

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100317\
 Data File : BF099055.D
 Acq On : 4 Oct 2017 2:48
 Operator : SJ/JU
 Sample : I5532-05 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 04 03:45:02 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	6.87	152	113845	20.00	ng	-0.05
21) Naphthalene-d8	8.16	136	420746	20.00	ng	-0.05
38) Acenaphthene-d10	9.91	164	150891	20.00	ng	-0.05
63) Phenanthrene-d10	11.40	188	245166	20.00	ng	-0.05
75) Chrysene-d12	14.03	240	252141	20.00	ng	-0.05
86) Perylene-d12	15.52	264	241197	20.00	ng	-0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	141407	19.77	ng	-0.06
7) Phenol-d6	6.49	99	167097	18.94	ng	-0.05
23) Nitrobenzene-d5	7.43	82	97131	14.80	ng	-0.06
41) 2,4,6-Tribromophenol	10.70	330	9112	7.38	ng	-0.05
44) 2-Fluorobiphenyl	9.23	172	163305	18.07	ng	-0.05
78) Terphenyl-d14	12.97	244	128449	11.59	ng	-0.06

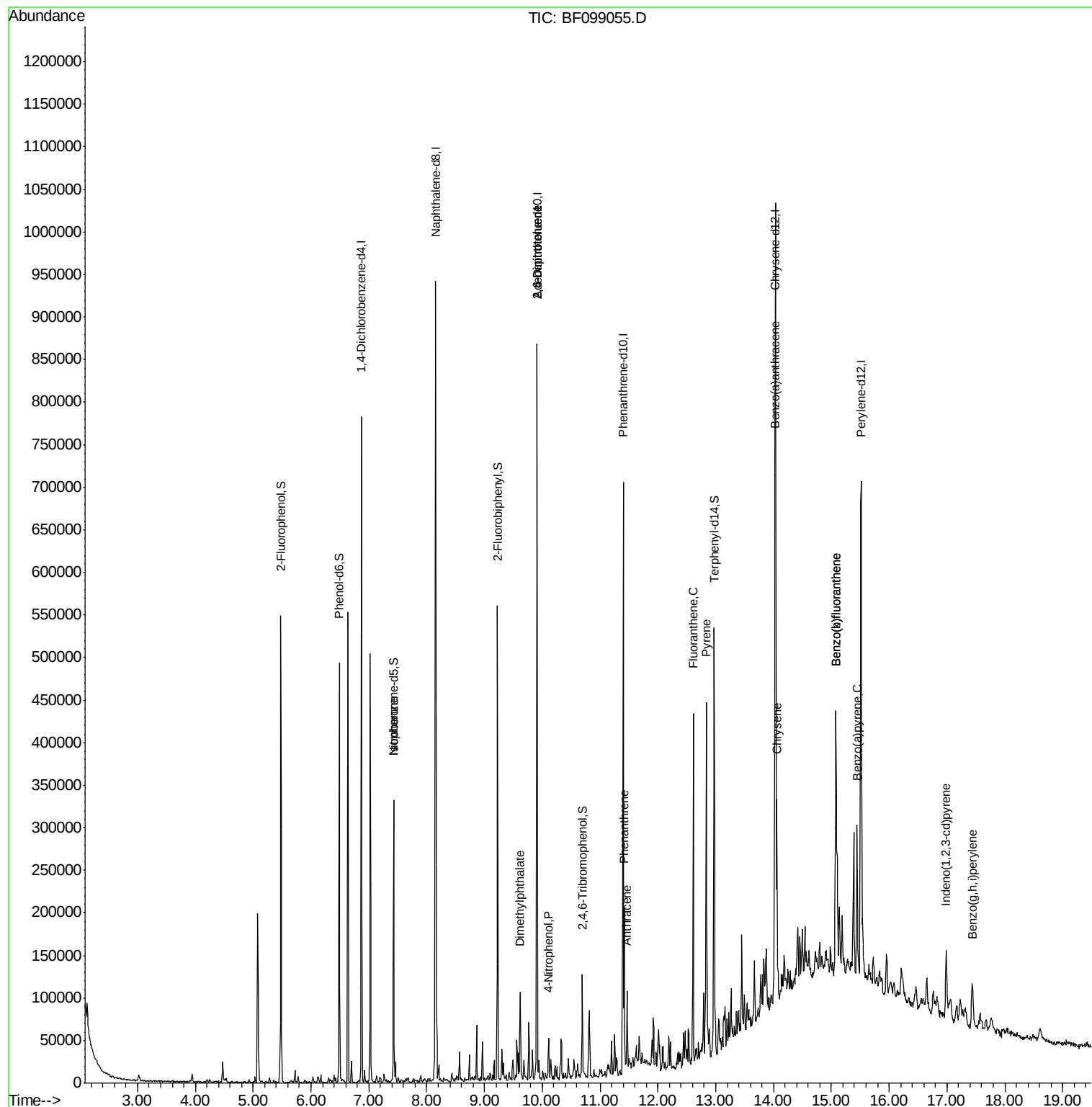
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.43	82	94602	6.97	ng	# 64
49) Dimethylphthalate	9.62	163	27540	2.42	ng	99
50) 2,6-Dinitrotoluene	9.91	165	19752	7.97	ng	# 26
55) 4-Nitrophenol	10.11	139	5100	2.09	ng	# 9
56) 2,4-Dinitrotoluene	9.91	165	19752	6.14	ng	# 24
70) Phenanthrene	11.42	178	68626	5.23	ng	98
71) Anthracene	11.47	178	30030	2.24	ng	99
74) Fluoranthene	12.61	202	149447	11.25	ng	97
77) Pyrene	12.84	202	154563	8.04	ng	98
80) Benzo(a)anthracene	14.02	228	99386	6.51	ng	96
82) Chrysene	14.06	228	93220	6.41	ng	96
85) Indeno(1,2,3-cd)pyrene	16.99	276	48688	4.19	ng	97
87) Benzo(b)fluoranthene	15.08	252	210443	14.19	ng	# 97
88) Benzo(k)fluoranthene	15.08	252	210443	14.37	ng	97
89) Benzo(a)pyrene	15.44	252	76976	5.65	ng	# 95
91) Benzo(g,h,i)perylene	17.44	276	39593	3.68	ng	92

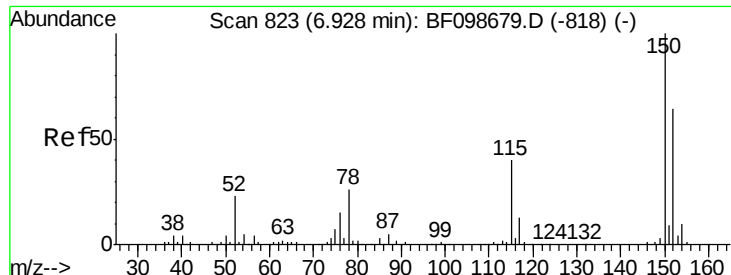
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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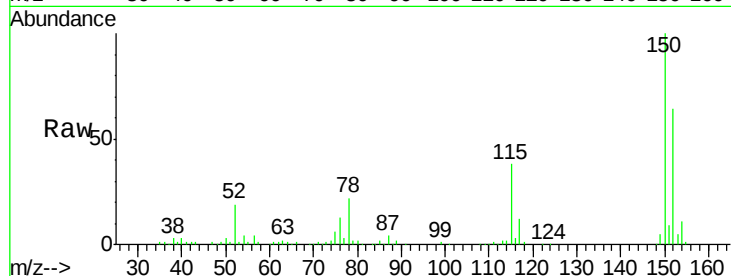


#1

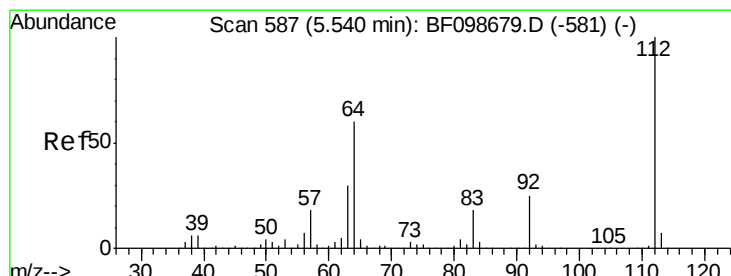
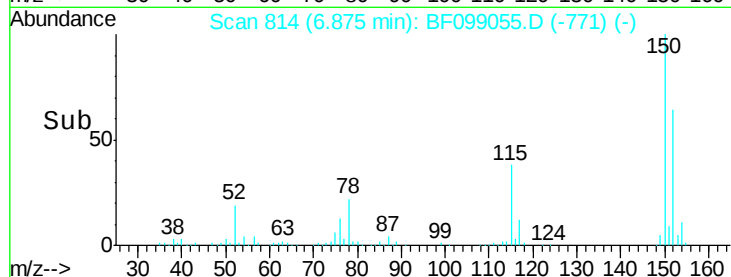
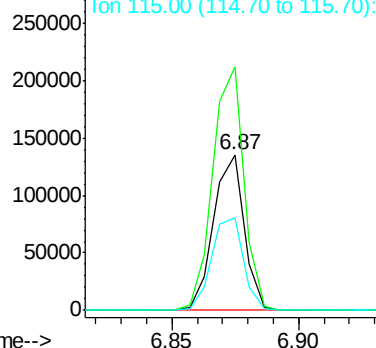
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.05 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 113845
Ion Ratio Lower Upper
152 100
150 156.8 124.6 186.8
115 59.9 50.1 75.1



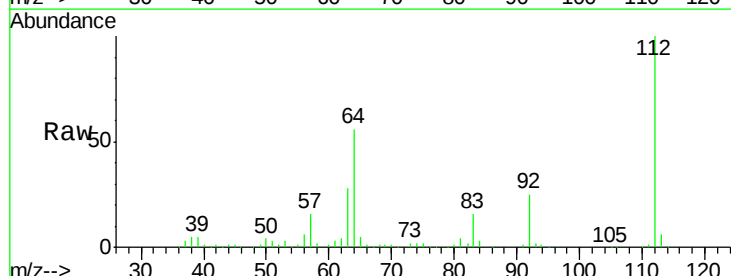
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



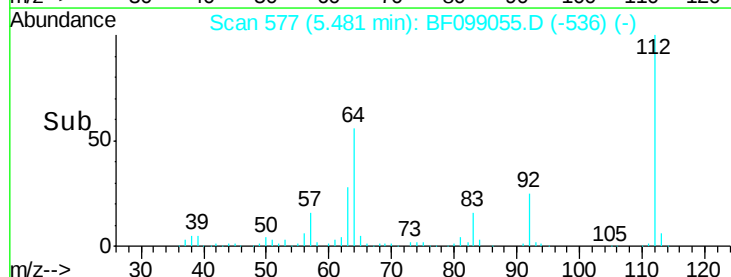
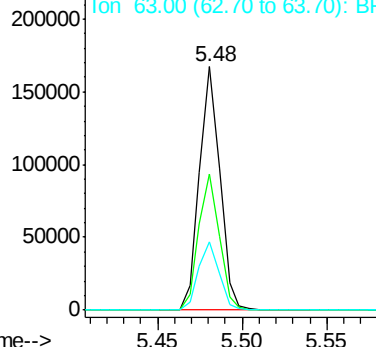
#5

2-Fluorophenol
Concen: 19.77 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.06 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Tgt Ion:112 Resp: 141407
Ion Ratio Lower Upper
112 100
64 55.9 47.9 71.9
63 27.9 23.7 35.5



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





#7

Phenol-d6

Concen: 18.94 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.05 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

Instrument :

BNA_F

ClientSampleId :

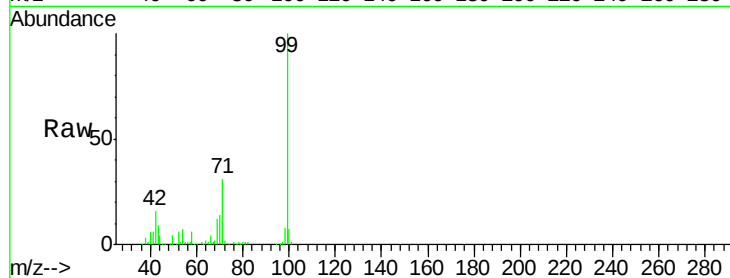
Tot Ion: 99 Resp: 167097

Ion Ratio Lower Upper

99 100

42 16.0 14.5 21.7

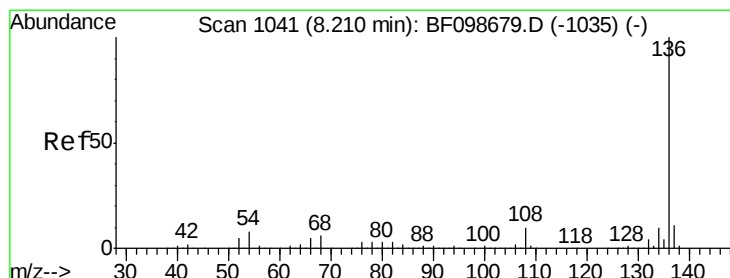
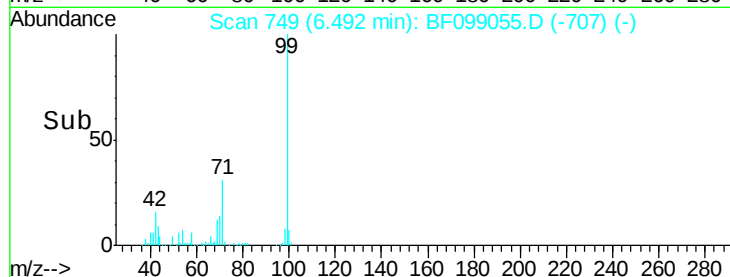
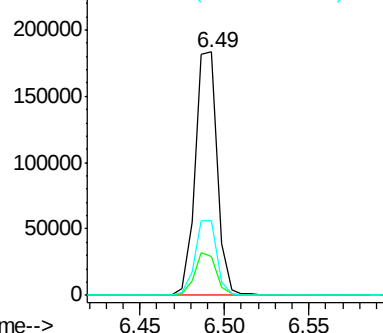
71 30.6 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.05 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

Tgt Ion: 136 Resp: 420746

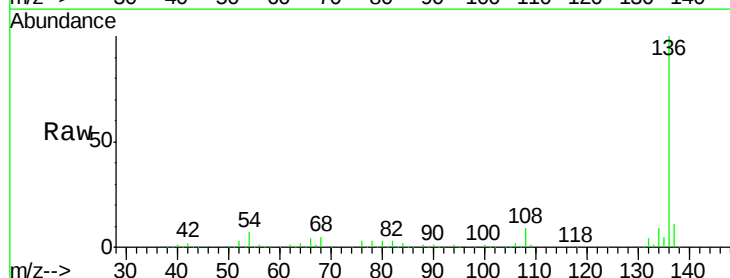
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.1 6.6 9.8

68 5.5 5.0 7.4

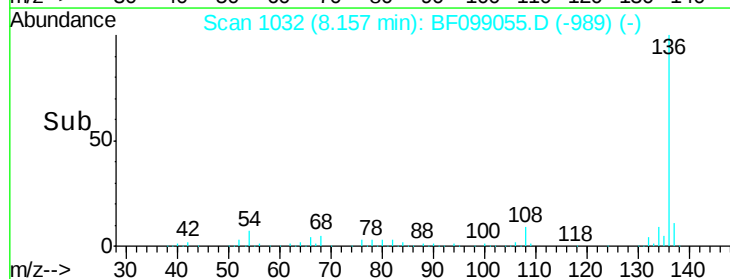
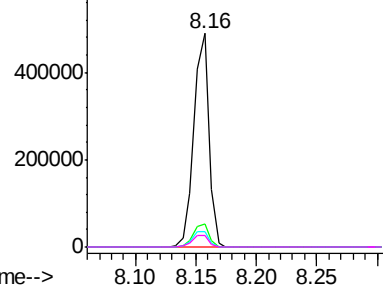


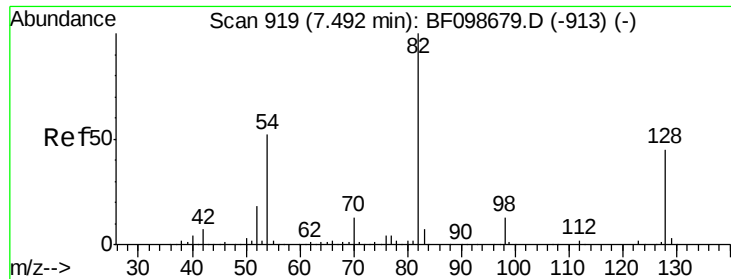
Abundance Ion 136.00 (135.70 to 136.70): E

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

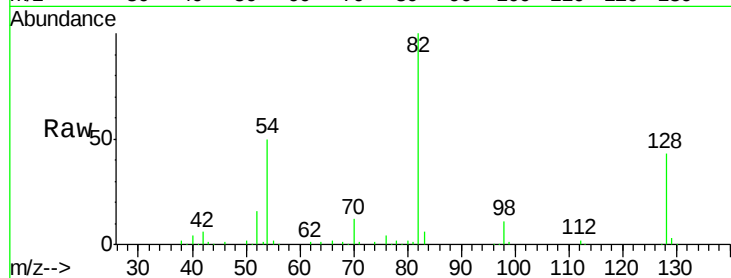




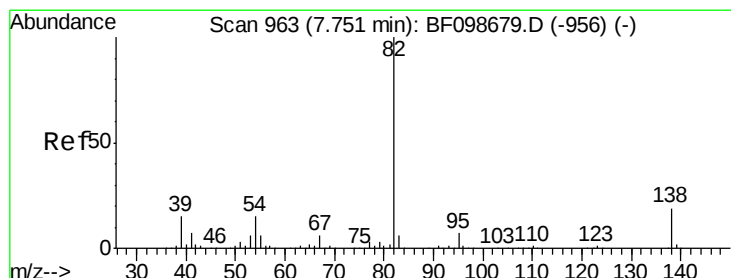
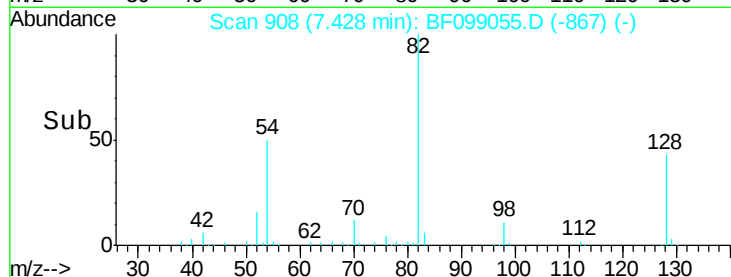
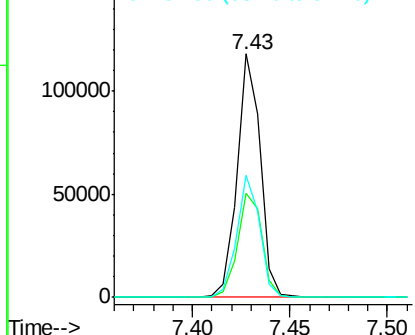
#23
Nitrobenzene-d5
Concen: 14.80 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.06 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	97131
Ion Ratio	100	Lower	Upper
128	42.6	36.1	54.1
54	49.9	41.4	62.2

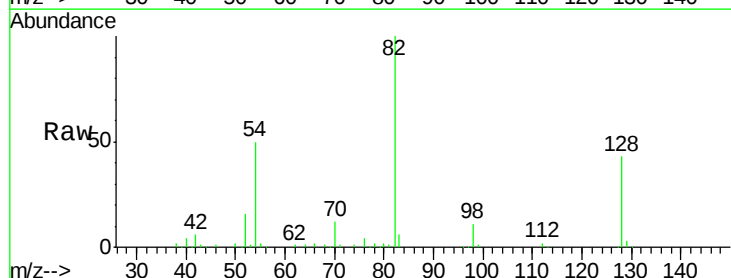


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): BF0
Ion 54.00 (53.70 to 54.70): BF0

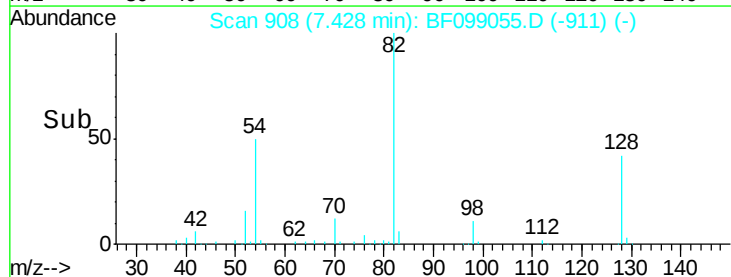
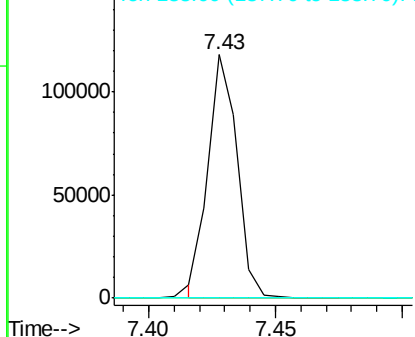


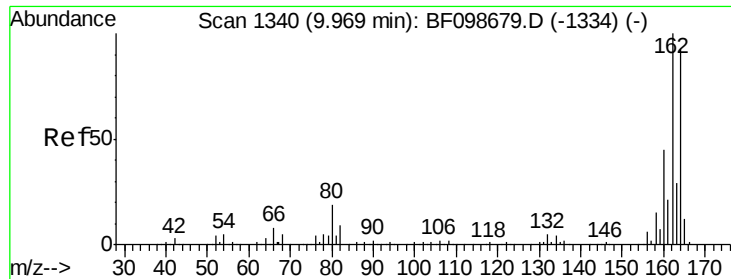
#25
Isophorone
Concen: 6.97 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.32 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Tgt Ion	82	Resp	94602
Ion Ratio	100	Lower	Upper
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: 20.00 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.05 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

Instrument :

BNA_F

ClientSampleId :

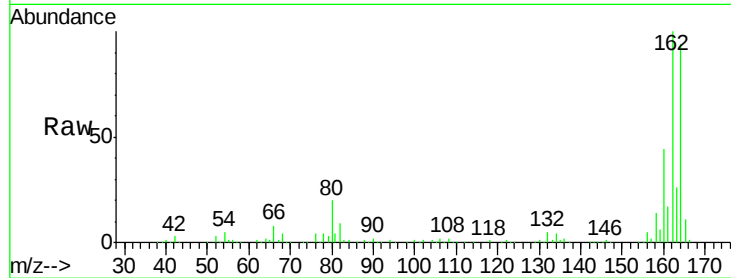
Tot Ion:164 Resp: 150891

Ion Ratio Lower Upper

164 100

162 105.9 86.1 129.1

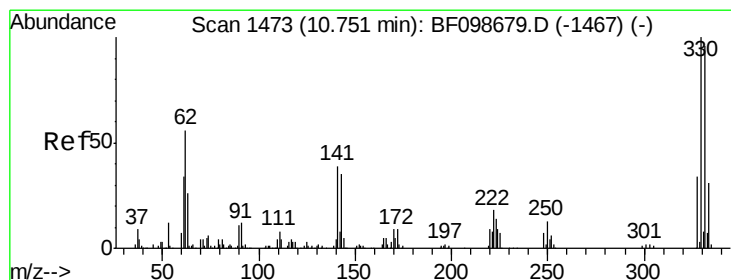
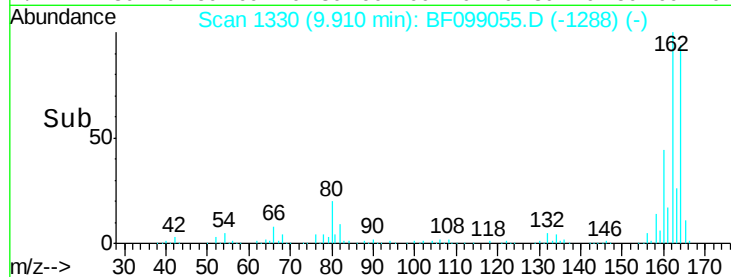
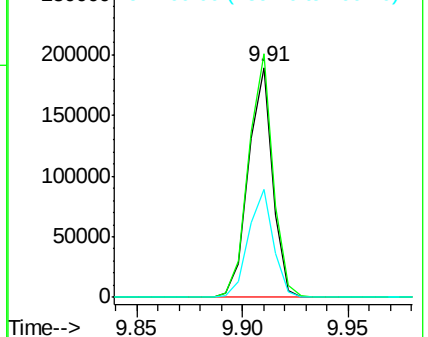
160 47.0 38.3 57.5



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: 7.38 ng

RT: 10.70 min Scan# 1464

Delta R.T. -0.05 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

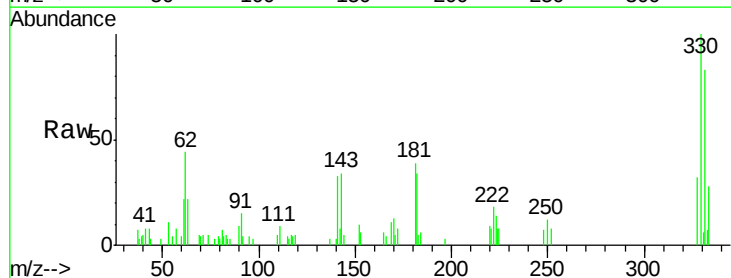
Tgt Ion:330 Resp: 9112

Ion Ratio Lower Upper

330 100

332 96.4 77.0 115.6

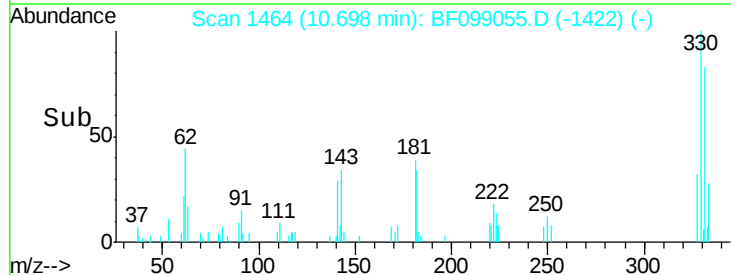
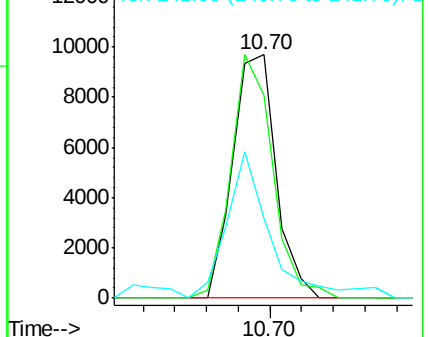
141 61.3 29.9 44.9#

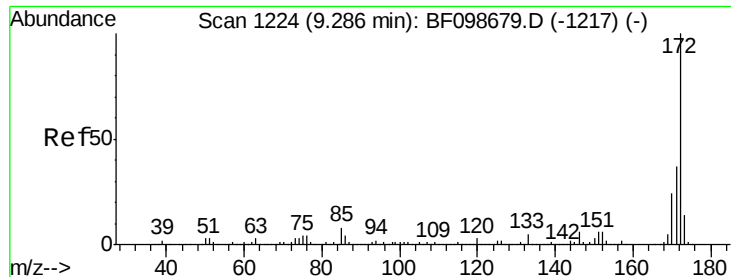


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

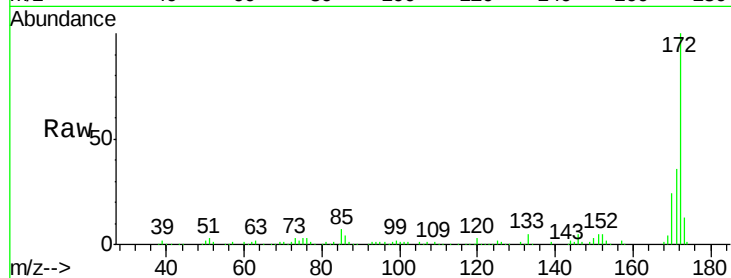




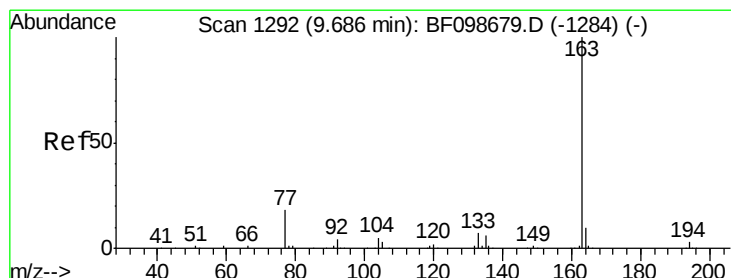
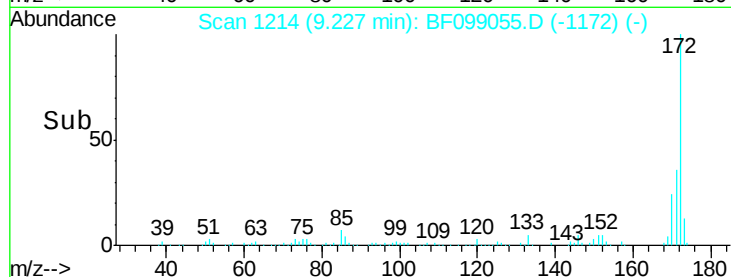
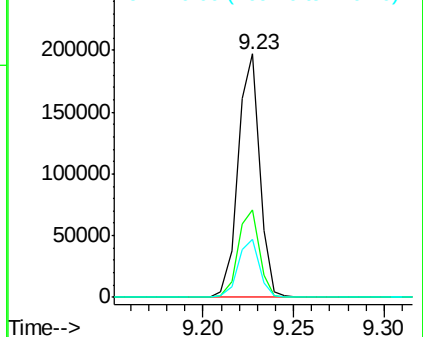
#44
2-Fluorobiphenyl
Concen: 18.07 ng
RT: 9.23 min Scan# 1214
Delta R.T. -0.05 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 163305
Ion Ratio Lower Upper
172 100
171 36.1 29.7 44.5
170 23.7 19.6 29.4

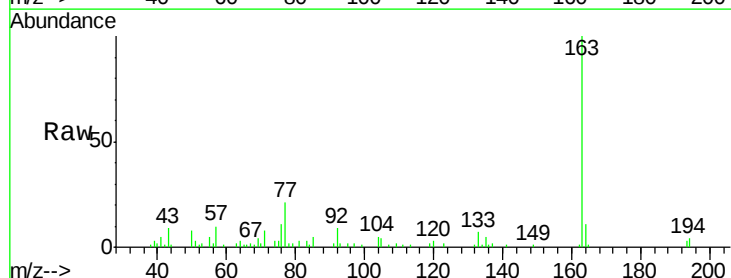


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

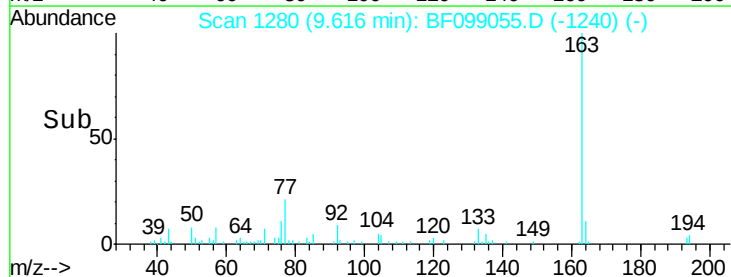
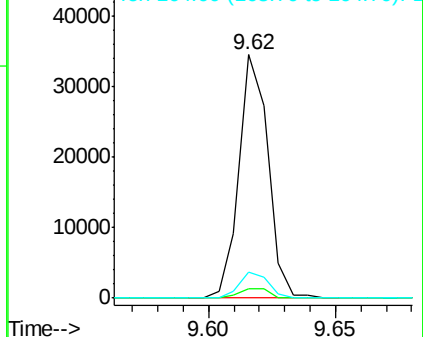


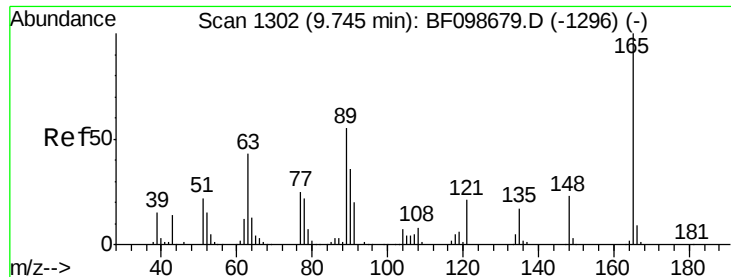
#49
Dimethylphthalate
Concen: 2.42 ng
RT: 9.62 min Scan# 1280
Delta R.T. -0.06 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Tgt Ion:163 Resp: 27540
Ion Ratio Lower Upper
163 100
194 3.7 2.7 4.1
164 10.7 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





#50

2,6-Dinitrotoluene

Concen: 7.97 ng

RT: 9.91 min Scan# 1330

Delta R.T. 0.17 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

Instrument :

BNA_F

ClientSampleId :

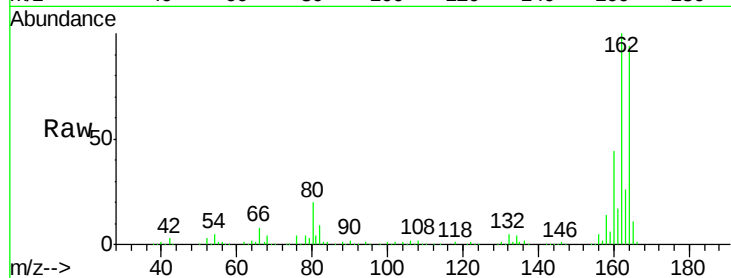
Tot Ion:165 Resp: 19752

Ion Ratio Lower Upper

165 100

63 1.8 44.7 67.1#

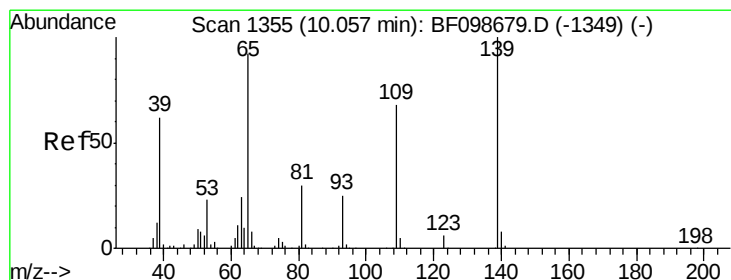
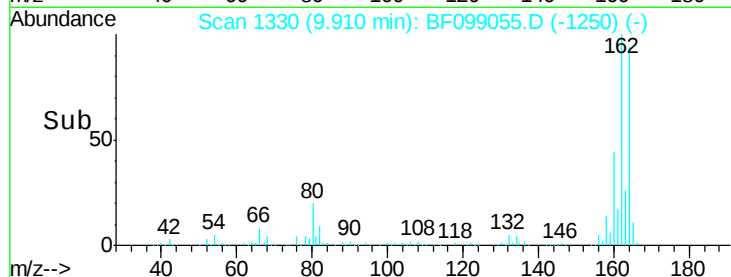
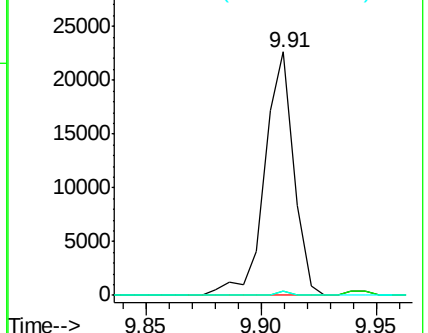
89 1.5 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#55

4-Nitrophenol

Concen: 2.09 ng

RT: 10.11 min Scan# 1364

Delta R.T. 0.05 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

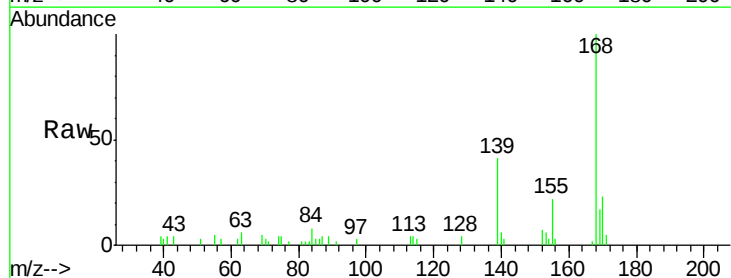
Tgt Ion:139 Resp: 5100

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

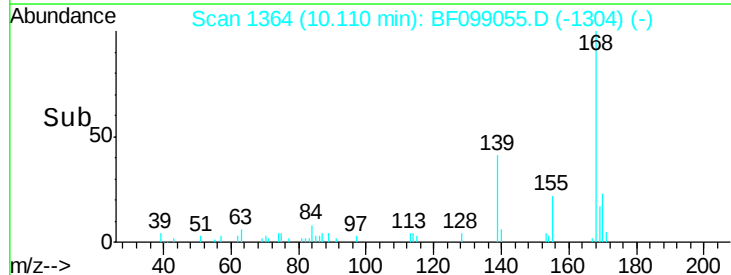
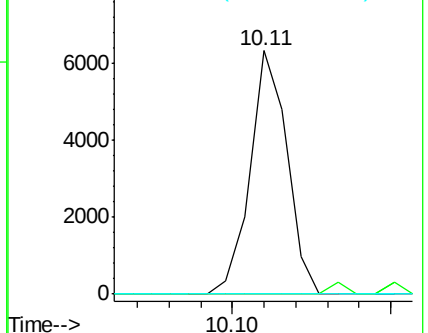
65 0.0 72.6 112.6#

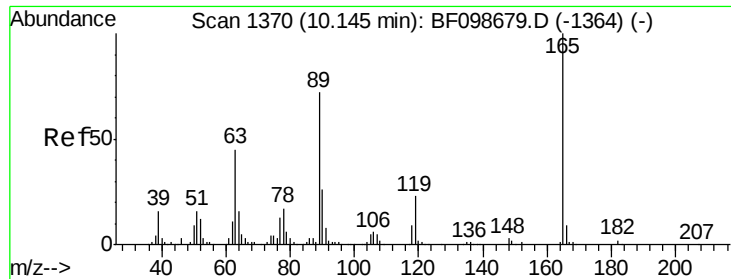


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

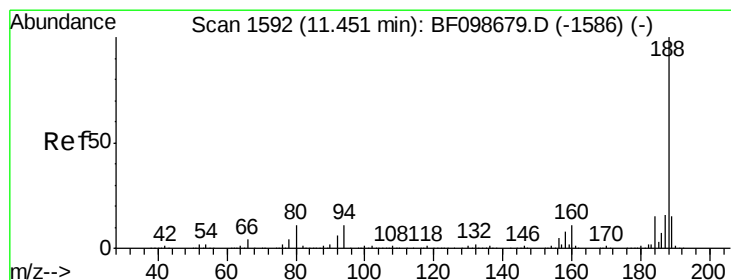
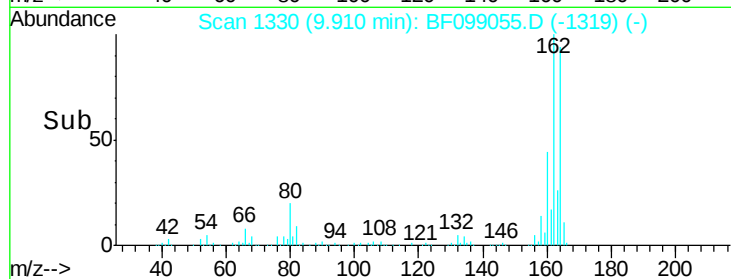
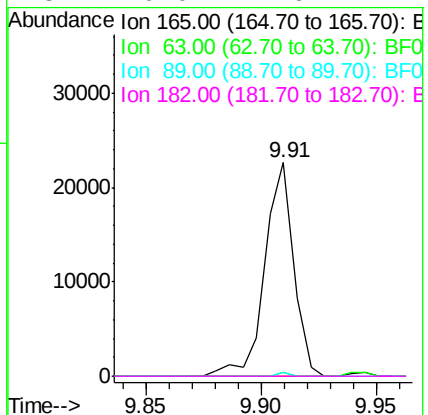
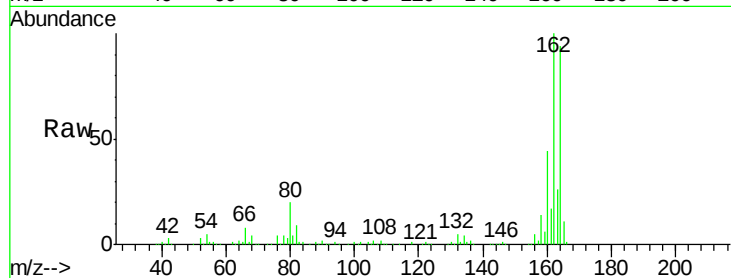




#56
 2,4-Dinitrotoluene
 Concen: 6.14 ng
 RT: 9.91 min Scan# 1330
 Delta R.T. -0.24 min
 Lab File: BF099055.D
 Acq: 4 Oct 2017 2:48

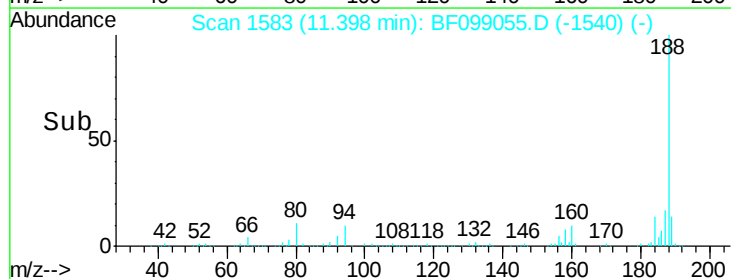
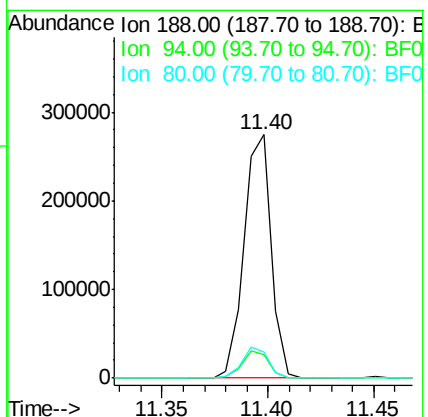
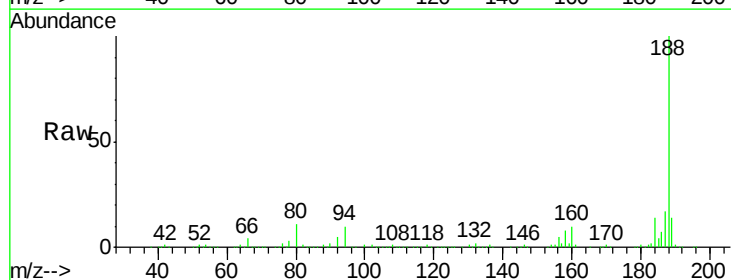
Instrument :
 BNA_F
 ClientSampleId :

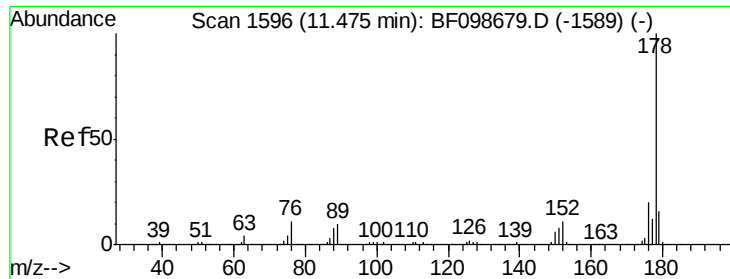
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	36.4	54.6#
89	1.5	57.8	86.6#
182	0.0	1.6	2.4#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.05 min
 Lab File: BF099055.D
 Acq: 4 Oct 2017 2:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.5	12.7
80	10.5	9.2	13.8

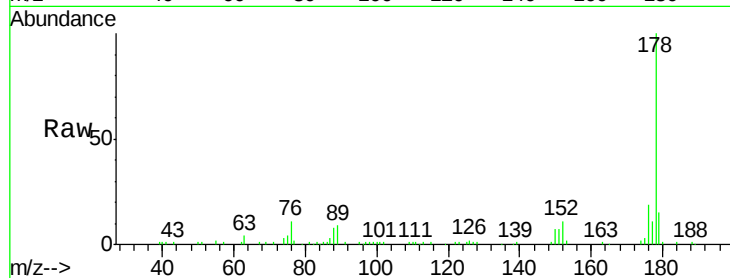




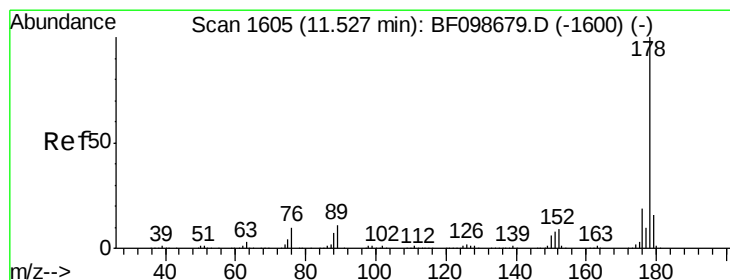
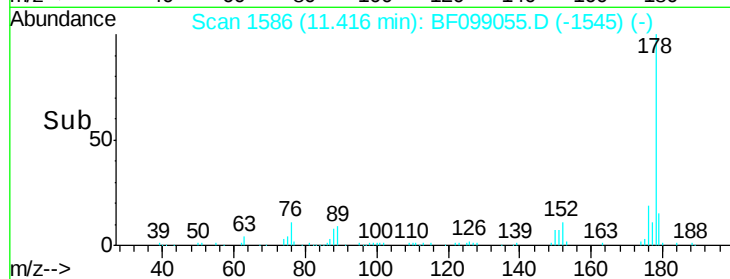
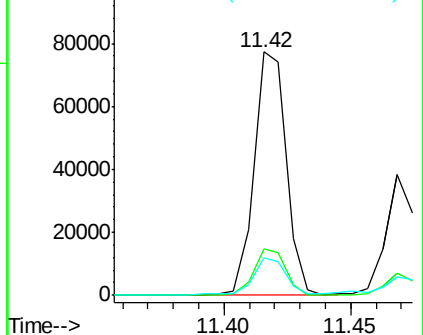
#70
Phenanthrene
Concen: 5.23 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.06 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Instrument :
BNA_F
ClientSampled :

Tot Ion:178 Resp: 68626
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.8
179 15.4 13.0 19.6

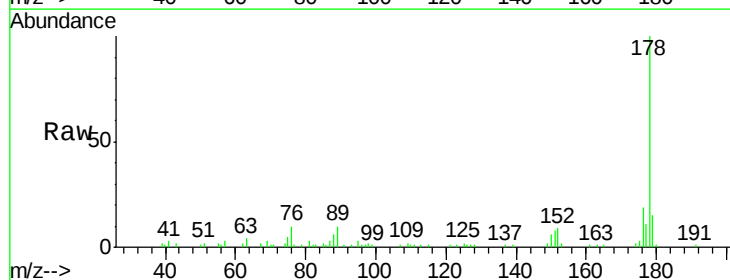


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

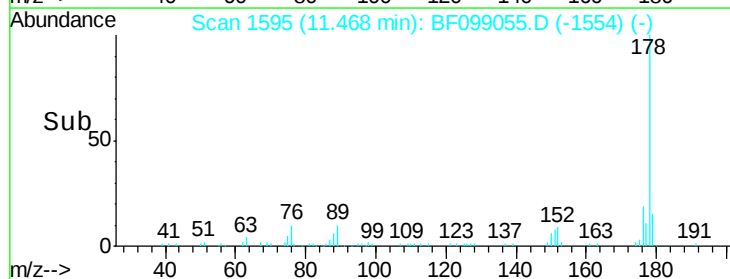
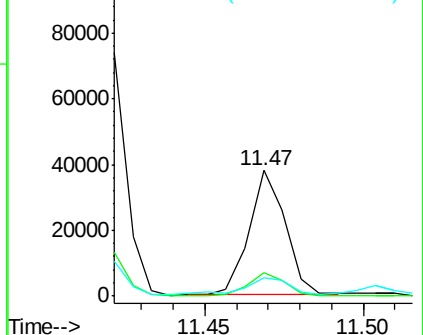


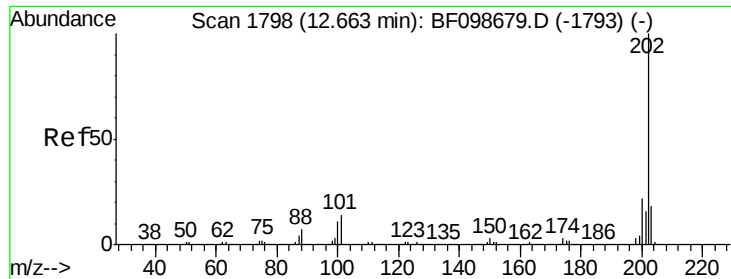
#71
Anthracene
Concen: 2.24 ng
RT: 11.47 min Scan# 1595
Delta R.T. -0.06 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Tgt Ion:178 Resp: 30030
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 14.9 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

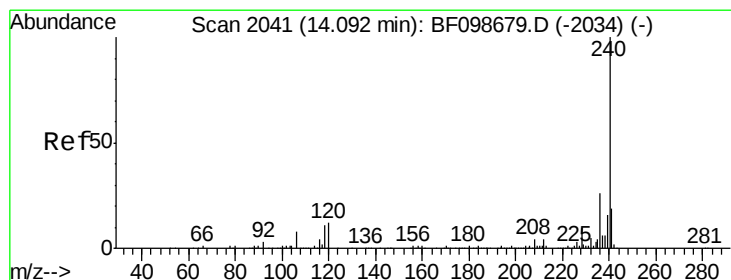
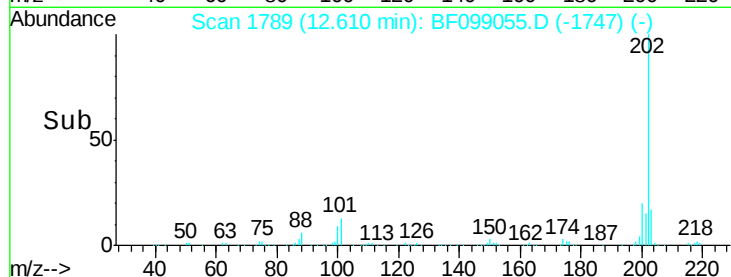
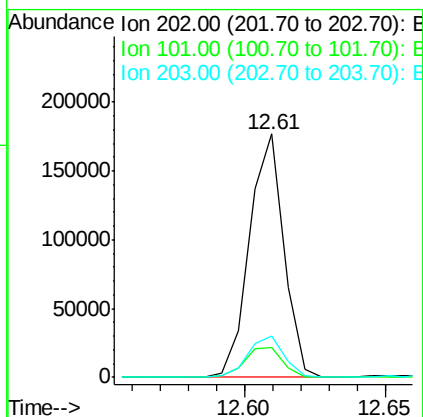
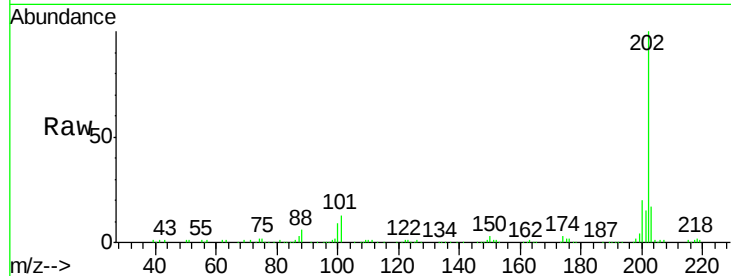




#74
Fluoranthene
Concen: 11.25 ng
RT: 12.61 min Scan# 1789
Delta R.T. -0.05 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

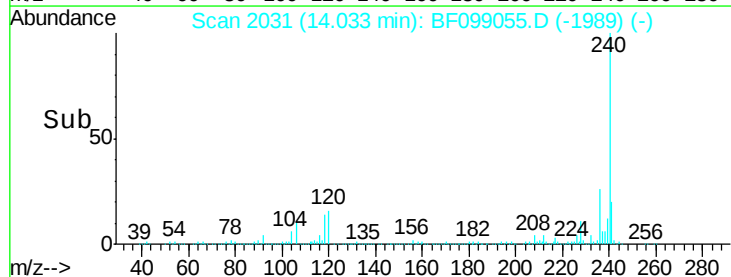
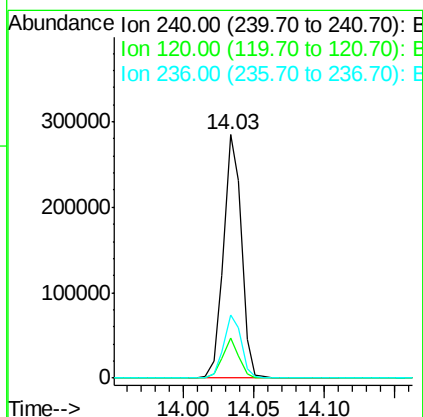
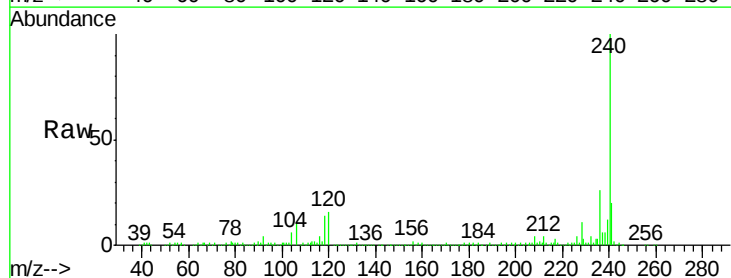
Instrument :
BNA_F
ClientSampleId :

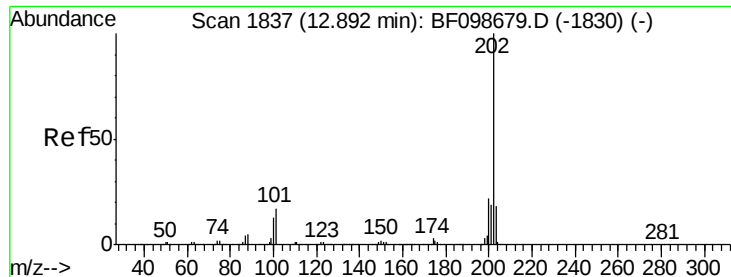
Tot Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	34.1
203	17.1	0.0	38.1



#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.05 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.4	9.5	14.3#
236	25.9	20.7	31.1





#77

Pvrene

Concen: 8.04 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.05 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

Instrument :

BNA_F

ClientSampleId :

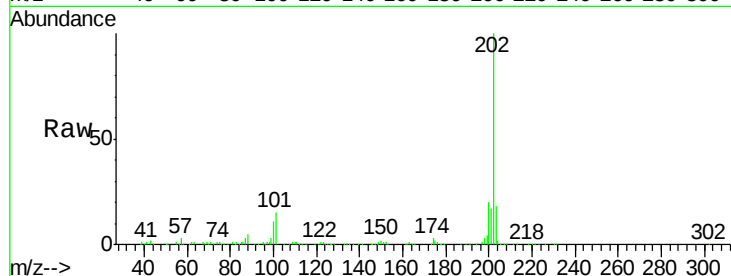
Tot Ion:202 Resp: 154563

Ion Ratio Lower Upper

202 100

200 20.2 17.4 26.2

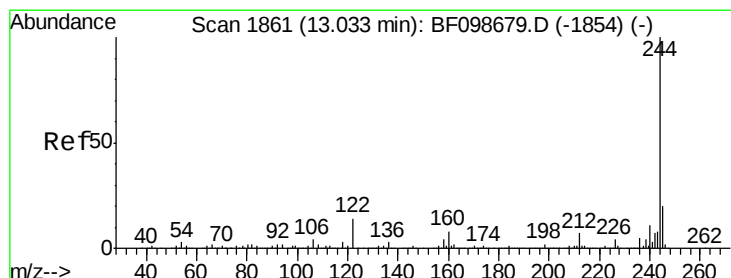
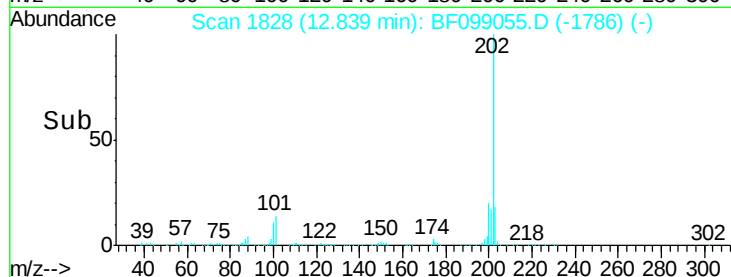
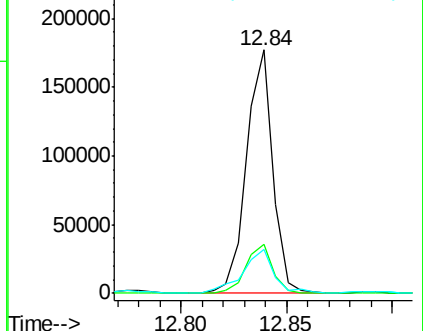
203 17.9 14.3 21.5



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: 11.59 ng

RT: 12.97 min Scan# 1851

Delta R.T. -0.06 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

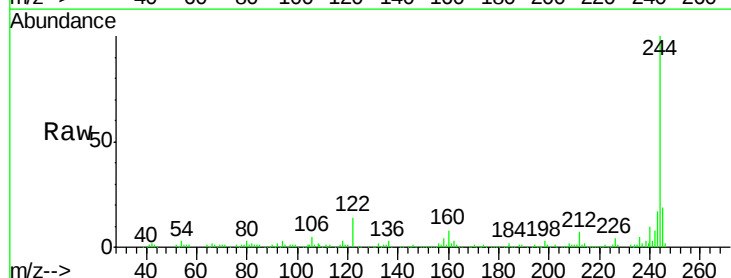
Tgt Ion:244 Resp: 128449

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.0

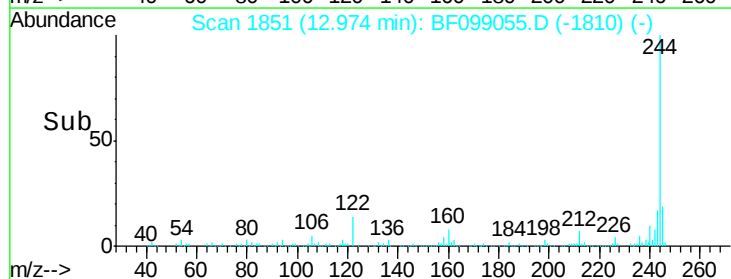
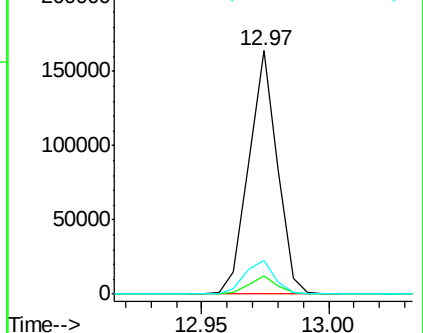
122 13.6 11.0 16.4

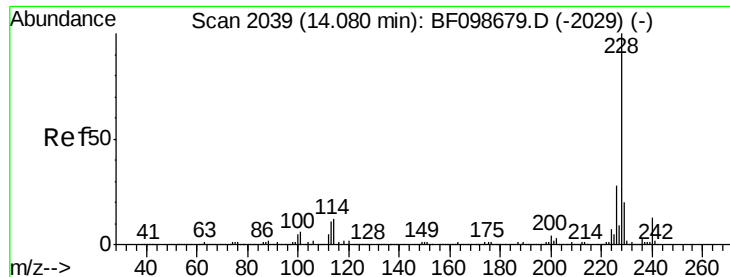


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 6.51 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.05 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

Instrument :

BNA_F

ClientSampleId :

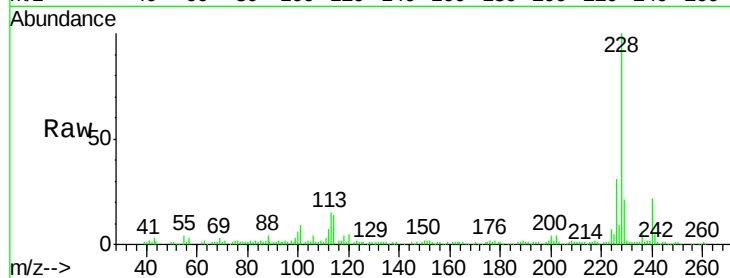
Tot Ion:228 Resp: 99386

Ion Ratio Lower Upper

228 100

226 30.6 22.6 33.8

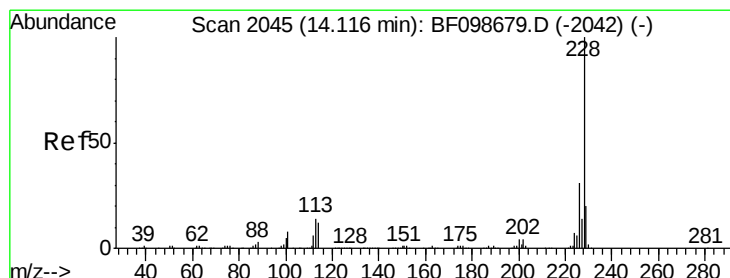
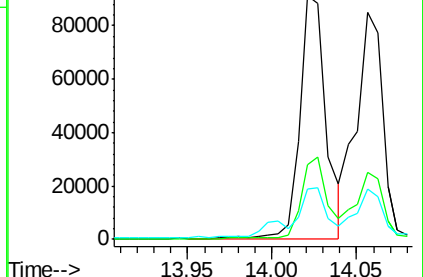
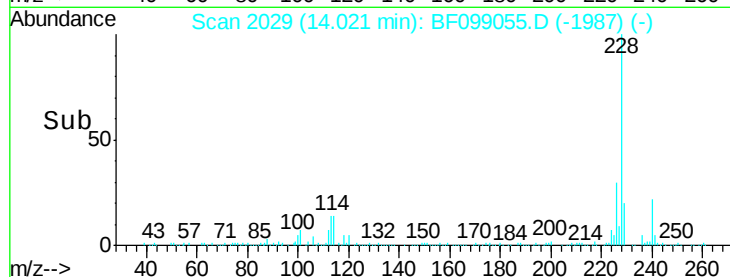
229 20.9 15.8 23.6



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: 6.41 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.06 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

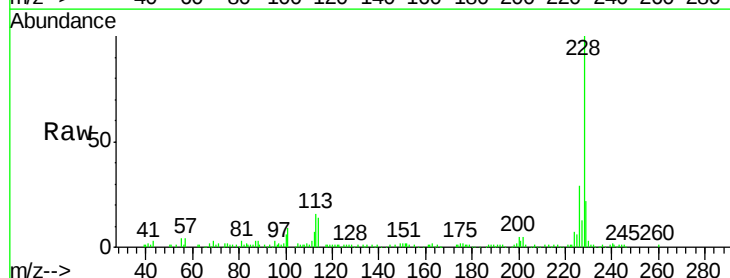
Tgt Ion:228 Resp: 93220

Ion Ratio Lower Upper

228 100

226 29.3 25.0 37.6

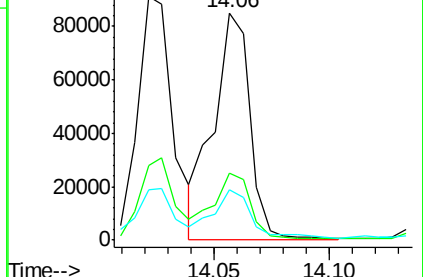
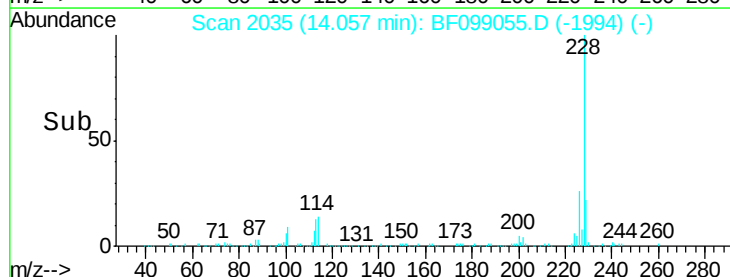
229 22.4 16.2 24.4

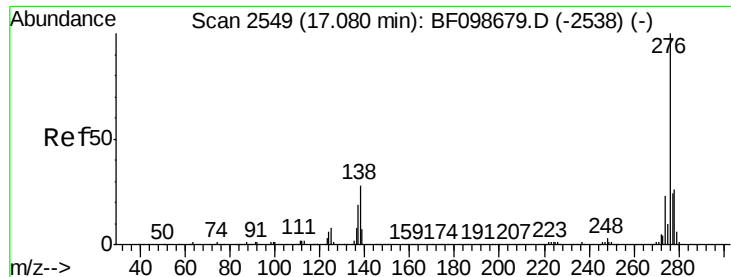


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

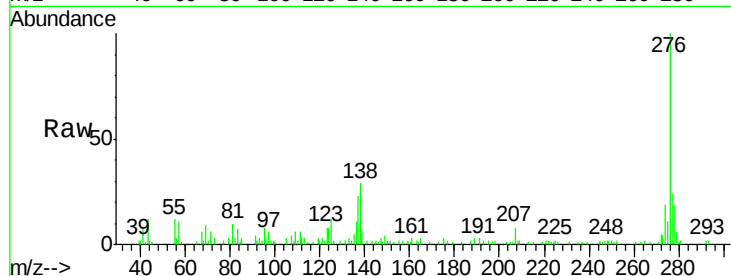




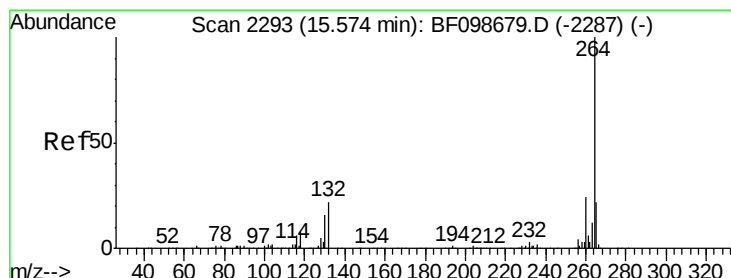
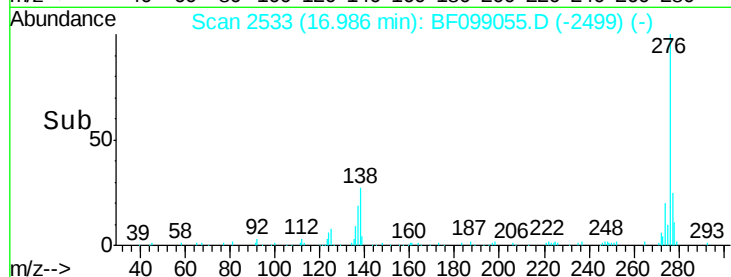
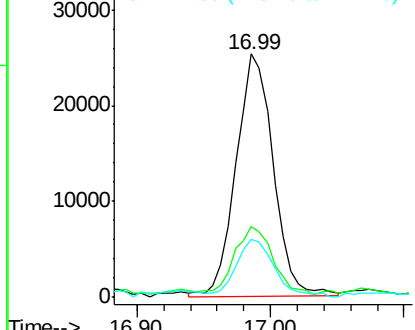
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.19 ng
RT: 16.99 min Scan# 2533
Delta R.T. -0.10 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:276 Resp: 48688
Ion Ratio Lower Upper
276 100
138 28.4 25.0 37.6
277 25.0 20.1 30.1

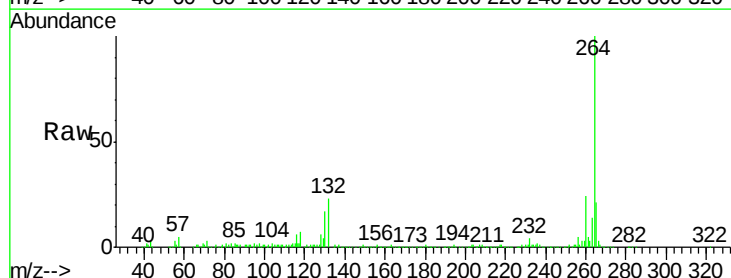


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

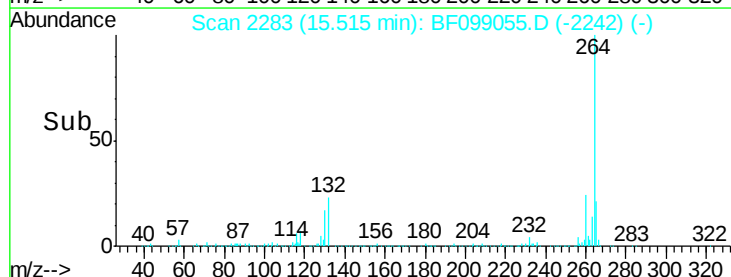
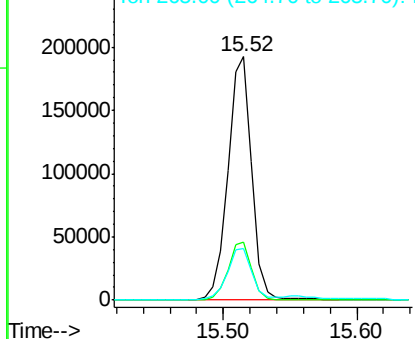


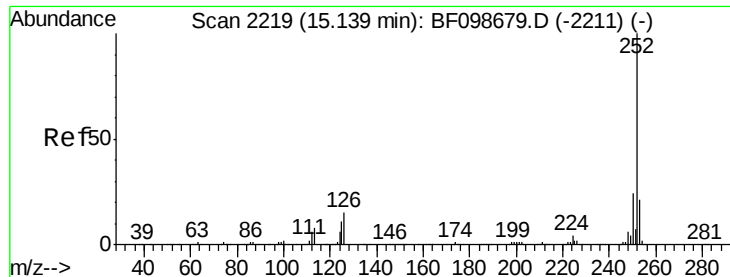
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.52 min Scan# 2283
Delta R.T. -0.06 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Tgt Ion:264 Resp: 241197
Ion Ratio Lower Upper
264 100
260 23.7 19.2 28.8
265 21.2 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 14.19 ng

RT: 15.08 min Scan# 2209

Delta R.T. -0.06 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

Instrument :

BNA_F

ClientSampleId :

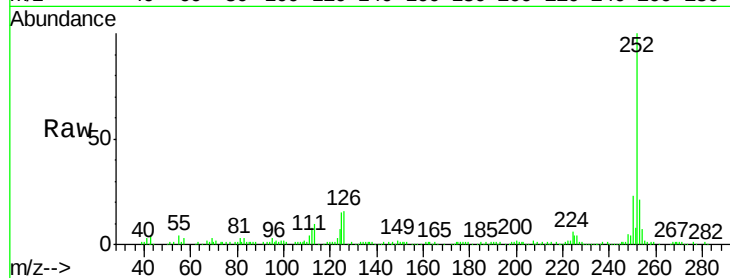
Tot Ion:252 Resp: 210443

Ion Ratio Lower Upper

252 100

253 21.2 17.0 25.6

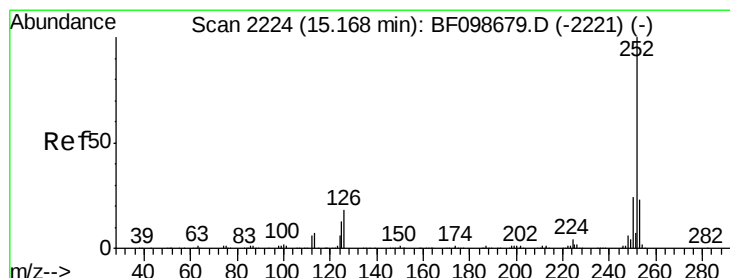
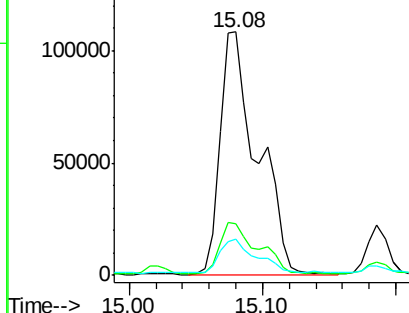
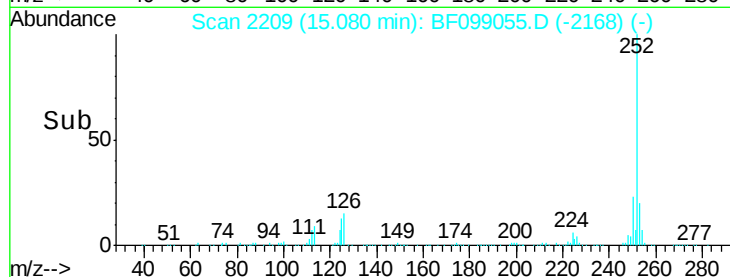
125 14.7 9.0 13.6#



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



#88

Benzo(k)fluoranthene

Concen: 14.37 ng

RT: 15.08 min Scan# 2209

Delta R.T. -0.09 min

Lab File: BF099055.D

Acq: 4 Oct 2017 2:48

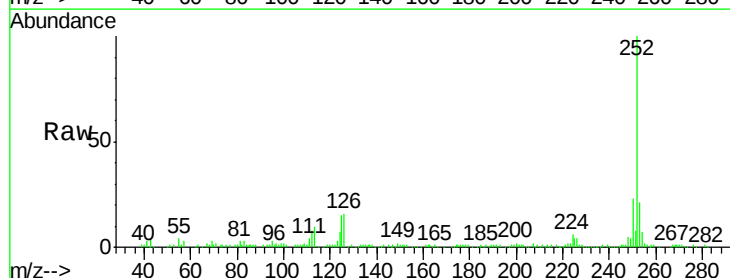
Tgt Ion:252 Resp: 210443

Ion Ratio Lower Upper

252 100

253 21.2 17.9 26.9

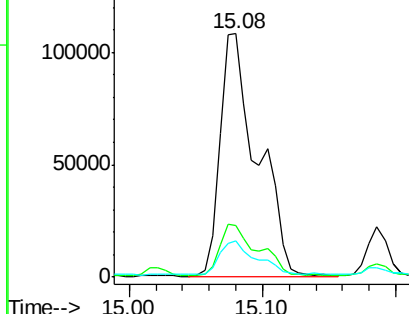
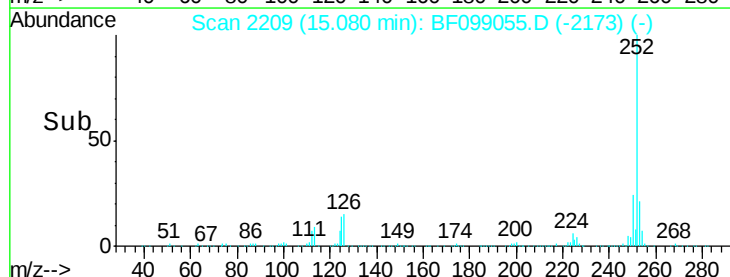
125 14.7 10.2 15.2

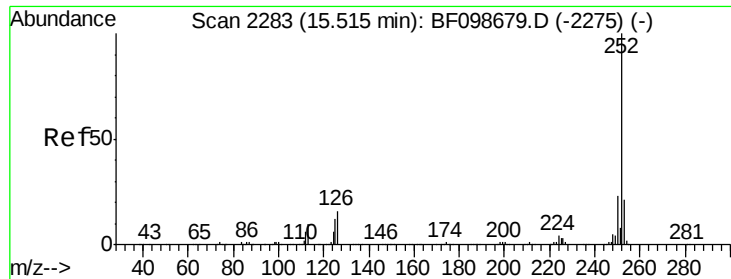


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

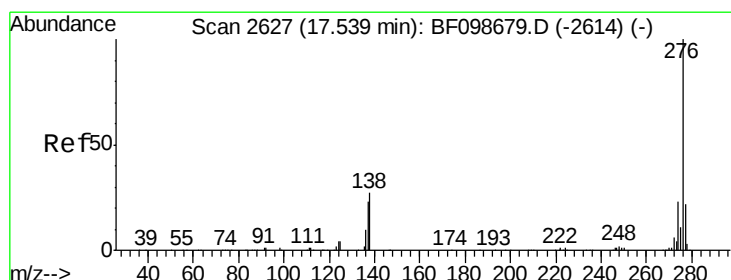
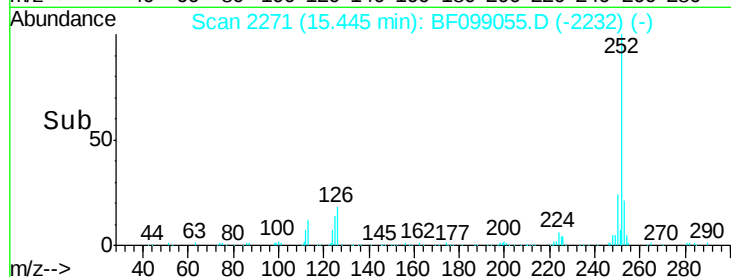
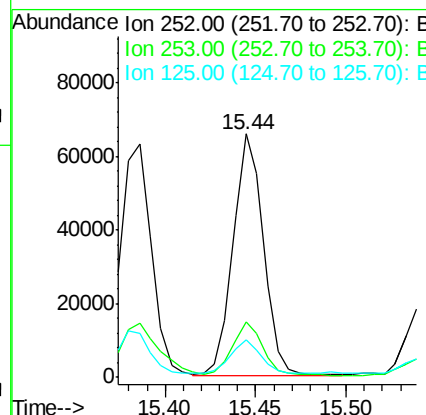
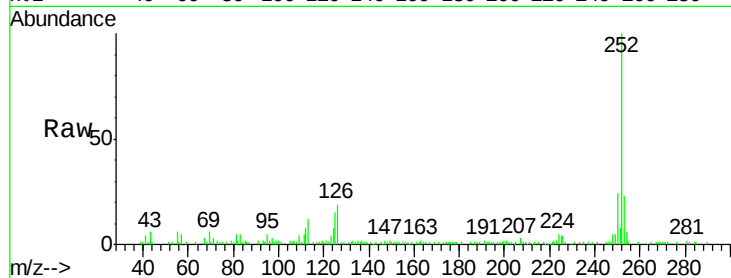




#89
Benzo(a)pyrene
Concen: 5.65 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.07 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 76976
Ion Ratio Lower Upper
252 100
253 22.7 17.1 25.7
125 15.4 9.8 14.6#



#91
Benzo(g,h,i)perylene
Concen: 3.68 ng
RT: 17.44 min Scan# 2610
Delta R.T. -0.11 min
Lab File: BF099055.D
Acq: 4 Oct 2017 2:48

Tgt Ion:276 Resp: 39593
Ion Ratio Lower Upper
276 100
277 25.6 17.9 26.9
138 31.9 21.8 32.8

