

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101217\
 Data File : BF099420.D
 Acq On : 13 Oct 2017 3:01
 Operator : SJ/JU
 Sample : I5731-01
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 13 04:39:10 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	112059	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	431750	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	159152	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	257345	20.00	ng	0.00
75) Chrysene-d12	14.02	240	210788	20.00	ng	0.00
86) Perylene-d12	15.50	264	160533	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.48	112	627656	89.16	ng	0.01
7) Phenol-d6	6.49	99	754994	86.94	ng	0.00
23) Nitrobenzene-d5	7.42	82	444512	66.03	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	109145	83.81	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	629993	66.08	ng	0.00
78) Terphenyl-d14	12.96	244	475489	51.30	ng	0.00

Target Compounds

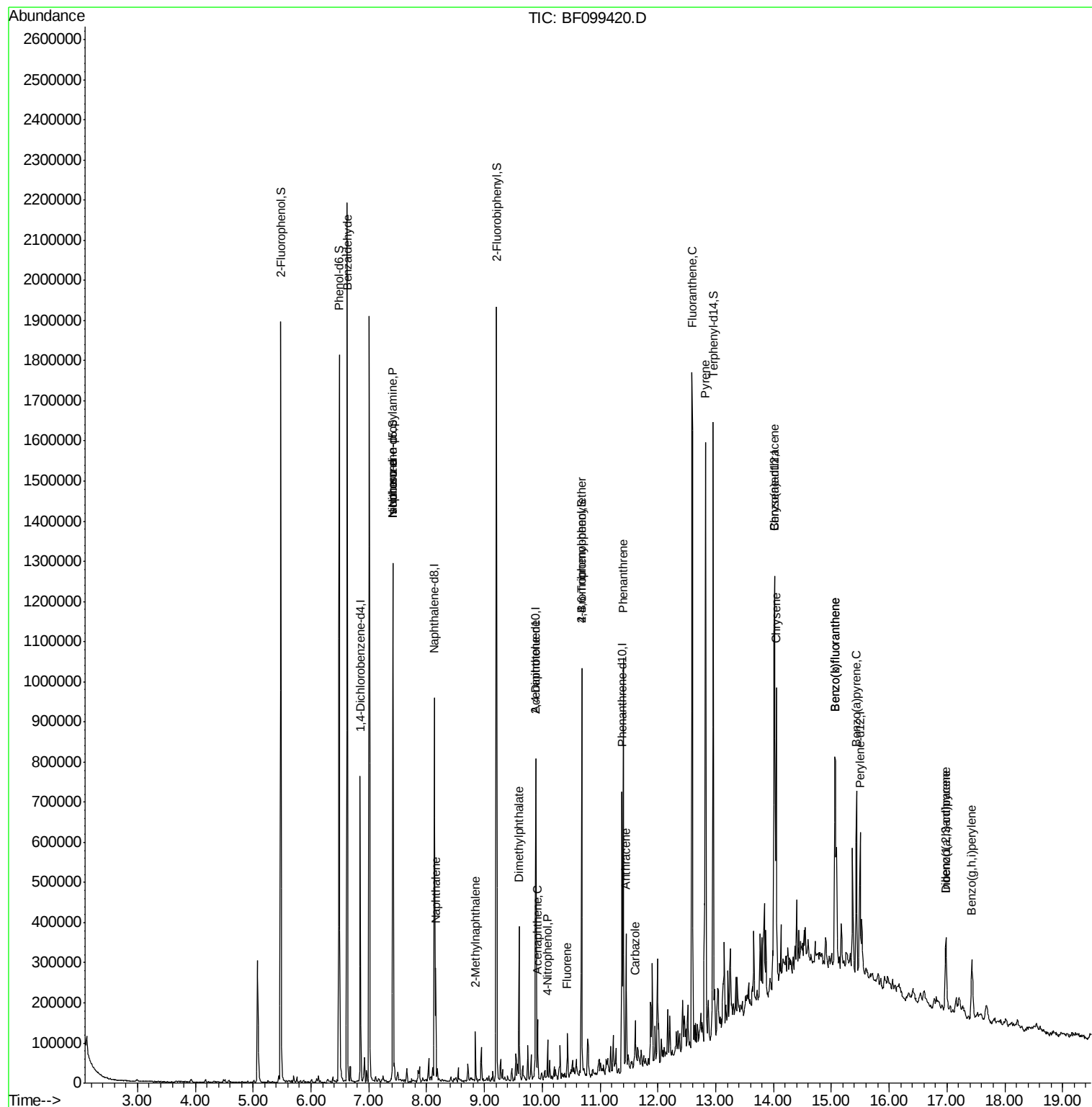
						Qvalue
9) Benzaldehyde	6.63	77	12268	2.44	ng	84
19) n-Nitroso-di-n-propylamine	7.42	70	57180	10.31	ng	# 74
25) Isophorone	7.42	82	444509	31.93	ng	# 64
31) Naphthalene	8.16	128	43403	2.14	ng	100
37) 2-Methylnaphthalene	8.85	142	32110	2.44	ng	99
49) Dimethylphthalate	9.60	163	157859	13.14	ng	99
51) Acenaphthene	9.92	154	28213	2.83	ng	96
55) 4-Nitrophenol	10.09	139	9565	3.71	ng	# 12
56) 2,4-Dinitrotoluene	9.89	165	21984	6.48	ng	# 22
57) Fluorene	10.43	166	29767	2.79	ng	97
66) 4-Bromophenyl-phenylether	10.68	248	7223	2.87	ng	# 1
70) Phenanthrene	11.40	178	394829	28.66	ng	98
71) Anthracene	11.45	178	114150	8.10	ng	98
72) Carbazole	11.61	167	43170	3.13	ng	96
74) Fluoranthene	12.59	202	698779	50.10	ng	99
77) Pyrene	12.83	202	648485	40.35	ng	99
80) Benzo(a)anthracene	14.01	228	319959	25.07	ng	98
82) Chrysene	14.04	228	278373	22.91	ng	97
85) Indeno(1,2,3-cd)pyrene	16.98	276	110041	11.32	ng	98
87) Benzo(b)fluoranthene	15.06	252	412477	41.79	ng	# 95
88) Benzo(k)fluoranthene	15.06	252	412477	42.31	ng	98
89) Benzo(a)pyrene	15.43	252	204707	22.59	ng	96
90) Dibenzo(a,h)anthracene	16.99	278	30347	4.19	ng	# 83
91) Benzo(g,h,i)perylene	17.43	276	106380	14.84	ng	94

(#) = 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: BF099420.D

Acq: 13 Oct 2017 3:01

Instrument :
BNA_F
ClientSampleId :

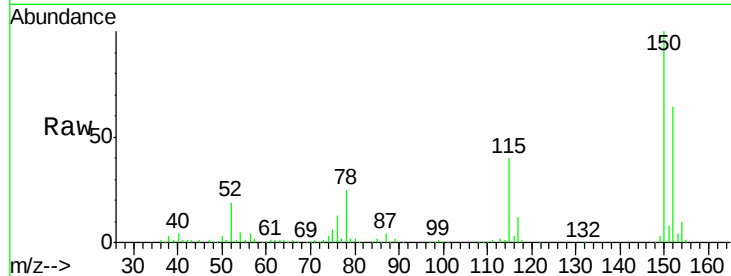
Tot Ion:152 Resp: 112059

Ion Ratio Lower Upper

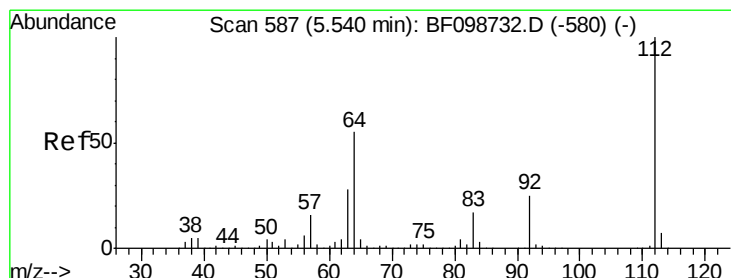
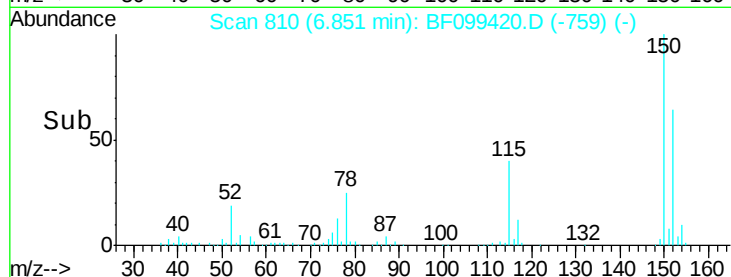
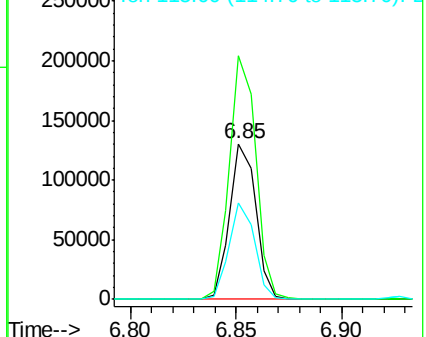
152 100

150 156.7 124.6 186.8

115 62.4 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: 89.16 ng

RT: 5.48 min Scan# 577

Delta R.T. 0.01 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

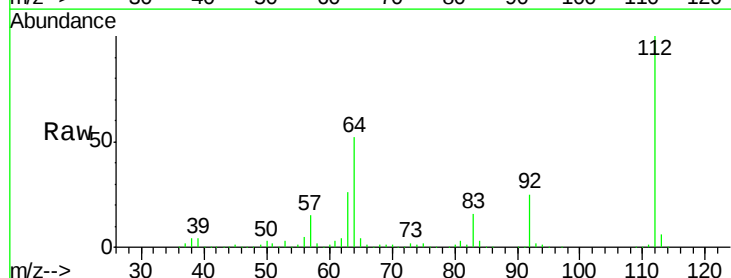
Tgt Ion:112 Resp: 627656

Ion Ratio Lower Upper

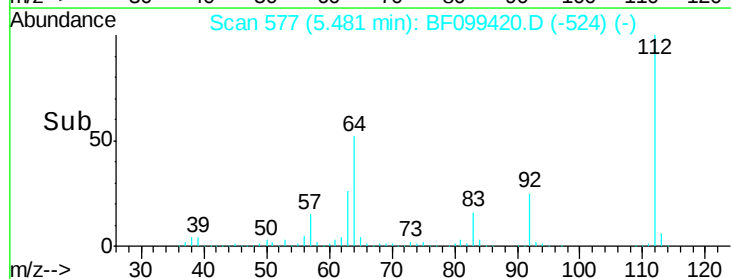
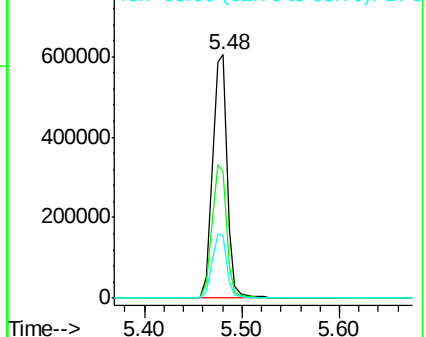
112 100

64 51.8 47.9 71.9

63 25.7 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: 86.94 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

Instrument :

BNA_F

ClientSampleId :

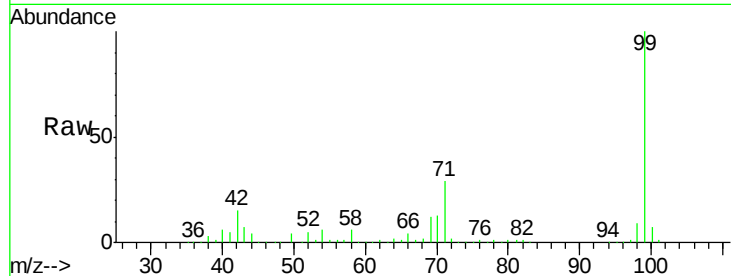
Tot Ion: 99 Resp: 754994

Ion Ratio Lower Upper

99 100

42 14.5 14.5 21.7

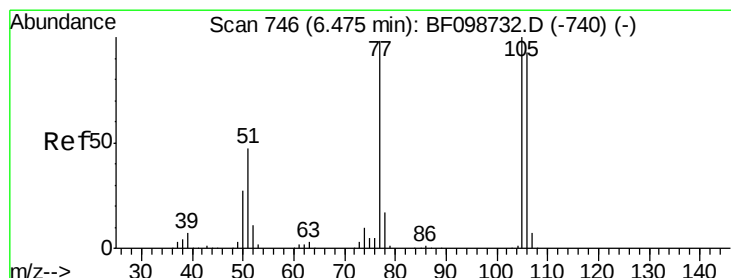
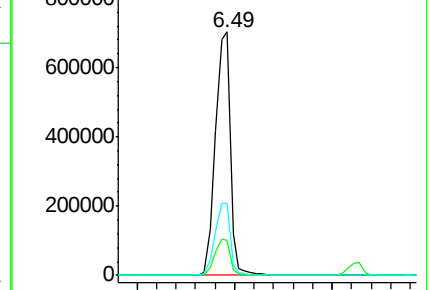
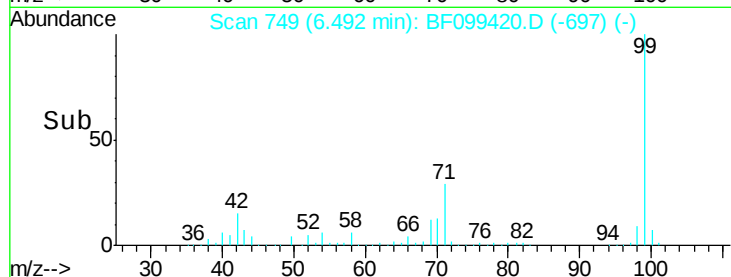
71 29.4 25.4 38.0



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



#9

Benzaldehyde

Concen: 2.44 ng

RT: 6.63 min Scan# 772

Delta R.T. 0.22 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

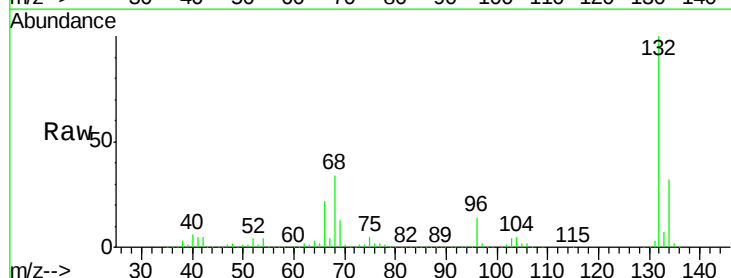
Tgt Ion: 77 Resp: 12268

Ion Ratio Lower Upper

77 100

105 82.9 81.1 121.1

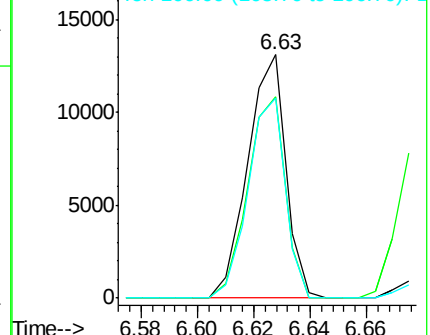
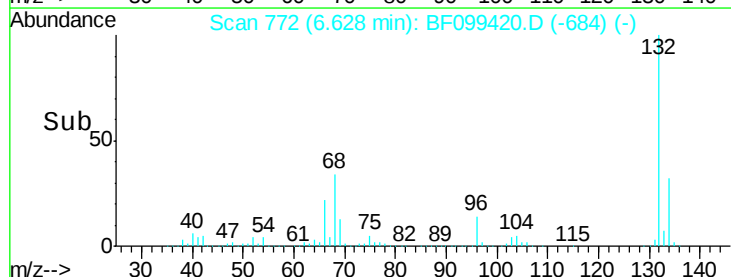
106 81.9 74.5 114.5

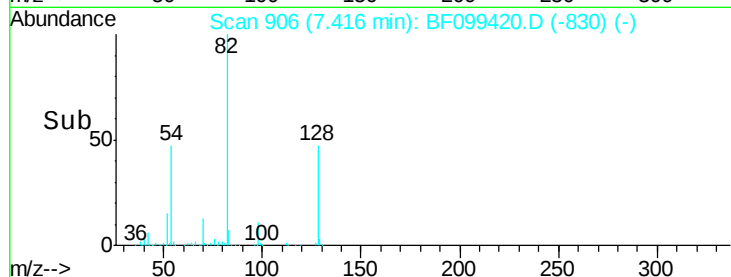
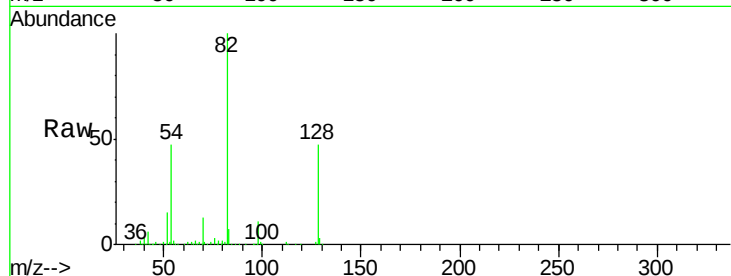


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 10.31 ng

RT: 7.42 min Scan# 906

Delta R.T. 0.15 min

Lab File: BF099420.D

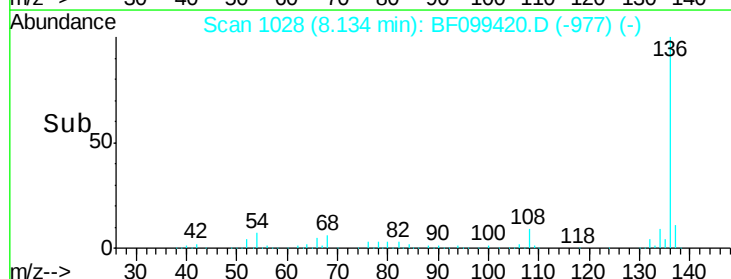
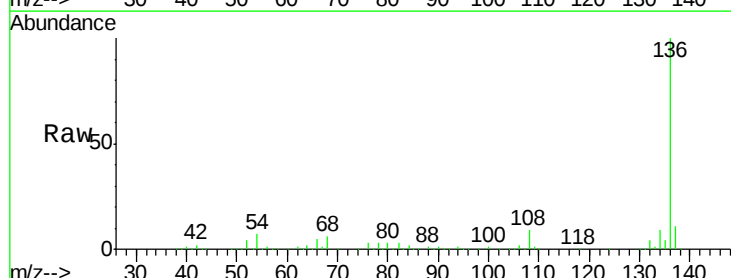
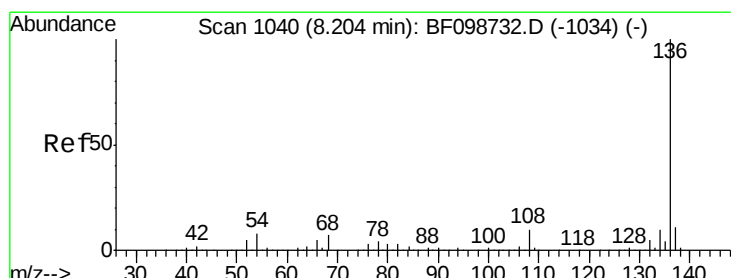
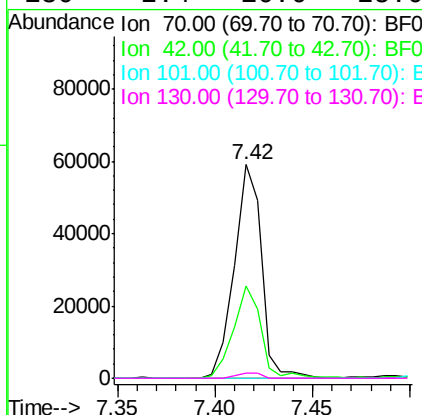
Acq: 13 Oct 2017 3:01

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	70	Resp:	57180
Ion	Ratio	Lower	Upper
70	100		
42	43.1	47.5	71.3#
101	0.0	7.4	11.2#
130	2.4	16.6	25.0#



#21

Naphthalene-d8

Concen: 20.00 ng

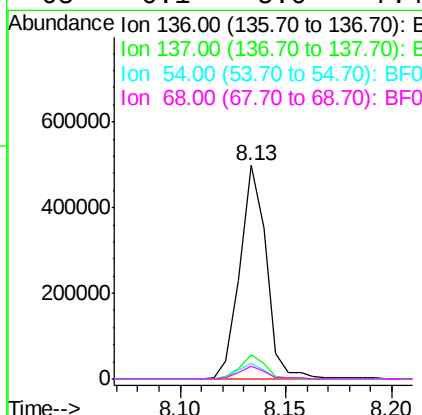
RT: 8.13 min Scan# 1028

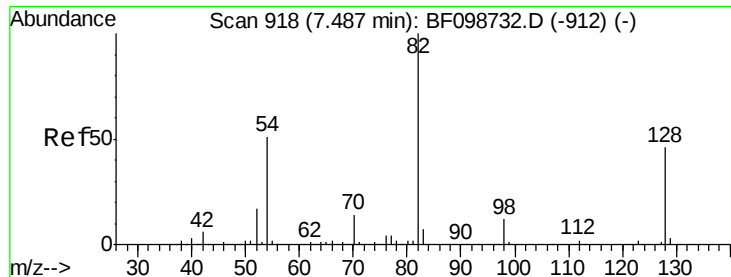
Delta R.T. 0.00 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

Tgt Ion:	136	Resp:	431750
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	7.2	6.6	9.8
68	6.1	5.0	7.4

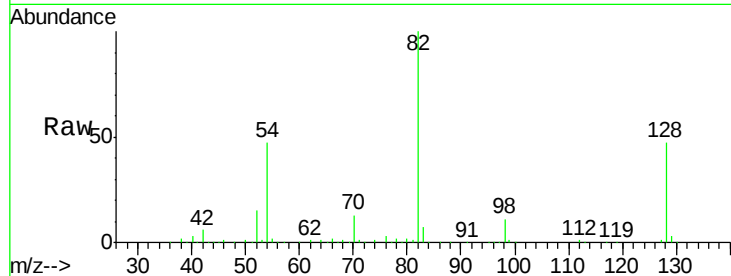




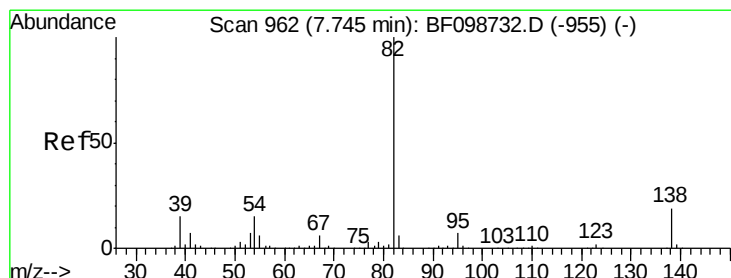
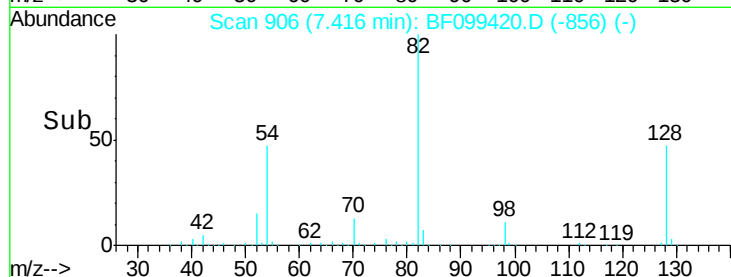
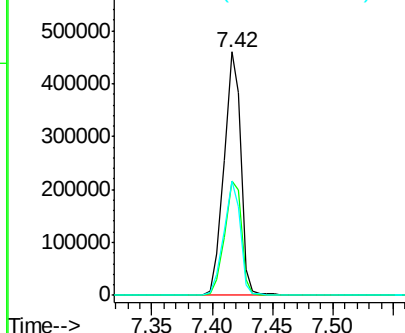
#23
Nitrobenzene-d5
Concen: 66.03 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF099420.D
Acq: 13 Oct 2017 3:01

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 444512
Ion Ratio Lower Upper
82 100
128 46.8 36.1 54.1
54 47.1 41.4 62.2

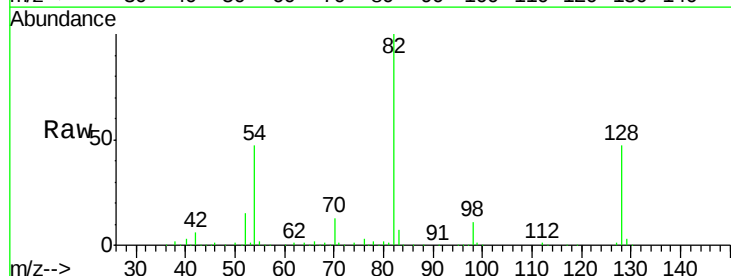


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): BF0
Ion 54.00 (53.70 to 54.70): BF0

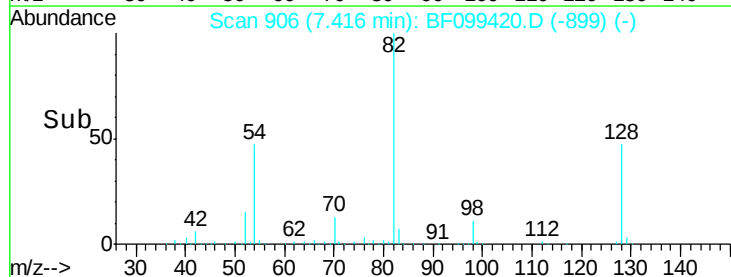
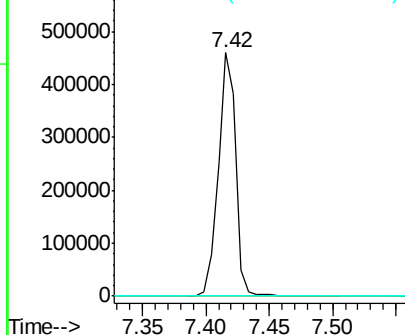


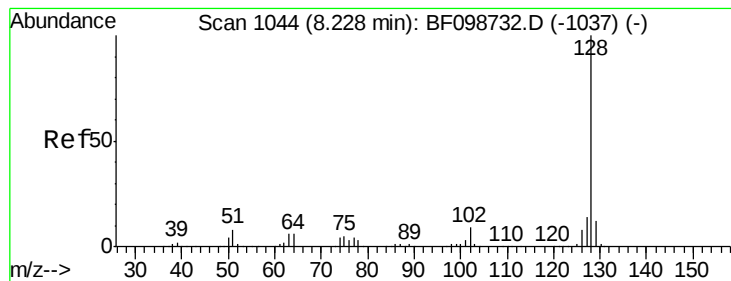
#25
Isophorone
Concen: 31.93 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.26 min
Lab File: BF099420.D
Acq: 13 Oct 2017 3:01

Tgt Ion: 82 Resp: 444509
Ion Ratio Lower Upper
82 100
95 0.1 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): BF0





#31

Naphthalene

Concen: 2.14 ng

RT: 8.16 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

Instrument :

BNA_F

ClientSampleId :

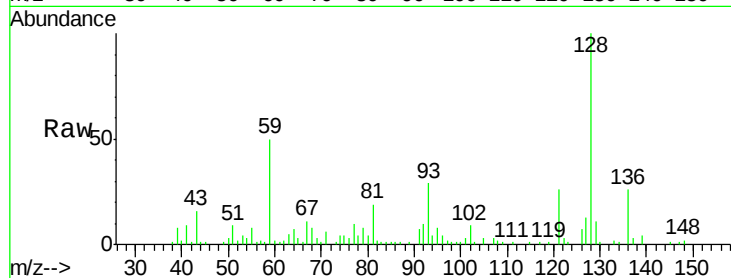
Tot Ion:128 Resp: 43403

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

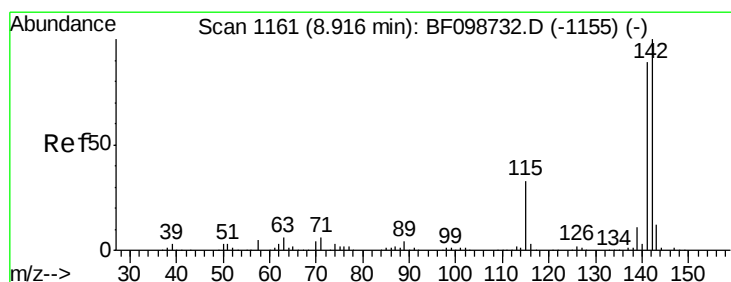
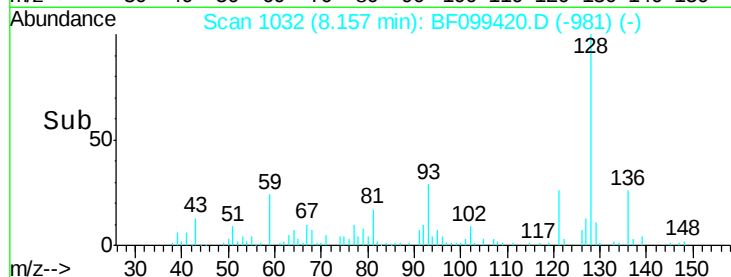
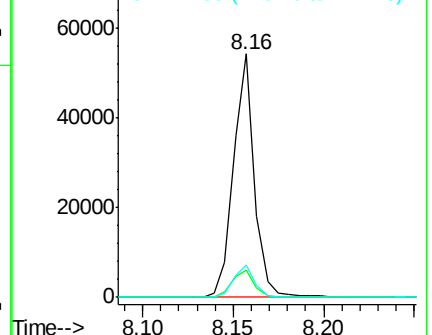
127 13.4 10.9 16.3



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: 2.44 ng

RT: 8.85 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

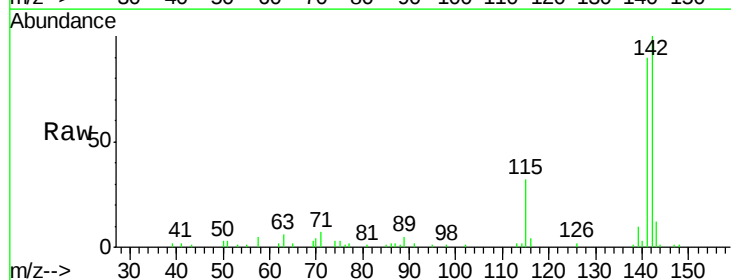
Tgt Ion:142 Resp: 32110

Ion Ratio Lower Upper

142 100

141 89.8 70.8 106.2

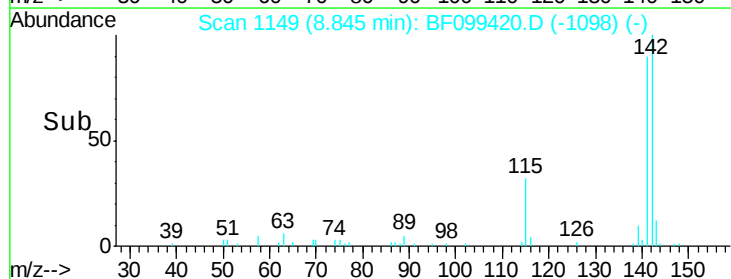
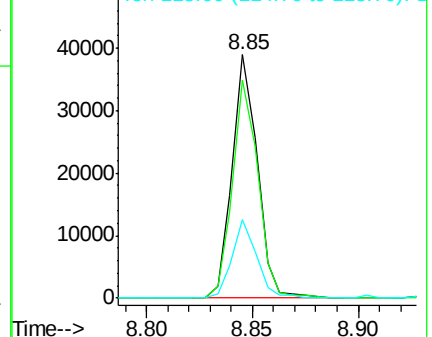
115 32.3 26.1 39.1

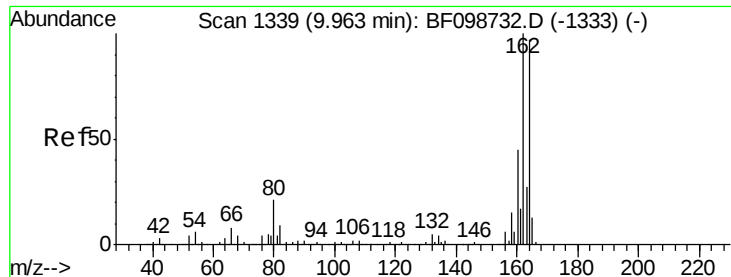


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

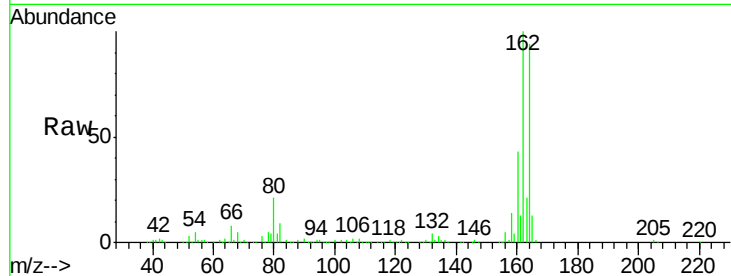




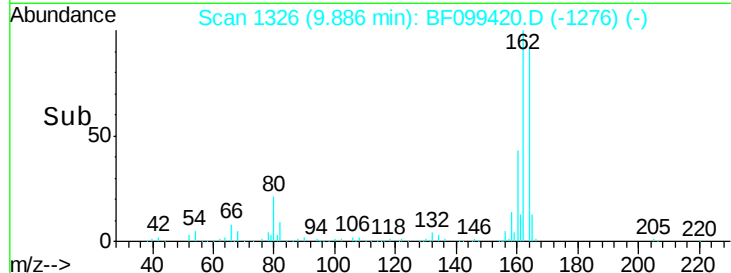
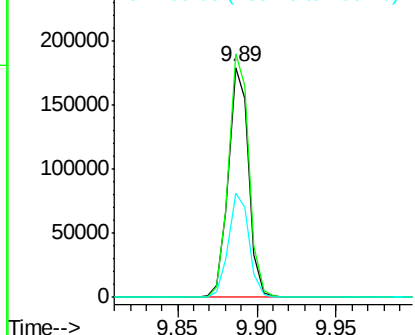
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: BF099420.D
 Acq: 13 Oct 2017 3:01

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 159152
 Ion Ratio Lower Upper
 164 100
 162 105.9 86.1 129.1
 160 45.1 38.3 57.5

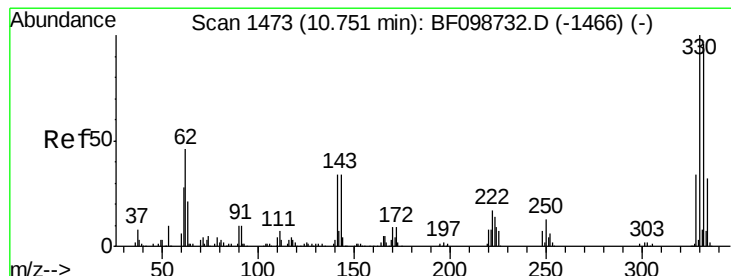


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

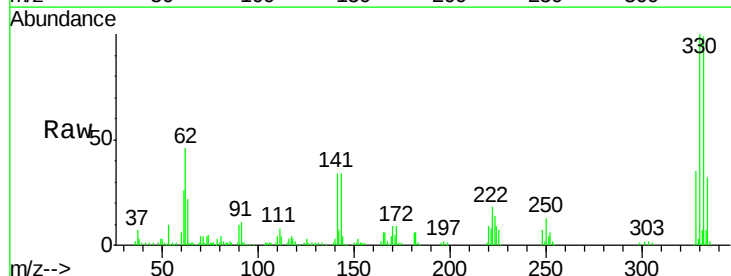
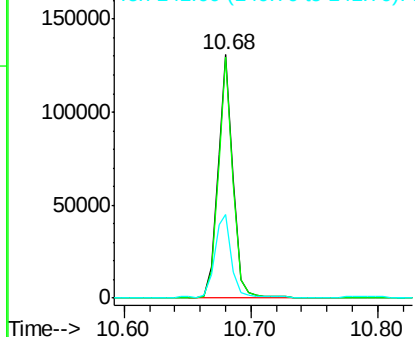


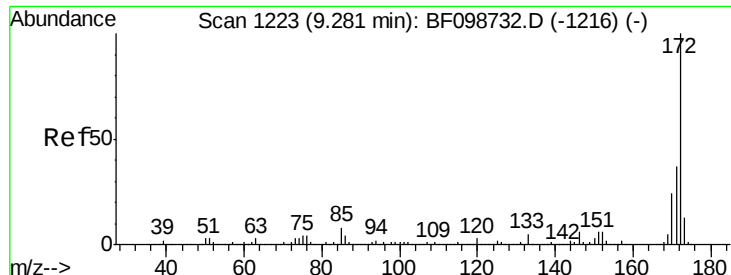
#41
 2,4,6-Tribromophenol
 Concen: 83.81 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. 0.00 min
 Lab File: BF099420.D
 Acq: 13 Oct 2017 3:01

Tgt Ion:330 Resp: 109145
 Ion Ratio Lower Upper
 330 100
 332 96.4 77.0 115.6
 141 41.2 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

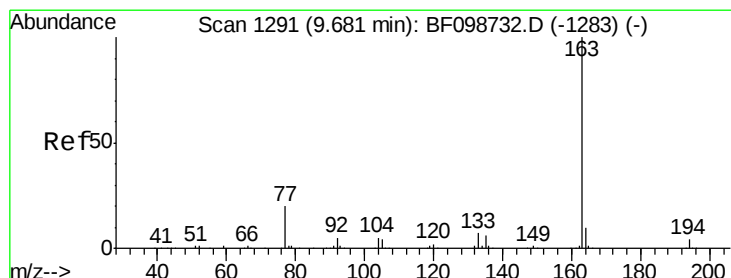
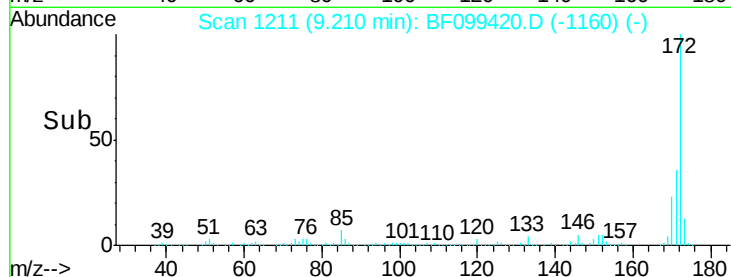
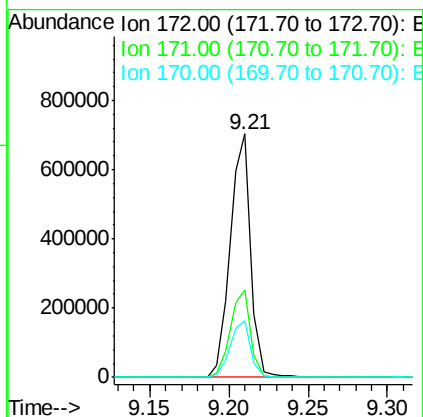
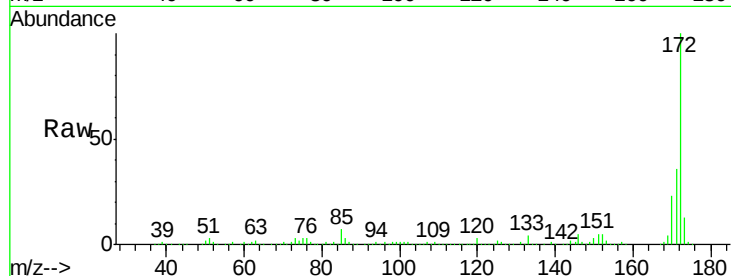




#44
 2-Fluorobiphenyl
 Concen: 66.08 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: BF099420.D
 Acq: 13 Oct 2017 3:01

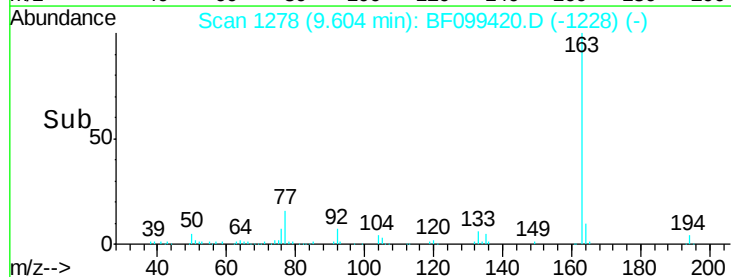
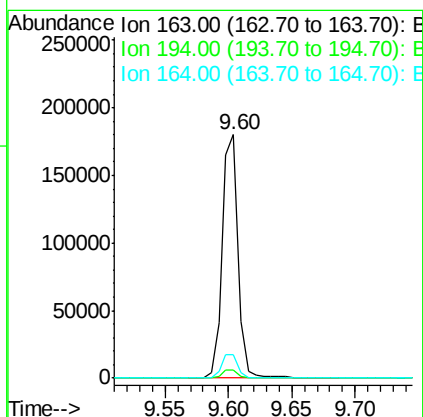
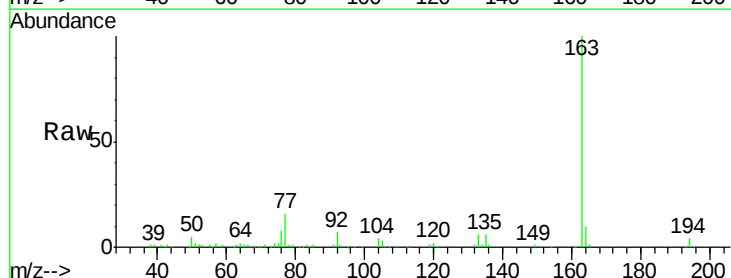
Instrument :
 BNA_F
 ClientSampleId :

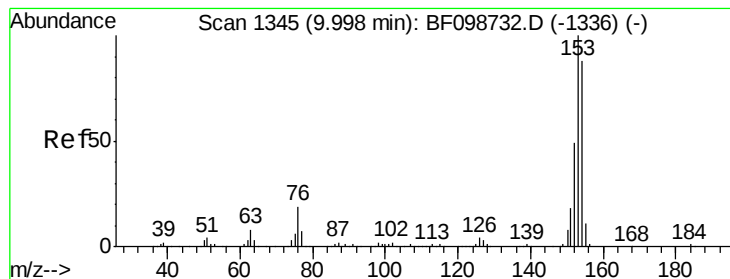
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.7	44.5
170	23.4	19.6	29.4



#49
 Dimethylphthalate
 Concen: 13.14 ng
 RT: 9.60 min Scan# 1278
 Delta R.T. -0.01 min
 Lab File: BF099420.D
 Acq: 13 Oct 2017 3:01

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	2.7	4.1
164	9.7	8.2	12.2





#51

Acenaphthene

Concen: 2.83 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

Instrument :

BNA_F

ClientSampleId :

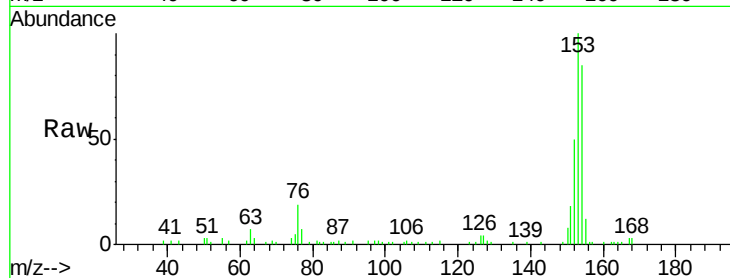
Tot Ion:154 Resp: 28213

Ion Ratio Lower Upper

154 100

153 117.0 91.2 136.8

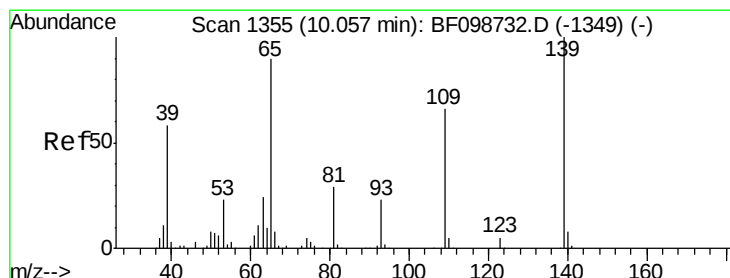
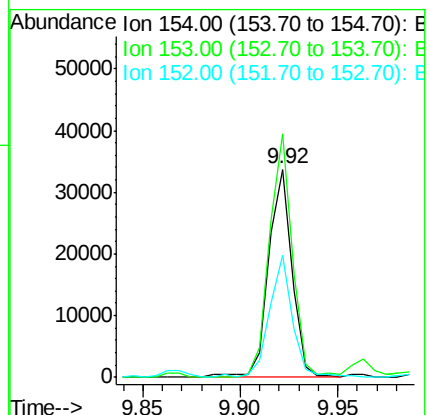
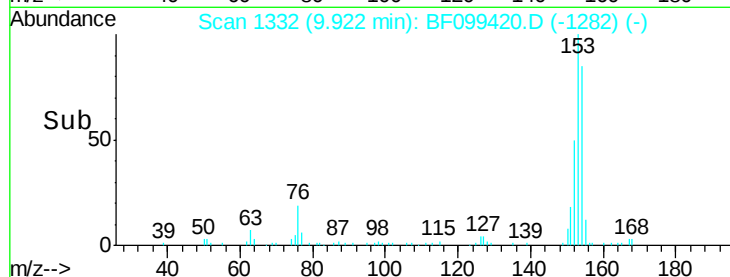
152 58.4 43.8 65.8



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



#55

4-Nitrophenol

Concen: 3.71 ng

RT: 10.09 min Scan# 1361

Delta R.T. 0.08 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

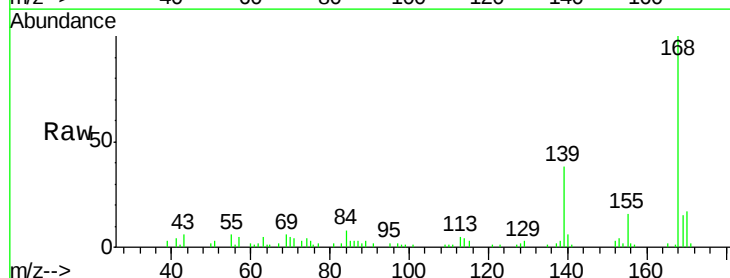
Tgt Ion:139 Resp: 9565

Ion Ratio Lower Upper

139 100

109 3.7 48.4 88.4#

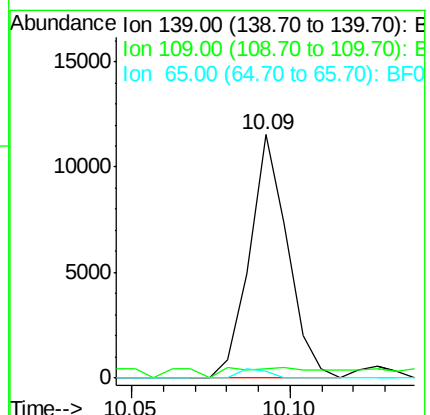
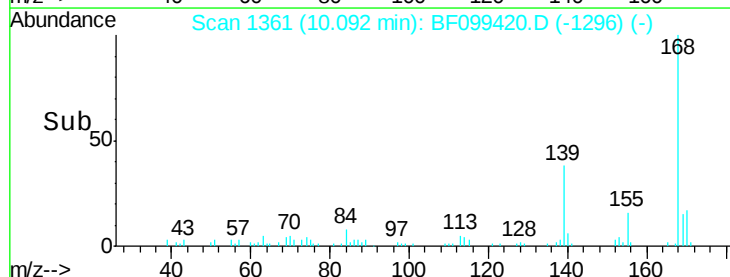
65 2.8 72.6 112.6#

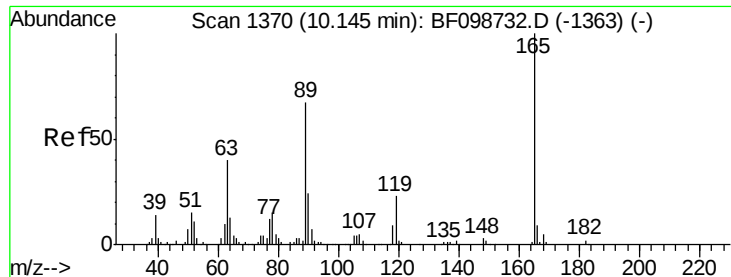


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

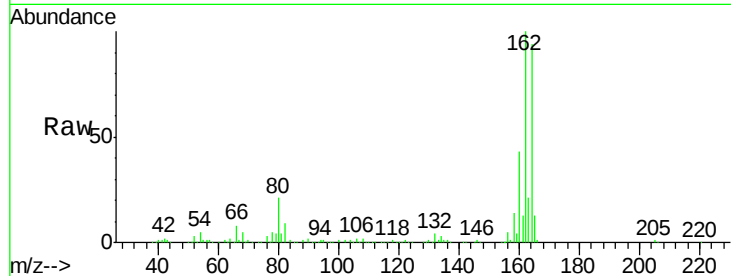




#56
2,4-Dinitrotoluene
Concen: 6.48 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.20 min
Lab File: BF099420.D
Acq: 13 Oct 2017 3:01

Instrument :
BNA_F
ClientSampleId :

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

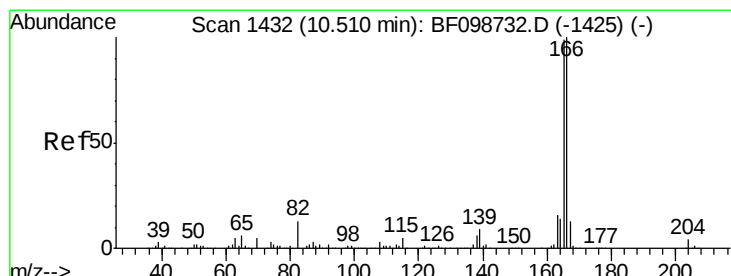
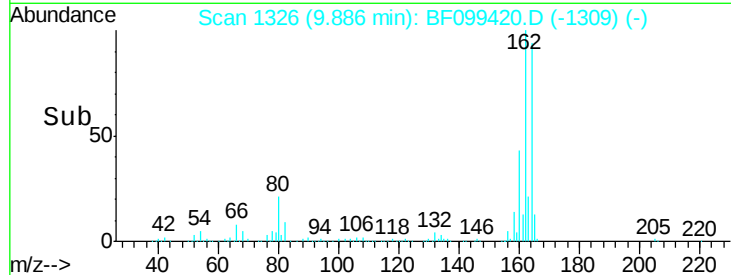
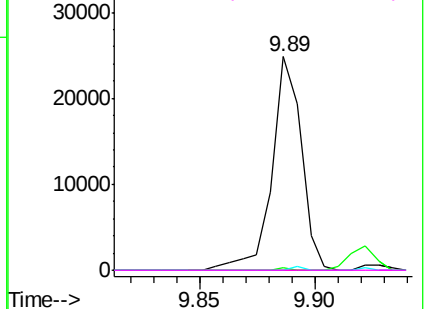


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

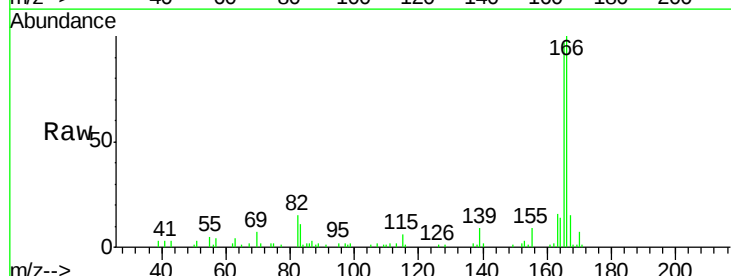
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57
Fluorene
Concen: 2.79 ng
RT: 10.43 min Scan# 1419
Delta R.T. -0.01 min
Lab File: BF099420.D
Acq: 13 Oct 2017 3:01

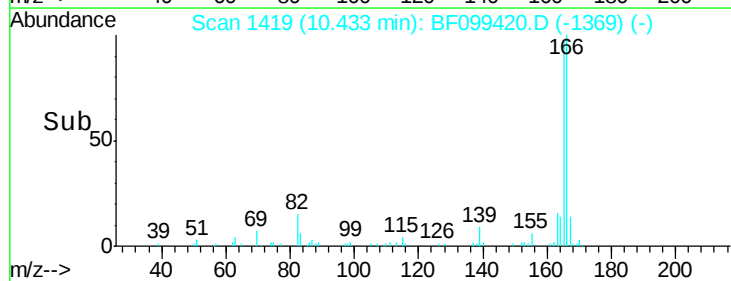
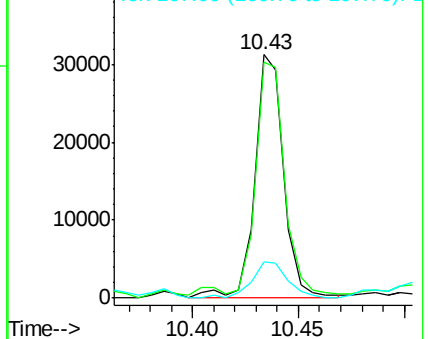
Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.7	79.8	119.8
167	14.7	10.6	16.0

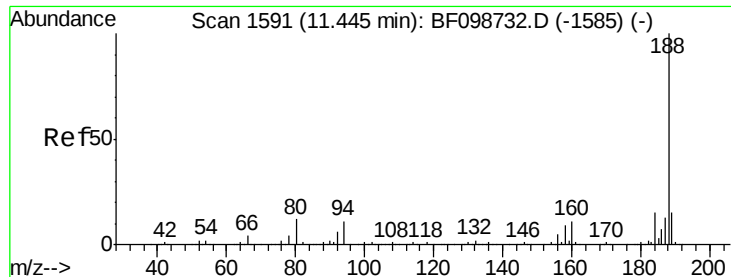


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

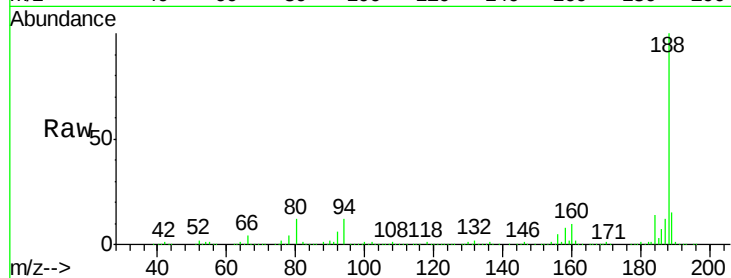




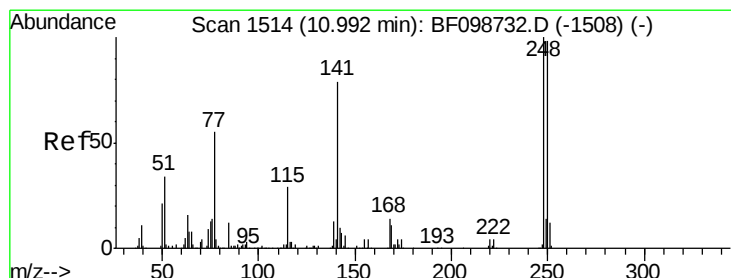
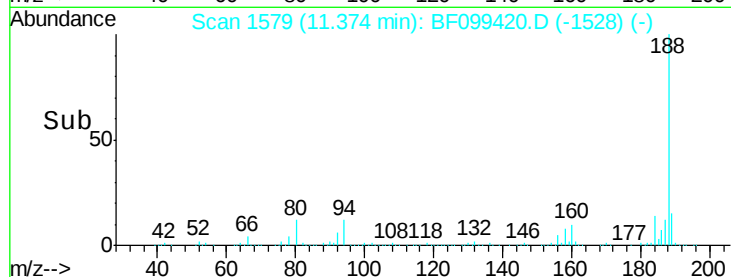
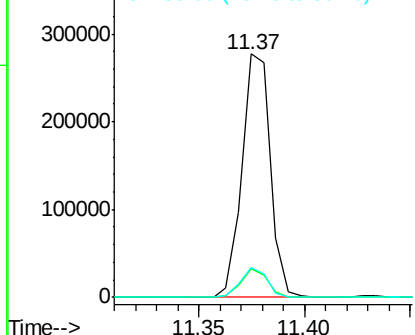
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF099420.D
Acq: 13 Oct 2017 3:01

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 257345
Ion Ratio Lower Upper
188 100
94 11.6 8.5 12.7
80 12.5 9.2 13.8

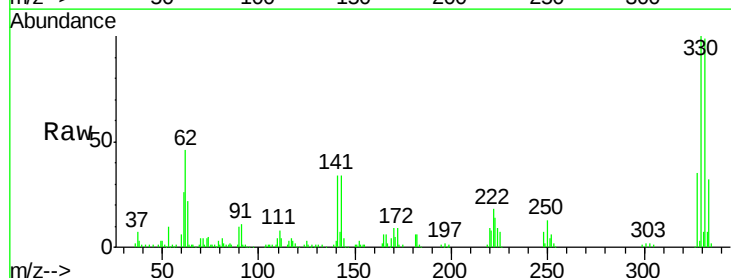


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

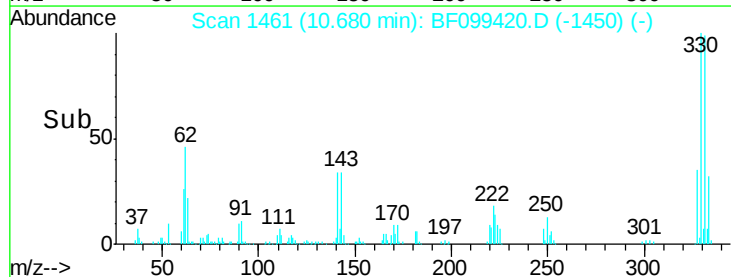
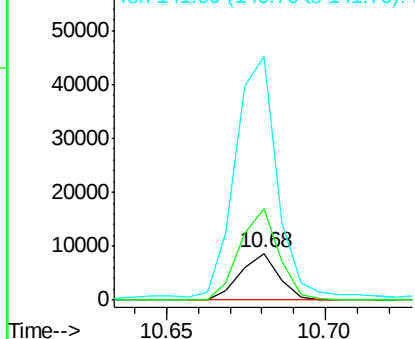


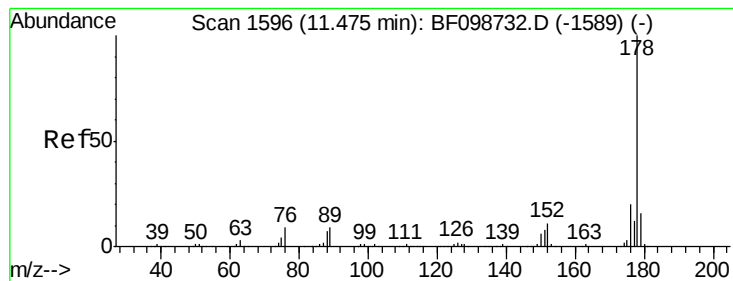
#66
4-Bromophenyl-phenylether
Concen: 2.87 ng
RT: 10.68 min Scan# 1461
Delta R.T. -0.24 min
Lab File: BF099420.D
Acq: 13 Oct 2017 3:01

Tgt Ion:248 Resp: 7223
Ion Ratio Lower Upper
248 100
250 195.9 76.9 115.3#
141 520.4 74.4 111.6#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 28.66 ng

RT: 11.40 min Scan# 1584

Delta R.T. 0.00 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

Instrument :

BNA_F

ClientSampleId :

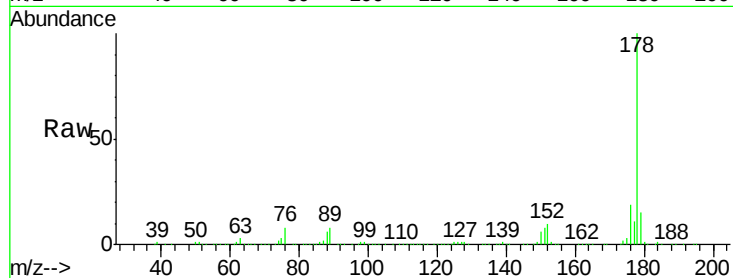
Tot Ion:178 Resp: 394829

Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.8

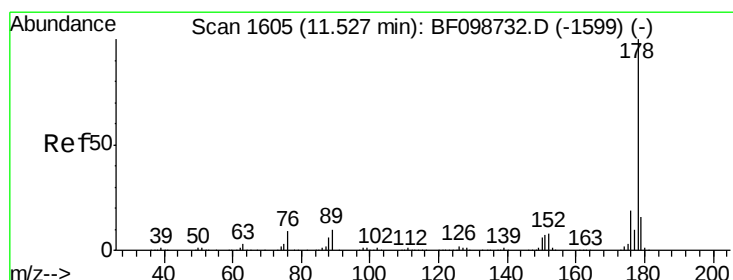
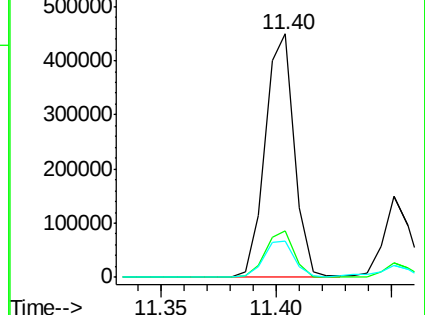
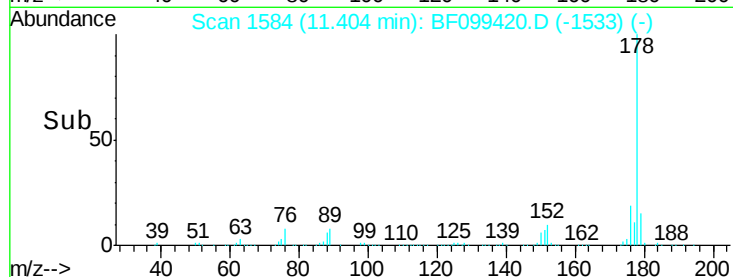
179 14.9 13.0 19.6



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: 8.10 ng

RT: 11.45 min Scan# 1592

Delta R.T. 0.00 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

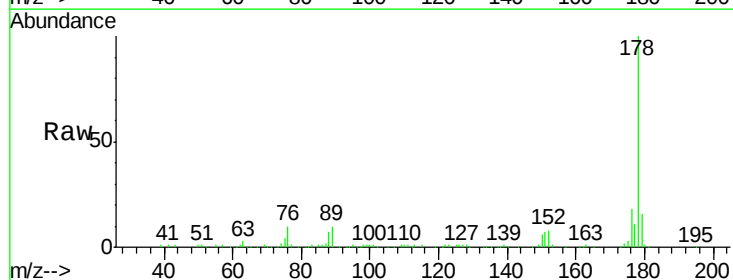
Tgt Ion:178 Resp: 114150

Ion Ratio Lower Upper

178 100

176 17.7 15.4 23.2

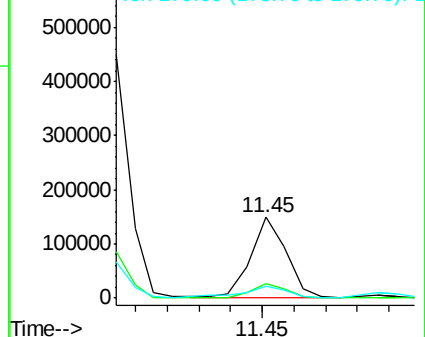
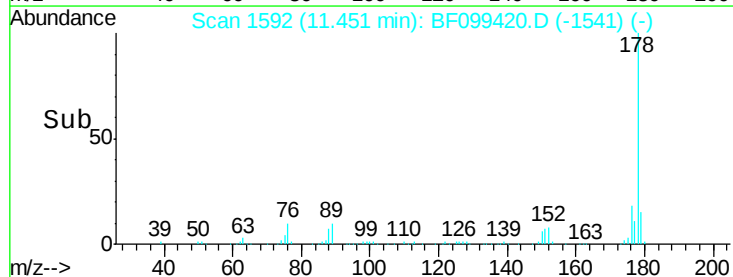
179 15.5 12.6 19.0

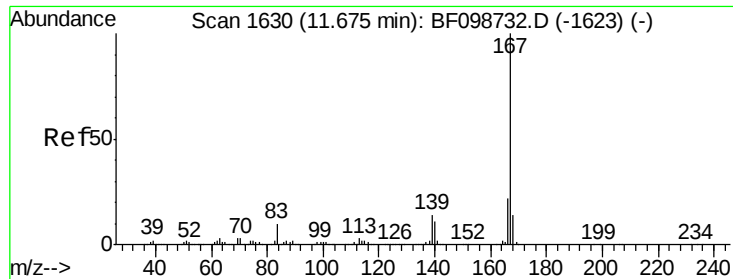


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.13 ng

RT: 11.61 min Scan# 1619

Delta R.T. 0.00 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

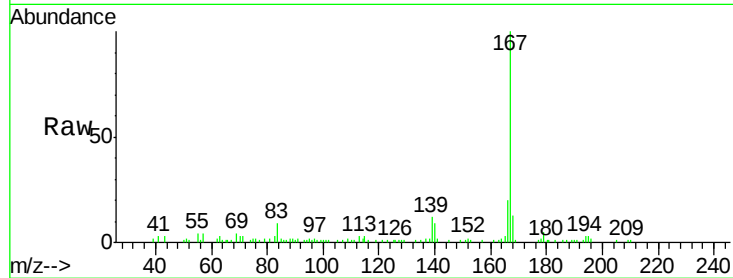
Instrument :

BNA_F

ClientSampleId :

Tot Ion:167 Resp: 43170

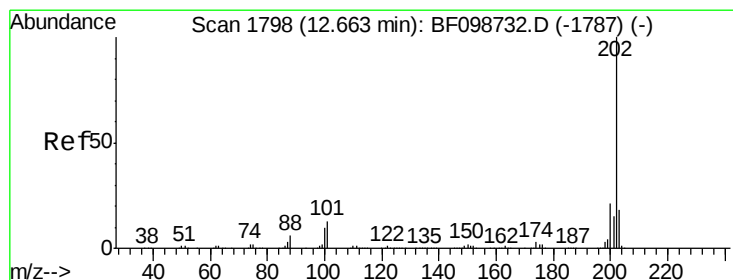
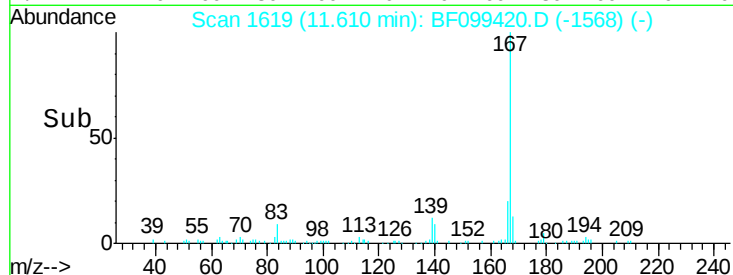
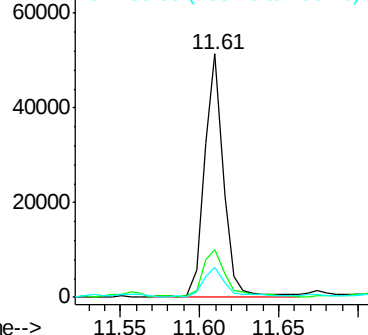
Ion	Ratio	Lower	Upper
167	100		
166	19.8	17.6	26.4
139	12.1	10.9	16.3



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: 50.10 ng

RT: 12.59 min Scan# 1786

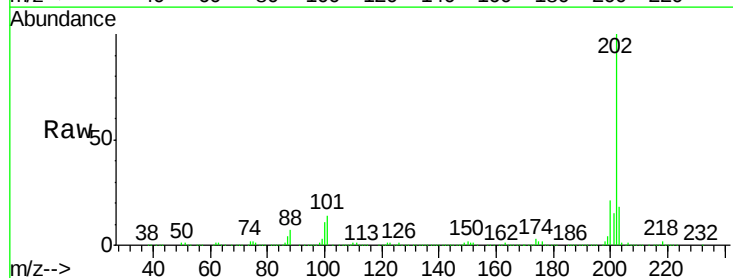
Delta R.T. 0.01 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

Tgt Ion:202 Resp: 698779

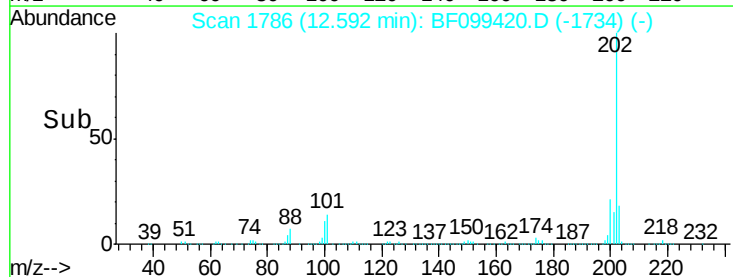
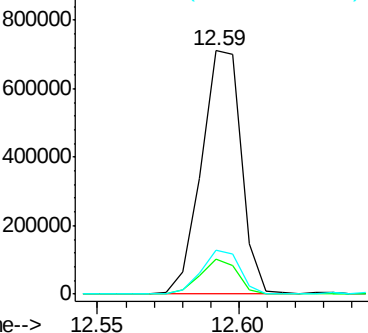
Ion	Ratio	Lower	Upper
202	100		
101	14.4	0.0	34.1
203	17.9	0.0	38.1

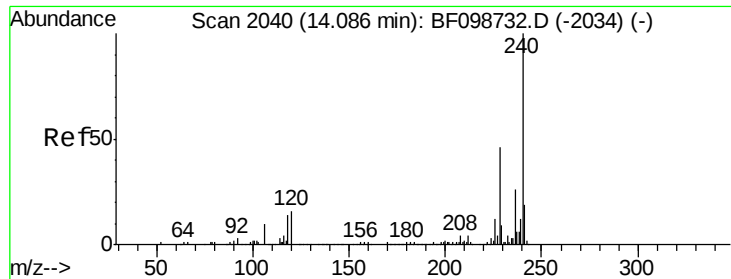


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

Instrument :

BNA_F

ClientSampleId :

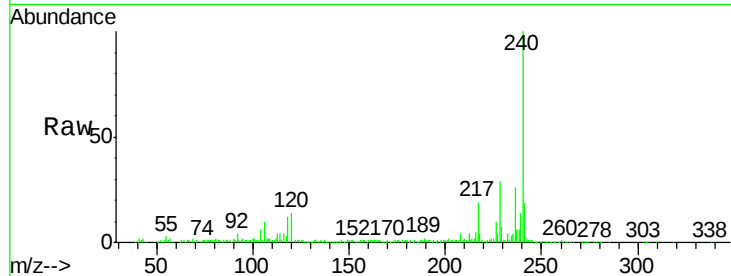
Tot Ion:240 Resp: 210788

Ion Ratio Lower Upper

240 100

120 14.5 9.5 14.3#

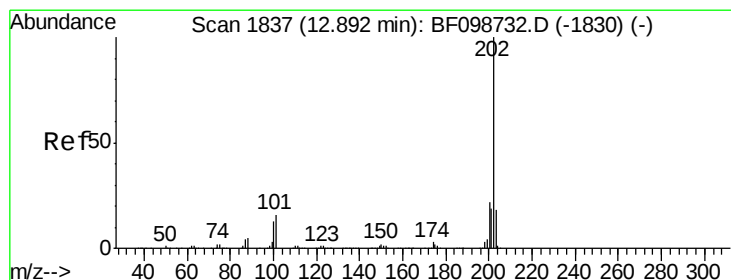
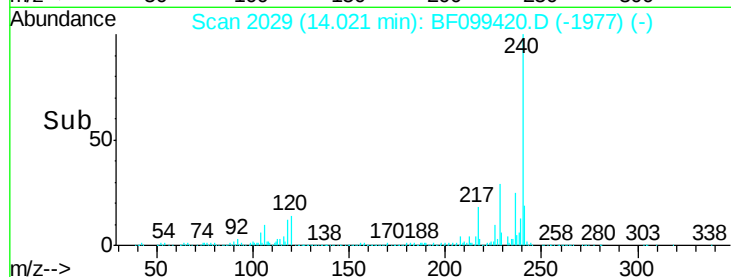
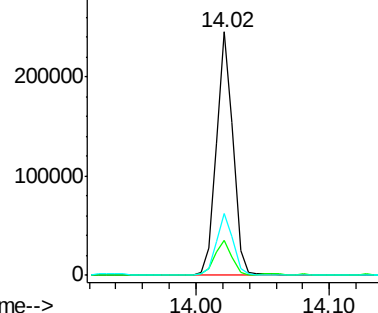
236 25.6 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 40.35 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.01 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

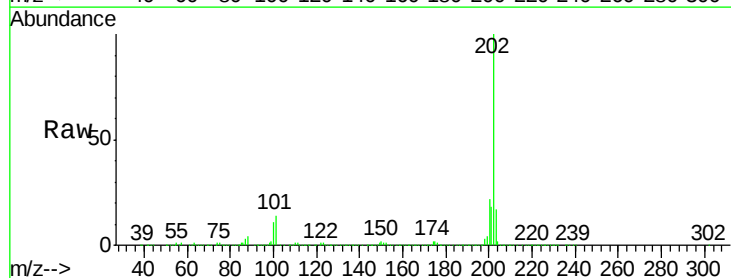
Tgt Ion:202 Resp: 648485

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

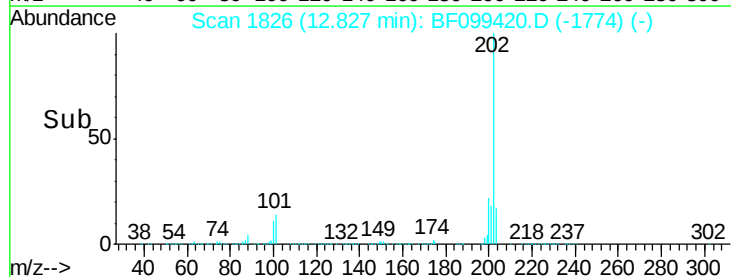
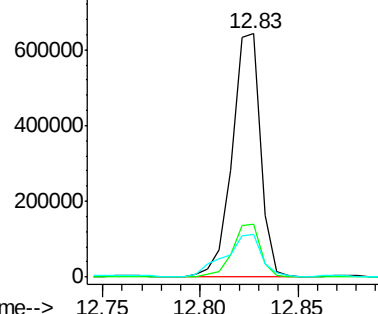
203 17.3 14.3 21.5

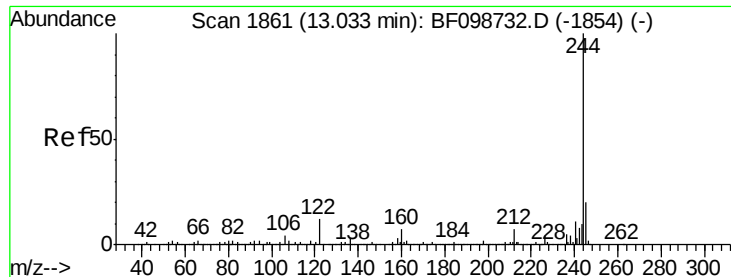


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

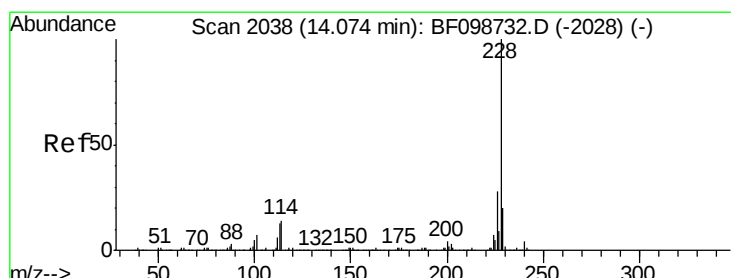
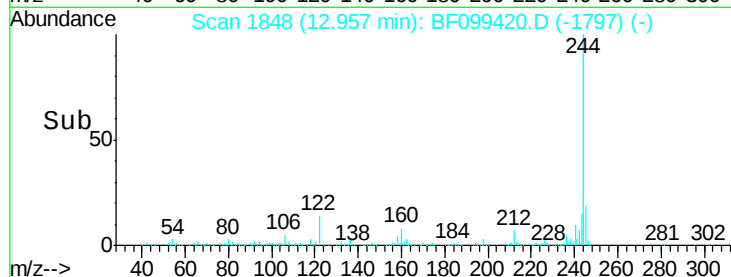
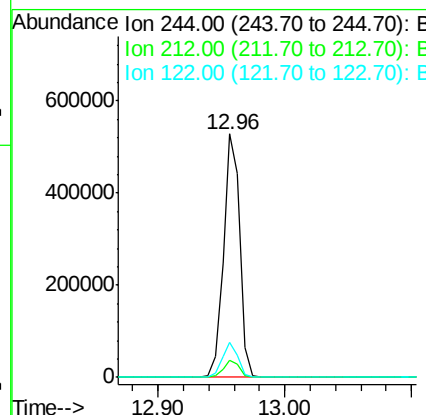
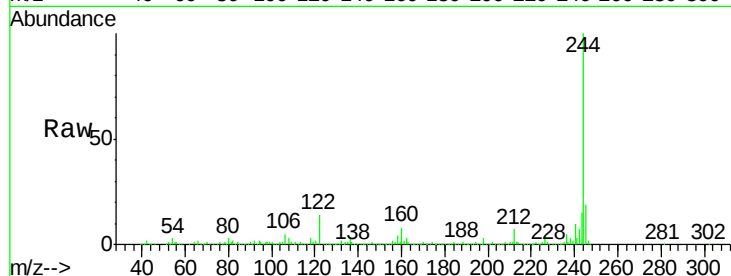




#78
 Terphenyl-d14
 Concen: 51.30 ng
 RT: 12.96 min Scan# 1848
 Delta R.T. 0.00 min
 Lab File: BF099420.D
 Acq: 13 Oct 2017 3:01

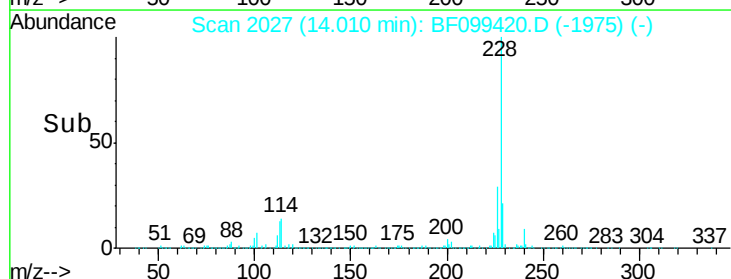
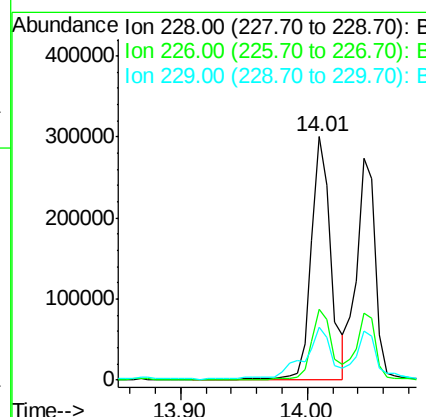
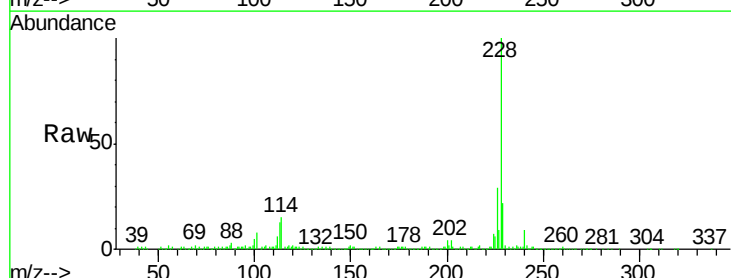
Instrument :
 BNA_F
 ClientSampleId :

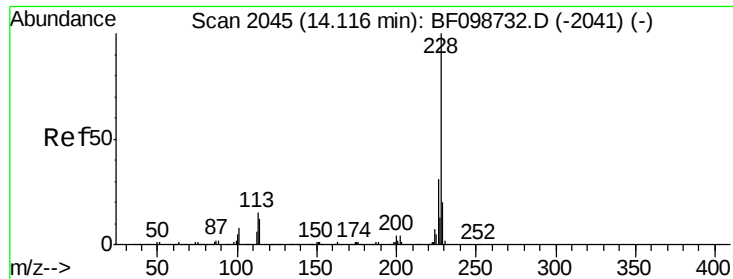
Tot Ion:244 Resp: 475489
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.4 8.0
 122 14.4 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 25.07 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. 0.01 min
 Lab File: BF099420.D
 Acq: 13 Oct 2017 3:01

Tgt Ion:228 Resp: 319959
 Ion Ratio Lower Upper
 228 100
 226 29.0 22.6 33.8
 229 21.5 15.8 23.6





#82

Chrysene

Concen: 22.91 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.00 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

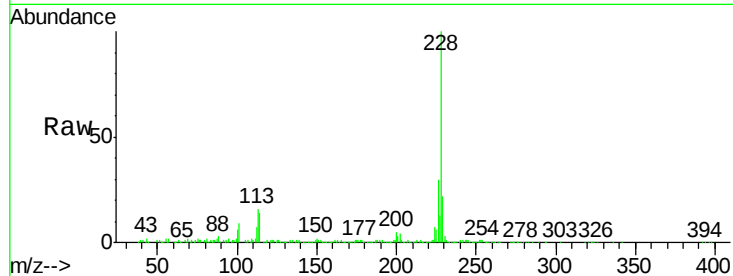
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 278373

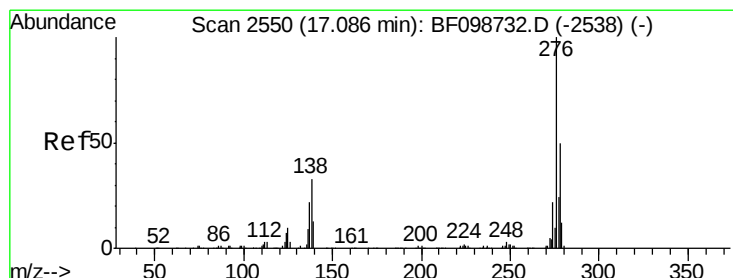
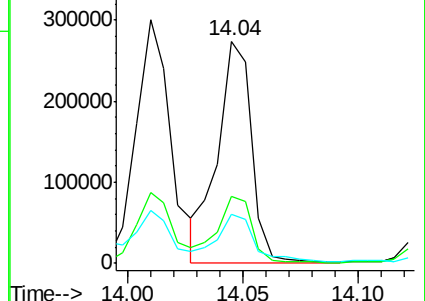
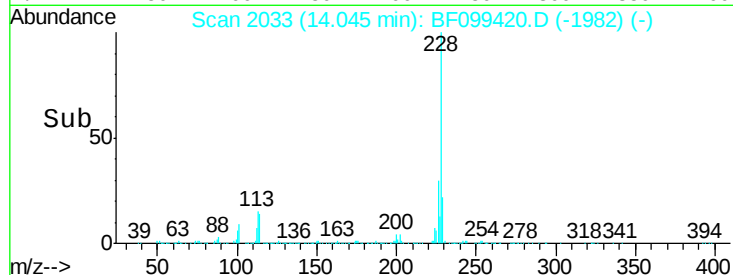
Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.6
229	22.2	16.2	24.4



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: 11.32 ng

RT: 16.98 min Scan# 2532

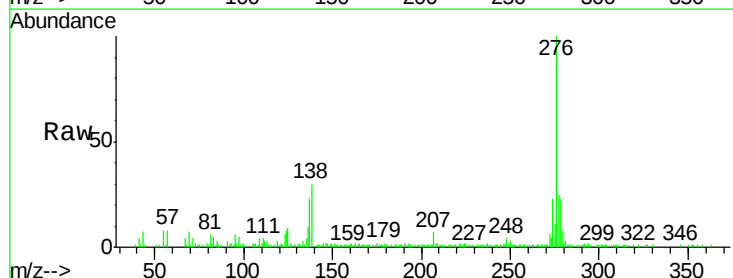
Delta R.T. 0.02 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

Tgt Ion:276 Resp: 110041

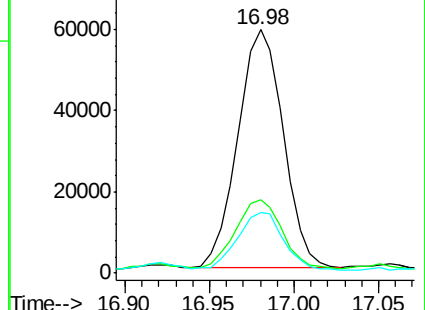
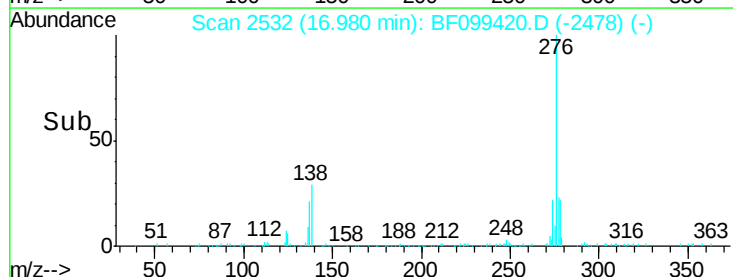
Ion	Ratio	Lower	Upper
276	100		
138	29.6	25.0	37.6
277	24.6	20.1	30.1

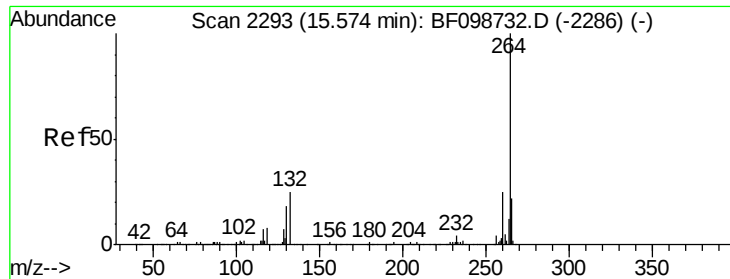


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

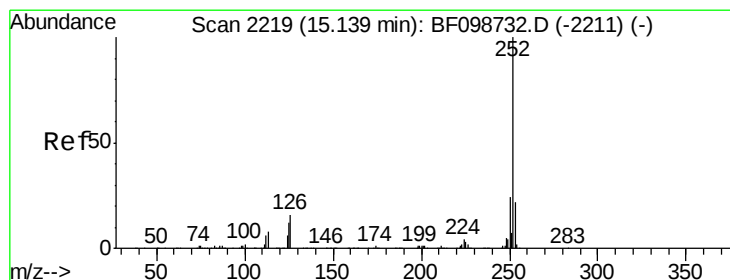
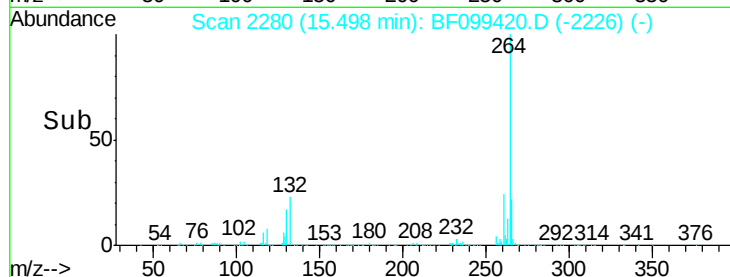
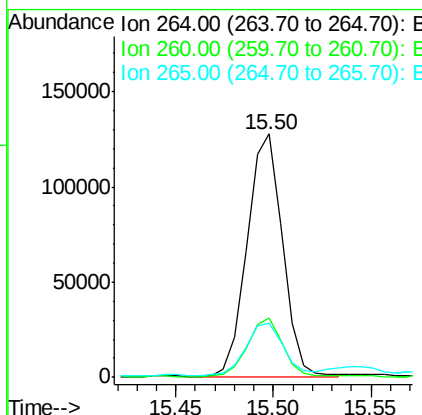
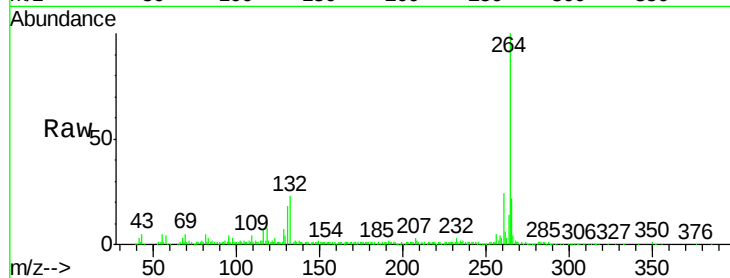




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.02 min
Lab File: BF099420.D
Acq: 13 Oct 2017 3:01

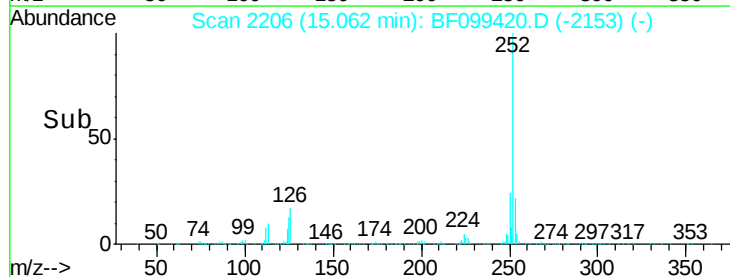
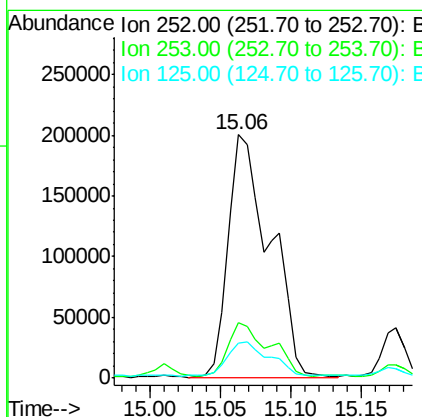
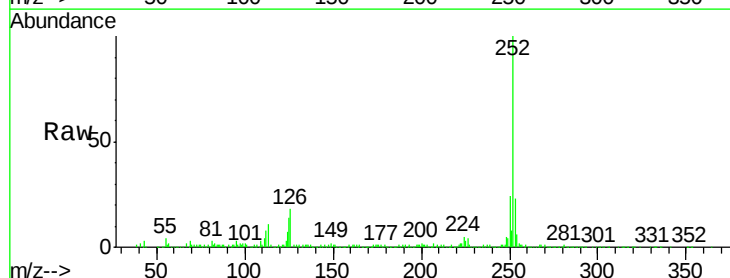
Instrument :
BNA_F
ClientSampleId :

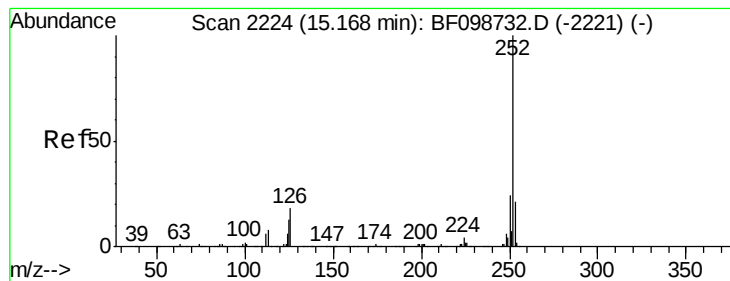
Tot Ion:264 Resp: 160533
Ion Ratio Lower Upper
264 100
260 24.4 19.2 28.8
265 22.3 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 41.79 ng
RT: 15.06 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF099420.D
Acq: 13 Oct 2017 3:01

Tgt Ion:252 Resp: 412477
Ion Ratio Lower Upper
252 100
253 23.0 17.0 25.6
125 14.3 9.0 13.6#





#88

Benzo(k)fluoranthene

Concen: 42.31 ng

RT: 15.06 min Scan# 2206

Delta R.T. -0.02 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

Instrument :

BNA_F

ClientSampleId :

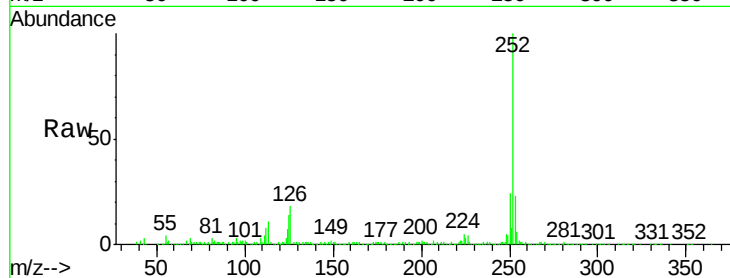
Tot Ion:252 Resp: 412477

Ion Ratio Lower Upper

252 100

253 23.0 17.9 26.9

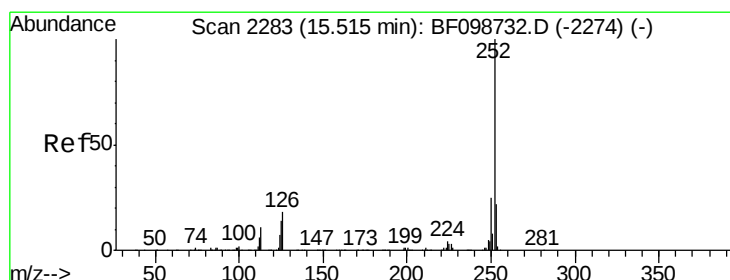
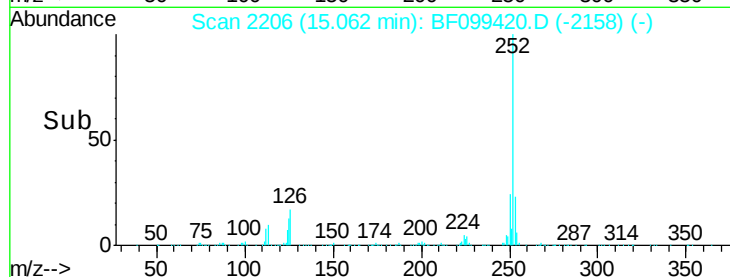
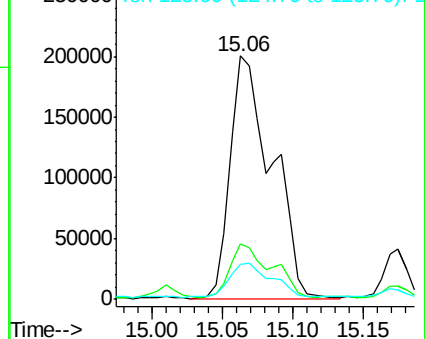
125 14.3 10.2 15.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 22.59 ng

RT: 15.43 min Scan# 2269

Delta R.T. 0.01 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

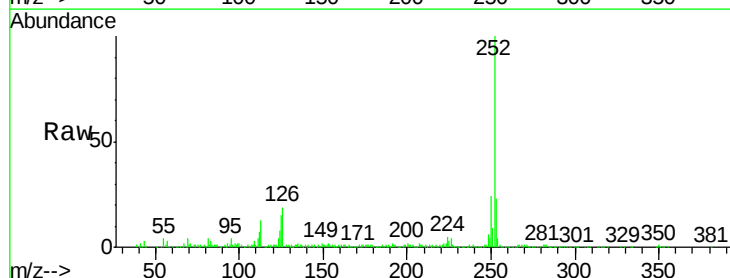
Tgt Ion:252 Resp: 204707

Ion Ratio Lower Upper

252 100

253 22.6 17.1 25.7

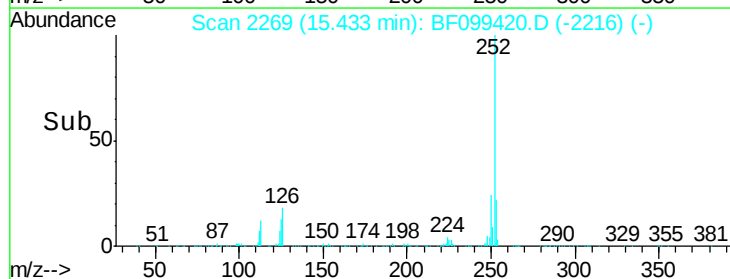
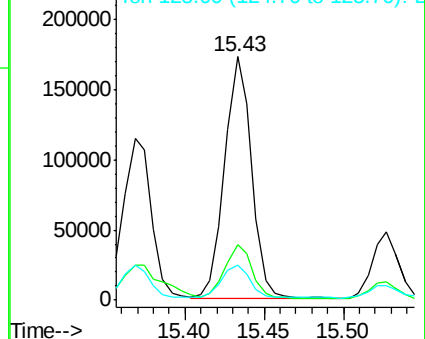
125 14.6 9.8 14.6

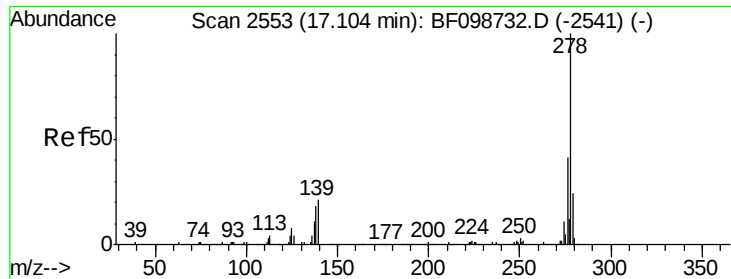


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 4.19 ng

RT: 16.99 min Scan# 2533

Delta R.T. 0.01 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

Instrument :

BNA_F

ClientSampleId :

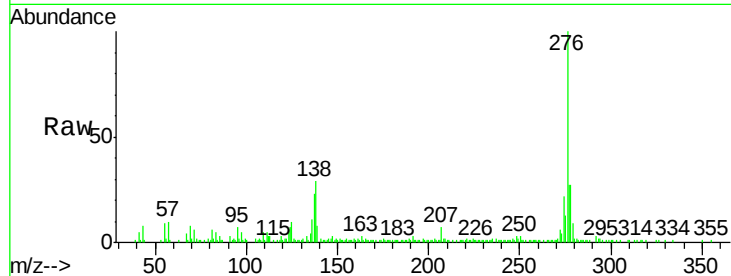
Tot Ion:278 Resp: 30347

Ion Ratio Lower Upper

278 100

139 28.1 15.9 23.9#

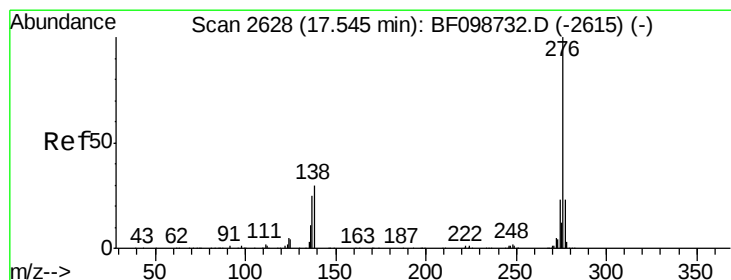
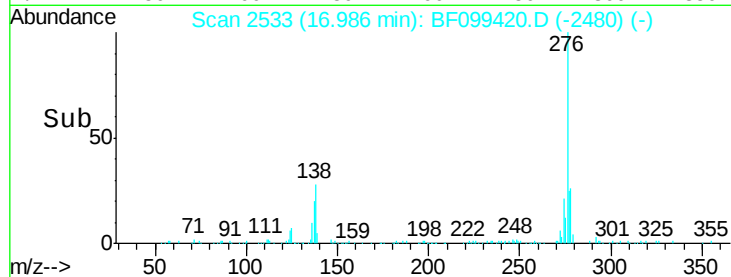
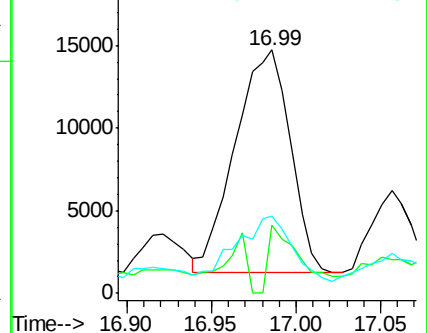
279 31.9 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 14.84 ng

RT: 17.43 min Scan# 2609

Delta R.T. 0.02 min

Lab File: BF099420.D

Acq: 13 Oct 2017 3:01

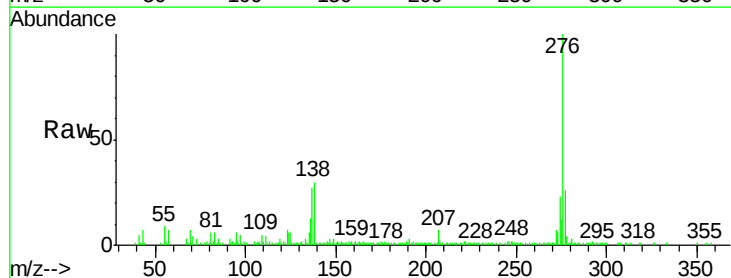
Tgt Ion:276 Resp: 106380

Ion Ratio Lower Upper

276 100

277 25.9 17.9 26.9

138 30.3 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

