

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092017\
 Data File : BF098657.D
 Acq On : 20 Sep 2017 13:54
 Operator : SJ/JU
 Sample : I5276-05
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 21 05:18:01 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 18 13:37:24 2017
 Response via : Initial Calibration

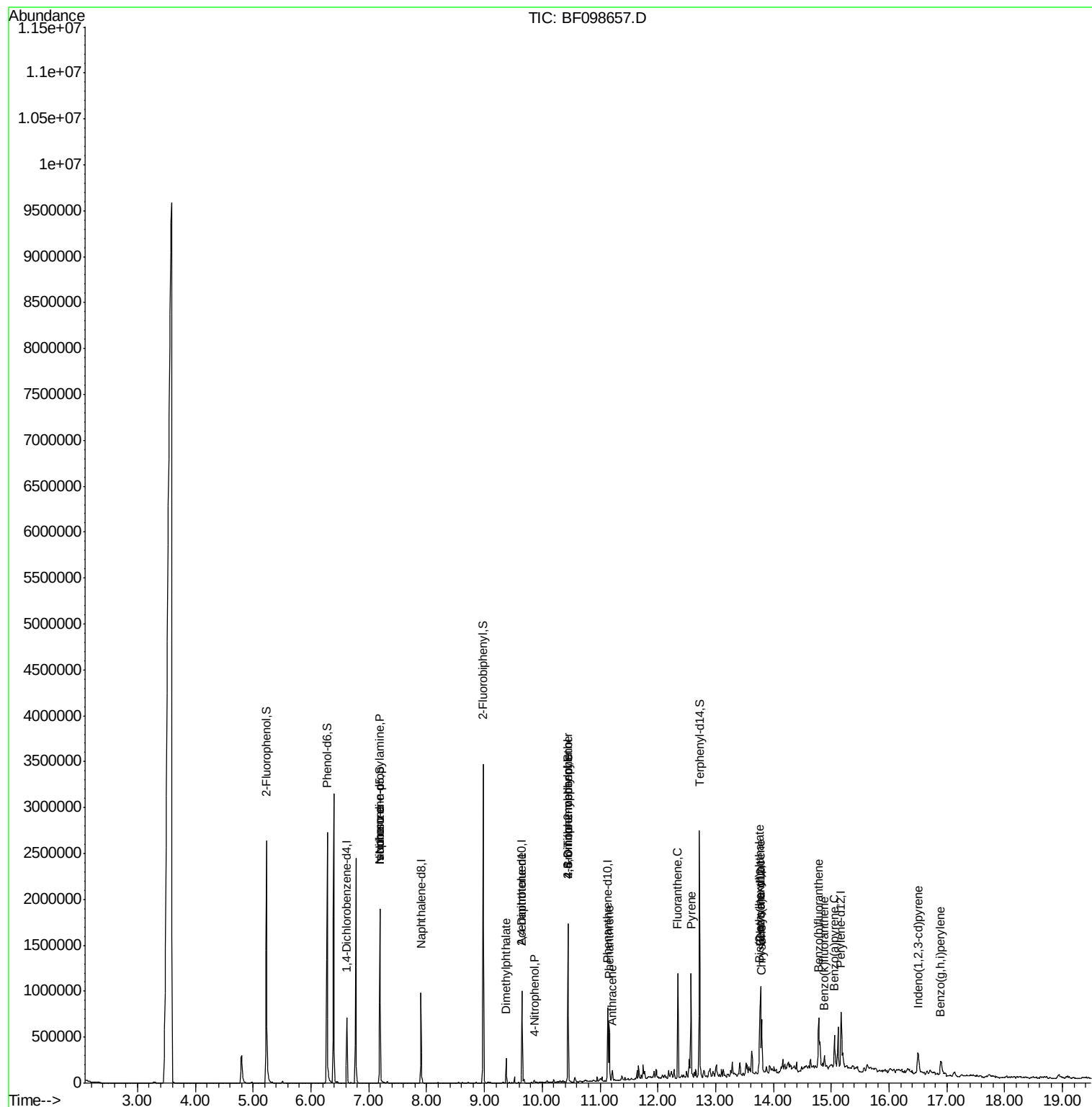
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.62	152	103868	20.00	ng	-0.02
21) Naphthalene-d8	7.90	136	412229	20.00	ng	-0.02
38) Acenaphthene-d10	9.65	164	180735	20.00	ng	-0.02
63) Phenanthrene-d10	11.13	188	280377	20.00	ng	-0.02
75) Chrysene-d12	13.77	240	230019	20.00	ng	-0.01
86) Perylene-d12	15.17	264	259835	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	788276	112.21	ng	-0.01
7) Phenol-d6	6.28	99	954692	107.03	ng	-0.01
23) Nitrobenzene-d5	7.19	82	589342	79.70	ng	-0.02
41) 2,4,6-Tribromophenol	10.45	330	161545	133.92	ng	-0.02
44) 2-Fluorobiphenyl	8.98	172	1012977	95.00	ng	-0.02
78) Terphenyl-d14	12.72	244	781534	73.34	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.19	70	80305	14.31	ng	# 82
25) Isophorone	7.19	82	589336	39.39	ng	# 67
49) Dimethylphthalate	9.38	163	104897	7.50	ng	98
55) 4-Nitrophenol	9.86	139	4138	2.08	ng	# 25
56) 2,4-Dinitrotoluene	9.65	165	23488	6.72	ng	# 33
64) 4,6-Dinitro-2-methylphenol	10.45	198	380	5.16	ng	# 1
66) 4-Bromophenyl-phenylether	10.45	248	12103	4.55	ng	# 1
70) Phenanthrene	11.16	178	227921	15.33	ng	98
71) Anthracene	11.21	178	47886	3.14	ng	95
74) Fluoranthene	12.35	202	459984	30.91	ng	95
77) Pyrene	12.57	202	421792	23.25	ng	98
80) Benzo(a)anthracene	13.76	228	212476	15.76	ng	99
82) Chrysene	13.80	228	204577	15.01	ng	96
83) Bis(2-ethylhexyl)phthalate	13.76	149	61095	6.18	ng	# 94
85) Indeno(1,2,3-cd)pyrene	16.50	276	121924	12.75	ng	# 87
87) Benzo(b)fluoranthene	14.78	252	365214	22.35	ng	98
88) Benzo(k)fluoranthene	14.88	252	46409	3.04	ng	98
89) Benzo(a)pyrene	15.06	252	141129	9.70	ng	98
91) Benzo(a,h,i)perylene	16.90	276	109757	10.31	ng	92

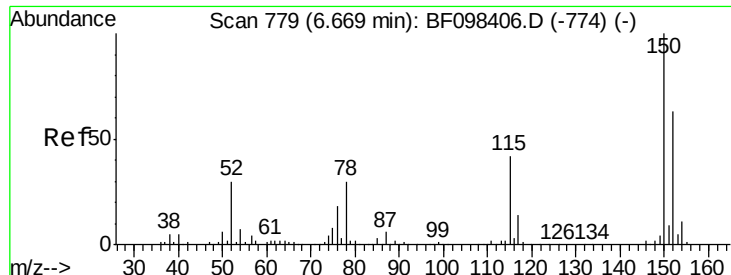
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 770

Delta R.T. -0.02 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

Instrument :

BNA_F

ClientSampled :

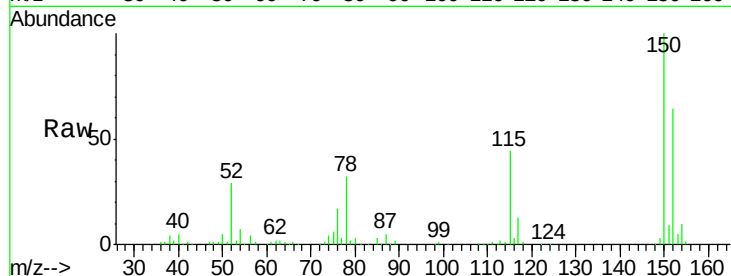
Tot Ion:152 Resp: 103868

Ion Ratio Lower Upper

152 100

150 156.0 126.2 189.2

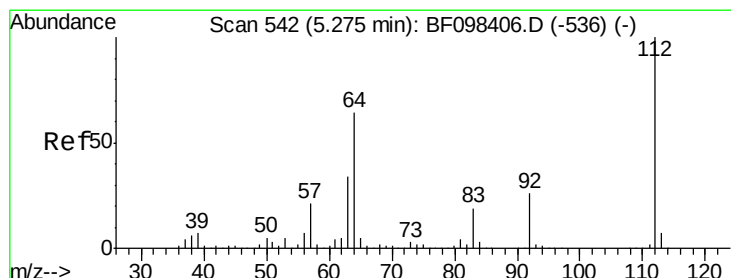
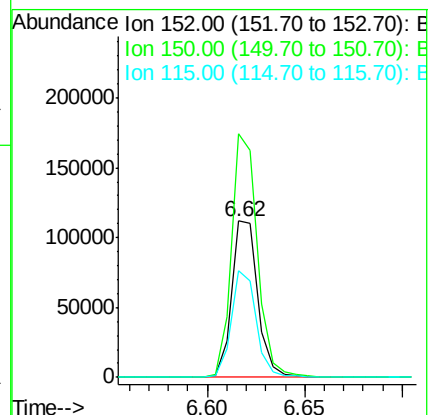
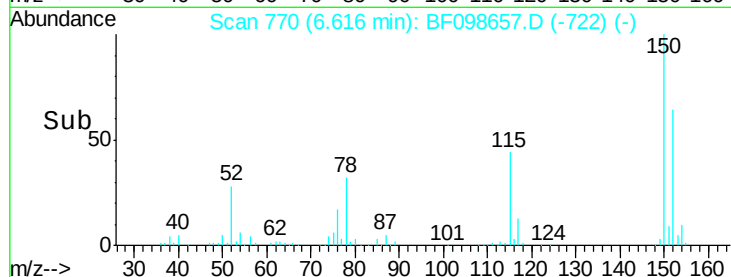
115 68.5 52.2 78.2



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: 112.21 ng

RT: 5.23 min Scan# 534

Delta R.T. -0.01 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

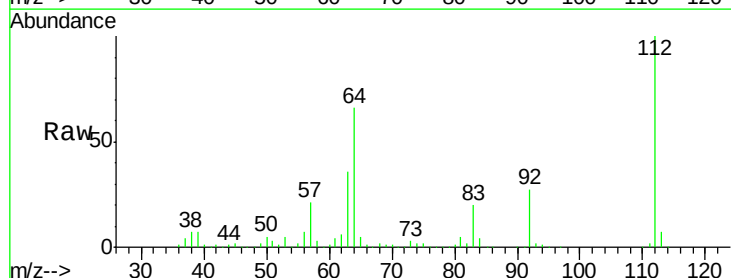
Tgt Ion:112 Resp: 788276

Ion Ratio Lower Upper

112 100

64 66.4 46.0 69.0

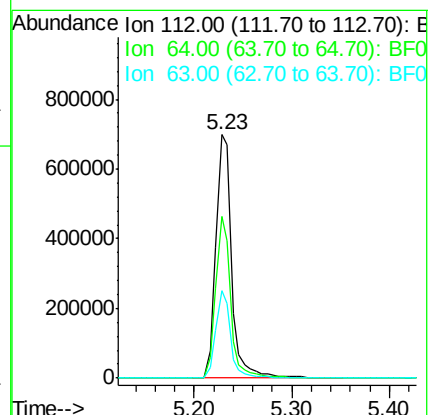
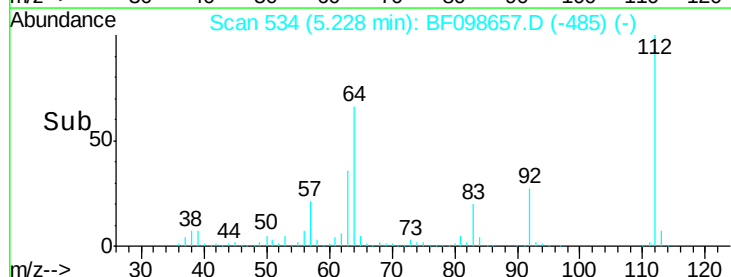
63 36.0 23.4 35.0#

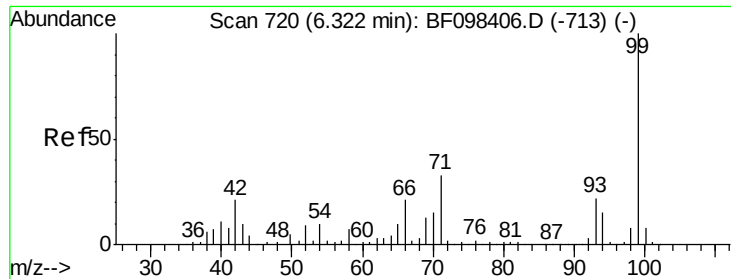


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 107.03 ng

RT: 6.28 min Scan# 713

Delta R.T. -0.01 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

Instrument :

BNA_F

ClientSampleId :

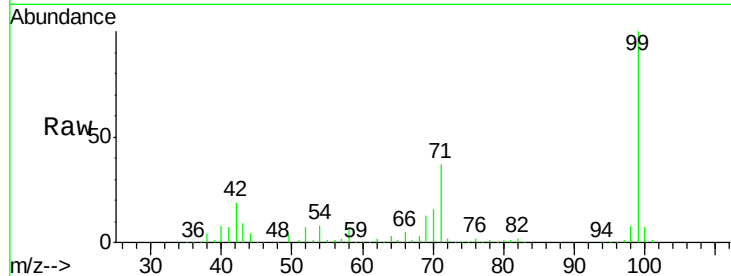
Tot Ion: 99 Resp: 954692

Ion Ratio Lower Upper

99 100

42 19.3 13.5 20.3

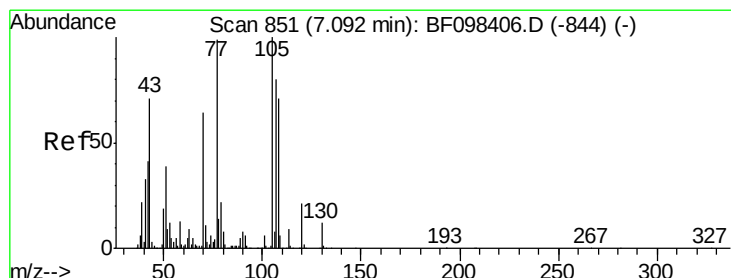
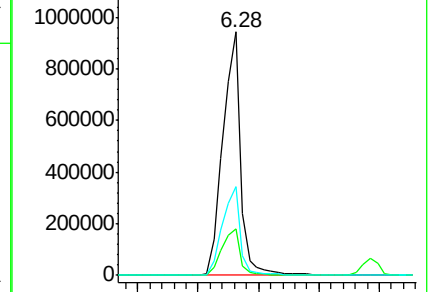
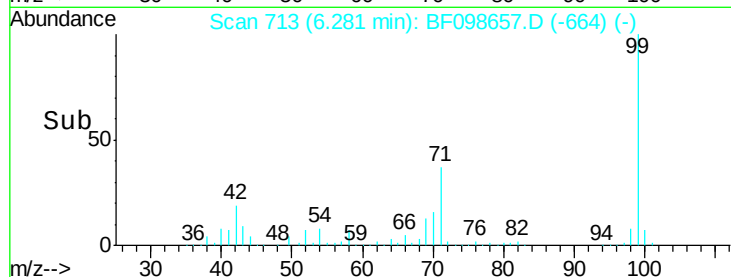
71 36.5 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 14.31 ng

RT: 7.19 min Scan# 868

Delta R.T. 0.14 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

Tgt Ion: 70 Resp: 80305

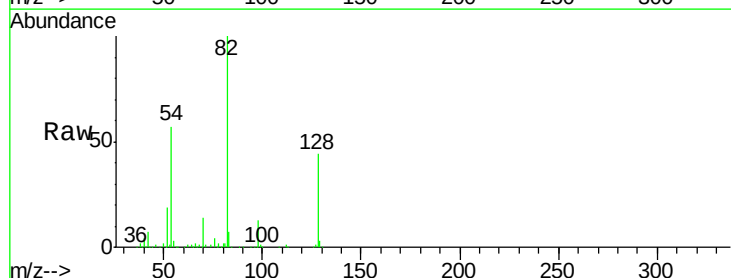
Ion Ratio Lower Upper

70 100

42 51.4 47.2 70.8

101 0.0 7.2 10.8#

130 1.6 15.9 23.9#

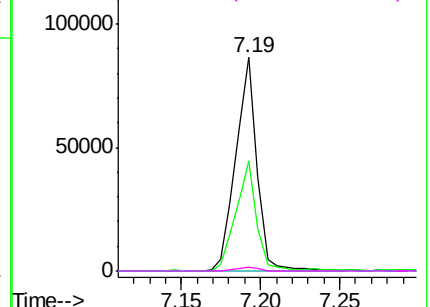
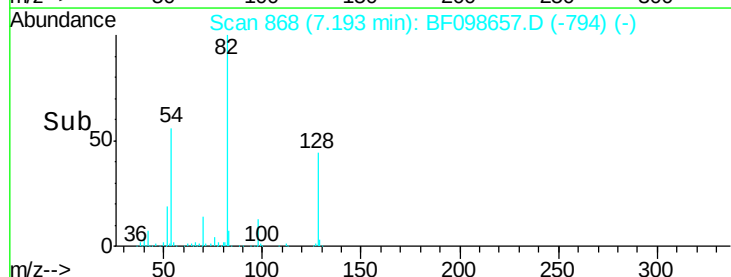


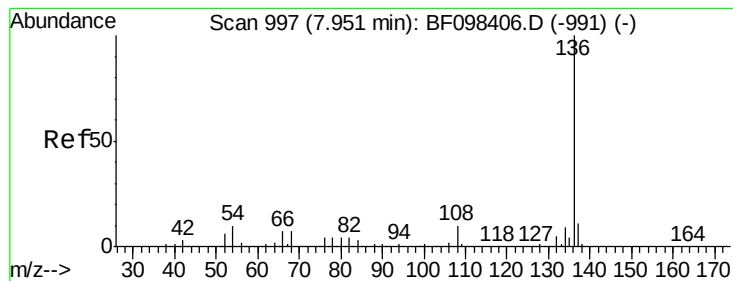
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 989

Delta R.T. -0.02 min

Lab File: BF098657.D

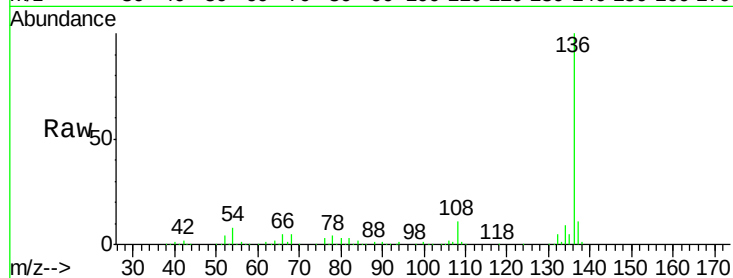
Acq: 20 Sep 2017 13:54

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136	Resp:	412229
Ion Ratio	Lower	Upper
136	100	
137	11.0	8.5 12.7
54	8.3	4.9 7.3#
68	4.7	4.1 6.1

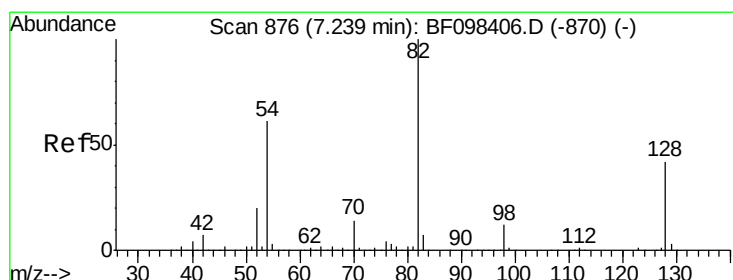
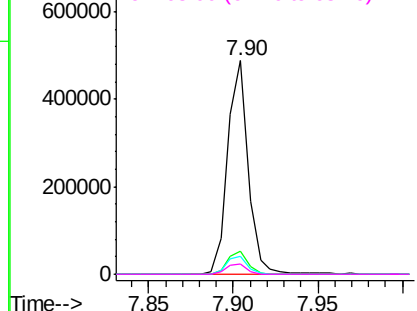
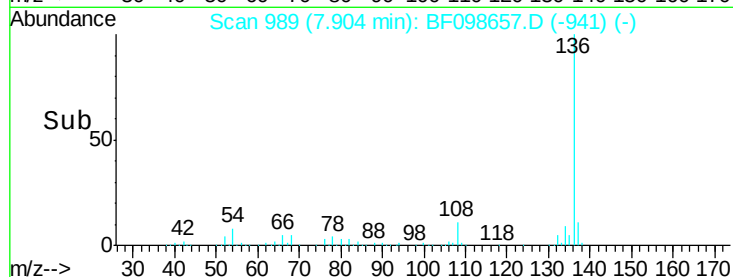


Abundance Ion 136.00 (135.70 to 136.70): E

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: 79.70 ng

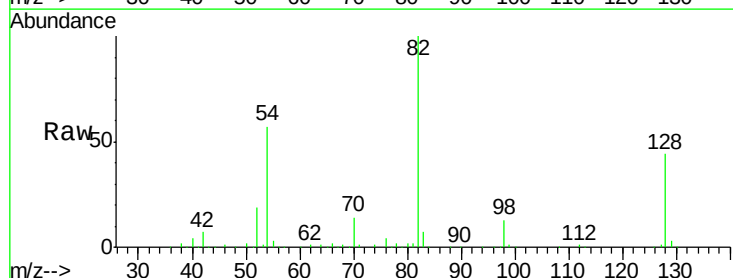
RT: 7.19 min Scan# 868

Delta R.T. -0.02 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

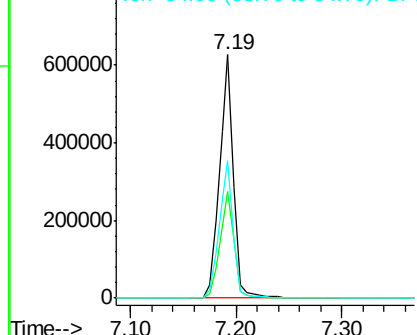
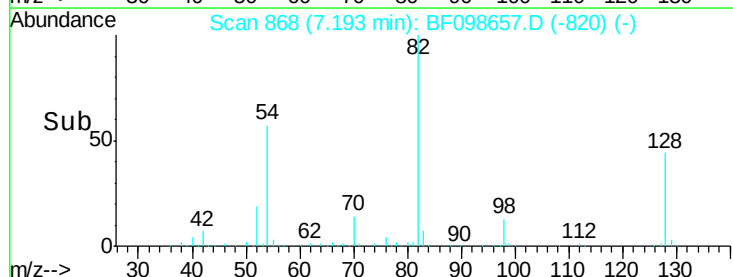
Tgt Ion: 82	Resp:	589342
Ion Ratio	Lower	Upper
82	100	
128	44.0	34.0 51.0
54	56.6	42.2 63.2

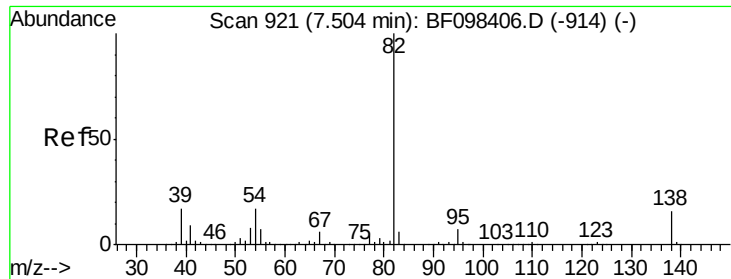


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 39.39 ng

RT: 7.19 min Scan# 868

Delta R.T. -0.28 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

Instrument :

BNA_F

ClientSampled :

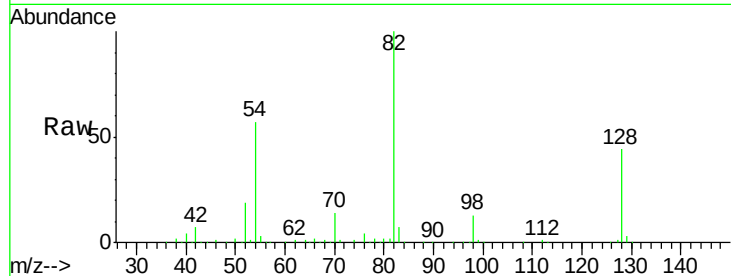
Tot Ion: 82 Resp: 589336

Ion Ratio Lower Upper

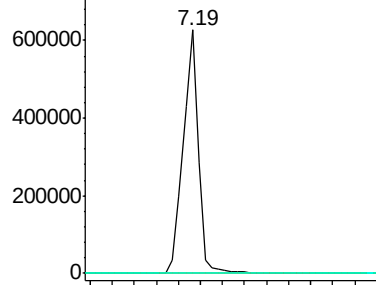
82 100

95 0.0 5.3 7.9#

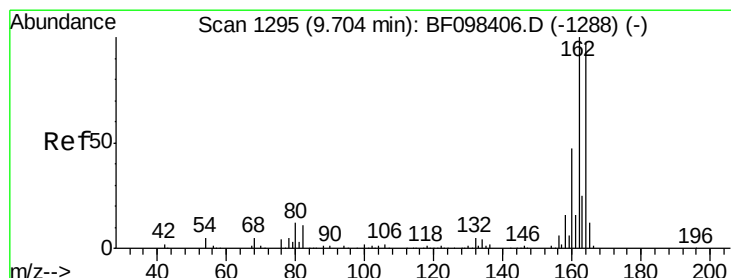
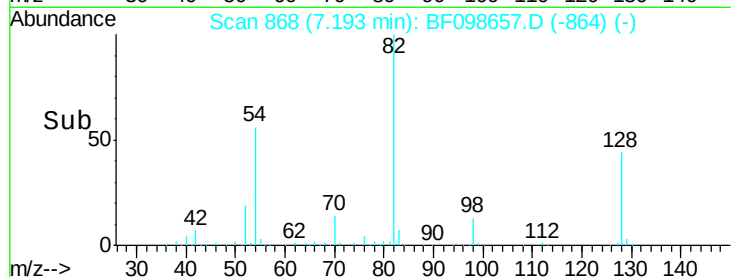
138 0.0 13.1 19.7#



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



Time--> 7.10 7.20 7.30



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.65 min Scan# 1286

Delta R.T. -0.02 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

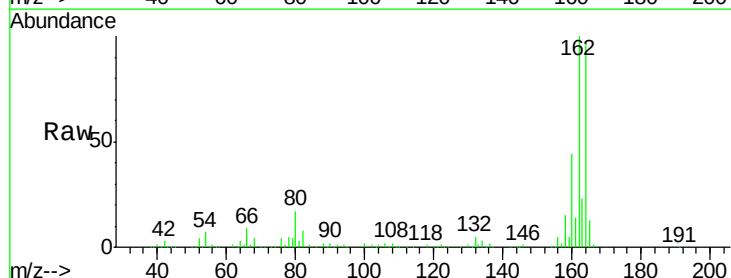
Tgt Ion: 164 Resp: 180735

Ion Ratio Lower Upper

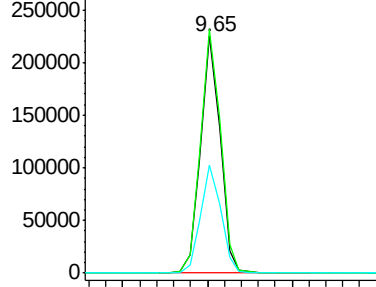
164 100

162 102.9 82.6 123.8

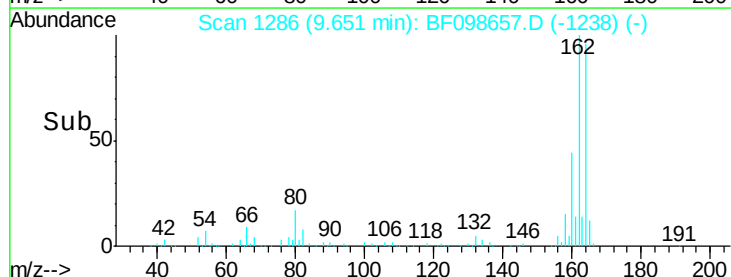
160 45.7 36.2 54.2

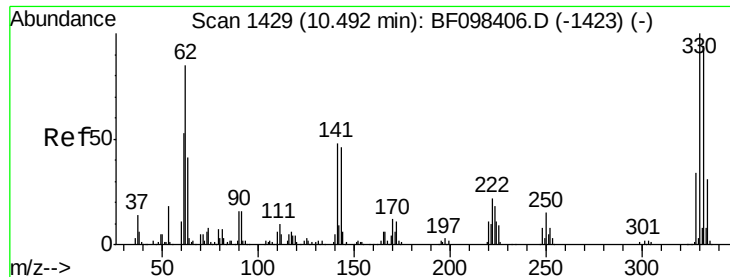


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



Time--> 9.60 9.65 9.70

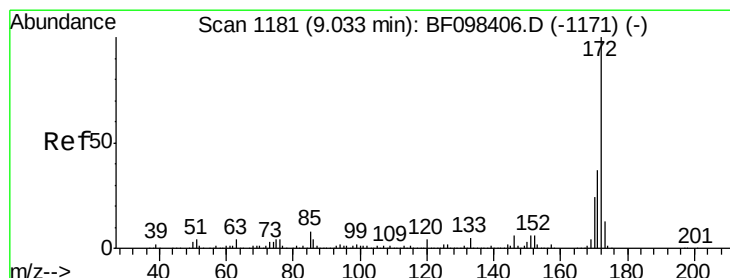
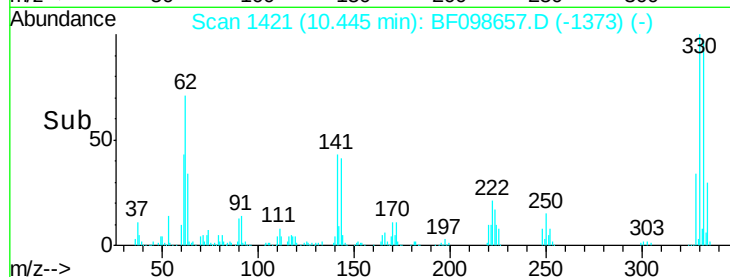
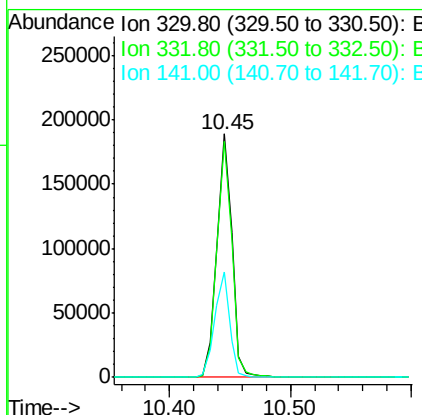
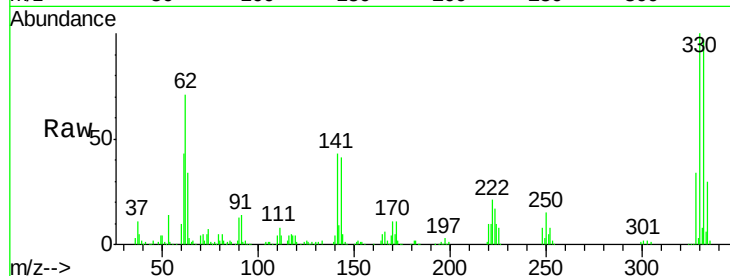




#41
 2,4,6-Tribromophenol
 Concen: 133.92 ng
 RT: 10.45 min Scan# 1421
 Delta R.T. -0.02 min
 Lab File: BF098657.D
 Acq: 20 Sep 2017 13:54

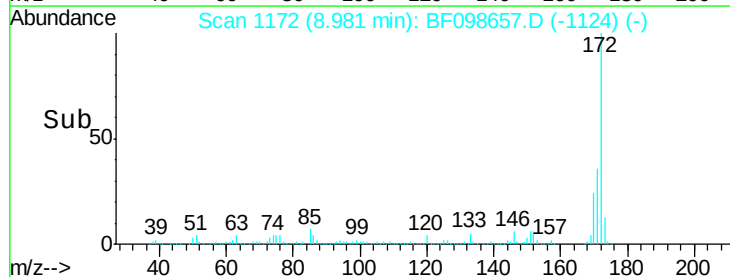
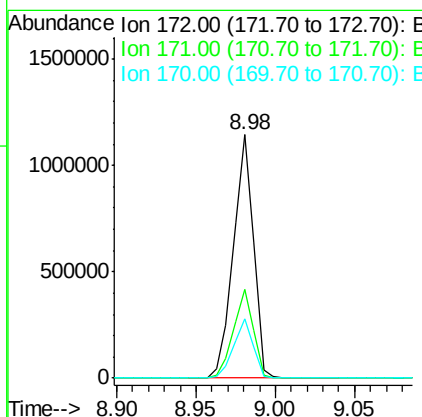
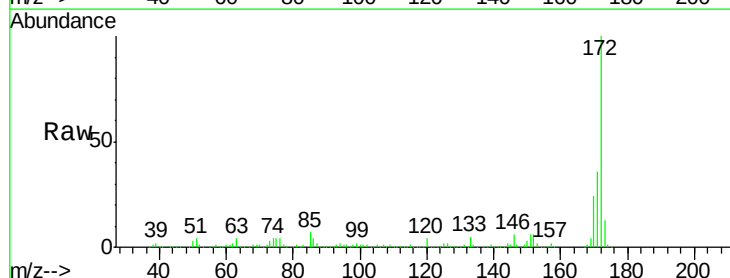
Instrument :
 BNA_F
 ClientSampleId :

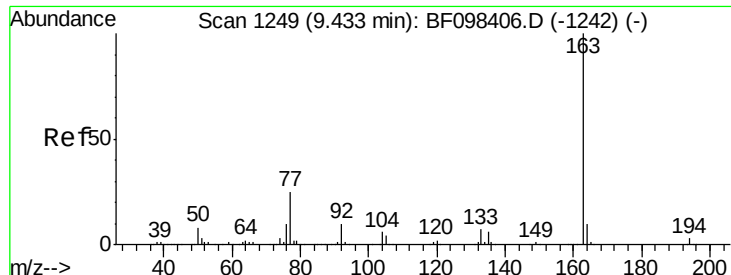
Tot Ion:330 Resp: 161545
 Ion Ratio Lower Upper
 330 100
 332 96.5 76.6 115.0
 141 43.1 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 95.00 ng
 RT: 8.98 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: BF098657.D
 Acq: 20 Sep 2017 13:54

Tgt Ion:172 Resp: 1012977
 Ion Ratio Lower Upper
 172 100
 171 36.2 29.6 44.4
 170 24.3 19.8 29.8

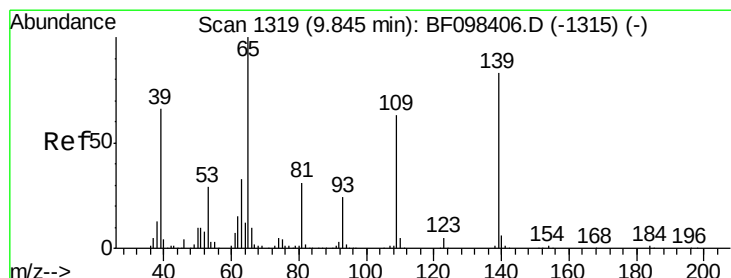
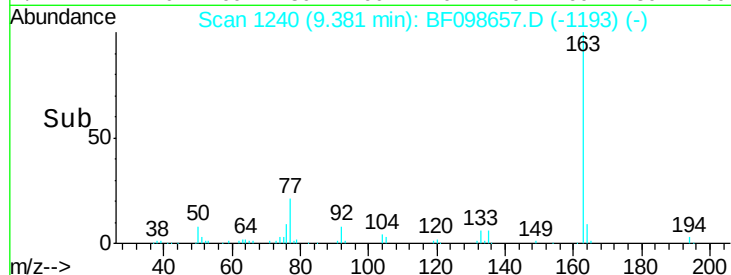
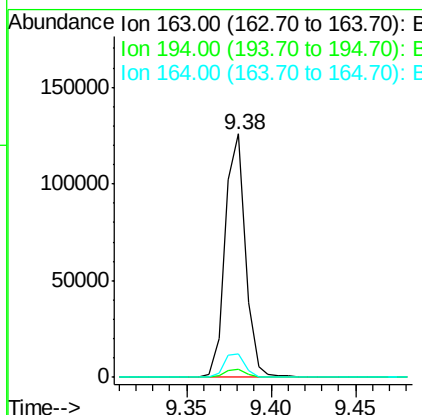
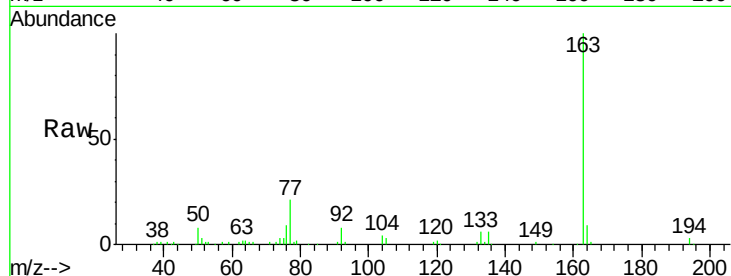




#49
Dimethylphthalate
Concen: 7.50 ng
RT: 9.38 min Scan# 1240
Delta R.T. -0.02 min
Lab File: BF098657.D
Acq: 20 Sep 2017 13:54

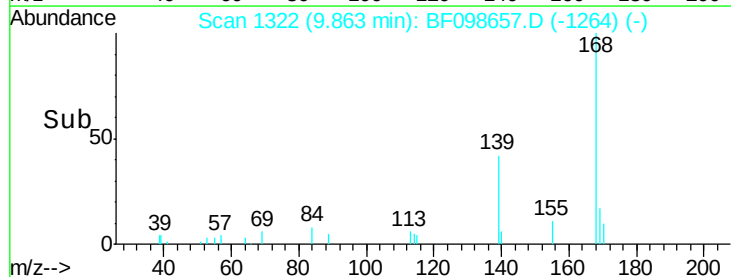
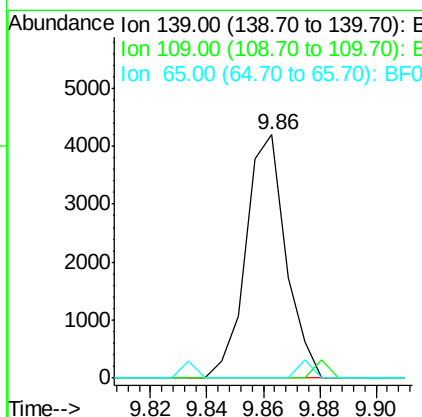
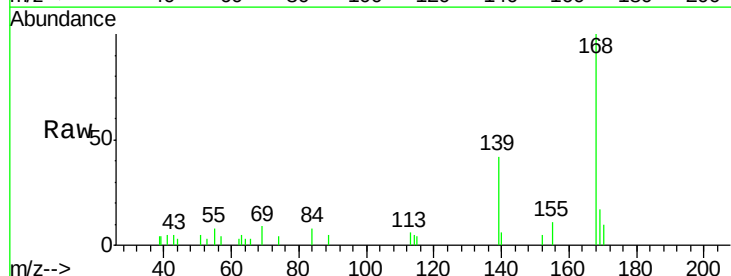
Instrument :
BNA_F
ClientSampleId :

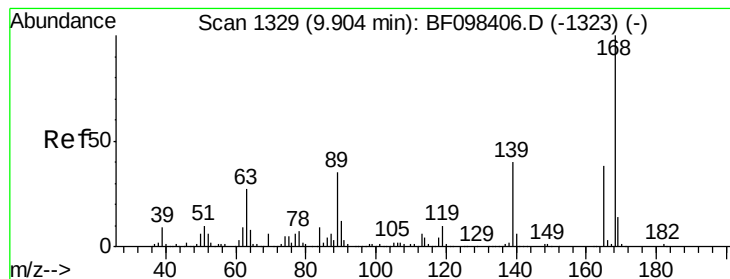
Tot Ion:163 Resp: 104897
Ion Ratio Lower Upper
163 100
194 3.1 2.6 4.0
164 9.4 8.4 12.6



#55
4-Nitrophenol
Concen: 2.08 ng
RT: 9.86 min Scan# 1322
Delta R.T. 0.04 min
Lab File: BF098657.D
Acq: 20 Sep 2017 13:54

Tgt Ion:139 Resp: 4138
Ion Ratio Lower Upper
139 100
109 0.0 34.1 74.1#
65 0.0 31.4 71.4#





#56

2,4-Dinitrotoluene

Concen: 6.72 ng

RT: 9.65 min Scan# 1286

Delta R.T. -0.23 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 23488

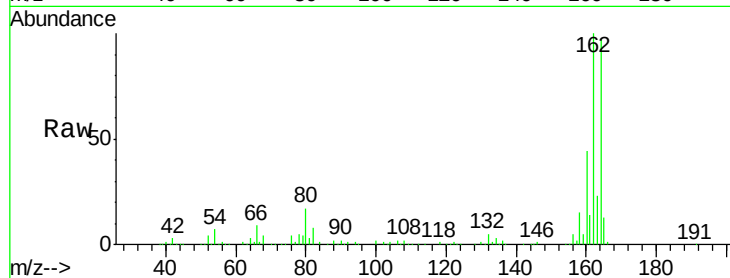
Ion Ratio Lower Upper

165 100

63 2.1 25.4 38.0#

89 1.5 46.4 69.6#

182 0.0 1.8 2.6#

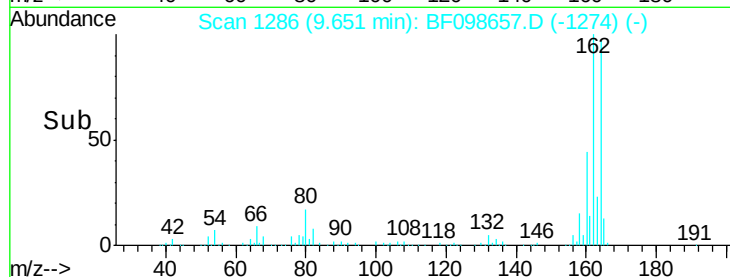


Abundance Ion 165.00 (164.70 to 165.70): E

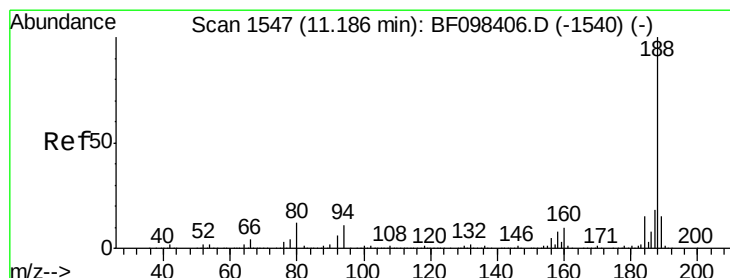
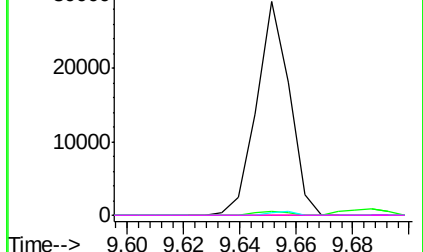
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.13 min Scan# 1538

Delta R.T. -0.02 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

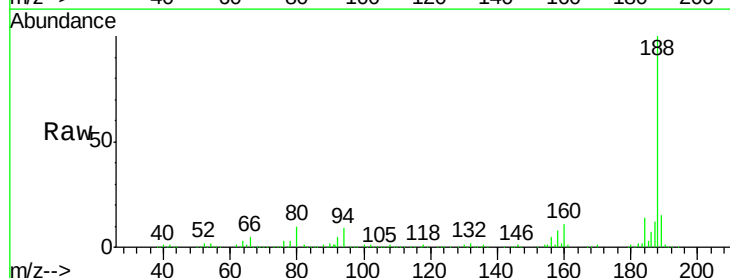
Tgt Ion:188 Resp: 280377

Ion Ratio Lower Upper

188 100

94 9.5 9.4 14.2

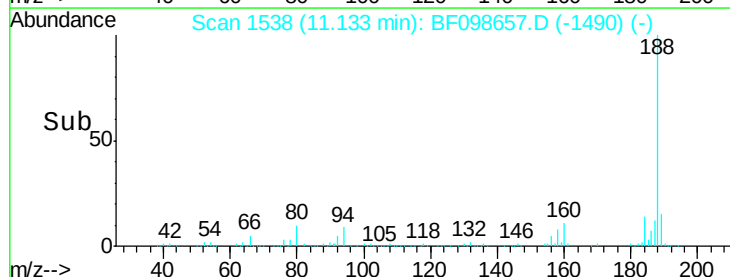
80 10.0 10.2 15.2#



Abundance Ion 188.00 (187.70 to 188.70): E

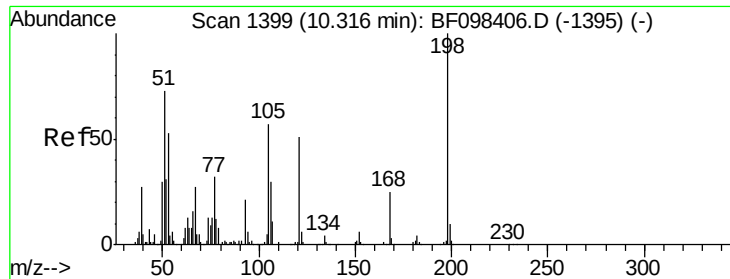
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time-->





#64

4,6-Dinitro-2-methylphenol

Concen: 5.16 ng

RT: 10.45 min Scan# 1421

Delta R.T. 0.15 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

Instrument :

BNA_F

ClientSampled :

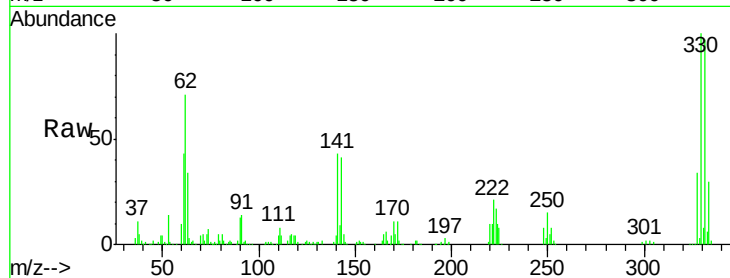
Tot Ion:198 Resp: 380

Ion Ratio Lower Upper

198 100

51 184.0 53.2 93.2#

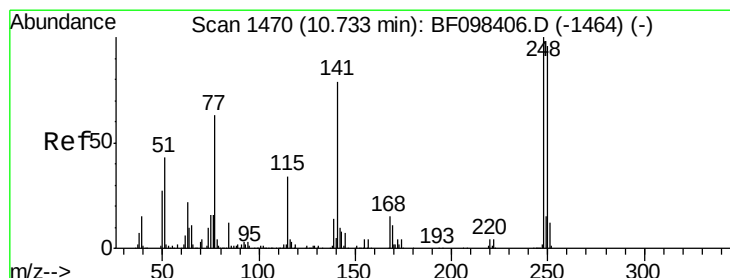
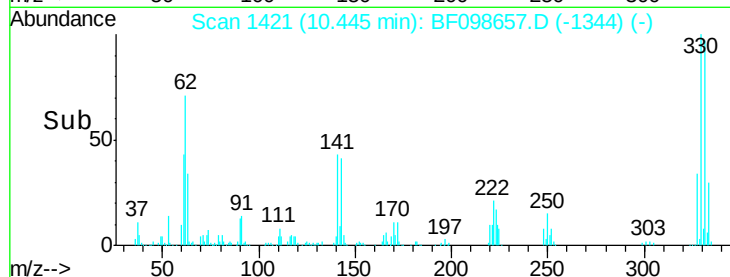
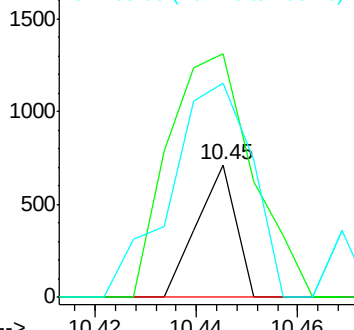
105 161.7 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 4.55 ng

RT: 10.45 min Scan# 1421

Delta R.T. -0.25 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

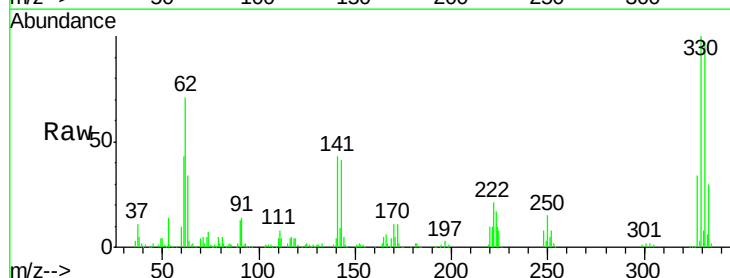
Tgt Ion:248 Resp: 12103

Ion Ratio Lower Upper

248 100

250 190.8 76.8 115.2#

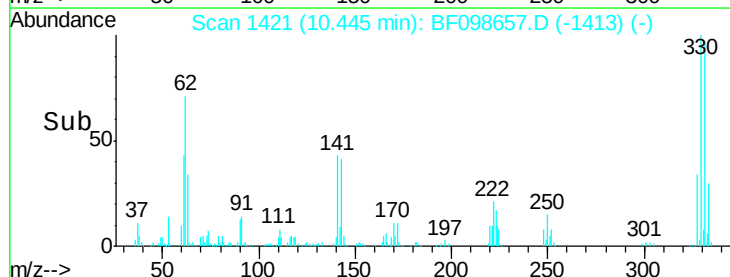
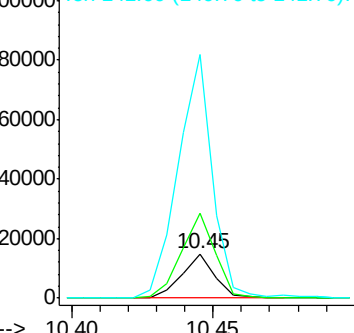
141 548.8 68.6 103.0#

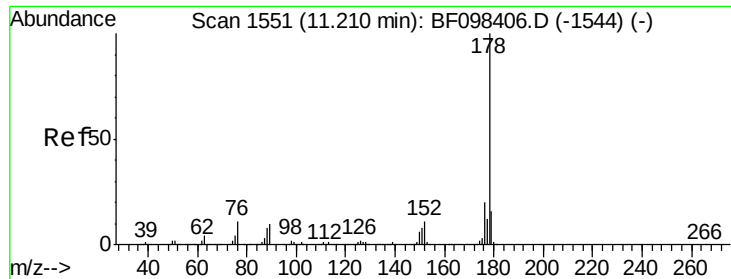


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

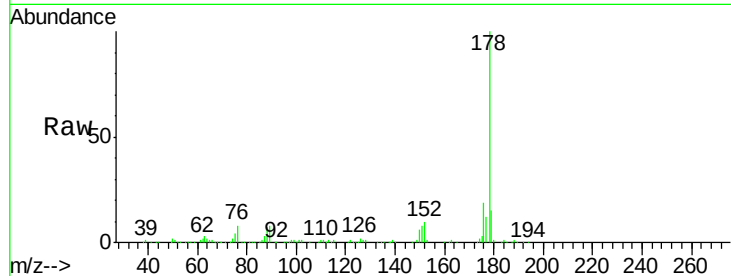




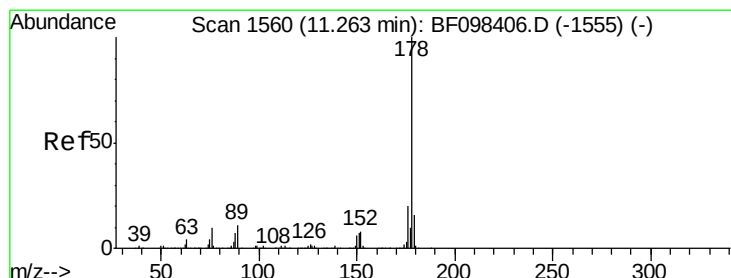
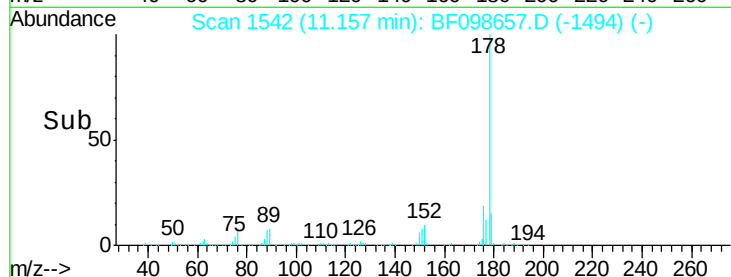
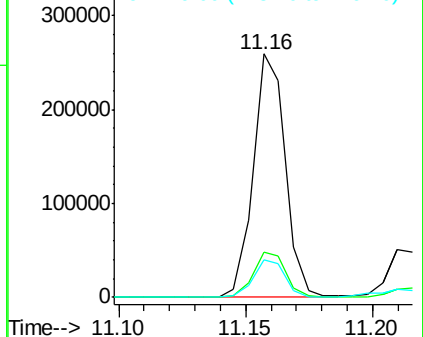
#70
Phenanthrene
Concen: 15.33 ng
RT: 11.16 min Scan# 1542
Delta R.T. -0.02 min
Lab File: BF098657.D
Acq: 20 Sep 2017 13:54

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 227921
Ion Ratio Lower Upper
178 100
176 18.7 16.2 24.4
179 15.3 12.6 19.0

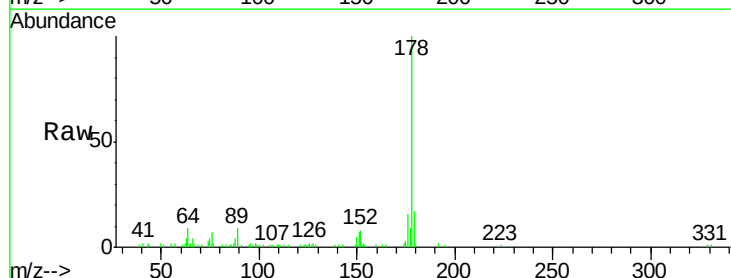


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

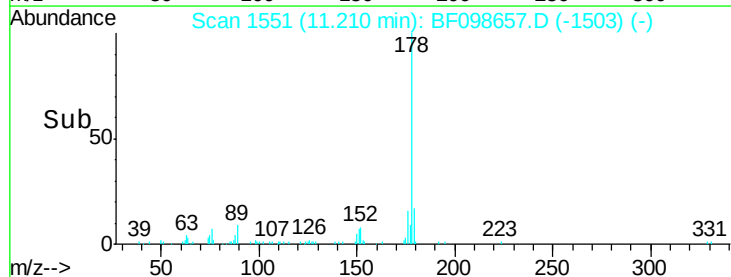
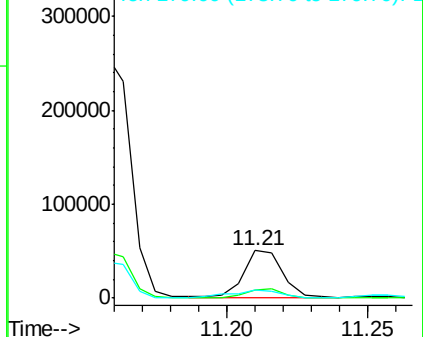


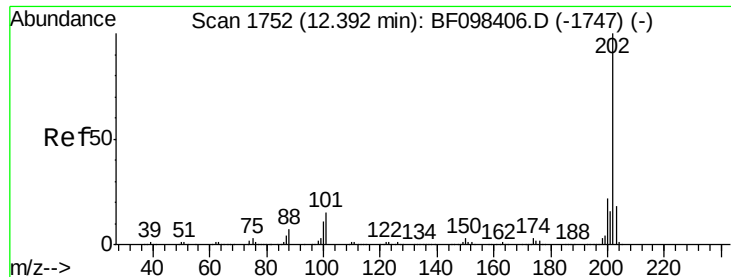
#71
Anthracene
Concen: 3.14 ng
RT: 11.21 min Scan# 1551
Delta R.T. -0.02 min
Lab File: BF098657.D
Acq: 20 Sep 2017 13:54

Tgt Ion:178 Resp: 47886
Ion Ratio Lower Upper
178 100
176 16.4 15.8 23.8
179 17.0 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





#74

Fluoranthene

Concen: 30.91 ng

RT: 12.35 min Scan# 1745

Delta R.T. -0.01 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

Instrument :

BNA_F

ClientSampleId :

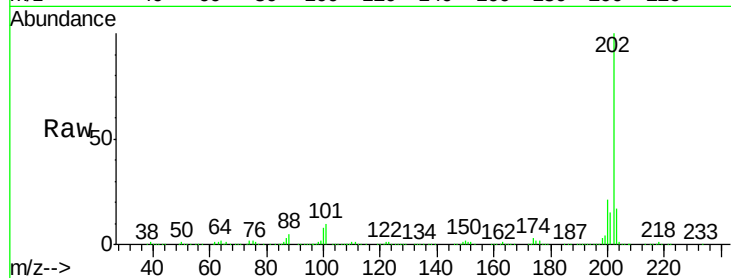
Tot Ion:202 Resp: 459984

Ion Ratio Lower Upper

202 100

101 10.0 0.0 33.2

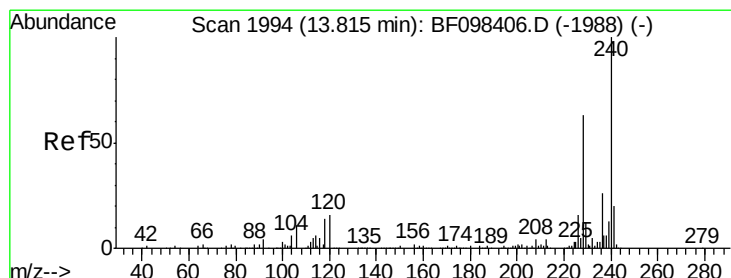
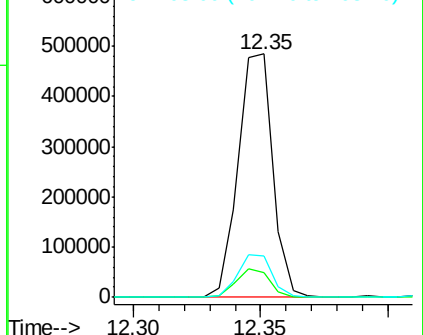
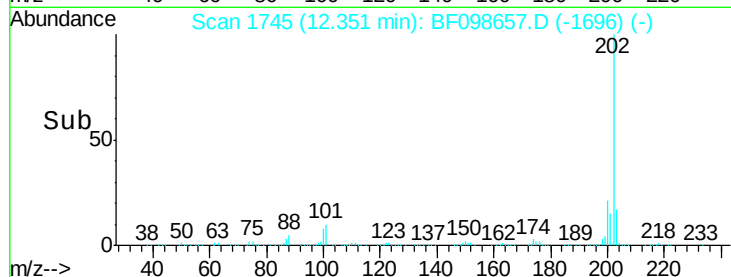
203 17.1 0.0 38.1



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: 13.77 min Scan# 1987

Delta R.T. -0.01 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

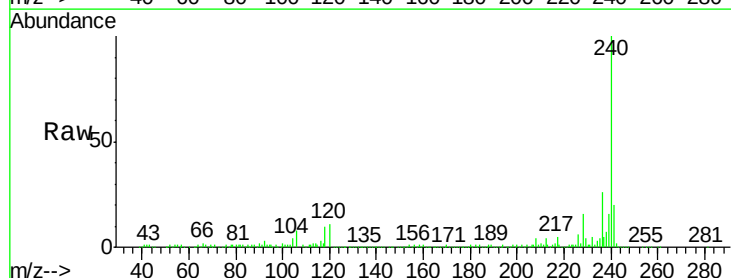
Tgt Ion:240 Resp: 230019

Ion Ratio Lower Upper

240 100

120 11.0 5.8 8.8#

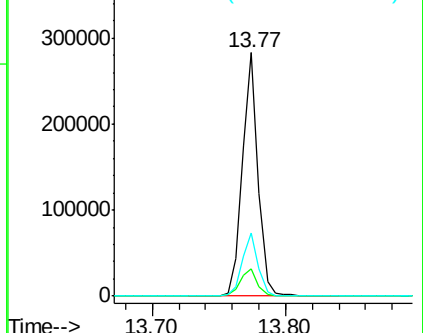
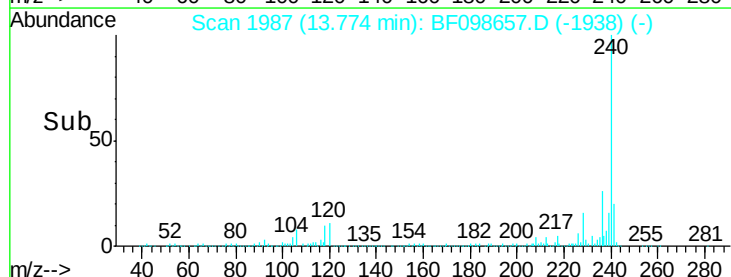
236 25.9 20.5 30.7

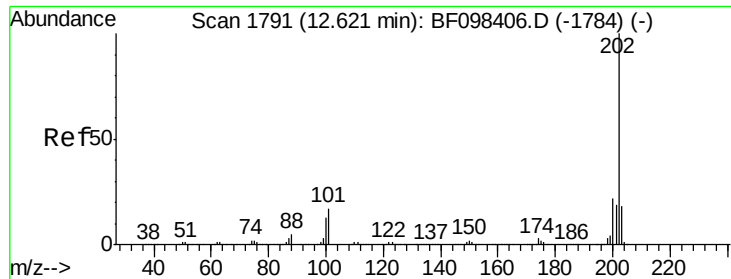


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

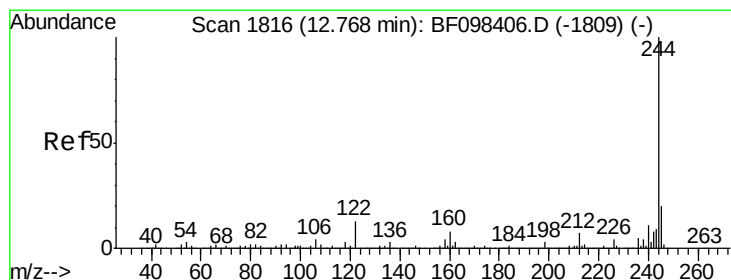
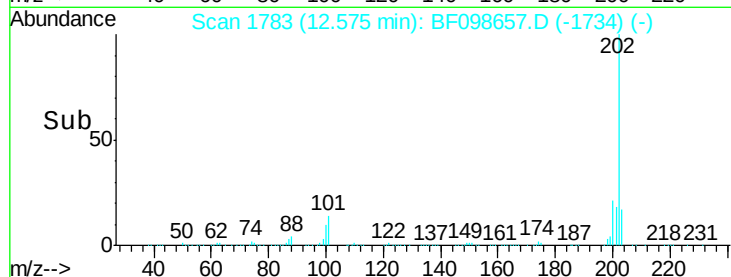
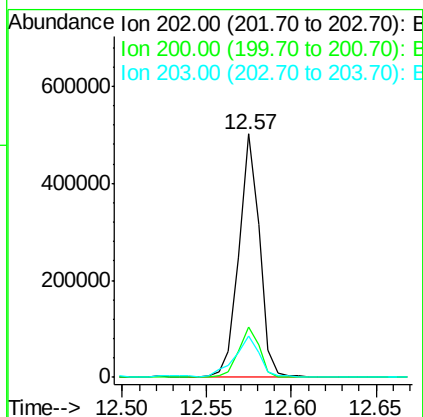
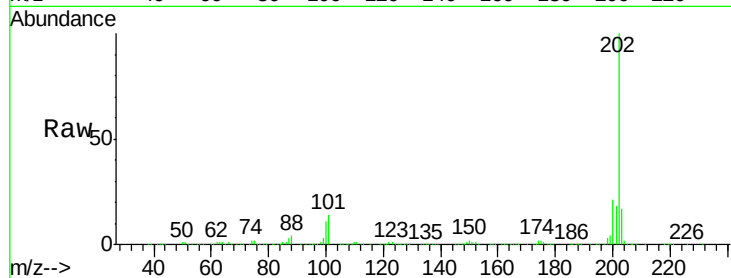




#77
Pvrene
Concen: 23.25 ng
RT: 12.57 min Scan# 1783
Delta R.T. -0.01 min
Lab File: BF098657.D
Acq: 20 Sep 2017 13:54

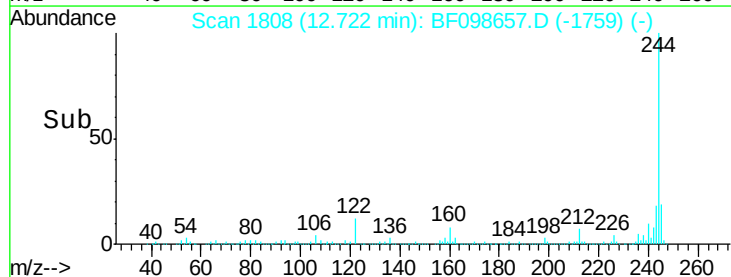
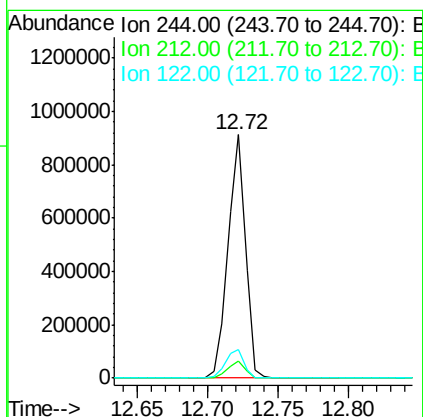
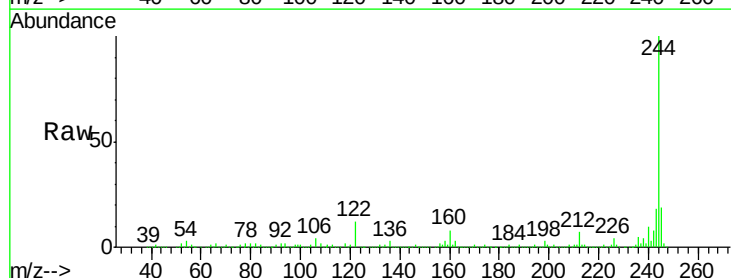
Instrument :
BNA_F
ClientSampleId :

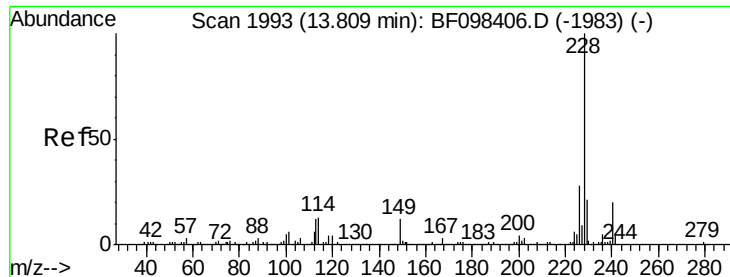
Tot Ion:202 Resp: 421792
Ion Ratio Lower Upper
202 100
200 20.8 17.6 26.4
203 16.9 14.4 21.6



#78
Terphenyl-d14
Concen: 73.34 ng
RT: 12.72 min Scan# 1808
Delta R.T. -0.01 min
Lab File: BF098657.D
Acq: 20 Sep 2017 13:54

Tgt Ion:244 Resp: 781534
Ion Ratio Lower Upper
244 100
212 7.0 6.0 9.0
122 11.8 10.3 15.5





#80

Benzo(a)anthracene

Concen: 15.76 ng

RT: 13.76 min Scan# 1985

Delta R.T. -0.01 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

Instrument :

BNA_F

ClientSampleId :

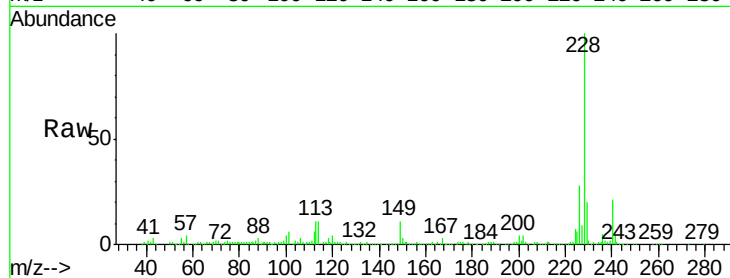
Tot Ion:228 Resp: 212476

Ion Ratio Lower Upper

228 100

226 27.9 22.6 33.8

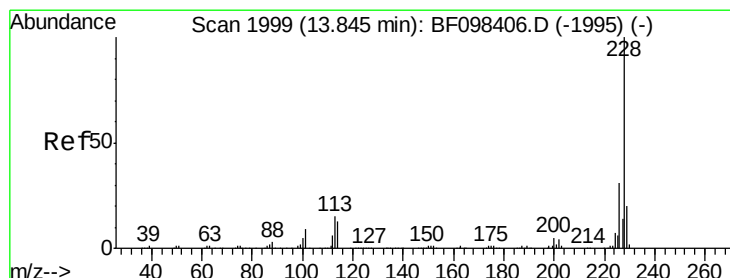
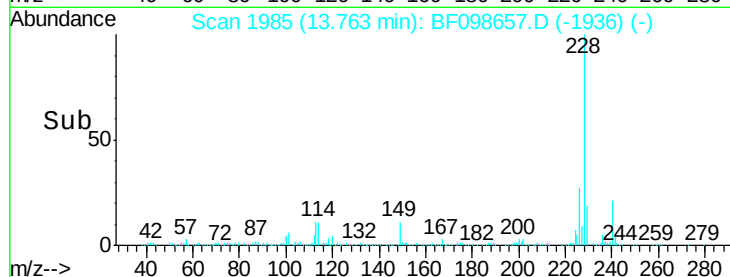
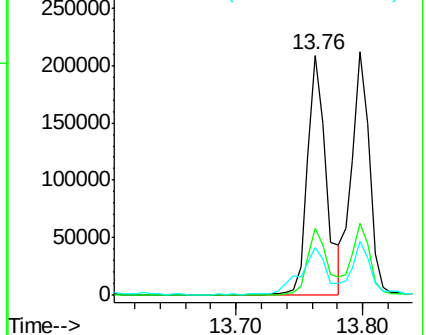
229 20.1 16.3 24.5



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: 15.01 ng

RT: 13.80 min Scan# 1991

Delta R.T. -0.02 min

Lab File: BF098657.D

Acq: 20 Sep 2017 13:54

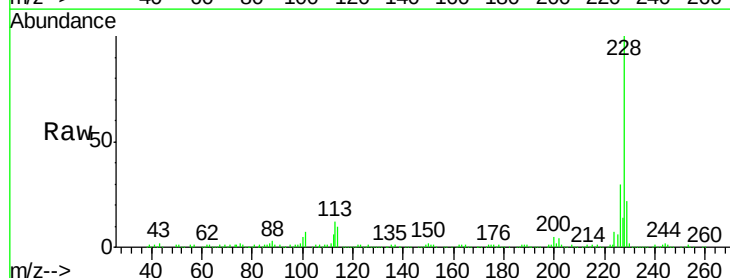
Tgt Ion:228 Resp: 204577

Ion Ratio Lower Upper

228 100

226 29.6 24.9 37.3

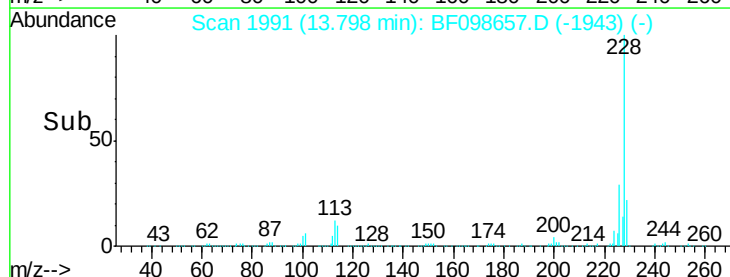
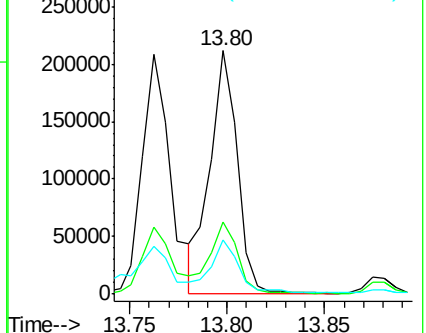
229 22.0 15.8 23.6

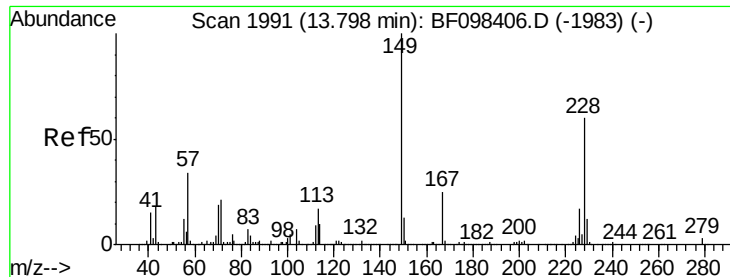


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

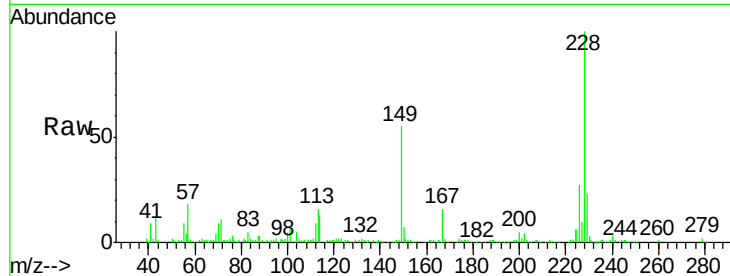




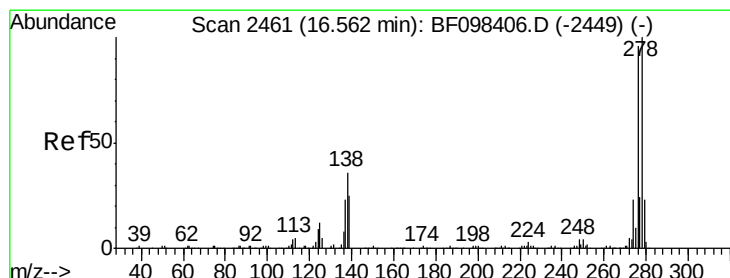
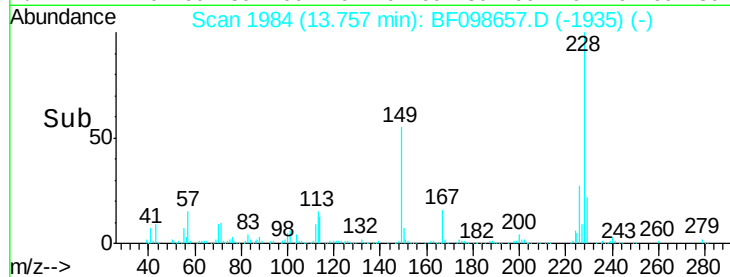
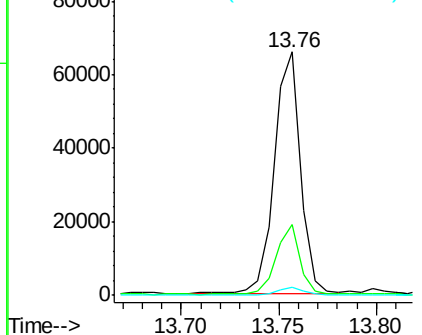
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 6.18 ng
 RT: 13.76 min Scan# 1984
 Delta R.T. -0.01 min
 Lab File: BF098657.D
 Acq: 20 Sep 2017 13:54

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
149	100		
167	29.2	21.0	31.4
279	3.2	1.9	2.9#

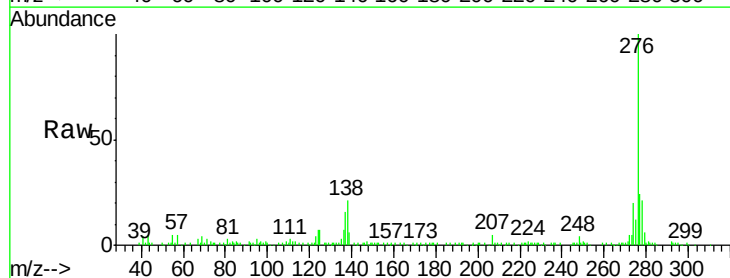


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

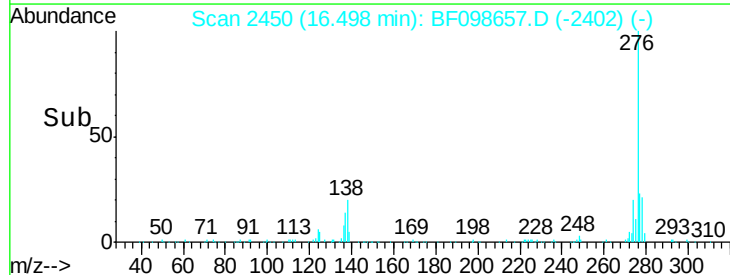
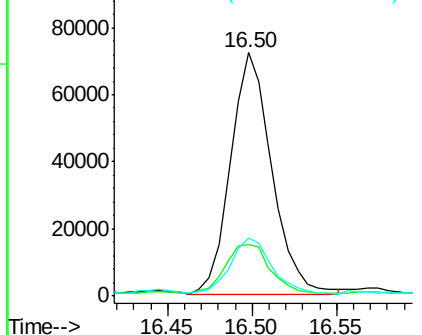


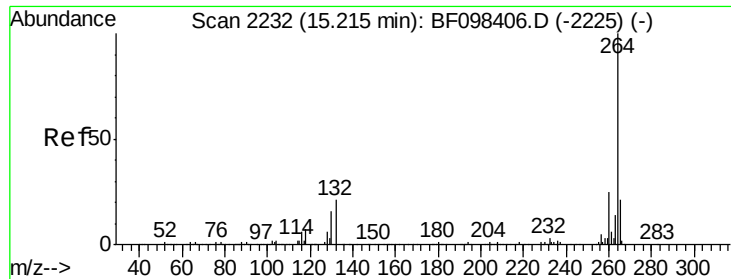
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.75 ng
 RT: 16.50 min Scan# 2450
 Delta R.T. -0.02 min
 Lab File: BF098657.D
 Acq: 20 Sep 2017 13:54

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.5	27.8	41.6#
277	23.5	20.2	30.4



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

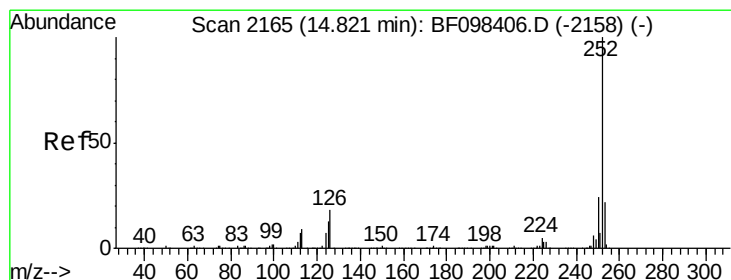
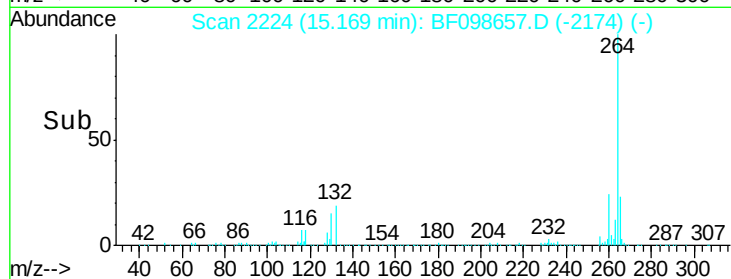
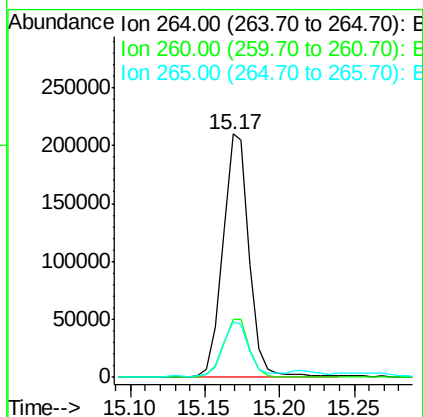
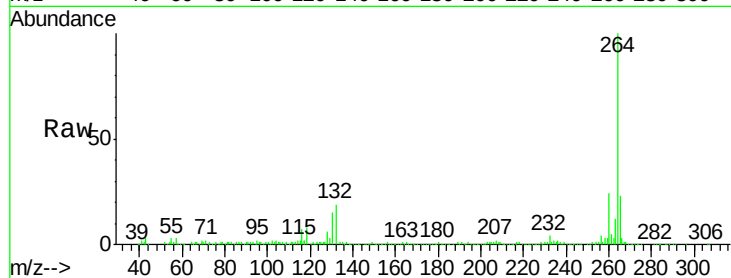




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.17 min Scan# 2224
Delta R.T. -0.01 min
Lab File: BF098657.D
Acq: 20 Sep 2017 13:54

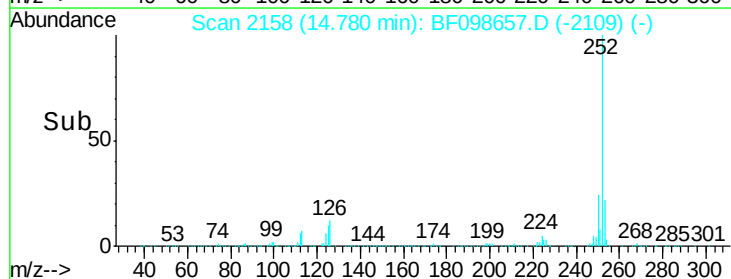
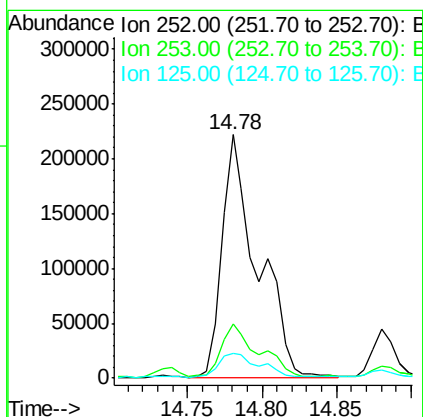
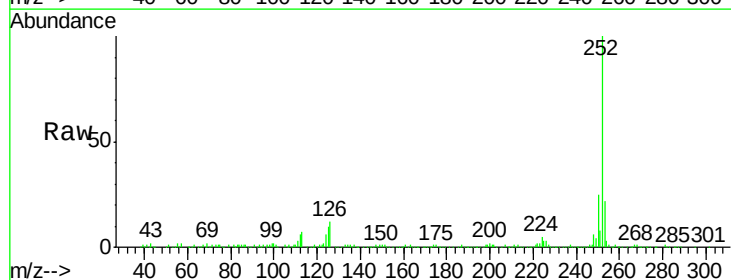
Instrument :
BNA_F
ClientSampleId :

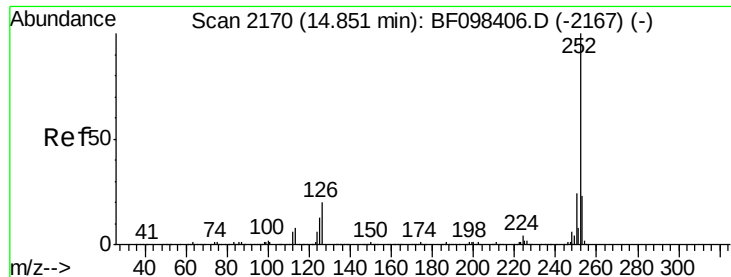
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	22.9	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 22.35 ng
RT: 14.78 min Scan# 2158
Delta R.T. -0.01 min
Lab File: BF098657.D
Acq: 20 Sep 2017 13:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.1	27.1
125	10.2	9.8	14.8

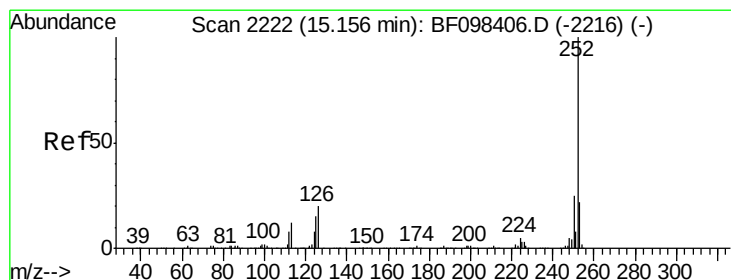
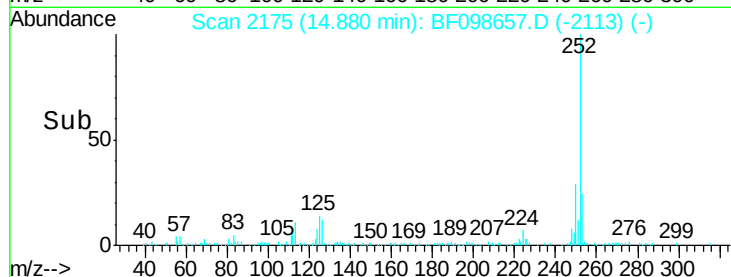
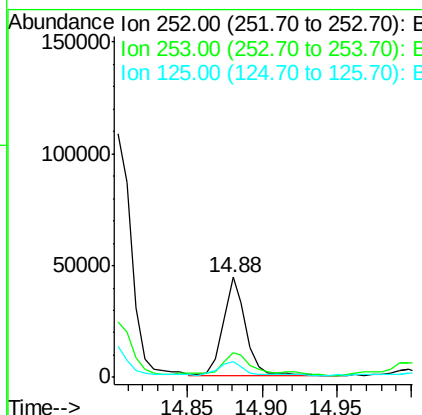
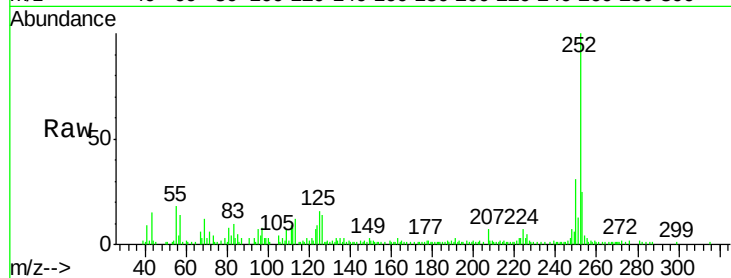




#88
Benzo(k)fluoranthene
Concen: 3.04 ng
RT: 14.88 min Scan# 2175
Delta R.T. 0.06 min
Lab File: BF098657.D
Acq: 20 Sep 2017 13:54

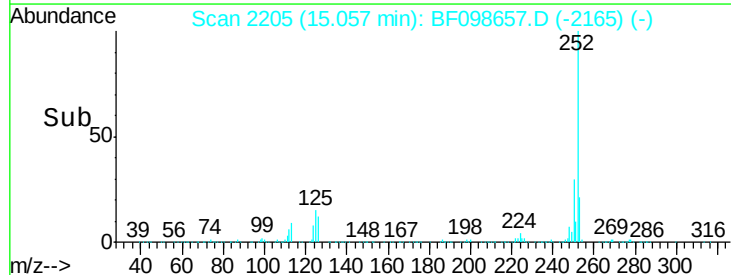
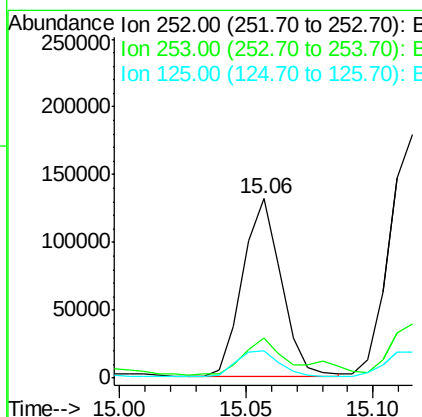
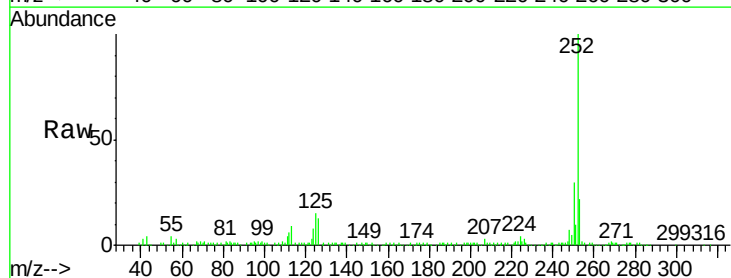
Instrument :
BNA_F
ClientSampleId :

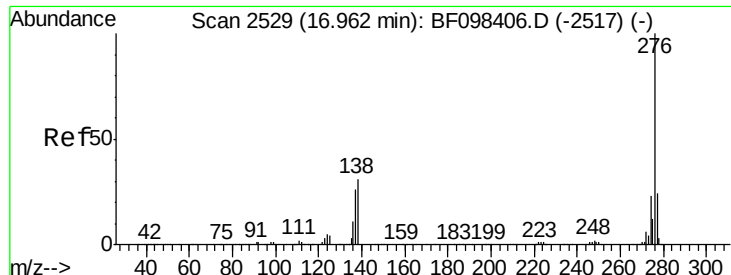
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.4	27.6
125	16.3	13.1	19.7



#89
Benzo(a)pyrene
Concen: 9.70 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.06 min
Lab File: BF098657.D
Acq: 20 Sep 2017 13:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	15.5	11.0	16.4

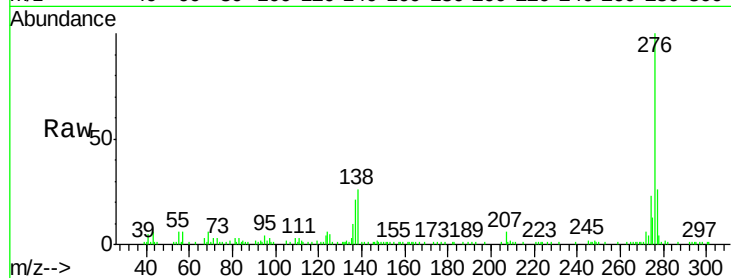




#91
 Benzo(a,h,i)perylene
 Concen: 10.31 ng
 RT: 16.90 min Scan# 2518
 Delta R.T. -0.01 min
 Lab File: BF098657.D
 Acq: 20 Sep 2017 13:54

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.6	18.6	28.0
138	26.3	25.4	38.0



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

