

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102817\
 Data File : BF099923.D
 Acq On : 28 Oct 2017 17:58
 Operator : SJ/JU
 Sample : I6077-05 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 30 02:00:04 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 27 15:58:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	102661	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	406601	20.00	ng	-0.01
38) Acenaphthene-d10	9.82	164	170670	20.00	ng	-0.02
63) Phenanthrene-d10	11.32	188	243819	20.00	ng	-0.02
75) Chrysene-d12	13.96	240	173892	20.00	ng	-0.03
86) Perylene-d12	15.43	264	197568	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.41	112	118099	18.06	ng	0.00
7) Phenol-d6	6.43	99	154896	19.98	ng	0.00
23) Nitrobenzene-d5	7.36	82	84982	13.46	ng	-0.01
41) 2,4,6-Tribromophenol	10.62	330	22376	14.39	ng	-0.02
44) 2-Fluorobiphenyl	9.14	172	191584	17.32	ng	-0.02
78) Terphenyl-d14	12.89	244	105585	13.27	ng	-0.03

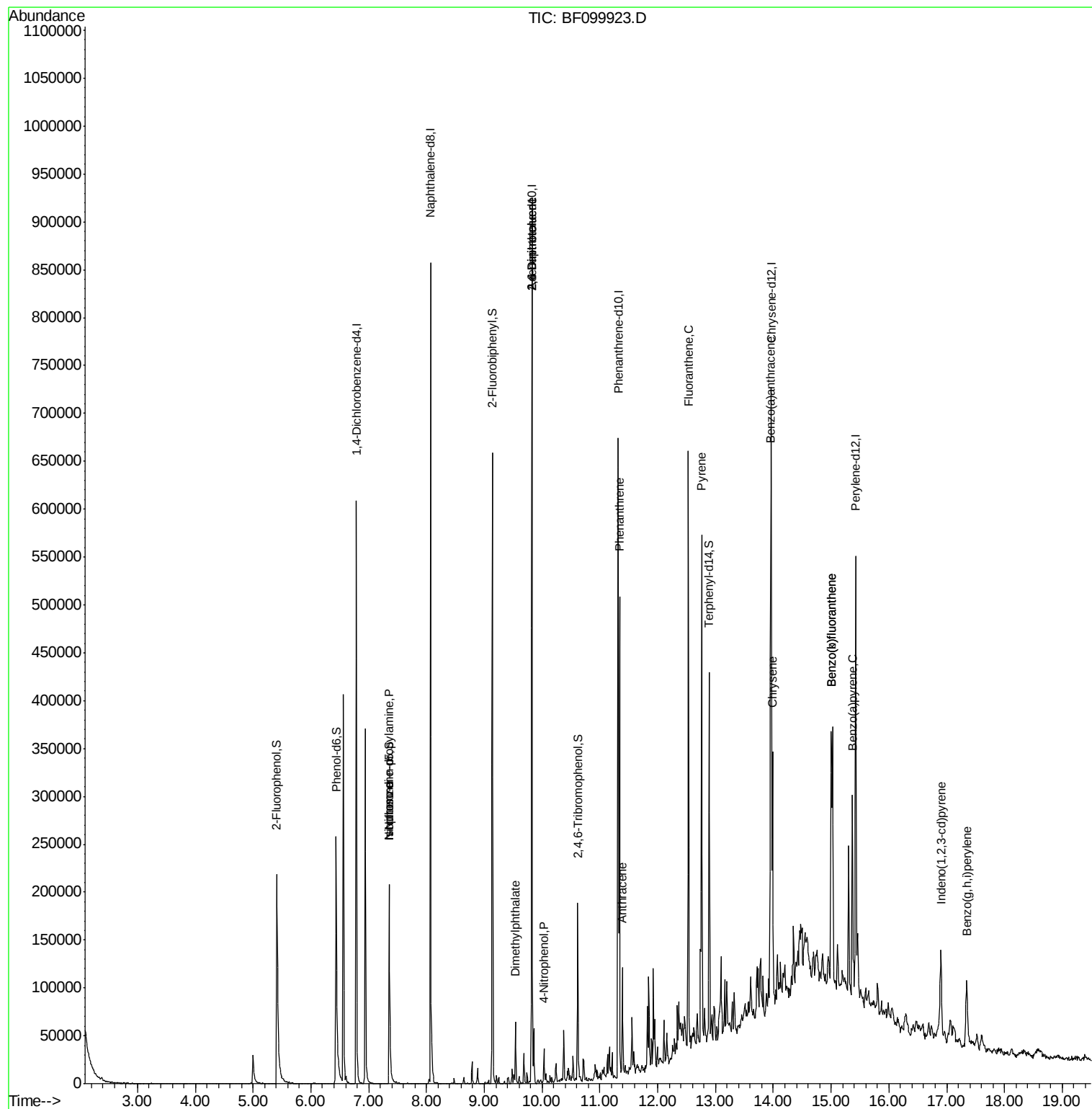
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.36	70	9981	2.197	ng	# 72
25) Isophorone	7.36	82	84982	7.415	ng	# 64
49) Dimethylphthalate	9.54	163	28447	2.105	ng	# 99
50) 2,6-Dinitrotoluene	9.82	165	22346	7.865	ng	# 25
55) 4-Nitrophenol	10.03	139	5483	3.134	ng	# 9
56) 2,4-Dinitrotoluene	9.82	165	22346	6.531	ng	# 23
70) Phenanthrene	11.34	178	201650	14.655	ng	98
71) Anthracene	11.39	178	43108	3.086	ng	96
74) Fluoranthene	12.53	202	254196	17.776	ng	96
77) Pyrene	12.76	202	215643	16.309	ng	98
80) Benzo(a)anthracene	13.95	228	108640	9.855	ng	97
82) Chrysene	13.99	228	99671	9.617	ng	99
85) Indeno(1,2,3-cd)pyrene	16.90	276	56520	5.941	ng	97
87) Benzo(b)fluoranthene	15.00	252	180084	14.435	ng	# 96
88) Benzo(k)fluoranthene	15.00	252	180084	15.308	ng	99
89) Benzo(a)pyrene	15.37	252	96988	8.655	ng	95
91) Benzo(a,h,i)perylene	17.34	276	51662	5.303	ng	92

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

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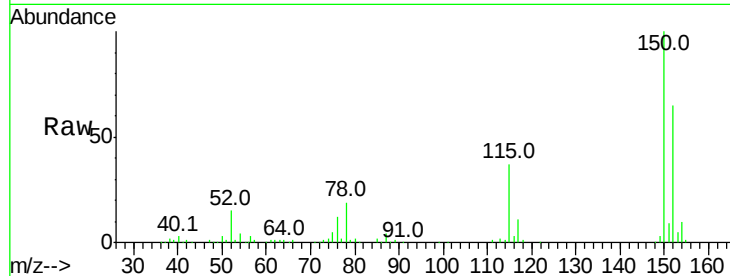


#1

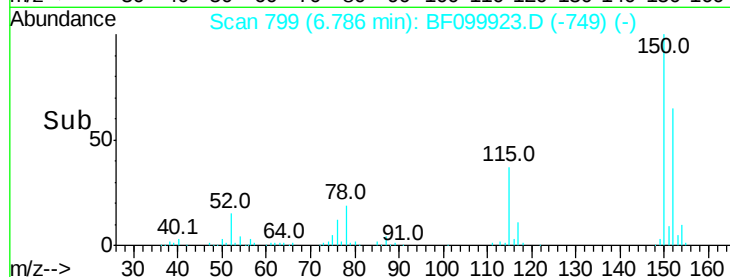
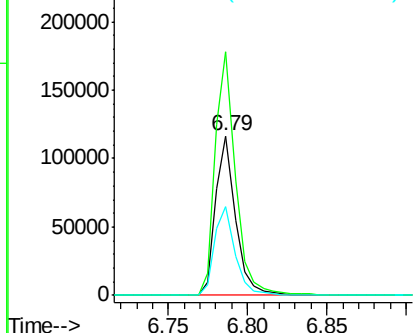
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 799
 Delta R.T. -0.01 min
 Lab File: BF099923.D
 Acq: 28 Oct 2017 17:58

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:152 Resp: 102661
 Ion Ratio Lower Upper
 152 100
 150 153.0 124.6 186.8
 115 56.1 50.1 75.1



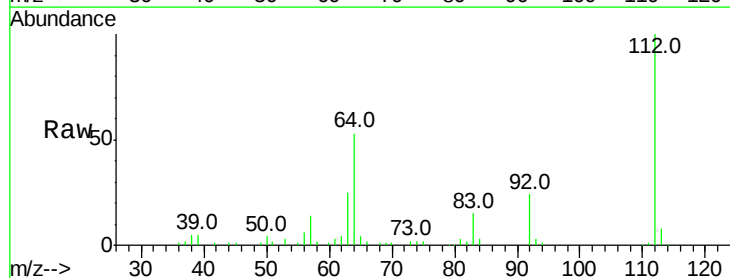
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



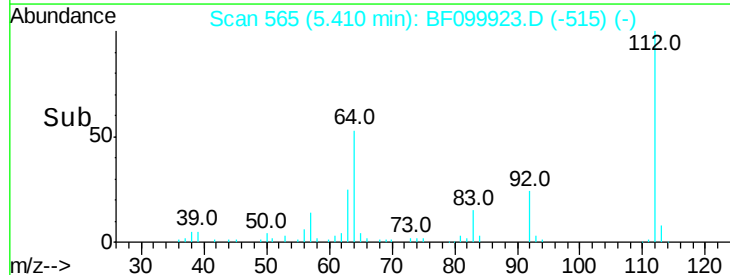
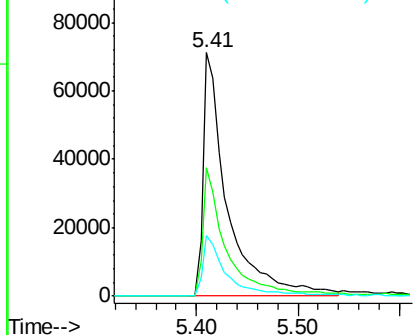
#5

2-Fluorophenol
 Concen: 18.061 ng
 RT: 5.41 min Scan# 565
 Delta R.T. -0.01 min
 Lab File: BF099923.D
 Acq: 28 Oct 2017 17:58

Tgt Ion:112 Resp: 118099
 Ion Ratio Lower Upper
 112 100
 64 52.7 47.9 71.9
 63 24.9 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: 19.978 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

Instrument :

BNA_F

ClientSampled :

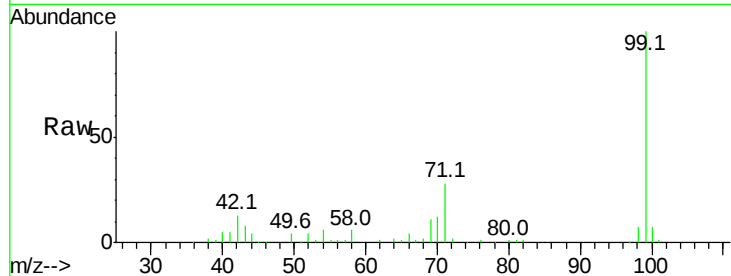
Tot Ion: 99 Resp: 154896

Ion Ratio Lower Upper

99 100

42 13.4 14.5 21.7#

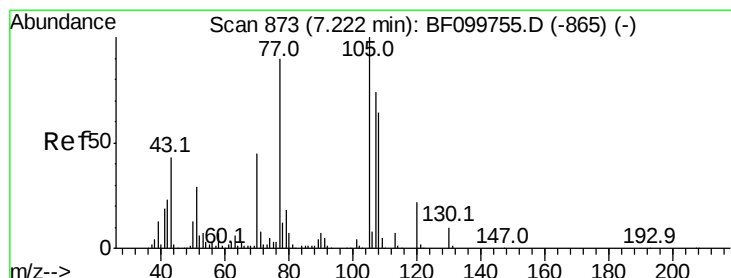
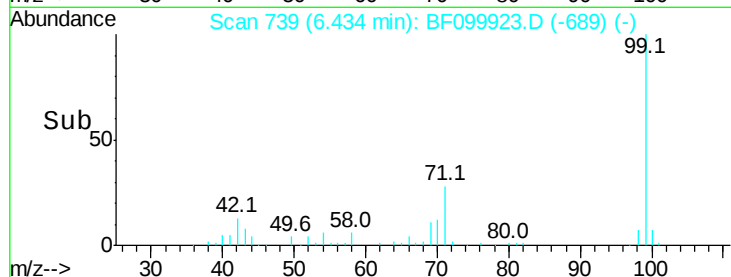
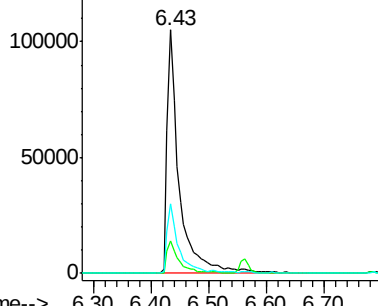
71 28.3 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.197 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.15 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

Tgt Ion: 70 Resp: 9981

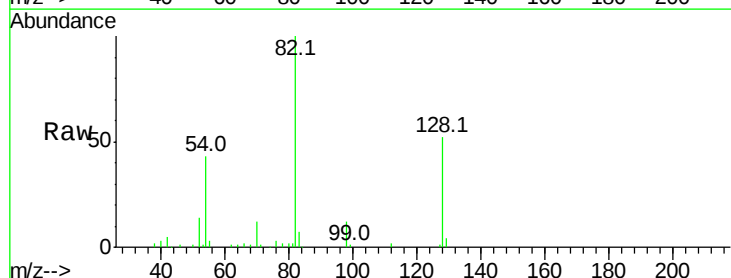
Ion Ratio Lower Upper

70 100

42 42.8 47.5 71.3#

101 0.0 7.4 11.2#

130 0.0 16.6 25.0#

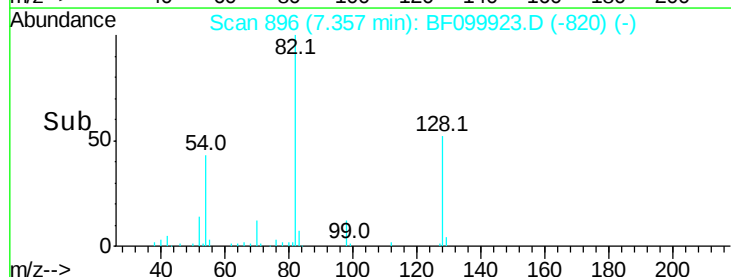
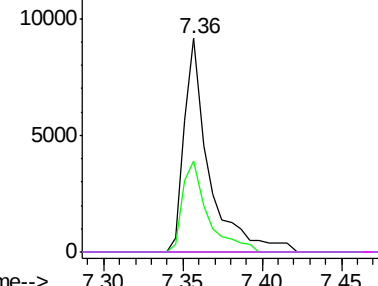


Abundance Ion 70.00 (69.70 to 70.70): BF0

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

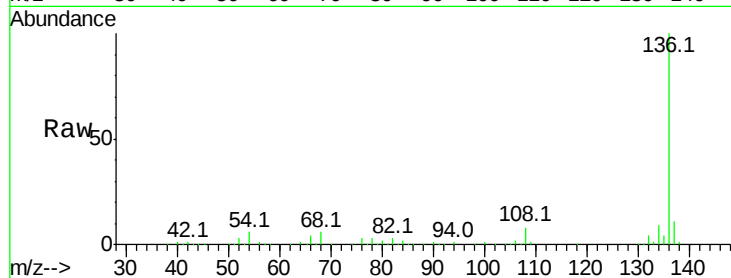




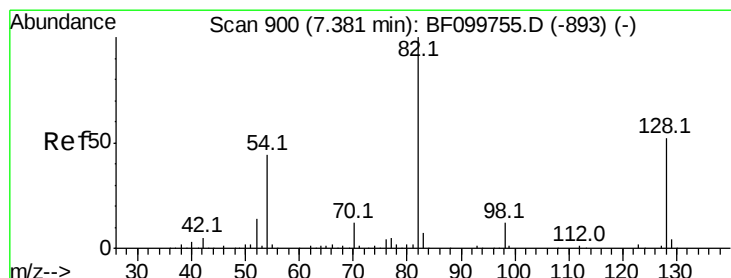
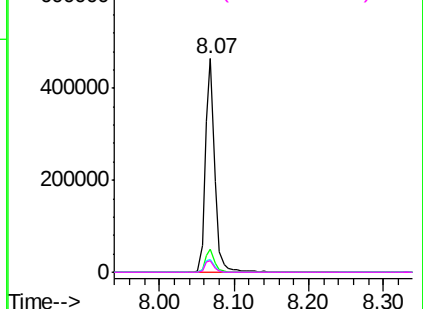
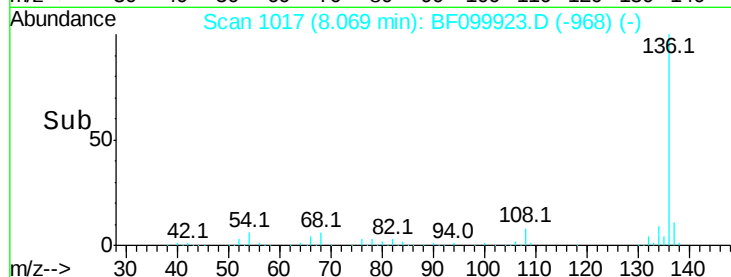
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.07 min Scan# 1017
Delta R.T. -0.01 min
Lab File: BF099923.D
Acq: 28 Oct 2017 17:58

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	406601
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	6.2	6.6	9.8#
68	5.6	5.0	7.4

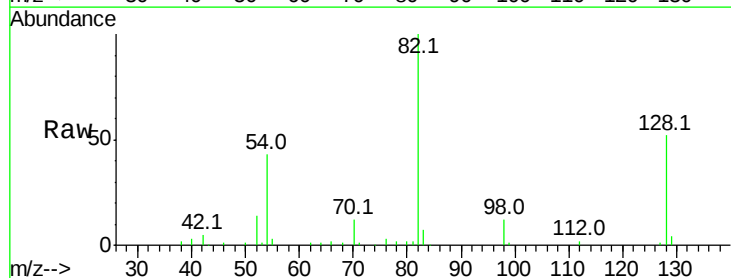


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

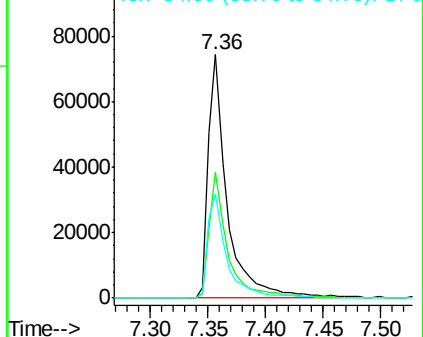
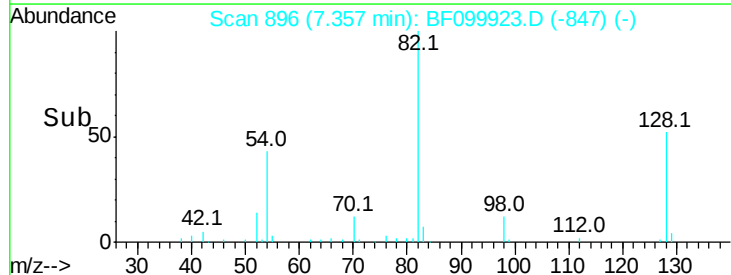


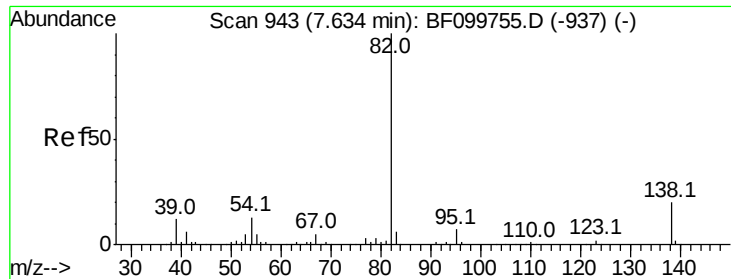
#23
Nitrobenzene-d5
Concen: 13.456 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.01 min
Lab File: BF099923.D
Acq: 28 Oct 2017 17:58

Tgt Ion:	82	Resp:	84982
Ion	Ratio	Lower	Upper
82	100		
128	51.9	36.1	54.1
54	42.9	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

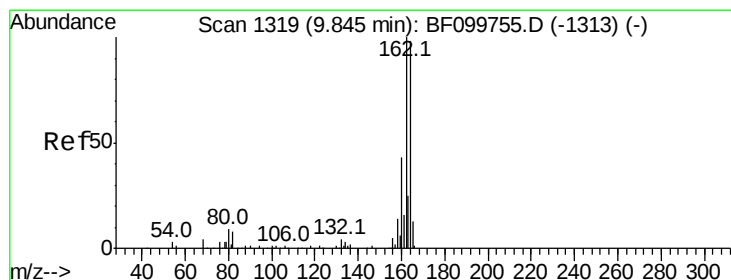
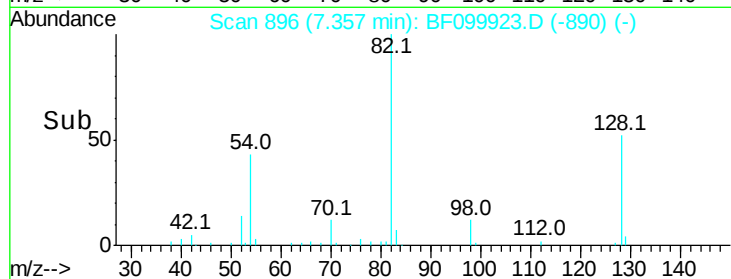
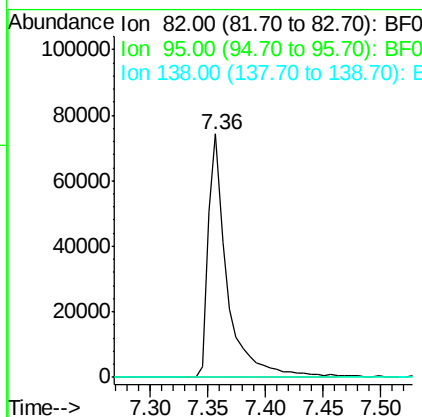
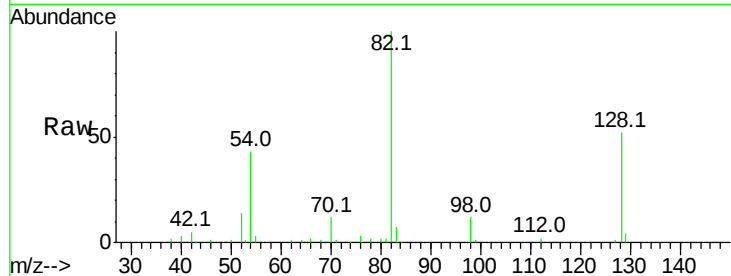




#25
Isophorone
Concen: 7.415 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.26 min
Lab File: BF099923.D
Acq: 28 Oct 2017 17:58

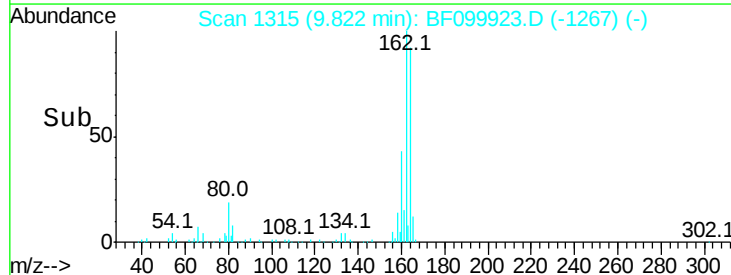
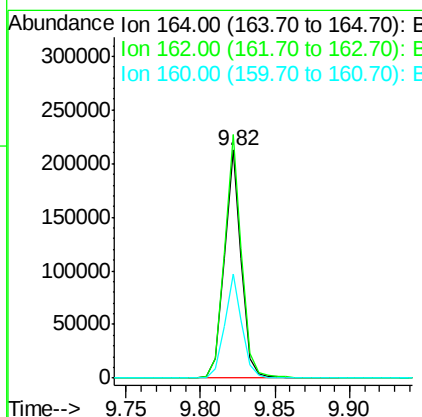
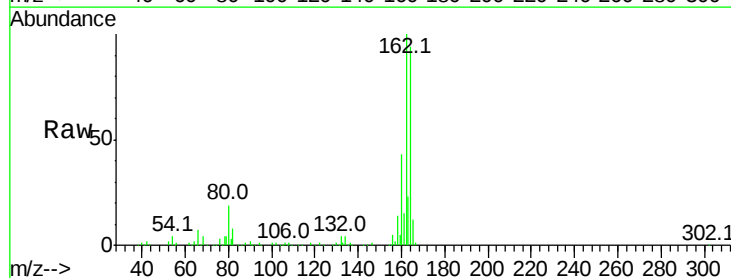
Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 84982
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 14.9 22.3#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1315
Delta R.T. -0.02 min
Lab File: BF099923.D
Acq: 28 Oct 2017 17:58

Tgt Ion:164 Resp: 170670
Ion Ratio Lower Upper
164 100
162 106.8 86.1 129.1
160 45.9 38.3 57.5

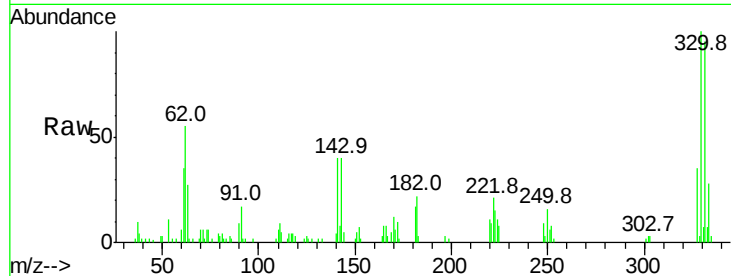




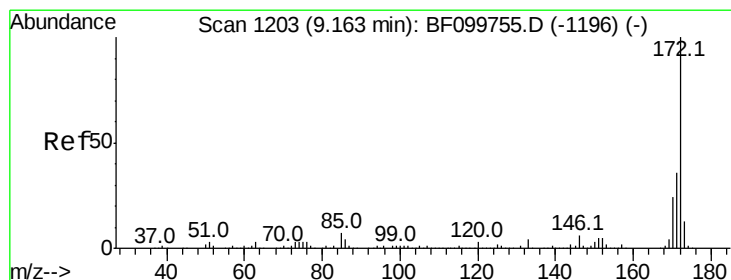
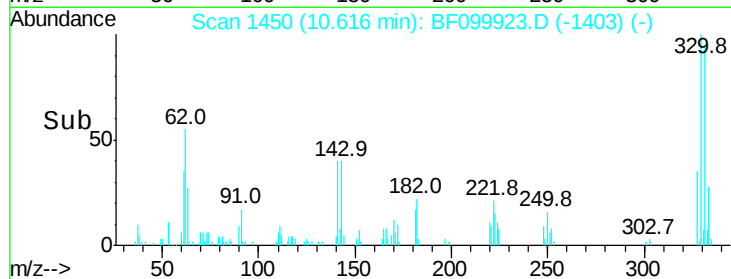
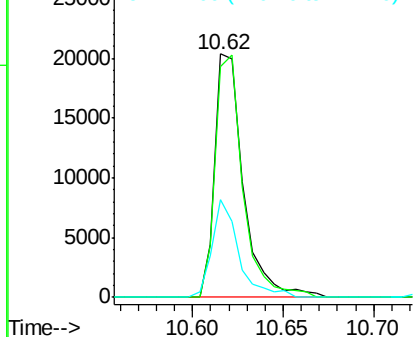
#41
 2,4,6-Tribromophenol
 Concen: 14.387 ng
 RT: 10.62 min Scan# 1450
 Delta R.T. -0.02 min
 Lab File: BF099923.D
 Acq: 28 Oct 2017 17:58

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 22376
 Ion Ratio Lower Upper
 330 100
 332 96.3 77.0 115.6
 141 37.4 29.9 44.9

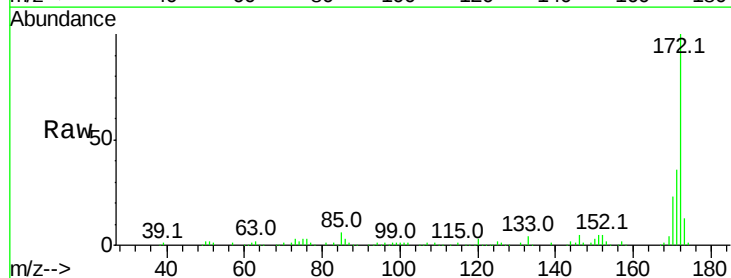


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

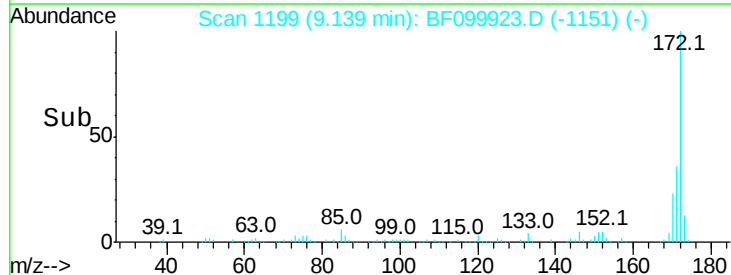
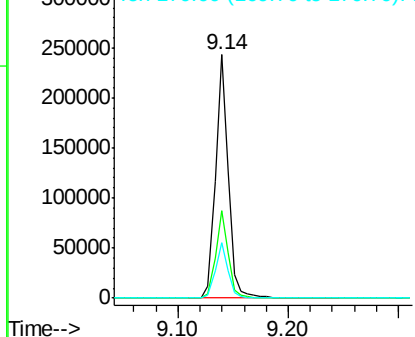


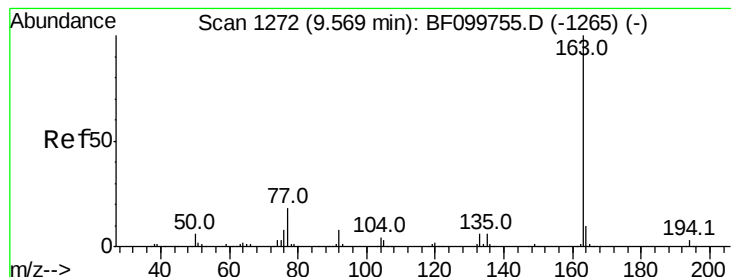
#44
 2-Fluorobiphenyl
 Concen: 17.319 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: BF099923.D
 Acq: 28 Oct 2017 17:58

Tgt Ion:172 Resp: 191584
 Ion Ratio Lower Upper
 172 100
 171 36.1 29.7 44.5
 170 22.7 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: 2.105 ng

RT: 9.54 min Scan# 1267

Delta R.T. -0.02 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

Instrument :

BNA_F

ClientSampleId :

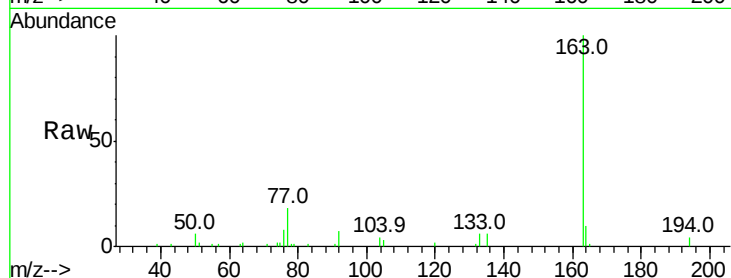
Tot Ion:163 Resp: 28447

Ion Ratio Lower Upper

163 100

194 4.1 2.7 4.1#

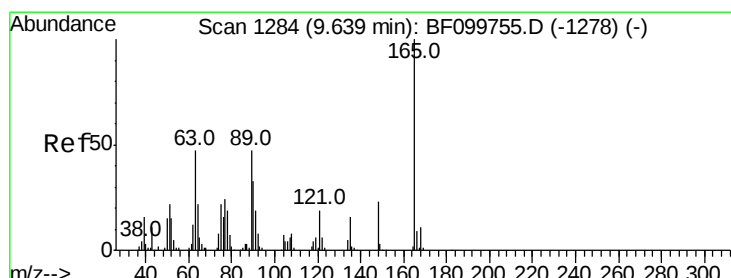
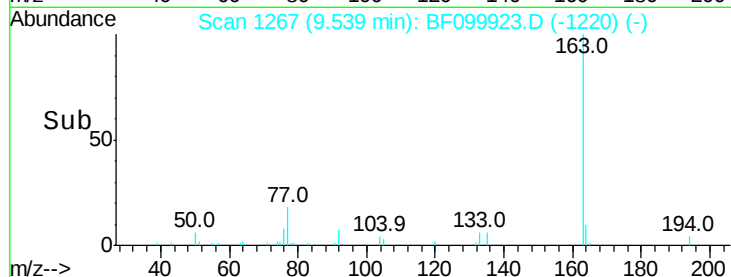
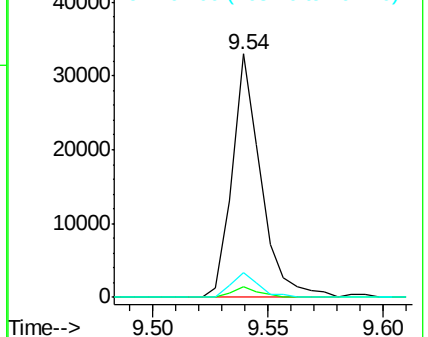
164 10.1 8.2 12.2



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: 7.865 ng

RT: 9.82 min Scan# 1315

Delta R.T. 0.18 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

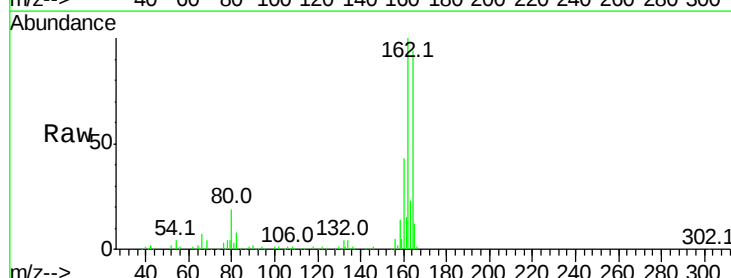
Tgt Ion:165 Resp: 22346

Ion Ratio Lower Upper

165 100

63 2.0 44.7 67.1#

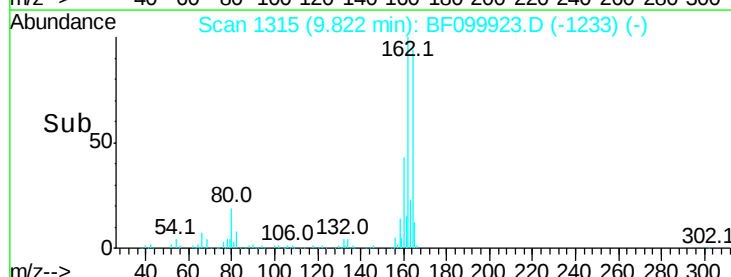
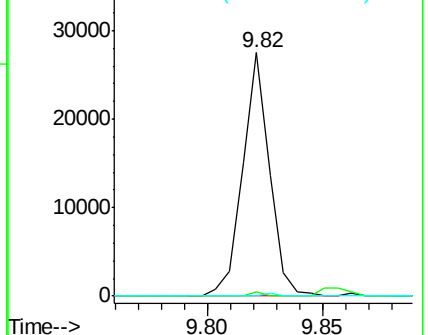
89 0.0 44.0 66.0#

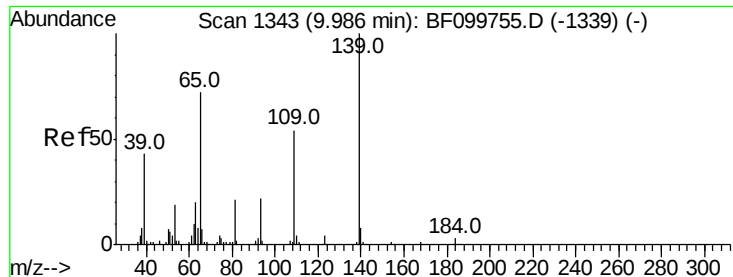


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#55

4-Nitrophenol

Concen: 3.134 ng

RT: 10.03 min Scan# 1351

Delta R.T. 0.04 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

Instrument :

BNA_F

ClientSampleId :

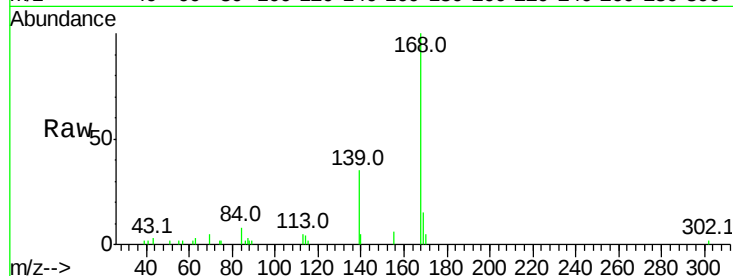
Tot Ion:139 Resp: 5483

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

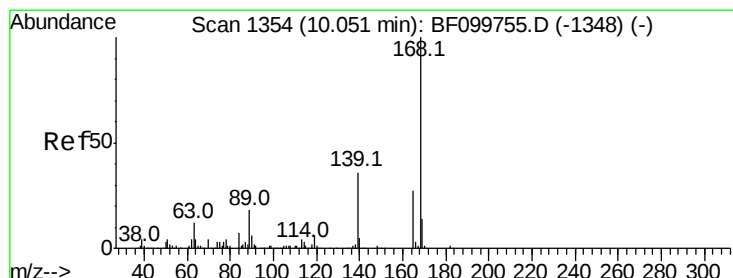
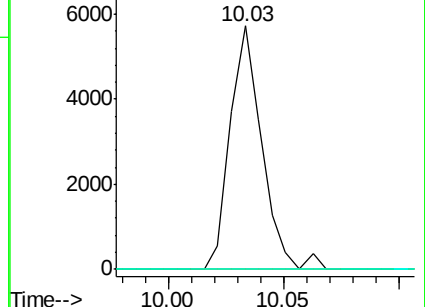
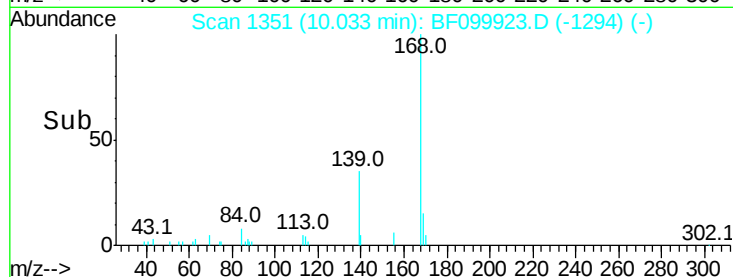
65 0.0 72.6 112.6#



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: 6.531 ng

RT: 9.82 min Scan# 1315

Delta R.T. -0.23 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

Tgt Ion:165 Resp: 22346

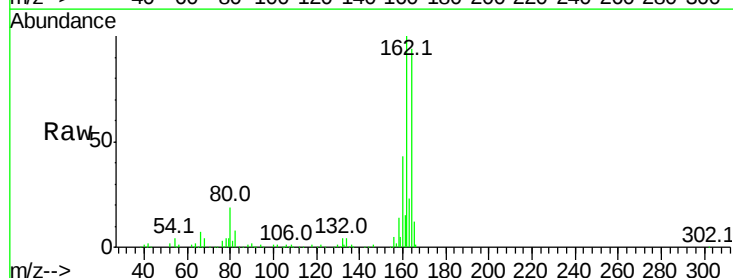
Ion Ratio Lower Upper

165 100

63 2.0 36.4 54.6#

89 0.0 57.8 86.6#

182 0.0 1.6 2.4#

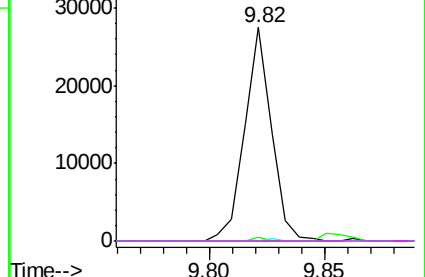
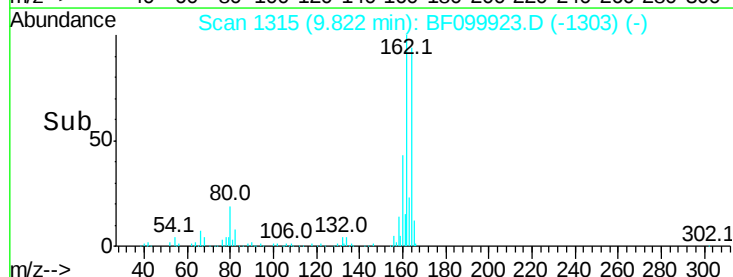


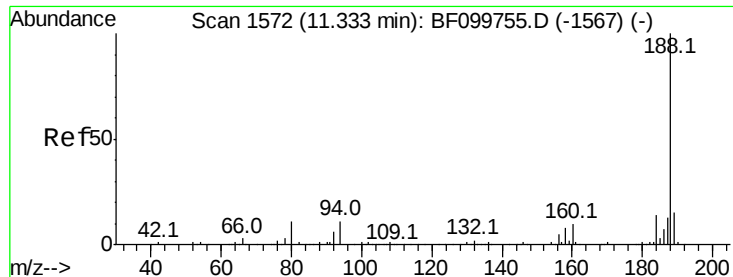
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

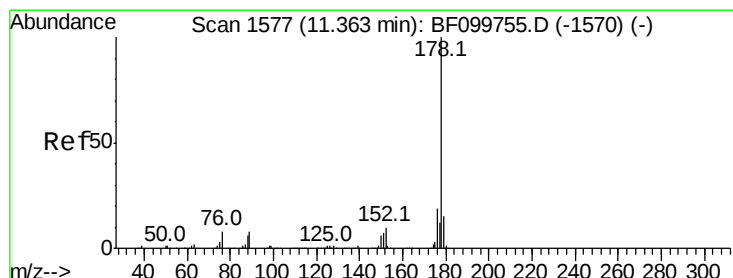
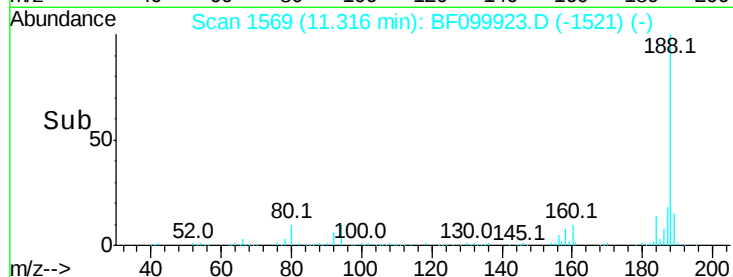
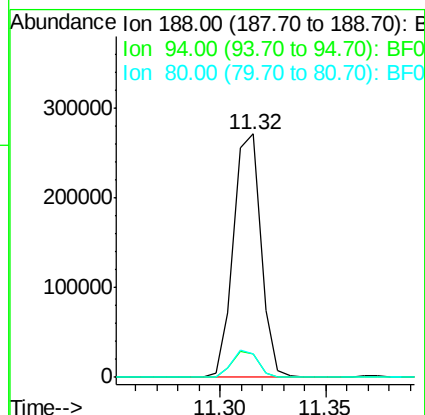
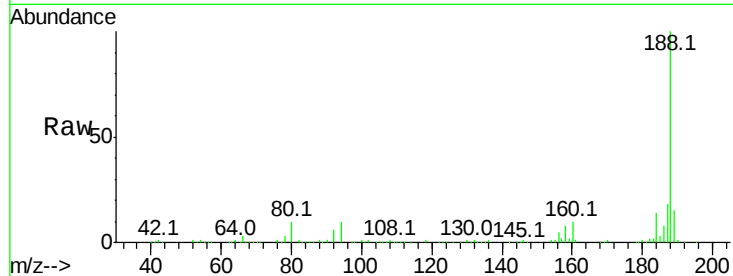




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.02 min
 Lab File: BF099923.D
 Acq: 28 Oct 2017 17:58

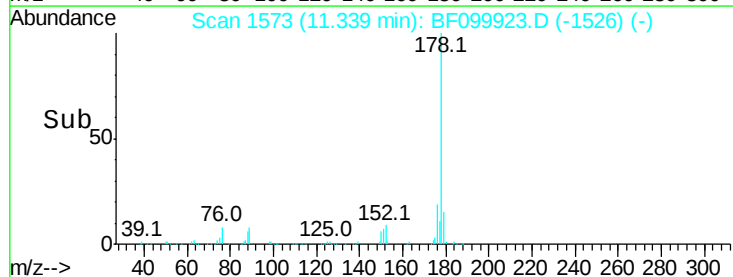
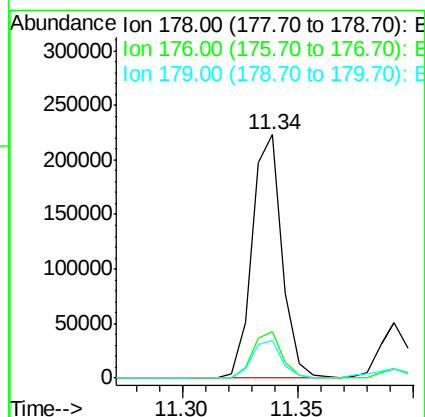
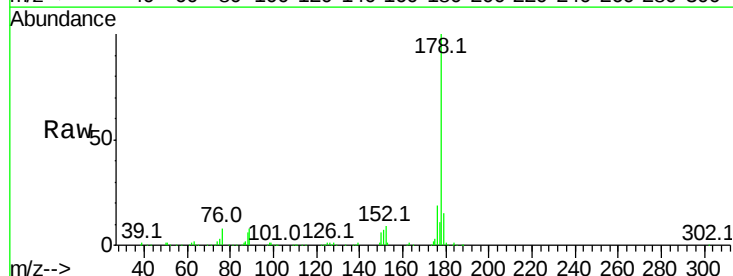
Instrument :
 BNA_F
 ClientSampleId :

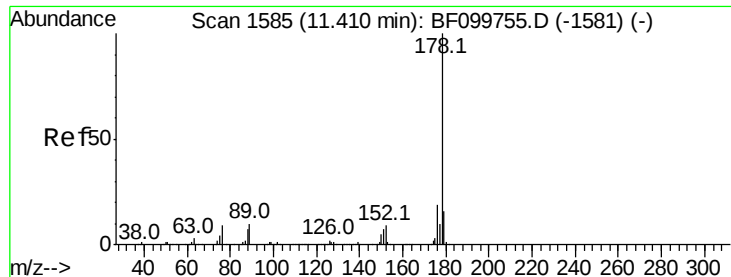
Tot Ion:188 Resp: 243819
 Ion Ratio Lower Upper
 188 100
 94 9.6 8.5 12.7
 80 9.9 9.2 13.8



#70
 Phenanthrene
 Concen: 14.655 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. -0.02 min
 Lab File: BF099923.D
 Acq: 28 Oct 2017 17:58

Tgt Ion:178 Resp: 201650
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.8 23.8
 179 15.4 13.0 19.6





#71

Anthracene

Concen: 3.086 ng

RT: 11.39 min Scan# 1582

Delta R.T. -0.02 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

Instrument :

BNA_F

ClientSampleId :

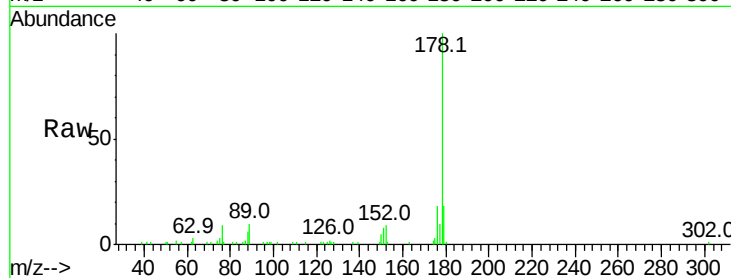
Tot Ion:178 Resp: 43108

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.2

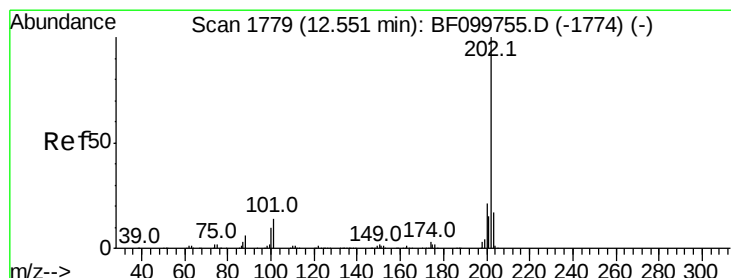
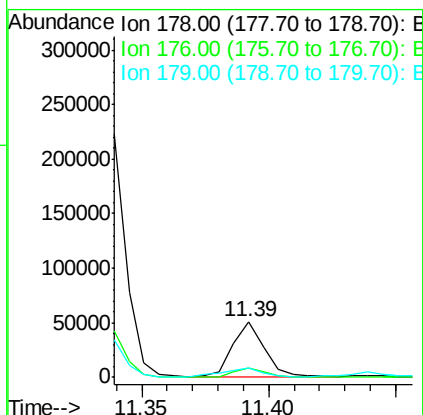
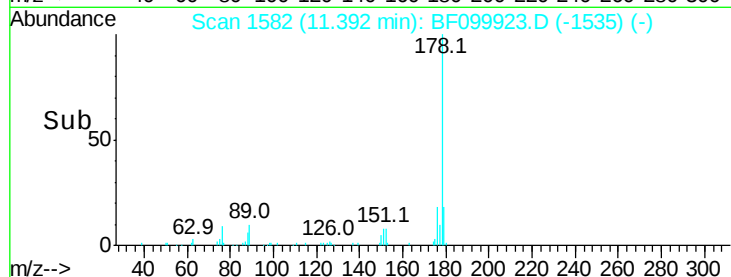
179 17.8 12.6 19.0



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: 17.776 ng

RT: 12.53 min Scan# 1776

Delta R.T. -0.02 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

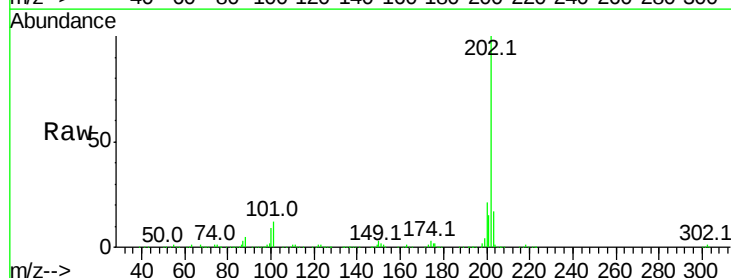
Tgt Ion:202 Resp: 254196

Ion Ratio Lower Upper

202 100

101 11.7 0.0 34.1

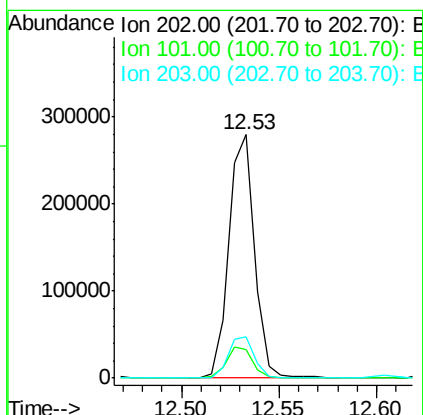
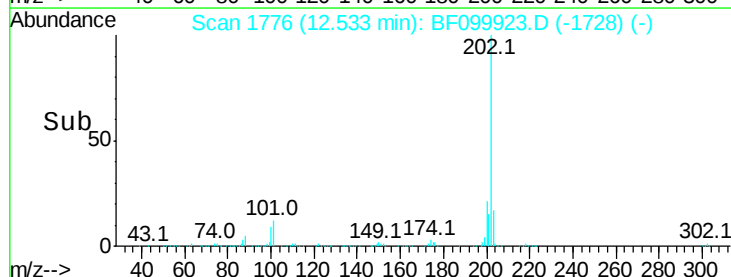
203 17.1 0.0 38.1

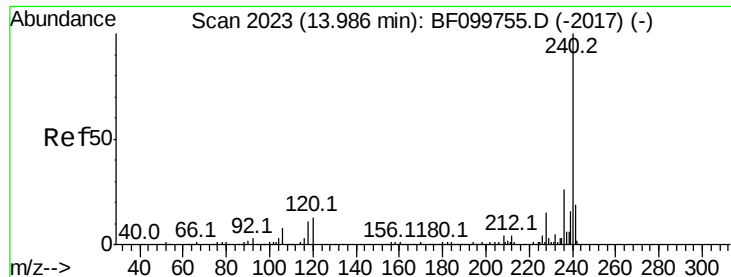


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.03 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

Instrument :

BNA_F

ClientSampled :

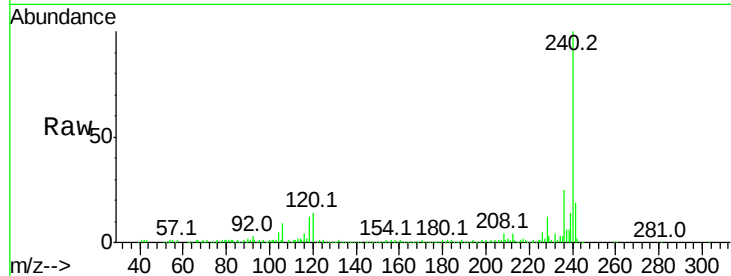
Tot Ion:240 Resp: 173892

Ion Ratio Lower Upper

240 100

120 14.4 9.5 14.3#

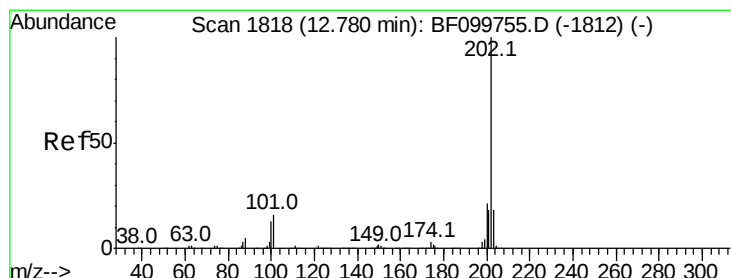
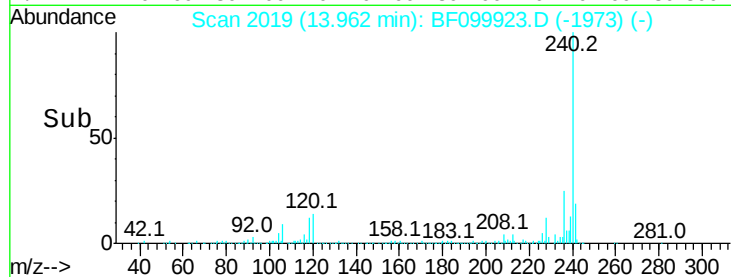
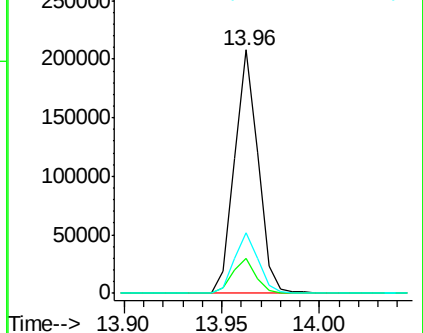
236 24.8 20.7 31.1



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: 16.309 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.02 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

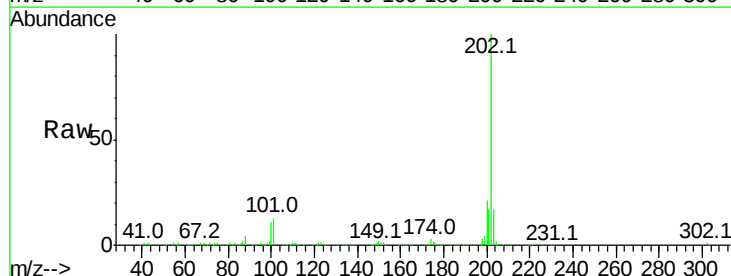
Tgt Ion:202 Resp: 215643

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

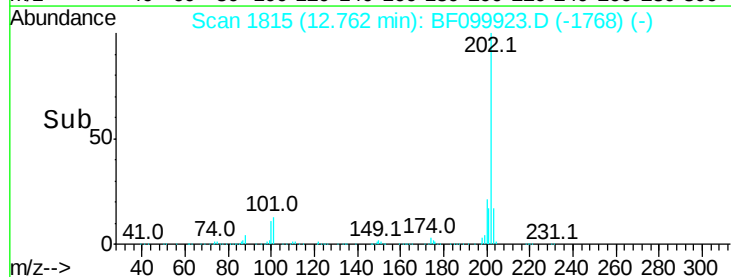
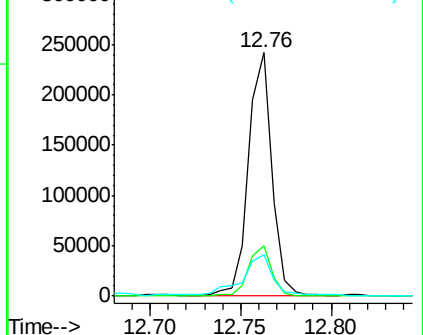
203 17.1 14.3 21.5

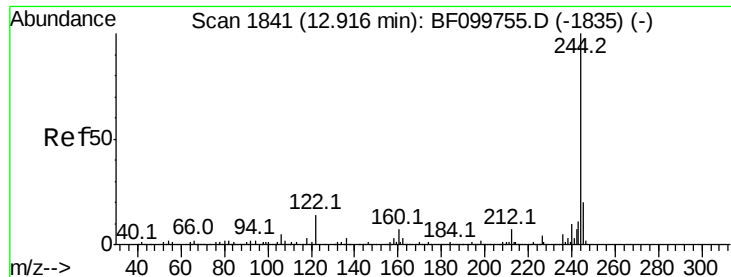


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 13.269 ng

RT: 12.89 min Scan# 1837

Delta R.T. -0.03 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

Instrument :

BNA_F

ClientSampleId :

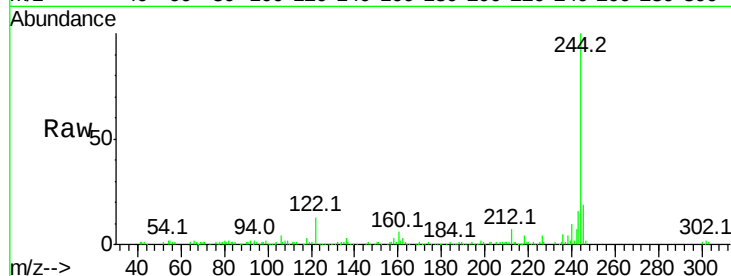
Tot Ion:244 Resp: 105585

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

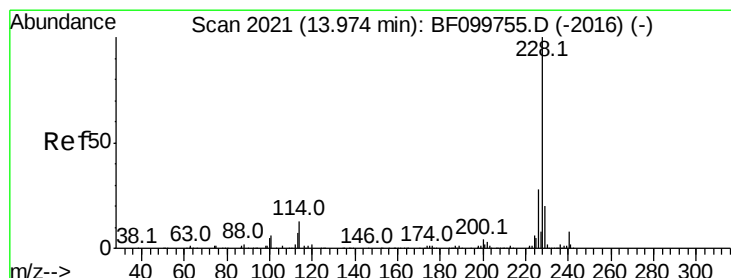
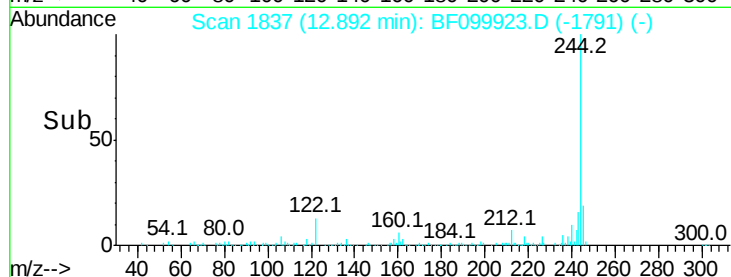
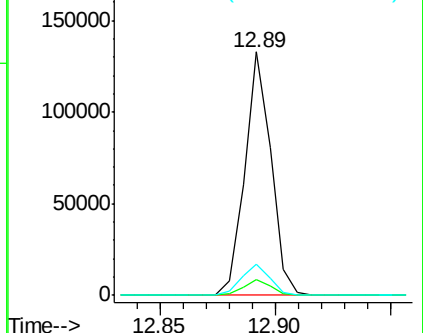
122 12.8 11.0 16.4



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: 9.855 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.03 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

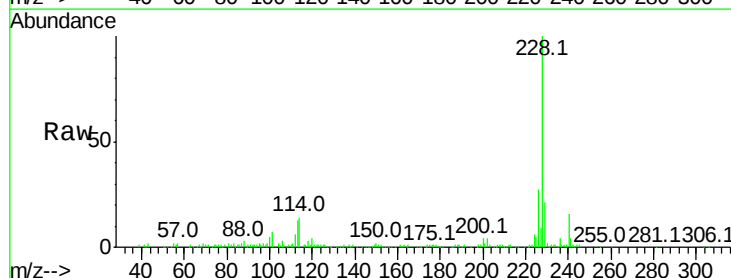
Tgt Ion:228 Resp: 108640

Ion Ratio Lower Upper

228 100

226 26.8 22.6 33.8

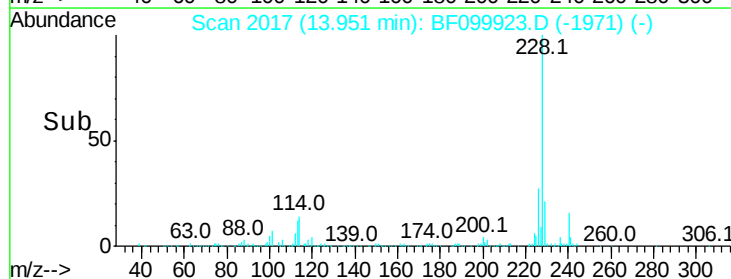
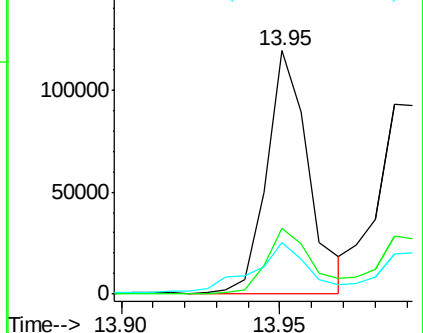
229 21.4 15.8 23.6

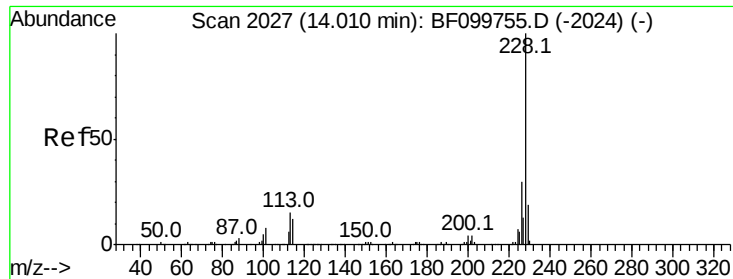


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.617 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.03 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

Instrument :

BNA_F

ClientSampleId :

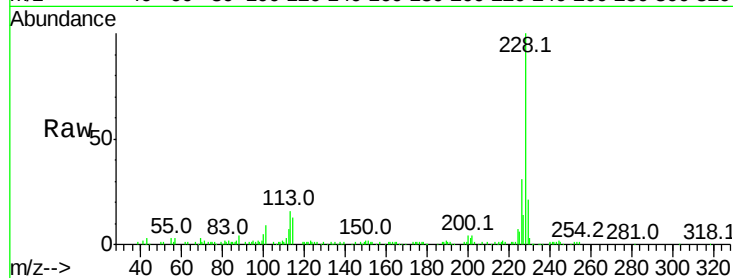
Tot Ion:228 Resp: 99671

Ion Ratio Lower Upper

228 100

226 30.7 25.0 37.6

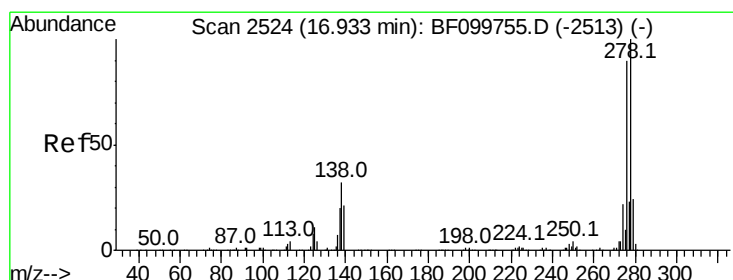
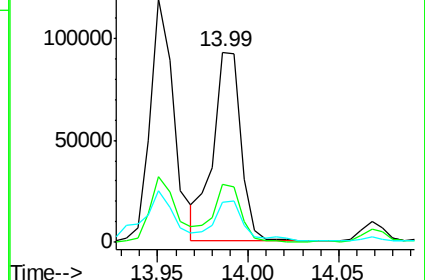
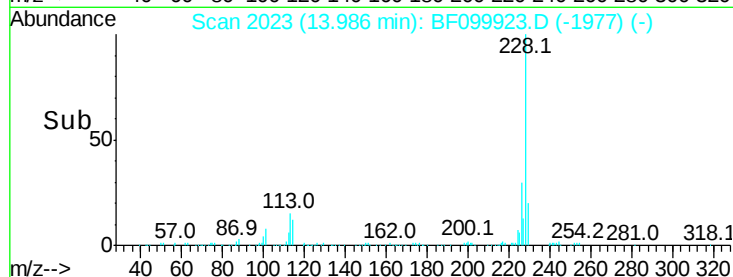
229 21.3 16.2 24.4



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: 5.941 ng

RT: 16.90 min Scan# 2518

Delta R.T. -0.05 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

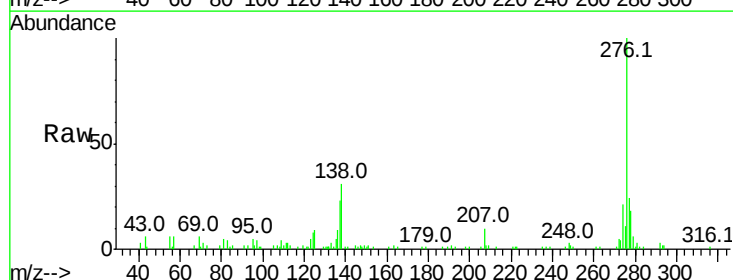
Tgt Ion:276 Resp: 56520

Ion Ratio Lower Upper

276 100

138 28.9 25.0 37.6

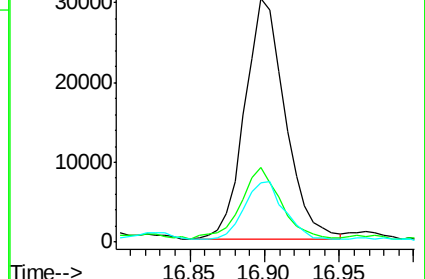
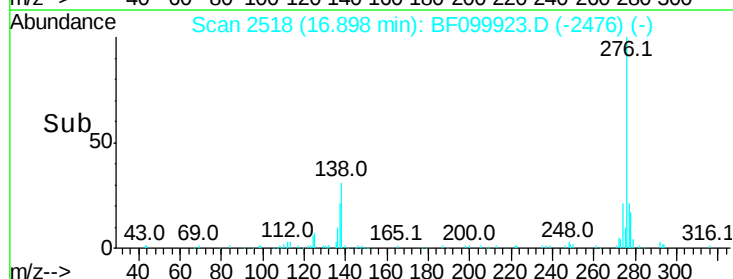
277 24.0 20.1 30.1

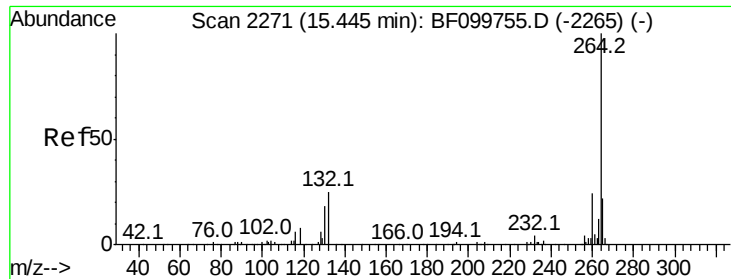


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

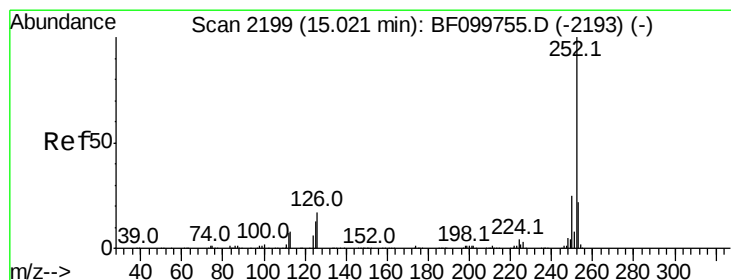
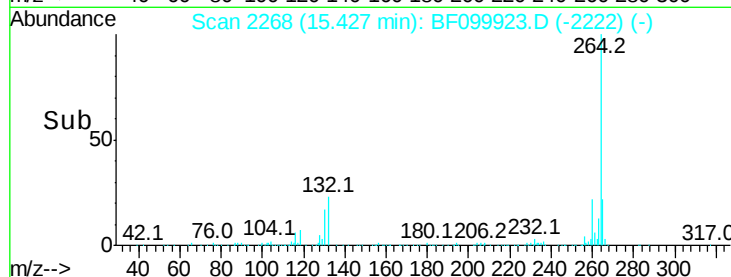
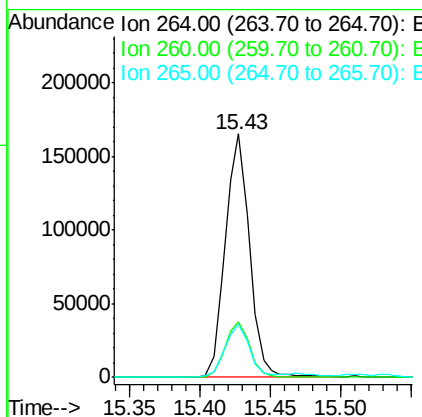
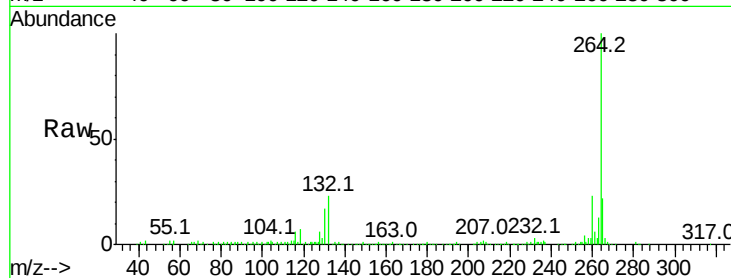




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.03 min
Lab File: BF099923.D
Acq: 28 Oct 2017 17:58

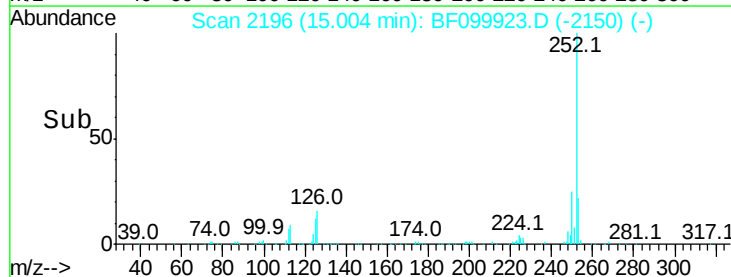
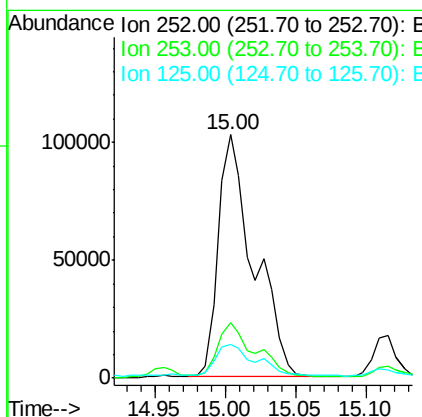
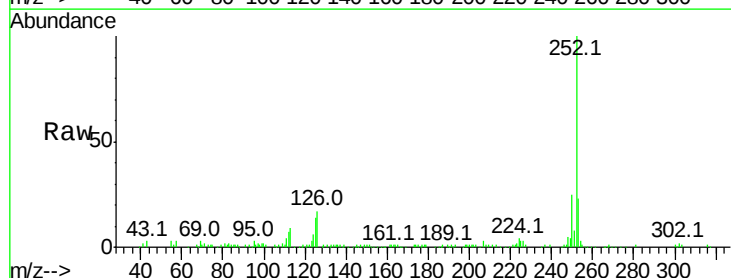
Instrument :
BNA_F
ClientSampleId :

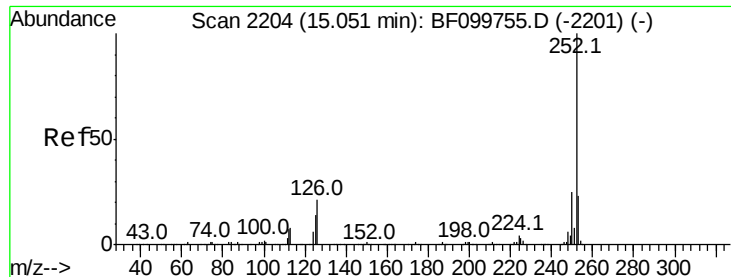
Tot Ion:264 Resp: 197568
Ion Ratio Lower Upper
264 100
260 22.8 19.2 28.8
265 21.7 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 14.435 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.03 min
Lab File: BF099923.D
Acq: 28 Oct 2017 17:58

Tgt Ion:252 Resp: 180084
Ion Ratio Lower Upper
252 100
253 22.7 17.0 25.6
125 13.9 9.0 13.6#

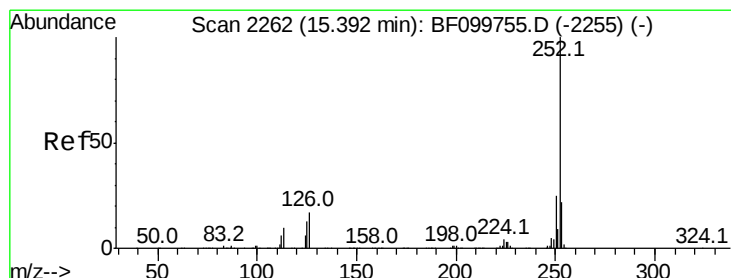
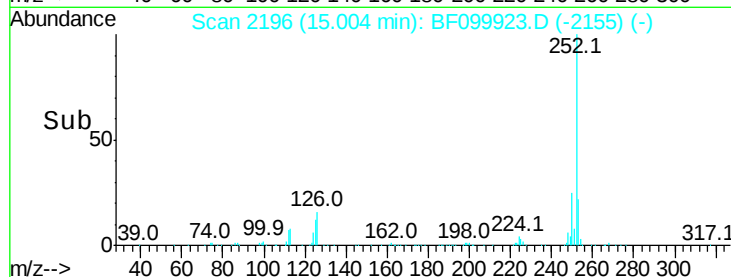
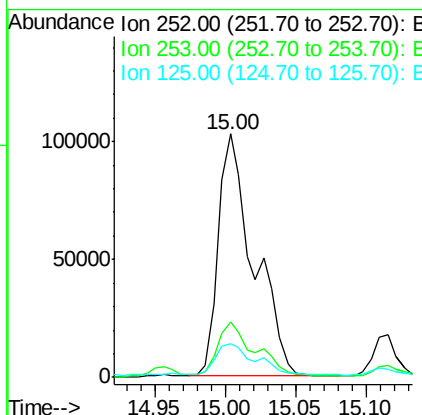
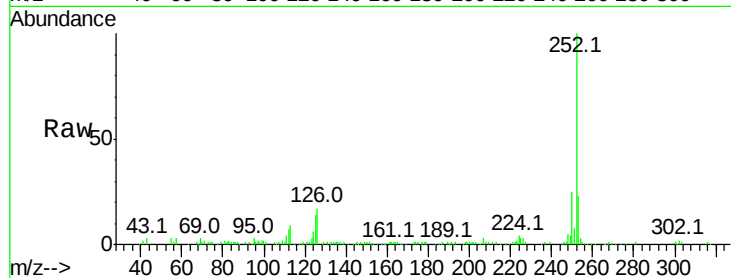




#88
Benzo(k)fluoranthene
Concen: 15.308 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.06 min
Lab File: BF099923.D
Acq: 28 Oct 2017 17:58

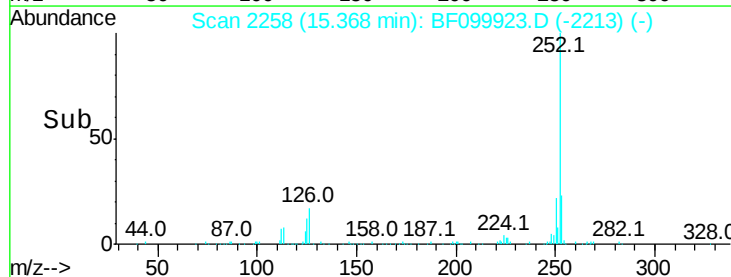
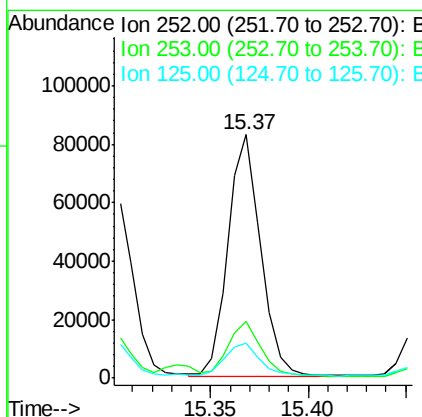
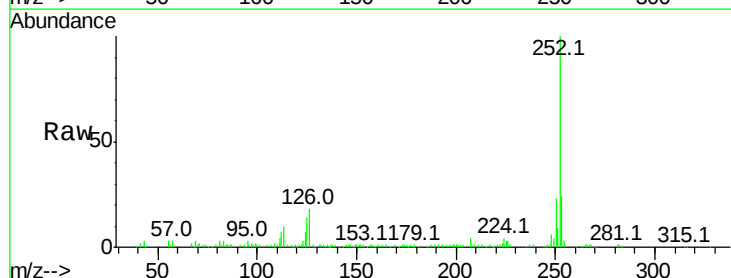
Instrument :
BNA_F
ClientSampleId :

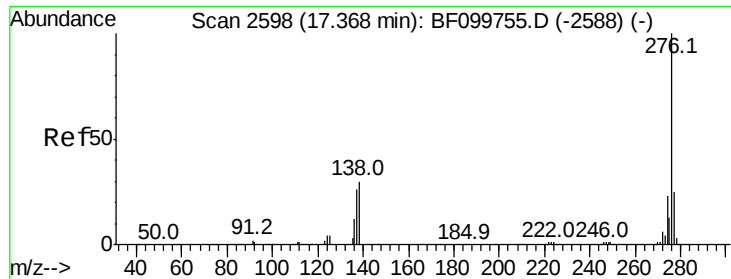
Tot Ion:252 Resp: 180084
Ion Ratio Lower Upper
252 100
253 22.7 17.9 26.9
125 13.9 10.2 15.2



#89
Benzo(a)pyrene
Concen: 8.655 ng
RT: 15.37 min Scan# 2258
Delta R.T. -0.04 min
Lab File: BF099923.D
Acq: 28 Oct 2017 17:58

Tgt Ion:252 Resp: 96988
Ion Ratio Lower Upper
252 100
253 23.5 17.1 25.7
125 14.5 9.8 14.6





#91

Benzo(a,h,i)perylene

Concen: 5.303 ng

RT: 17.34 min Scan# 2594

Delta R.T. -0.05 min

Lab File: BF099923.D

Acq: 28 Oct 2017 17:58

Instrument :

BNA_F

ClientSampleId :

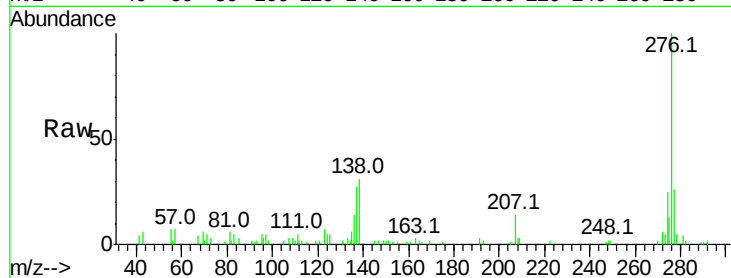
Tot Ion:276 Resp: 51662

Ion Ratio Lower Upper

276 100

277 26.4 17.9 26.9

138 31.3 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

