

Data Path : Z:\HPCHEM1\BNA F\DATA\BF093017\
 Data File : BF098962.D
 Acq On : 30 Sep 2017 14:59
 Operator : SJ/JU
 Sample : I5509-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 30 23:25:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	128513	20.00	ng	0.00
21) Naphthalene-d8	8.19	136	532137	20.00	ng	-0.01
38) Acenaphthene-d10	9.95	164	238178	20.00	ng	-0.01
63) Phenanthrene-d10	11.44	188	370655	20.00	ng	0.00
75) Chrysene-d12	14.08	240	207700	20.00	ng	0.00
86) Perylene-d12	15.57	264	231477	20.00	ng	0.00

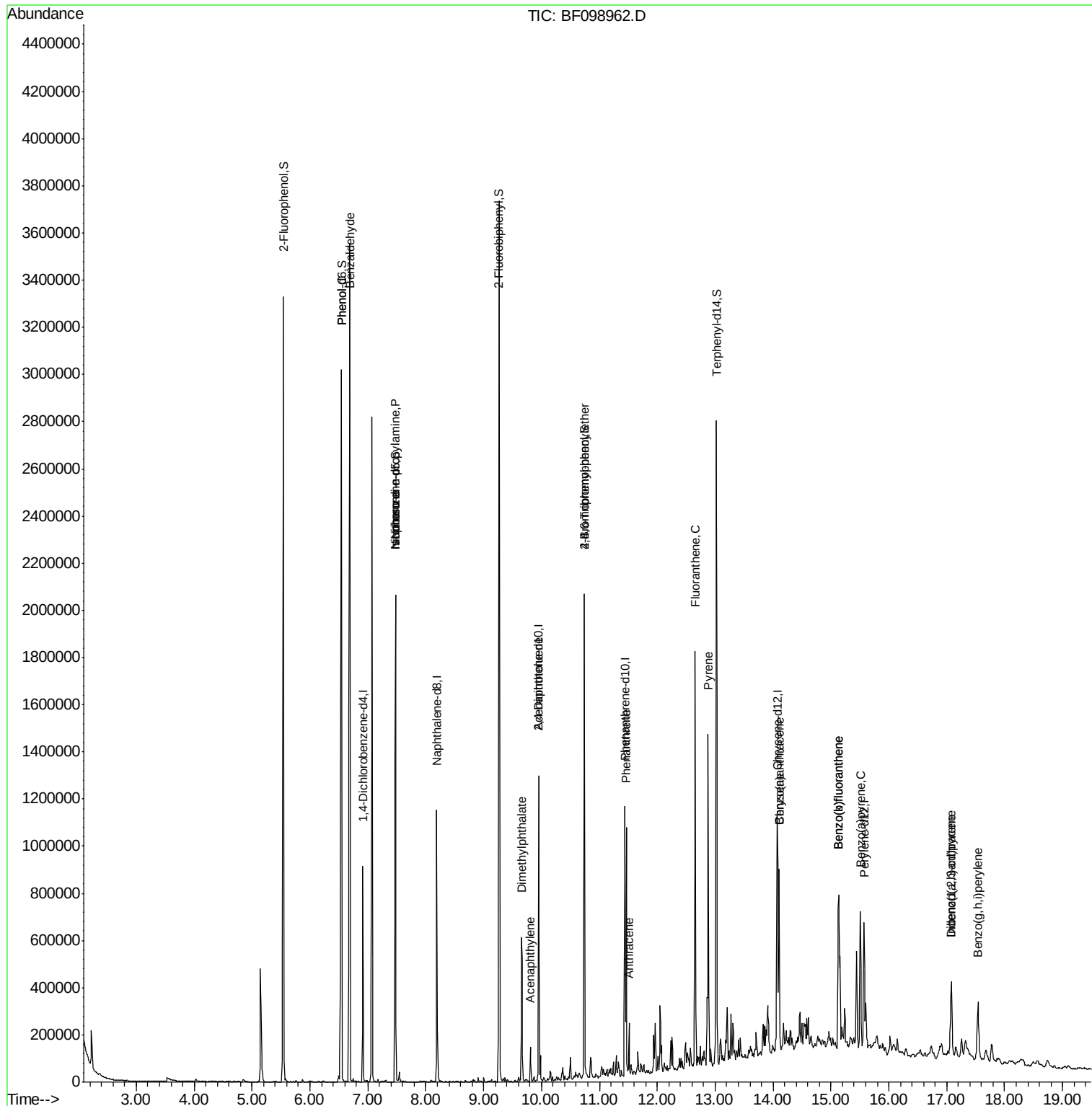
System Monitoring Compounds						
5) 2-Fluorophenol	5.54	112	1061508	131.49	ng	0.00
7) Phenol-d6	6.55	99	1296984	130.23	ng	0.00
23) Nitrobenzene-d5	7.47	82	802286	96.69	ng	-0.01
41) 2,4,6-Tribromophenol	10.74	330	239415	122.84	ng	-0.01
44) 2-Fluorobiphenyl	9.27	172	1282907	89.92	ng	-0.01
78) Terphenyl-d14	13.02	244	807695	88.44	ng	-0.01

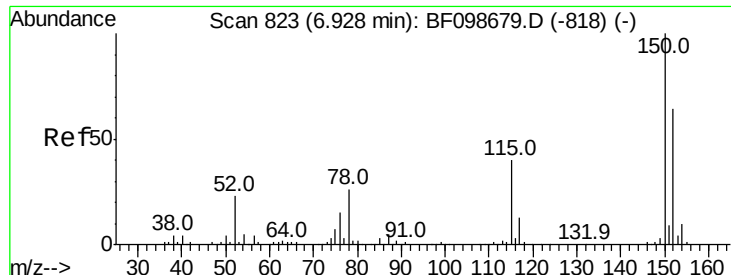
Target Compounds				Qvalue		
9) Benzaldehyde	6.69	77	22732	3.935	ng	85
10) Phenol	6.55	94	28983	2.602	ng	91
19) n-Nitroso-di-n-propylamine	7.47	70	107301	16.876	ng	# 78
25) Isophorone	7.47	82	802276	46.764	ng	# 64
48) Acenaphthylene	9.81	152	53061	2.255	ng	99
49) Dimethylphthalate	9.66	163	245562	13.660	ng	99
56) 2,4-Dinitrotoluene	9.95	165	31104	6.124	ng	# 23
66) 4-Bromophenyl-phenylether	10.74	248	16057	4.426	ng	# 1
70) Phenanthrene	11.46	178	349189	17.600	ng	99
71) Anthracene	11.51	178	75186	3.704	ng	99
74) Fluoranthene	12.65	202	666056	33.153	ng	99
77) Pyrene	12.88	202	580239	36.636	ng	100
80) Benzo(a)anthracene	14.10	228	271715	21.605	ng	97
82) Chrysene	14.10	228	271715	22.693	ng	98
85) Indeno(1,2,3-cd)pyrene	17.08	276	194198	20.275	ng	97
87) Benzo(b)fluoranthene	15.13	252	510666	35.881	ng	# 95
88) Benzo(k)fluoranthene	15.13	252	510666	36.328	ng	98
89) Benzo(a)pyrene	15.51	252	278749	21.337	ng	98
90) Dibenzo(a,h)anthracene	17.09	278	45978	4.398	ng	# 88
91) Benzo(a,h,i)perylene	17.54	276	186317	18.028	ng	94

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

```
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Sample    : I5509-01  
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ALS Vial  : 6      Sample Multiplier: 1
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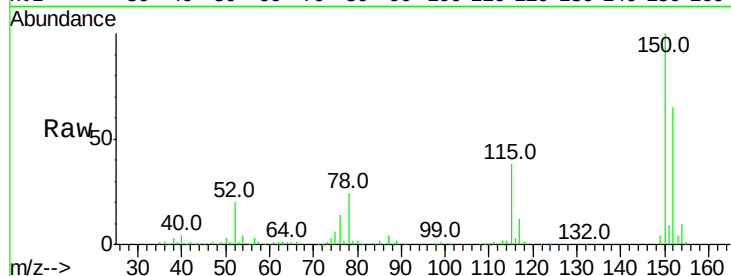


#1

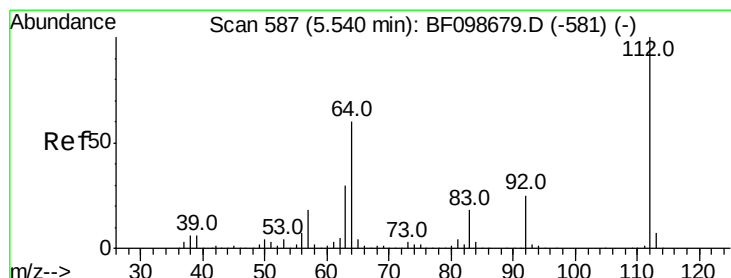
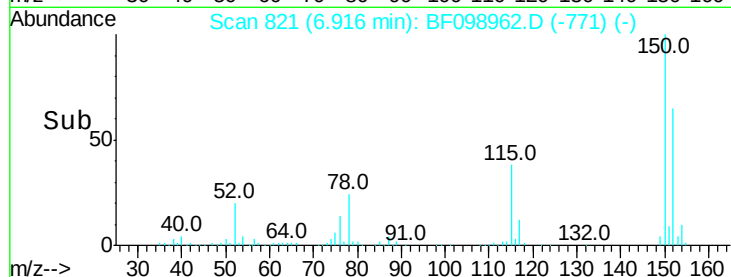
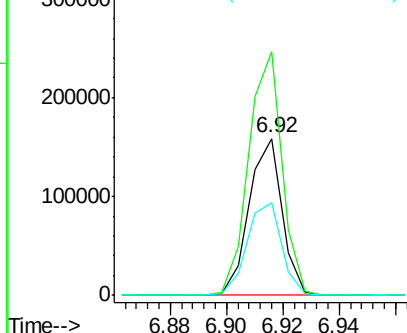
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF098962.D
Acq: 30 Sep 2017 14:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 128513
Ion Ratio Lower Upper
152 100
150 155.0 124.6 186.8
115 58.6 50.1 75.1



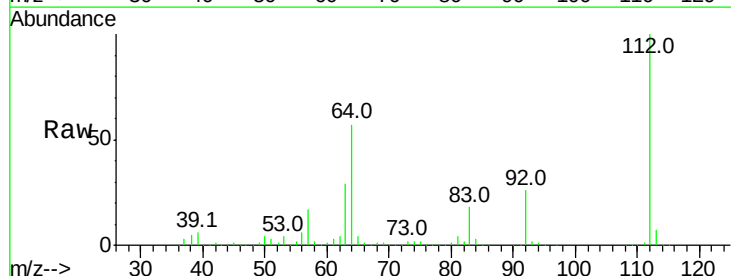
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



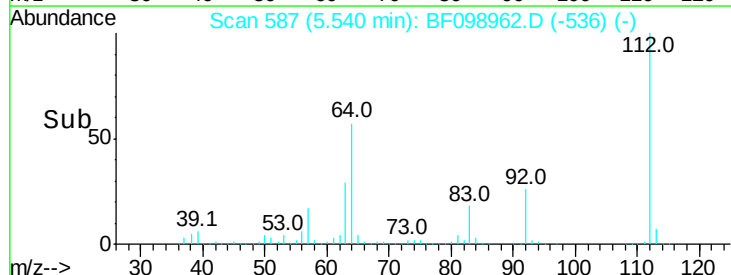
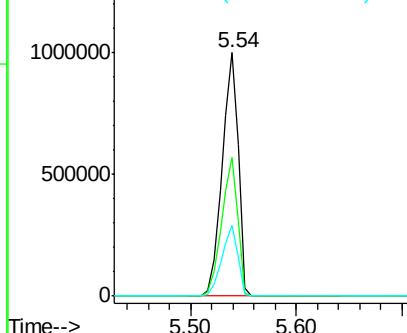
#5

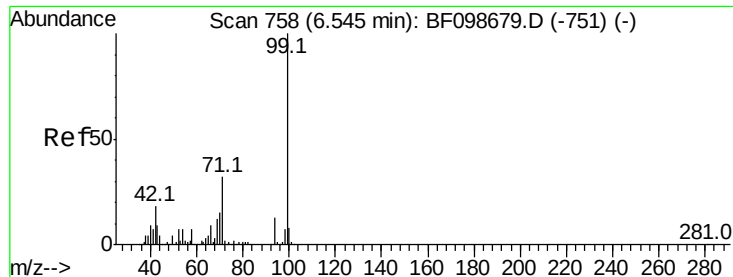
2-Fluorophenol
Concen: 131.490 ng
RT: 5.54 min Scan# 587
Delta R.T. 0.00 min
Lab File: BF098962.D
Acq: 30 Sep 2017 14:59

Tgt Ion:112 Resp: 1061508
Ion Ratio Lower Upper
112 100
64 56.9 47.9 71.9
63 29.2 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: 130.234 ng

RT: 6.55 min Scan# 758

Delta R.T. 0.00 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

Instrument :

BNA_F

ClientSampled :

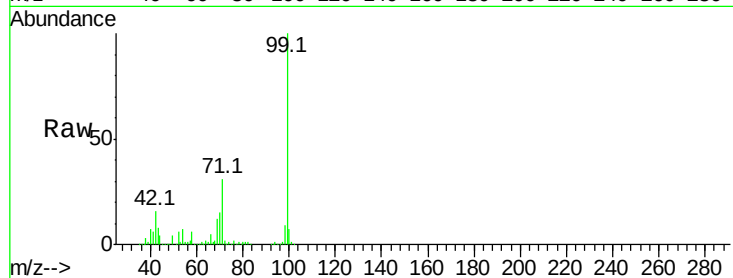
Tot Ion: 99 Resp: 1296984

Ion Ratio Lower Upper

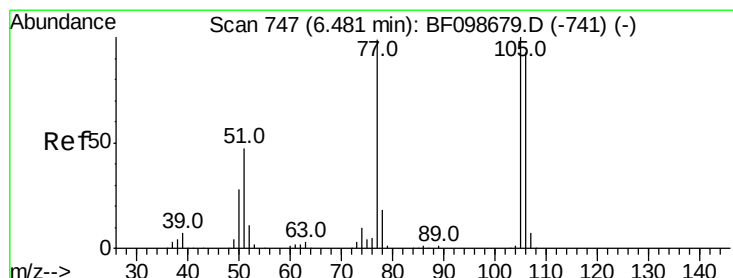
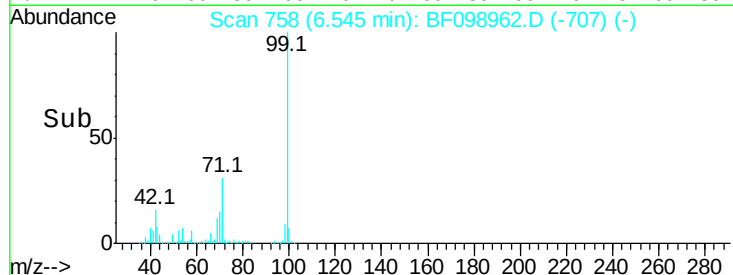
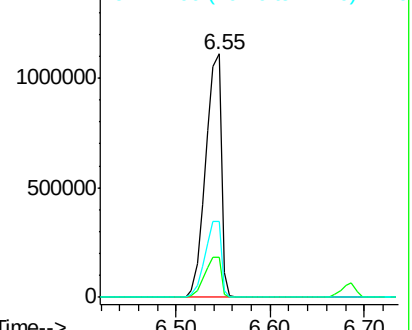
99 100

42 16.4 14.5 21.7

71 31.2 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: 3.935 ng

RT: 6.69 min Scan# 782

Delta R.T. 0.21 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

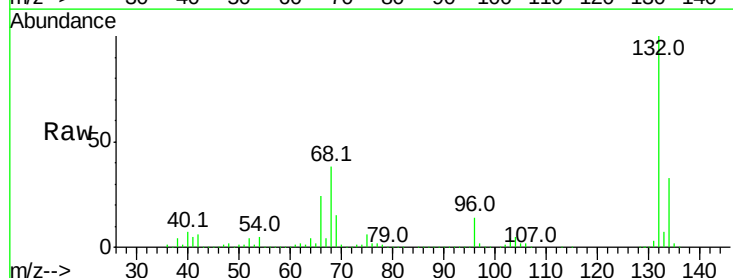
Tgt Ion: 77 Resp: 22732

Ion Ratio Lower Upper

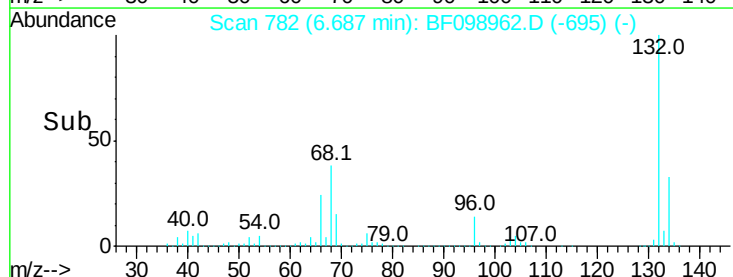
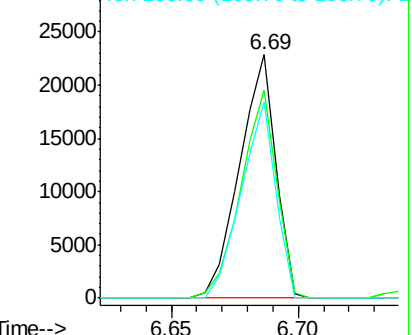
77 100

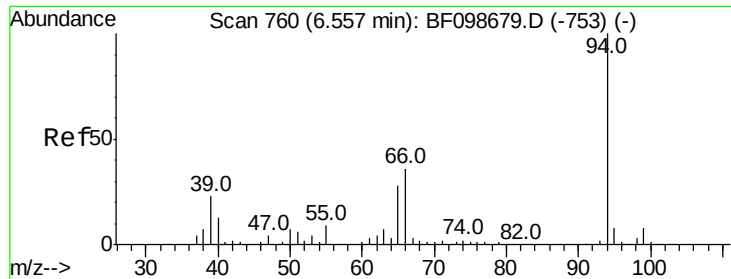
105 85.4 81.1 121.1

106 80.4 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF0
Ion 105.00 (104.70 to 105.70): BF0
Ion 106.00 (105.70 to 106.70): BF0





#10

Phenol

Concen: 2.602 ng

RT: 6.55 min Scan# 759

Delta R.T. -0.01 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

Instrument :

BNA_F

ClientSampleId :

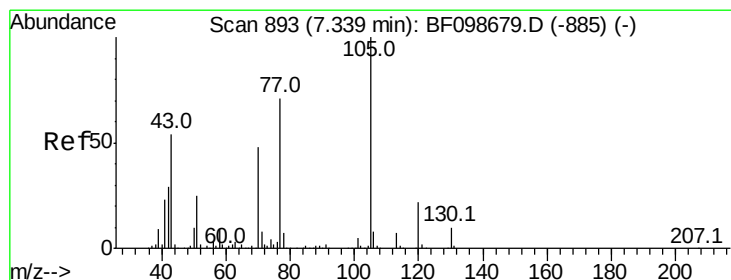
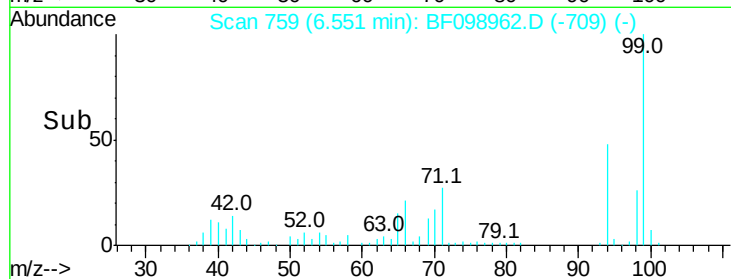
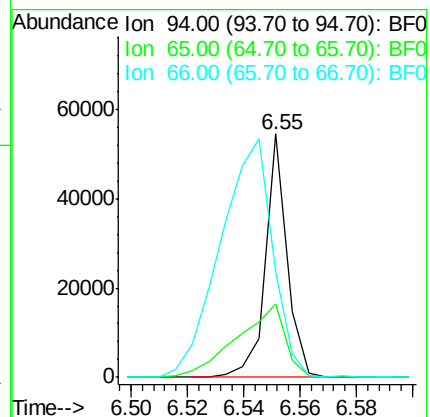
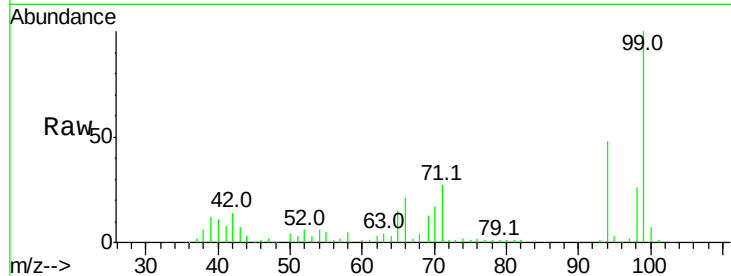
Tot Ion: 94 Resp: 28983

Ion Ratio Lower Upper

94 100

65 30.4 7.9 47.9

66 43.4 16.2 56.2



#19

n-Nitroso-di-n-propylamine

Concen: 16.876 ng

RT: 7.47 min Scan# 916

Delta R.T. 0.14 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

Tgt Ion: 70 Resp: 107301

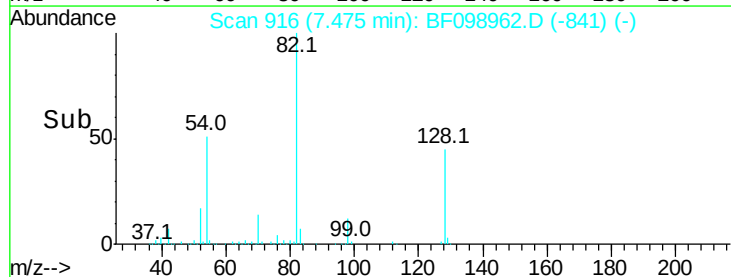
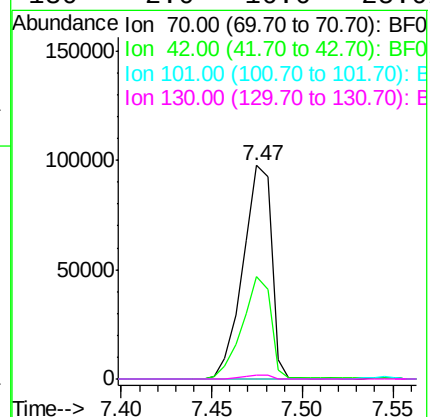
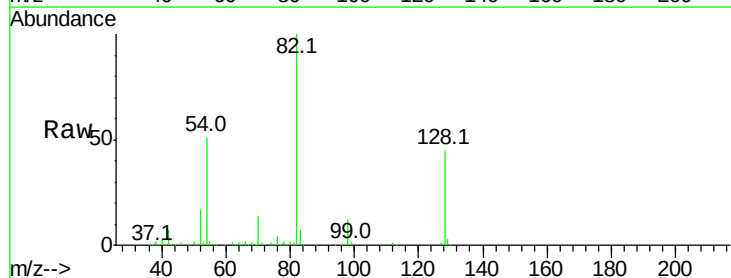
Ion Ratio Lower Upper

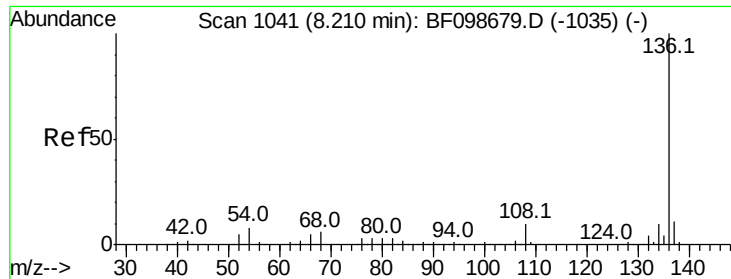
70 100

42 48.1 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#

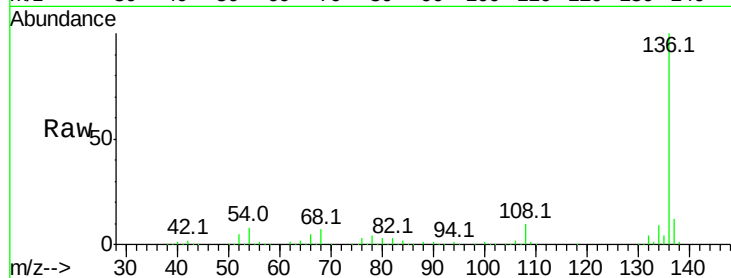




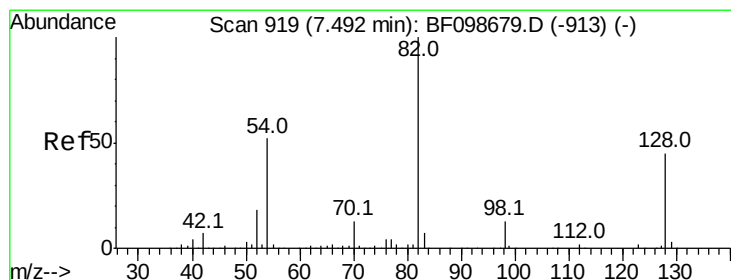
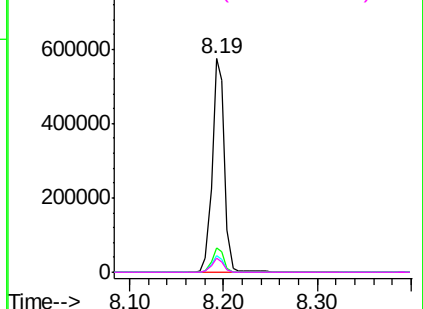
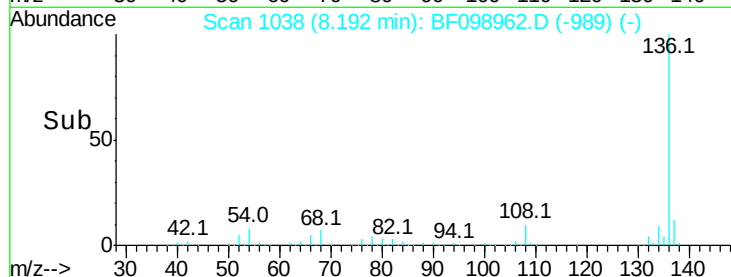
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.19 min Scan# 1038
Delta R.T. -0.01 min
Lab File: BF098962.D
Acq: 30 Sep 2017 14:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	532137
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	8.1	6.6	9.8
68	6.5	5.0	7.4

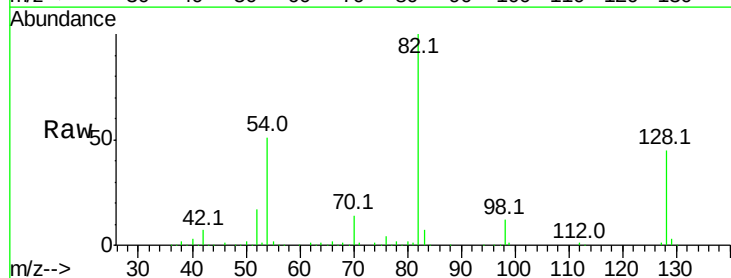


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

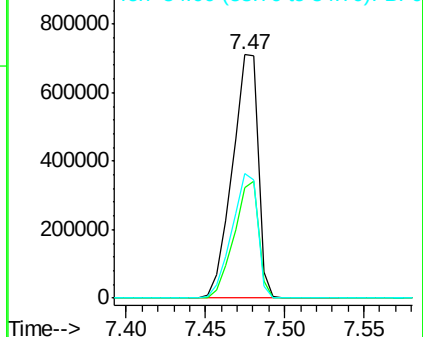
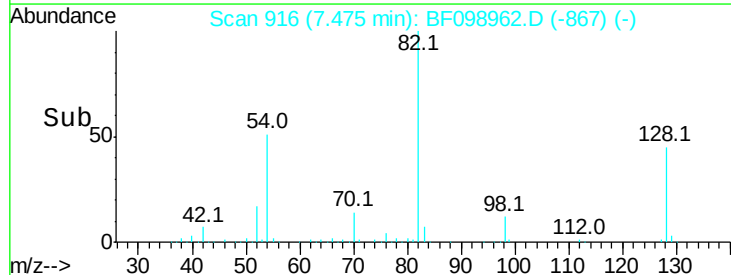


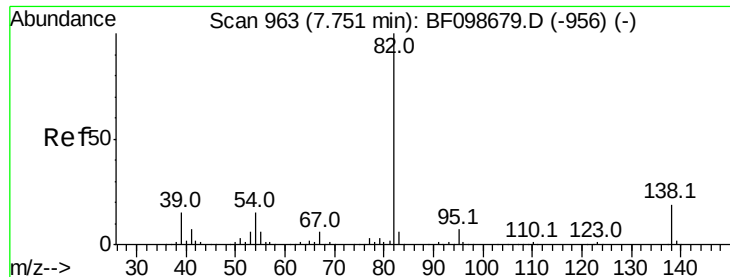
#23
Nitrobenzene-d5
Concen: 96.687 ng
RT: 7.47 min Scan# 916
Delta R.T. -0.01 min
Lab File: BF098962.D
Acq: 30 Sep 2017 14:59

Tgt Ion:	82	Resp:	802286
Ion	Ratio	Lower	Upper
82	100		
128	45.3	36.1	54.1
54	51.3	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: 46.764 ng

RT: 7.47 min Scan# 916

Delta R.T. -0.27 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

Instrument :

BNA_F

ClientSampleId :

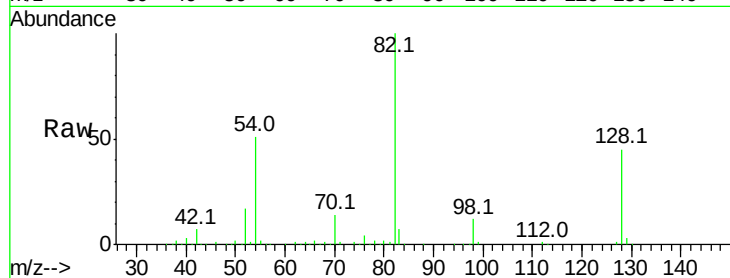
Tot Ion: 82 Resp: 802276

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

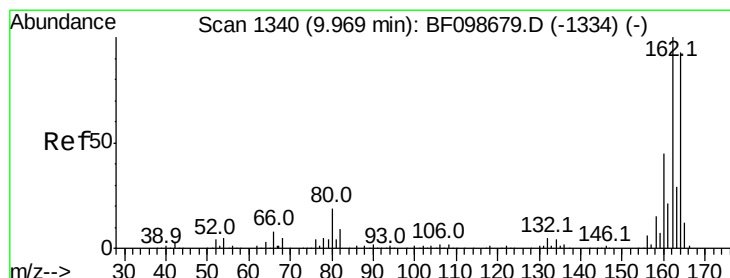
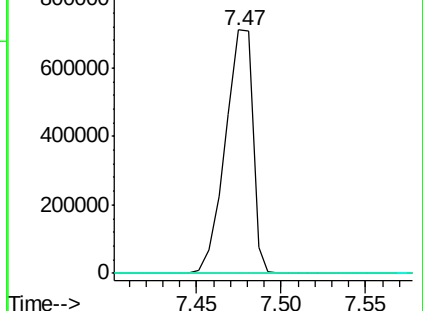
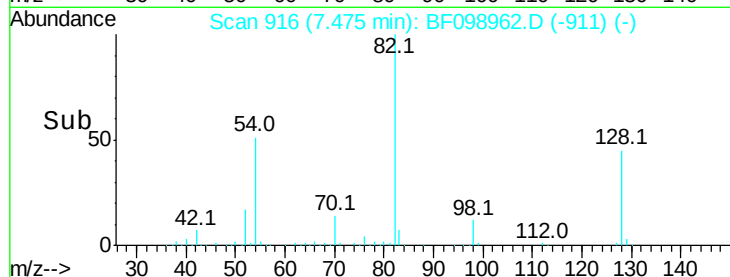
138 0.0 14.9 22.3#



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): BF0



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

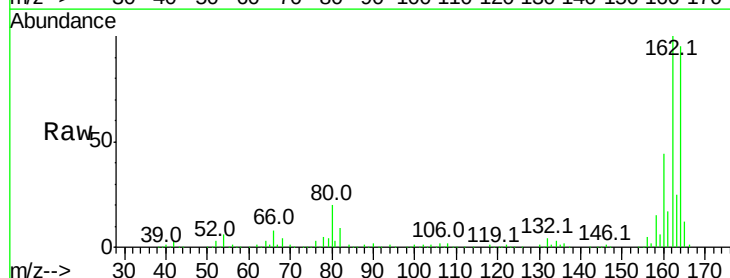
Tgt Ion: 164 Resp: 238178

Ion Ratio Lower Upper

164 100

162 104.8 86.1 129.1

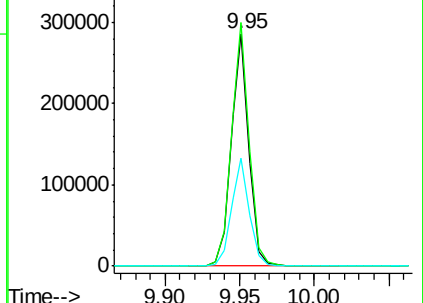
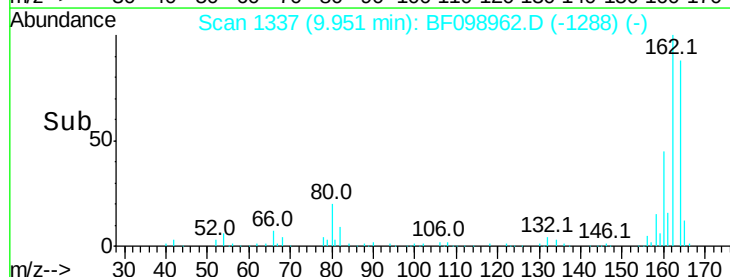
160 46.6 38.3 57.5

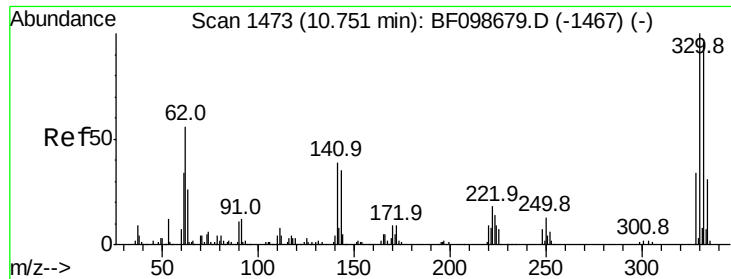


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

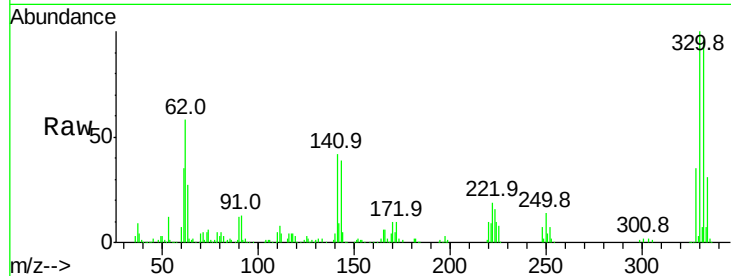




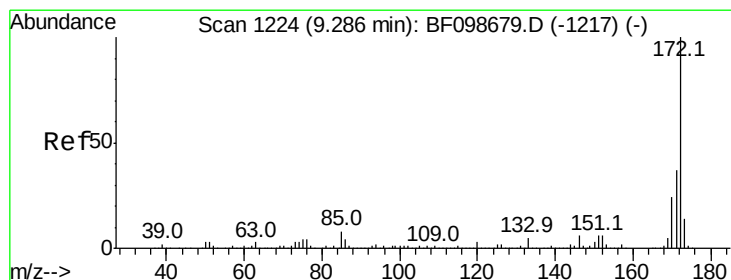
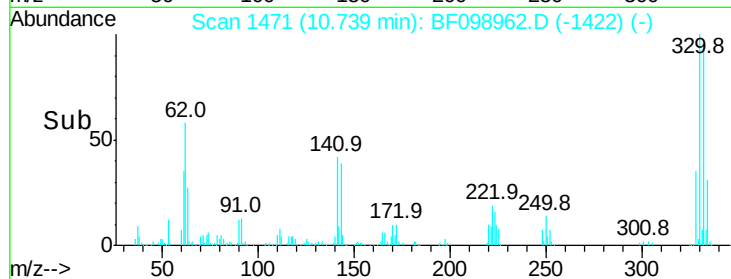
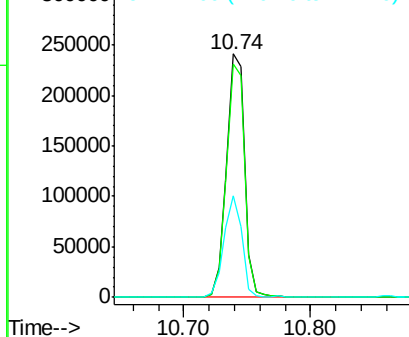
#41
 2,4,6-Tribromophenol
 Concen: 122.844 ng
 RT: 10.74 min Scan# 1471
 Delta R.T. -0.01 min
 Lab File: BF098962.D
 Acq: 30 Sep 2017 14:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.0	115.6
141	42.1	29.9	44.9

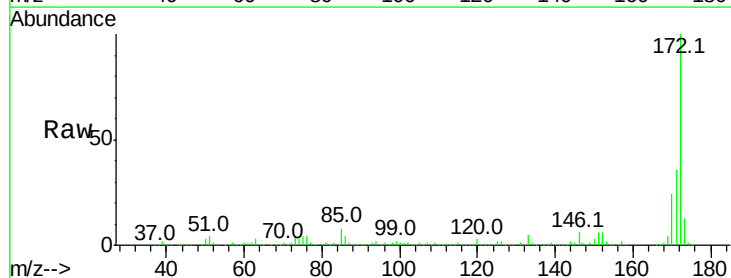


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

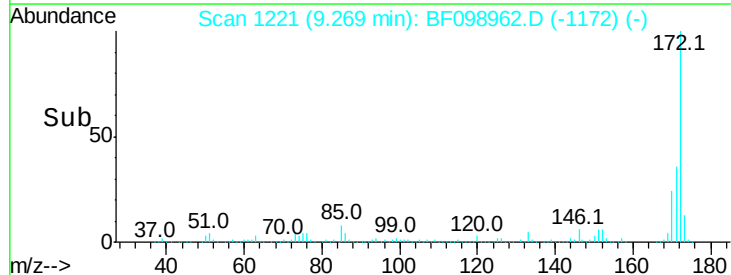
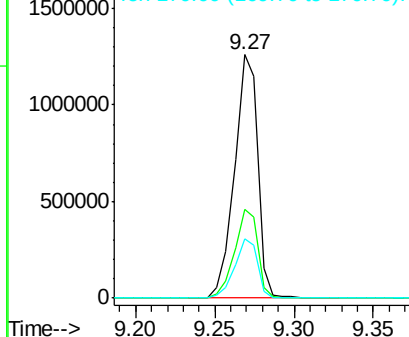


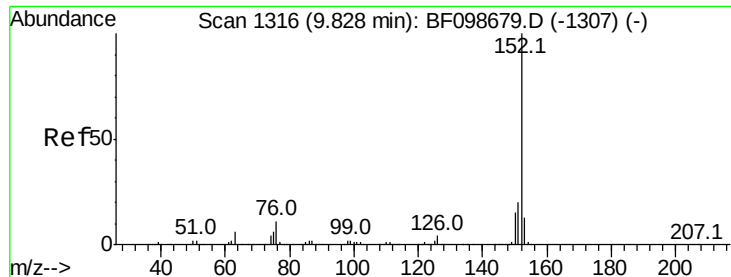
#44
 2-Fluorobiphenyl
 Concen: 89.920 ng
 RT: 9.27 min Scan# 1221
 Delta R.T. -0.01 min
 Lab File: BF098962.D
 Acq: 30 Sep 2017 14:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.7	44.5
170	24.2	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





#48

Acenaphthylene

Concen: 2.255 ng

RT: 9.81 min Scan# 1313

Delta R.T. -0.02 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

Instrument :

BNA_F

ClientSampleId :

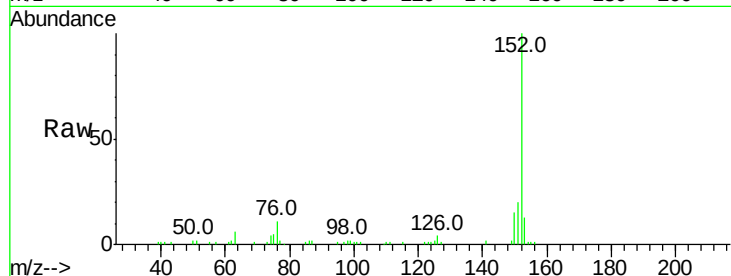
Tot Ion:152 Resp: 53061

Ion Ratio Lower Upper

152 100

151 20.1 16.3 24.5

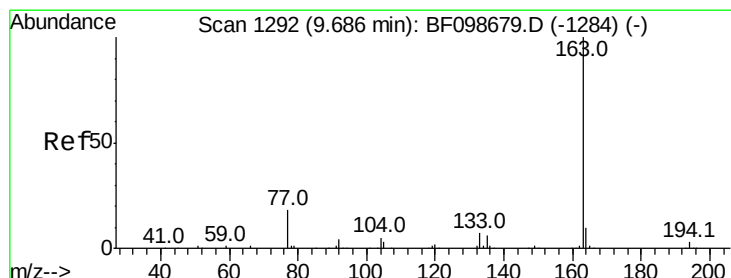
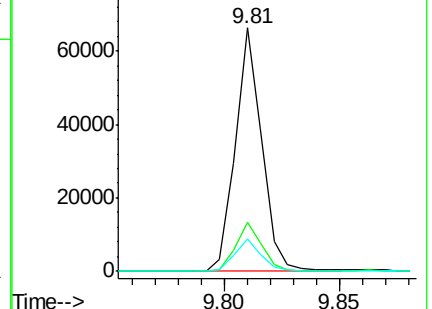
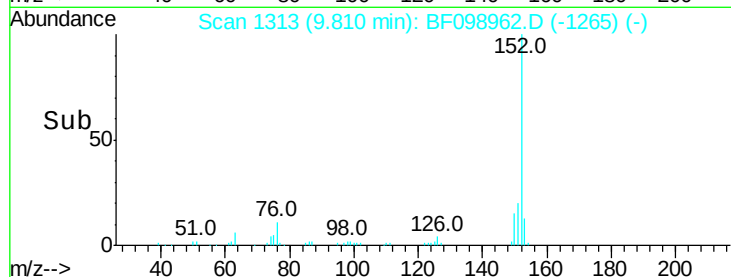
153 13.3 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 13.660 ng

RT: 9.66 min Scan# 1287

Delta R.T. -0.02 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

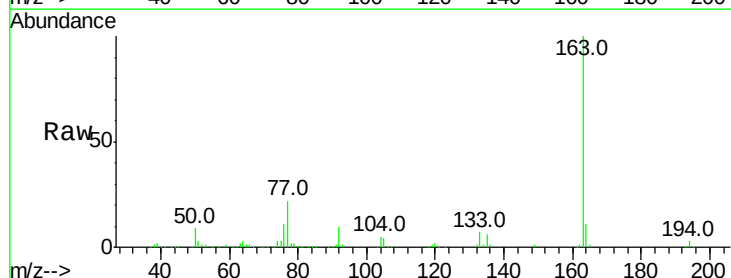
Tgt Ion:163 Resp: 245562

Ion Ratio Lower Upper

163 100

194 3.3 2.7 4.1

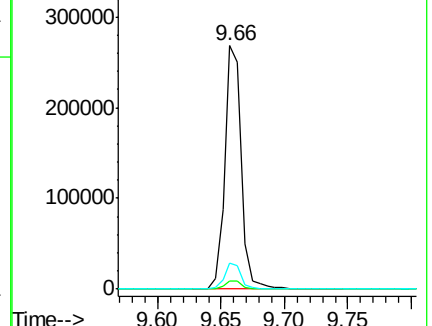
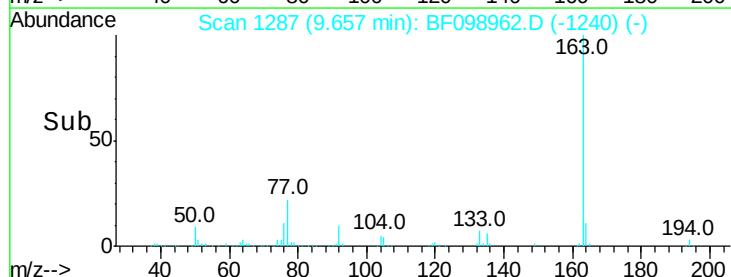
164 10.6 8.2 12.2

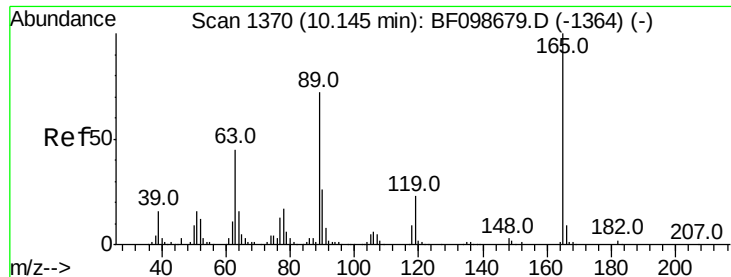


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

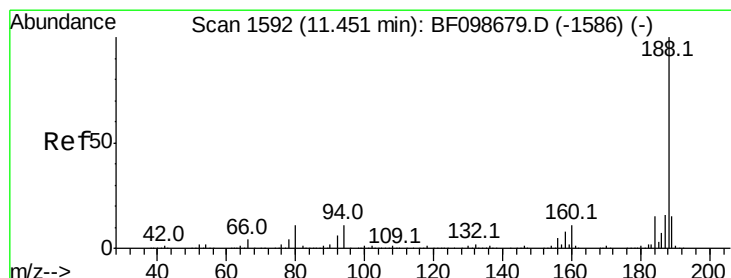
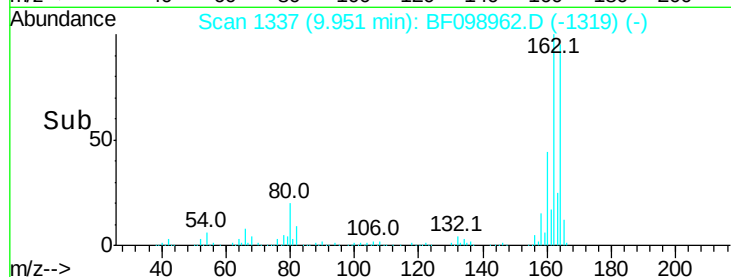
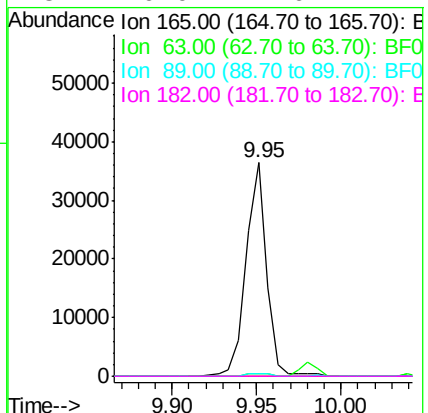
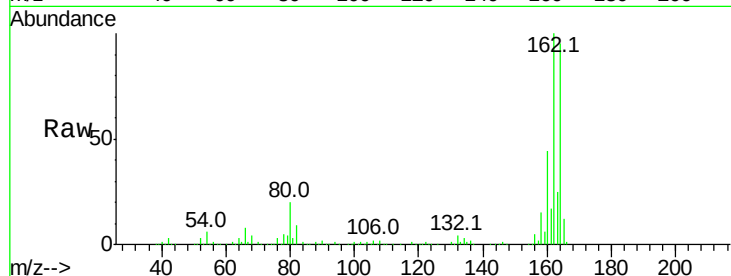




#56
 2,4-Dinitrotoluene
 Concen: 6.124 ng
 RT: 9.95 min Scan# 1337
 Delta R.T. -0.19 min
 Lab File: BF098962.D
 Acq: 30 Sep 2017 14:59

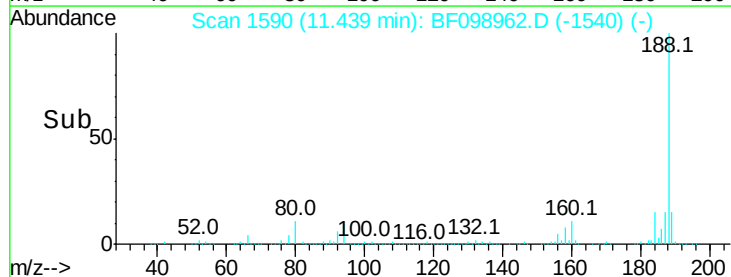
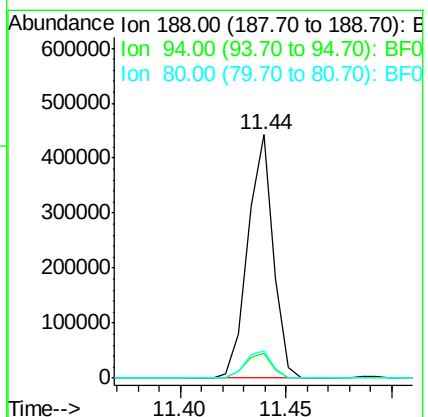
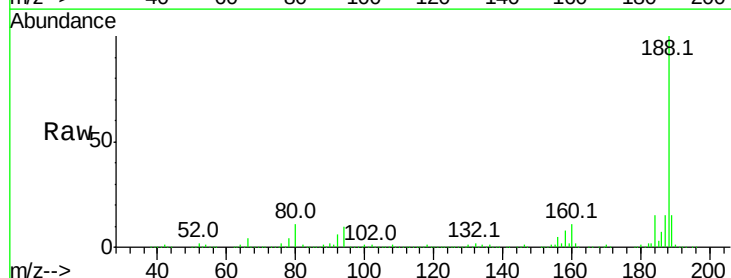
Instrument :
 BNA_F
 ClientSampled :

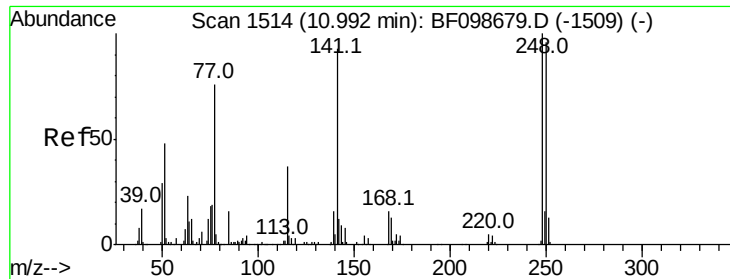
Tot Ion:165 Resp: 31104
 Ion Ratio Lower Upper
 165 100
 63 1.1 36.4 54.6#
 89 1.1 57.8 86.6#
 182 0.0 1.6 2.4#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.44 min Scan# 1590
 Delta R.T. -0.01 min
 Lab File: BF098962.D
 Acq: 30 Sep 2017 14:59

Tgt Ion:188 Resp: 370655
 Ion Ratio Lower Upper
 188 100
 94 10.1 8.5 12.7
 80 11.1 9.2 13.8

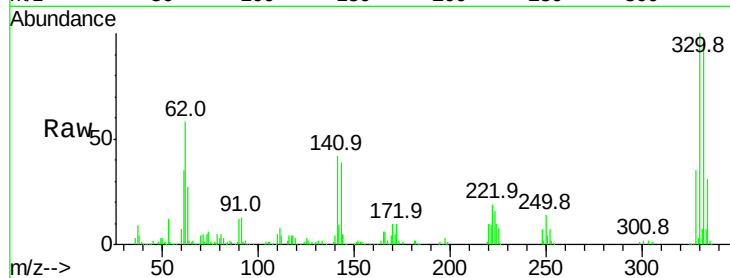




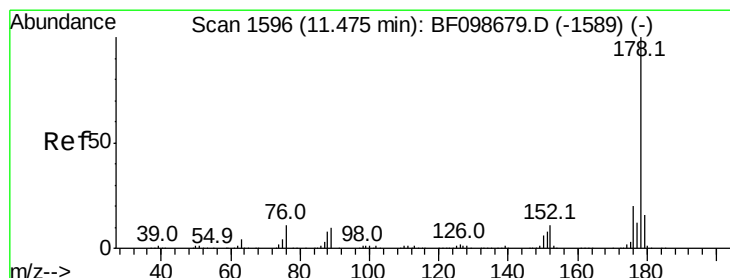
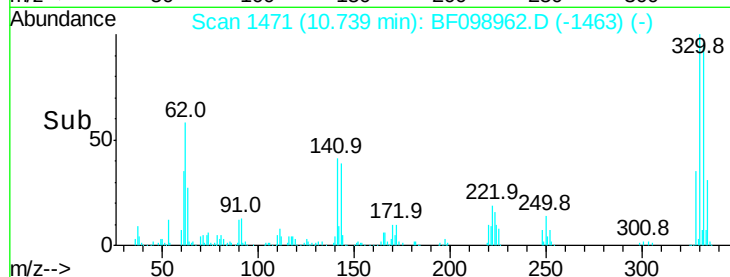
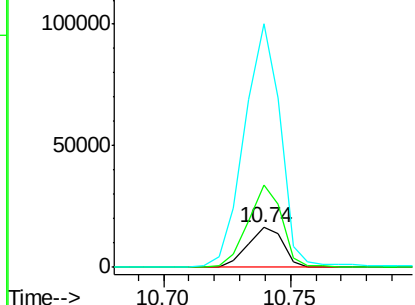
#66
 4-Bromophenyl-phenylether
 Concen: 4.426 ng
 RT: 10.74 min Scan# 1471
 Delta R.T. -0.25 min
 Lab File: BF098962.D
 Acq: 30 Sep 2017 14:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 16057
 Ion Ratio Lower Upper
 248 100
 250 206.6 76.9 115.3#
 141 609.1 74.4 111.6#

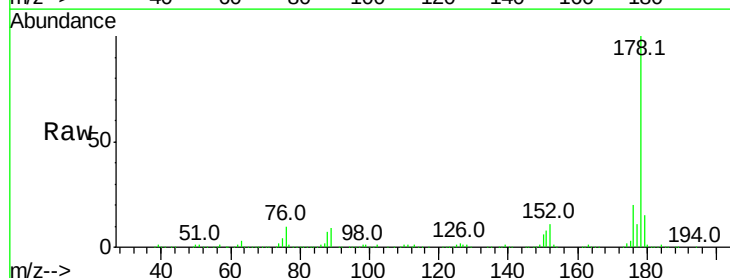


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

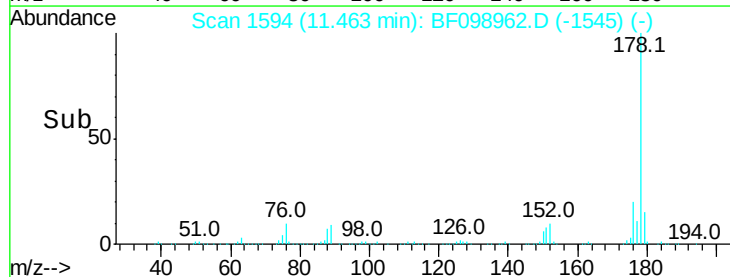
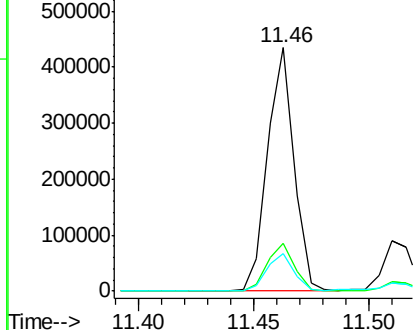


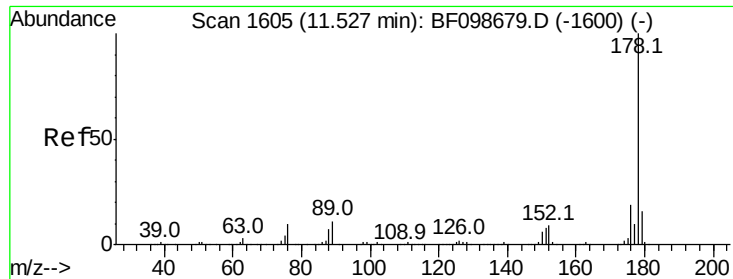
#70
 Phenanthrene
 Concen: 17.600 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BF098962.D
 Acq: 30 Sep 2017 14:59

Tgt Ion:178 Resp: 349189
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.8 23.8
 179 15.4 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

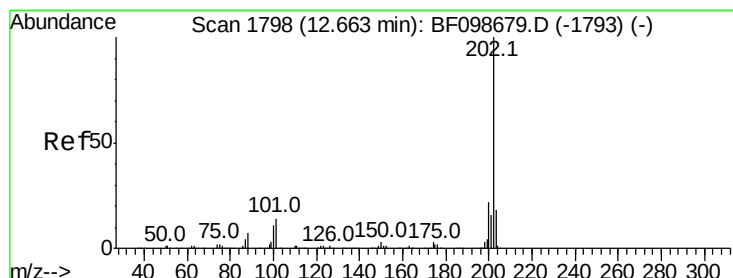
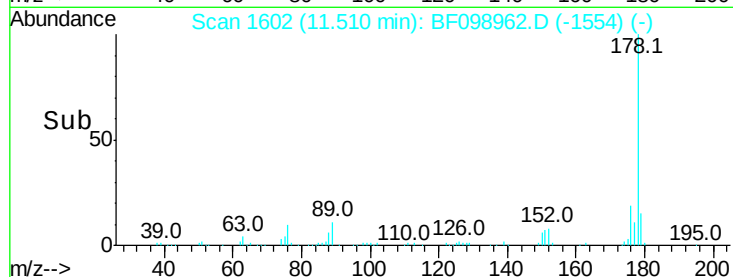
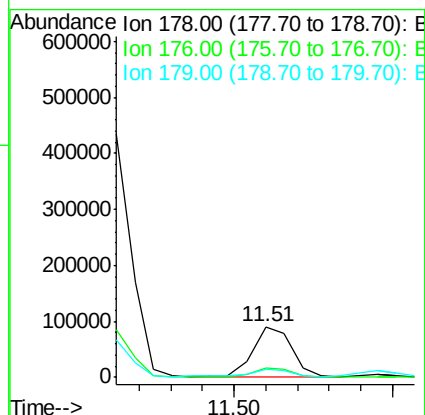
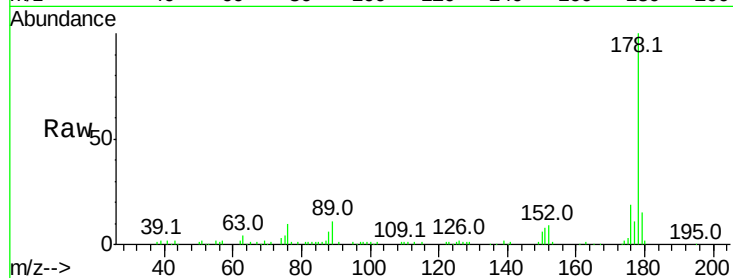




#71
 Anthracene
 Concen: 3.704 ng
 RT: 11.51 min Scan# 1602
 Delta R.T. -0.02 min
 Lab File: BF098962.D
 Acq: 30 Sep 2017 14:59

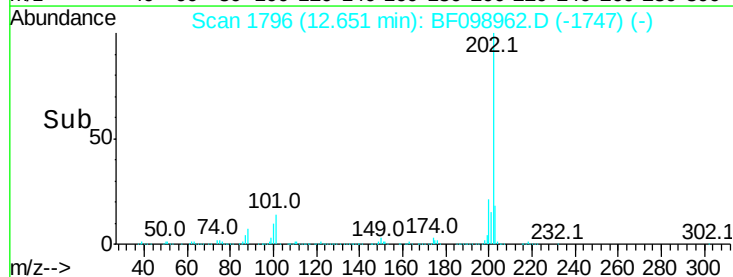
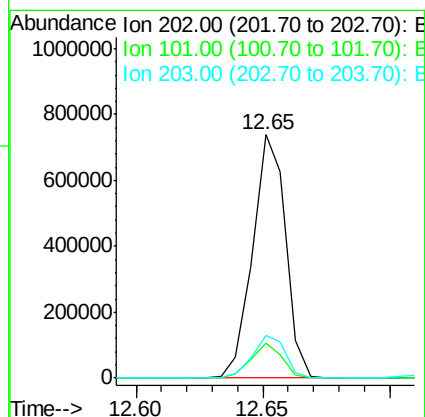
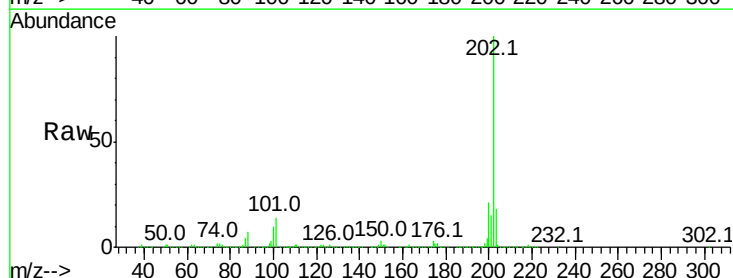
Instrument :
 BNA_F
 ClientSampled :

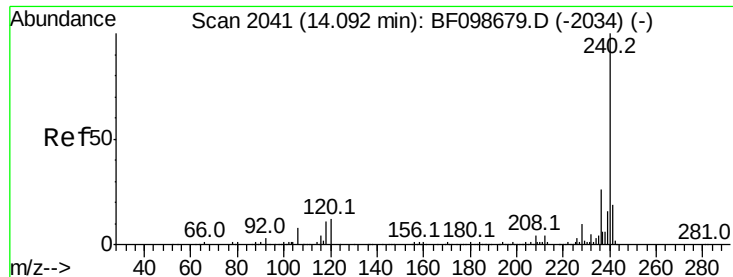
Tot Ion:178 Resp: 75186
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.4 23.2
 179 15.2 12.6 19.0



#74
 Fluoranthene
 Concen: 33.153 ng
 RT: 12.65 min Scan# 1796
 Delta R.T. -0.01 min
 Lab File: BF098962.D
 Acq: 30 Sep 2017 14:59

Tgt Ion:202 Resp: 666056
 Ion Ratio Lower Upper
 202 100
 101 14.3 0.0 34.1
 203 17.6 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

Instrument :

BNA_F

ClientSampleId :

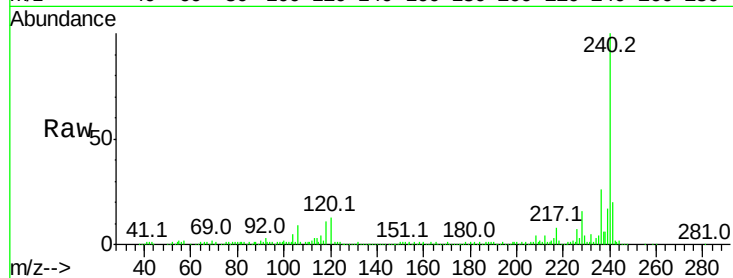
Tot Ion:240 Resp: 207700

Ion Ratio Lower Upper

240 100

120 12.8 9.5 14.3

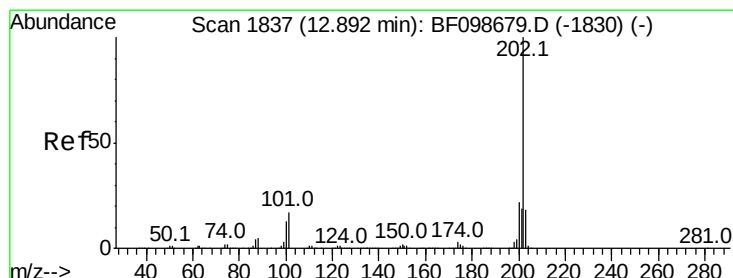
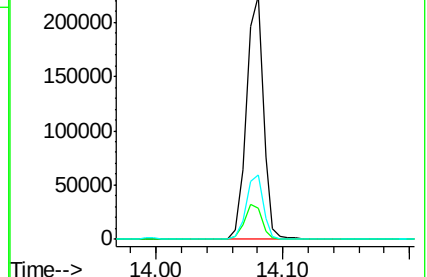
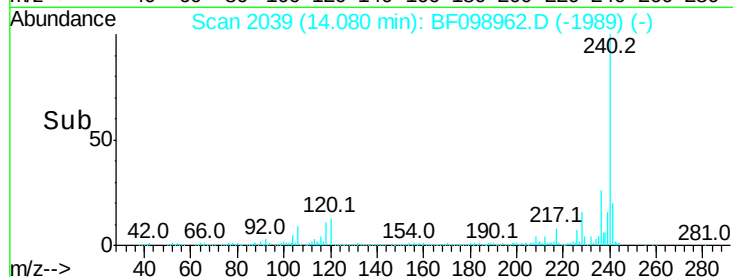
236 26.5 20.7 31.1



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: 36.636 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

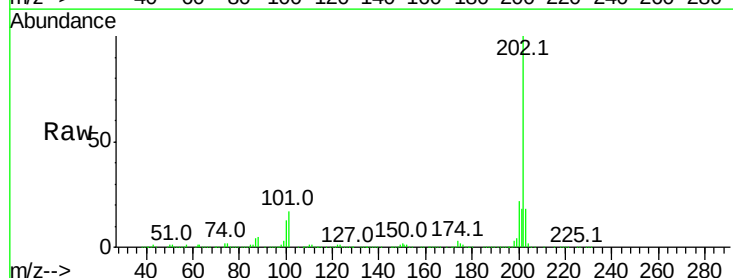
Tgt Ion:202 Resp: 580239

Ion Ratio Lower Upper

202 100

200 21.9 17.4 26.2

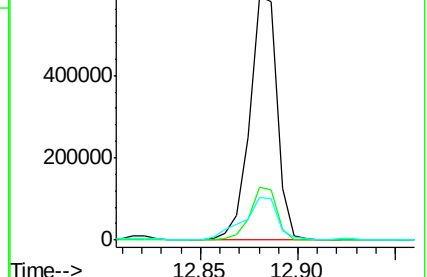
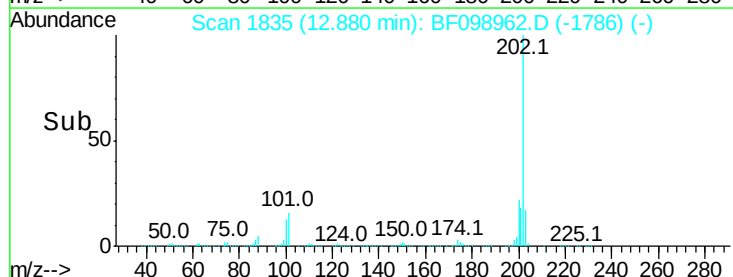
203 17.6 14.3 21.5

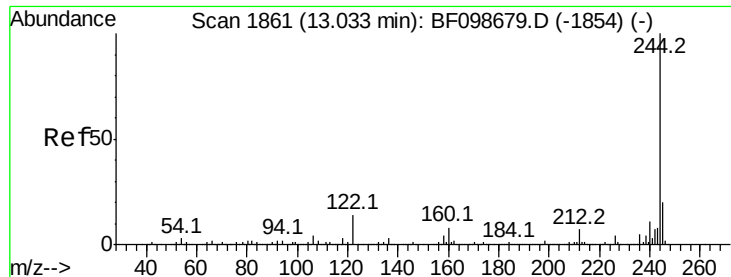


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 88.438 ng

RT: 13.02 min Scan# 1859

Delta R.T. -0.01 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

Instrument :

BNA_F

ClientSampleId :

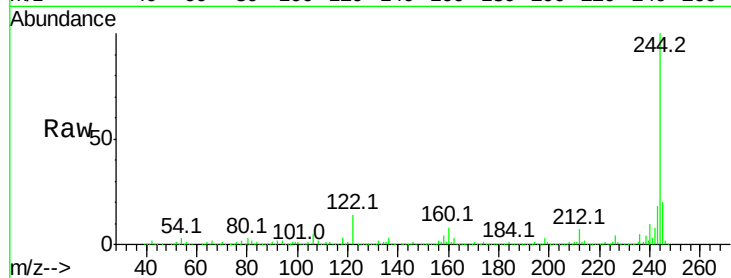
Tot Ion:244 Resp: 807695

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.0

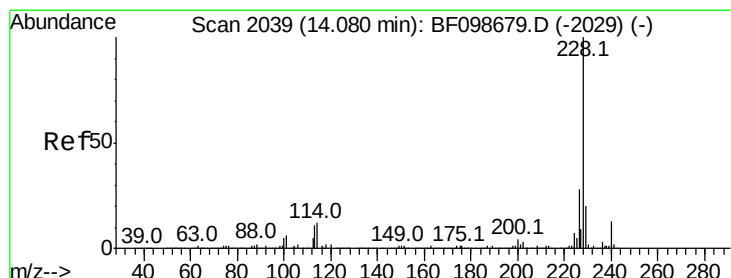
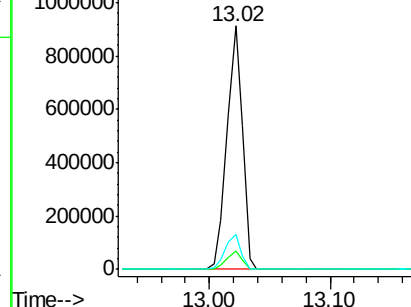
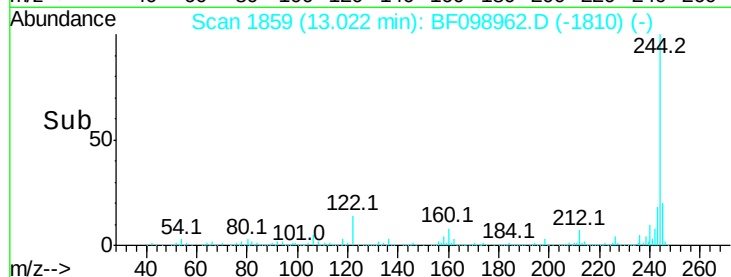
122 14.2 11.0 16.4



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: 21.605 ng

RT: 14.10 min Scan# 2043

Delta R.T. 0.03 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

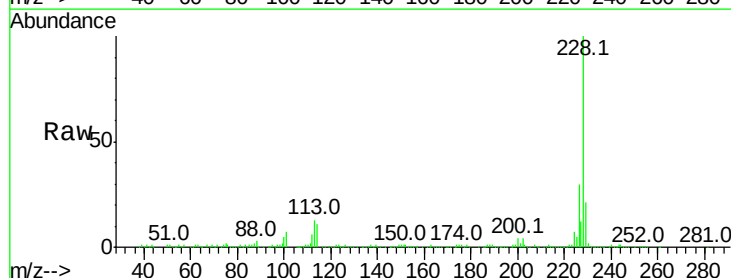
Tgt Ion:228 Resp: 271715

Ion Ratio Lower Upper

228 100

226 29.7 22.6 33.8

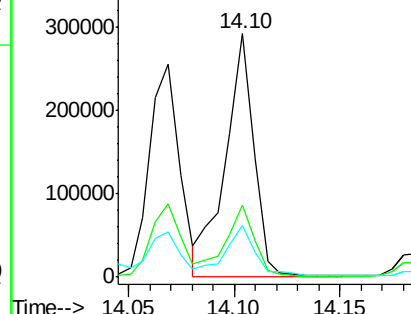
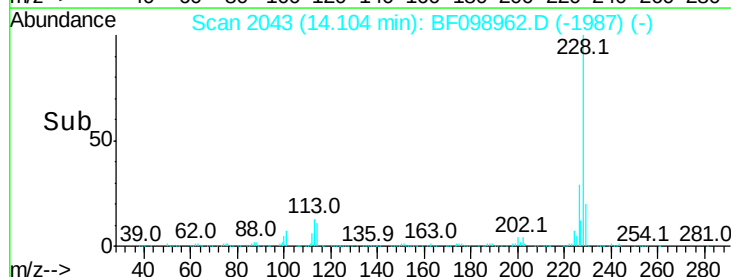
229 21.1 15.8 23.6

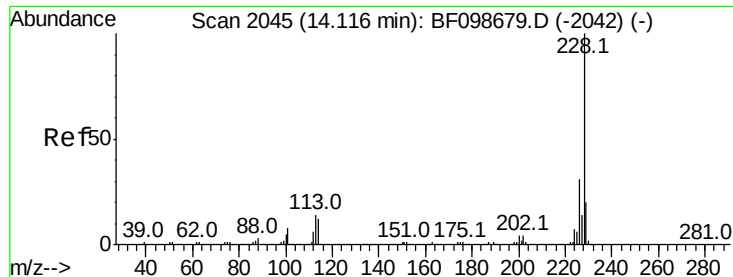


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 22.693 ng

RT: 14.10 min Scan# 2043

Delta R.T. -0.01 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

Instrument :

BNA_F

ClientSampleId :

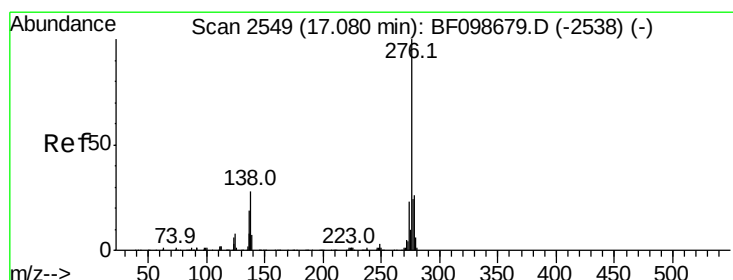
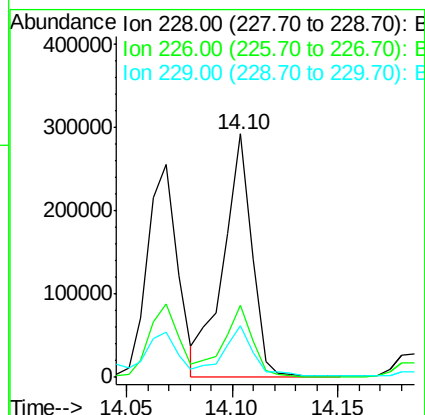
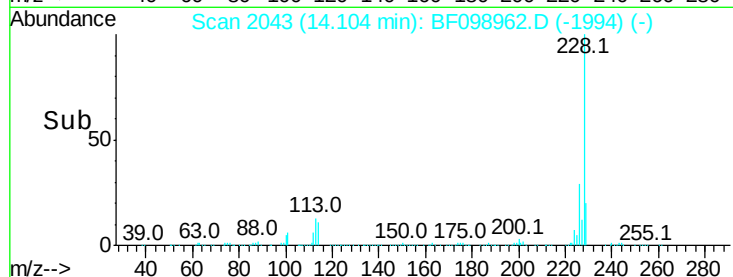
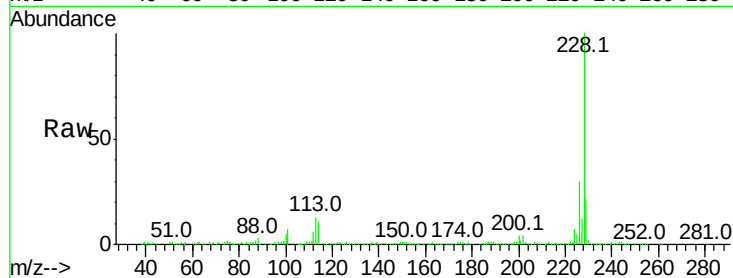
Tot Ion:228 Resp: 271715

Ion Ratio Lower Upper

228 100

226 29.7 25.0 37.6

229 21.1 16.2 24.4



#85

Indeno(1,2,3-cd)pyrene

Concen: 20.275 ng

RT: 17.08 min Scan# 2549

Delta R.T. -0.01 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

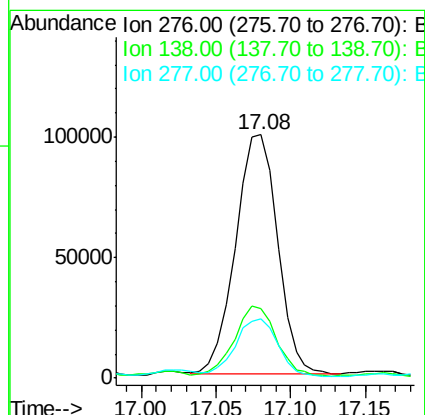
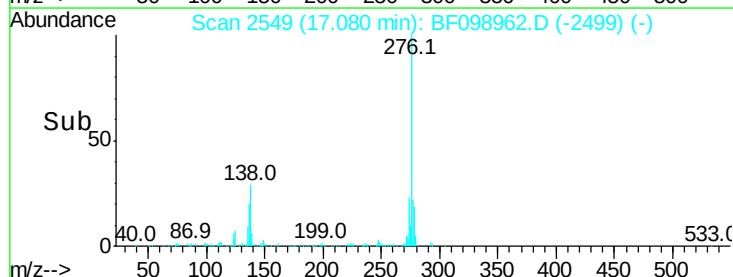
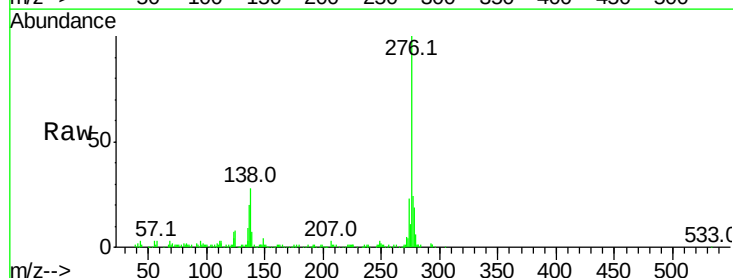
Tgt Ion:276 Resp: 194198

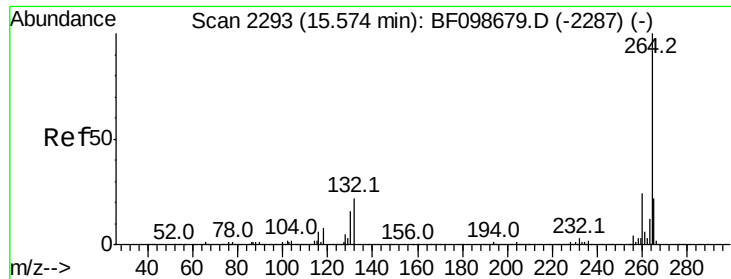
Ion Ratio Lower Upper

276 100

138 29.3 25.0 37.6

277 24.5 20.1 30.1

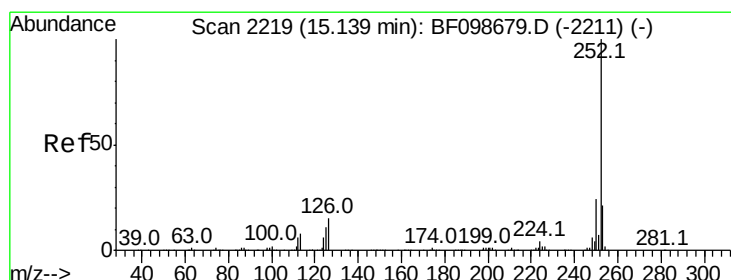
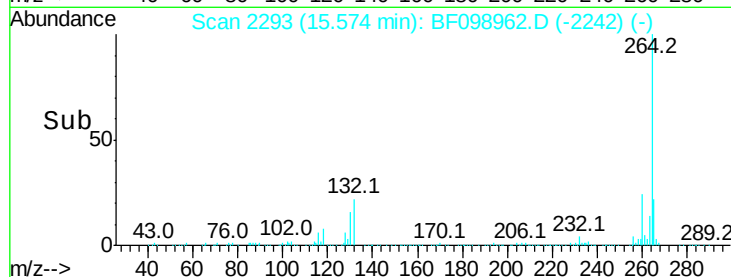
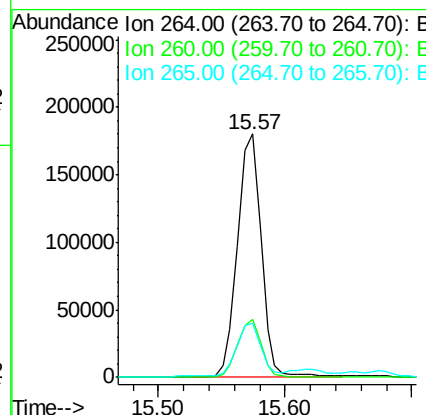
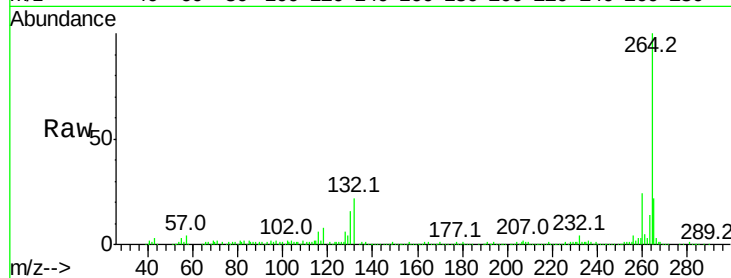




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.57 min Scan# 2293
Delta R.T. 0.00 min
Lab File: BF098962.D
Acq: 30 Sep 2017 14:59

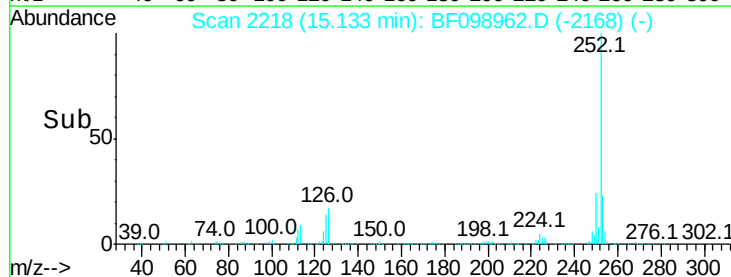
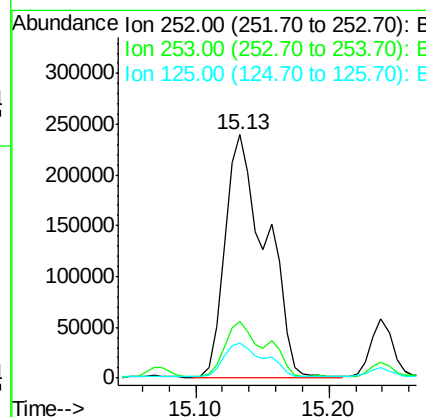
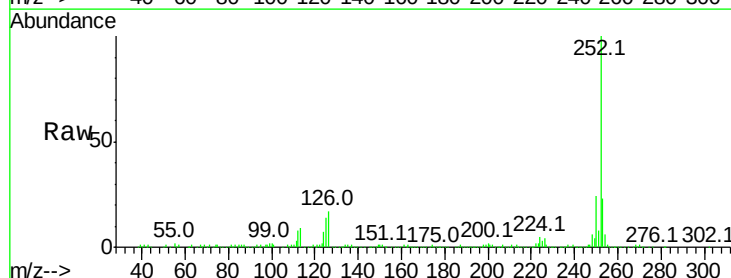
Instrument :
BNA_F
ClientSampled :

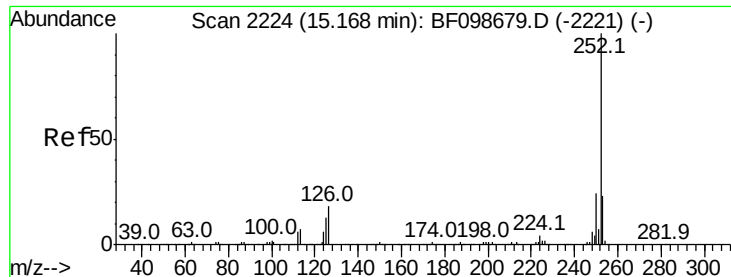
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.0	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 35.881 ng
RT: 15.13 min Scan# 2218
Delta R.T. -0.01 min
Lab File: BF098962.D
Acq: 30 Sep 2017 14:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	14.2	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 36.328 ng

RT: 15.13 min Scan# 2218

Delta R.T. -0.04 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

Instrument :

BNA_F

ClientSampleId :

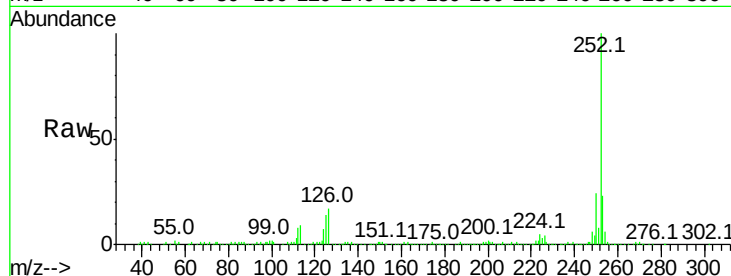
Tot Ion:252 Resp: 510666

Ion Ratio Lower Upper

252 100

253 23.2 17.9 26.9

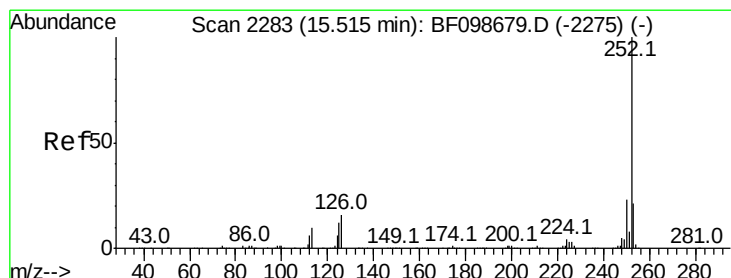
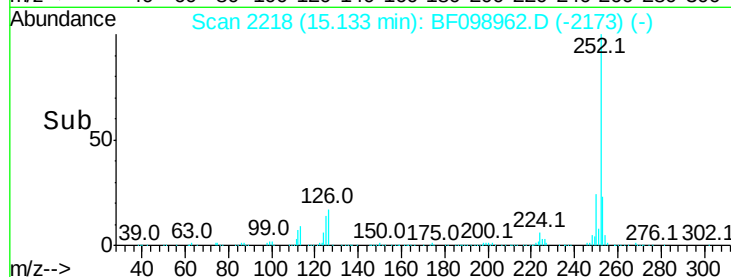
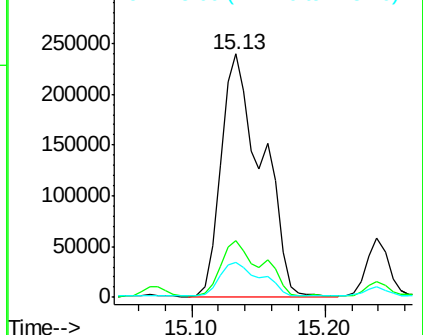
125 14.2 10.2 15.2



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: 21.337 ng

RT: 15.51 min Scan# 2282

Delta R.T. -0.01 min

Lab File: BF098962.D

Acq: 30 Sep 2017 14:59

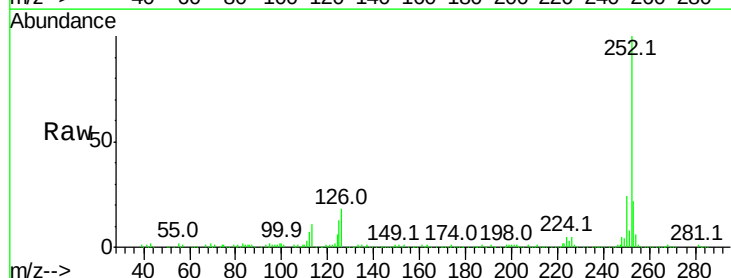
Tgt Ion:252 Resp: 278749

Ion Ratio Lower Upper

252 100

253 22.2 17.1 25.7

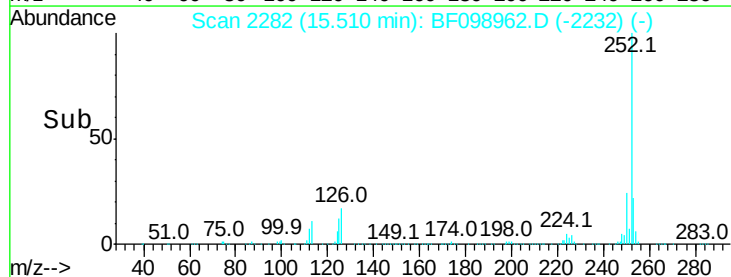
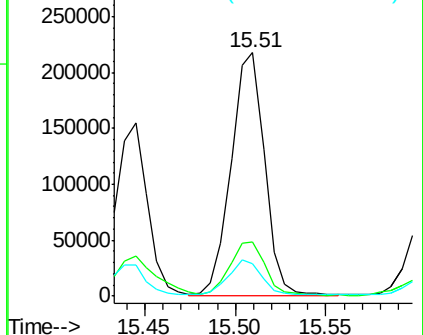
125 13.1 9.8 14.6

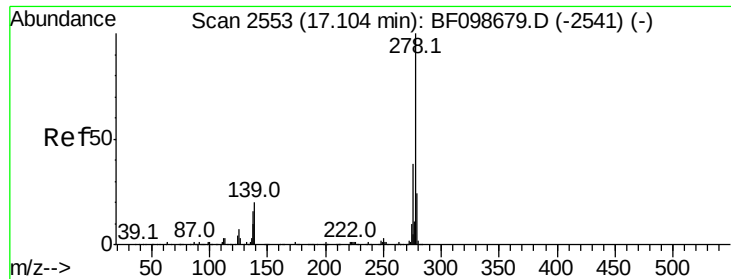


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

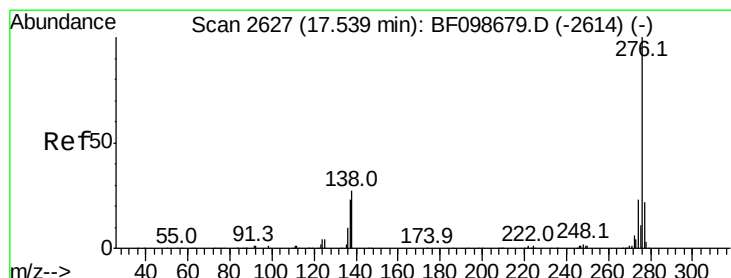
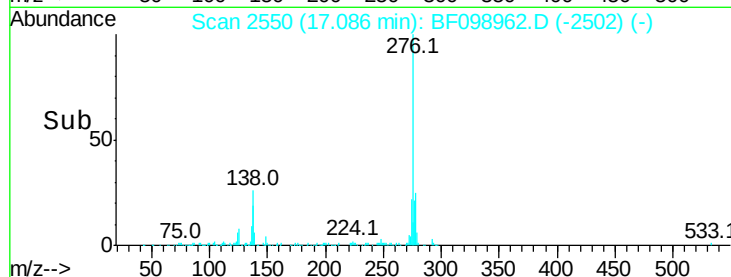
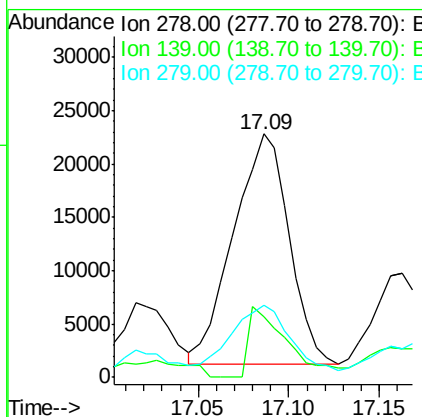
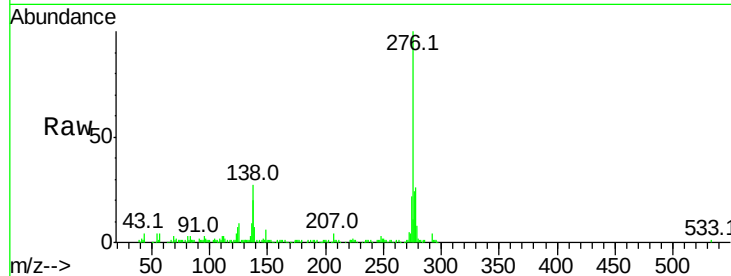




#90
Dibenzo(a,h)anthracene
Concen: 4.398 ng
RT: 17.09 min Scan# 2550
Delta R.T. -0.02 min
Lab File: BF098962.D
Acq: 30 Sep 2017 14:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.9	15.9	23.9#
279	29.8	19.0	28.4#



#91
Benzo(g,h,i)perylene
Concen: 18.028 ng
RT: 17.54 min Scan# 2627
Delta R.T. -0.01 min
Lab File: BF098962.D
Acq: 30 Sep 2017 14:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	17.9	26.9
138	31.8	21.8	32.8

