

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062717\
 Data File : BF096220.D
 Acq On : 27 Jun 2017 17:07
 Operator : SJ/MA
 Sample : I3872-07DL 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 27 17:34:09 2017
 Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF062717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 27 15:17:15 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	223939	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	939096	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	390204	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	565162	20.00	ng	0.00
75) Chrysene-d12	13.92	240	385017	20.00	ng	0.00
86) Perylene-d12	15.34	264	381815	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.38	112	31658	2.04	ng	0.00
7) Phenol-d6	6.39	99	39782	2.11	ng	0.00
23) Nitrobenzene-d5	7.33	82	20287	1.50	ng	-0.03
41) 2,4,6-Tribromophenol	10.59	330	5208	1.70	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	41176	1.93	ng	-0.02
78) Terphenyl-d14	12.87	244	24915	1.61	ng	0.00

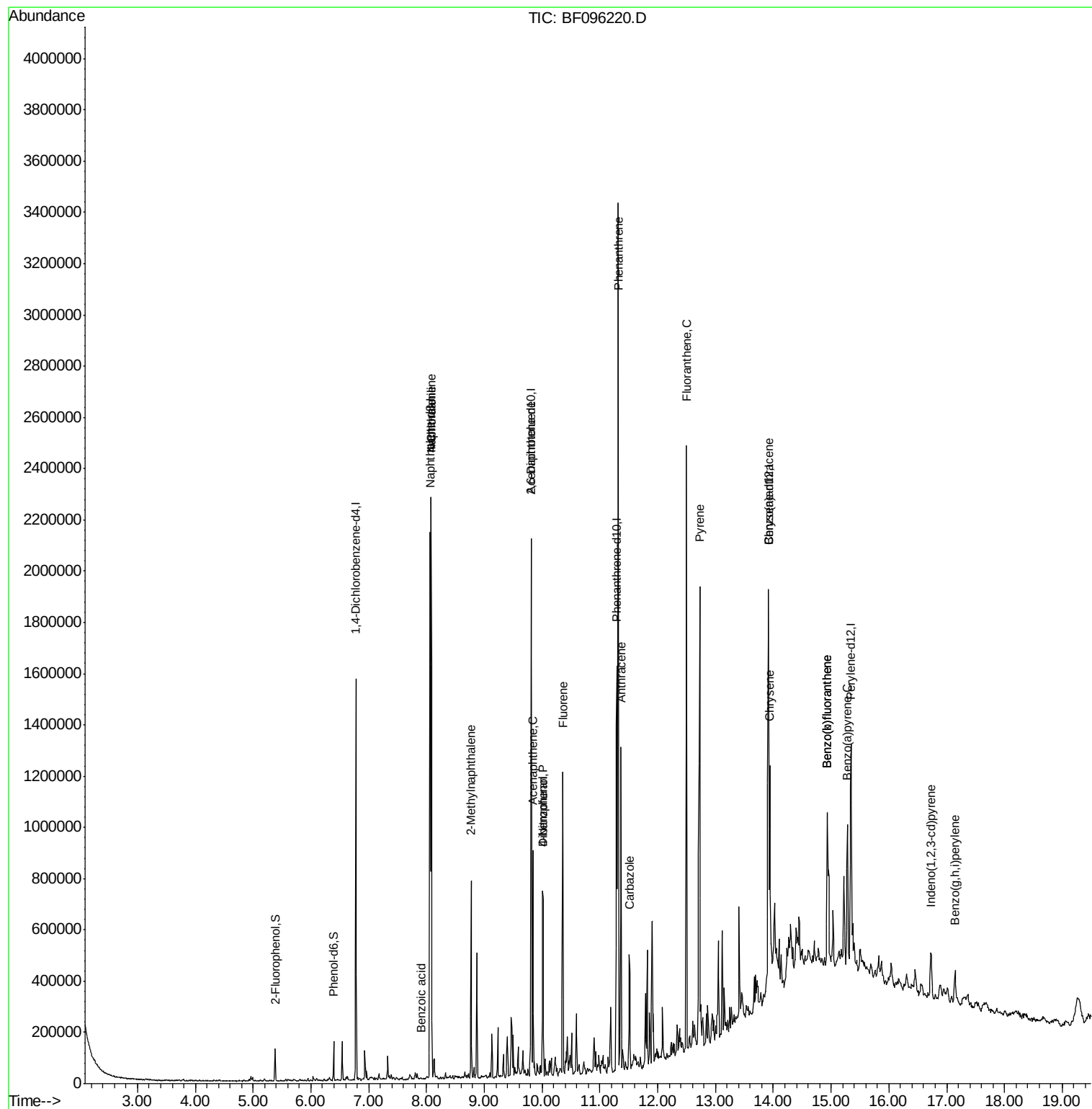
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.32	77	248	Below Cal		# 1
31) Naphthalene	8.08	128	887254	19.60	ng	99
32) Benzoic acid	7.90	122	660	8.84	ng	# 39
33) 4-Chloroaniline	8.08	127	115631	6.17	ng	# 33
37) 2-Methylnaphthalene	8.77	142	197815	6.73	ng	98
50) 2,6-Dinitrotoluene	9.81	165	55502	9.56	ng	# 34
51) Acenaphthene	9.85	154	192621	7.94	ng	99
54) Dibenzofuran	10.02	168	249694	7.88	ng	97
55) 4-Nitrophenol	10.01	139	93125	15.48	ng	# 27
57) Fluorene	10.36	166	297675	13.65	ng	99
70) Phenanthrene	11.32	178	1195659	41.61	ng	99
71) Anthracene	11.36	178	435255	13.78	ng	97
72) Carbazole	11.51	167	169544	4.86	ng	96
74) Fluoranthene	12.50	202	878848	27.99	ng	96
77) Pyrene	12.73	202	726597	22.96	ng	99
80) Benzo(a)anthracene	13.91	228	327265	13.94	ng	99
82) Chrysene	13.94	228	282153	11.62	ng	96
85) Indeno(1,2,3-cd)pyrene	16.73	276	122707	6.09	ng	98
87) Benzo(b)fluoranthene	14.93	252	466041	18.58	ng	# 94
88) Benzo(k)fluoranthene	14.93	252	466041	20.35	ng	98
89) Benzo(a)pyrene	15.28	252	258893	11.69	ng	# 92
91) Benzo(g,h,i)perylene	17.14	276	104603	5.80	ng	96

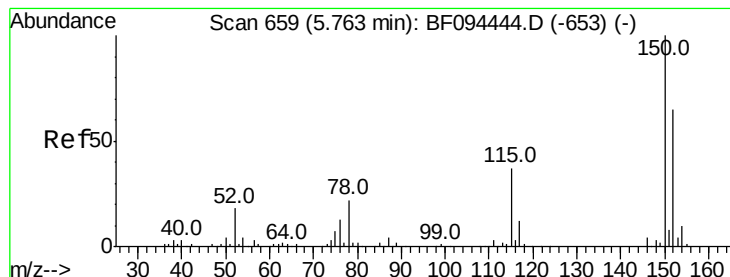
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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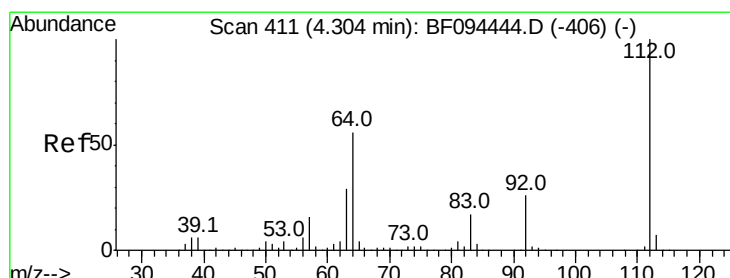
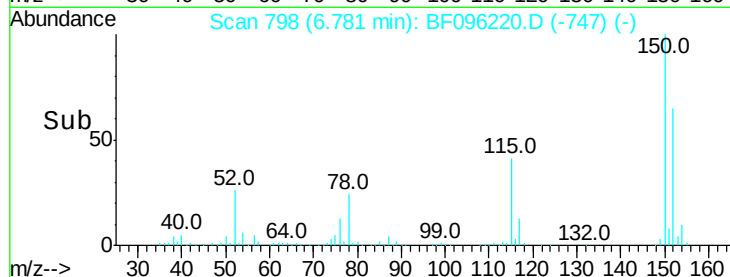
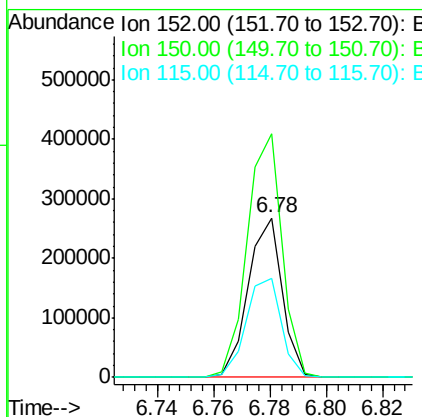
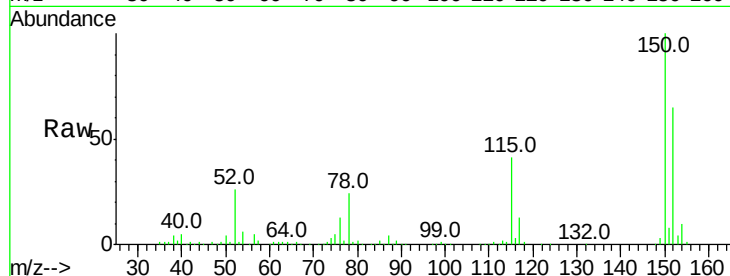


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.00 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Instrument :
BNA_F
ClientSampleId :

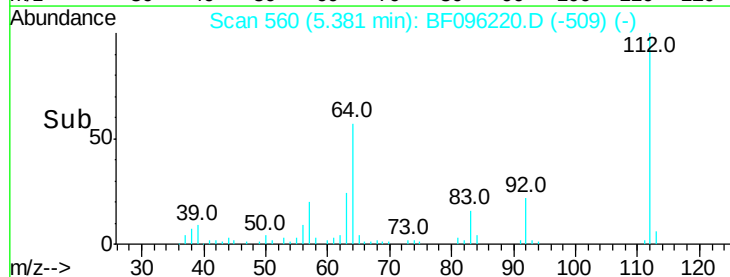
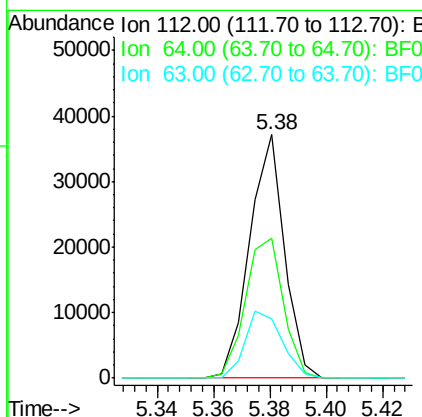
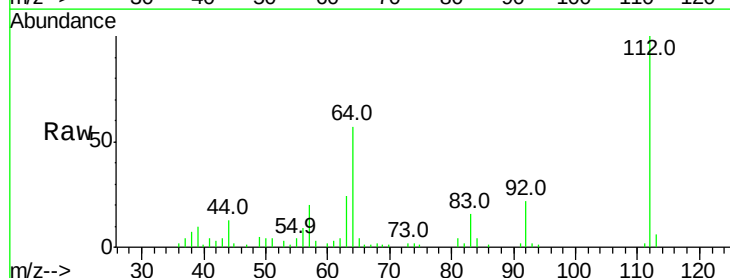
Tot Ion	Ratio	Lower	Upper
152	100		
150	152.7	126.2	189.2
115	62.0	52.2	78.2

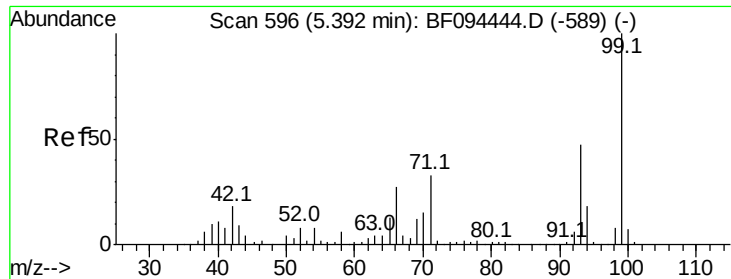


#5

2-Fluorophenol
Concen: 2.04 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.2	46.0	69.0
63	24.5	23.4	35.0





#7

Phenol-d6

Concen: 2.11 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.00 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

ClientSampleId :

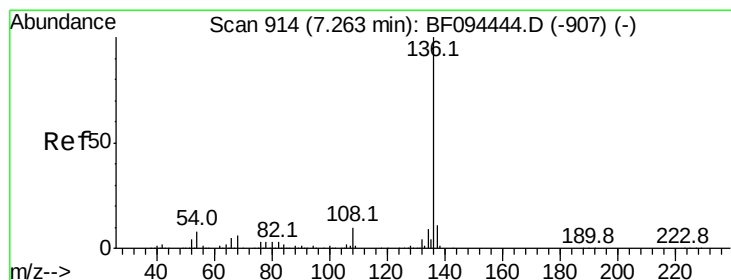
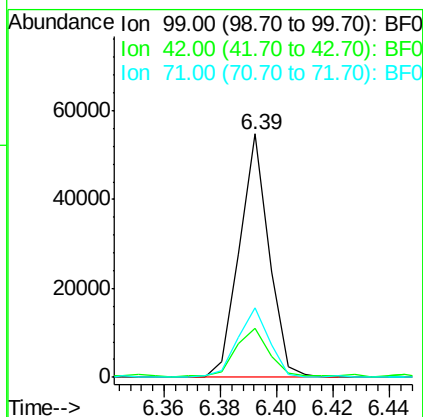
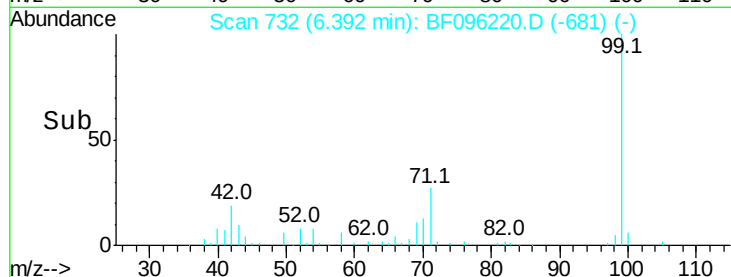
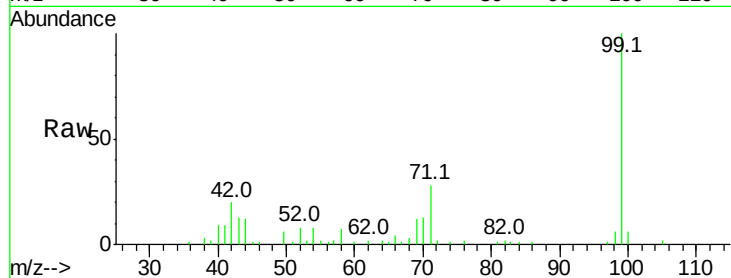
Tot Ion: 99 Resp: 39782

Ion Ratio Lower Upper

99 100

42 20.1 13.5 20.3

71 28.4 24.5 36.7



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 1016

Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Tgt Ion: 136 Resp: 939096

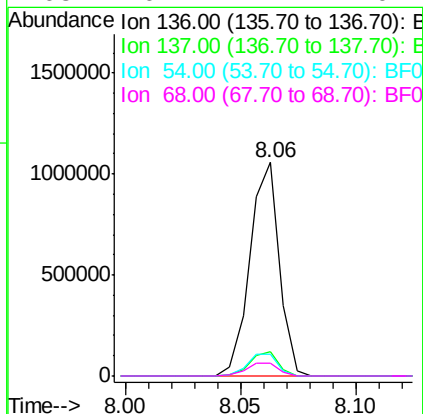
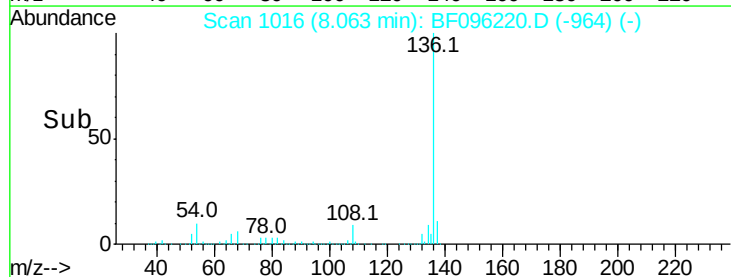
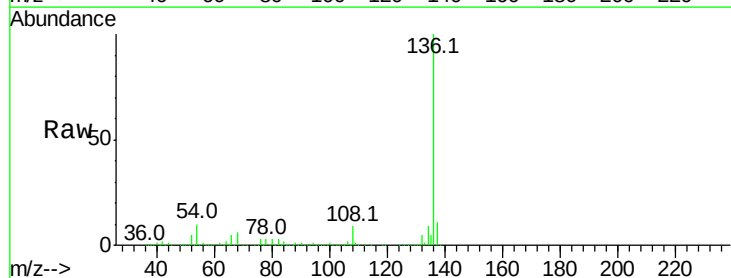
Ion Ratio Lower Upper

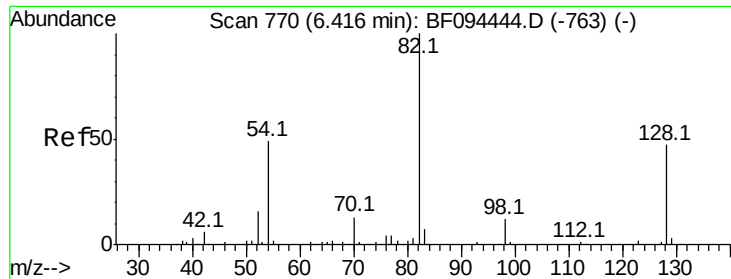
136 100

137 11.2 8.5 12.7

54 10.2 4.9 7.3#

68 6.1 4.1 6.1#

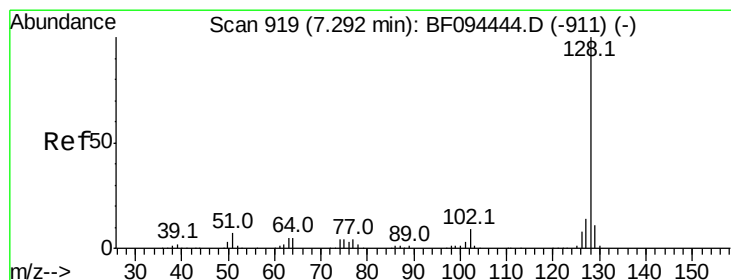
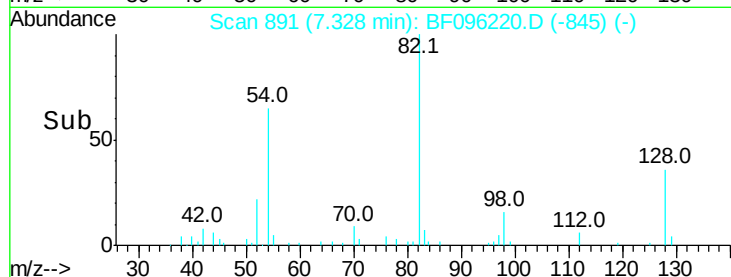
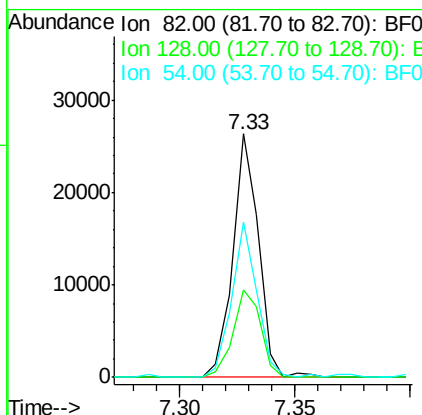
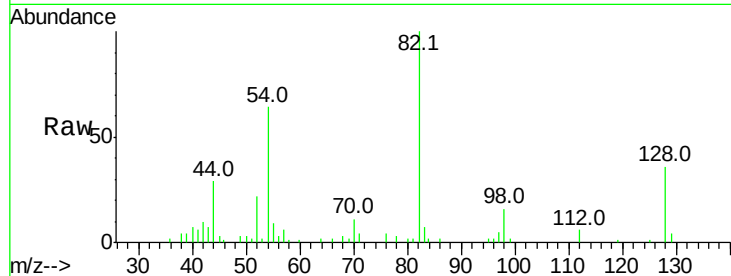




#23
Nitrobenzene-d5
Concen: 1.50 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.03 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

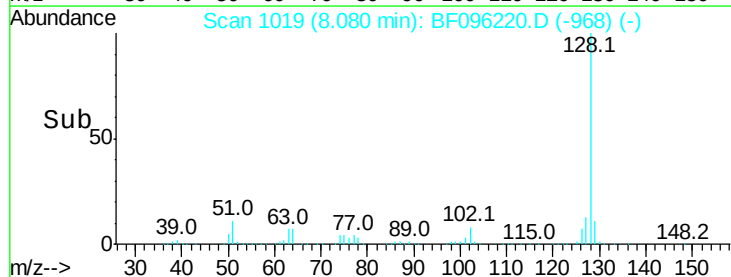
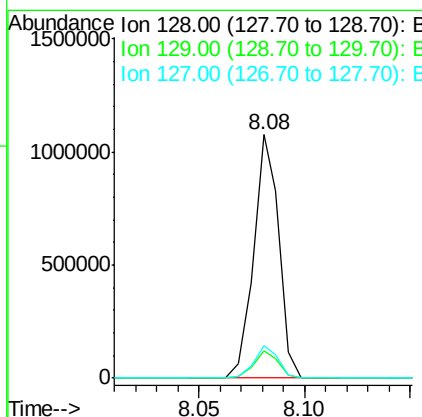
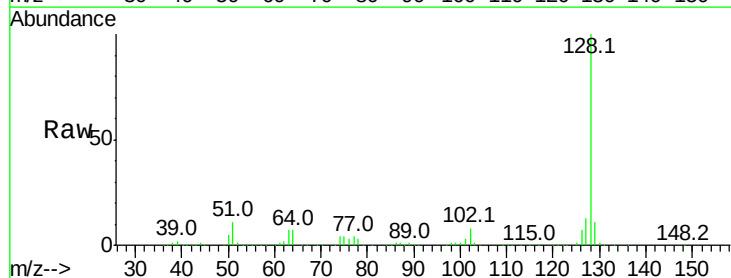
Instrument :
BNA_F
ClientSampleId :

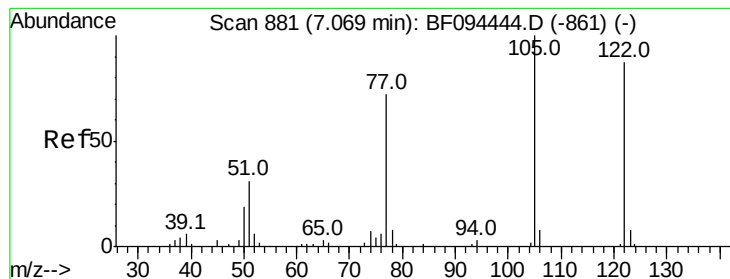
Tot Ion: 82 Resp: 20287
Ion Ratio Lower Upper
82 100
128 35.7 34.0 51.0
54 63.9 42.2 63.2#



#31
Naphthalene
Concen: 19.60 ng
RT: 8.08 min Scan# 1019
Delta R.T. -0.00 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion:128 Resp: 887254
Ion Ratio Lower Upper
128 100
129 11.0 9.0 13.6
127 13.3 10.8 16.2





#32

Benzoic acid

Concen: 8.84 ng

RT: 7.90 min Scan# 989

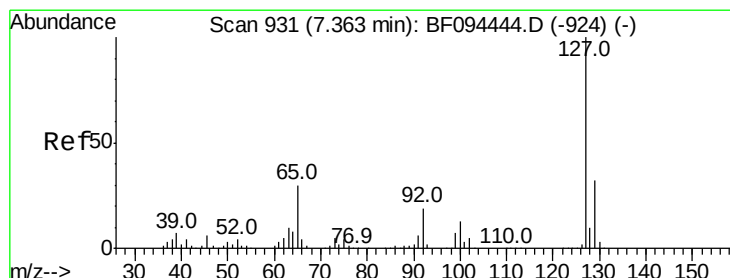
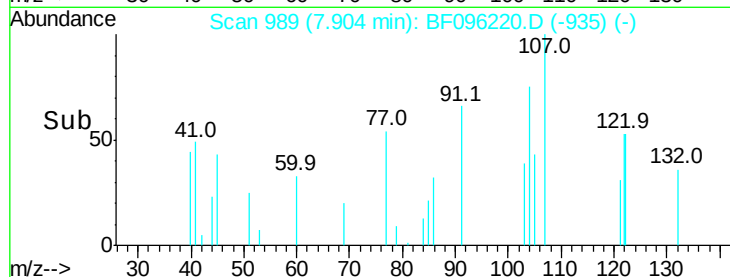
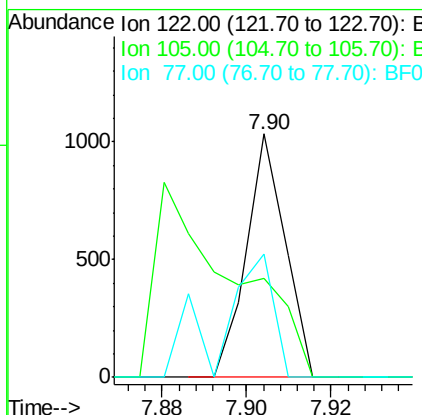
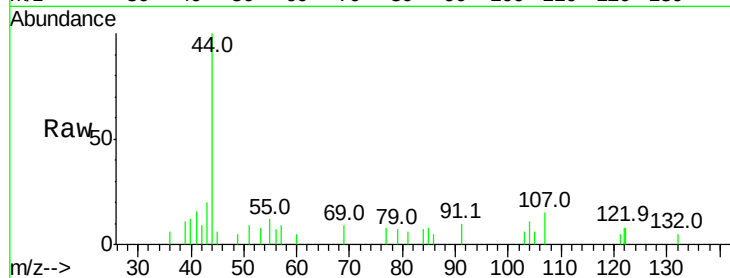
Delta R.T. 0.02 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	122	Resp:	660
Ion	Ratio	Lower	Upper
122	100		
105	40.9	103.3	143.3#
77	50.8	73.7	113.7#



#33

4-Chloroaniline

Concen: 6.17 ng

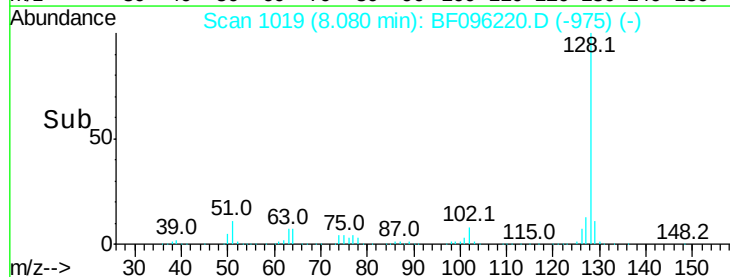
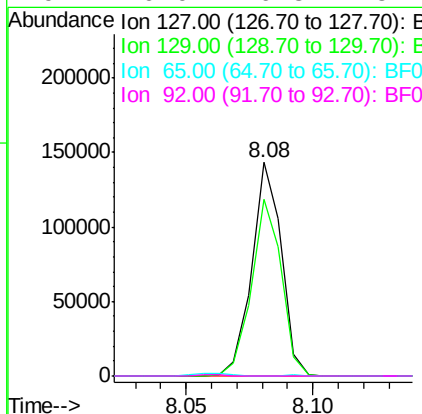
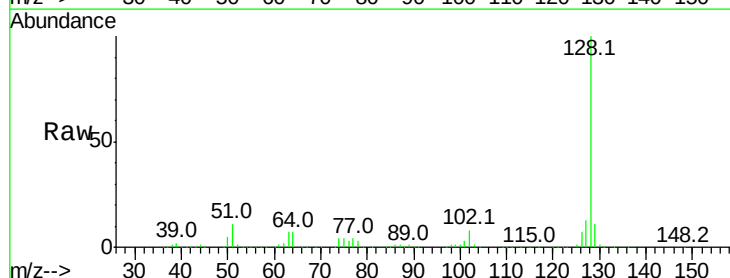
RT: 8.08 min Scan# 1019

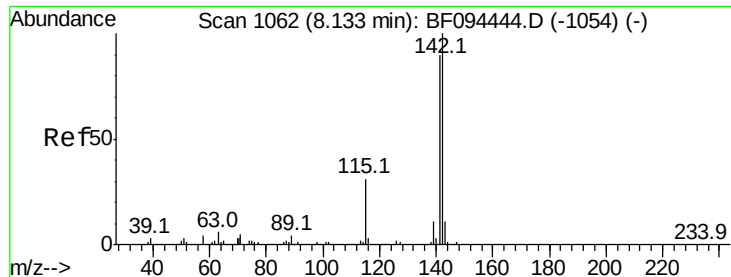
Delta R.T. -0.04 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Tgt Ion:	127	Resp:	115631
Ion	Ratio	Lower	Upper
127	100		
129	82.6	26.2	39.2#
65	0.0	27.8	41.8#
92	0.0	16.8	25.2#

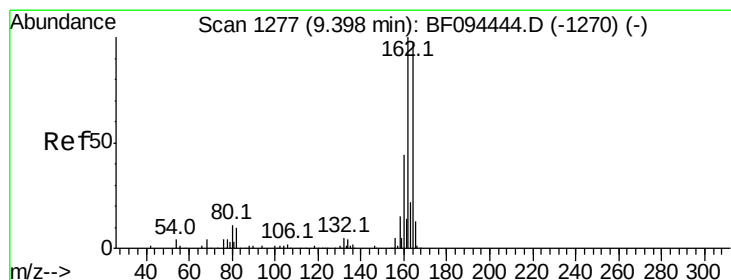
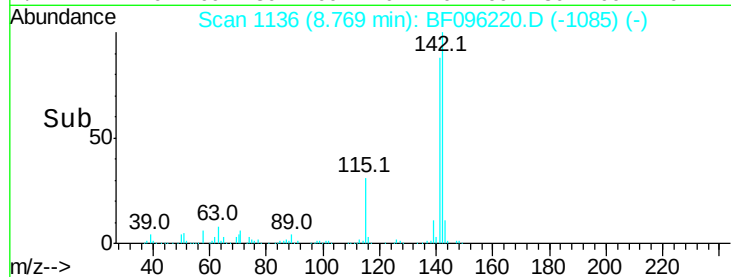
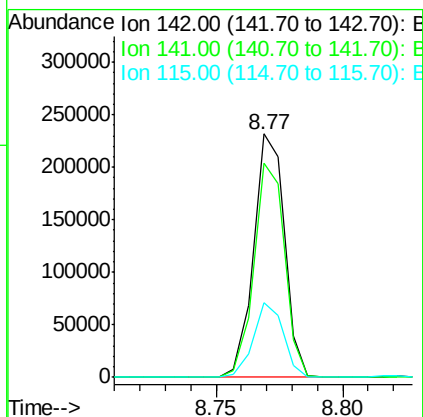
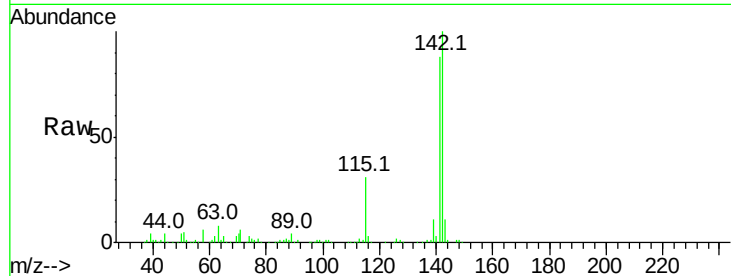




#37
2-Methylnaphthalene
Concen: 6.73 ng
RT: 8.77 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

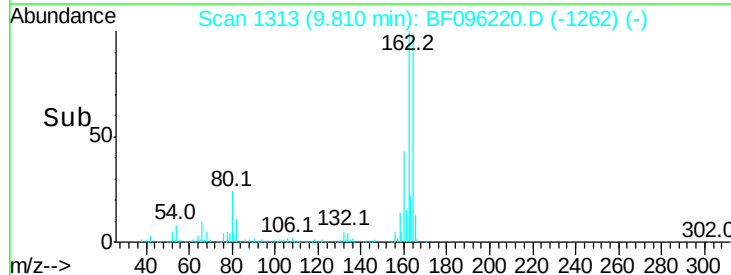
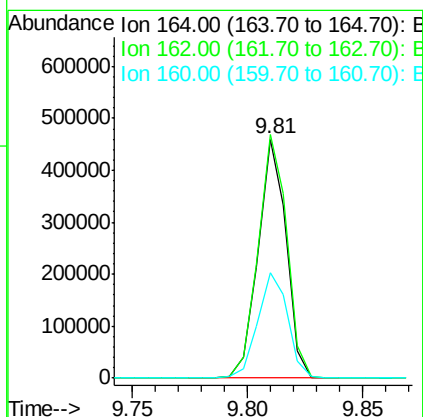
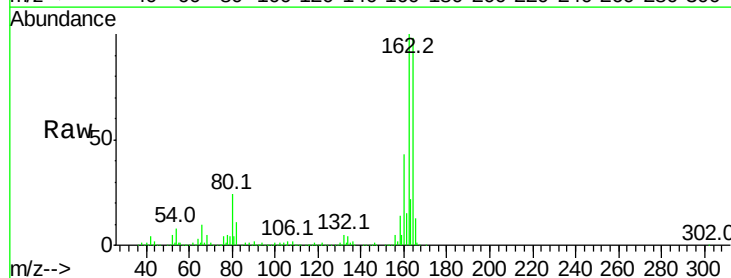
Instrument :
BNA_F
ClientSampleId :

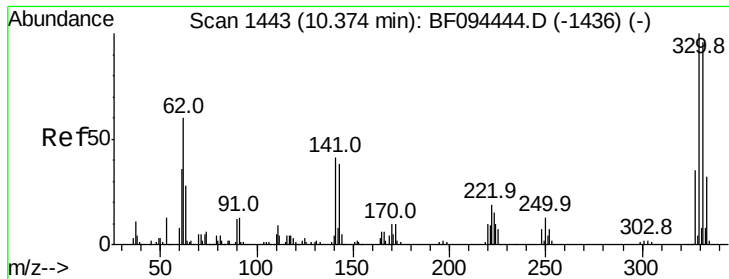
Tot Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.3	106.9
115	30.8	27.1	40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 1313
Delta R.T. -0.00 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.6	123.8
160	44.1	36.2	54.2

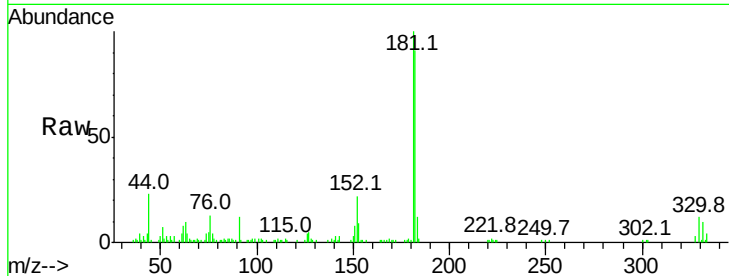




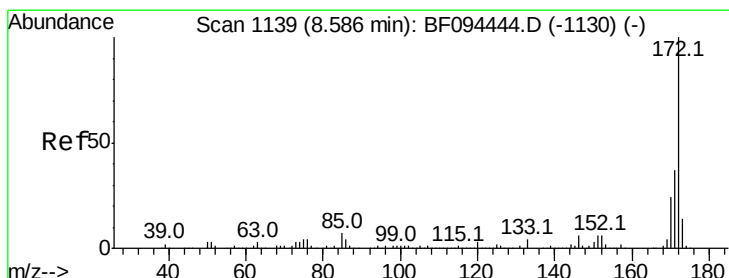
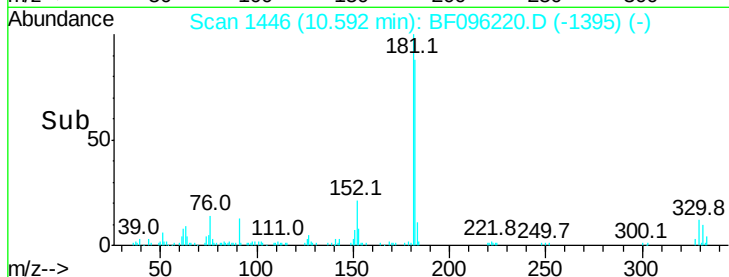
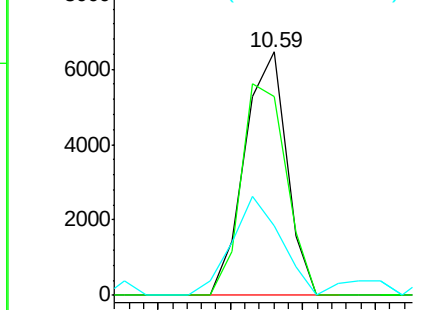
#41
 2,4,6-Tribromophenol
 Concen: 1.70 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. -0.00 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 5208
 Ion Ratio Lower Upper
 330 100
 332 93.0 76.6 115.0
 141 47.3 31.4 47.2#

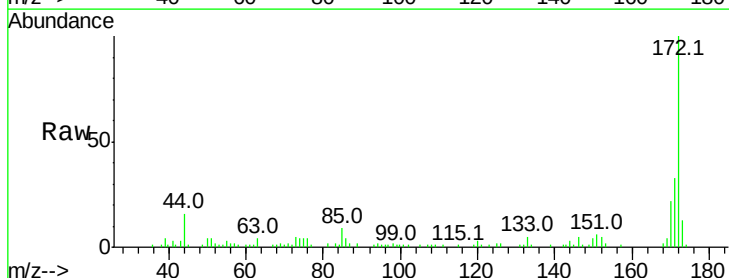


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

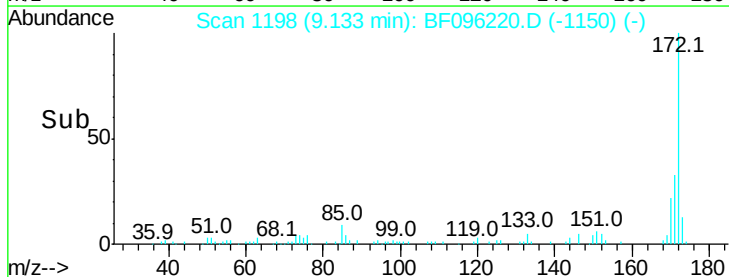
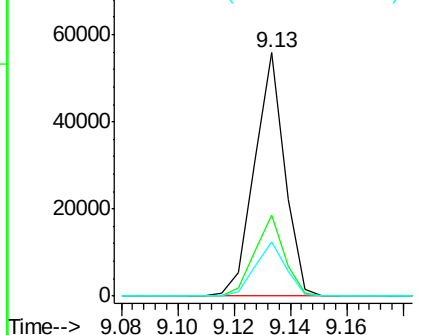


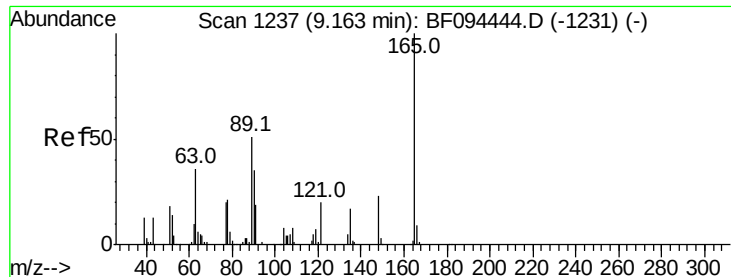
#44
 2-Fluorobiphenyl
 Concen: 1.93 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Tgt Ion:172 Resp: 41176
 Ion Ratio Lower Upper
 172 100
 171 33.3 29.6 44.4
 170 22.4 19.8 29.8



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

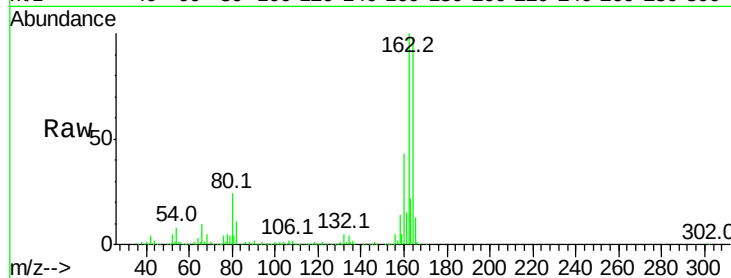




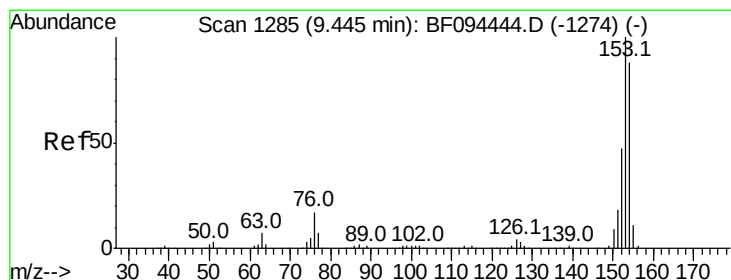
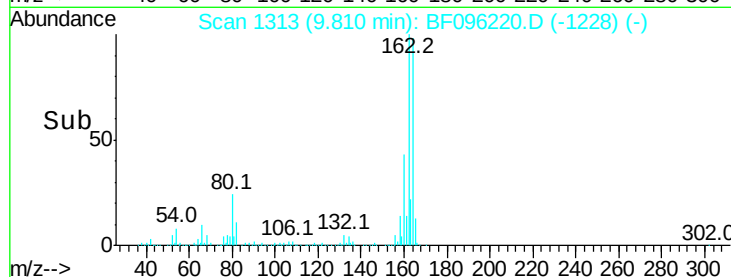
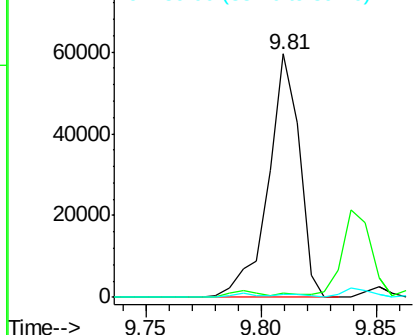
#50
2,6-Dinitrotoluene
Concen: 9.56 ng
RT: 9.81 min Scan# 1313
Delta R.T. 0.20 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 55502
Ion Ratio Lower Upper
165 100
63 1.8 34.3 51.5#
89 1.0 37.1 55.7#

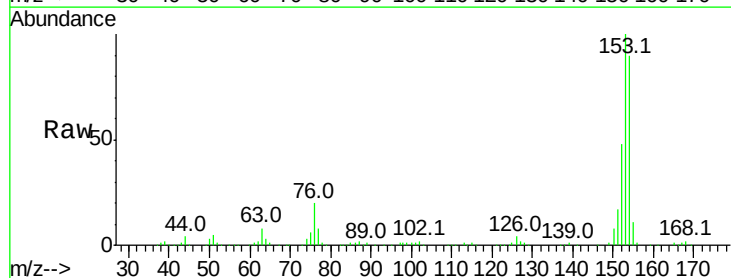


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

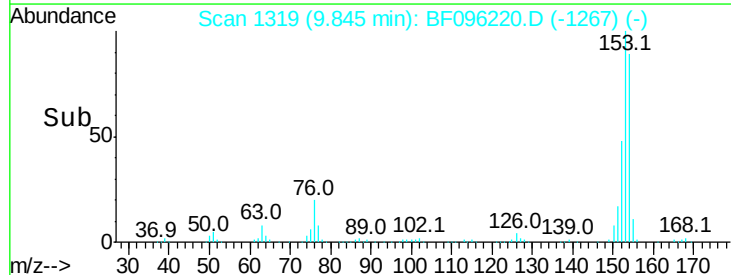
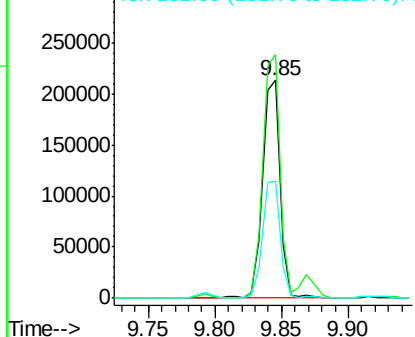


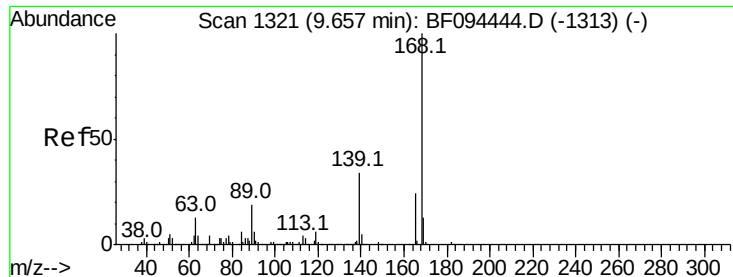
#51
Acenaphthene
Concen: 7.94 ng
RT: 9.85 min Scan# 1319
Delta R.T. 0.01 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion:154 Resp: 192621
Ion Ratio Lower Upper
154 100
153 111.7 90.5 135.7
152 53.8 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 7.88 ng

RT: 10.02 min Scan# 1348

Delta R.T. -0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

ClientSampleId :

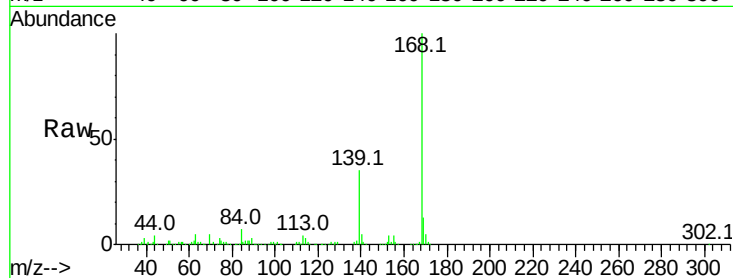
Tot Ion:168 Resp: 249694

Ion Ratio Lower Upper

168 100

139 35.4 30.6 45.8

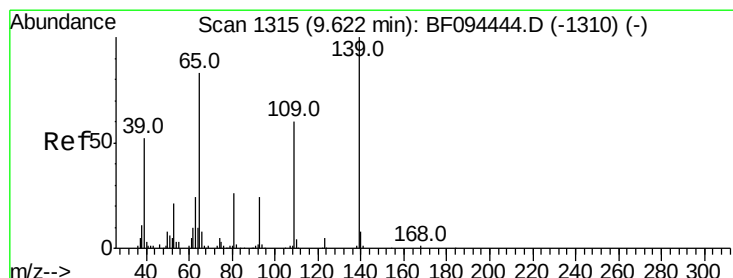
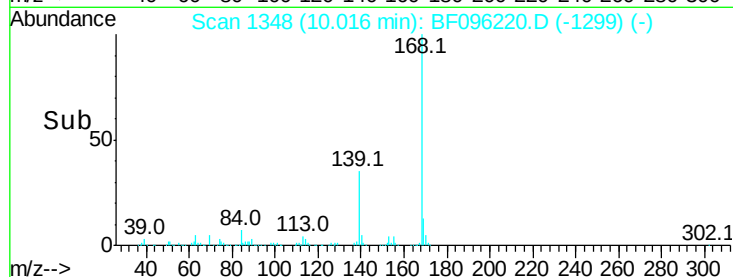
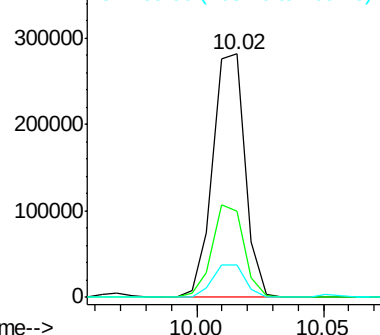
169 13.4 10.8 16.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 15.48 ng

RT: 10.01 min Scan# 1347

Delta R.T. 0.08 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

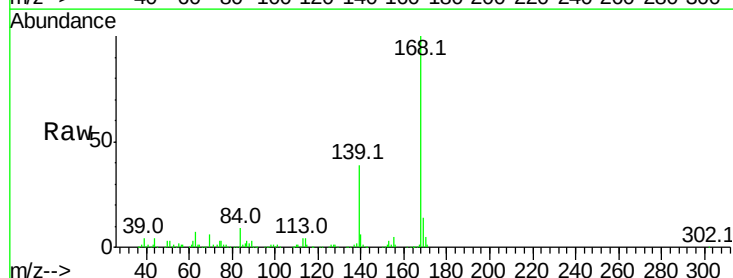
Tgt Ion:139 Resp: 93125

Ion Ratio Lower Upper

139 100

109 0.8 34.1 74.1#

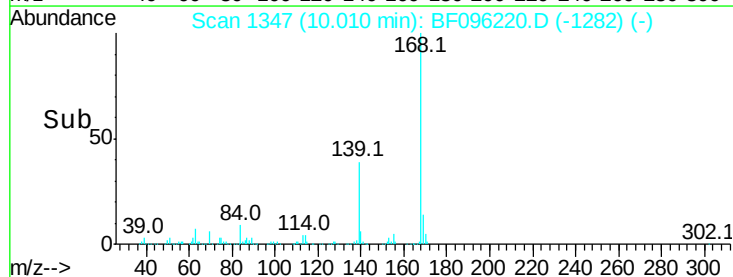
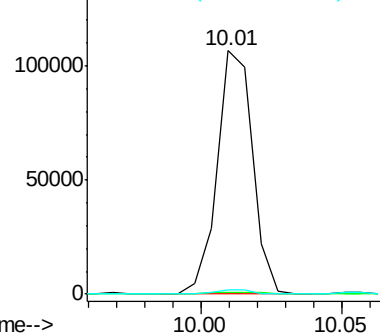
65 2.0 31.4 71.4#

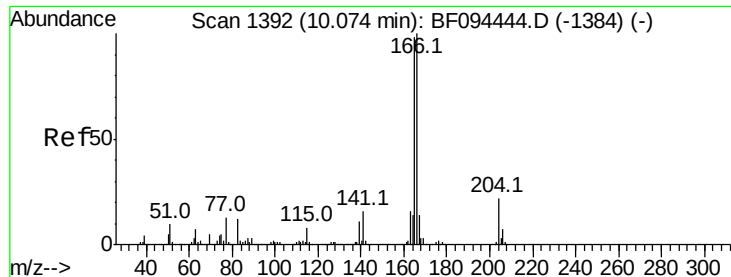


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

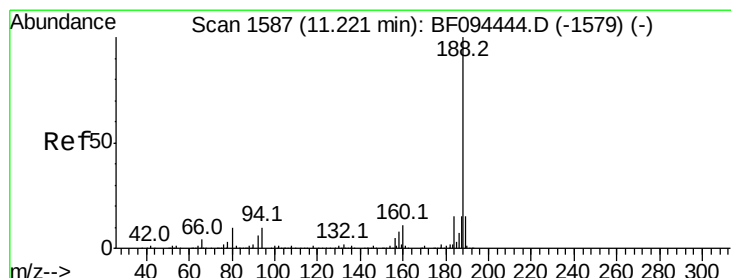
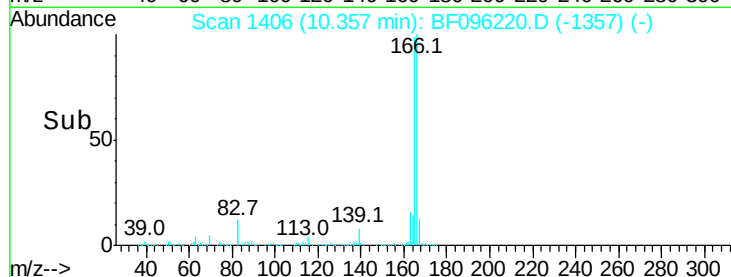
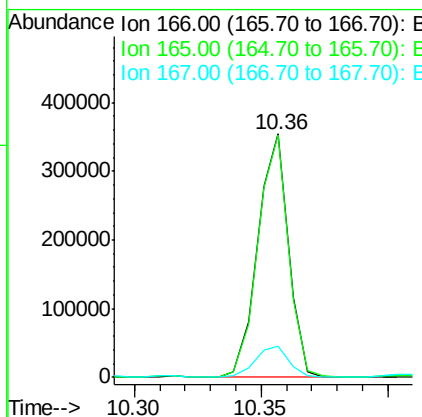
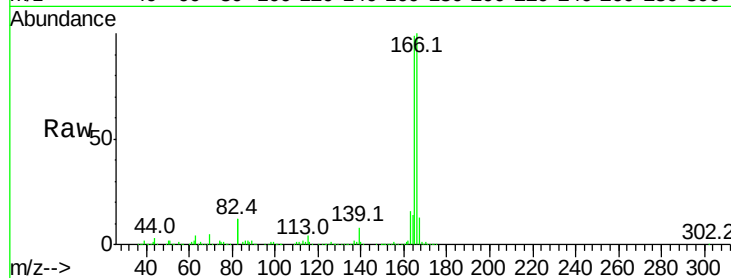




#57
Fluorene
 Concen: 13.65 ng
 RT: 10.36 min Scan# 1406
 Delta R.T. -0.01 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

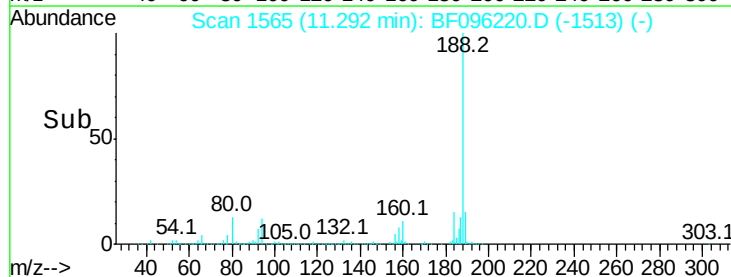
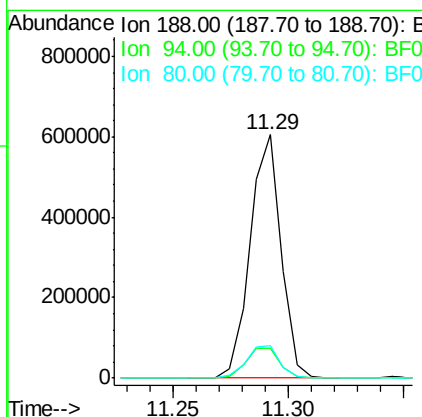
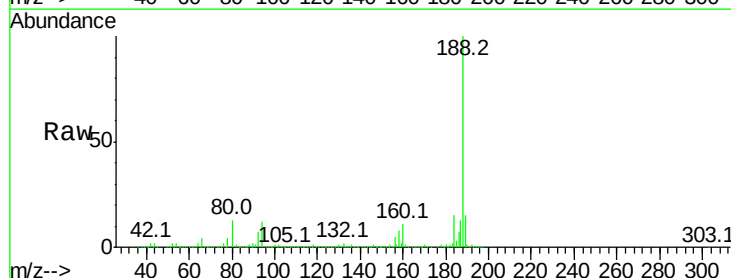
Instrument :
 BNA_F
 ClientSampleId :

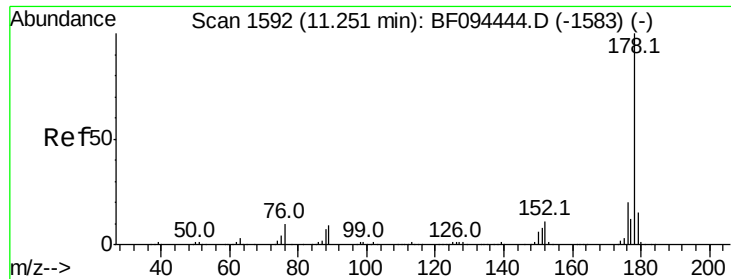
Tot Ion:166 Resp: 297675
 Ion Ratio Lower Upper
 166 100
 165 99.5 78.8 118.2
 167 13.0 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.29 min Scan# 1565
 Delta R.T. 0.01 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Tgt Ion:188 Resp: 565162
 Ion Ratio Lower Upper
 188 100
 94 12.2 9.4 14.2
 80 13.1 10.2 15.2





#70

Phenanthrene

Concen: 41.61 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

ClientSampleId :

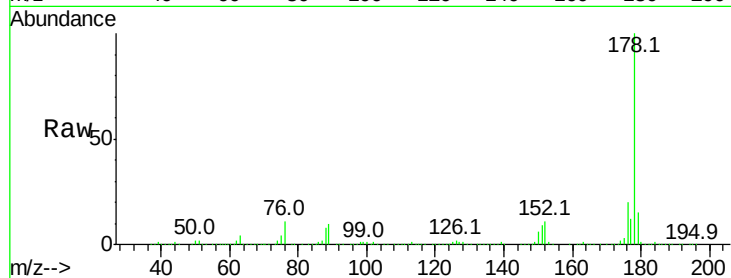
Tot Ion:178 Resp: 1195659

Ion Ratio Lower Upper

178 100

176 19.6 16.2 24.4

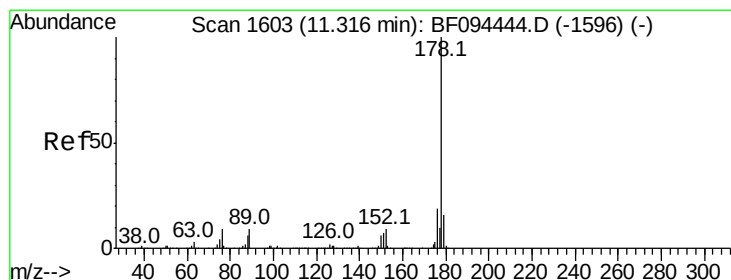
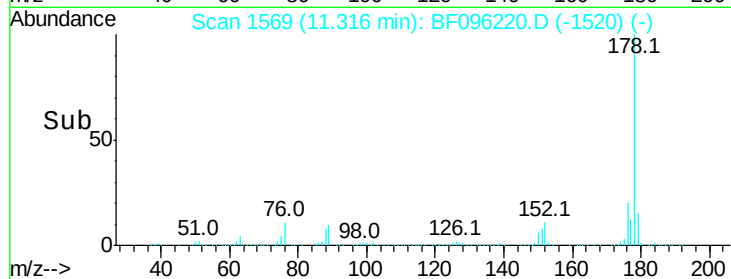
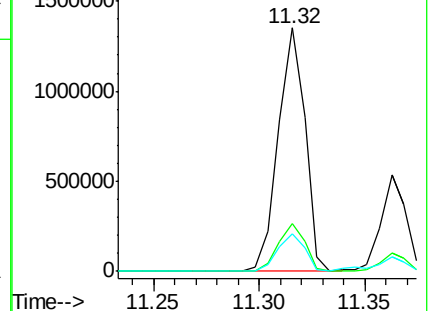
179 15.3 12.6 19.0



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: 13.78 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

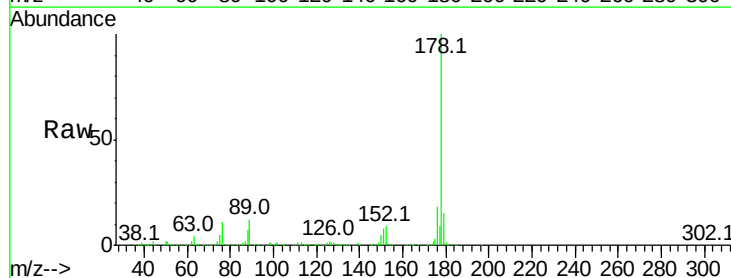
Tgt Ion:178 Resp: 435255

Ion Ratio Lower Upper

178 100

176 18.5 15.8 23.8

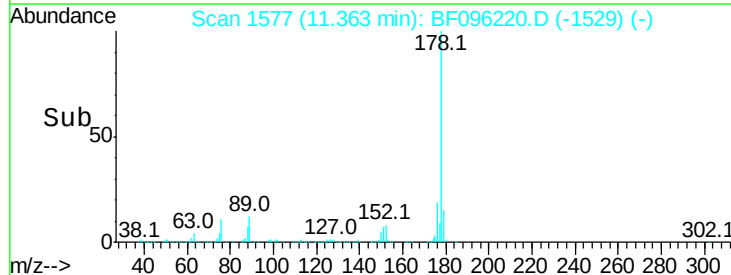
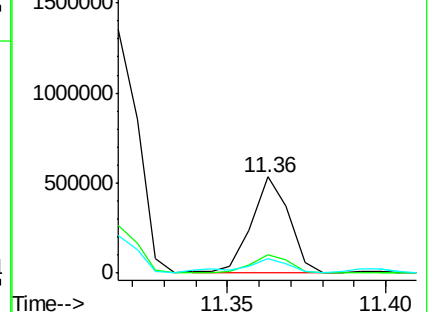
179 14.9 12.7 19.1

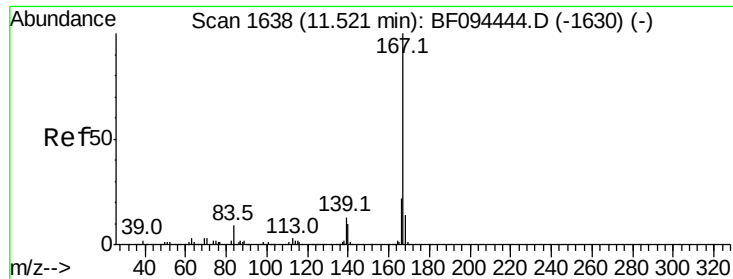


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.86 ng

RT: 11.51 min Scan# 1602

Delta R.T. -0.00 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

ClientSampled :

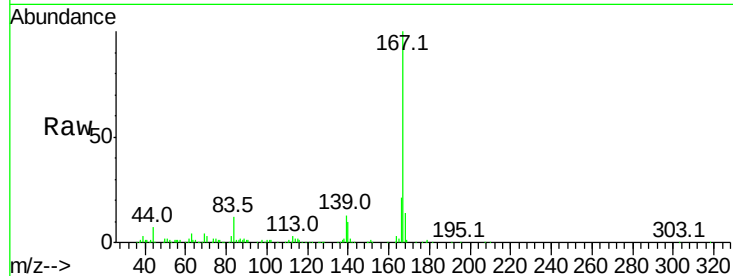
Tot Ion:167 Resp: 169544

Ion Ratio Lower Upper

167 100

166 20.7 18.1 27.1

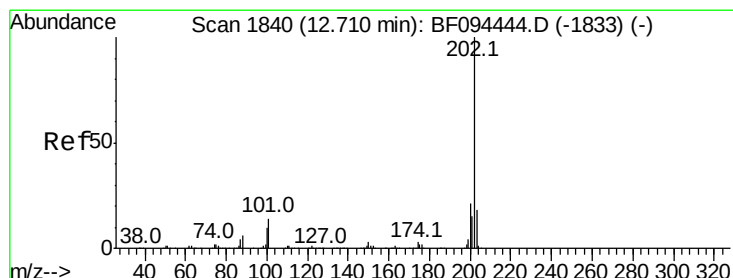
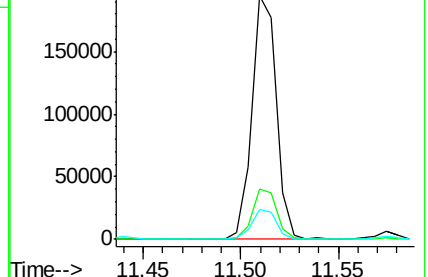
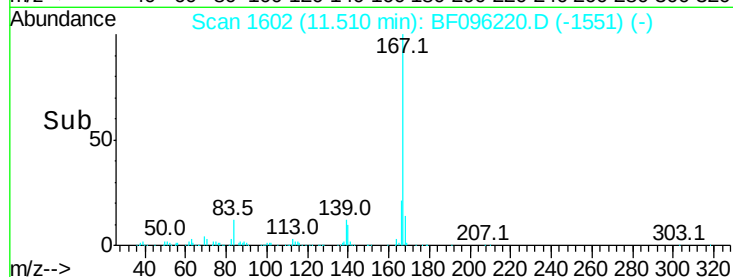
139 12.5 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 27.99 ng

RT: 12.50 min Scan# 1770

Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

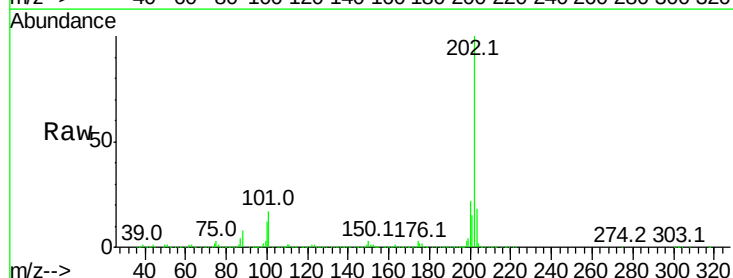
Tgt Ion:202 Resp: 878848

Ion Ratio Lower Upper

202 100

101 16.7 0.0 33.2

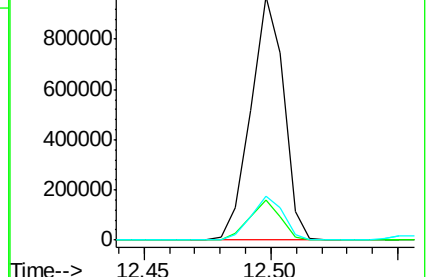
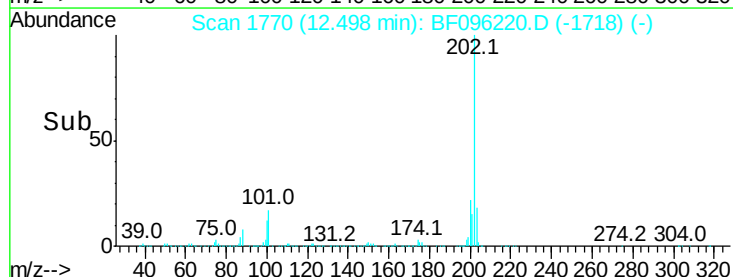
203 17.9 0.0 38.1

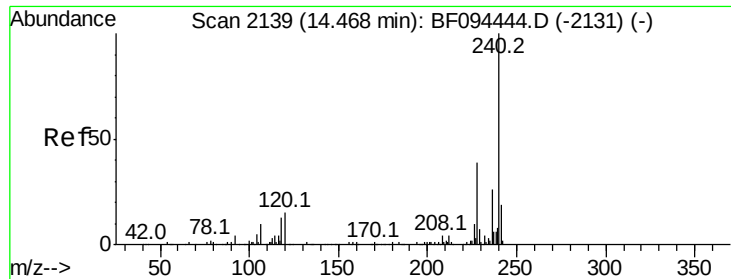


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

ClientSampleId :

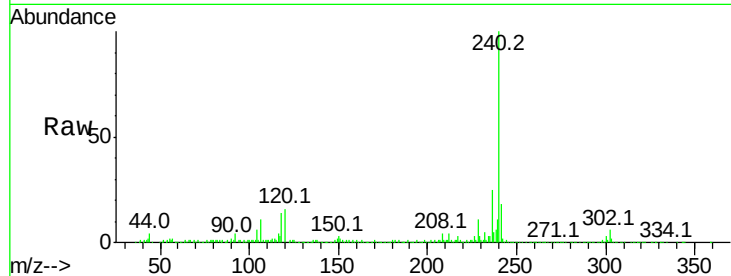
Tot Ion:240 Resp: 385017

Ion Ratio Lower Upper

240 100

120 16.0 5.8 8.8#

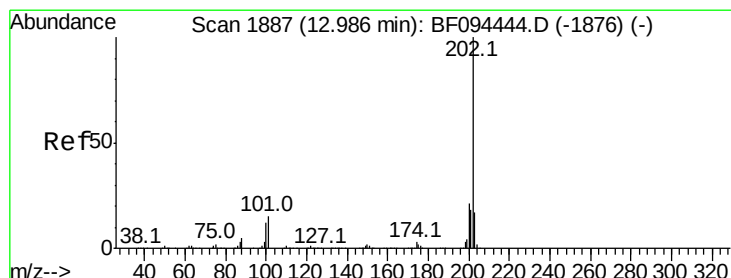
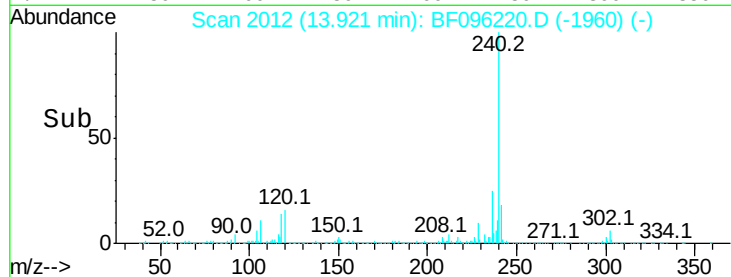
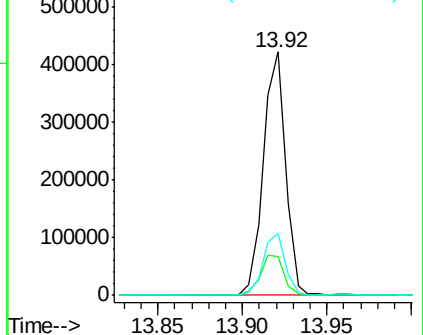
236 25.3 20.5 30.7



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

Pyrene

Concen: 22.96 ng

RT: 12.73 min Scan# 1809

Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

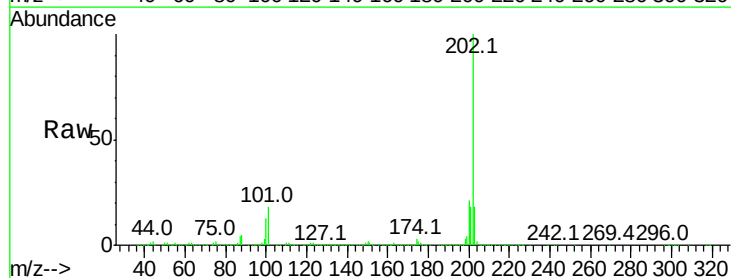
Tgt Ion:202 Resp: 726597

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

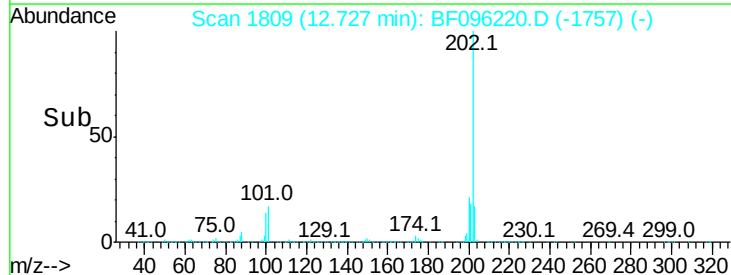
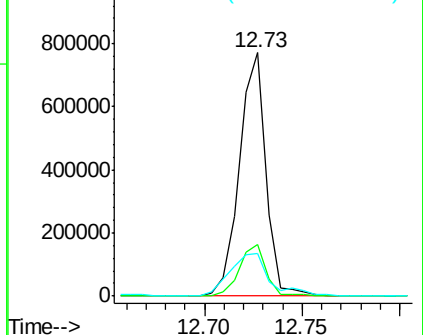
203 17.7 14.4 21.6

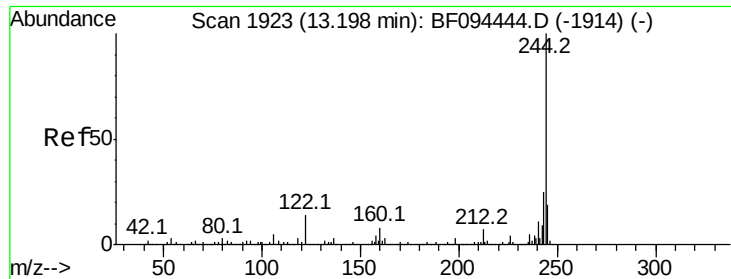


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

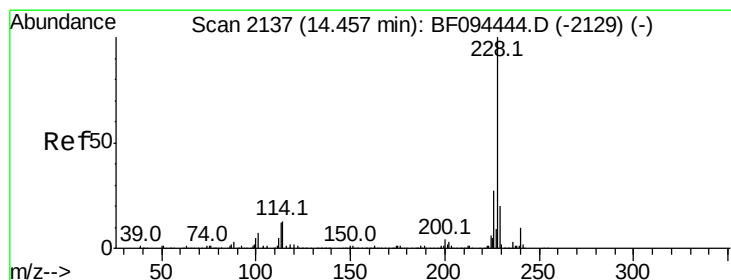
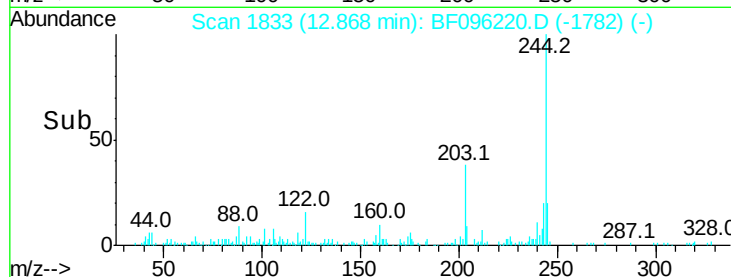
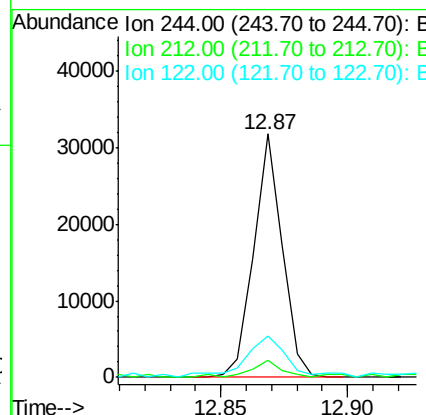
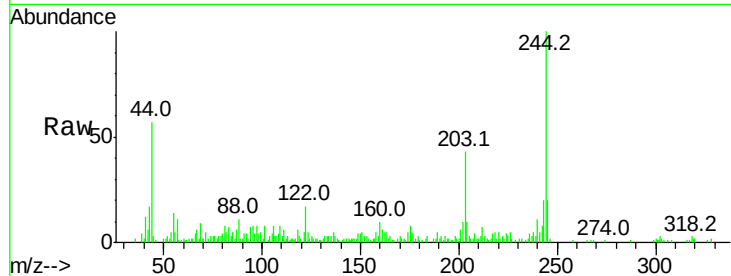




#78
 Terphenyl-d14
 Concen: 1.61 ng
 RT: 12.87 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

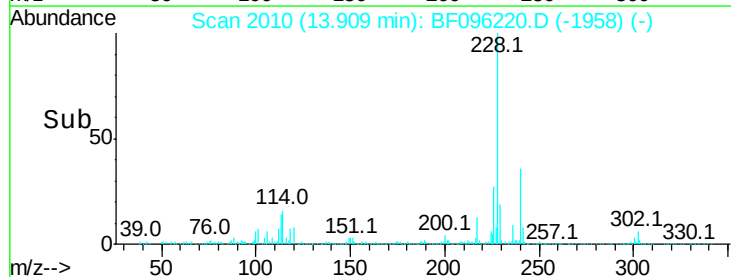
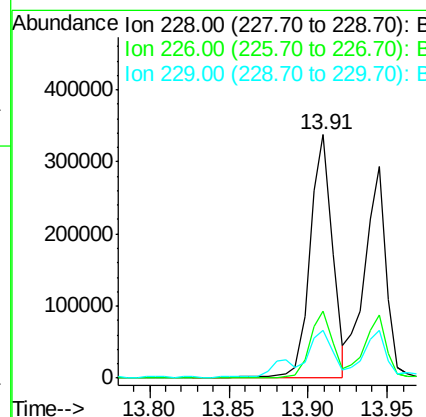
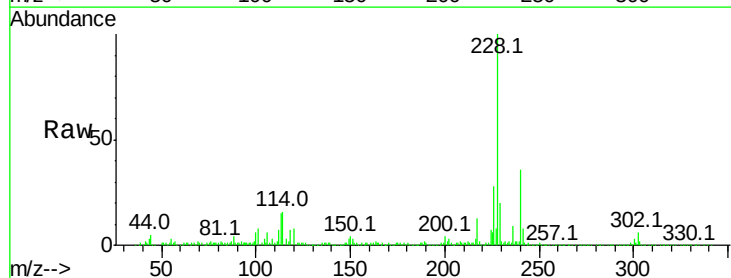
Instrument :
 BNA_F
 ClientSampleId :

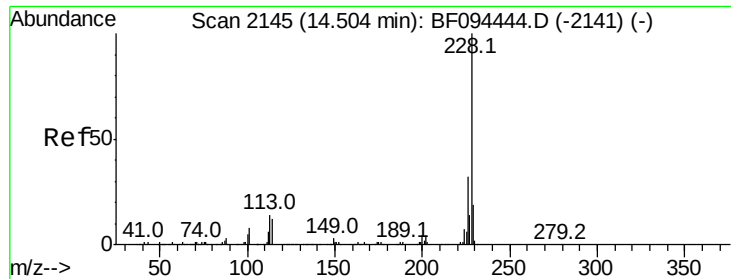
Tot Ion:244 Resp: 24915
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.0 9.0
 122 17.1 10.3 15.5#



#80
 Benzo(a)anthracene
 Concen: 13.94 ng
 RT: 13.91 min Scan# 2010
 Delta R.T. 0.01 min
 Lab File: BF096220.D
 Acq: 27 Jun 2017 17:07

Tgt Ion:228 Resp: 327265
 Ion Ratio Lower Upper
 228 100
 226 27.6 22.6 33.8
 229 19.6 16.3 24.5





#82

Chrysene

Concen: 11.62 ng

RT: 13.94 min Scan# 2016

Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

ClientSampleId :

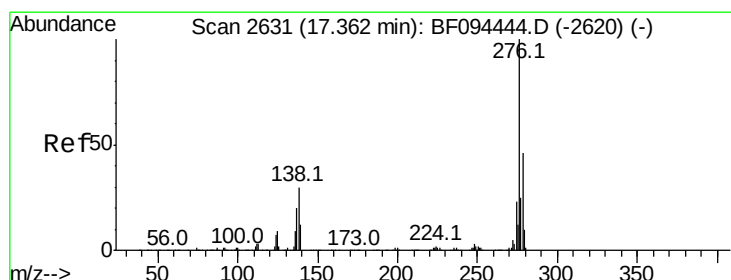
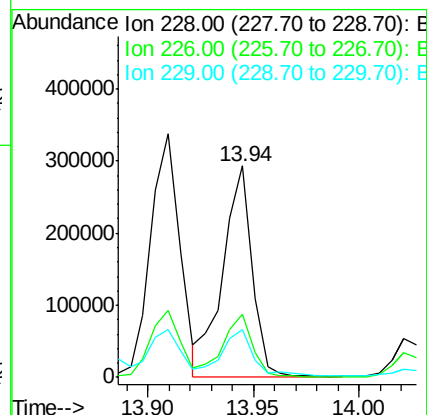
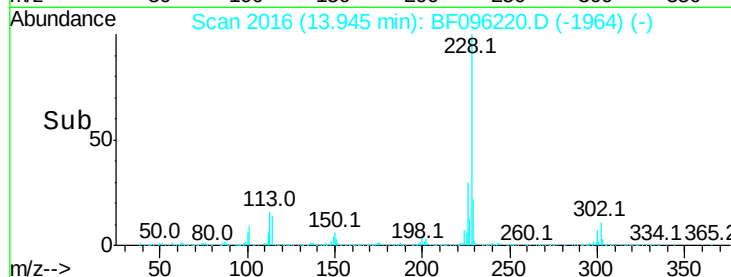
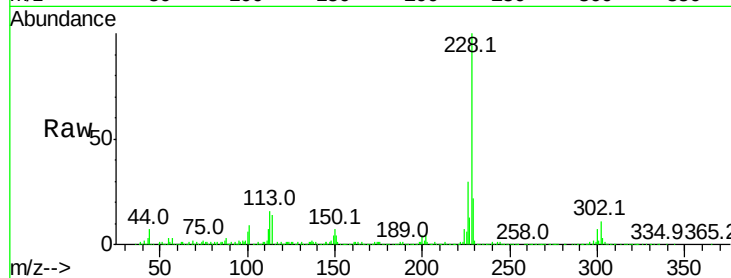
Tot Ion:228 Resp: 282153

Ion Ratio Lower Upper

228 100

226 29.8 24.9 37.3

229 22.4 15.8 23.6



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.09 ng

RT: 16.73 min Scan# 2489

Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

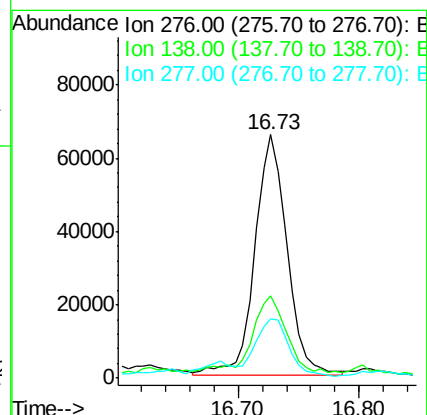
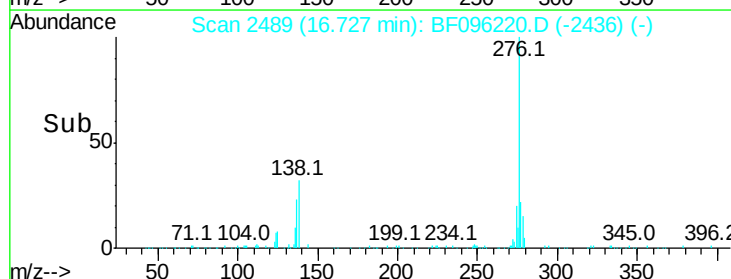
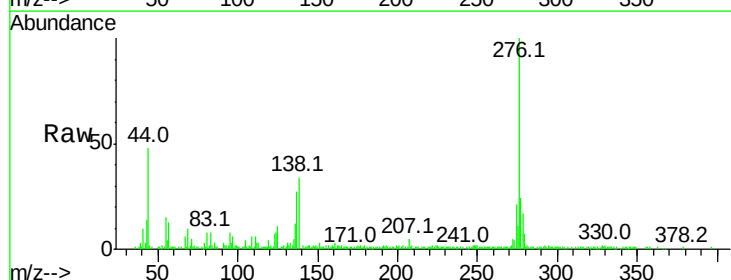
Tgt Ion:276 Resp: 122707

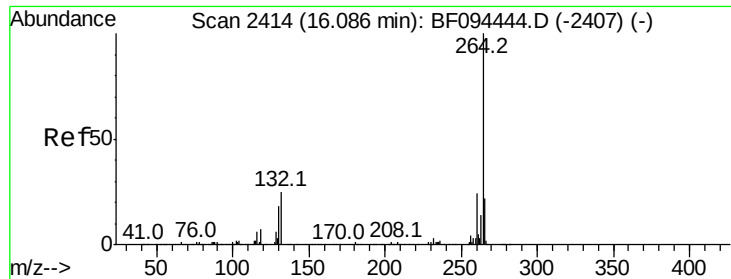
Ion Ratio Lower Upper

276 100

138 34.0 27.8 41.6

277 24.2 20.2 30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.34 min Scan# 2254

Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

ClientSampleId :

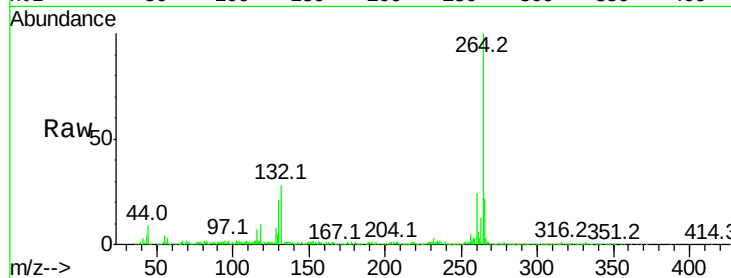
Tot Ion:264 Resp: 381815

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.5	29.3
265	22.0	17.2	25.8

264 100

260 24.5 19.5 29.3

265 22.0 17.2 25.8

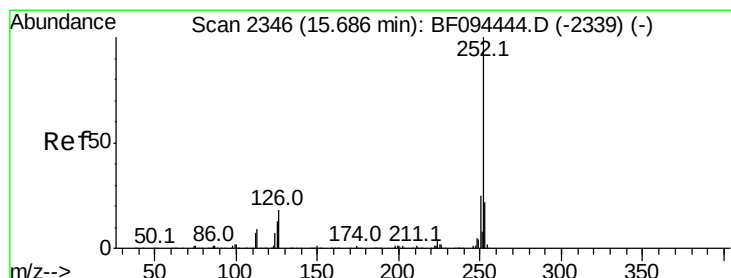
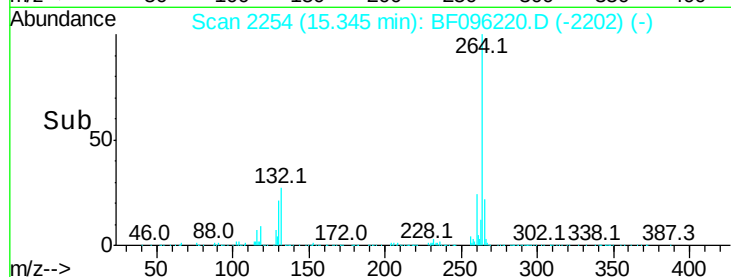
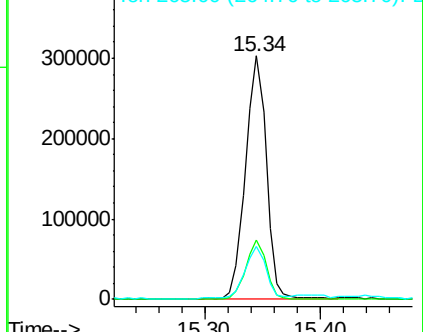


Abundance

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: 18.58 ng

RT: 14.93 min Scan# 2184

Delta R.T. -0.02 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

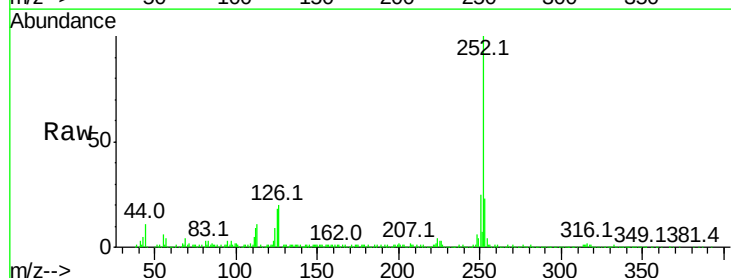
Tgt Ion:252 Resp: 466041

Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	18.4	9.8	14.8

252 100

253 23.2 18.1 27.1

125 18.4 9.8 14.8

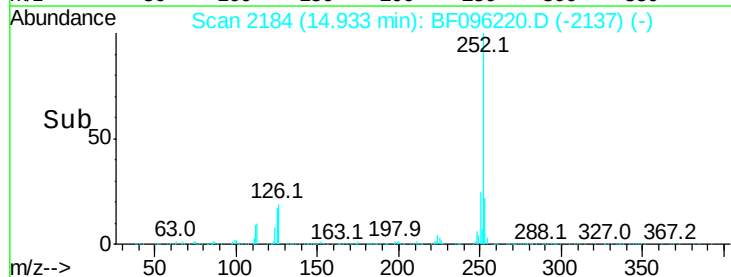
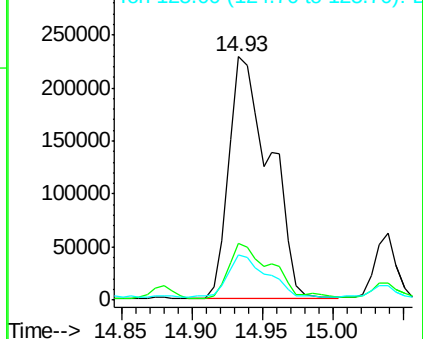


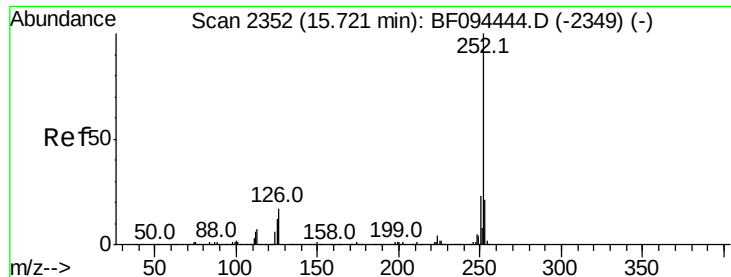
Abundance

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

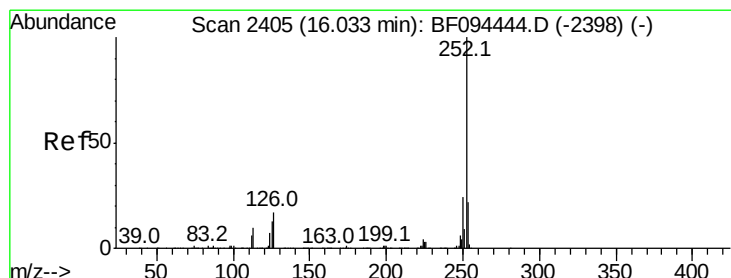
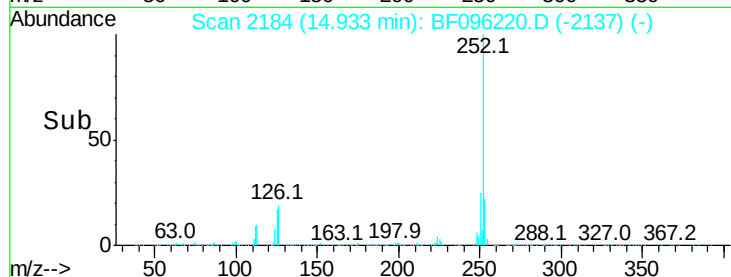
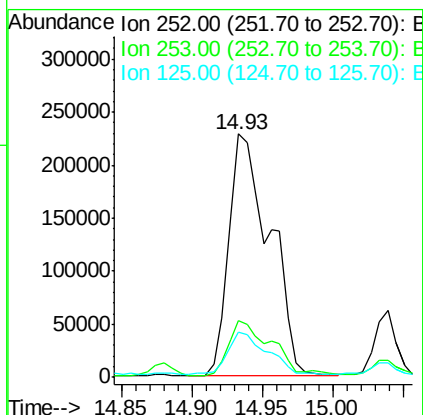
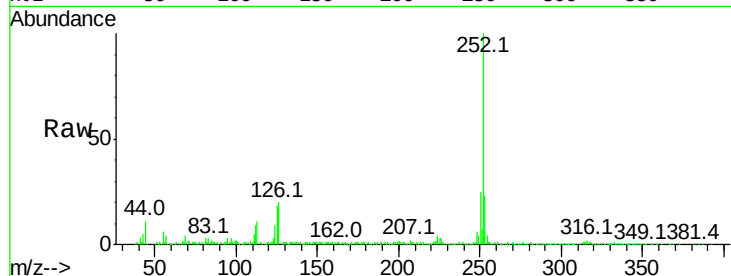




#88
Benzo(k)fluoranthene
Concen: 20.35 ng
RT: 14.93 min Scan# 2184
Delta R.T. -0.02 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

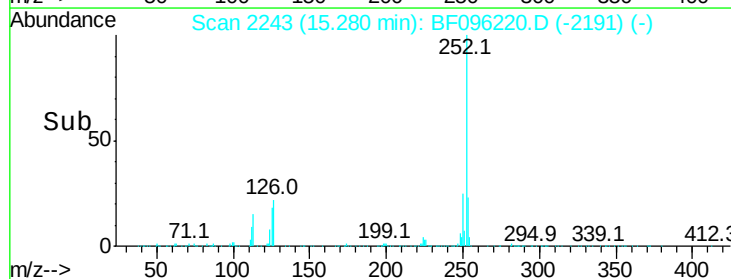
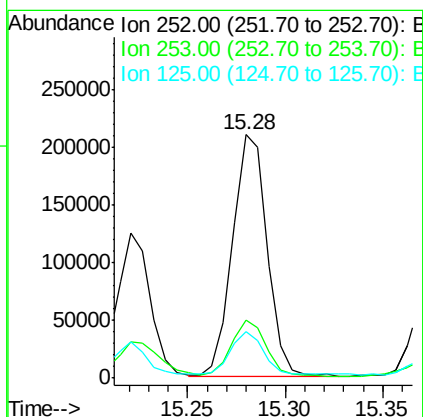
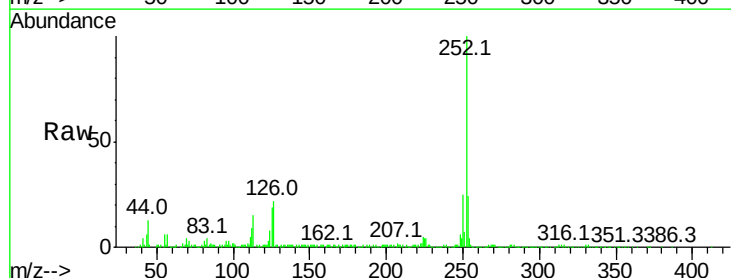
Instrument :
BNA_F
ClientSampleId :

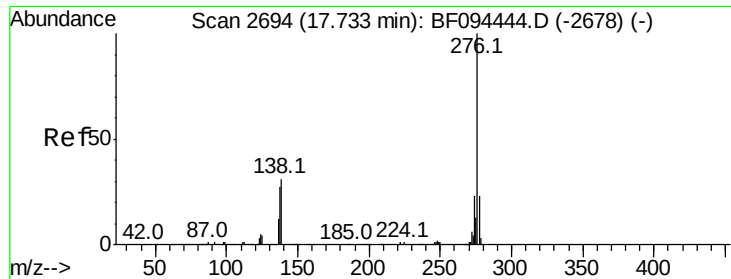
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	18.4	13.1	19.7



#89
Benzo(a)pyrene
Concen: 11.69 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF096220.D
Acq: 27 Jun 2017 17:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	19.3	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 5.80 ng

RT: 17.14 min Scan# 2559

Delta R.T. 0.01 min

Lab File: BF096220.D

Acq: 27 Jun 2017 17:07

Instrument :

BNA_F

ClientSampleId :

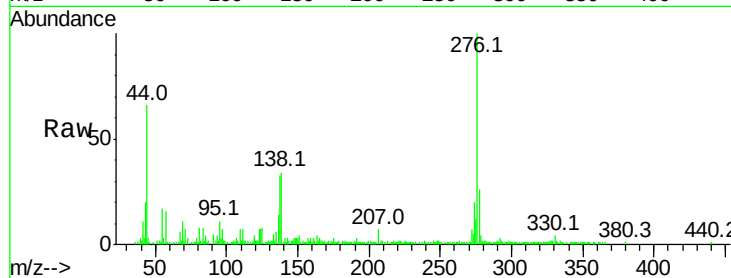
Tot Ion:276 Resp: 104603

Ion Ratio Lower Upper

276 100

277 25.6 18.6 28.0

138 33.9 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

