

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
 Data File : BF096023.D
 Acq On : 20 Jun 2017 2:29
 Operator : SJ/MA
 Sample : I3688-06
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

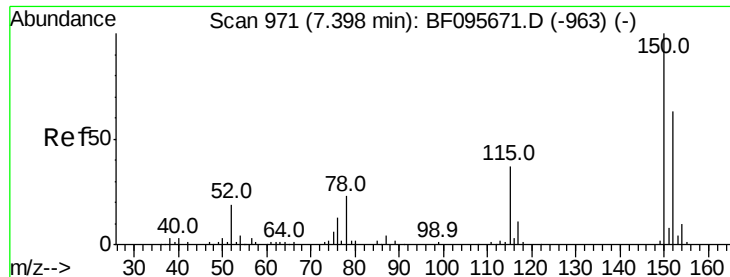
Quant Time: Jun 20 04:06:31 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 16 17:12:03 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.30	152	73739	20.00	ng	-0.02
21) Naphthalene-d8	9.33	136	290124	20.00	ng	-0.02
38) Acenaphthene-d10	12.16	164	114527	20.00	ng	-0.02
63) Phenanthrene-d10	14.55	188	165612	20.00	ng	-0.02
75) Chrysene-d12	18.28	240	139271	20.00	ng	-0.02
86) Perylene-d12	19.96	264	115182	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.19	112	615079	132.91	ng	-0.02
7) Phenol-d6	6.88	99	727788	131.37	ng	-0.03
23) Nitrobenzene-d5	8.23	82	420839	90.09	ng	-0.02
41) 2,4,6-Tribromophenol	13.46	330	105721	104.33	ng	-0.02
44) 2-Fluorobiphenyl	11.12	172	750590	91.20	ng	-0.02
78) Terphenyl-d14	16.93	244	436823	77.84	ng	-0.02

Target Compounds						Qvalue
2) 1,4-Dioxane	1.56	88	9894	4.49	ng	# 21
19) n-Nitroso-di-n-propylamine	8.23	70	53004	15.10	ng	# 75
31) Naphthalene	9.37	128	99625	6.84	ng	98
32) Benzoic acid	9.30	122	114	5.16	ng	# 31
33) 4-Chloroaniline	9.37	127	14006	2.46	ng	# 34
37) 2-Methylnaphthalene	10.50	142	67749	6.89	ng	95
48) Acenaphthylene	11.93	152	60176	4.77	ng	99
49) Dimethylphthalate	11.82	163	233344	26.83	ng	98
54) Dibenzofuran	12.50	168	40258	3.93	ng	98
55) 4-Nitrophenol	12.50	139	15822	16.18	ng	# 28
70) Phenanthrene	14.59	178	150385	15.74	ng	98
71) Anthracene	14.59	178	150385	15.07	ng	98
72) Carbazole	15.00	167	21671	2.23	ng	97
73) Di-n-butylphthalate	15.57	149	23190	2.24	ng	99
74) Fluoranthene	16.37	202	271049	28.66	ng	99
77) Pyrene	16.68	202	253761	24.42	ng	97
80) Benzo(a)anthracene	18.32	228	185651	22.93	ng	97
82) Chrysene	18.32	228	185651	22.94	ng	98
83) Bis(2-ethylhexyl)phthalate	18.35	149	24654	3.85	ng	# 99
85) Indeno(1,2,3-cd)pyrene	21.12	276	83464	12.05	ng	95
87) Benzo(b)fluoranthene	19.55	252	338897	46.99	ng	# 97
88) Benzo(k)fluoranthene	19.55	252	338897	49.16	ng	98
89) Benzo(a)pyrene	19.90	252	125684	18.96	ng	95
90) Dibenzo(a,h)anthracene	21.11	278	35780	6.36	ng	# 84
91) Benzo(g,h,i)perylene	21.45	276	75420	13.16	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.30 min Scan# 989

Delta R.T. -0.02 min

Lab File: BF096023.D

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ClientSampleId :

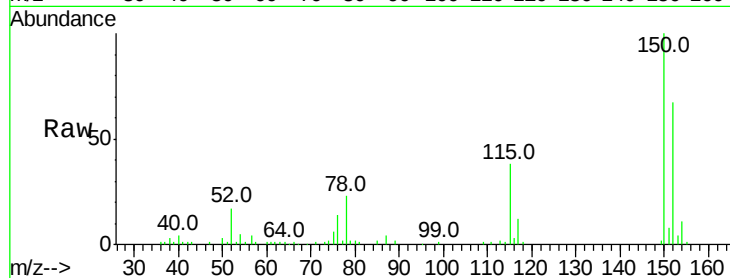
Tot Ion:152 Resp: 73739

Ion Ratio Lower Upper

152 100

150 150.2 126.2 189.2

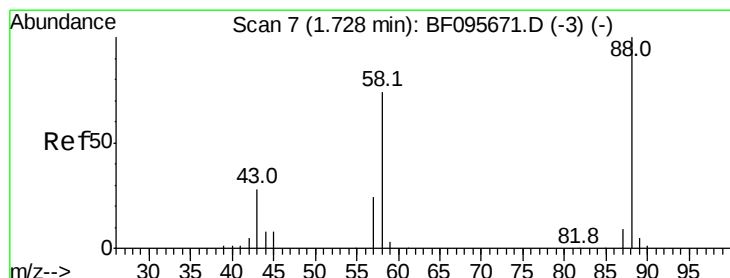
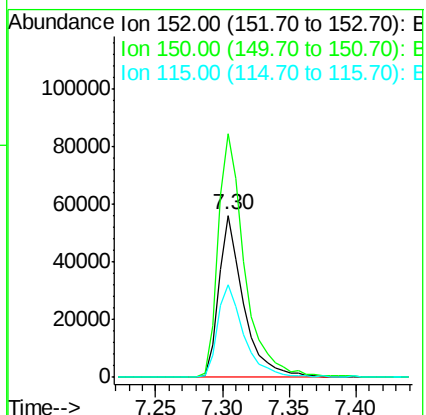
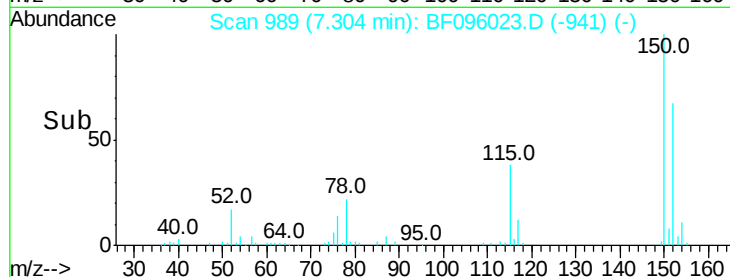
115 56.9 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 4.49 ng

RT: 1.56 min Scan# 13

Delta R.T. -0.07 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

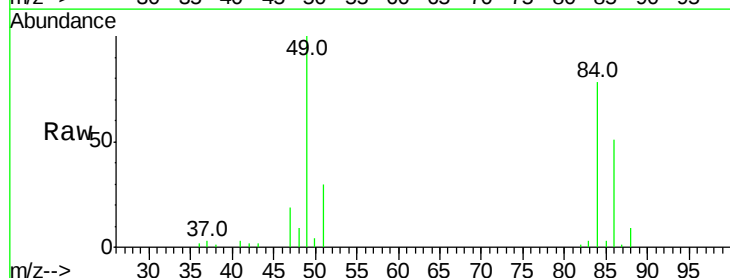
Tgt Ion: 88 Resp: 9894

Ion Ratio Lower Upper

88 100

58 0.0 61.4 92.0#

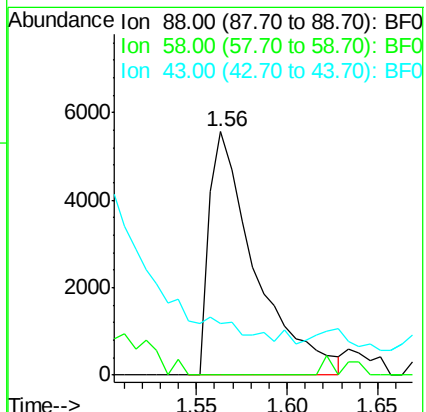
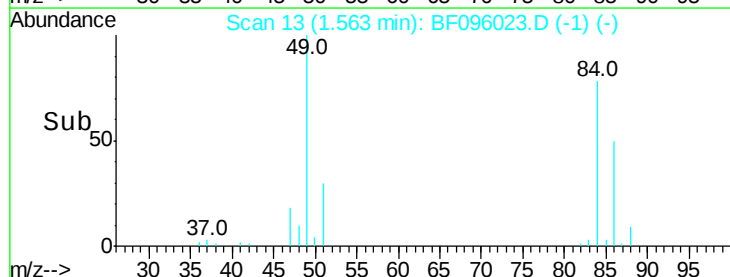
43 0.0 23.4 35.0#

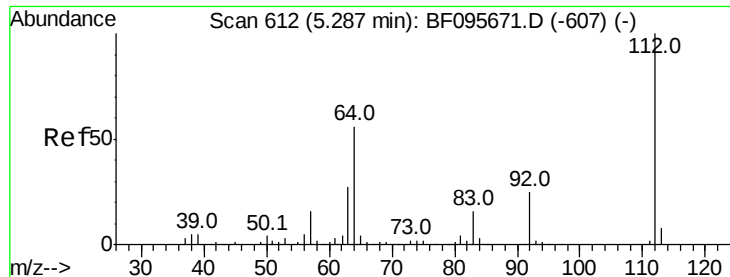


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 132.91 ng

RT: 5.19 min Scan# 630

Delta R.T. -0.02 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

Instrument :

BNA_F

ClientSampled :

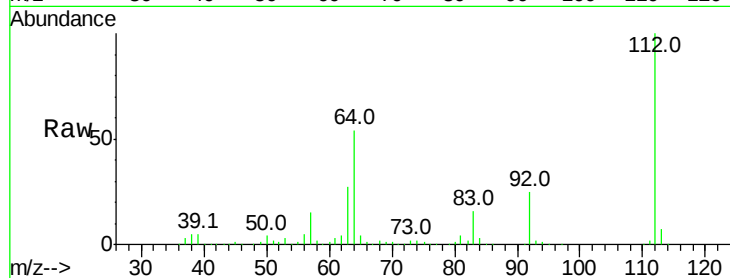
Tot Ion:112 Resp: 615079

Ion Ratio Lower Upper

112 100

64 54.3 46.0 69.0

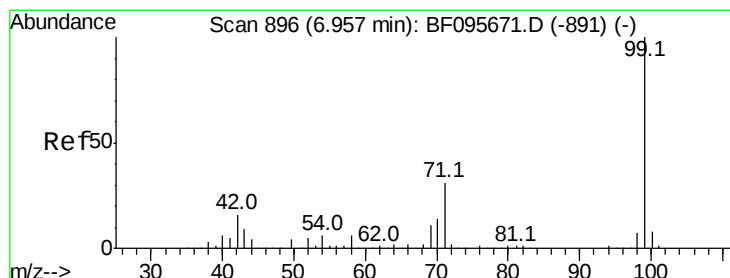
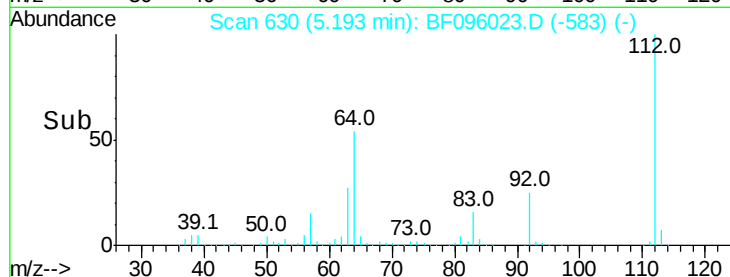
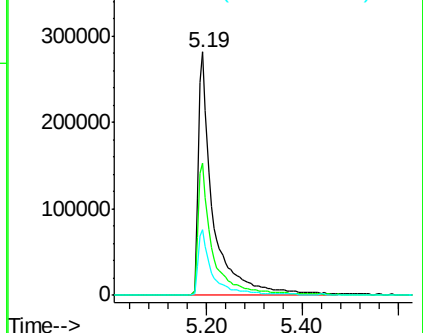
63 26.9 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 131.37 ng

RT: 6.88 min Scan# 917

Delta R.T. -0.03 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

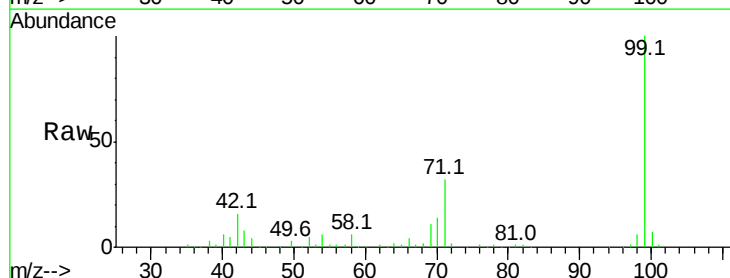
Tgt Ion: 99 Resp: 727788

Ion Ratio Lower Upper

99 100

42 15.9 13.5 20.3

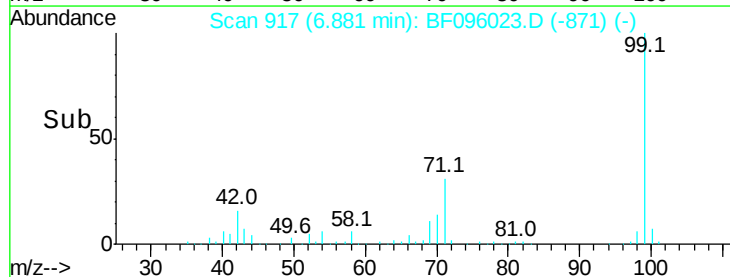
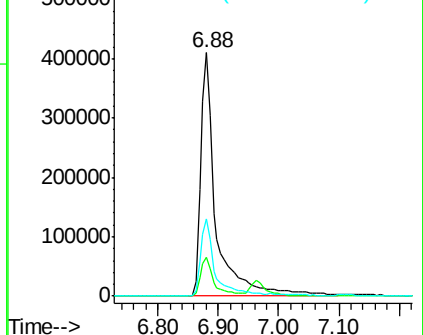
71 31.6 24.5 36.7

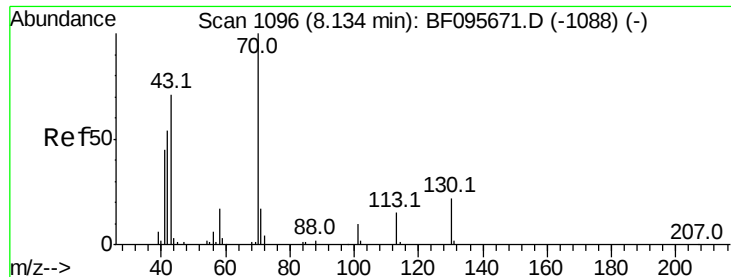


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

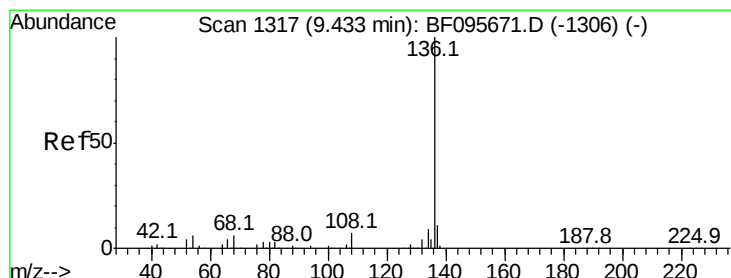
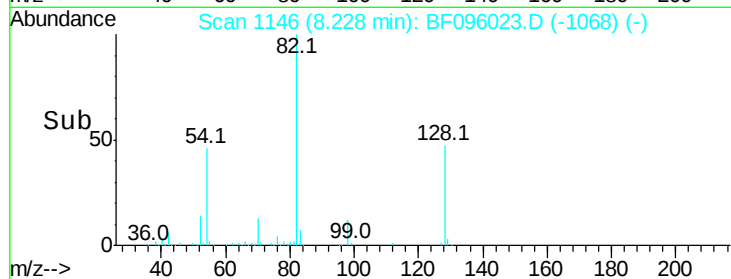
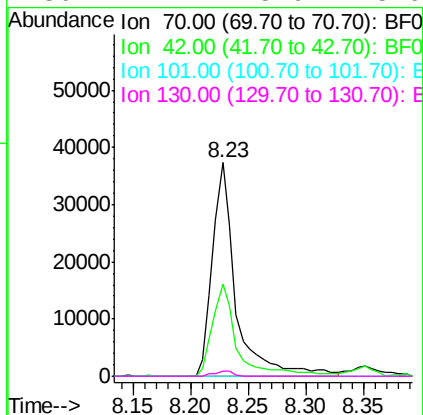
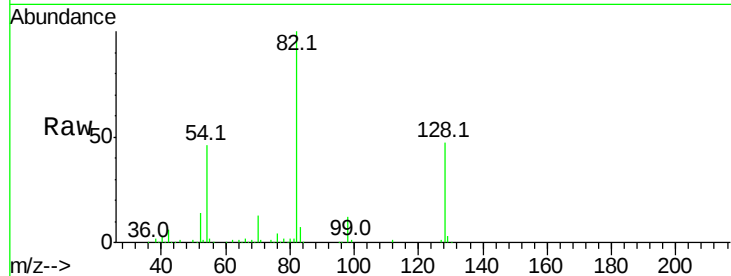




#19
n-Nitroso-di-n-propylamine
Concen: 15.10 ng
RT: 8.23 min Scan# 1146
Delta R.T. 0.16 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

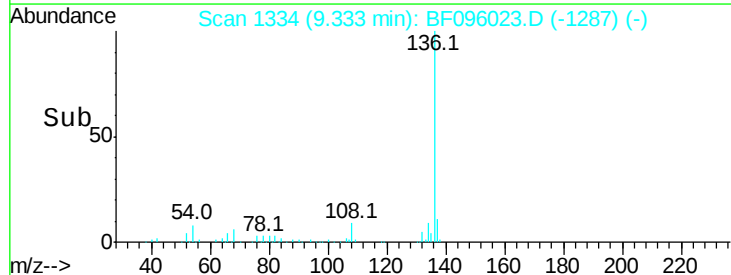
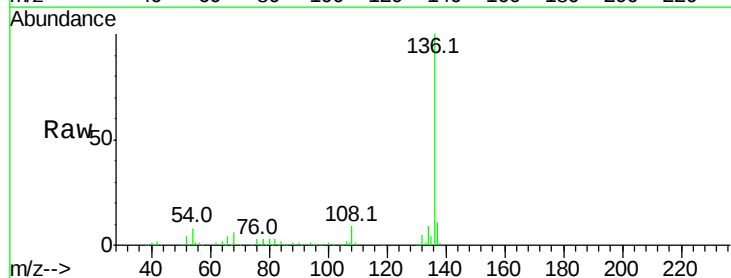
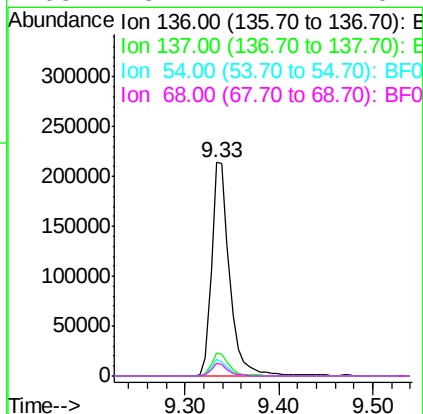
Instrument :
BNA_F
ClientSampled :

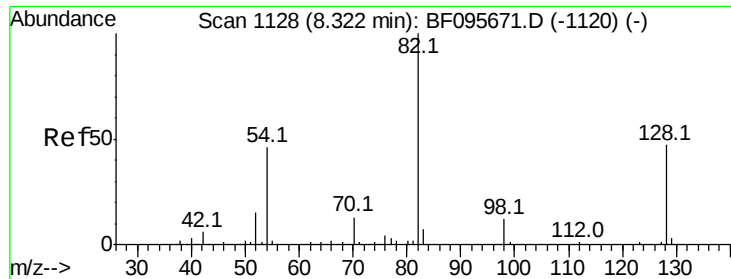
Tot Ion: 70 Resp: 53004
Ion Ratio Lower Upper
70 100
42 43.2 47.2 70.8#
101 0.0 7.2 10.8#
130 2.2 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.33 min Scan# 1334
Delta R.T. -0.02 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

Tgt Ion:136 Resp: 290124
Ion Ratio Lower Upper
136 100
137 10.8 8.5 12.7
54 7.5 4.9 7.3#
68 5.7 4.1 6.1

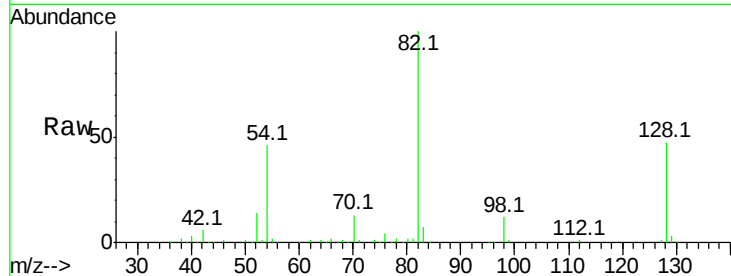




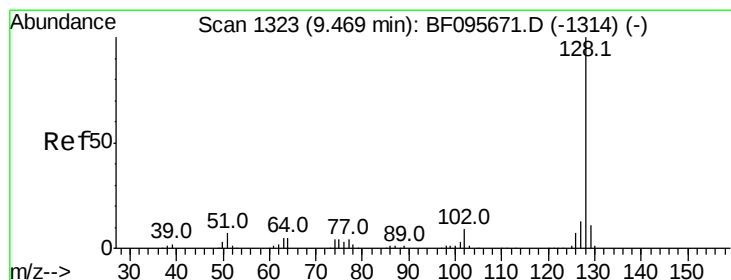
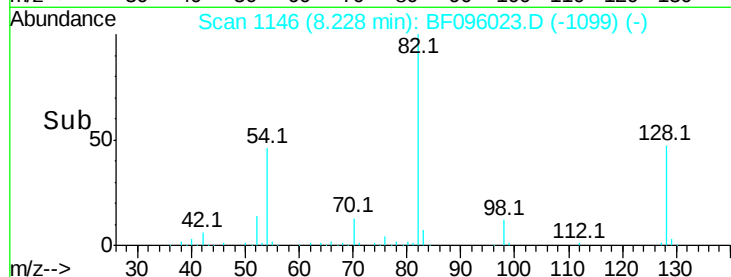
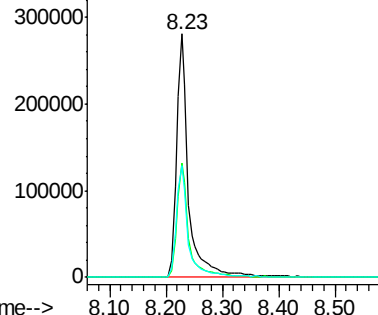
#23
Nitrobenzene-d5
Concen: 90.09 ng
RT: 8.23 min Scan# 1146
Delta R.T. -0.02 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 420839
Ion Ratio Lower Upper
82 100
128 46.9 34.0 51.0
54 46.2 42.2 63.2

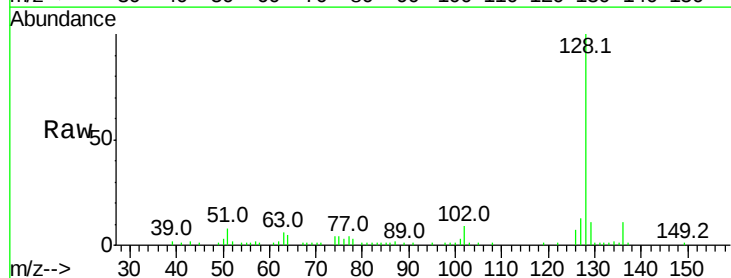


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

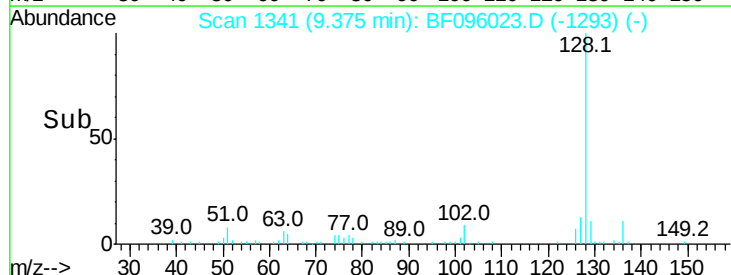
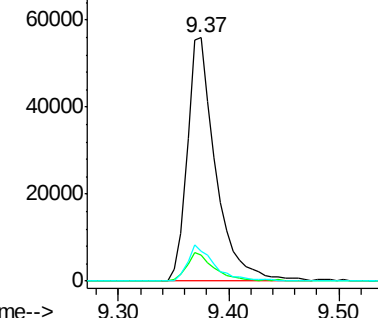


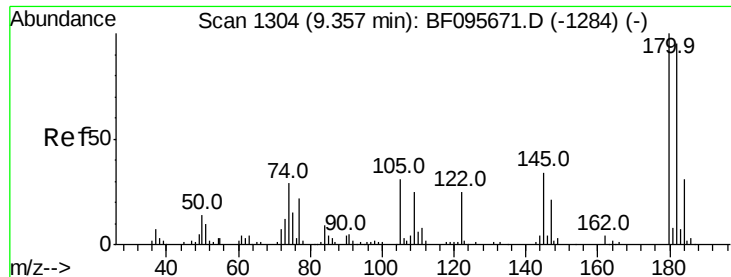
#31
Naphthalene
Concen: 6.84 ng
RT: 9.37 min Scan# 1341
Delta R.T. -0.02 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

Tgt Ion:128 Resp: 99625
Ion Ratio Lower Upper
128 100
129 10.7 9.0 13.6
127 12.5 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

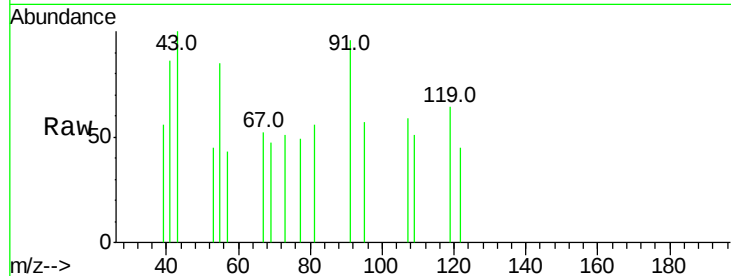




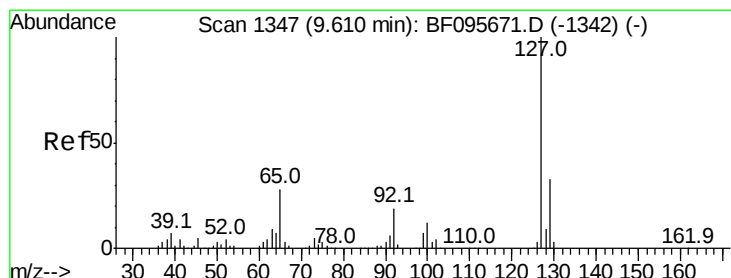
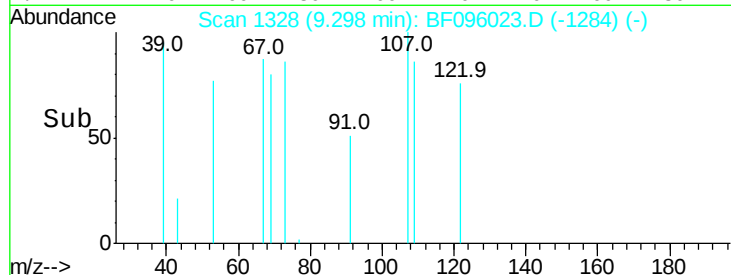
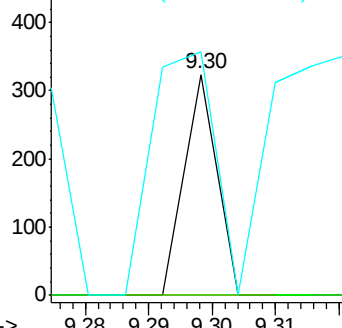
#32
Benzoic acid
Concen: 5.16 ng
RT: 9.30 min Scan# 1328
Delta R.T. -0.04 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

Instrument :
BNA_F
ClientSampled :

Tot Ion:122 Resp: 114
Ion Ratio Lower Upper
122 100
105 0.0 103.3 143.3#
77 110.2 73.7 113.7

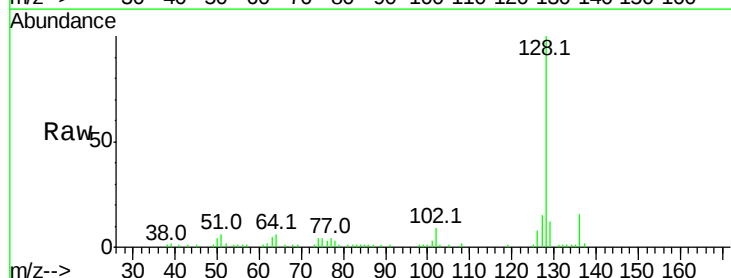


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF0

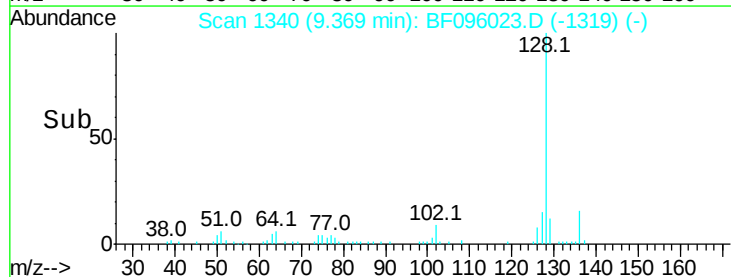
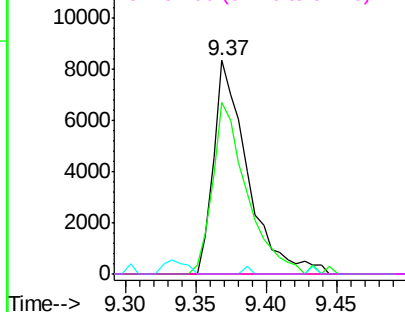


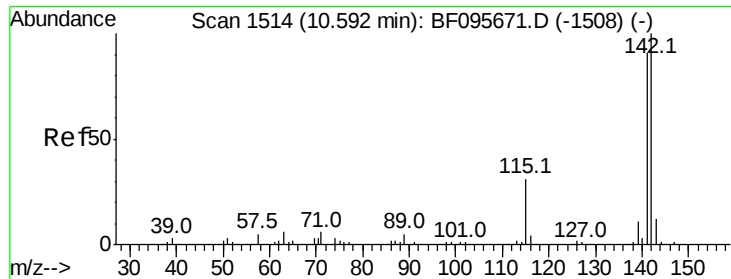
#33
4-Chloroaniline
Concen: 2.46 ng
RT: 9.37 min Scan# 1340
Delta R.T. -0.18 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

Tgt Ion:127 Resp: 14006
Ion Ratio Lower Upper
127 100
129 80.4 26.2 39.2#
65 0.0 27.8 41.8#
92 0.0 16.8 25.2#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0

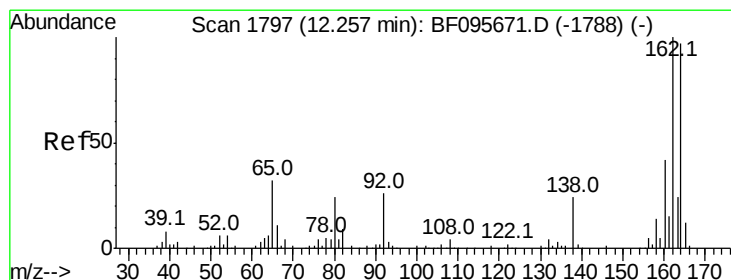
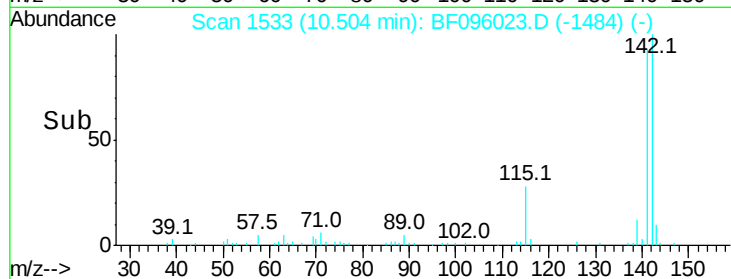
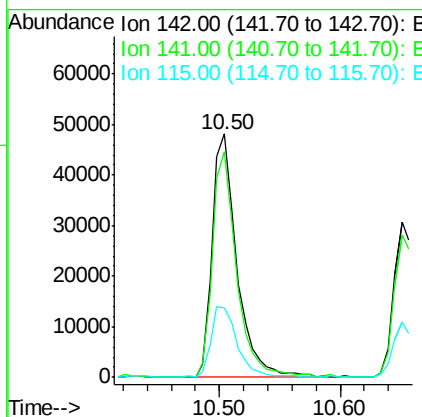
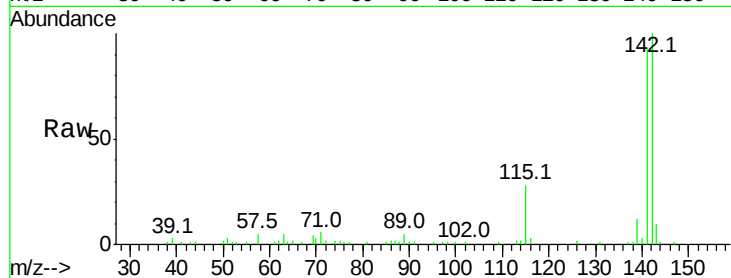




#37
2-Methylnaphthalene
Concen: 6.89 ng
RT: 10.50 min Scan# 1533
Delta R.T. -0.01 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

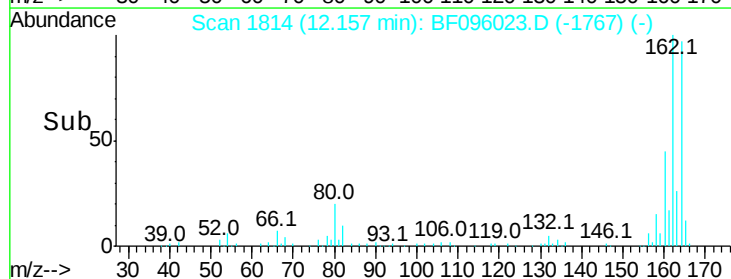
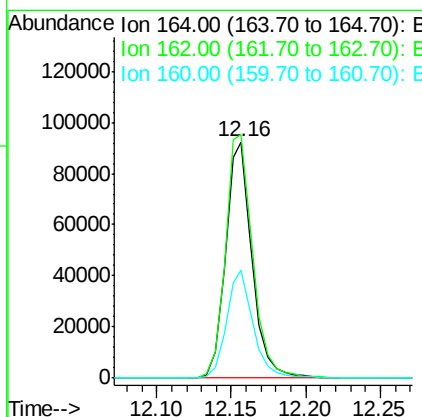
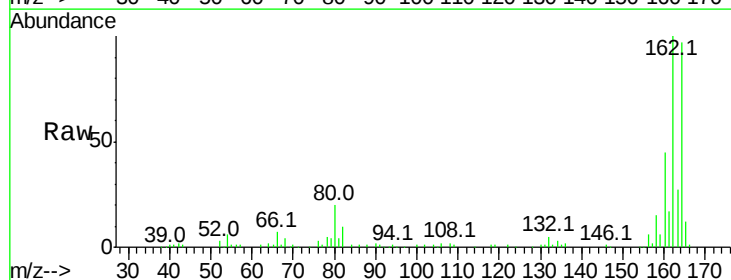
Instrument :
BNA_F
ClientSampleId :

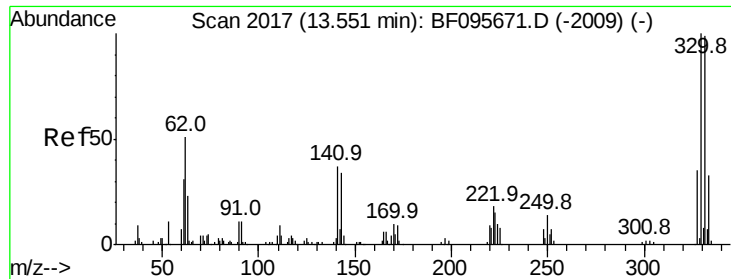
Tot Ion:142 Resp: 67749
Ion Ratio Lower Upper
142 100
141 92.7 71.3 106.9
115 28.3 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.16 min Scan# 1814
Delta R.T. -0.02 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

Tgt Ion:164 Resp: 114527
Ion Ratio Lower Upper
164 100
162 102.9 82.6 123.8
160 45.9 36.2 54.2

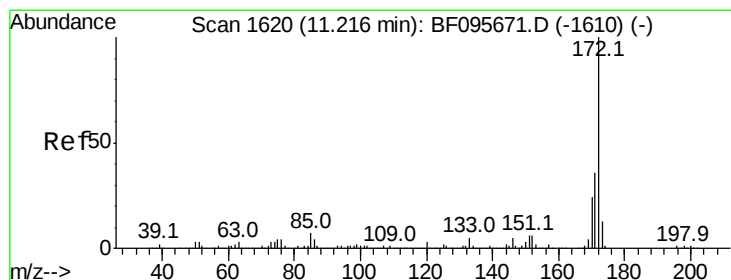
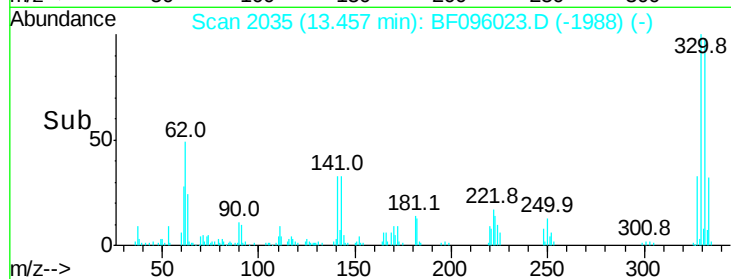
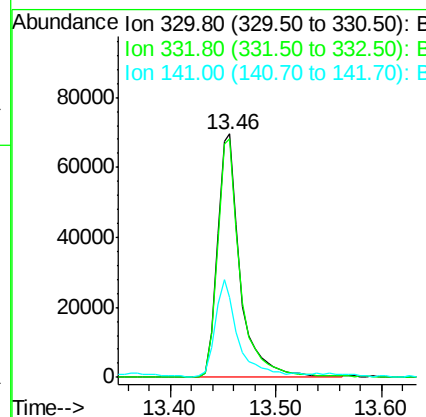
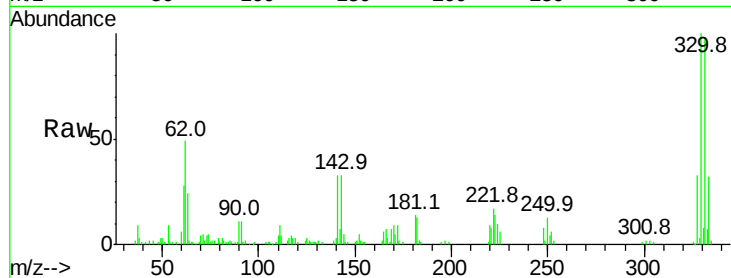




#41
 2,4,6-Tribromophenol
 Concen: 104.33 ng
 RT: 13.46 min Scan# 2035
 Delta R.T. -0.02 min
 Lab File: BF096023.D
 Acq: 20 Jun 2017 2:29

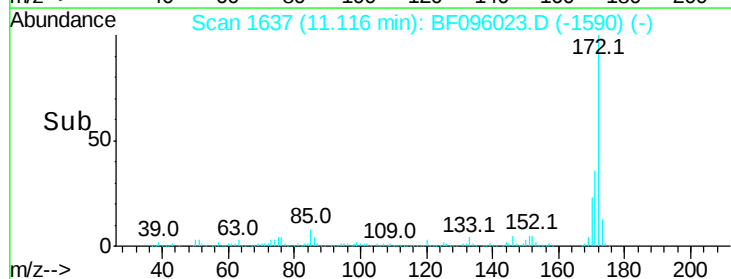
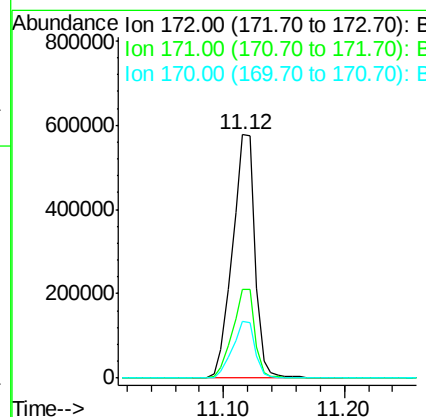
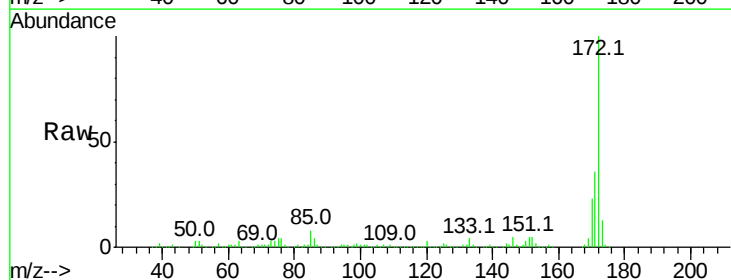
Instrument :
 BNA_F
 ClientSampleId :

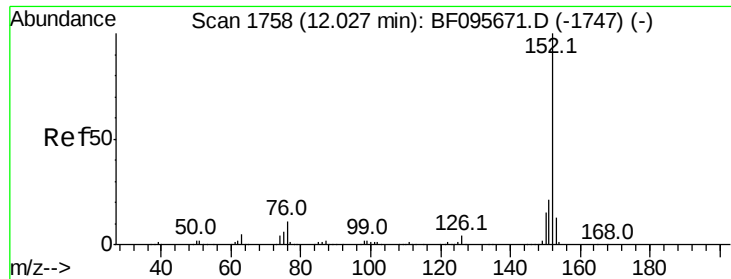
Tot Ion:330 Resp: 105721
 Ion Ratio Lower Upper
 330 100
 332 98.0 76.6 115.0
 141 41.1 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 91.20 ng
 RT: 11.12 min Scan# 1637
 Delta R.T. -0.02 min
 Lab File: BF096023.D
 Acq: 20 Jun 2017 2:29

Tgt Ion:172 Resp: 750590
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.6 44.4
 170 23.2 19.8 29.8





#48

Acenaphthylene

Concen: 4.77 ng

RT: 11.93 min Scan# 1776

Delta R.T. -0.02 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

Instrument :

BNA_F

ClientSampleId :

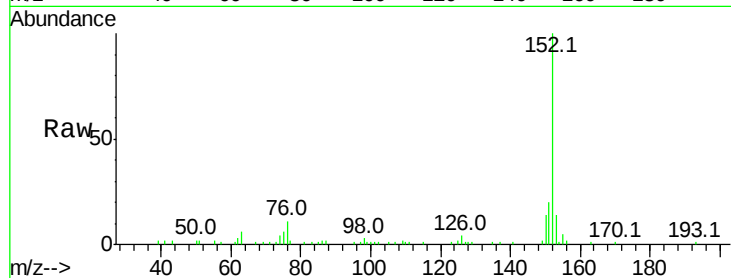
Tot Ion:152 Resp: 60176

Ion Ratio Lower Upper

152 100

151 20.5 16.8 25.2

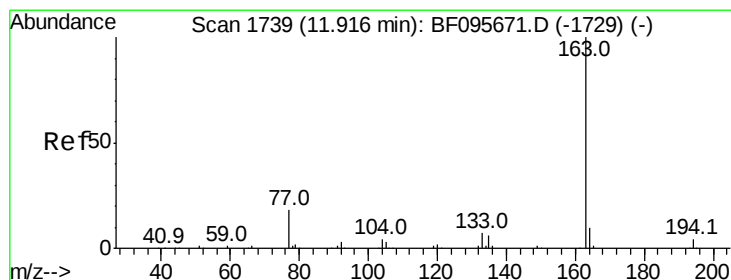
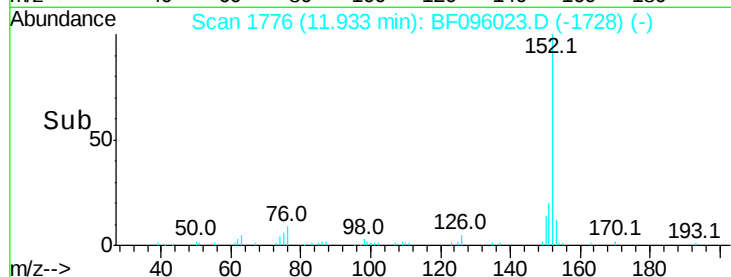
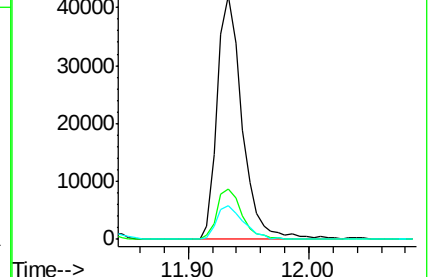
153 13.9 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 26.83 ng

RT: 11.82 min Scan# 1756

Delta R.T. -0.04 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

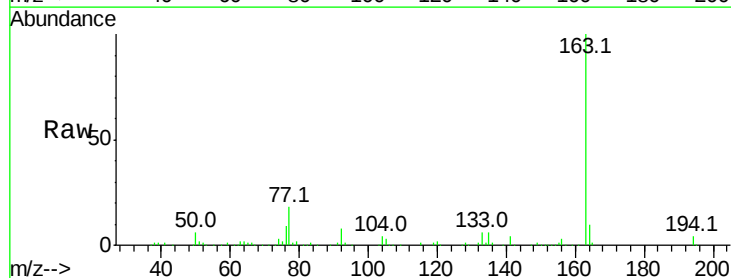
Tgt Ion:163 Resp: 233344

Ion Ratio Lower Upper

163 100

194 3.9 2.6 4.0

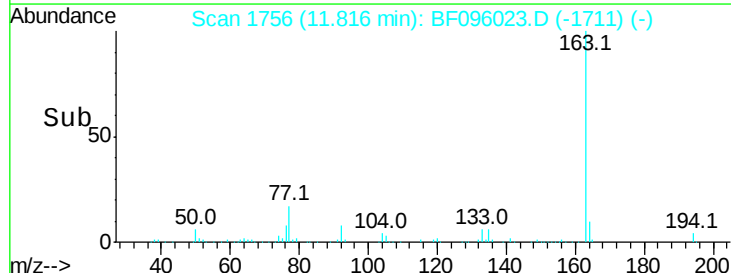
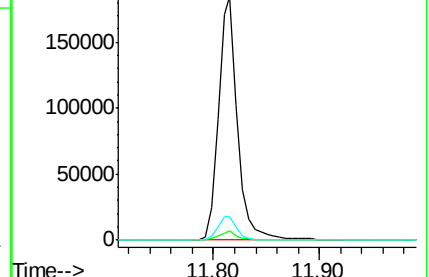
164 9.6 8.4 12.6

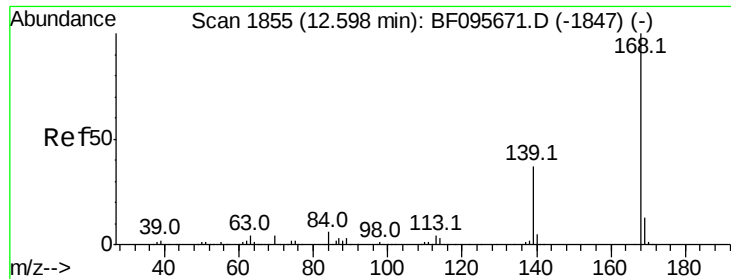


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

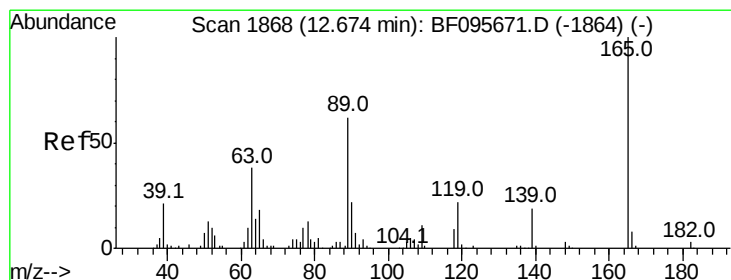
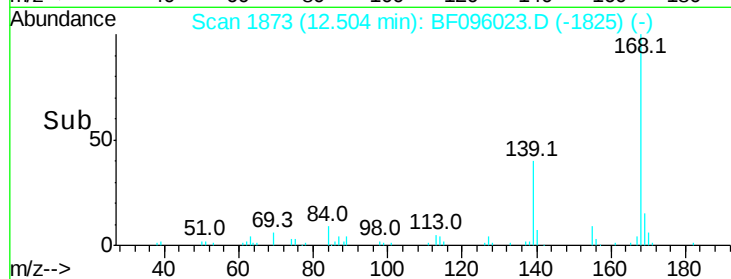
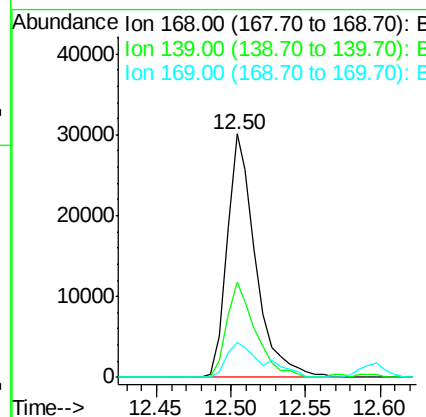
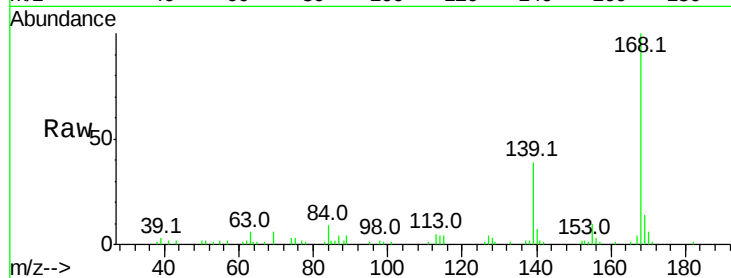




#54
Dibenzofuran
Concen: 3.93 ng
RT: 12.50 min Scan# 1873
Delta R.T. -0.02 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

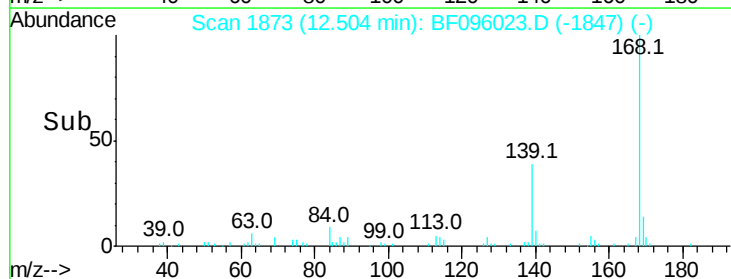
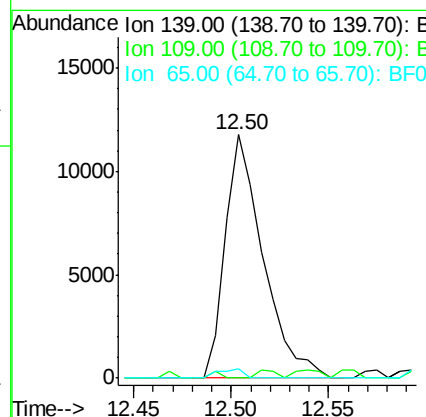
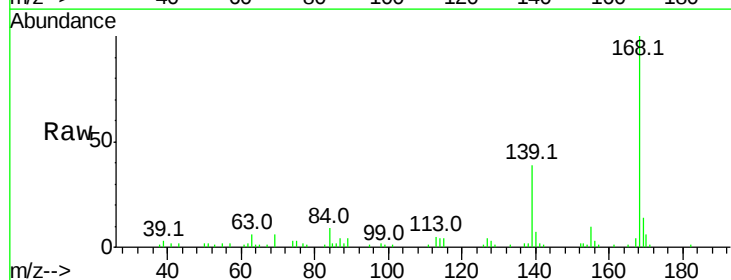
Instrument :
BNA_F
ClientSampleId :

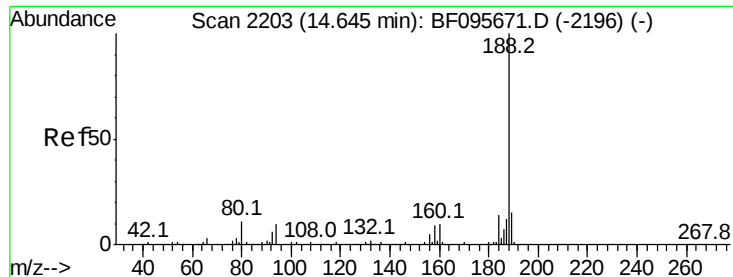
Tot Ion	Ratio	Lower	Upper
168	100		
139	39.1	30.6	45.8
169	14.5	10.8	16.2



#55
4-Nitrophenol
Concen: 16.18 ng
RT: 12.50 min Scan# 1873
Delta R.T. -0.15 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	34.1	74.1#
65	3.7	31.4	71.4#

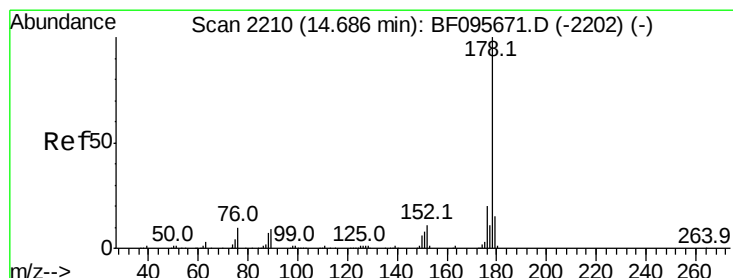
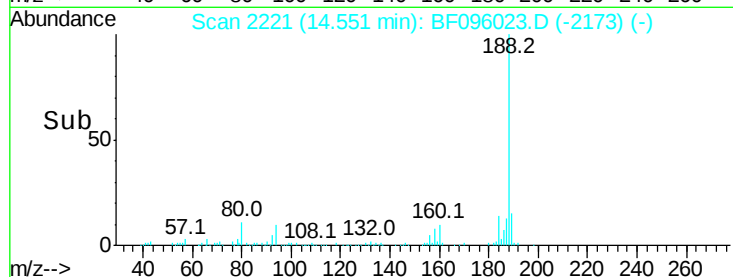
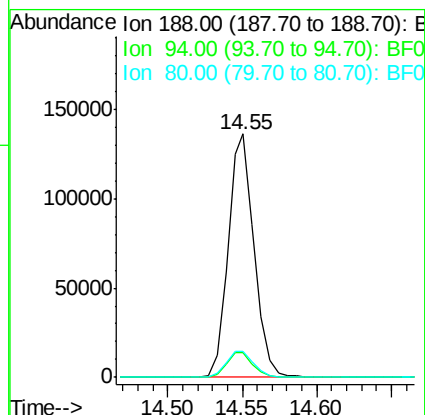
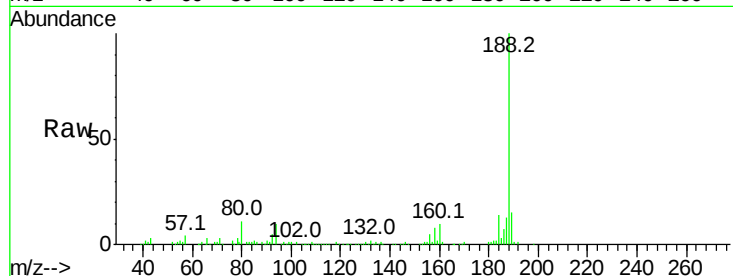




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.55 min Scan# 2221
Delta R.T. -0.02 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

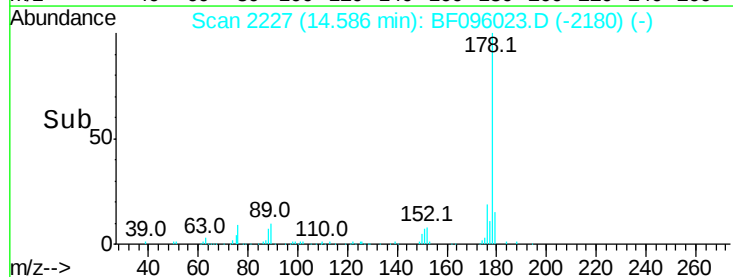
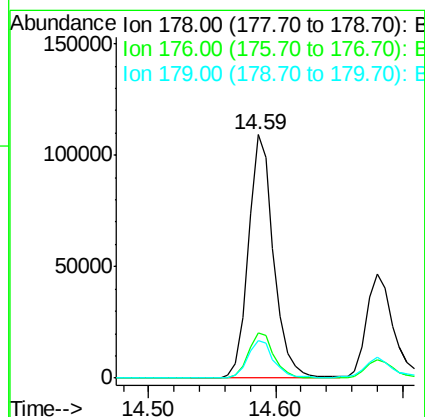
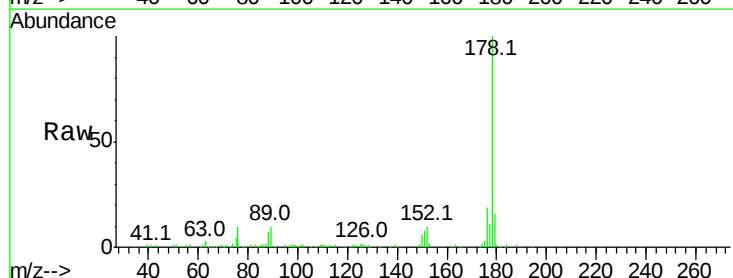
Instrument :
BNA_F
ClientSampleId :

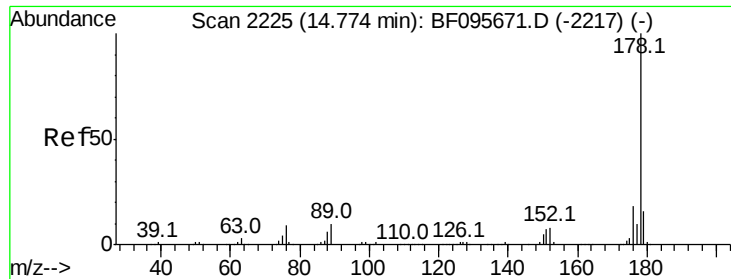
Tot Ion:188 Resp: 165612
Ion Ratio Lower Upper
188 100
94 10.0 9.4 14.2
80 10.6 10.2 15.2



#70
Phenanthrene
Concen: 15.74 ng
RT: 14.59 min Scan# 2227
Delta R.T. -0.02 min
Lab File: BF096023.D
Acq: 20 Jun 2017 2:29

Tgt Ion:178 Resp: 150385
Ion Ratio Lower Upper
178 100
176 18.8 16.2 24.4
179 15.6 12.6 19.0

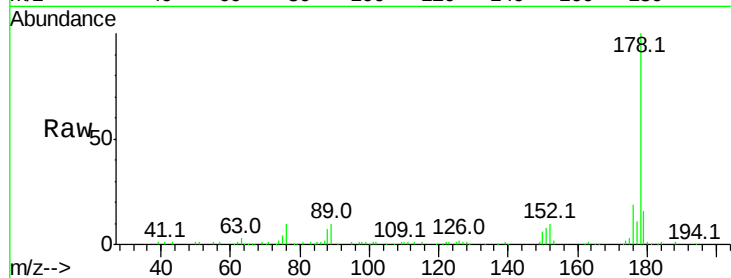




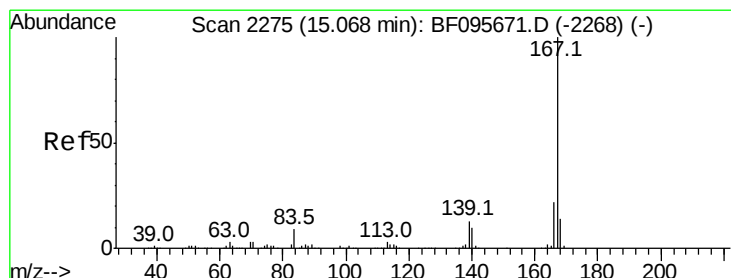
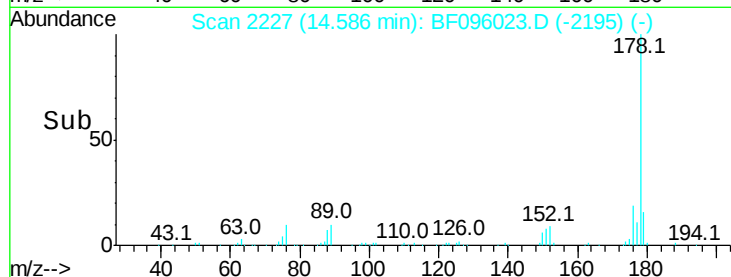
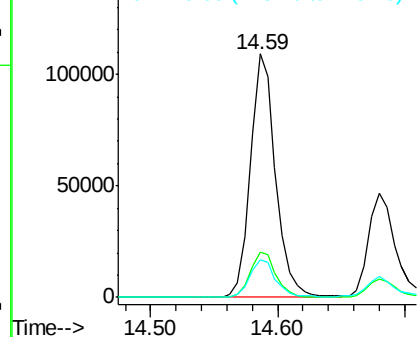
#71
 Anthracene
 Concen: 15.07 ng
 RT: 14.59 min Scan# 2227
 Delta R.T. -0.11 min
 Lab File: BF096023.D
 Acq: 20 Jun 2017 2:29

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	15.6	12.7	19.1

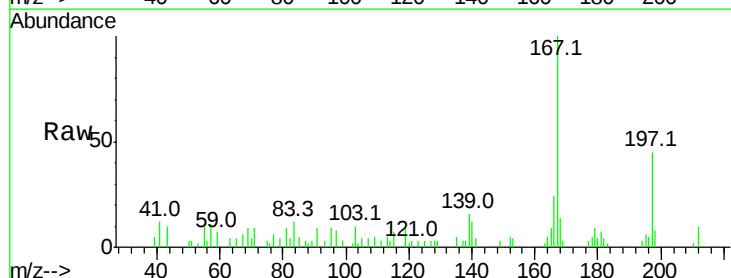


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

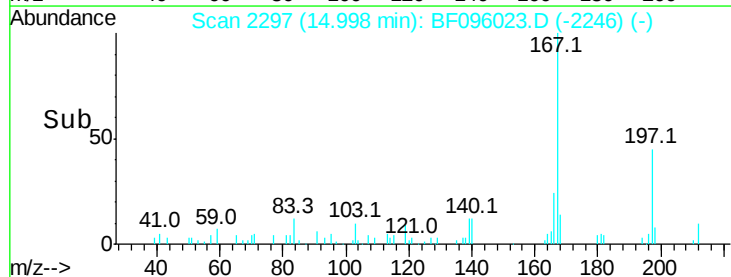
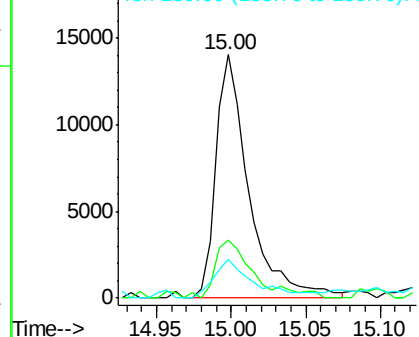


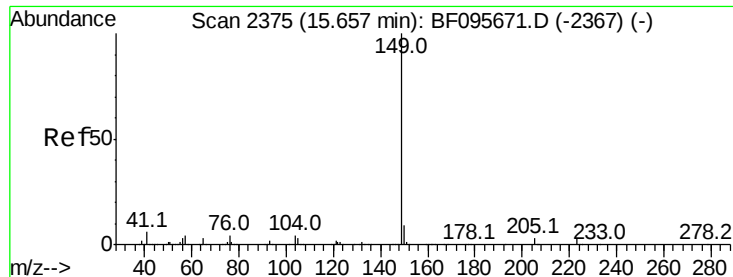
#72
 Carbazole
 Concen: 2.23 ng
 RT: 15.00 min Scan# 2297
 Delta R.T. 0.00 min
 Lab File: BF096023.D
 Acq: 20 Jun 2017 2:29

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.0	18.1	27.1
139	15.8	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





#73

Di-n-butylphthalate

Concen: 2.24 ng

RT: 15.57 min Scan# 2394

Delta R.T. -0.02 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

Instrument :

BNA_F

ClientSampleId :

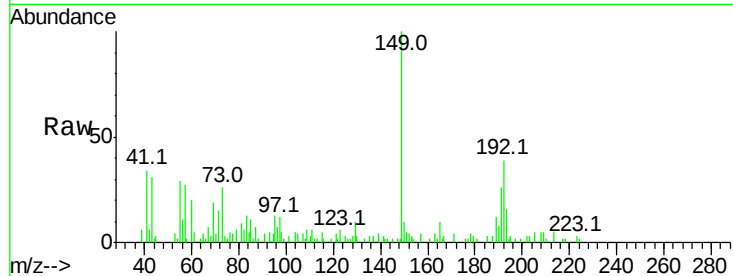
Tot Ion:149 Resp: 23190

Ion Ratio Lower Upper

149 100

150 10.2 7.7 11.5

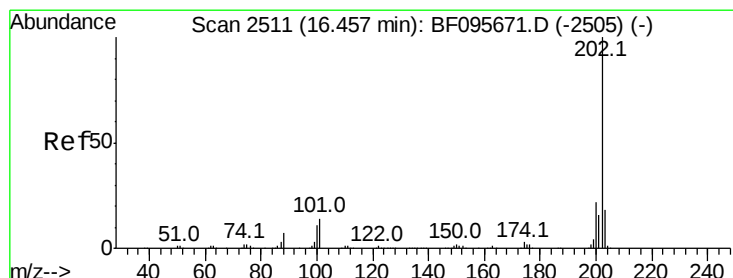
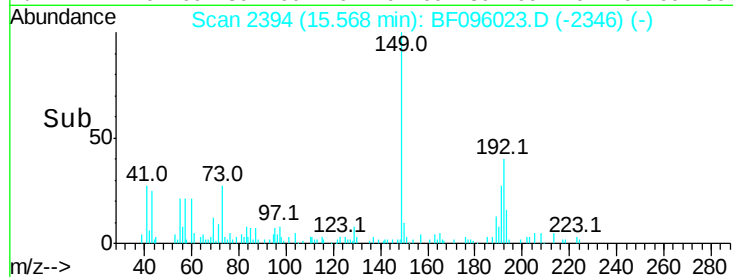
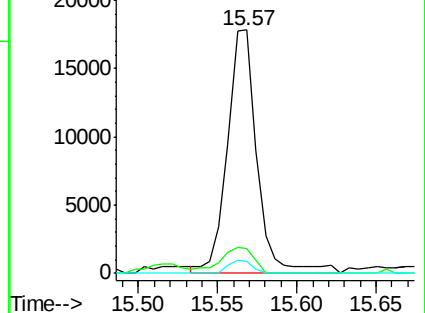
104 5.0 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 28.66 ng

RT: 16.37 min Scan# 2531

Delta R.T. -0.02 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

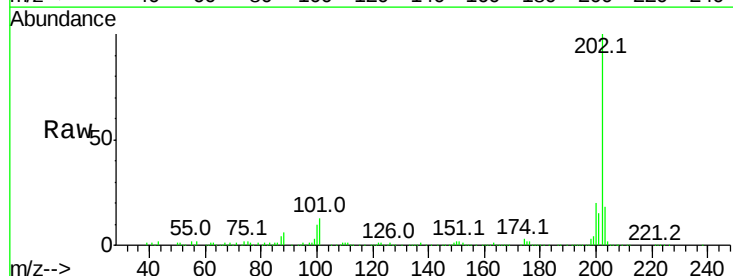
Tgt Ion:202 Resp: 271049

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.2

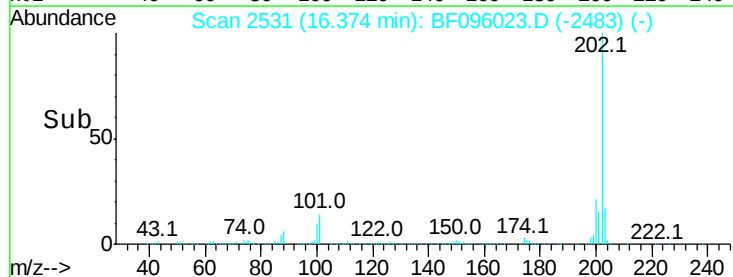
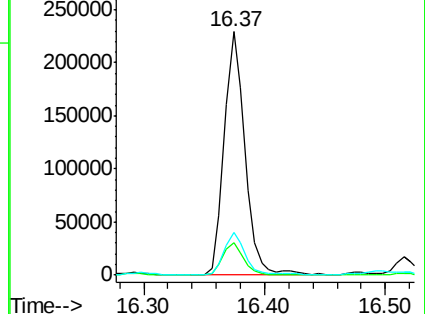
203 17.6 0.0 38.1

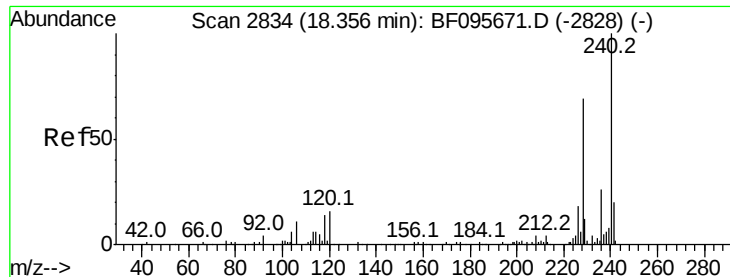


Abundance Ion 202.00 (201.70 to 202.70): E

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: 18.28 min Scan# 2855

Delta R.T. -0.02 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

Instrument :

BNA_F

ClientSampleId :

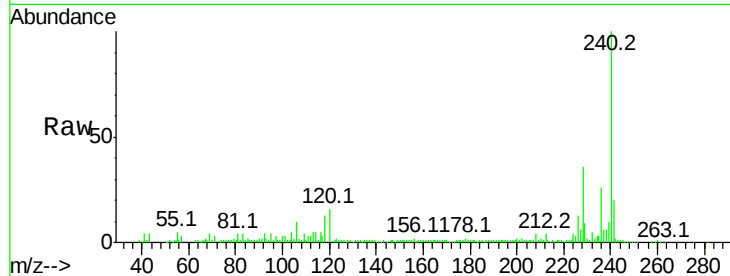
Tot Ion:240 Resp: 139271

Ion Ratio Lower Upper

240 100

120 15.8 5.8 8.8#

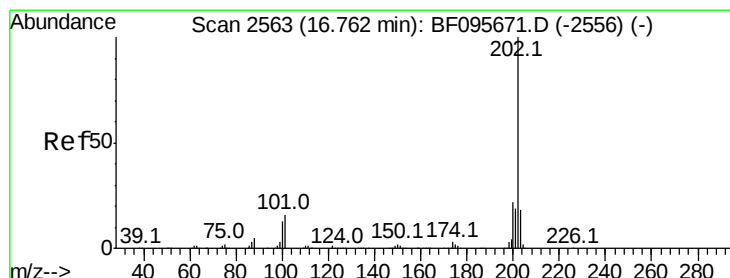
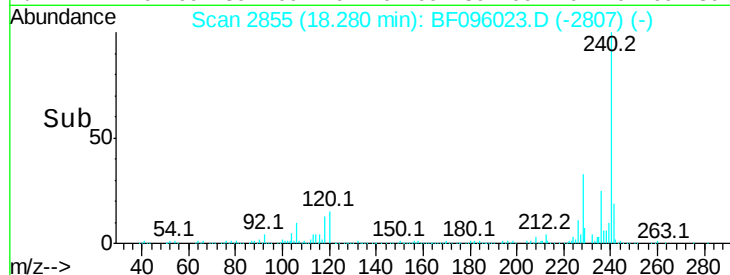
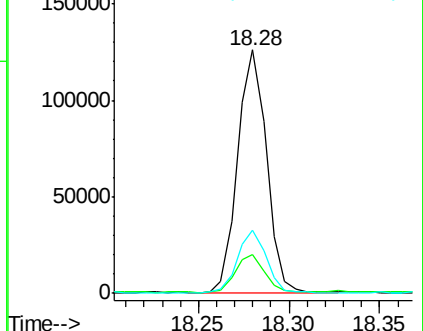
236 25.7 20.5 30.7



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: 24.42 ng

RT: 16.68 min Scan# 2583

Delta R.T. -0.02 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

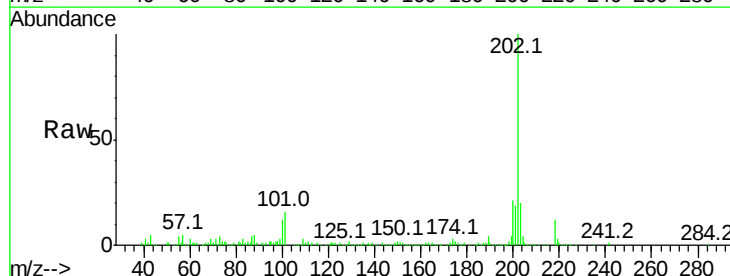
Tgt Ion:202 Resp: 253761

Ion Ratio Lower Upper

202 100

200 20.7 17.6 26.4

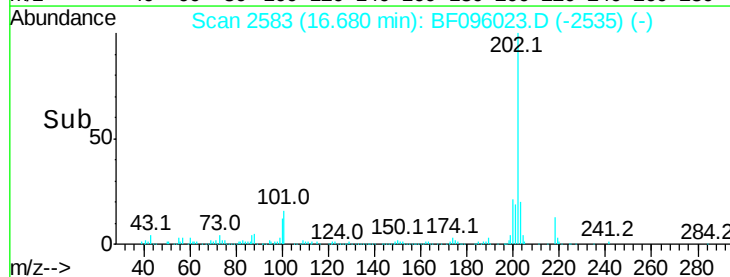
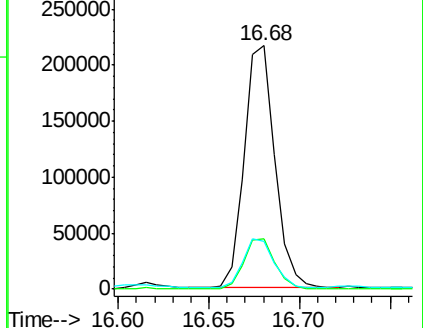
203 19.8 14.4 21.6

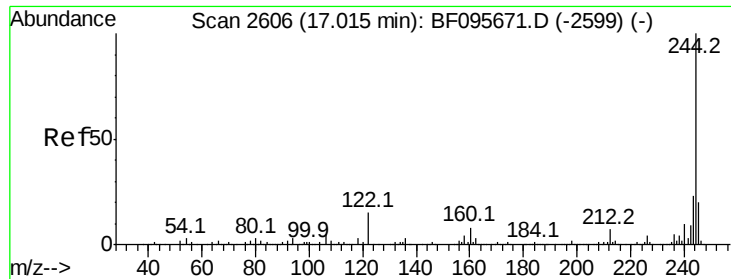


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

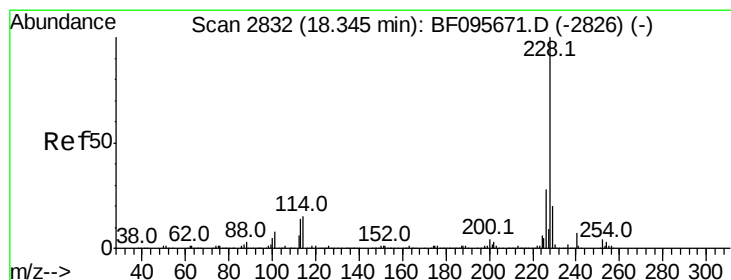
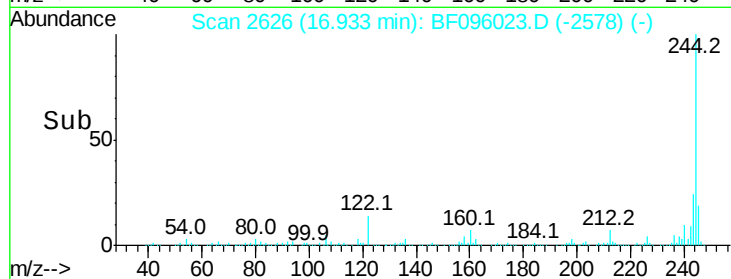
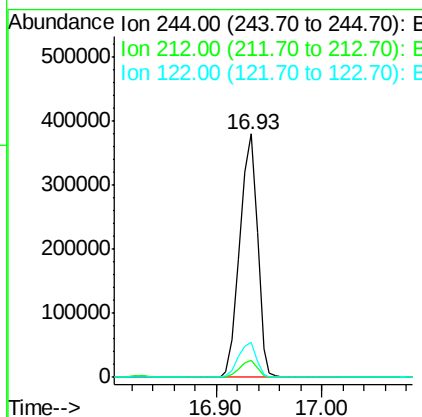
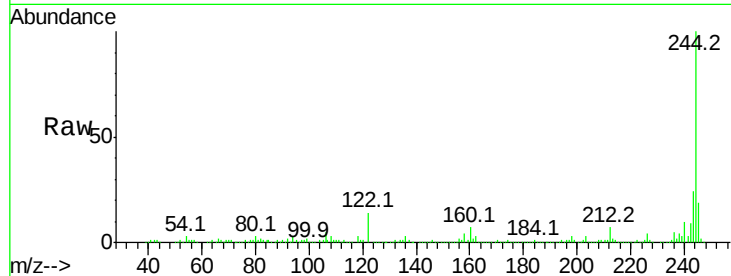




#78
 Terphenyl-d14
 Concen: 77.84 ng
 RT: 16.93 min Scan# 2626
 Delta R.T. -0.02 min
 Lab File: BF096023.D
 Acq: 20 Jun 2017 2:29

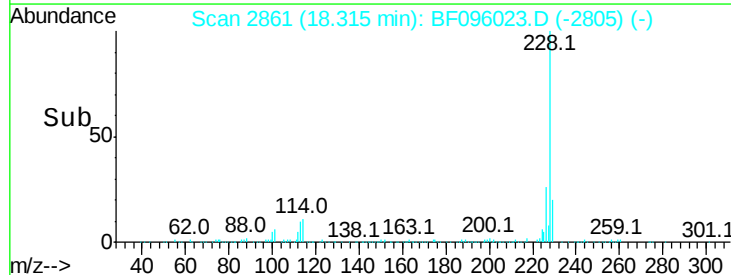
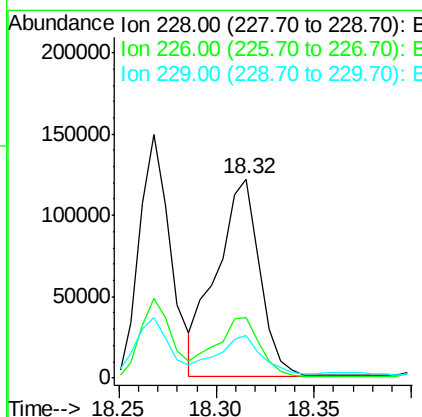
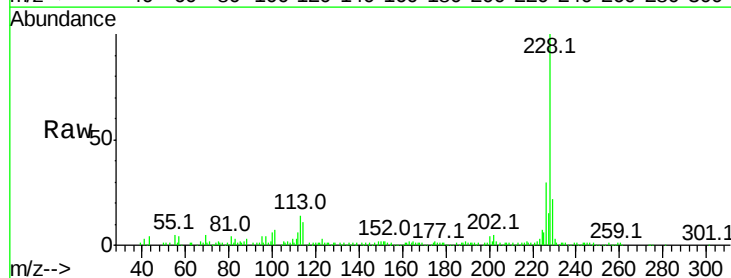
Instrument :
 BNA_F
 ClientSampleId :

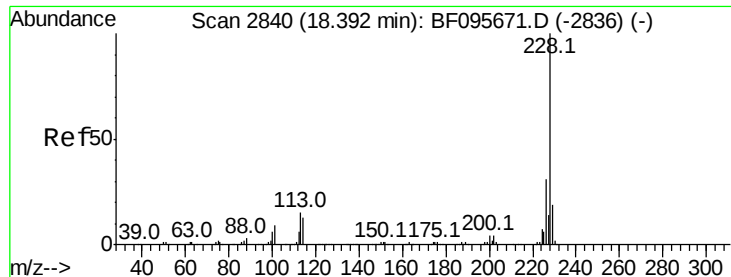
Tot Ion:244 Resp: 436823
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.0 9.0
 122 14.2 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 22.93 ng
 RT: 18.32 min Scan# 2861
 Delta R.T. 0.03 min
 Lab File: BF096023.D
 Acq: 20 Jun 2017 2:29

Tgt Ion:228 Resp: 185651
 Ion Ratio Lower Upper
 228 100
 226 30.3 22.6 33.8
 229 21.6 16.3 24.5





#82

Chrysene

Concen: 22.94 ng

RT: 18.32 min Scan# 2861

Delta R.T. -0.02 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

Instrument :

BNA_F

ClientSampleId :

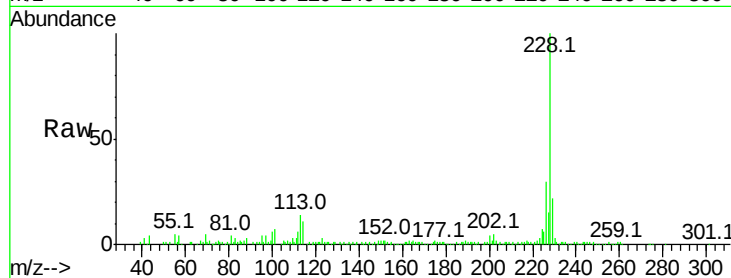
Tot Ion:228 Resp: 185651

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

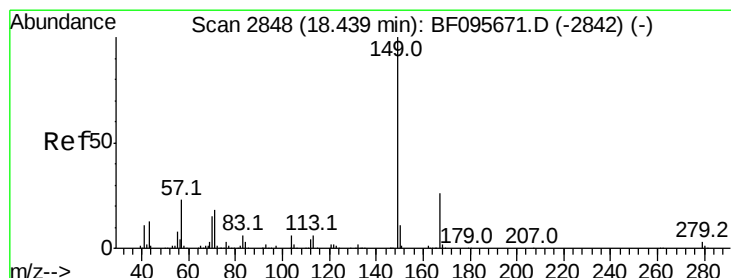
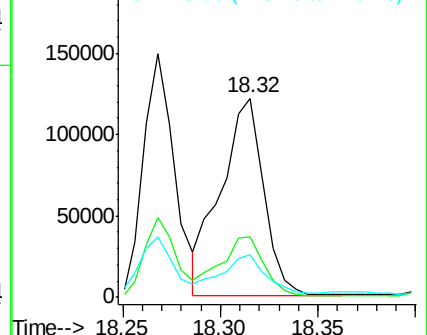
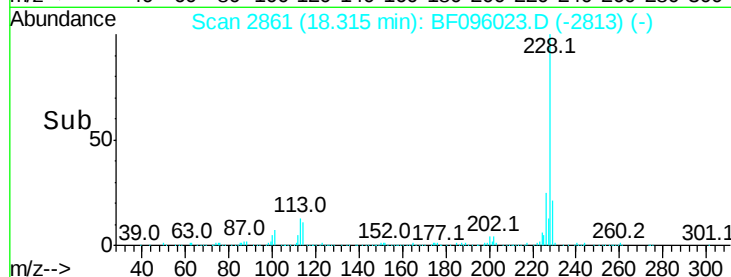
229 21.6 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.85 ng

RT: 18.35 min Scan# 2867

Delta R.T. -0.02 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

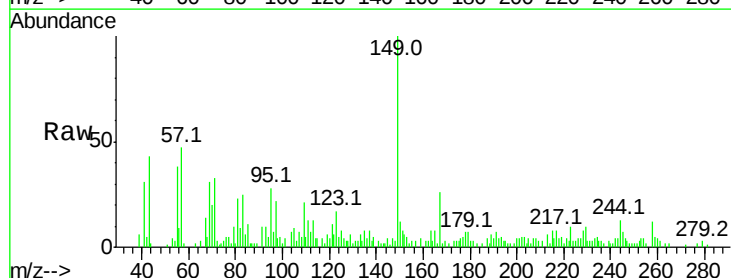
Tgt Ion:149 Resp: 24654

Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.4

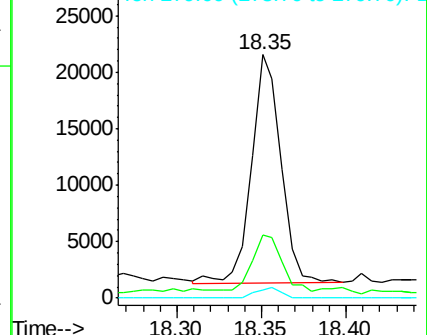
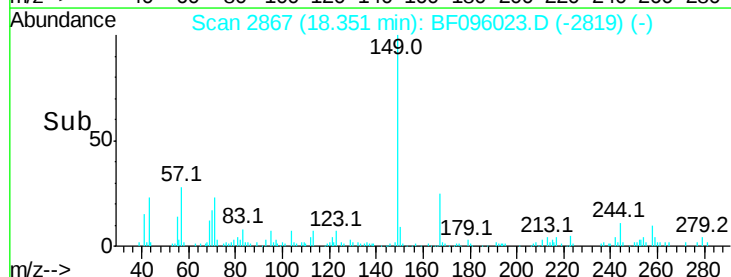
279 3.4 1.9 2.9#

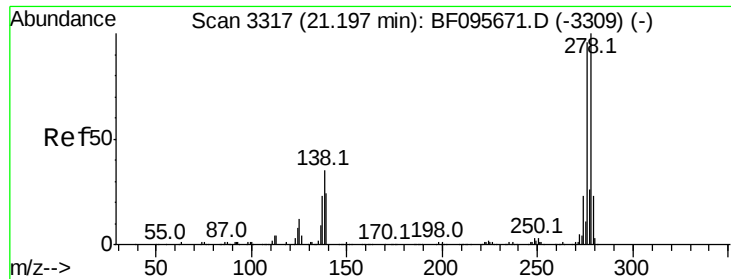


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

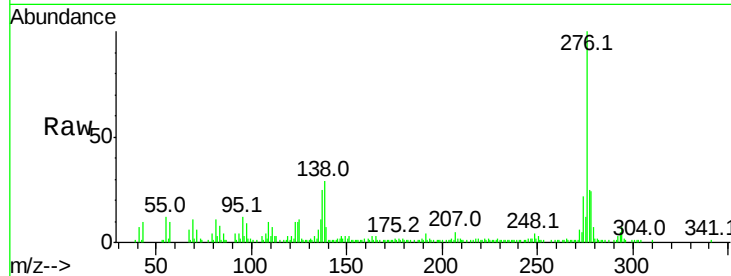




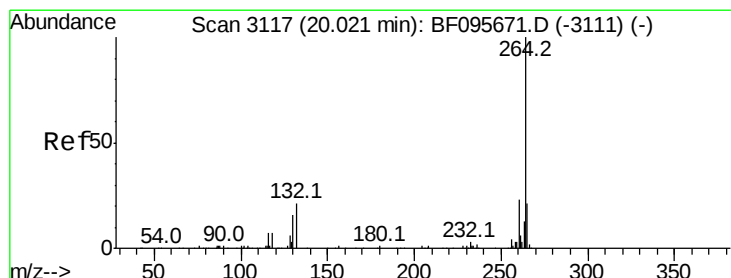
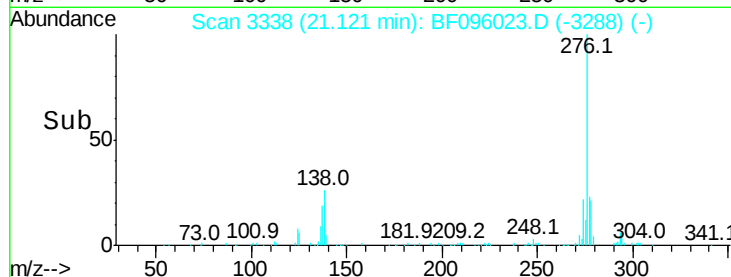
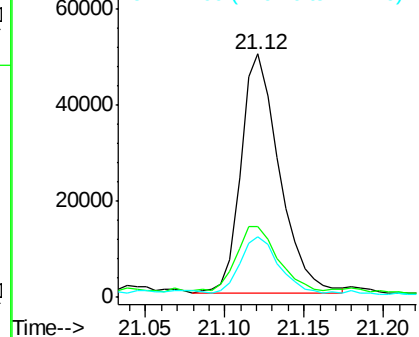
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.05 ng
 RT: 21.12 min Scan# 3338
 Delta R.T. -0.01 min
 Lab File: BF096023.D
 Acq: 20 Jun 2017 2:29

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 83464
 Ion Ratio Lower Upper
 276 100
 138 31.1 27.8 41.6
 277 23.3 20.2 30.4

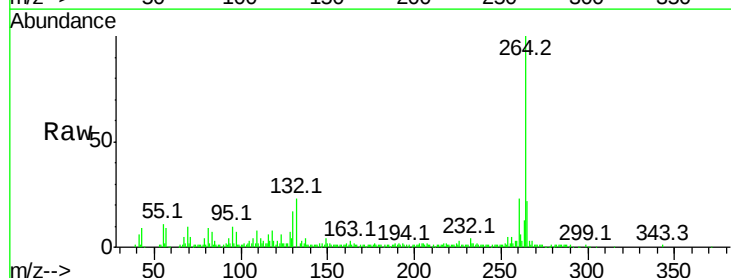


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

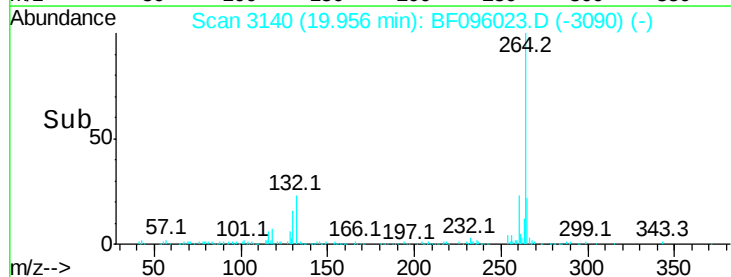
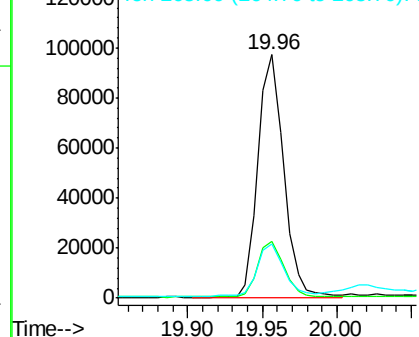


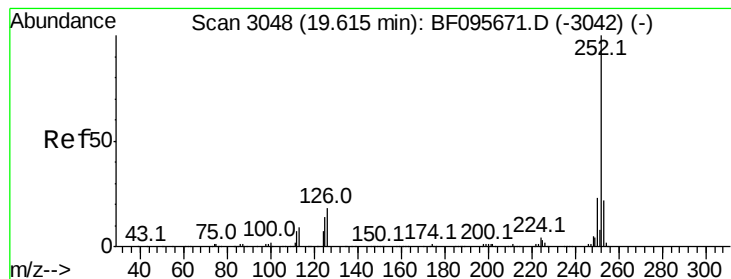
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 19.96 min Scan# 3140
 Delta R.T. -0.01 min
 Lab File: BF096023.D
 Acq: 20 Jun 2017 2:29

Tgt Ion:264 Resp: 115182
 Ion Ratio Lower Upper
 264 100
 260 23.4 19.5 29.3
 265 22.3 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: 46.99 ng

RT: 19.55 min Scan# 3071

Delta R.T. -0.01 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

Instrument :

BNA_F

ClientSampleId :

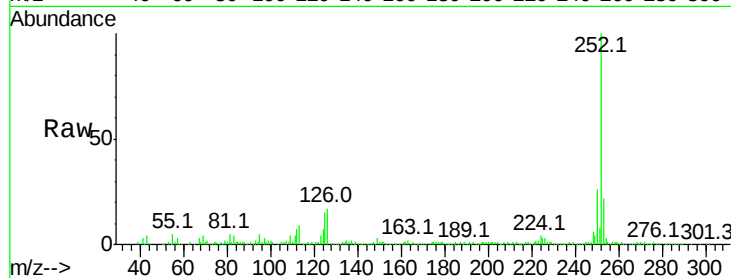
Tot Ion:252 Resp: 338897

Ion Ratio Lower Upper

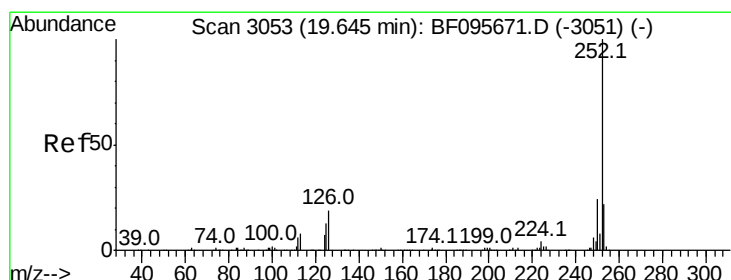
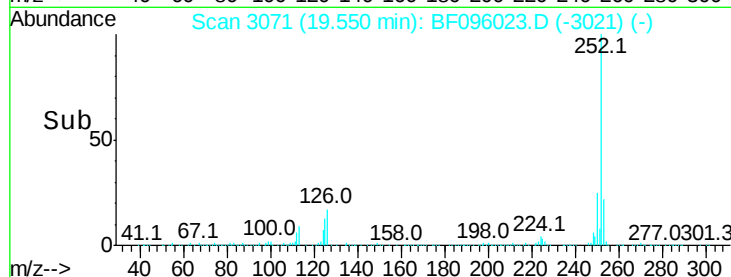
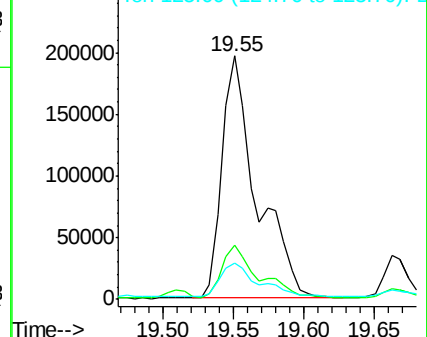
252 100

253 22.2 18.1 27.1

125 14.9 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: 49.16 ng

RT: 19.55 min Scan# 3071

Delta R.T. -0.04 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

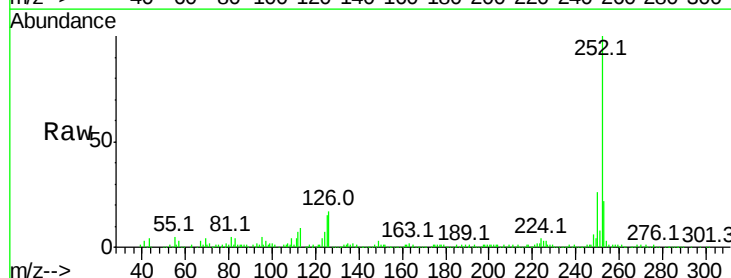
Tgt Ion:252 Resp: 338897

Ion Ratio Lower Upper

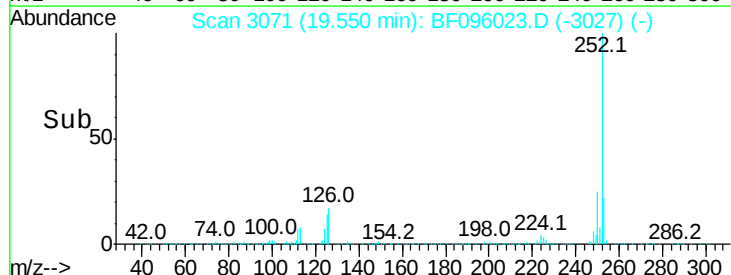
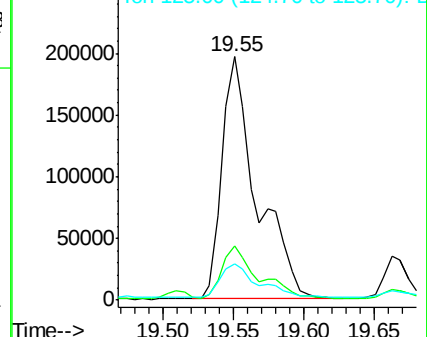
252 100

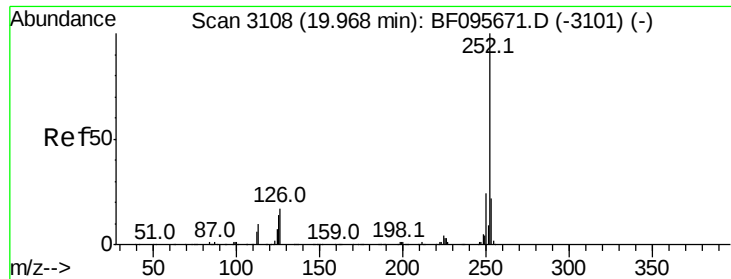
253 22.2 18.4 27.6

125 14.9 13.1 19.7



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: 18.96 ng

RT: 19.90 min Scan# 3131

Delta R.T. -0.01 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

Instrument :

BNA_F

ClientSampled :

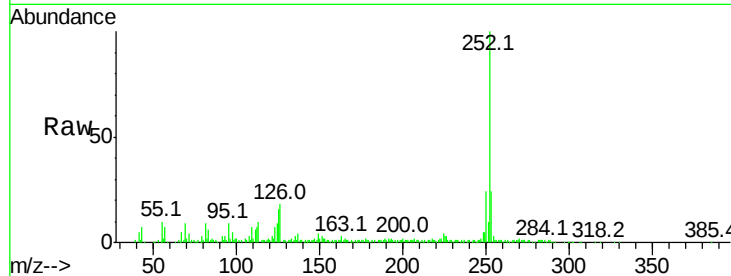
Tot Ion:252 Resp: 125684

Ion Ratio Lower Upper

252 100

253 23.9 17.5 26.3

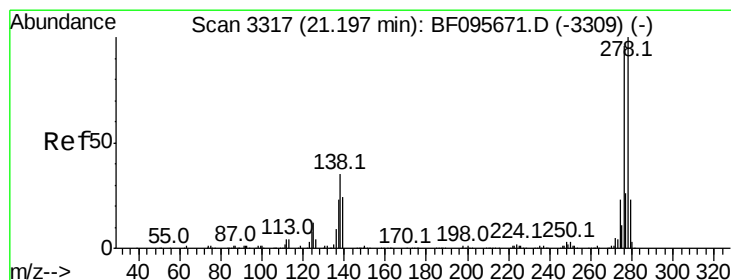
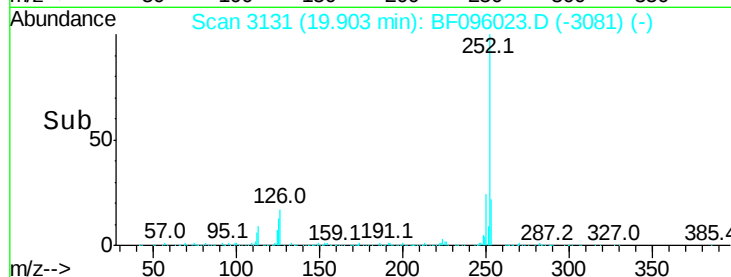
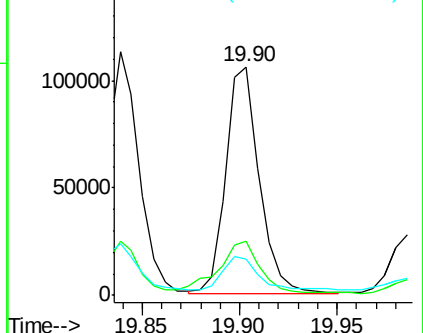
125 15.9 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 6.36 ng

RT: 21.11 min Scan# 3336

Delta R.T. -0.02 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

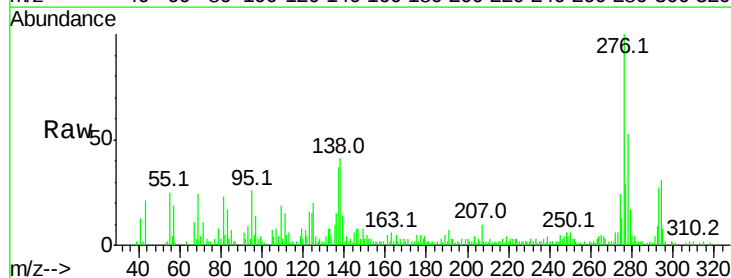
Tgt Ion:278 Resp: 35780

Ion Ratio Lower Upper

278 100

139 27.4 16.6 24.8#

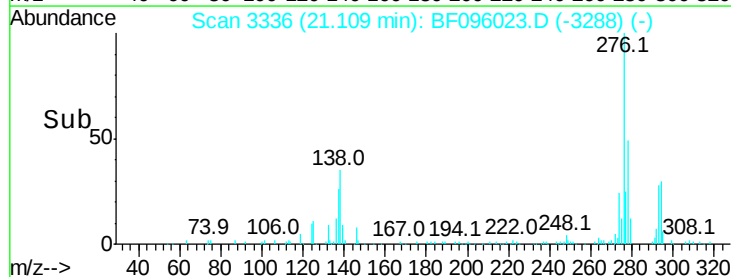
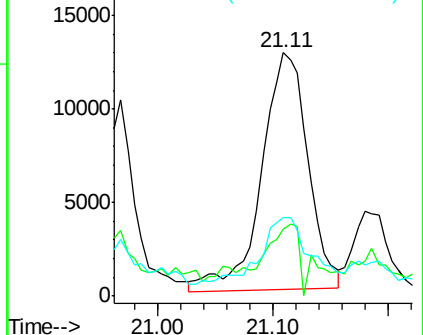
279 32.4 19.3 28.9#

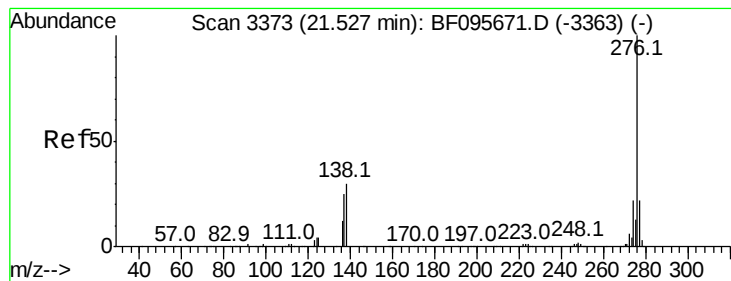


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 13.16 ng

RT: 21.45 min Scan# 3394

Delta R.T. 0.01 min

Lab File: BF096023.D

Acq: 20 Jun 2017 2:29

Instrument :

BNA_F

ClientSampleId :

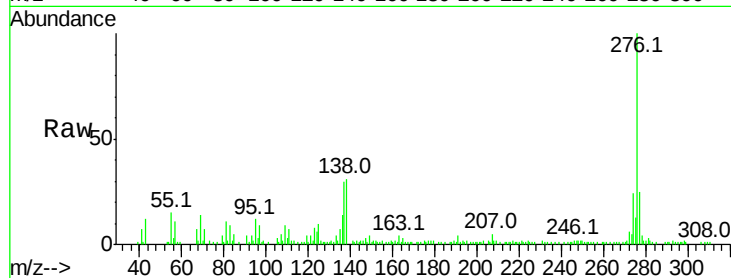
Tot Ion:276 Resp: 75420

Ion Ratio Lower Upper

276 100

277 25.1 18.6 28.0

138 31.2 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

