
 Acq: 8 Sep 2017 21:35

Tgt Ion	128	Resp	31671
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.0	13.6
127	13.7	10.8	16.2

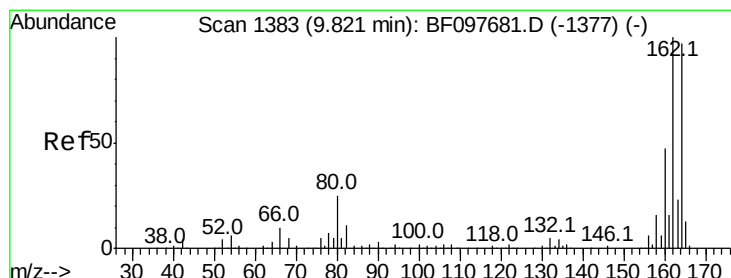
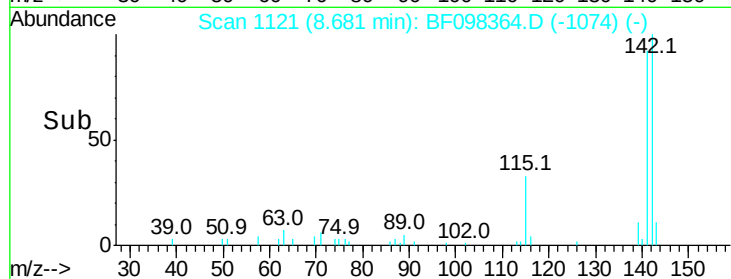
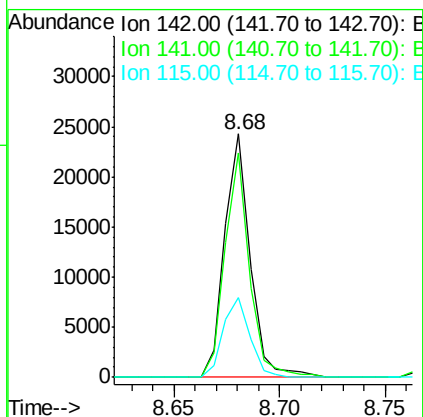
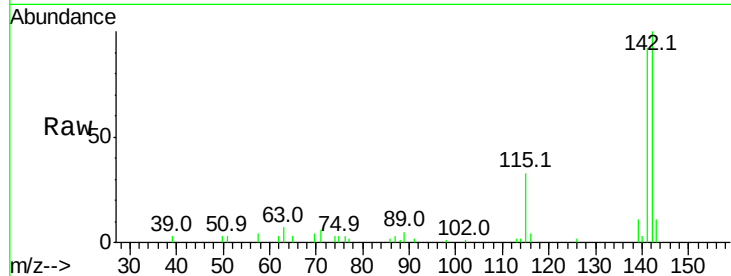




#37
 2-Methylnaphthalene
 Concen: 2.276 ng
 RT: 8.68 min Scan# 1121
 Delta R.T. -0.02 min
 Lab File: BF098364.D
 Acq: 8 Sep 2017 21:35

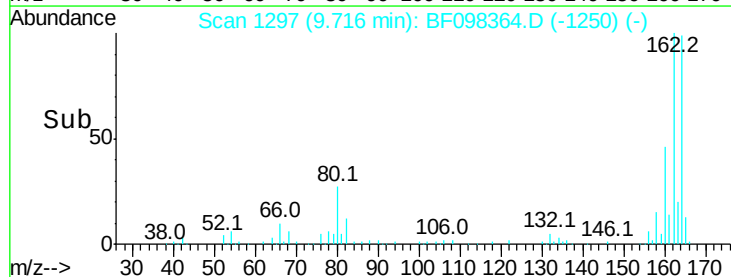
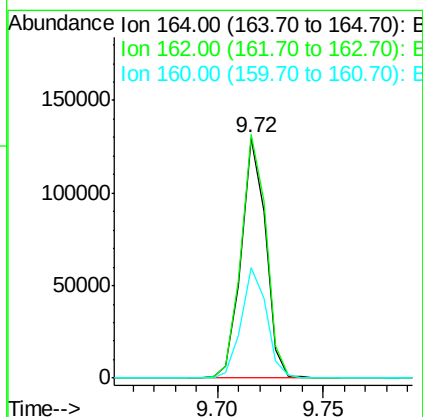
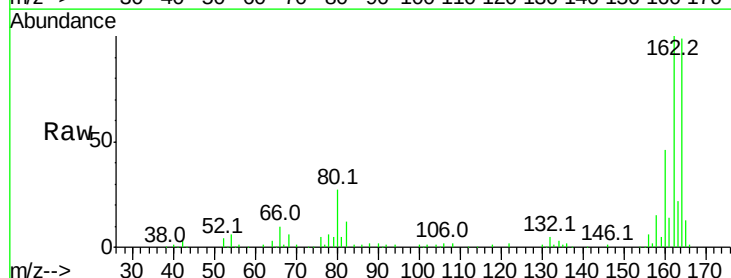
Instrument :
 BNA_F
 ClientSampleId :
 RL-1-0-12.25

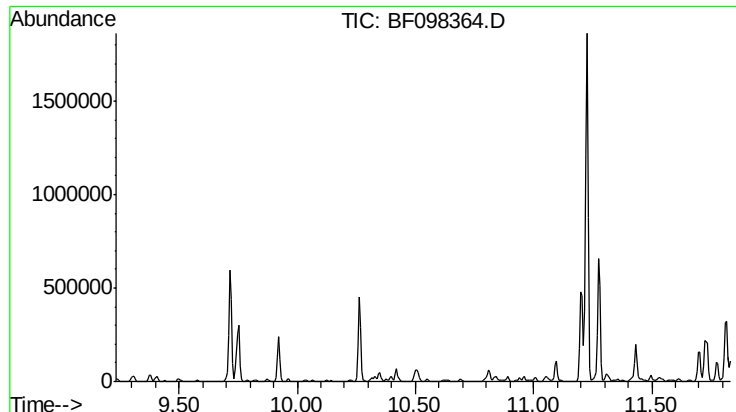
Tot Ion:142 Resp: 20353
 Ion Ratio Lower Upper
 142 100
 141 92.2 71.3 106.9
 115 32.8 27.1 40.7



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.72 min Scan# 1297
 Delta R.T. -0.02 min
 Lab File: BF098364.D
 Acq: 8 Sep 2017 21:35

Tgt Ion:164 Resp: 103783
 Ion Ratio Lower Upper
 164 100
 162 101.4 82.6 123.8
 160 46.2 36.2 54.2

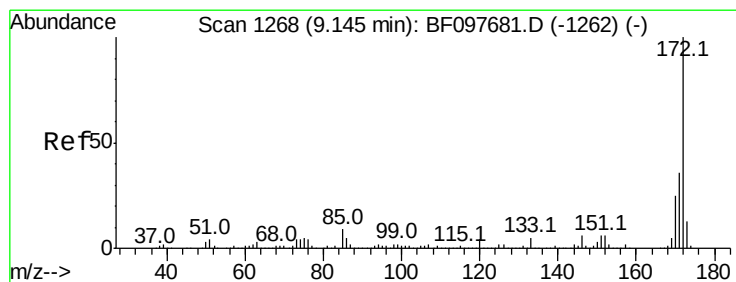
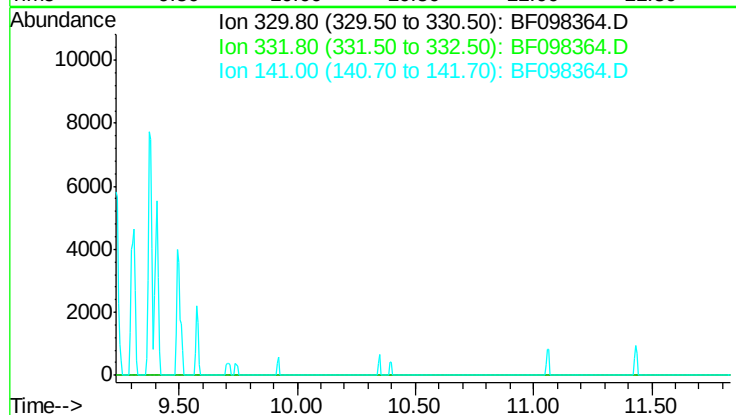




#41
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 Expected RT: 10.53 min
 Lab File: BF098364.D
 Acq: 8 Sep 2017 21:35

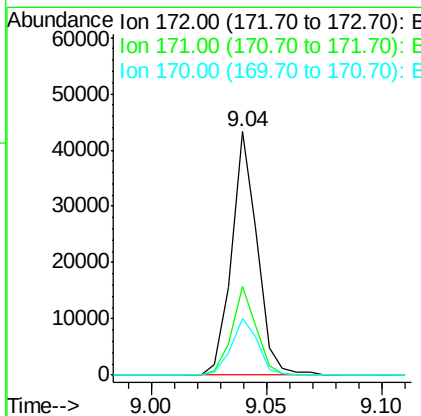
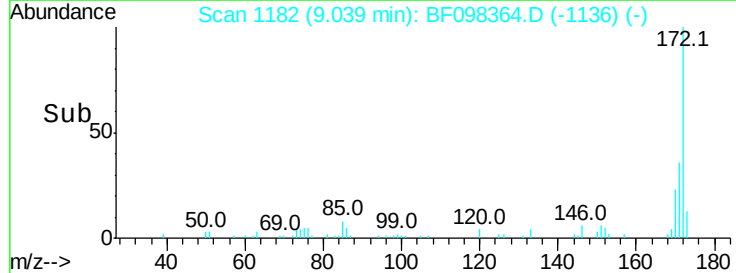
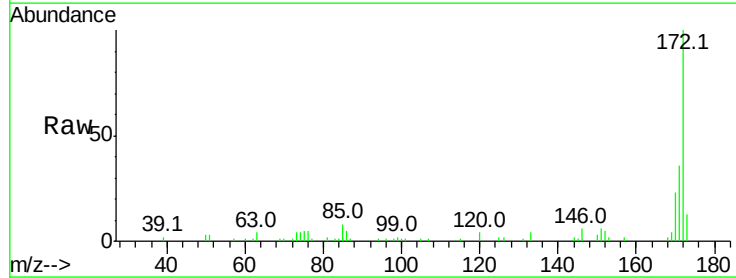
Instrument :
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 ClientSampleId :
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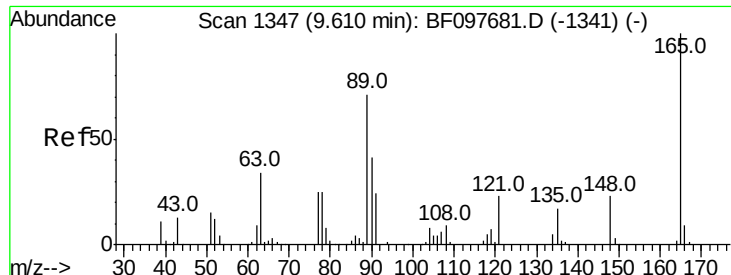
Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 95.8
 141 39.3



#44
 2-Fluorobiphenyl
 Concen: 4.714 ng
 RT: 9.04 min Scan# 1182
 Delta R.T. -0.03 min
 Lab File: BF098364.D
 Acq: 8 Sep 2017 21:35

Tgt Ion: 172 Resp: 33296
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.6 44.4
 170 23.4 19.8 29.8

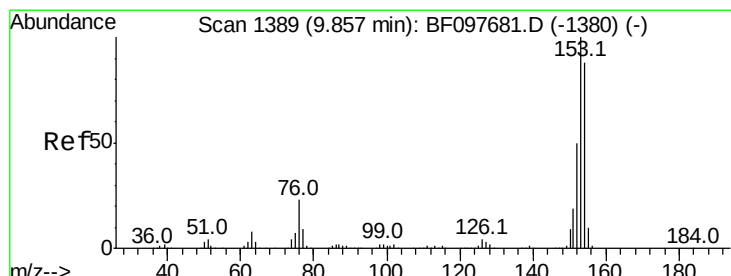
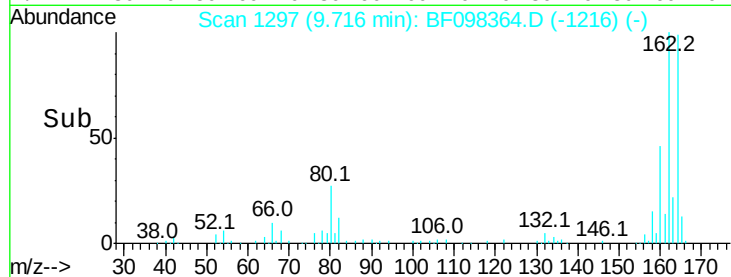
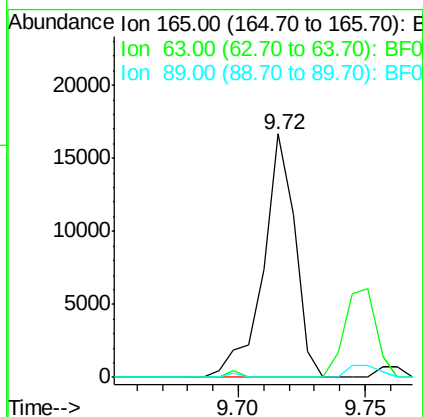
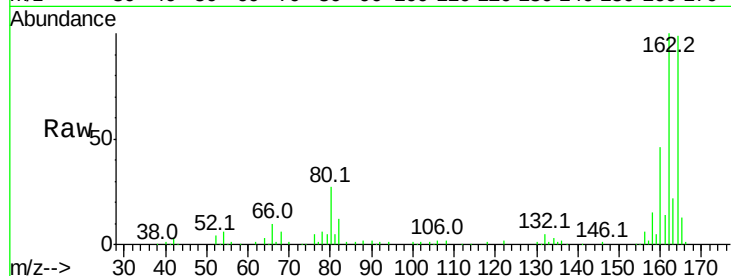




#50
 2,6-Dinitrotoluene
 Concen: 9.682 ng
 RT: 9.72 min Scan# 1297
 Delta R.T. 0.18 min
 Lab File: BF098364.D
 Acq: 8 Sep 2017 21:35

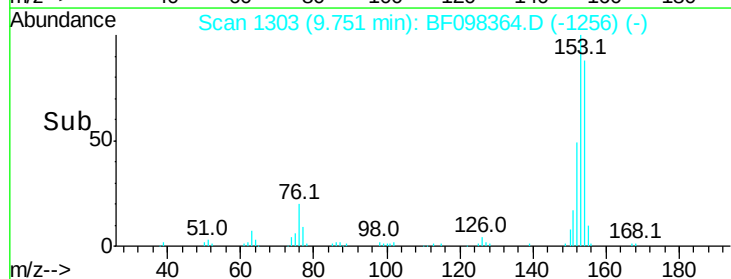
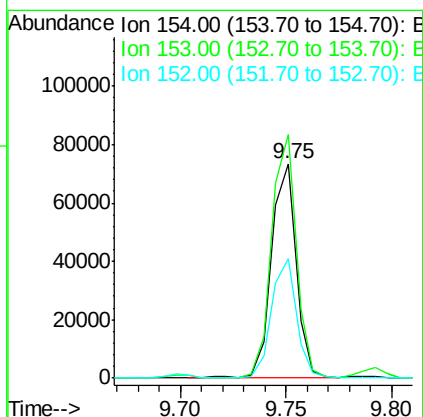
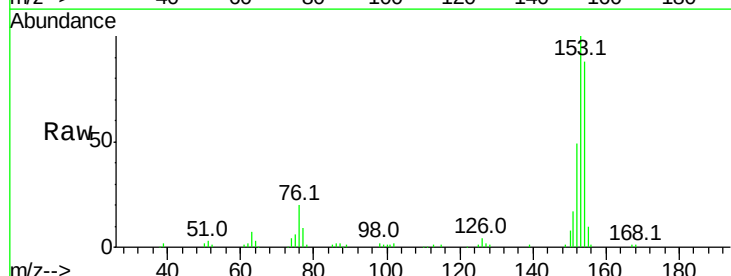
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 RL-1-0-12.25

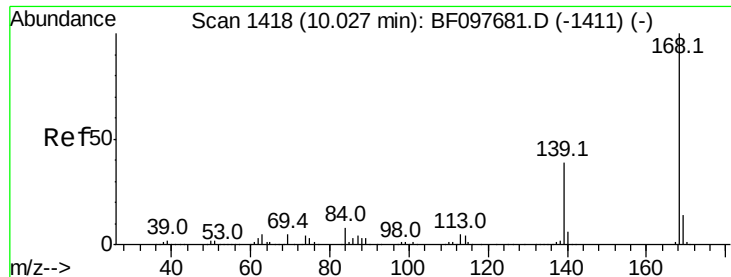
Tot Ion:	165	Resp:	14661
Ion Ratio	Lower	Upper	
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#



#51
 Acenaphthene
 Concen: 8.623 ng
 RT: 9.75 min Scan# 1303
 Delta R.T. -0.02 min
 Lab File: BF098364.D
 Acq: 8 Sep 2017 21:35

Tgt Ion:	154	Resp:	59718
Ion Ratio	Lower	Upper	
154	100		
153	113.4	90.5	135.7
152	55.7	43.6	65.4

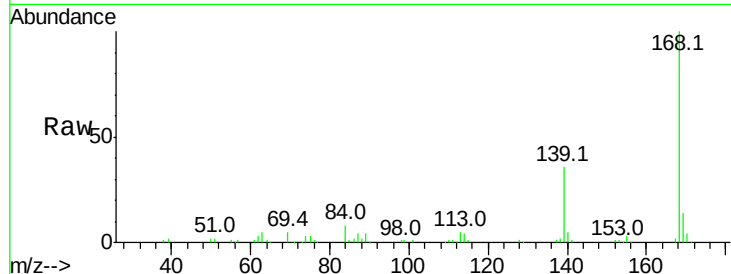




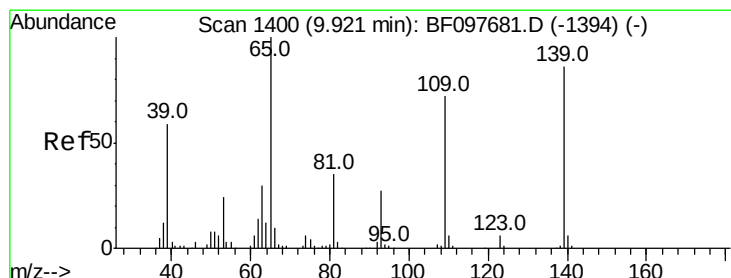
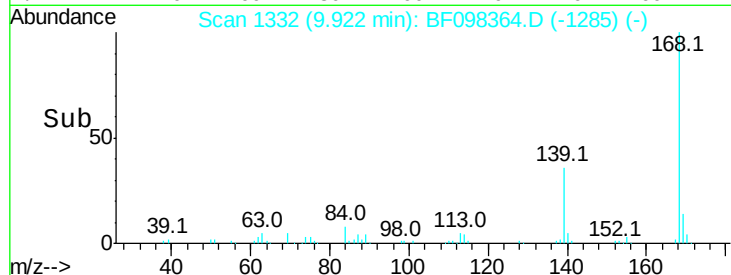
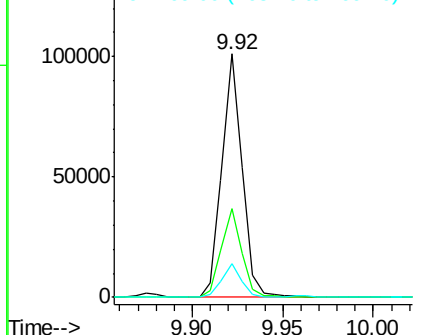
#54
Dibenzofuran
Concen: 8.516 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.02 min
Lab File: BF098364.D
Acq: 8 Sep 2017 21:35

Instrument :
BNA_F
ClientSampleId :
RL-1-0-12.25

Tot Ion:168 Resp: 79046
Ion Ratio Lower Upper
168 100
139 36.4 30.6 45.8
169 13.7 10.8 16.2

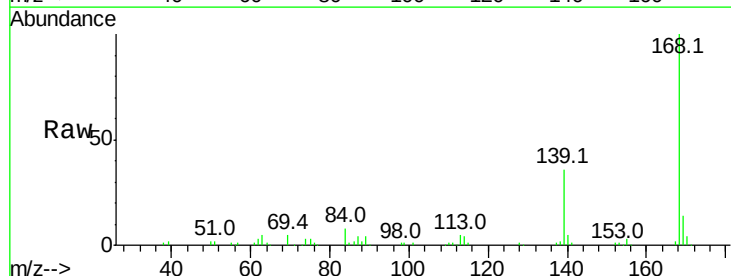


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

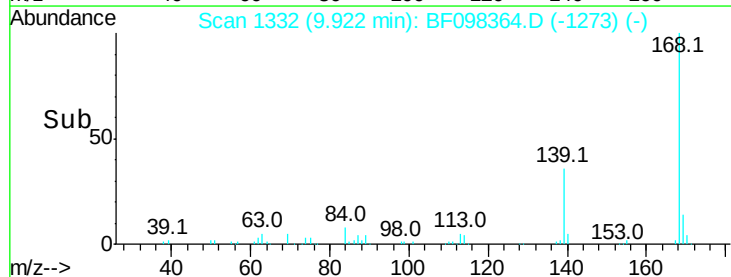
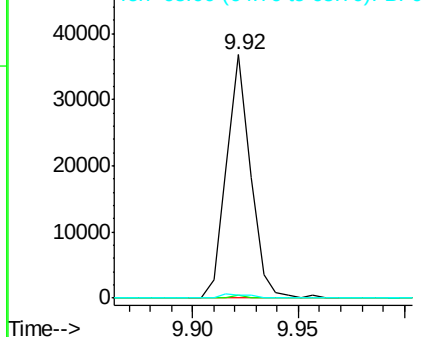


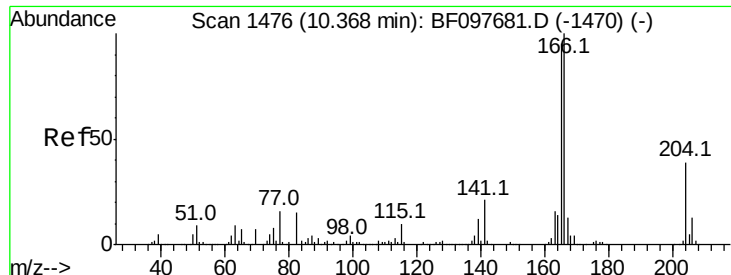
#55
4-Nitrophenol
Concen: 18.613 ng
RT: 9.92 min Scan# 1332
Delta R.T. 0.05 min
Lab File: BF098364.D
Acq: 8 Sep 2017 21:35

Tgt Ion:139 Resp: 29008
Ion Ratio Lower Upper
139 100
109 1.2 34.1 74.1#
65 1.1 31.4 71.4#



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

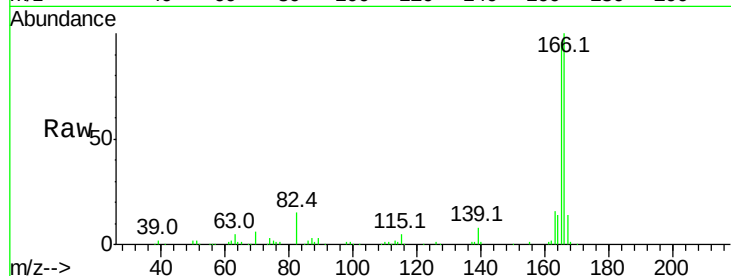




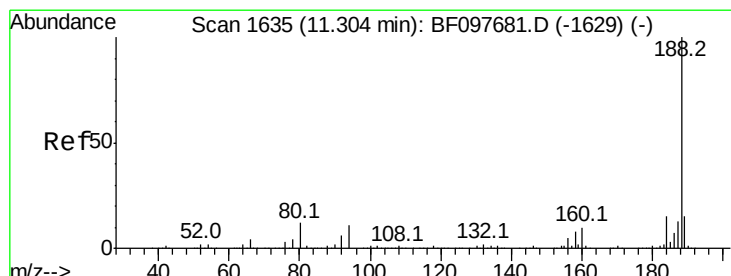
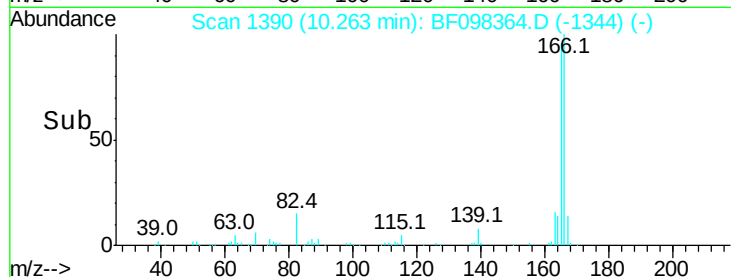
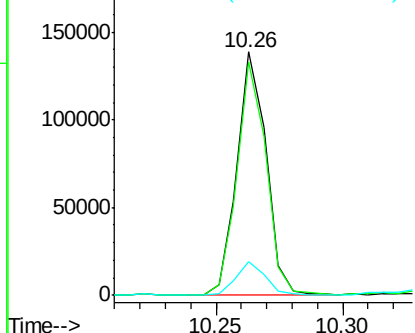
#57
Fluorene
 Concen: 15.580 ng
 RT: 10.26 min Scan# 1390
 Delta R.T. -0.03 min
 Lab File: BF098364.D
 Acq: 8 Sep 2017 21:35

Instrument :
 BNA_F
 ClientSampleId :
 RL-1-0-12.25

Tot Ion:166 Resp: 111809
 Ion Ratio Lower Upper
 166 100
 165 95.9 78.8 118.2
 167 13.8 10.6 16.0

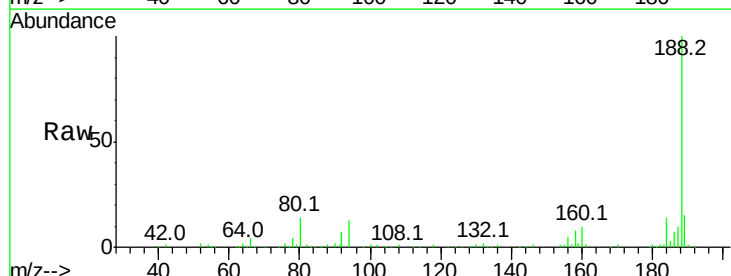


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

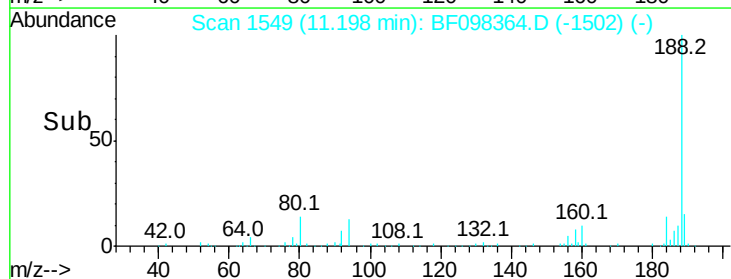
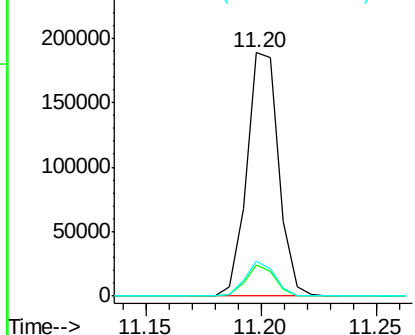


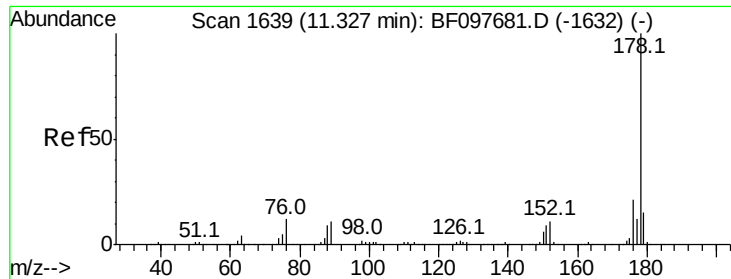
#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.20 min Scan# 1549
 Delta R.T. -0.02 min
 Lab File: BF098364.D
 Acq: 8 Sep 2017 21:35

Tgt Ion:188 Resp: 182058
 Ion Ratio Lower Upper
 188 100
 94 12.7 9.4 14.2
 80 14.2 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

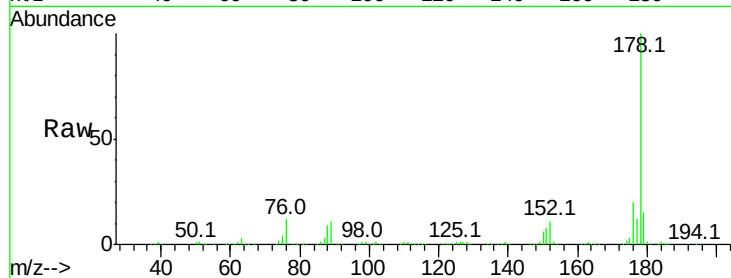




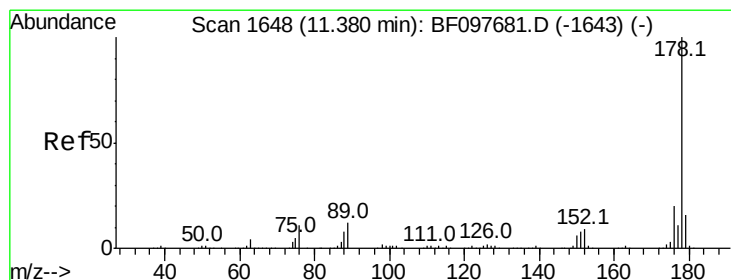
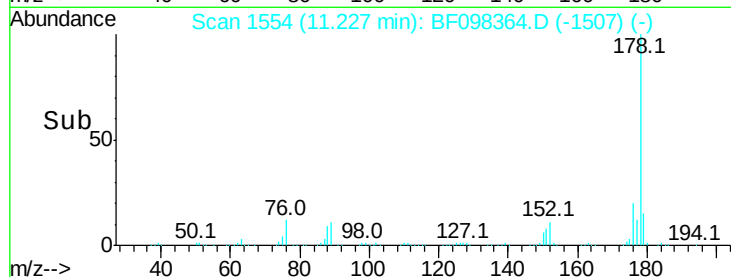
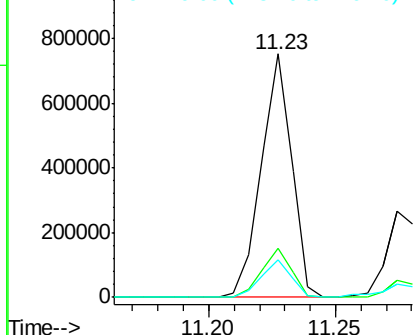
#70
Phenanthrene
Concen: 65.326 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.02 min
Lab File: BF098364.D
Acq: 8 Sep 2017 21:35

Instrument :
BNA_F
ClientSampleId :
RL-1-0-12.25

Tot Ion:178 Resp: 633753
Ion Ratio Lower Upper
178 100
176 20.1 16.2 24.4
179 15.4 12.6 19.0

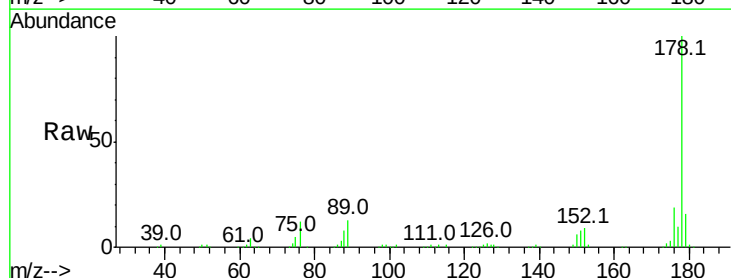


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

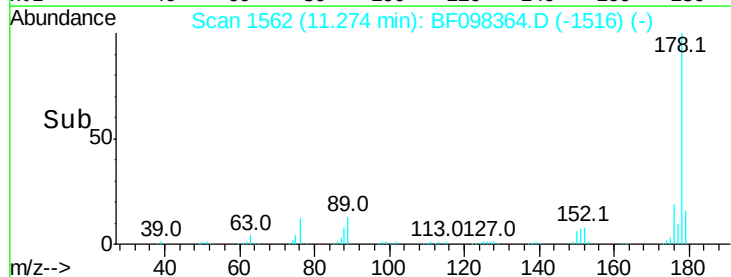
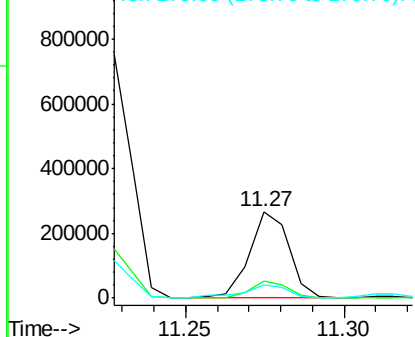


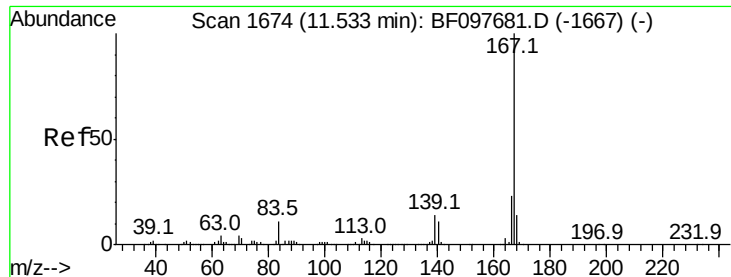
#71
Anthracene
Concen: 23.299 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.03 min
Lab File: BF098364.D
Acq: 8 Sep 2017 21:35

Tgt Ion:178 Resp: 229253
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 15.7 12.7 19.1



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: 7.078 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.02 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

Instrument :

BNA_F

ClientSampled :

RL-1-0-12.25

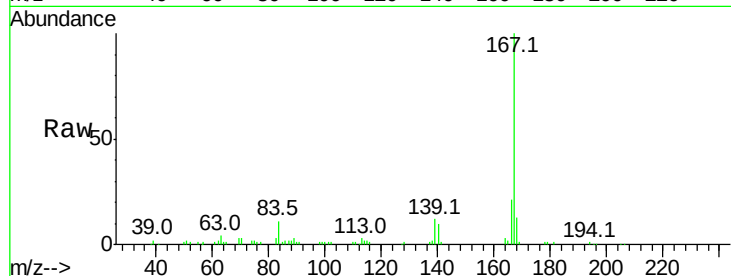
Tot Ion:167 Resp: 66111

Ion Ratio Lower Upper

167 100

166 21.1 18.1 27.1

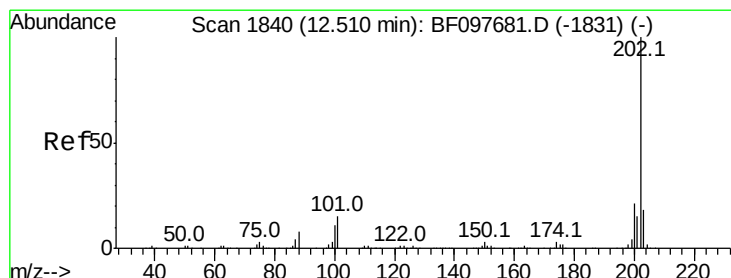
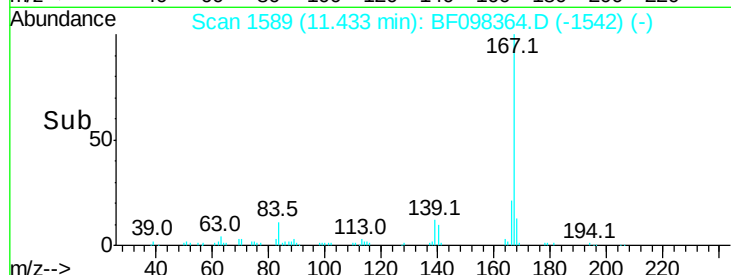
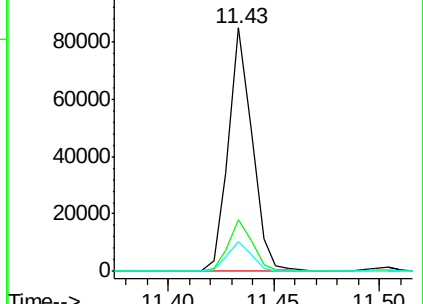
139 12.3 11.7 17.5



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: 63.726 ng

RT: 12.42 min Scan# 1756

Delta R.T. -0.02 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

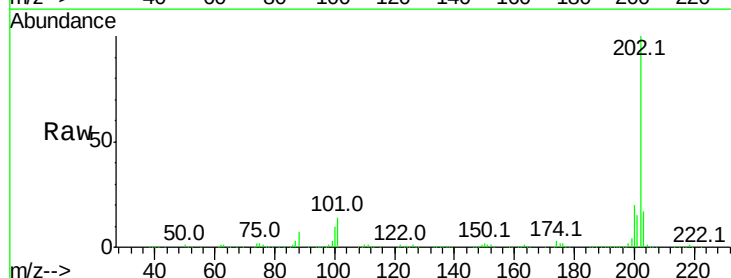
Tgt Ion:202 Resp: 645281

Ion Ratio Lower Upper

202 100

101 13.7 0.0 33.2

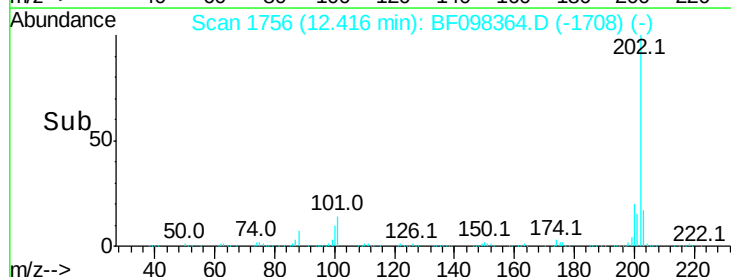
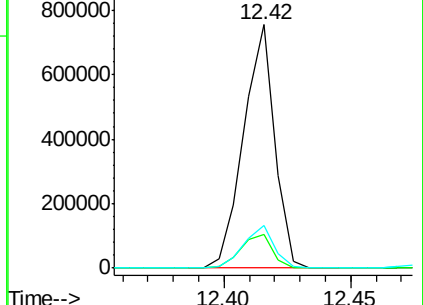
203 17.5 0.0 38.1

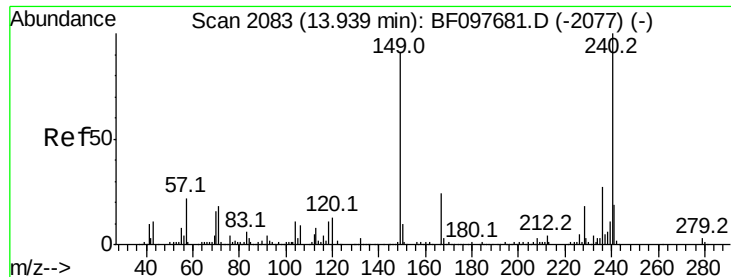


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

Instrument :

BNA_F

ClientSampleId :

RL-1-0-12.25

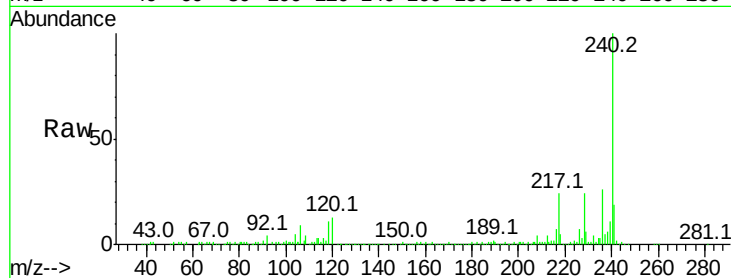
Tot Ion:240 Resp: 192783

Ion Ratio Lower Upper

240 100

120 13.1 5.8 8.8#

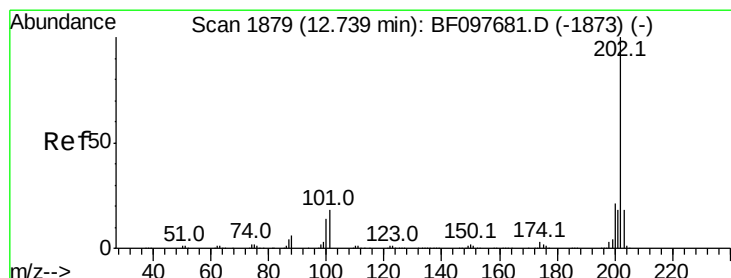
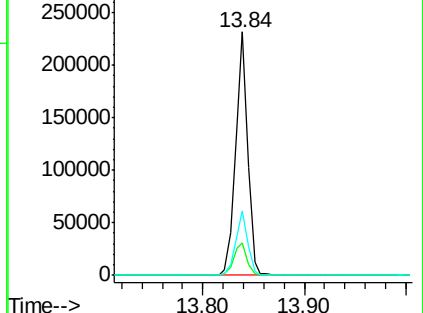
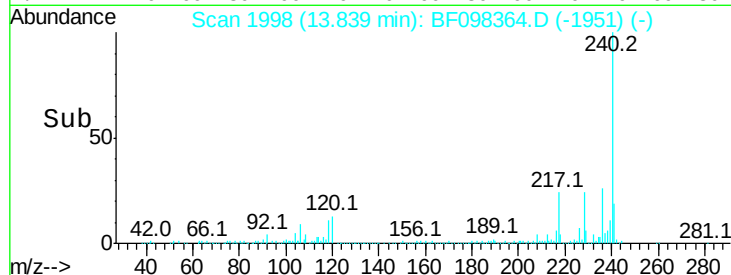
236 26.2 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 33.990 ng

RT: 12.64 min Scan# 1795

Delta R.T. -0.02 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

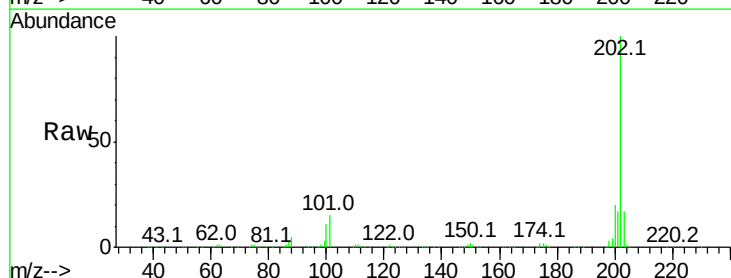
Tgt Ion:202 Resp: 535933

Ion Ratio Lower Upper

202 100

200 20.2 17.6 26.4

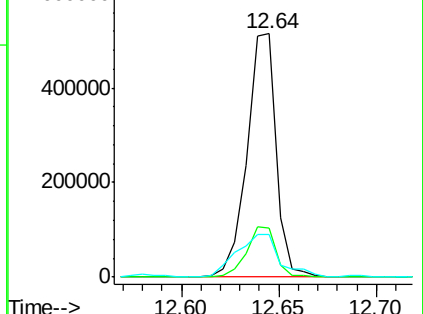
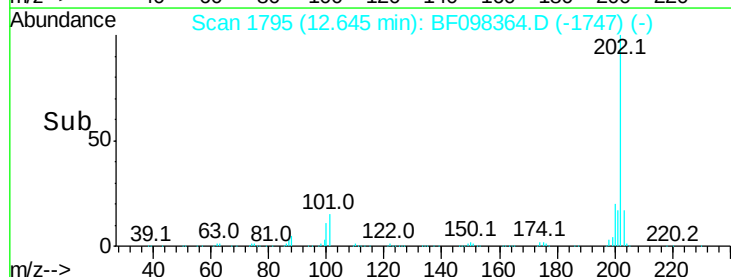
203 17.3 14.4 21.6

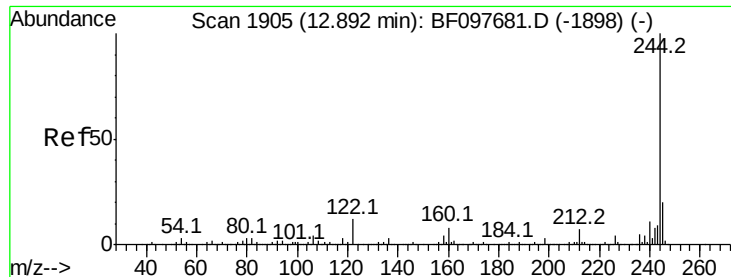


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 3.000 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.03 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

Instrument :

BNA_F

ClientSampleId :

RL-1-0-12.25

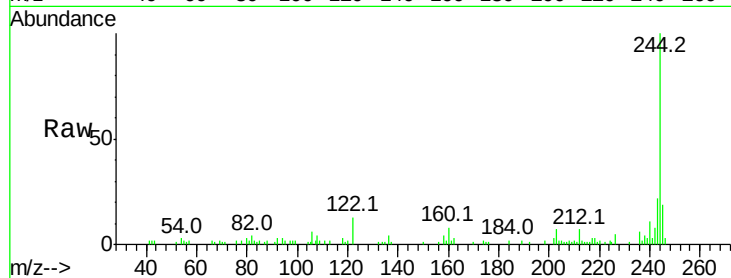
Tot Ion:244 Resp: 27733

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

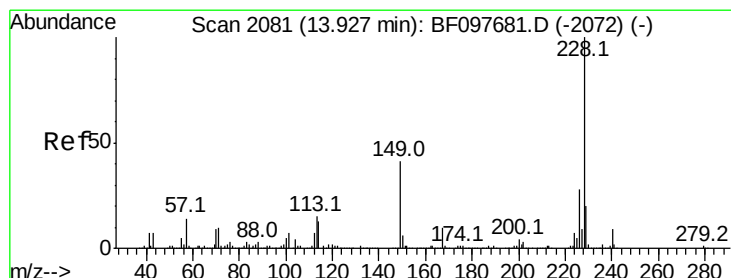
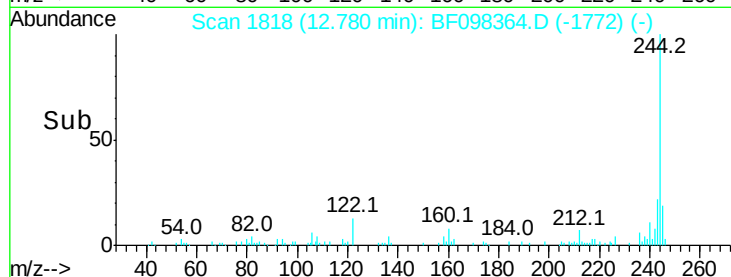
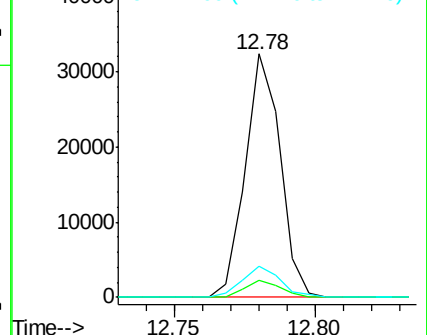
122 12.9 10.3 15.5



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: 26.083 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.02 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

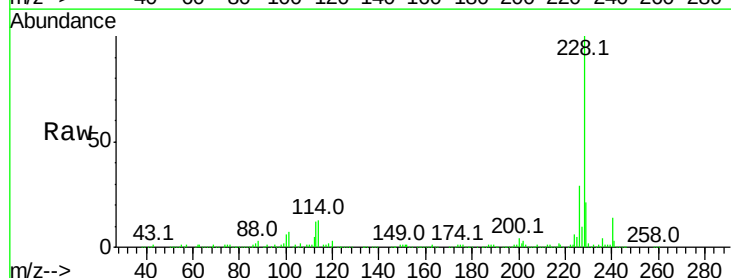
Tgt Ion:228 Resp: 301366

Ion Ratio Lower Upper

228 100

226 29.1 22.6 33.8

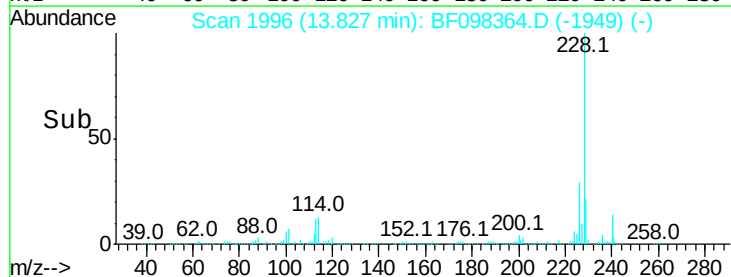
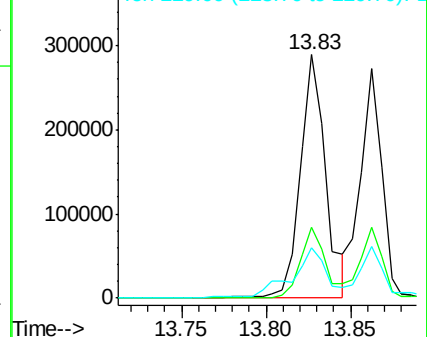
229 20.8 16.3 24.5

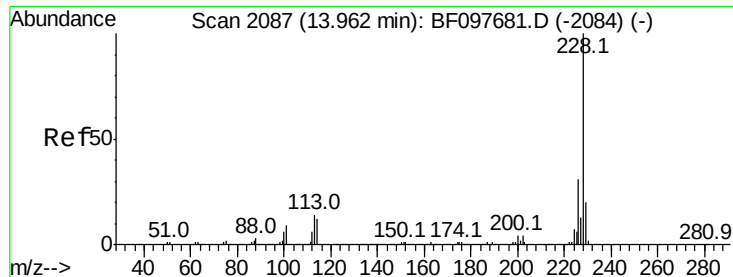


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 20.876 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.02 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

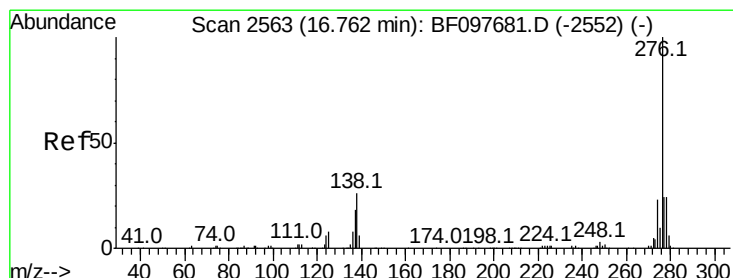
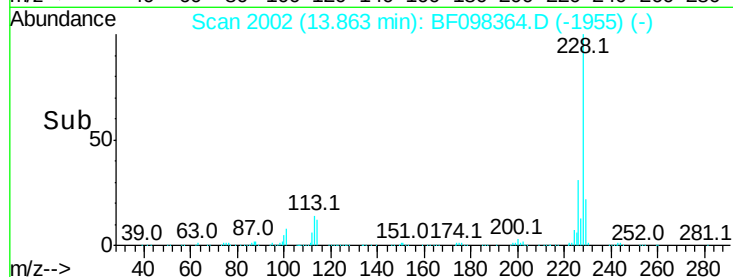
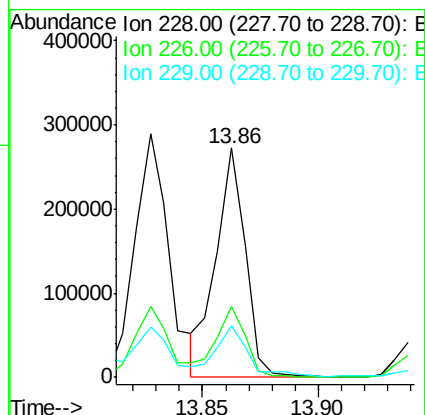
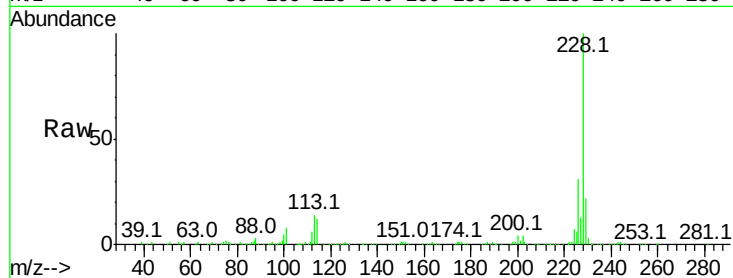
Instrument :

BNA_F

ClientSampleId :

RL-1-0-12.25

Tot Ion:	228	Resp:	239940
Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.9	37.3
229	22.3	15.8	23.6



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.171 ng

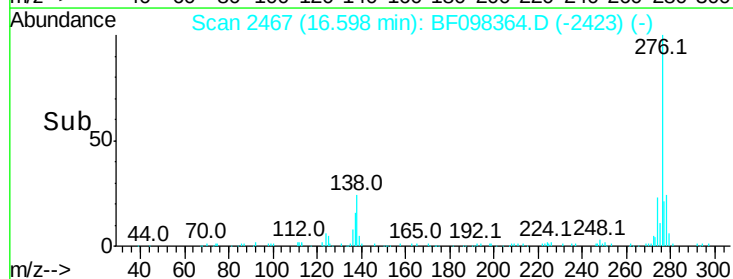
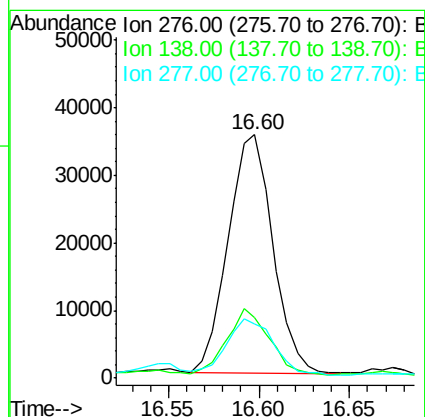
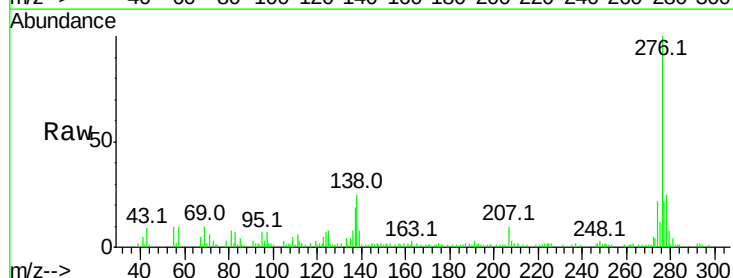
RT: 16.60 min Scan# 2467

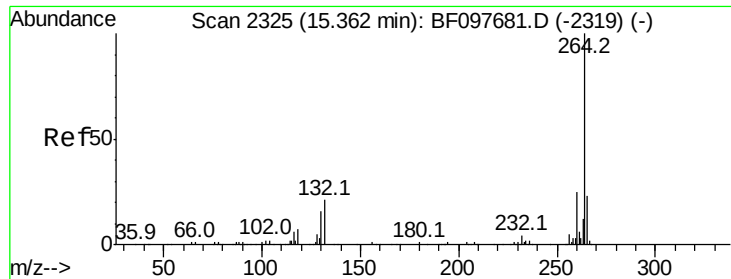
Delta R.T. -0.04 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

Tgt Ion:	276	Resp:	60637
Ion	Ratio	Lower	Upper
276	100		
138	26.4	27.8	41.6#
277	24.8	20.2	30.4



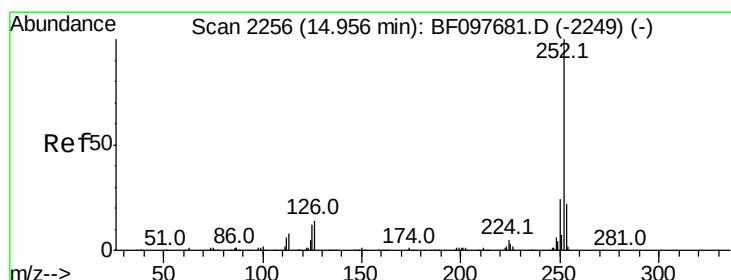
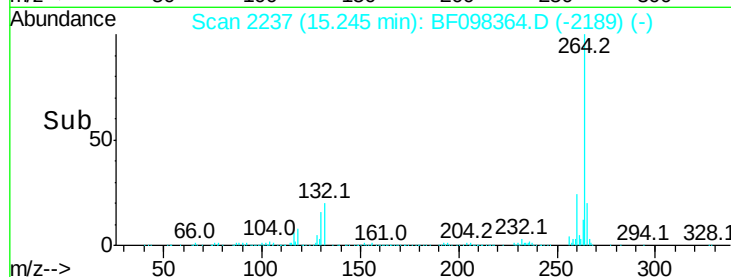
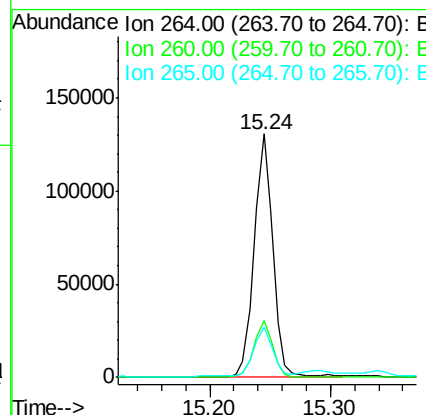
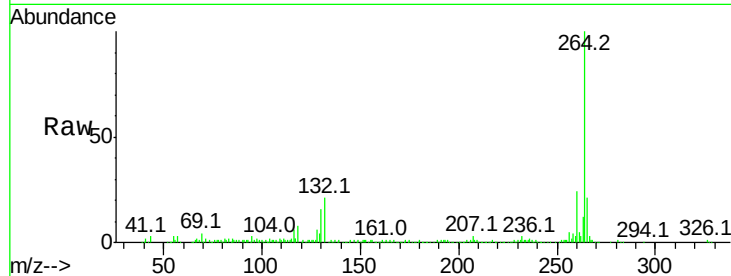


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.24 min Scan# 2237
Delta R.T. -0.02 min
Lab File: BF098364.D
Acq: 8 Sep 2017 21:35

Instrument :
BNA_F
ClientSampleId :
RL-1-0-12.25

Tot Ion:264 Resp: 142858

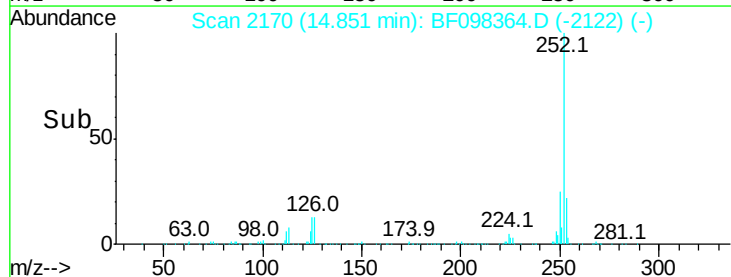
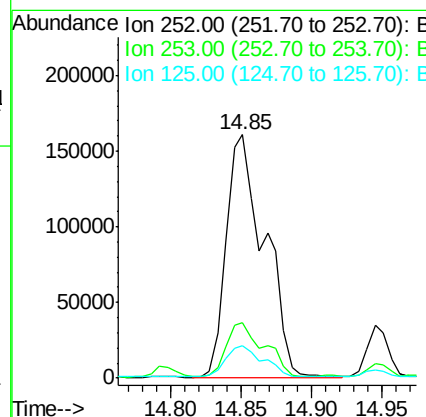
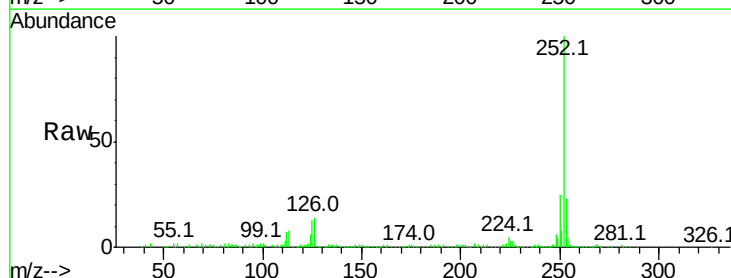
Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	20.8	17.2	25.8

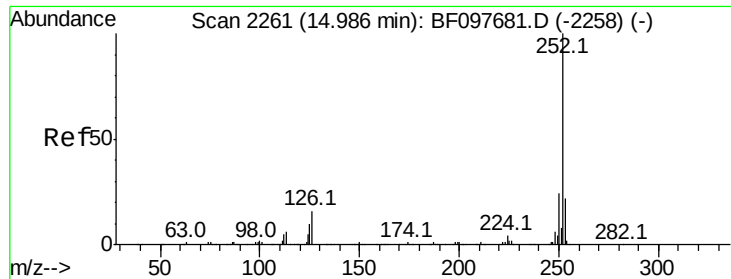


#87
Benzo(b)fluoranthene
Concen: 33.772 ng
RT: 14.85 min Scan# 2170
Delta R.T. -0.02 min
Lab File: BF098364.D
Acq: 8 Sep 2017 21:35

Tgt Ion:252 Resp: 304114

Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	13.3	9.8	14.8

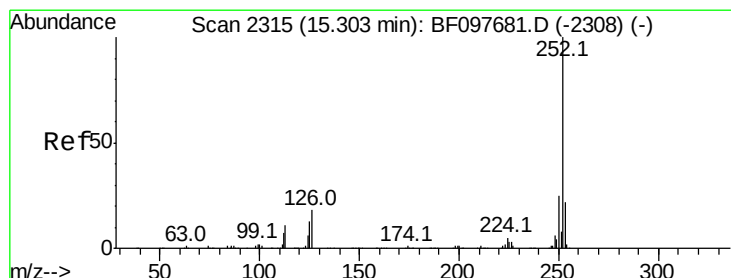
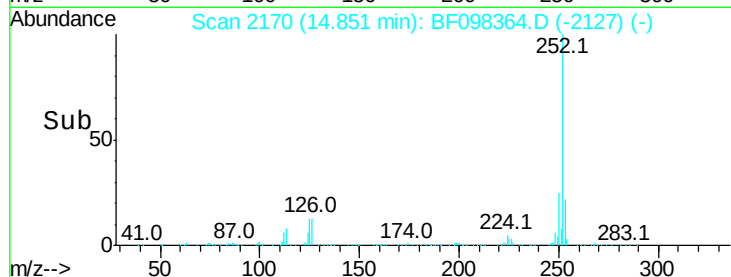
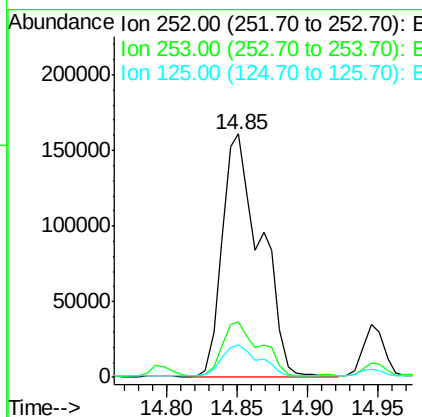
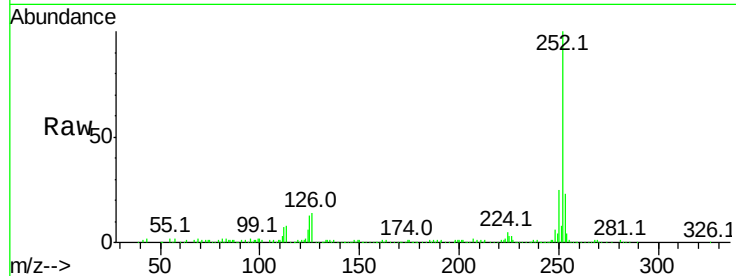




#88
Benzo(k)fluoranthene
Concen: 35.947 ng
RT: 14.85 min Scan# 2170
Delta R.T. -0.05 min
Lab File: BF098364.D
Acq: 8 Sep 2017 21:35

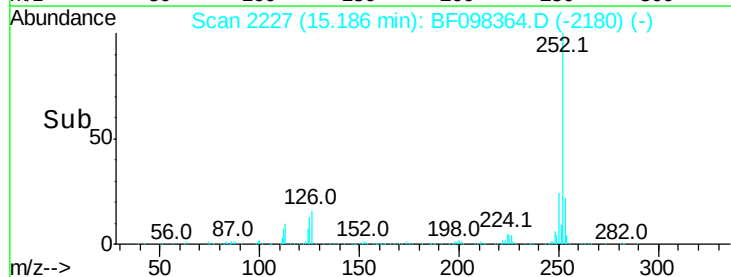
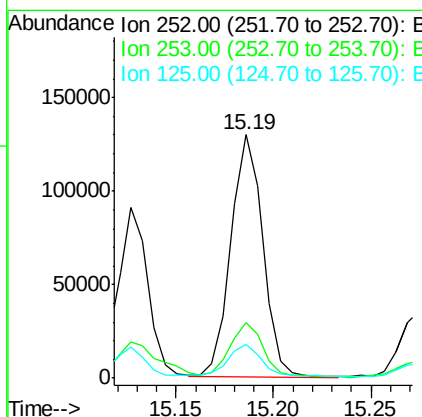
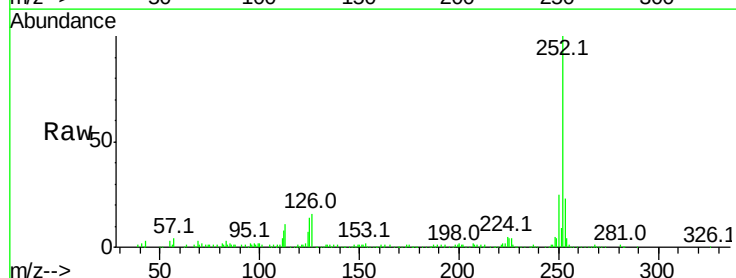
Instrument :
BNA_F
ClientSampleId :
RL-1-0-12.25

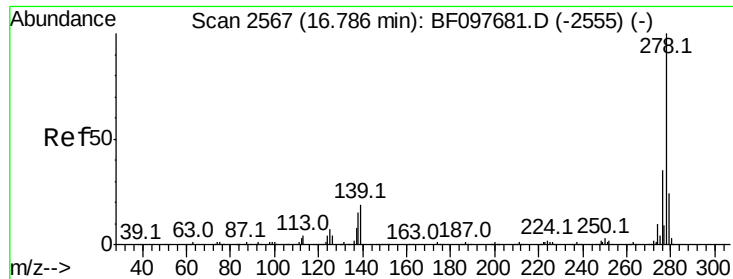
Tot Ion:252 Resp: 304114
Ion Ratio Lower Upper
252 100
253 22.7 18.4 27.6
125 13.3 13.1 19.7



#89
Benzo(a)pyrene
Concen: 18.466 ng
RT: 15.19 min Scan# 2227
Delta R.T. -0.02 min
Lab File: BF098364.D
Acq: 8 Sep 2017 21:35

Tgt Ion:252 Resp: 147204
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 13.8 11.0 16.4





#90

Dibenzo(a,h)anthracene

Concen: 2.743 ng

RT: 16.60 min Scan# 2467

Delta R.T. -0.05 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

Instrument :

BNA_F

ClientSampleId :

RL-1-0-12.25

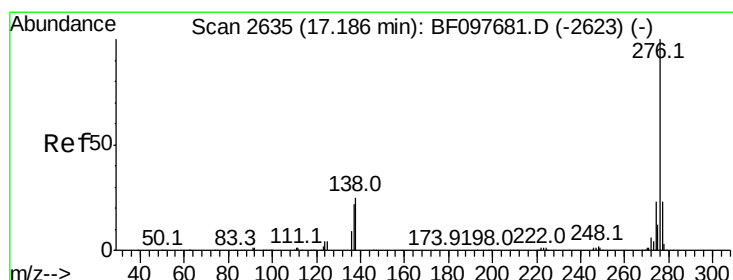
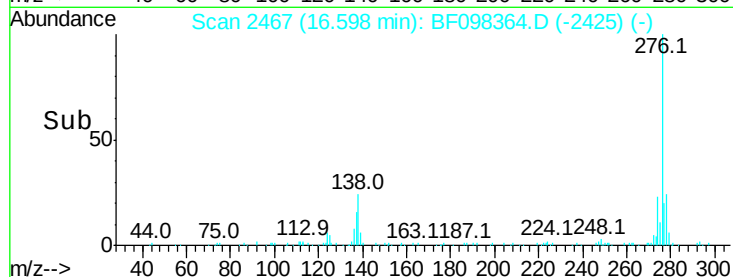
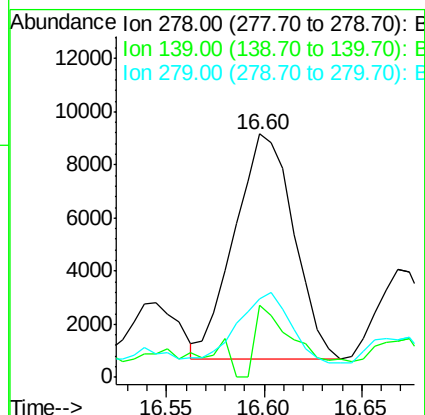
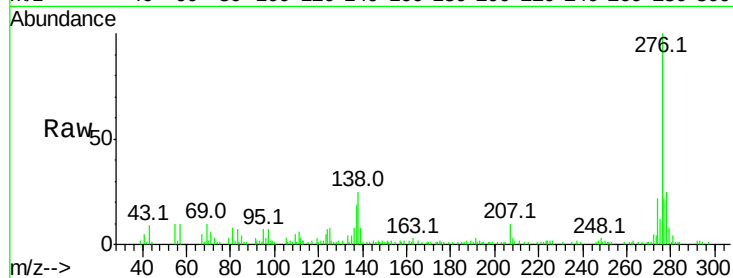
Tot Ion:278 Resp: 17805

Ion Ratio Lower Upper

278 100

139 29.6 16.6 24.8#

279 32.3 19.3 28.9#



#91

Benzo(g,h,i)perylene

Concen: 8.512 ng

RT: 17.00 min Scan# 2536

Delta R.T. -0.05 min

Lab File: BF098364.D

Acq: 8 Sep 2017 21:35

Tgt Ion:276 Resp: 57640

Ion Ratio Lower Upper

276 100

277 24.2 18.6 28.0

138 31.1 25.4 38.0

