

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050817\
 Data File : BF095020.D
 Acq On : 9 May 2017 13:11
 Operator : SJ/MA
 Sample : I3013-02 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 09 16:03:02 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

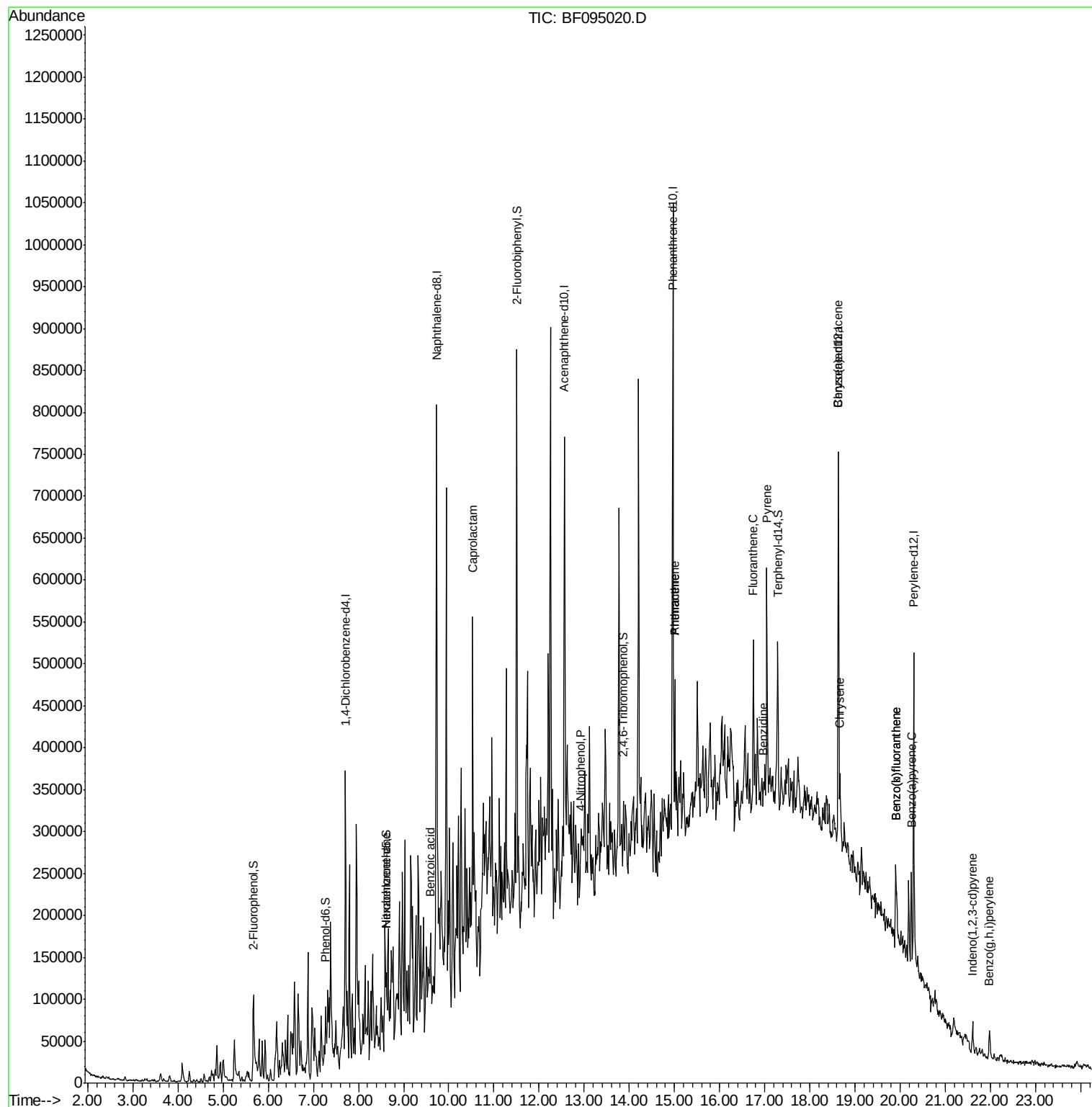
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	74092	20.00	ng	-0.02
21) Naphthalene-d8	9.73	136	340088	20.00	ng	-0.02
38) Acenaphthene-d10	12.56	164	150167	20.00	ng	-0.02
63) Phenanthrene-d10	14.97	188	238415	20.00	ng	-0.02
75) Chrysene-d12	18.64	240	192713	20.00	ng	-0.02
86) Perylene-d12	20.30	264	153170	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.67	112	75737	17.04	ng	0.00
7) Phenol-d6	7.27	99	82067	15.39	ng	-0.01
23) Nitrobenzene-d5	8.61	82	50354	9.34	ng	-0.02
41) 2,4,6-Tribromophenol	13.87	330	17290	14.06	ng	-0.01
44) 2-Fluorobiphenyl	11.51	172	99048	9.49	ng	-0.02
78) Terphenyl-d14	17.29	244	60523	6.92	ng	-0.02
Target Compounds						Qvalue
18) Hexachloroethane	8.61	117	4772	2.42	ng	# 7
32) Benzoic acid	9.61	122	3015	5.91	ng	# 21
35) Caprolactam	10.53	113	14613	10.45	ng	# 53
55) 4-Nitrophenol	12.92	139	5797	3.58	ng	# 54
70) Phenanthrene	15.01	178	92846	6.78	ng	97
71) Anthracene	15.01	178	92846	6.64	ng	98
74) Fluoranthene	16.75	202	91364	6.50	ng	99
76) Benzidine	16.96	184	390	6.65	ng	# 1
77) Pyrene	17.05	202	107106	7.43	ng	97
80) Benzo(a)anthracene	18.62	228	42381	3.78	ng	92
82) Chrysene	18.67	228	42349	3.90	ng	98
85) Indeno(1,2,3-cd)pyrene	21.61	276	23181	2.63	ng	99
87) Benzo(b)fluoranthene	19.90	252	73204	7.73	ng	# 92
88) Benzo(k)fluoranthene	19.90	252	73204	8.02	ng	# 95
89) Benzo(a)pyrene	20.25	252	46405	5.31	ng	# 93
91) Benzo(g,h,i)perylene	21.98	276	27101	3.83	ng	97

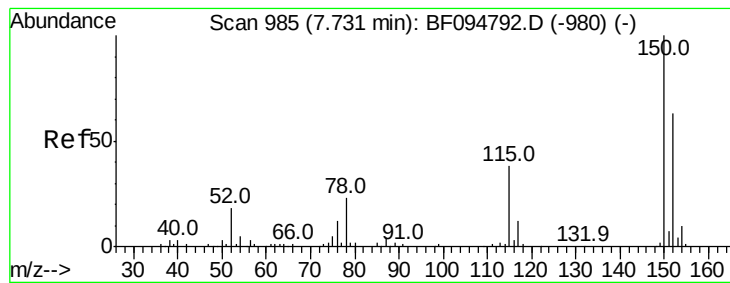
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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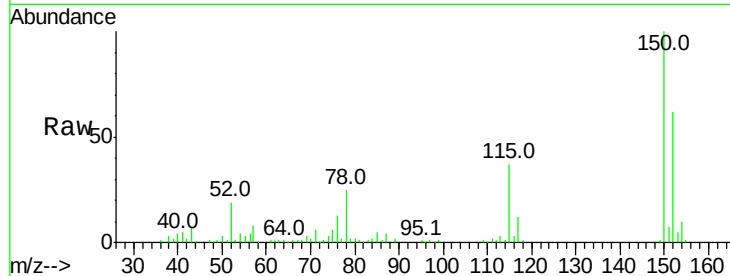


#1

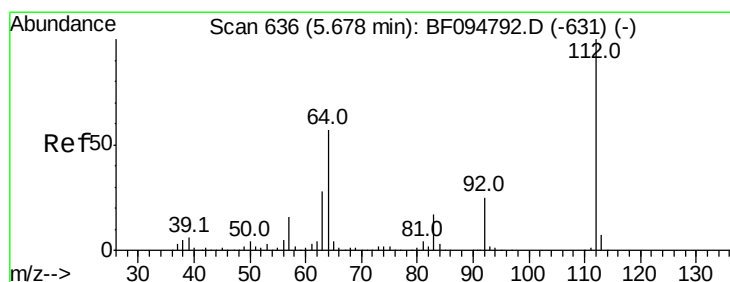
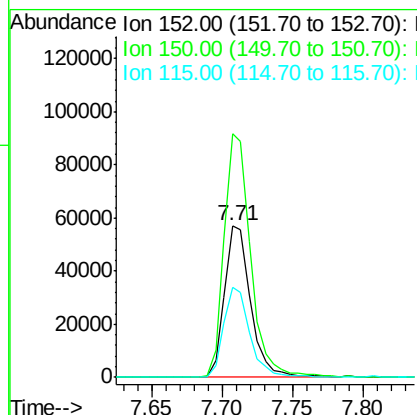
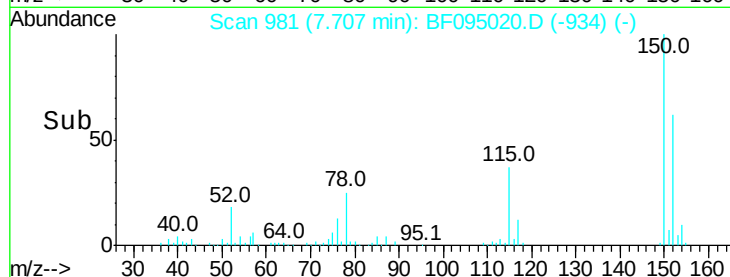
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.71 min Scan# 981
Delta R.T. -0.02 min
Lab File: BF095020.D
Acq: 9 May 2017 13:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 74092
Ion Ratio Lower Upper
152 100
150 160.4 126.2 189.2
115 59.2 52.2 78.2



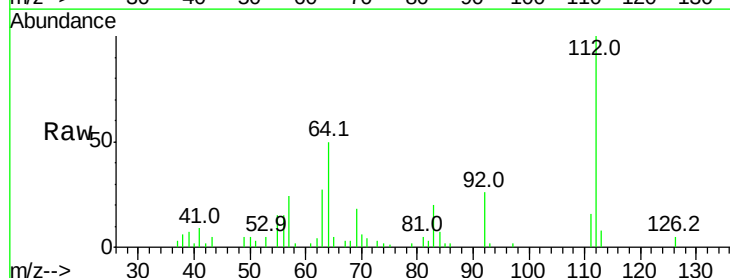
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



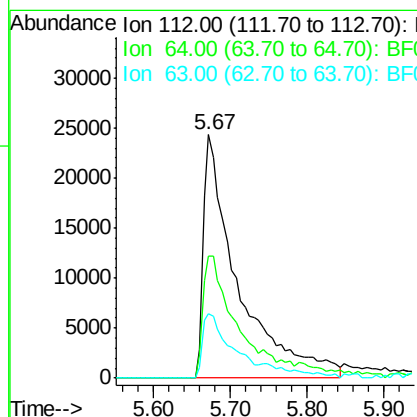
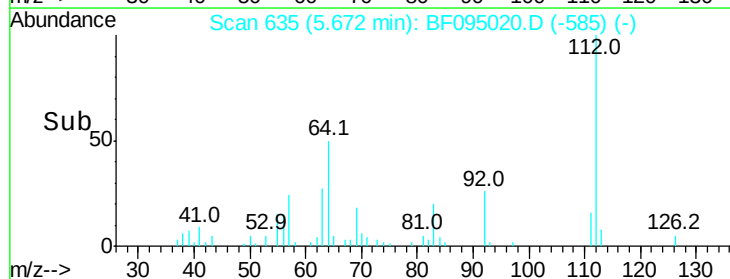
#5

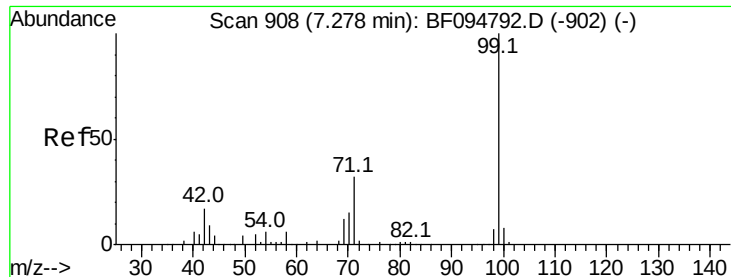
2-Fluorophenol
Concen: 17.04 ng
RT: 5.67 min Scan# 635
Delta R.T. -0.01 min
Lab File: BF095020.D
Acq: 9 May 2017 13:11

Tgt Ion:112 Resp: 75737
Ion Ratio Lower Upper
112 100
64 50.1 46.0 69.0
63 26.5 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: 15.39 ng

RT: 7.27 min Scan# 906

Delta R.T. -0.01 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

Instrument :

BNA_F

ClientSampleId :

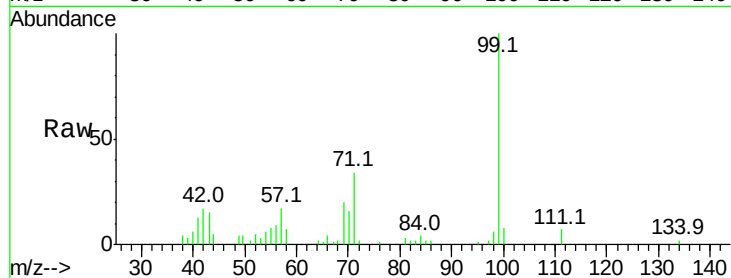
Tot Ion: 99 Resp: 82067

Ion Ratio Lower Upper

99 100

42 17.4 13.5 20.3

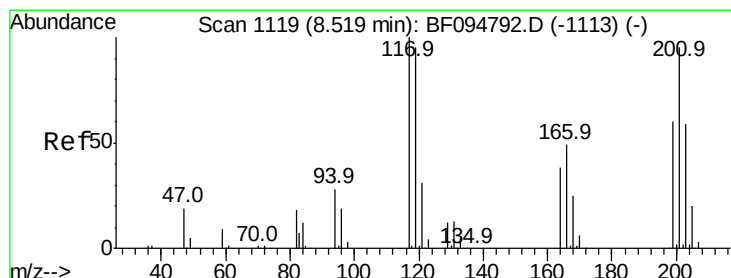
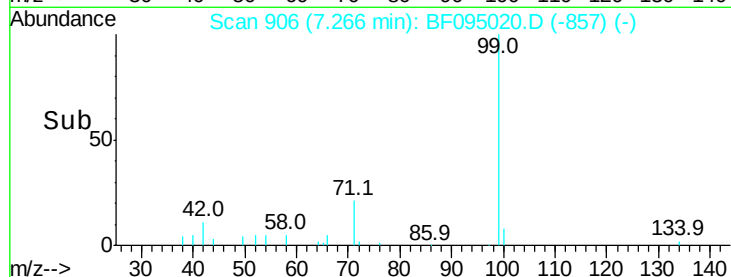
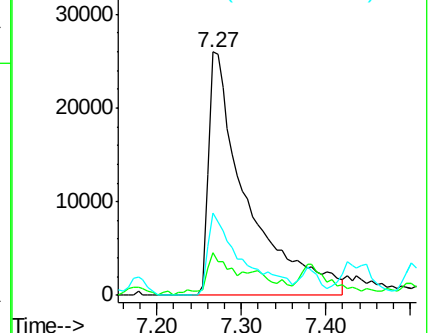
71 33.7 24.5 36.7



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



#18

Hexachloroethane

Concen: 2.42 ng

RT: 8.61 min Scan# 1134

Delta R.T. 0.09 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

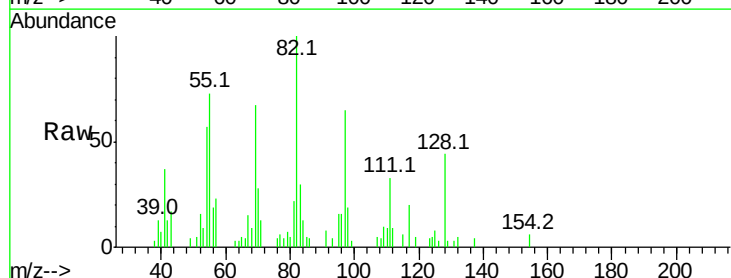
Tgt Ion: 117 Resp: 4772

Ion Ratio Lower Upper

117 100

119 23.1 77.4 116.0#

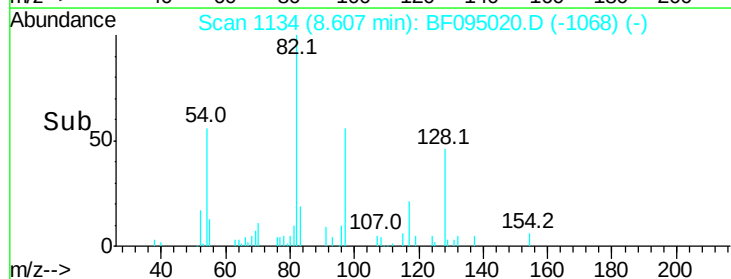
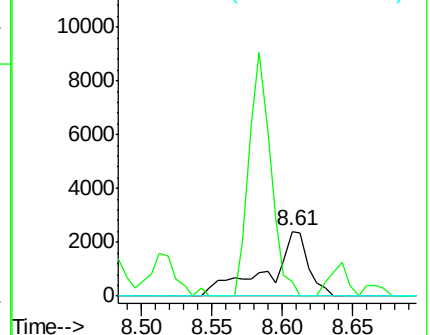
201 0.0 94.6 141.8#

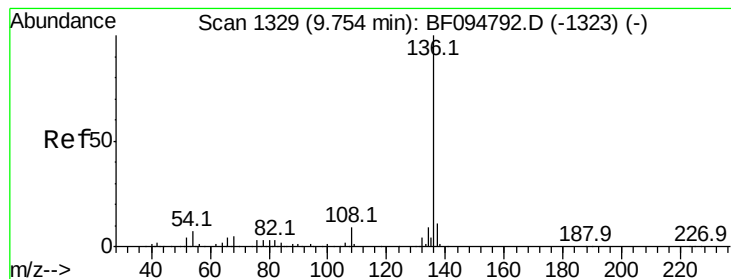


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.73 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 340088

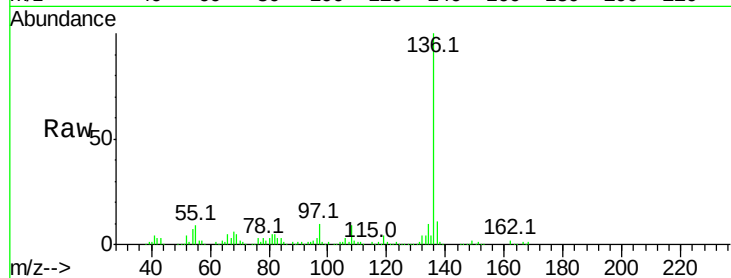
Ion Ratio Lower Upper

136 100

137 10.6 8.5 12.7

54 7.2 4.9 7.3

68 6.4 4.1 6.1#

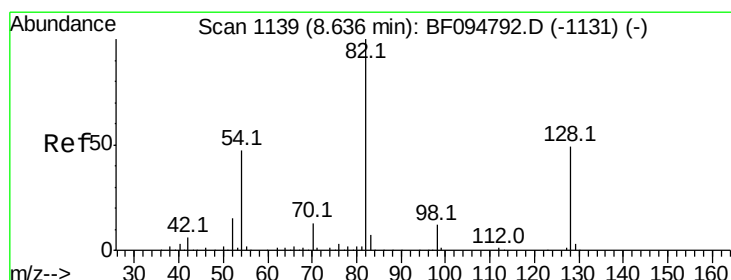
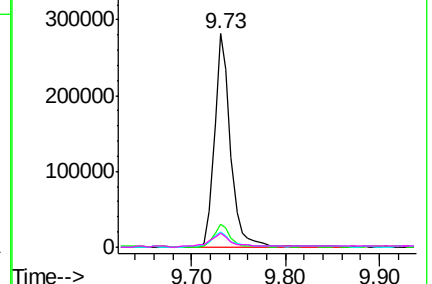
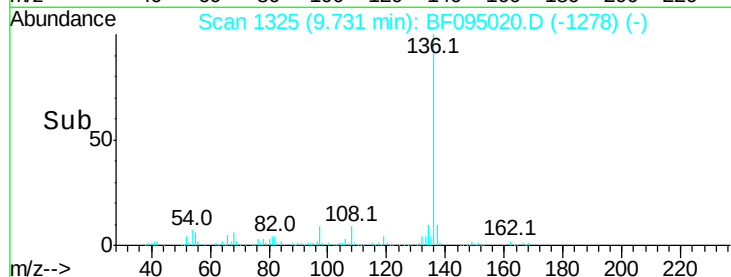


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 9.34 ng

RT: 8.61 min Scan# 1135

Delta R.T. -0.02 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

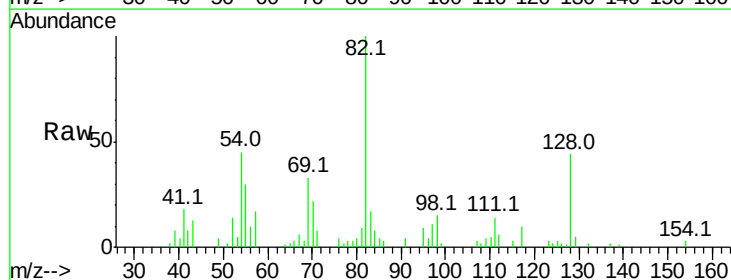
Tgt Ion: 82 Resp: 50354

Ion Ratio Lower Upper

82 100

128 43.9 34.0 51.0

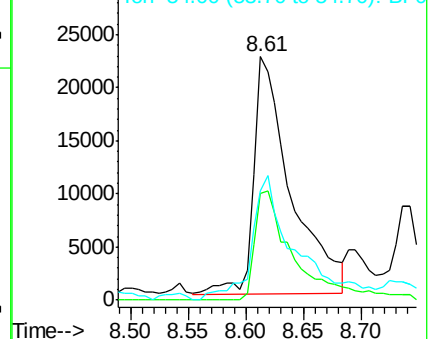
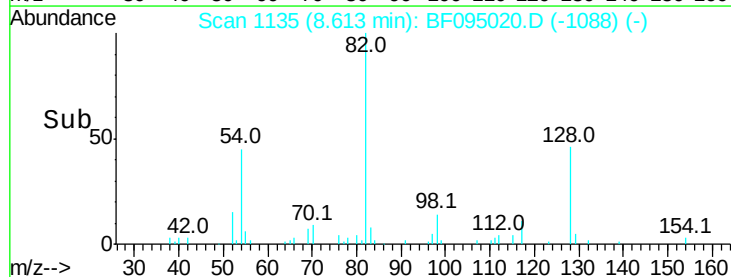
54 44.9 42.2 63.2

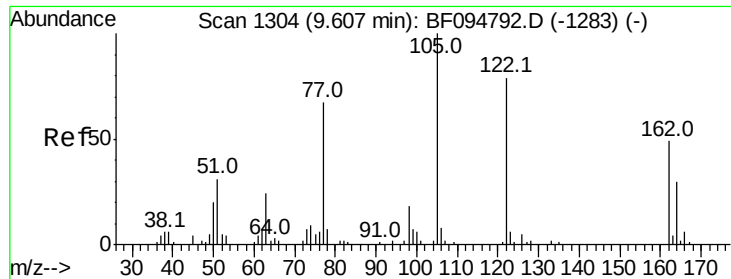


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

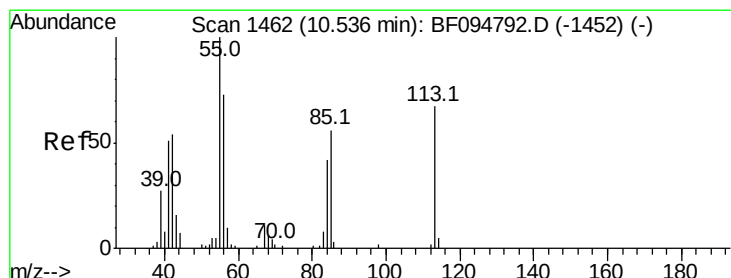
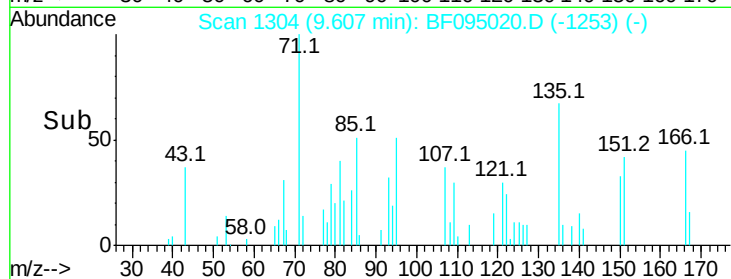
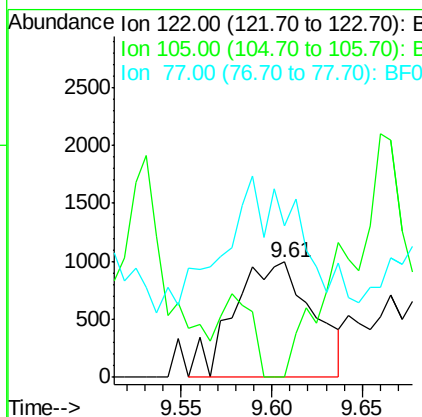
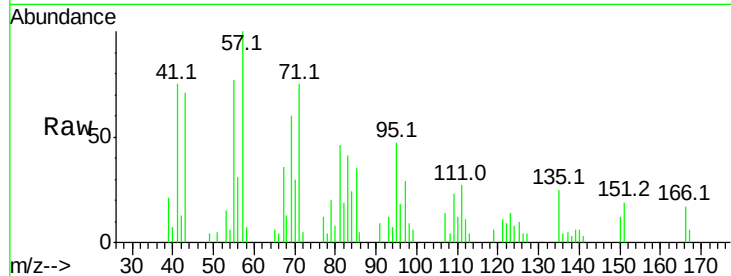




#32
Benzoic acid
Concen: 5.91 ng
RT: 9.61 min Scan# 1304
Delta R.T. 0.00 min
Lab File: BF095020.D
Acq: 9 May 2017 13:11

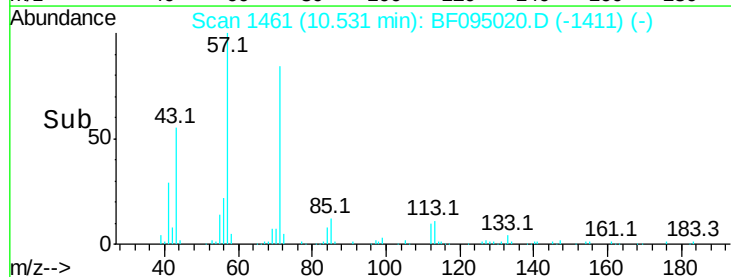
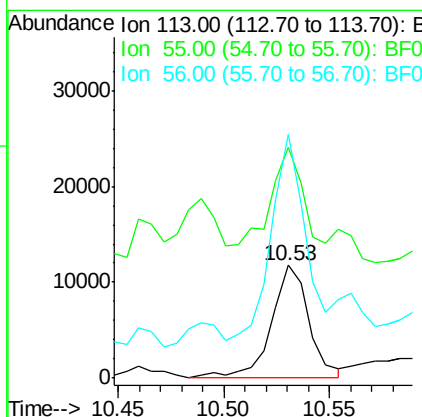
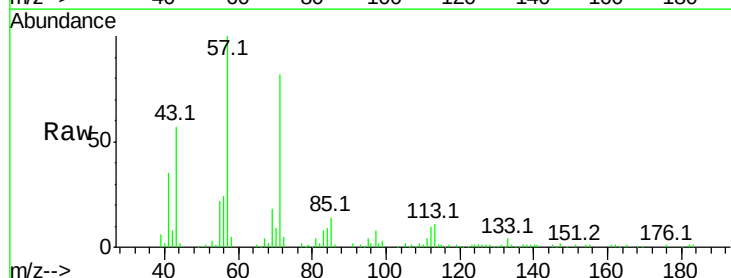
Instrument :
BNA_F
ClientSampleId :

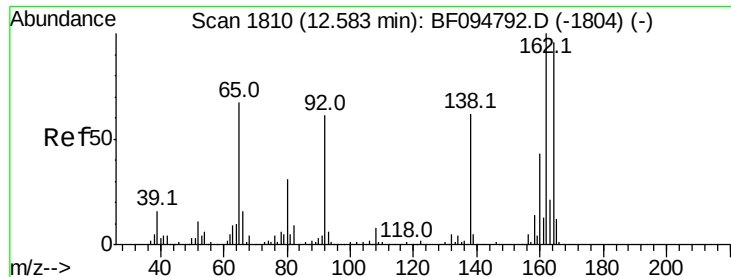
Tot Ion:122 Resp: 3015
Ion Ratio Lower Upper
122 100
105 0.0 103.3 143.3#
77 131.6 73.7 113.7#



#35
Caprolactam
Concen: 10.45 ng
RT: 10.53 min Scan# 1461
Delta R.T. -0.01 min
Lab File: BF095020.D
Acq: 9 May 2017 13:11

Tgt Ion:113 Resp: 14613
Ion Ratio Lower Upper
113 100
55 204.7 150.2 190.2#
56 215.5 107.8 147.8#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.56 min Scan# 1806

Delta R.T. -0.02 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

Instrument :

BNA_F

ClientSampleId :

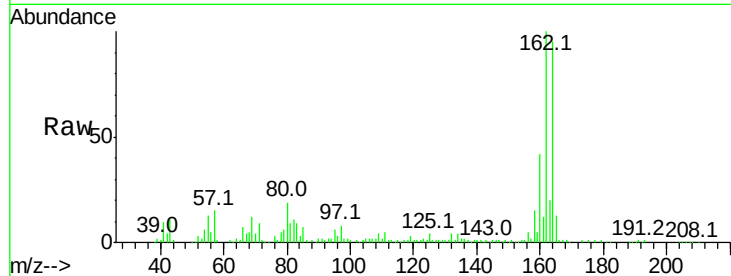
Tot Ion:164 Resp: 150167

Ion Ratio Lower Upper

164 100

162 105.7 82.6 123.8

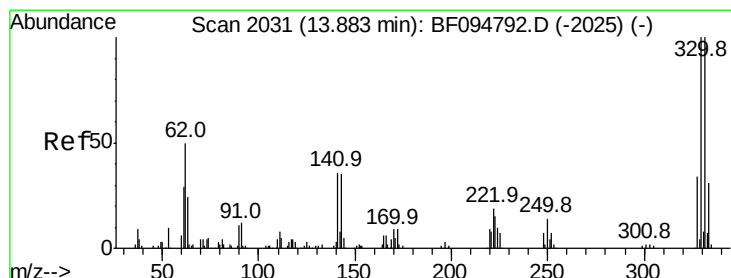
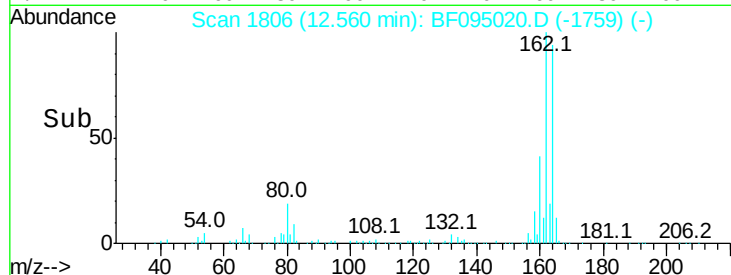
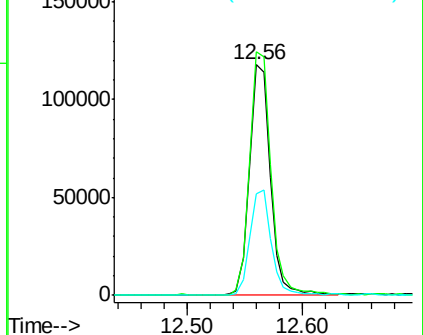
160 44.0 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 14.06 ng

RT: 13.87 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

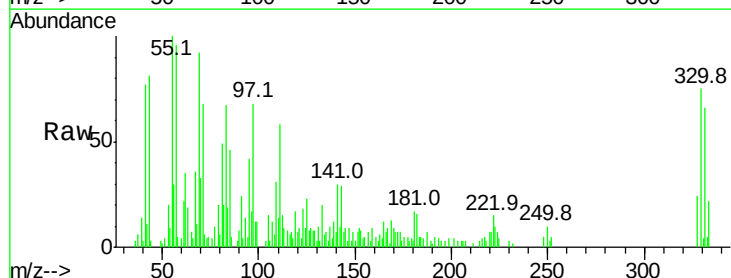
Tgt Ion:330 Resp: 17290

Ion Ratio Lower Upper

330 100

332 94.0 76.6 115.0

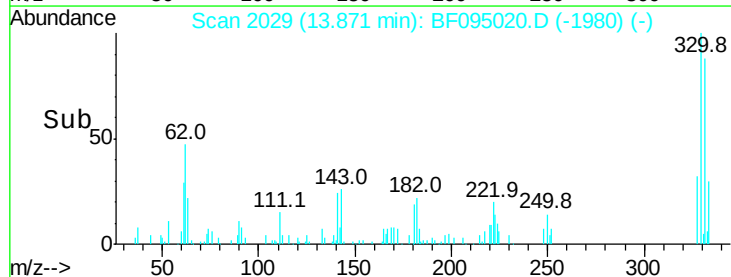
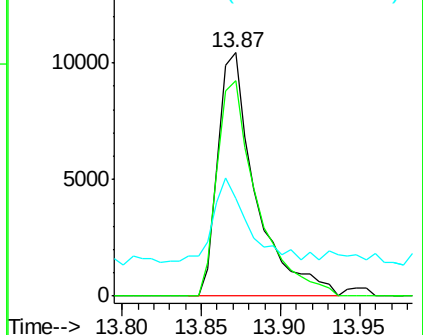
141 30.9 31.4 47.2#

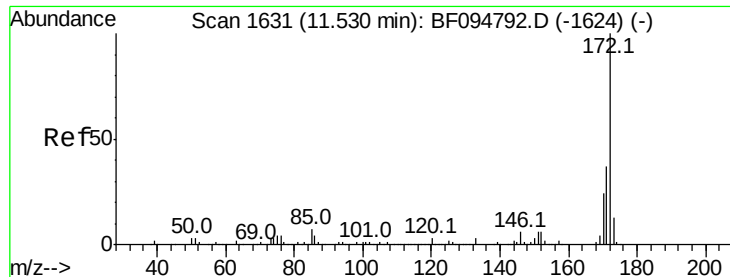


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

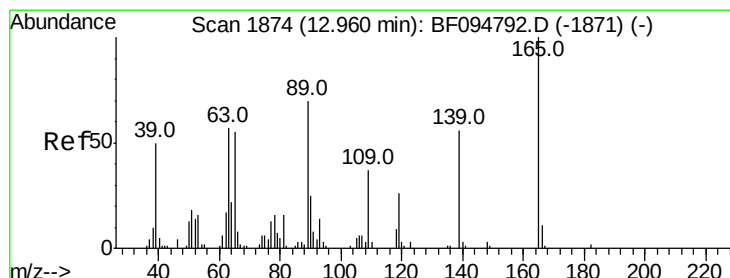
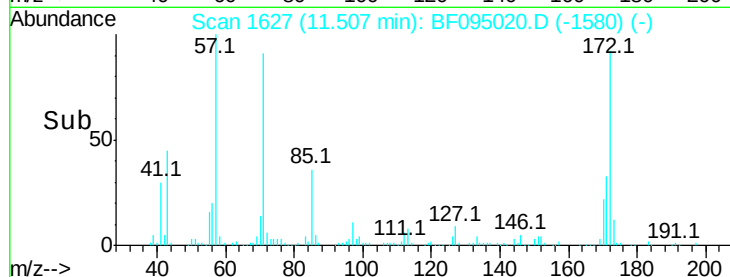
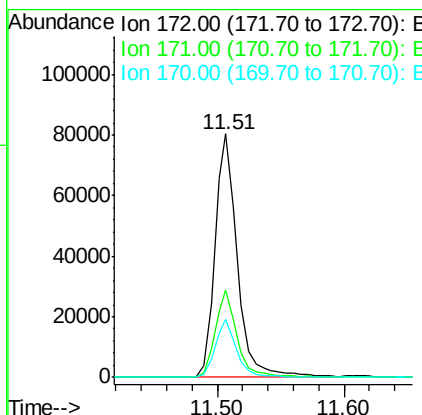
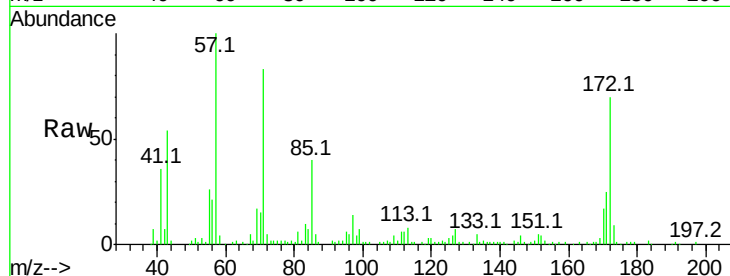




#44
 2-Fluorobiphenyl
 Concen: 9.49 ng
 RT: 11.51 min Scan# 1627
 Delta R.T. -0.02 min
 Lab File: BF095020.D
 Acq: 9 May 2017 13:11

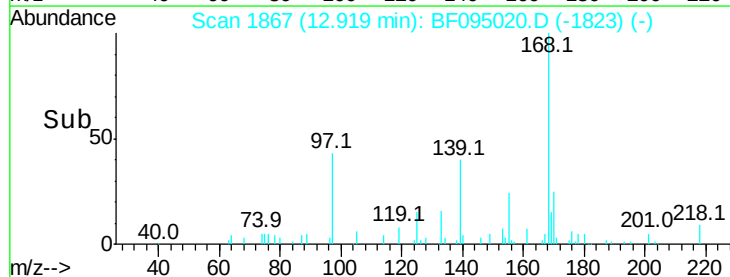
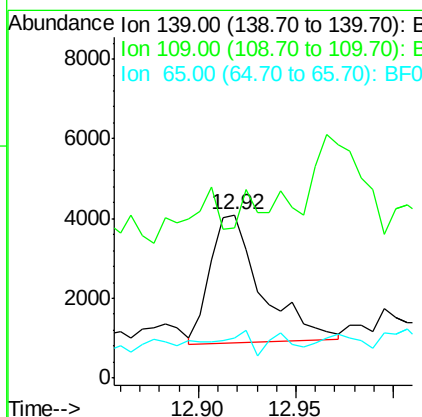
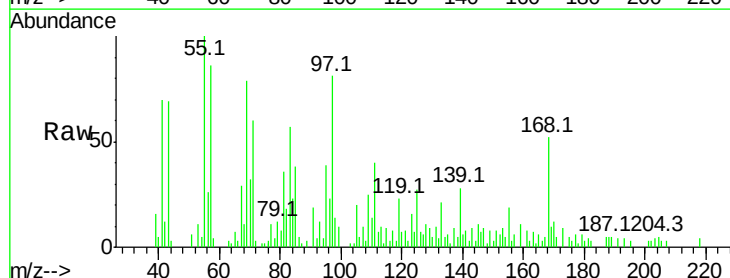
Instrument :
 BNA_F
 ClientSampled :

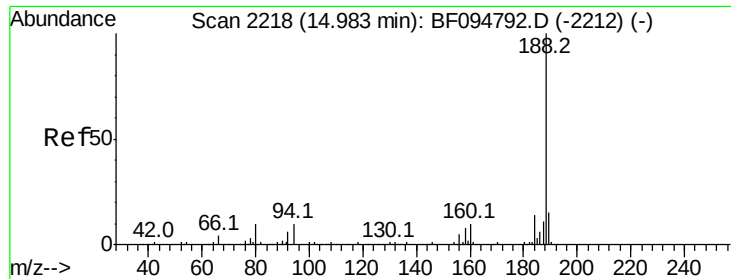
Tot Ion:172 Resp: 99048
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.6 44.4
 170 24.0 19.8 29.8



#55
 4-Nitrophenol
 Concen: 3.58 ng
 RT: 12.92 min Scan# 1867
 Delta R.T. -0.04 min
 Lab File: BF095020.D
 Acq: 9 May 2017 13:11

Tgt Ion:139 Resp: 5797
 Ion Ratio Lower Upper
 139 100
 109 91.7 34.1 74.1#
 65 24.6 31.4 71.4#

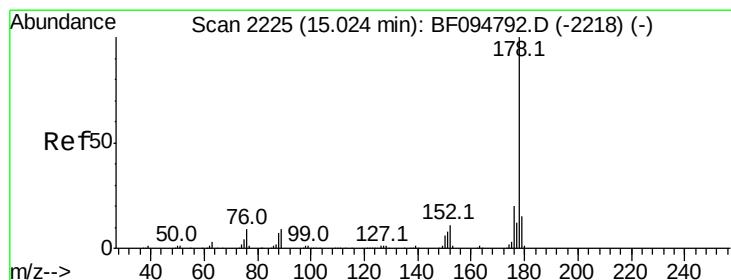
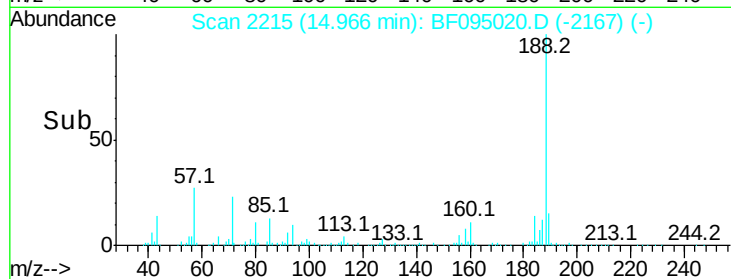
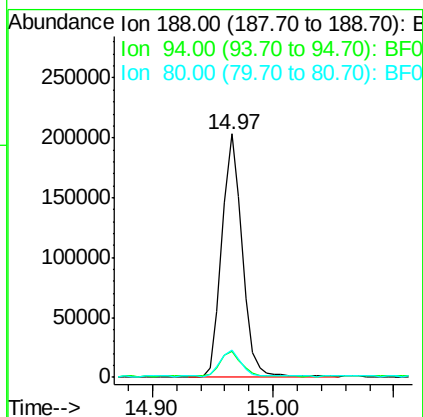
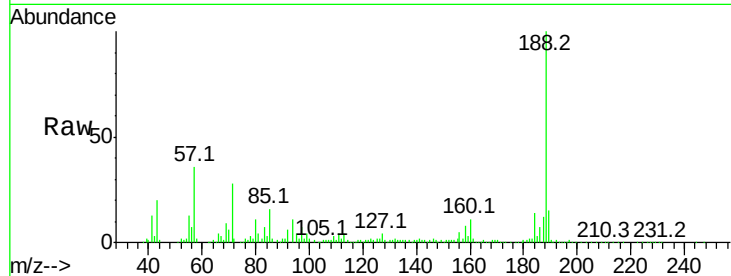




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.97 min Scan# 2215
Delta R.T. -0.02 min
Lab File: BF095020.D
Acq: 9 May 2017 13:11

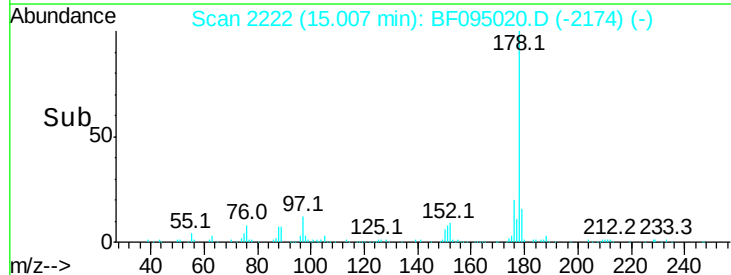
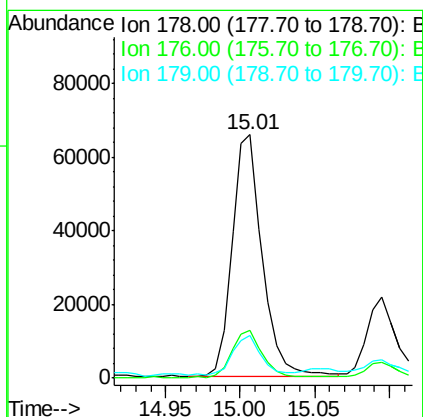
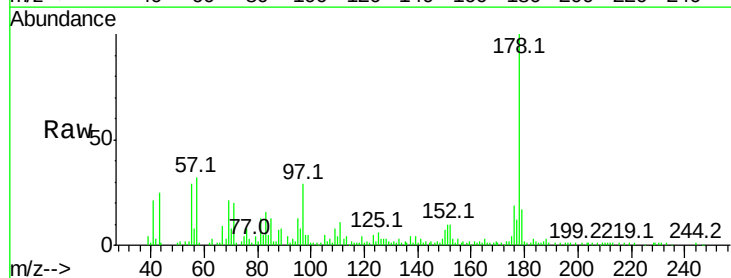
Instrument :
BNA_F
ClientSampleId :

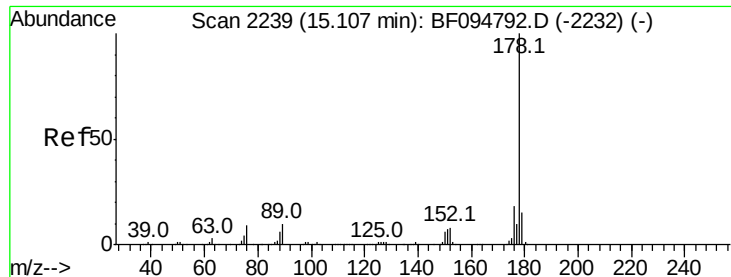
Tot Ion:188 Resp: 238415
Ion Ratio Lower Upper
188 100
94 10.5 9.4 14.2
80 11.1 10.2 15.2



#70
Phenanthrene
Concen: 6.78 ng
RT: 15.01 min Scan# 2222
Delta R.T. -0.02 min
Lab File: BF095020.D
Acq: 9 May 2017 13:11

Tgt Ion:178 Resp: 92846
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 17.3 12.6 19.0





#71

Anthracene

Concen: 6.64 ng

RT: 15.01 min Scan# 2222

Delta R.T. -0.10 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

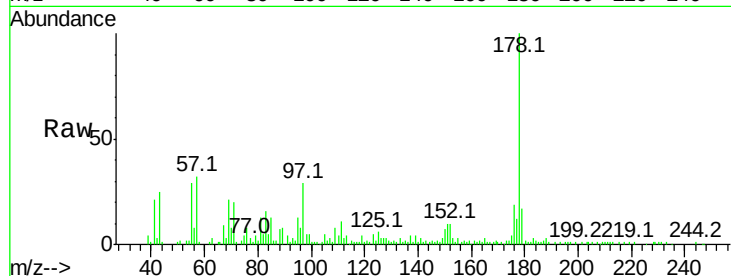
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 92846

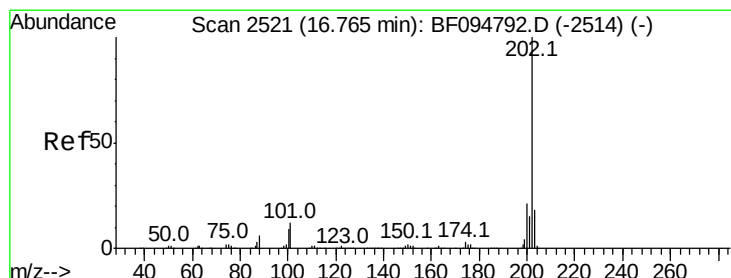
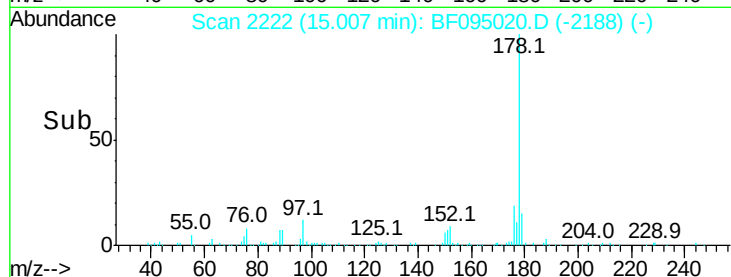
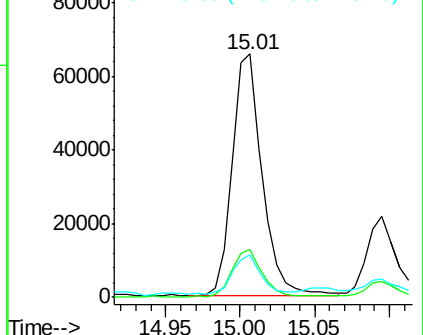
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	17.3	12.7	19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 6.50 ng

RT: 16.75 min Scan# 2518

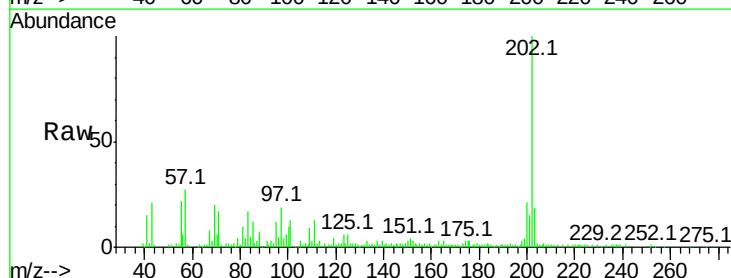
Delta R.T. -0.02 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

Tgt Ion:202 Resp: 91364

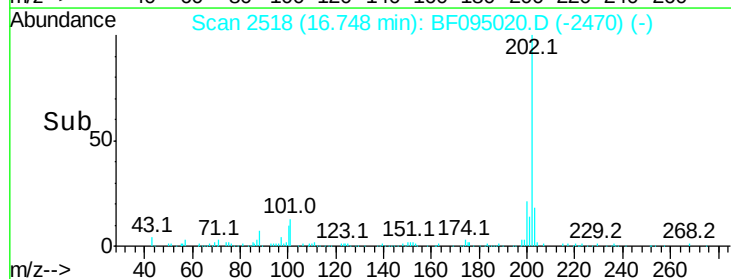
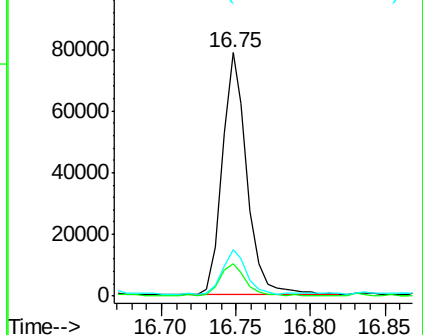
Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	33.2
203	19.0	0.0	38.1

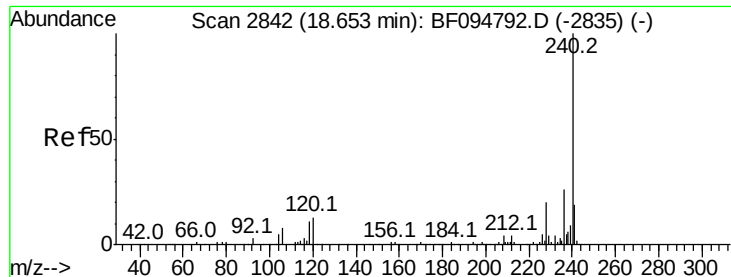


Abundance Ion 202.00 (201.70 to 202.70): E

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: 18.64 min Scan# 2839

Delta R.T. -0.02 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

Instrument :

BNA_F

ClientSampleId :

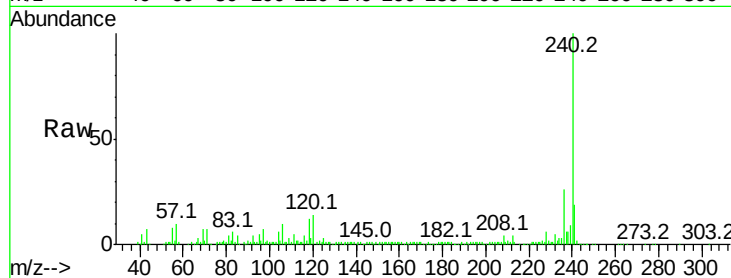
Tot Ion:240 Resp: 192713

Ion Ratio Lower Upper

240 100

120 14.4 5.8 8.8#

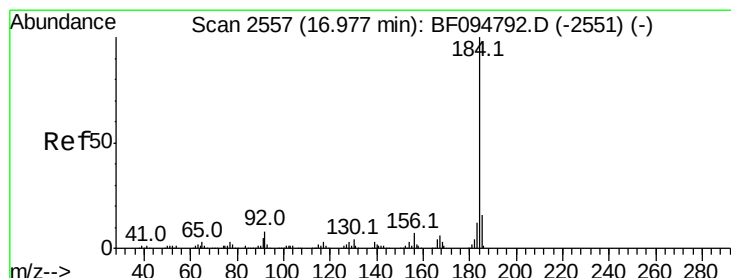
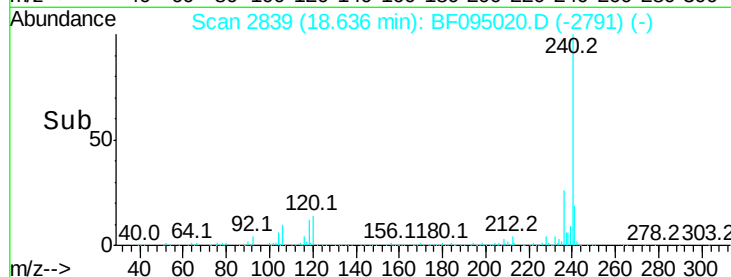
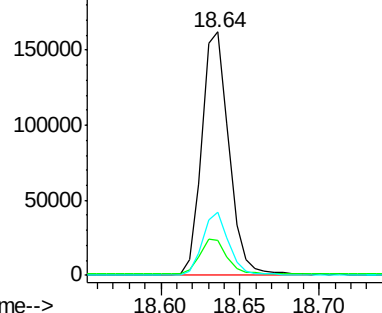
236 25.7 20.5 30.7



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



#76

Benzidine

Concen: 6.65 ng

RT: 16.96 min Scan# 2554

Delta R.T. -0.02 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

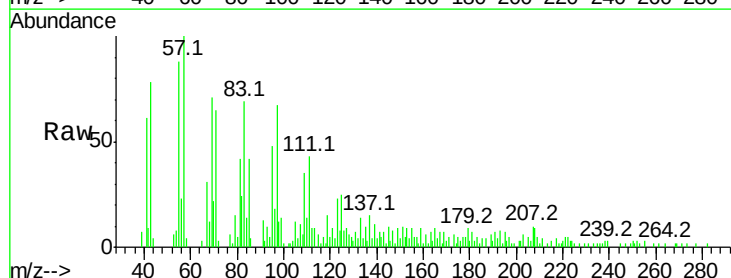
Tgt Ion:184 Resp: 390

Ion Ratio Lower Upper

184 100

185 171.3 15.5 23.3#

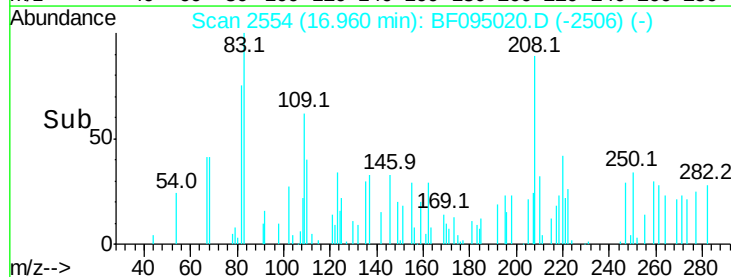
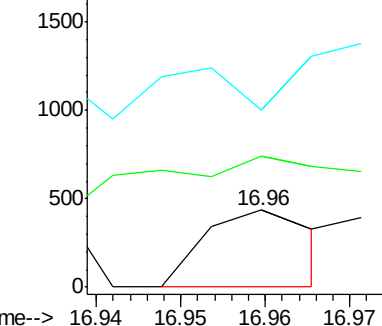
183 230.3 9.8 14.6#

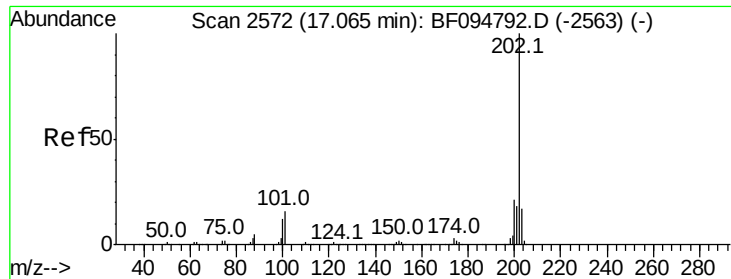


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pvrene

Concen: 7.43 ng

RT: 17.05 min Scan# 2569

Delta R.T. -0.02 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

Instrument :

BNA_F

ClientSampleId :

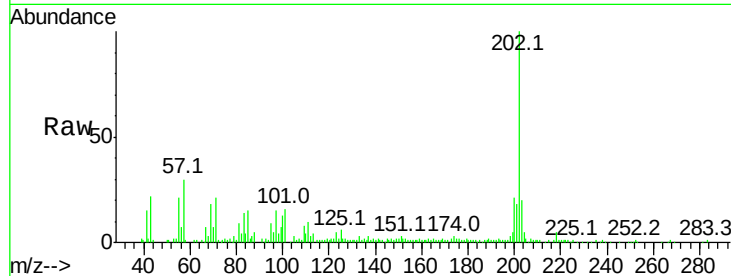
Tot Ion:202 Resp: 107106

Ion Ratio Lower Upper

202 100

200 20.9 17.6 26.4

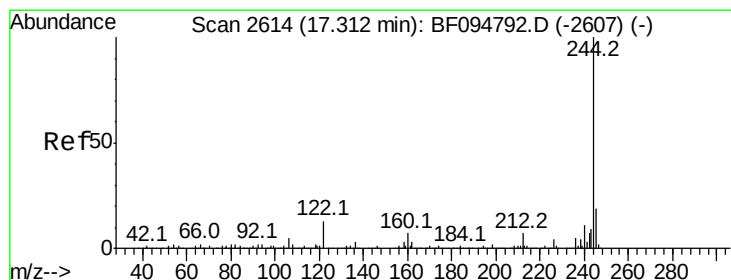
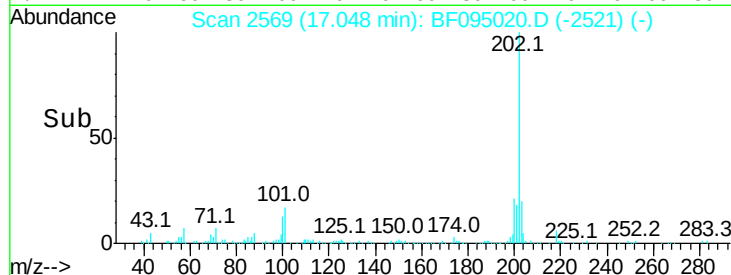
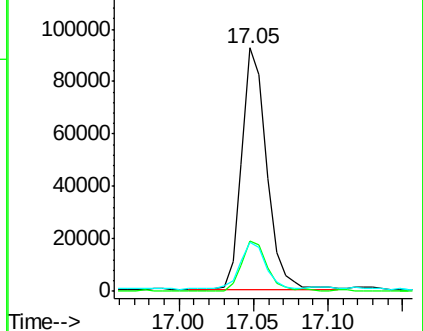
203 20.0 14.4 21.6



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: 6.92 ng

RT: 17.29 min Scan# 2610

Delta R.T. -0.02 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

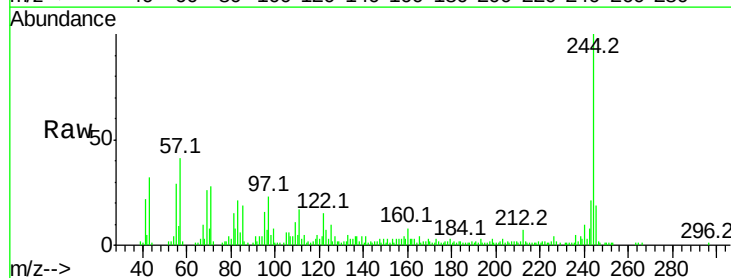
Tgt Ion:244 Resp: 60523

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

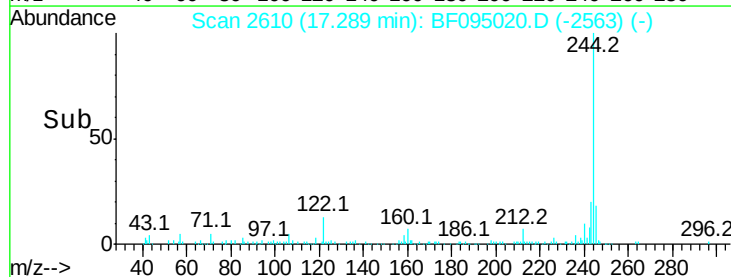
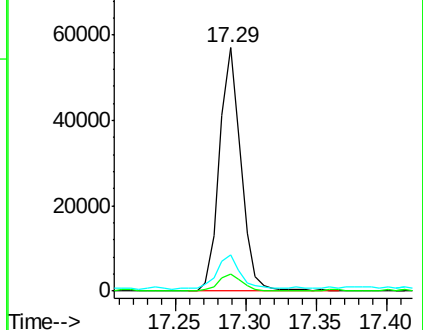
122 14.8 10.3 15.5

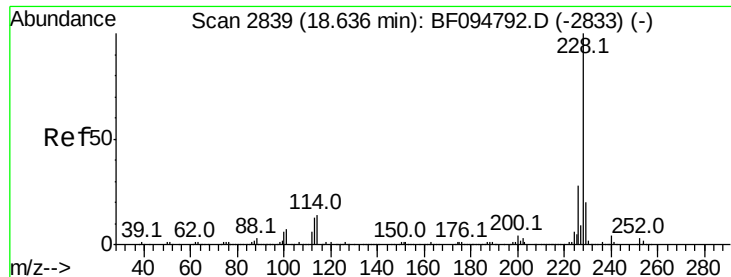


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 3.78 ng

RT: 18.62 min Scan# 2837

Delta R.T. -0.01 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

Instrument :

BNA_F

ClientSampleId :

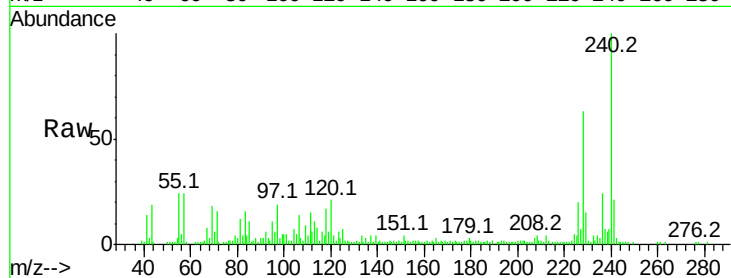
Tot Ion:228 Resp: 42381

Ion Ratio Lower Upper

228 100

226 32.6 22.6 33.8

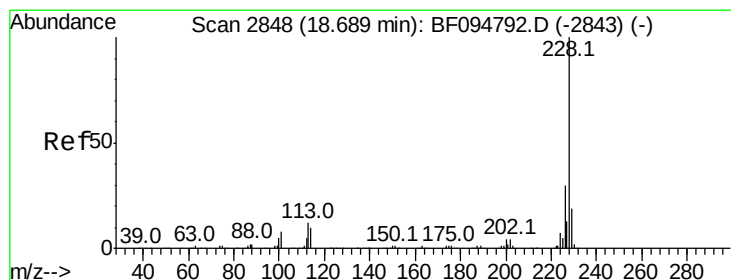
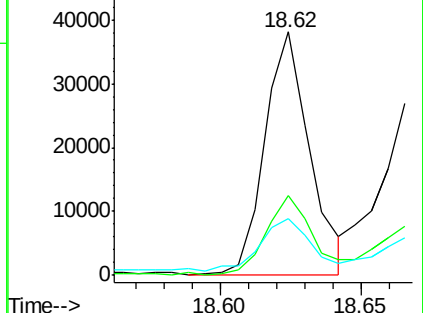
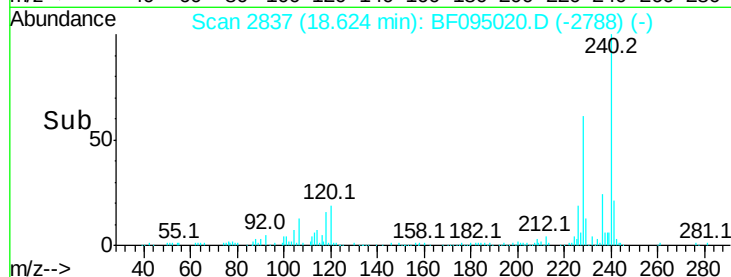
229 23.6 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 3.90 ng

RT: 18.67 min Scan# 2845

Delta R.T. -0.02 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

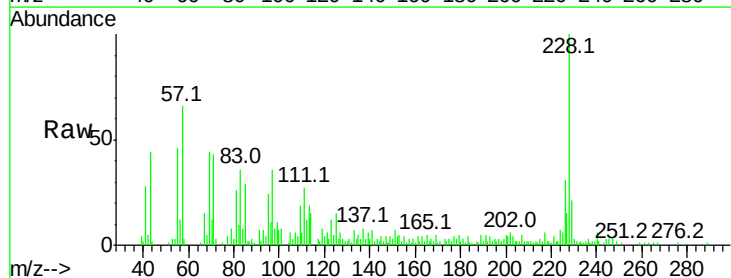
Tgt Ion:228 Resp: 42349

Ion Ratio Lower Upper

228 100

226 30.9 24.9 37.3

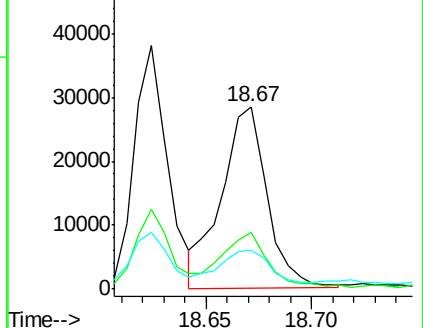
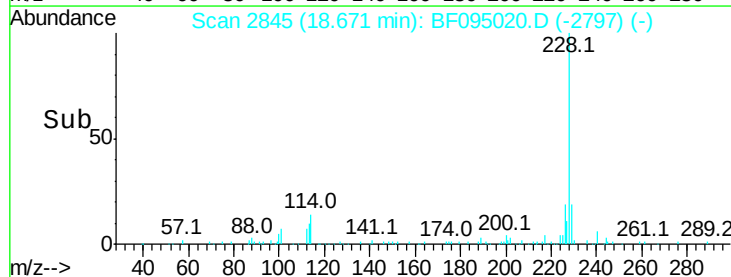
229 21.2 15.8 23.6

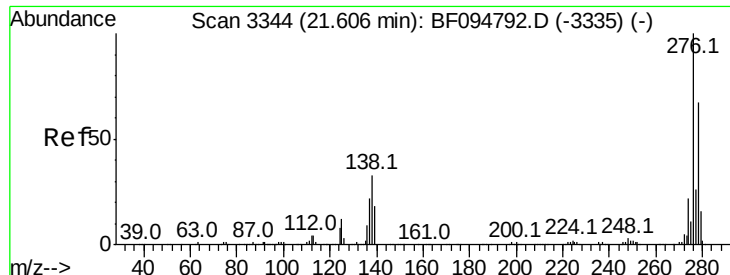


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

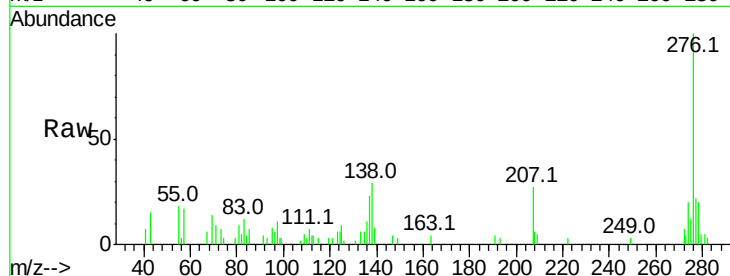




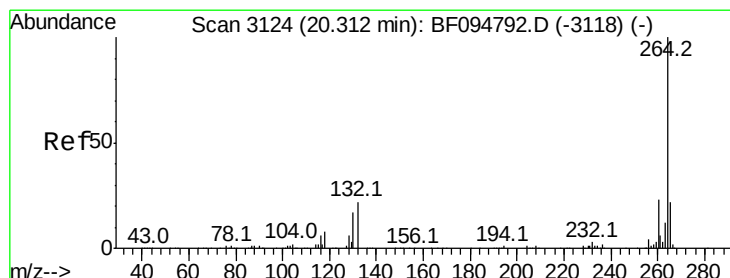
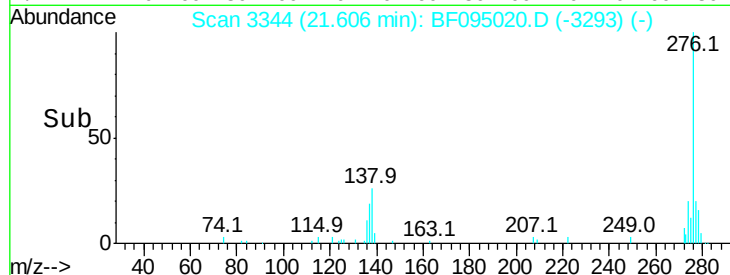
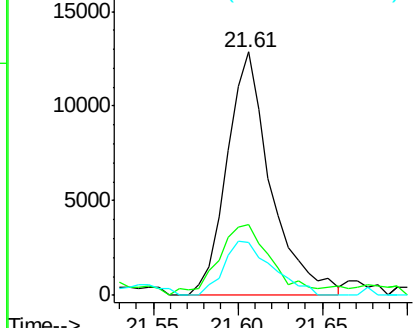
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.63 ng
 RT: 21.61 min Scan# 3344
 Delta R.T. 0.00 min
 Lab File: BF095020.D
 Acq: 9 May 2017 13:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 23181
 Ion Ratio Lower Upper
 276 100
 138 35.1 27.8 41.6
 277 24.5 20.2 30.4

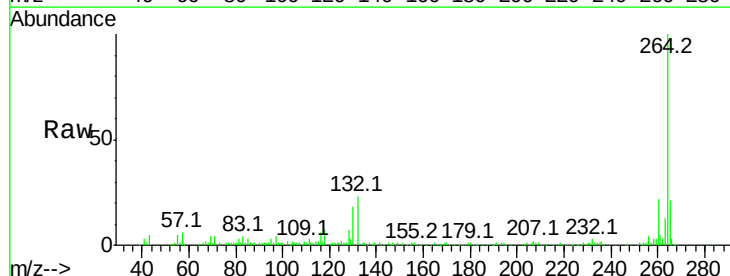


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

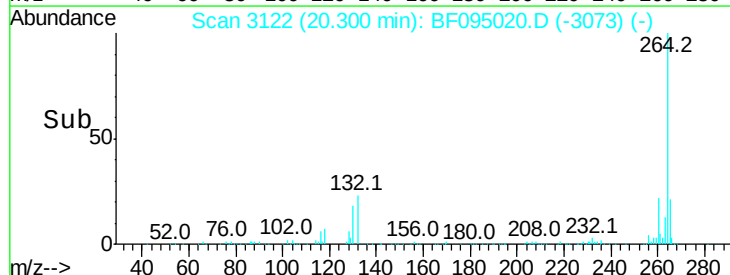
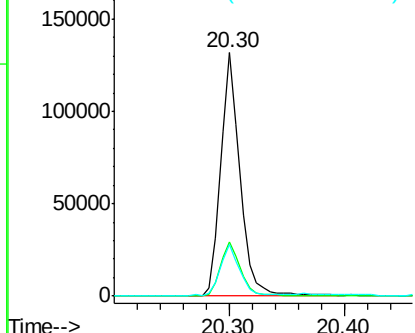


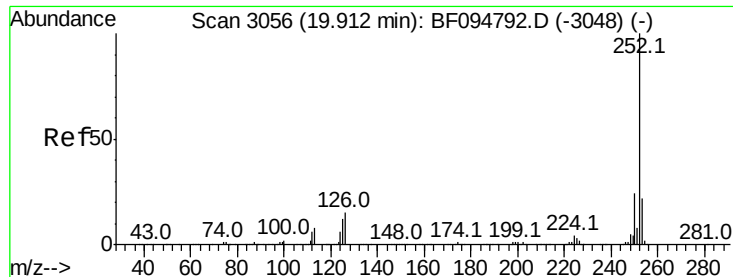
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.30 min Scan# 3122
 Delta R.T. -0.01 min
 Lab File: BF095020.D
 Acq: 9 May 2017 13:11

Tgt Ion:264 Resp: 153170
 Ion Ratio Lower Upper
 264 100
 260 22.0 19.5 29.3
 265 21.2 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: 7.73 ng

RT: 19.90 min Scan# 3054

Delta R.T. -0.01 min

Lab File: BF095020.D

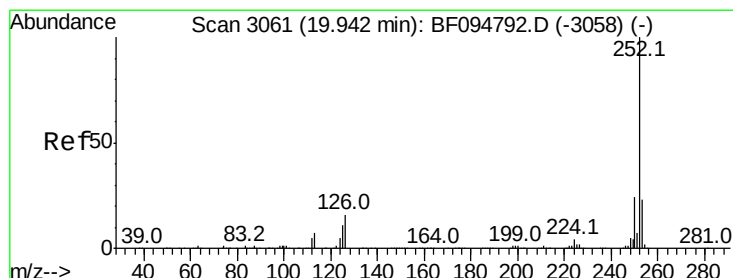
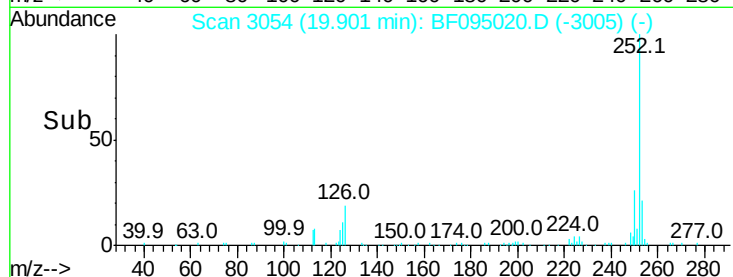
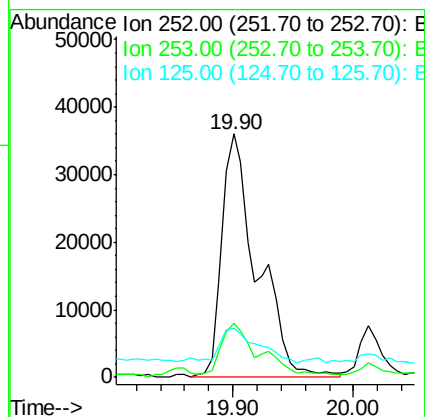
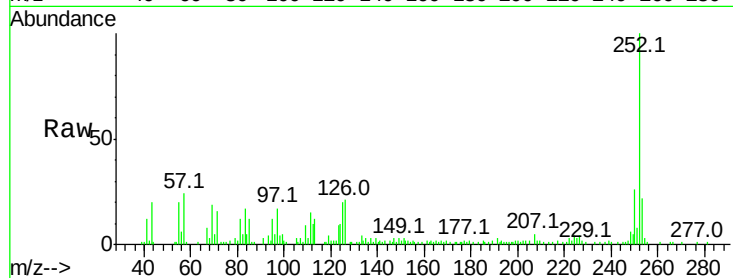
Acq: 9 May 2017 13:11

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	73204
Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	20.1	9.8	14.8#



#88

Benzo(k)fluoranthene

Concen: 8.02 ng

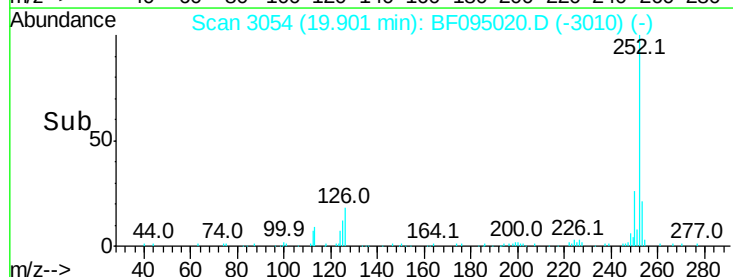
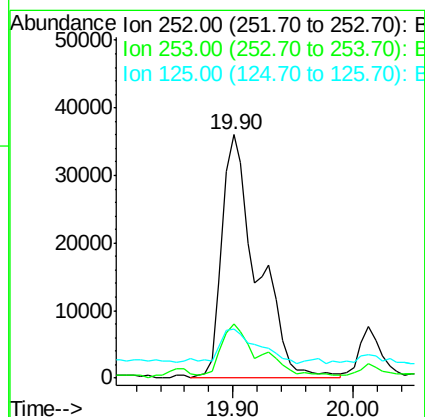
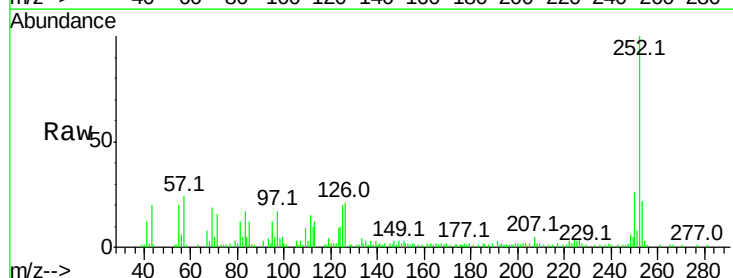
RT: 19.90 min Scan# 3054

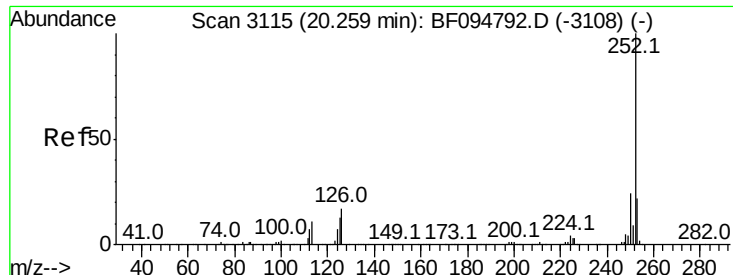
Delta R.T. -0.04 min

Lab File: BF095020.D

Acq: 9 May 2017 13:11

Tgt Ion:	252	Resp:	73204
Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.4	27.6
125	20.1	13.1	19.7#

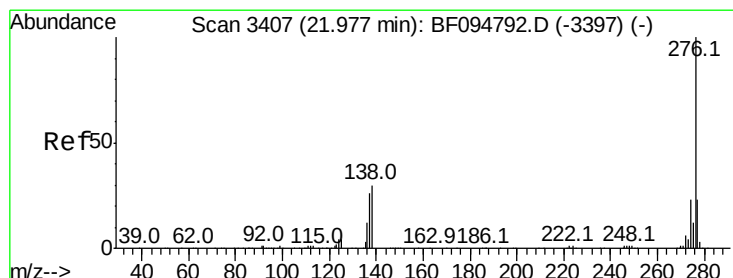
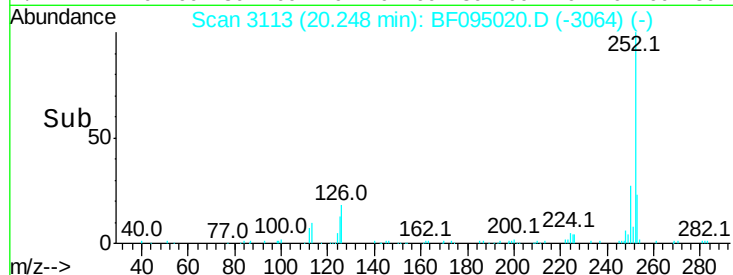
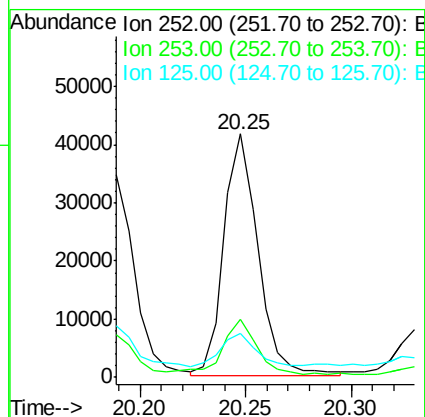
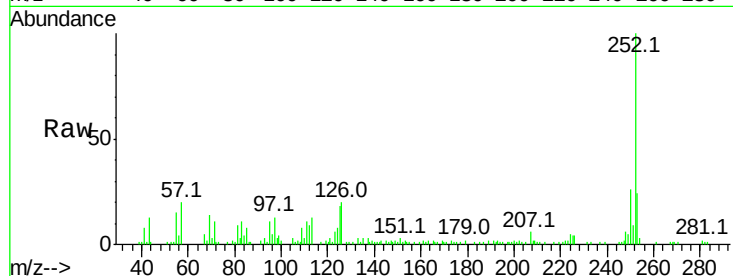




#89
Benzo(a)pyrene
Concen: 5.31 ng
RT: 20.25 min Scan# 3113
Delta R.T. -0.01 min
Lab File: BF095020.D
Acq: 9 May 2017 13:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	252	Resp:	46405
Ion Ratio		Lower	Upper
252	100		
253	23.7	17.5	26.3
125	18.2	11.0	16.4



#91
Benzo(g,h,i)perylene
Concen: 3.83 ng
RT: 21.98 min Scan# 3408
Delta R.T. 0.01 min
Lab File: BF095020.D
Acq: 9 May 2017 13:11

Tgt Ion:	276	Resp:	27101
Ion Ratio		Lower	Upper
276	100		
277	22.3	18.6	28.0
138	29.7	25.4	38.0

