

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060617\
 Data File : BF095730.D
 Acq On : 7 Jun 2017 2:23
 Operator : SJ/MA
 Sample : I3482-10 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 07 04:34:13 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 05 16:15:31 2017
 Response via : Initial Calibration

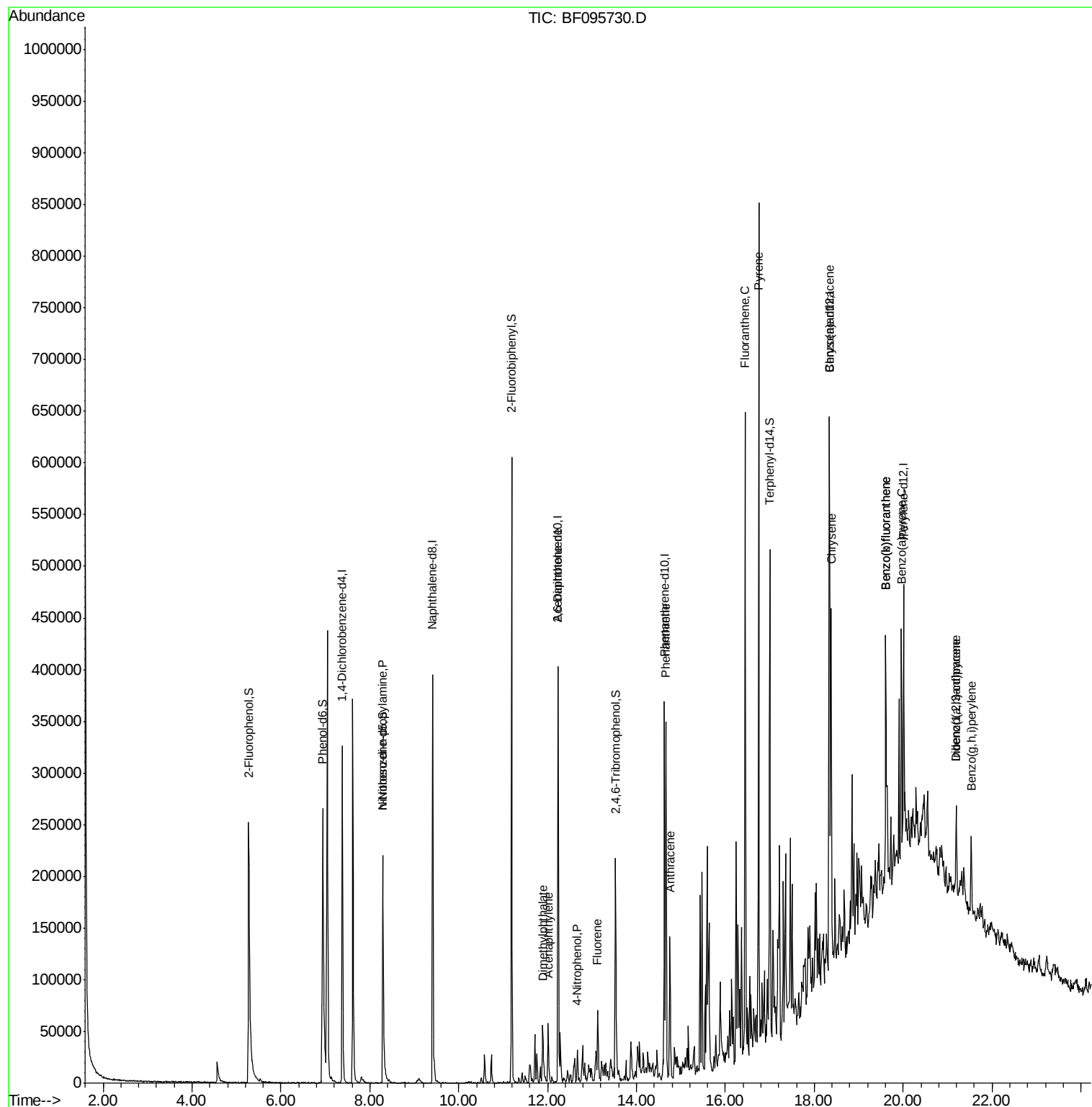
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.38	152	76617	20.00	ng	-0.02
21) Naphthalene-d8	9.42	136	282695	20.00	ng	-0.02
38) Acenaphthene-d10	12.23	164	112141	20.00	ng	-0.02
63) Phenanthrene-d10	14.63	188	171337	20.00	ng	-0.02
75) Chrysene-d12	18.34	240	140069	20.00	ng	-0.01
86) Perylene-d12	20.01	264	105342	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	182745	38.01	ng	-0.01
7) Phenol-d6	6.94	99	229230	39.82	ng	-0.02
23) Nitrobenzene-d5	8.29	82	126173	27.72	ng	-0.03
41) 2,4,6-Tribromophenol	13.53	330	35076	35.35	ng	-0.02
44) 2-Fluorobiphenyl	11.19	172	243886	30.26	ng	-0.02
78) Terphenyl-d14	17.00	244	159971	28.34	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	8.29	70	16012	4.39	ng	# 74
48) Acenaphthylene	12.01	152	40705	3.30	ng	99
49) Dimethylphthalate	11.89	163	27876	3.27	ng	# 99
50) 2,6-Dinitrotoluene	12.23	165	14044	7.56	ng	# 31
55) 4-Nitrophenol	12.67	139	300	4.85	ng	# 25
57) Fluorene	13.13	166	26225	3.00	ng	# 97
70) Phenanthrene	14.66	178	189687	19.19	ng	96
71) Anthracene	14.75	178	80926	7.84	ng	97
74) Fluoranthene	16.44	202	298600	30.52	ng	99
77) Pyrene	16.75	202	366921	35.11	ng	97
80) Benzo(a)anthracene	18.33	228	163167	20.04	ng	96
82) Chrysene	18.38	228	161493	19.84	ng	98
85) Indeno(1,2,3-cd)pyrene	21.20	276	47514	6.82	ng	94
87) Benzo(b)fluoranthene	19.61	252	170683	25.88	ng	# 96
88) Benzo(k)fluoranthene	19.61	252	170683	27.07	ng	97
89) Benzo(a)pyrene	19.96	252	102998	16.99	ng	# 96
90) Dibenzo(a,h)anthracene	21.20	278	15398	2.99	ng	# 88
91) Benzo(g,h,i)perylene	21.53	276	49258	9.40	ng	97

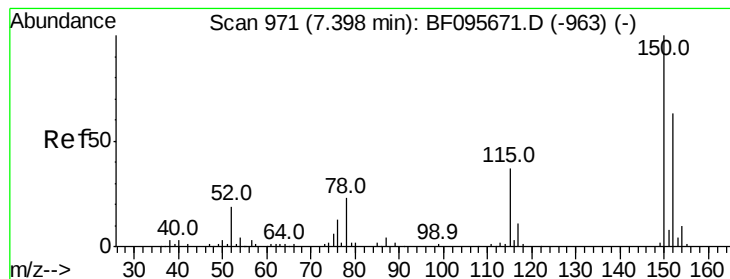
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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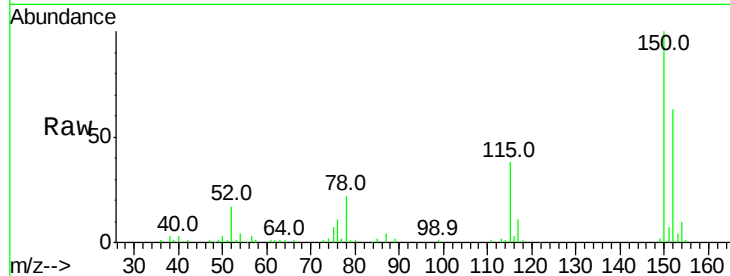


#1

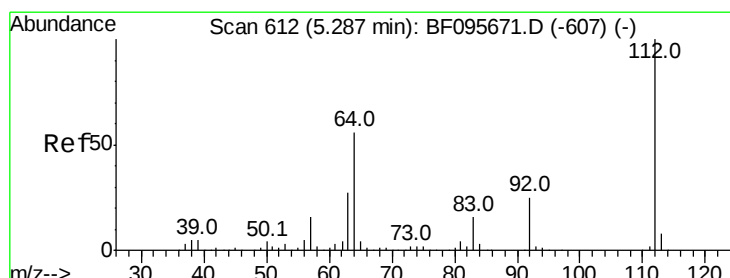
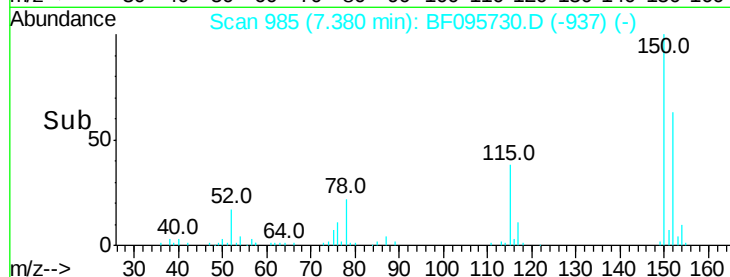
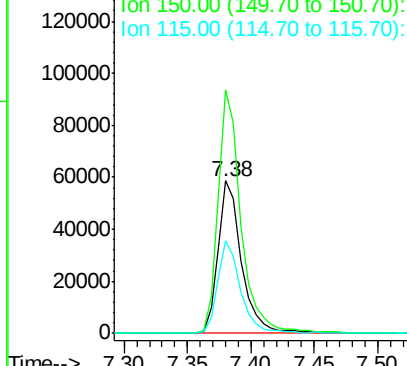
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.38 min Scan# 985
Delta R.T. -0.02 min
Lab File: BF095730.D
Acq: 7 Jun 2017 2:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 76617
Ion Ratio Lower Upper
152 100
150 159.6 126.2 189.2
115 60.6 52.2 78.2



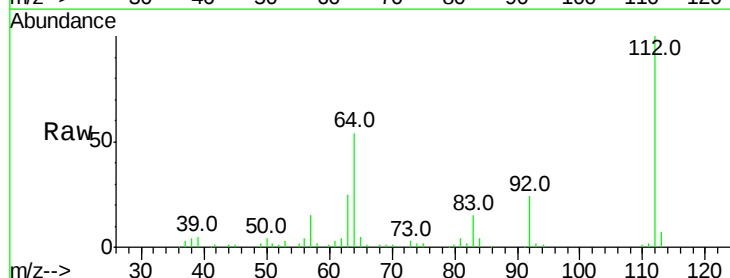
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



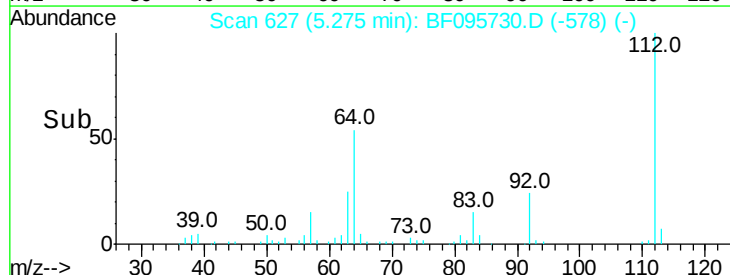
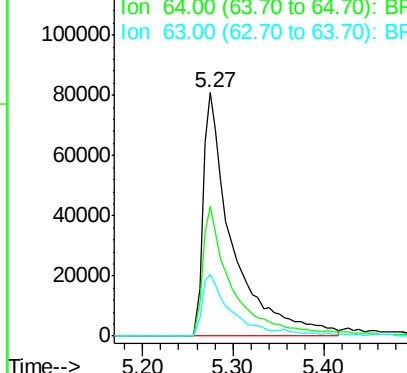
#5

2-Fluorophenol
Concen: 38.01 ng
RT: 5.27 min Scan# 627
Delta R.T. -0.01 min
Lab File: BF095730.D
Acq: 7 Jun 2017 2:23

Tgt Ion:112 Resp: 182745
Ion Ratio Lower Upper
112 100
64 53.5 46.0 69.0
63 25.2 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: 39.82 ng

RT: 6.94 min Scan# 910

Delta R.T. -0.02 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

Instrument :

BNA_F

ClientSampled :

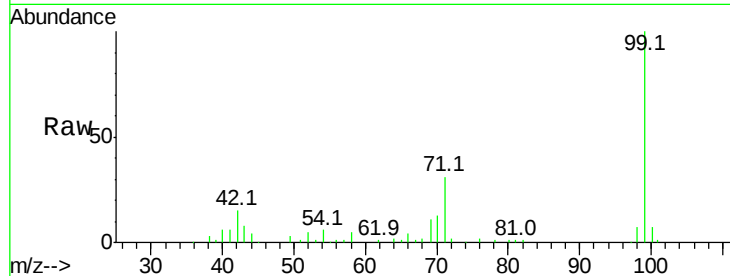
Tot Ion: 99 Resp: 229230

Ion Ratio Lower Upper

99 100

42 15.2 13.5 20.3

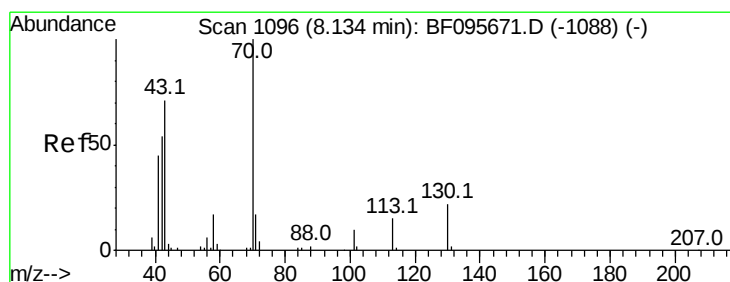
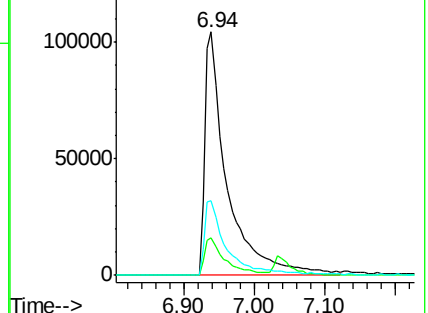
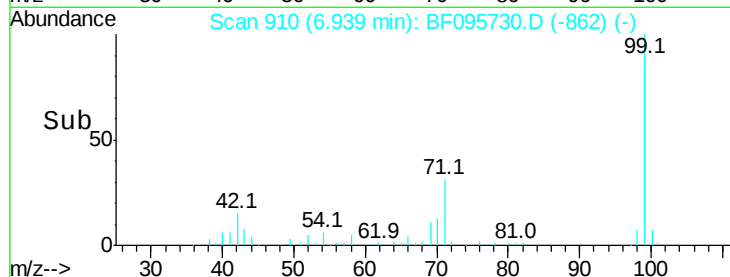
71 30.6 24.5 36.7



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: 4.39 ng

RT: 8.29 min Scan# 1140

Delta R.T. 0.16 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

Tgt Ion: 70 Resp: 16012

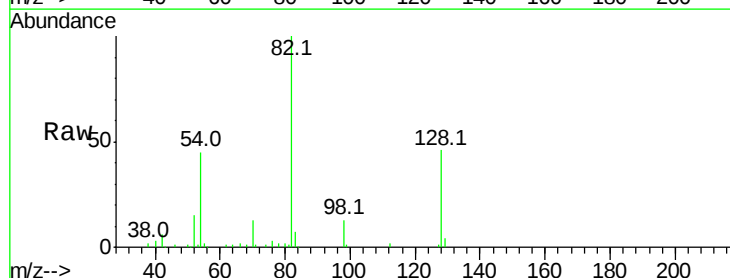
Ion Ratio Lower Upper

70 100

42 44.0 47.2 70.8#

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#

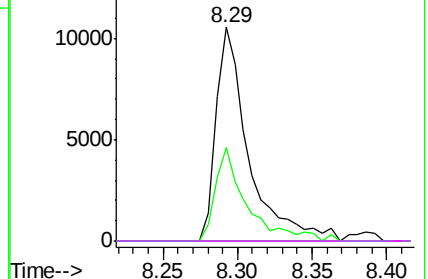
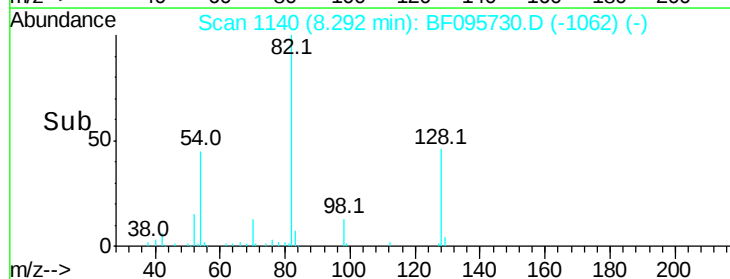


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.42 min Scan# 1331

Delta R.T. -0.02 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 282695

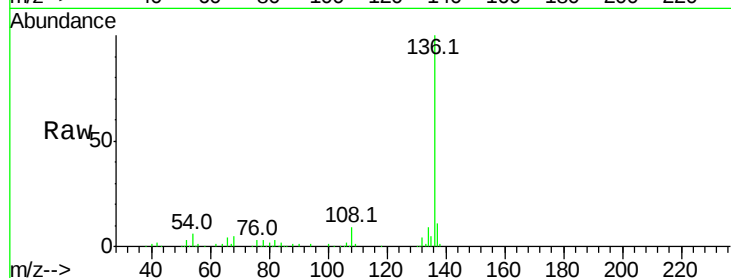
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 6.2 4.9 7.3

68 5.4 4.1 6.1

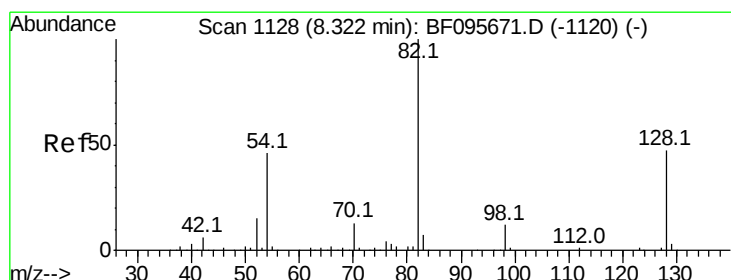
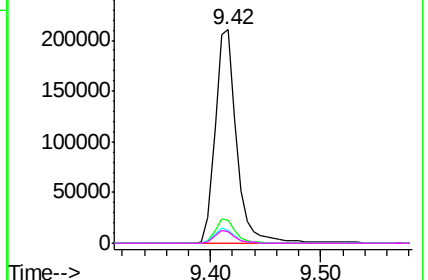
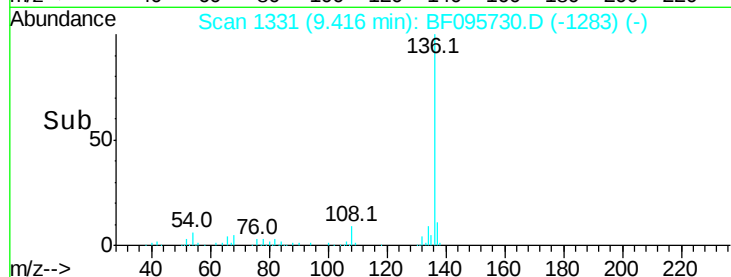


Abundance Ion 136.00 (135.70 to 136.70): E

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: 27.72 ng

RT: 8.29 min Scan# 1140

Delta R.T. -0.03 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

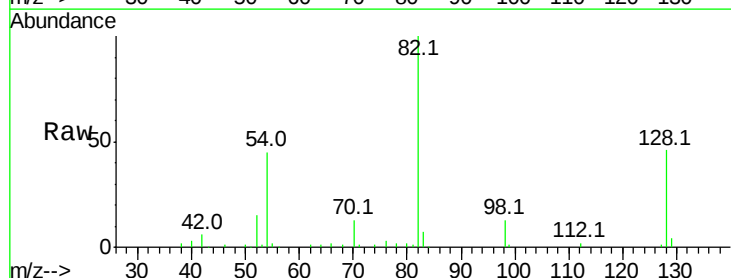
Tgt Ion: 82 Resp: 126173

Ion Ratio Lower Upper

82 100

128 46.5 34.0 51.0

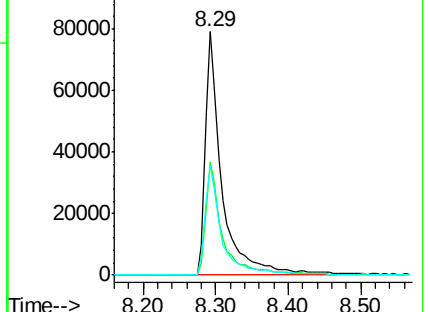
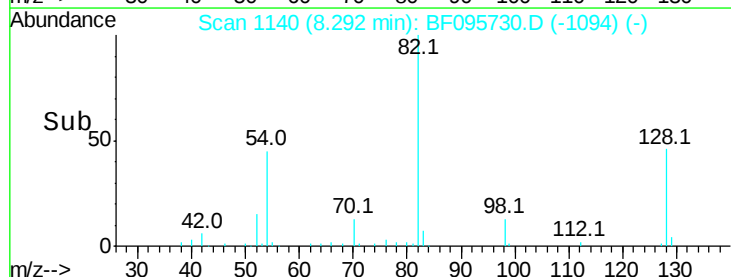
54 44.6 42.2 63.2

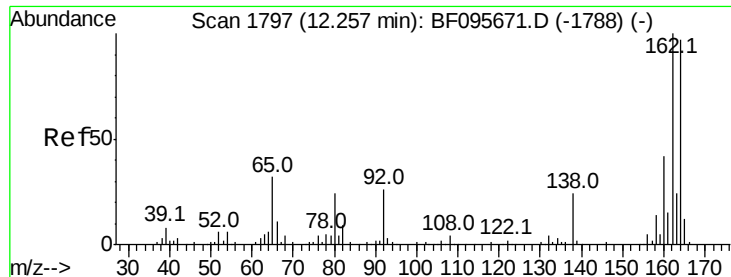


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.23 min Scan# 1810

Delta R.T. -0.02 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

Instrument :

BNA_F

ClientSampleId :

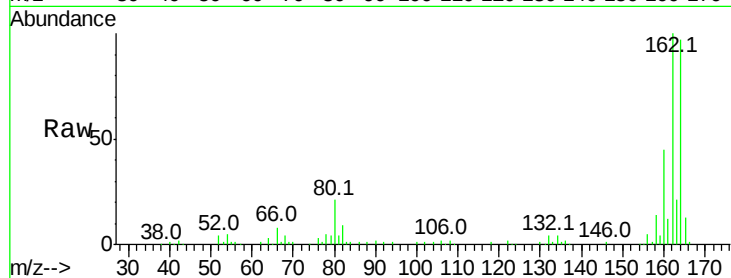
Tot Ion:164 Resp: 112141

Ion Ratio Lower Upper

164 100

162 102.9 82.6 123.8

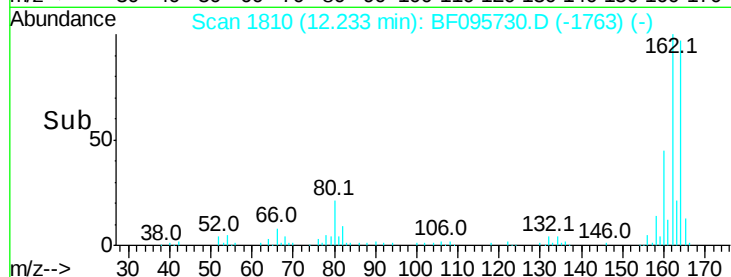
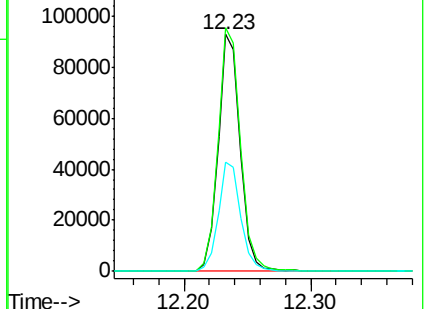
160 45.9 36.2 54.2



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: 35.35 ng

RT: 13.53 min Scan# 2030

Delta R.T. -0.02 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

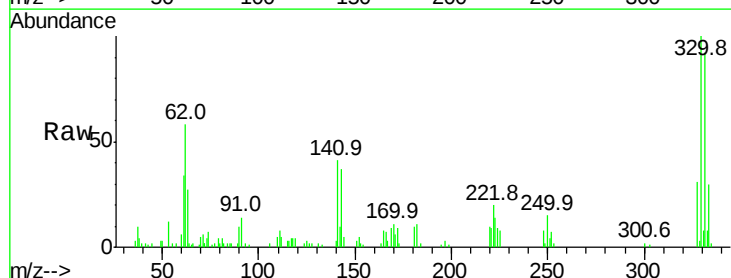
Tgt Ion:330 Resp: 35076

Ion Ratio Lower Upper

330 100

332 95.2 76.6 115.0

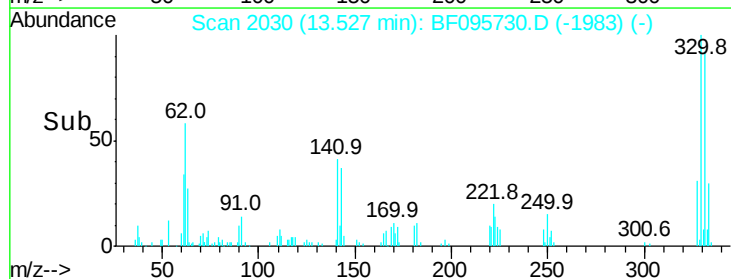
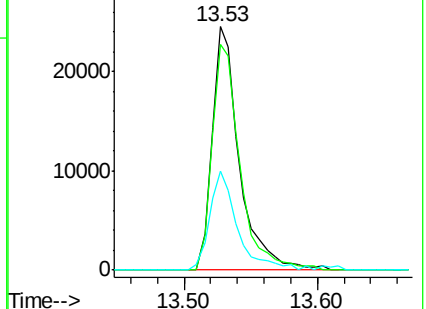
141 41.4 31.4 47.2



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

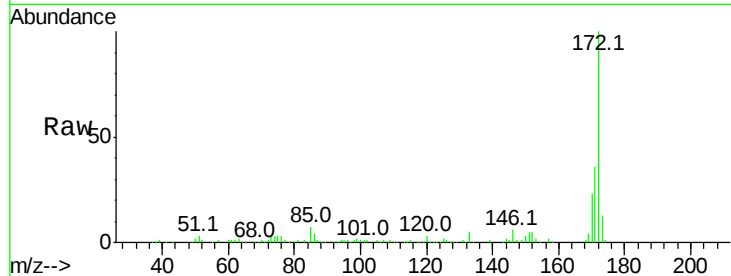




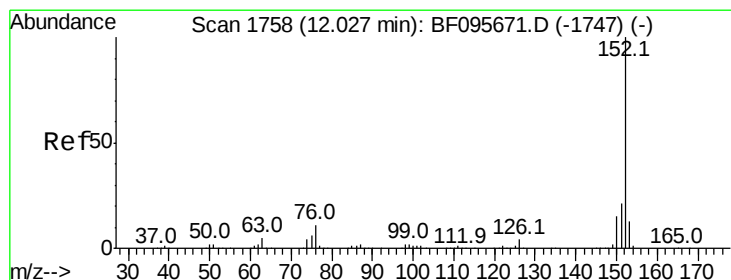
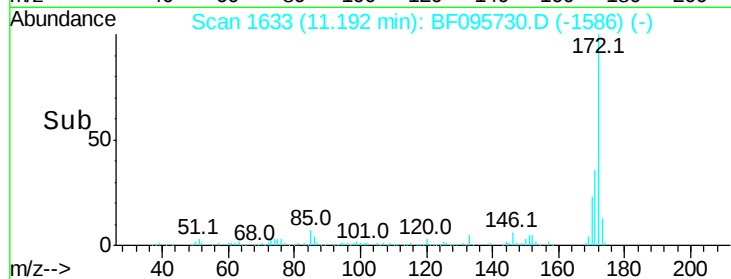
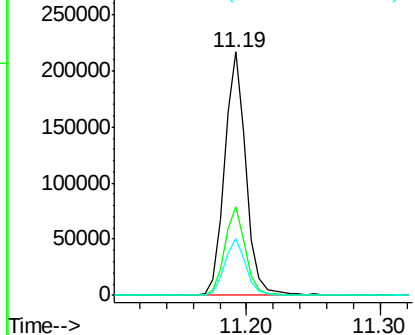
#44
2-Fluorobiphenyl
Concen: 30.26 ng
RT: 11.19 min Scan# 1633
Delta R.T. -0.02 min
Lab File: BF095730.D
Acq: 7 Jun 2017 2:23

Instrument :
BNA_F
ClientSampled :

Tot Ion:172 Resp: 243886
Ion Ratio Lower Upper
172 100
171 36.2 29.6 44.4
170 23.2 19.8 29.8

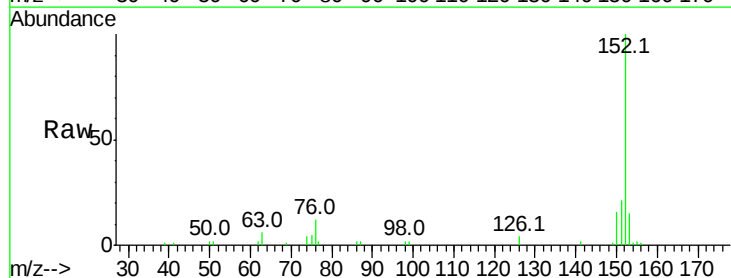


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

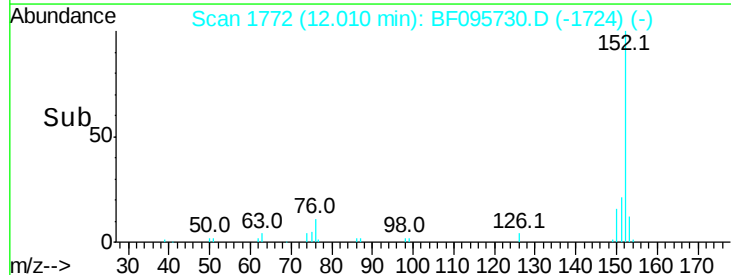
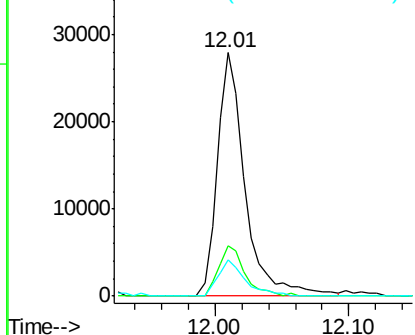


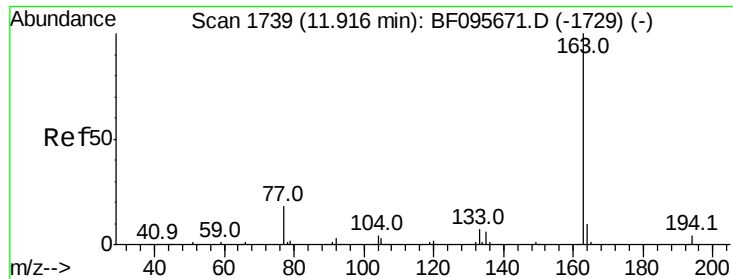
#48
Acenaphthylene
Concen: 3.30 ng
RT: 12.01 min Scan# 1772
Delta R.T. -0.02 min
Lab File: BF095730.D
Acq: 7 Jun 2017 2:23

Tgt Ion:152 Resp: 40705
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2
153 14.8 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: 3.27 ng

RT: 11.89 min Scan# 1751

Delta R.T. -0.03 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

Instrument :

BNA_F

ClientSampleId :

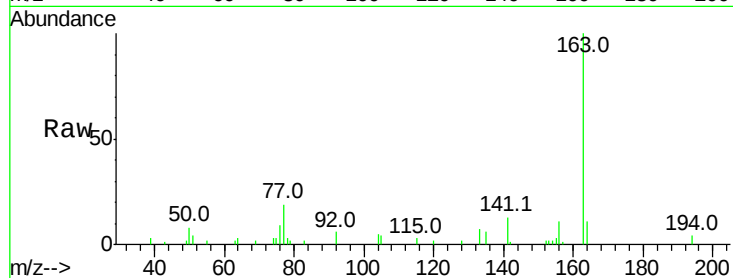
Tot Ion:163 Resp: 27876

Ion Ratio Lower Upper

163 100

194 4.3 2.6 4.0#

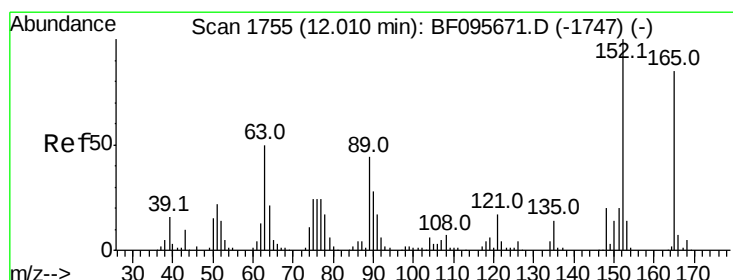
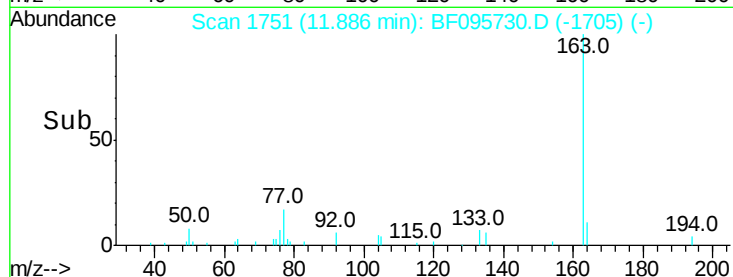
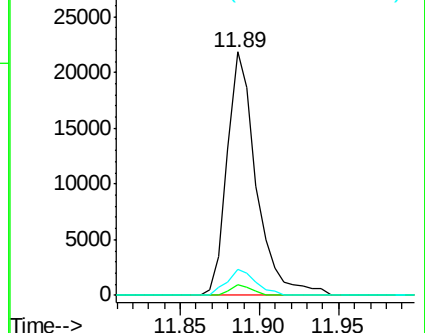
164 10.6 8.4 12.6



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



#50

2,6-Dinitrotoluene

Concen: 7.56 ng

RT: 12.23 min Scan# 1810

Delta R.T. 0.22 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

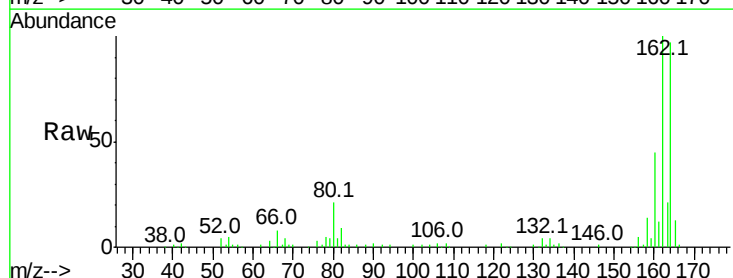
Tgt Ion:165 Resp: 14044

Ion Ratio Lower Upper

165 100

63 0.0 34.3 51.5#

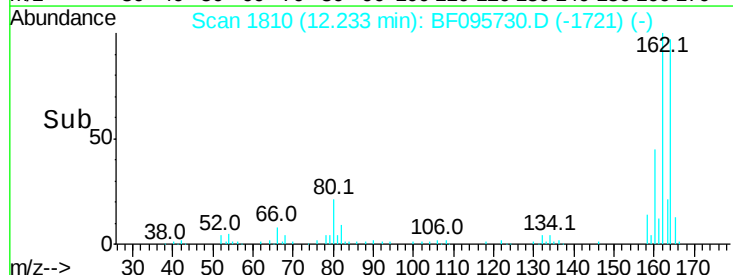
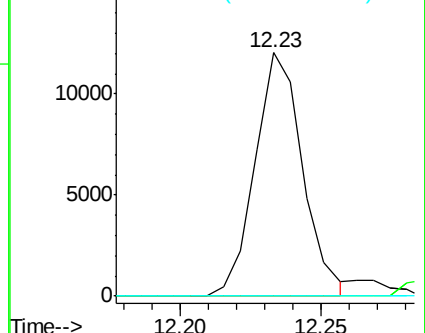
89 0.0 37.1 55.7#

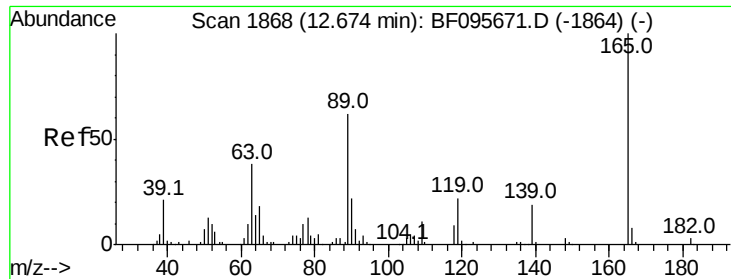


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

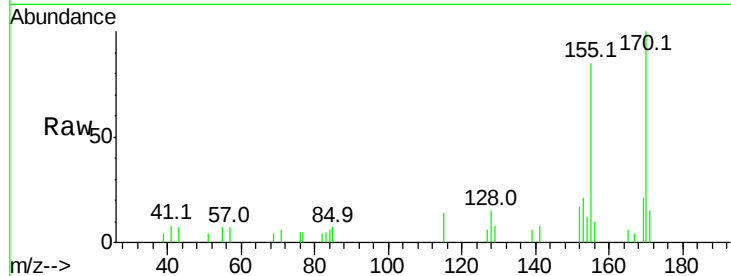




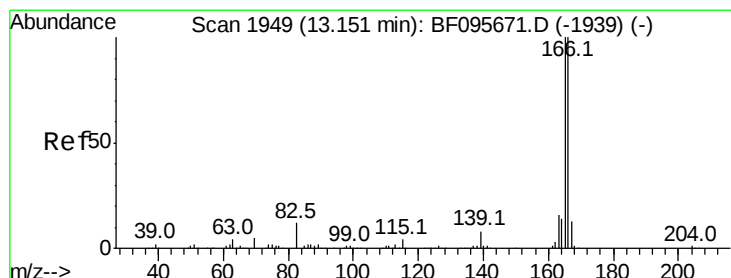
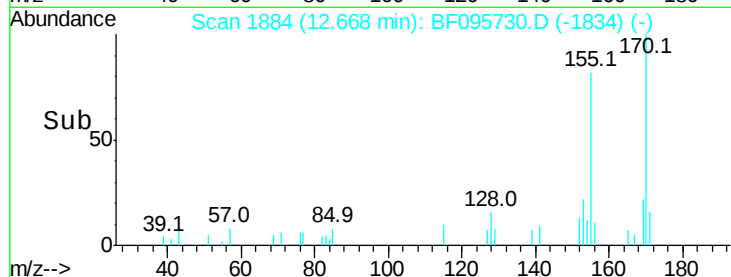
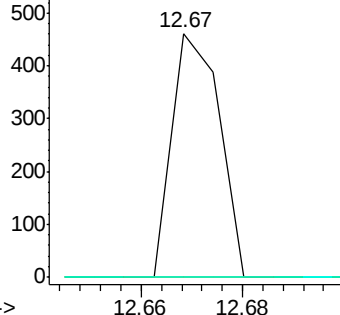
#55
4-Nitrophenol
Concen: 4.85 ng
RT: 12.67 min Scan# 1884
Delta R.T. -0.01 min
Lab File: BF095730.D
Acq: 7 Jun 2017 2:23

Instrument :
BNA_F
ClientSampleId :

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

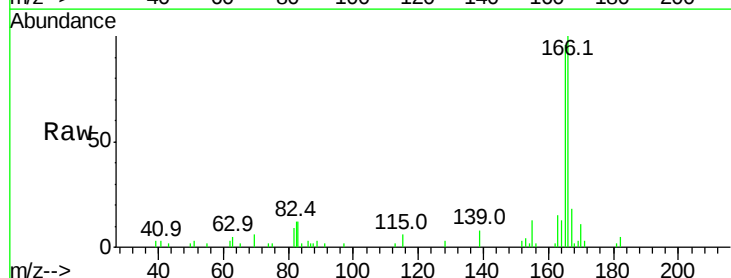


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): E

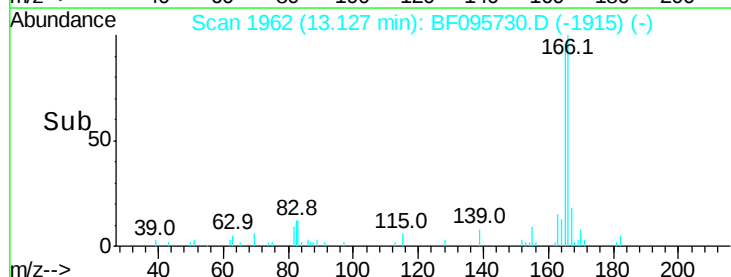
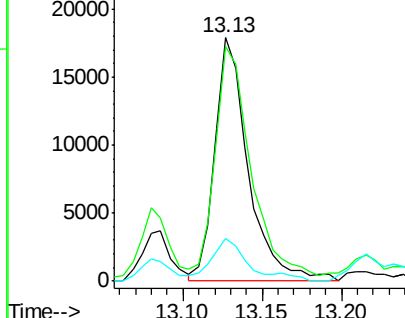


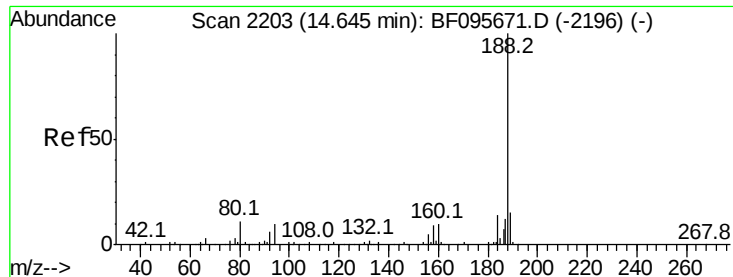
#57
Fluorene
Concen: 3.00 ng
RT: 13.13 min Scan# 1962
Delta R.T. -0.02 min
Lab File: BF095730.D
Acq: 7 Jun 2017 2:23

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.4	78.8	118.2
167	17.7	10.6	16.0#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

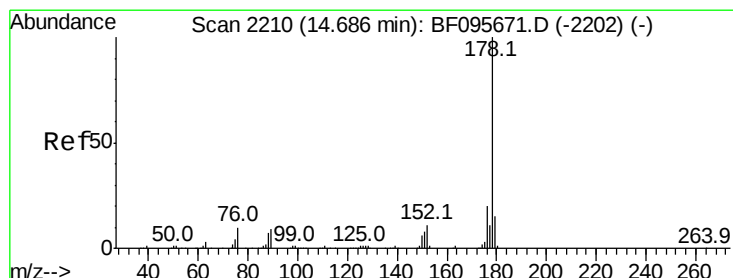
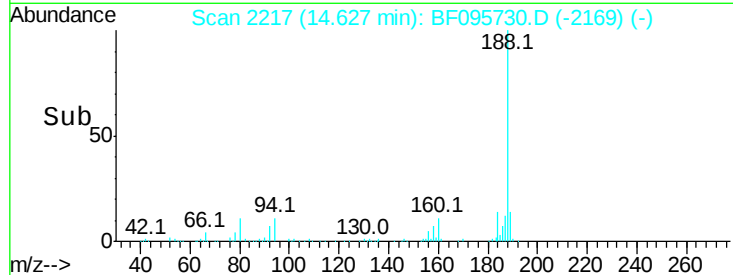
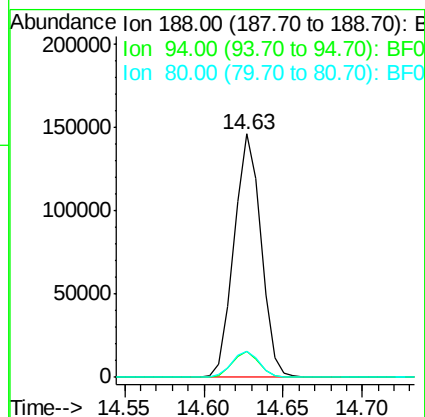
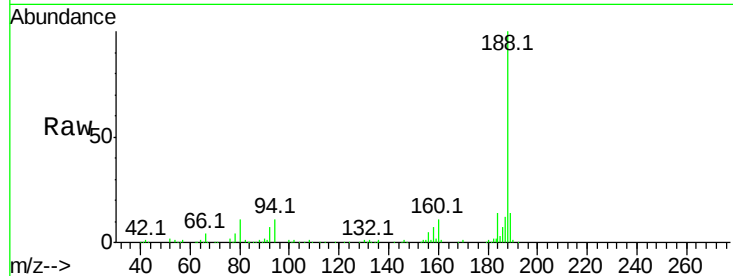




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.63 min Scan# 2217
 Delta R.T. -0.02 min
 Lab File: BF095730.D
 Acq: 7 Jun 2017 2:23

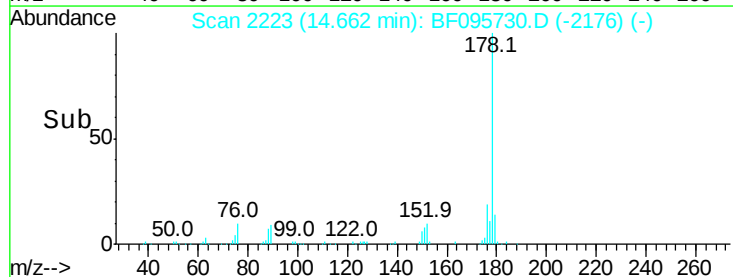
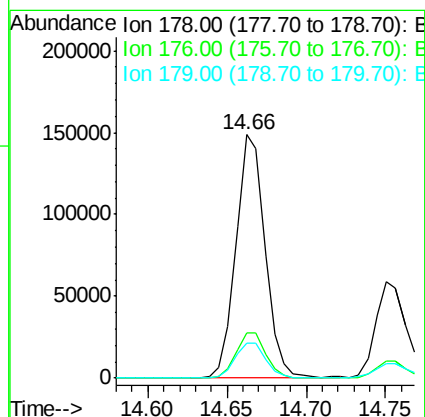
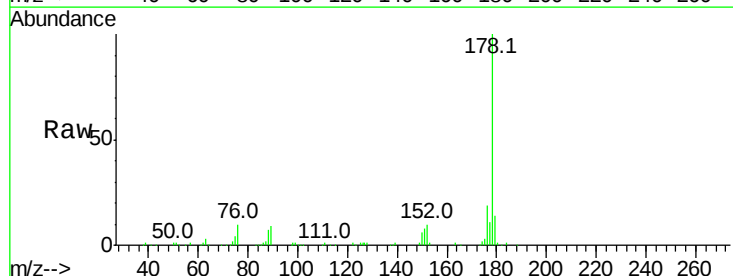
Instrument :
 BNA_F
 ClientSampleId :

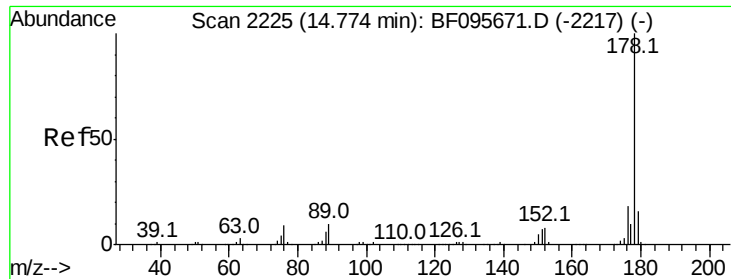
Tot Ion:188 Resp: 171337
 Ion Ratio Lower Upper
 188 100
 94 10.9 9.4 14.2
 80 10.8 10.2 15.2



#70
 Phenanthrene
 Concen: 19.19 ng
 RT: 14.66 min Scan# 2223
 Delta R.T. -0.02 min
 Lab File: BF095730.D
 Acq: 7 Jun 2017 2:23

Tgt Ion:178 Resp: 189687
 Ion Ratio Lower Upper
 178 100
 176 18.5 16.2 24.4
 179 14.3 12.6 19.0

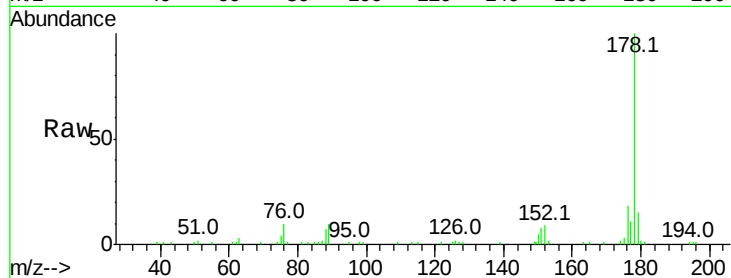




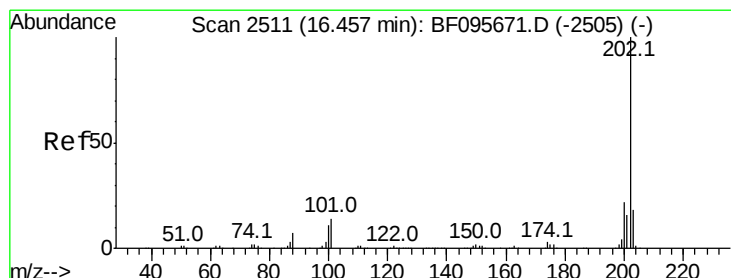
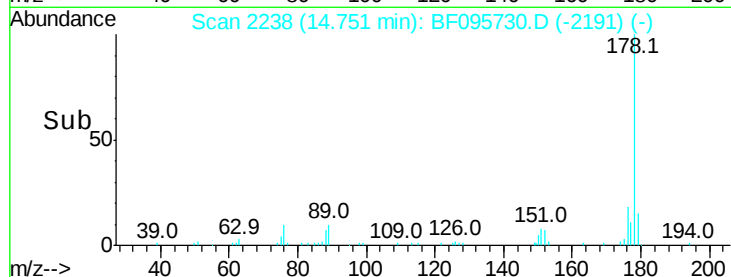
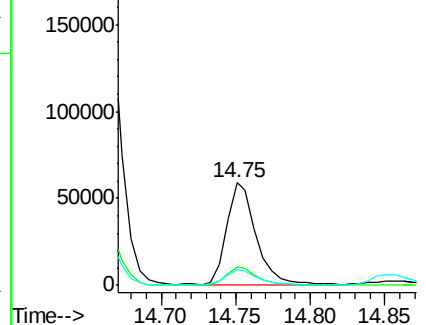
#71
 Anthracene
 Concen: 7.84 ng
 RT: 14.75 min Scan# 2238
 Delta R.T. -0.02 min
 Lab File: BF095730.D
 Acq: 7 Jun 2017 2:23

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 80926
 Ion Ratio Lower Upper
 178 100
 176 17.8 15.8 23.8
 179 15.5 12.7 19.1

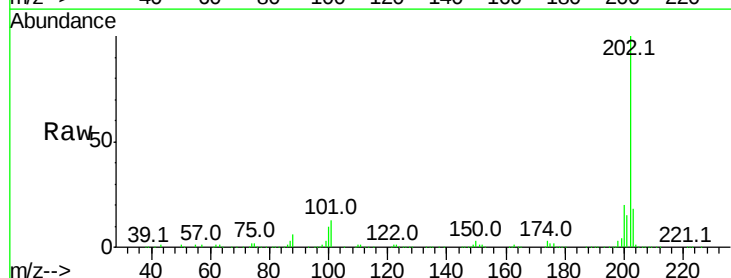


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

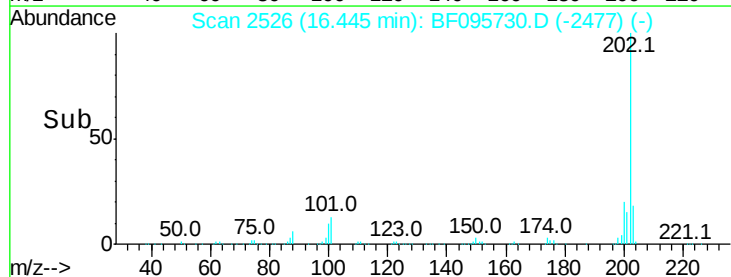
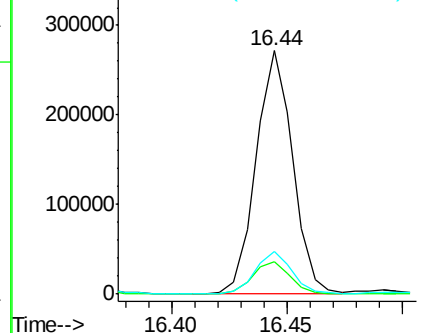


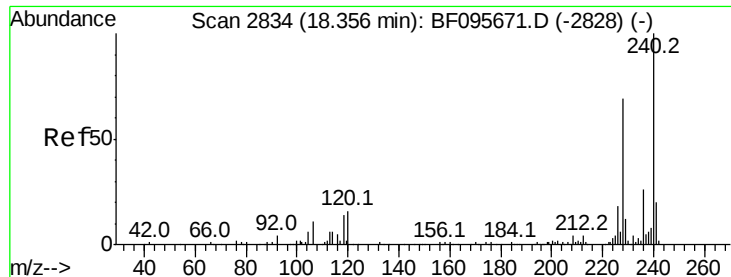
#74
 Fluoranthene
 Concen: 30.52 ng
 RT: 16.44 min Scan# 2526
 Delta R.T. -0.01 min
 Lab File: BF095730.D
 Acq: 7 Jun 2017 2:23

Tgt Ion:202 Resp: 298600
 Ion Ratio Lower Upper
 202 100
 101 13.4 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: 18.34 min Scan# 2849

Delta R.T. -0.01 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

Instrument :

BNA_F

ClientSampleId :

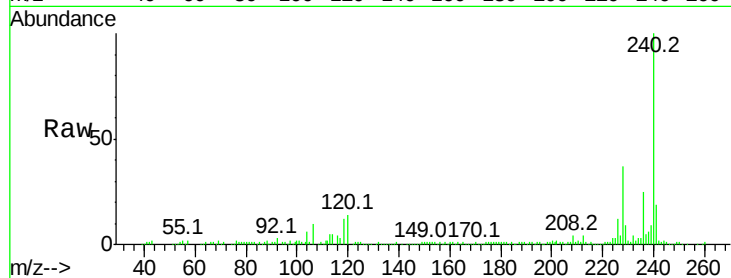
Tot Ion:240 Resp: 140069

Ion Ratio Lower Upper

240 100

120 14.3 5.8 8.8#

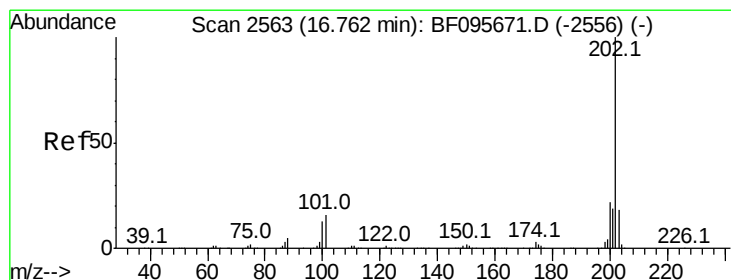
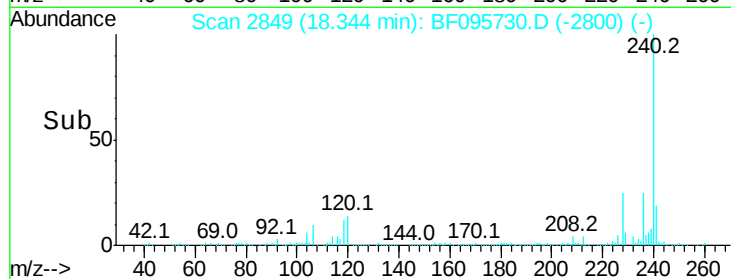
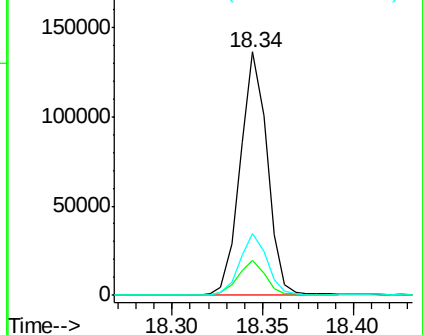
236 25.2 20.5 30.7



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: 35.11 ng

RT: 16.75 min Scan# 2578

Delta R.T. -0.01 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

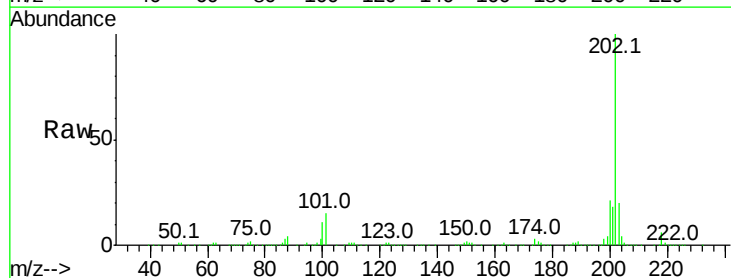
Tgt Ion:202 Resp: 366921

Ion Ratio Lower Upper

202 100

200 21.2 17.6 26.4

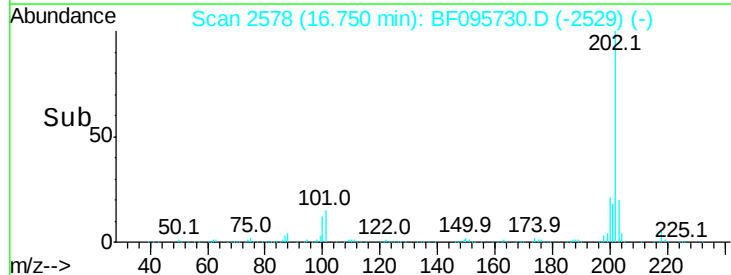
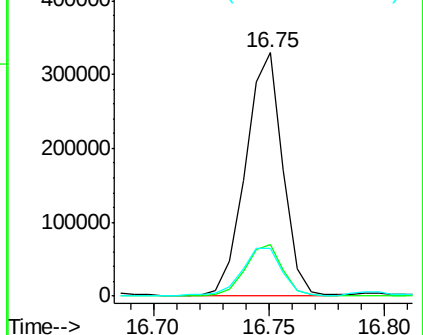
203 19.9 14.4 21.6

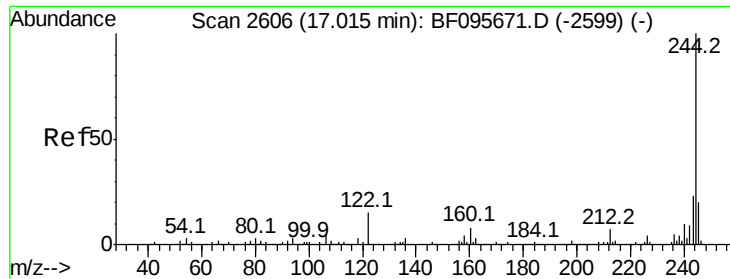


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

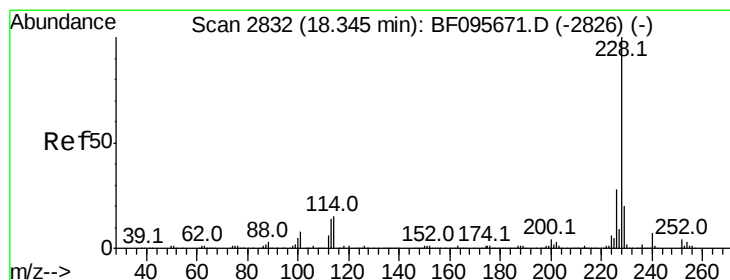
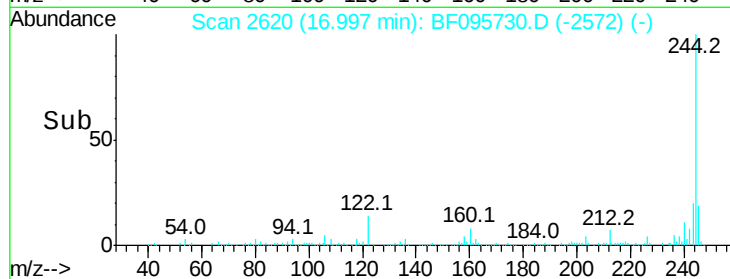
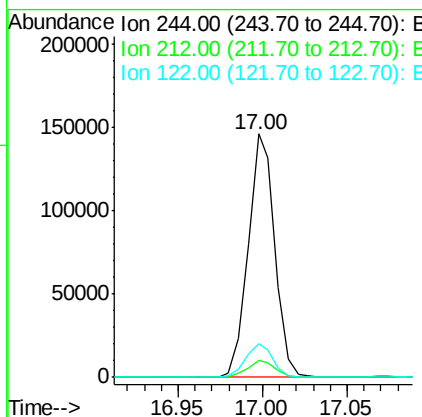
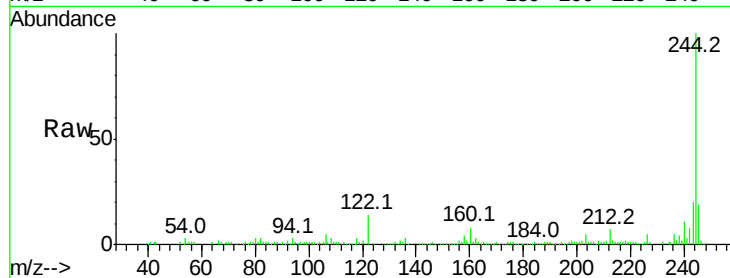




#78
 Terphenyl-d14
 Concen: 28.34 ng
 RT: 17.00 min Scan# 2620
 Delta R.T. -0.02 min
 Lab File: BF095730.D
 Acq: 7 Jun 2017 2:23

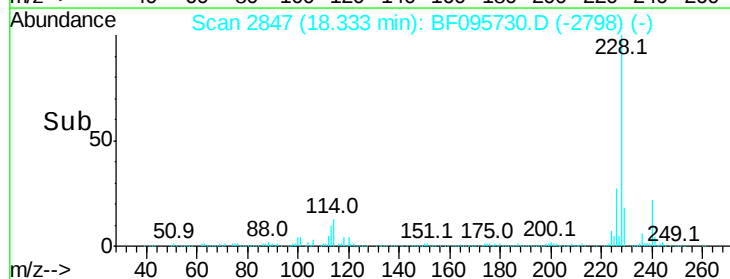
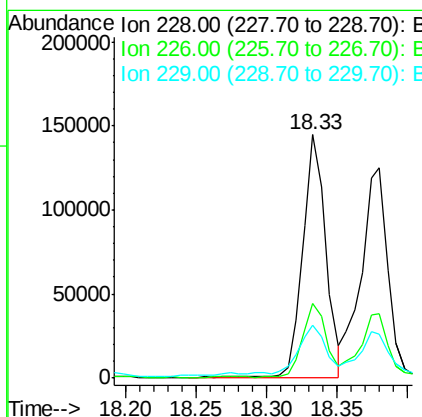
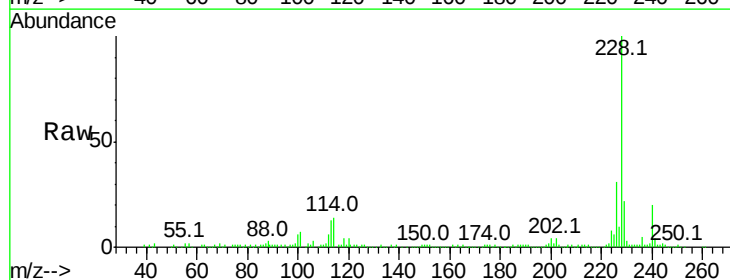
Instrument :
 BNA_F
 ClientSampleId :

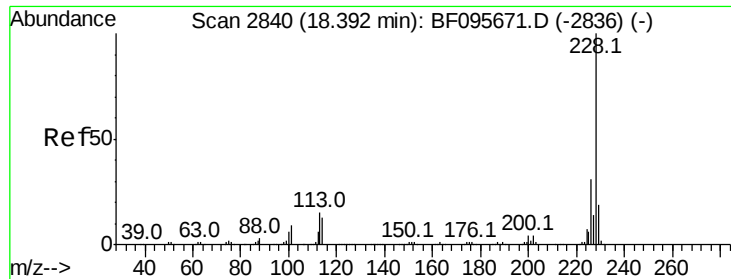
Tot Ion:244 Resp: 159971
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.0 9.0
 122 14.0 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 20.04 ng
 RT: 18.33 min Scan# 2847
 Delta R.T. -0.01 min
 Lab File: BF095730.D
 Acq: 7 Jun 2017 2:23

Tgt Ion:228 Resp: 163167
 Ion Ratio Lower Upper
 228 100
 226 30.9 22.6 33.8
 229 21.8 16.3 24.5





#82

Chrysene

Concen: 19.84 ng

RT: 18.38 min Scan# 2855

Delta R.T. -0.01 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

Instrument :

BNA_F

ClientSampleId :

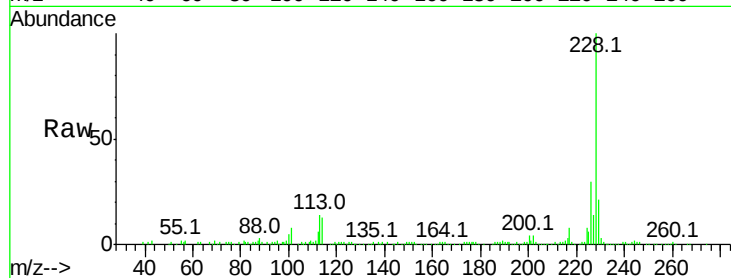
Tot Ion:228 Resp: 161493

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

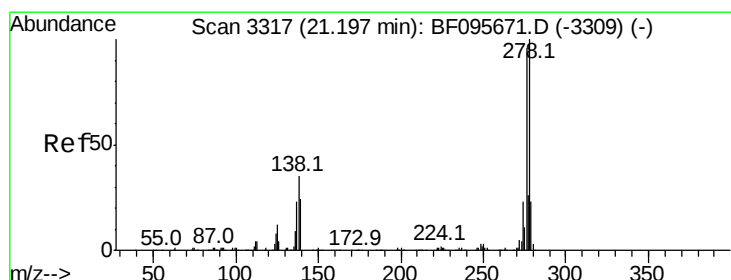
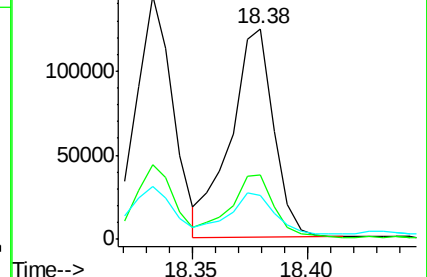
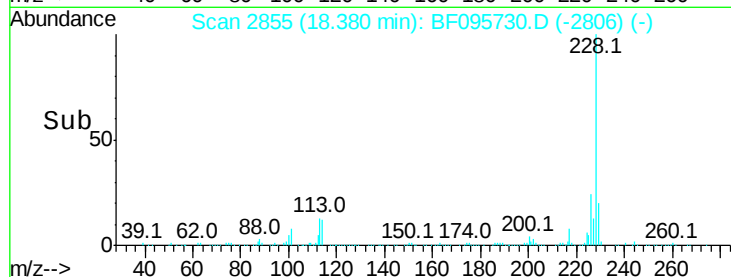
229 21.0 15.8 23.6



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: 6.82 ng

RT: 21.20 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

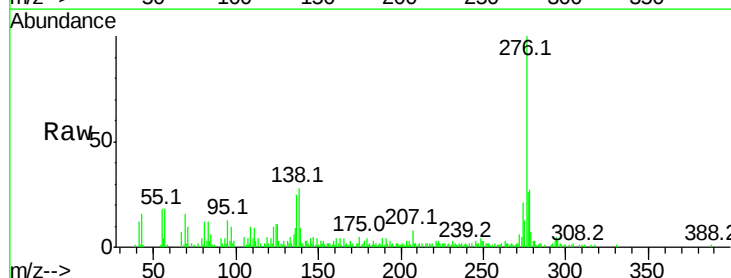
Tgt Ion:276 Resp: 47514

Ion Ratio Lower Upper

276 100

138 31.0 27.8 41.6

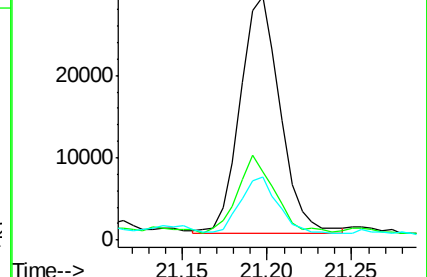
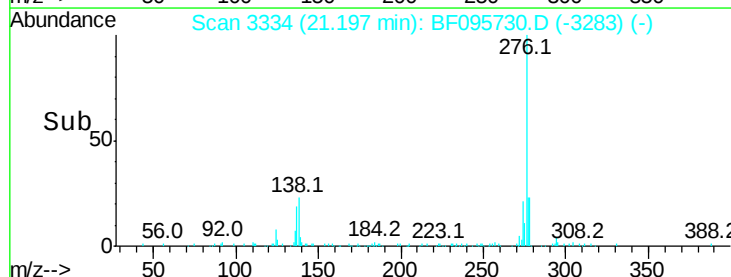
277 22.8 20.2 30.4

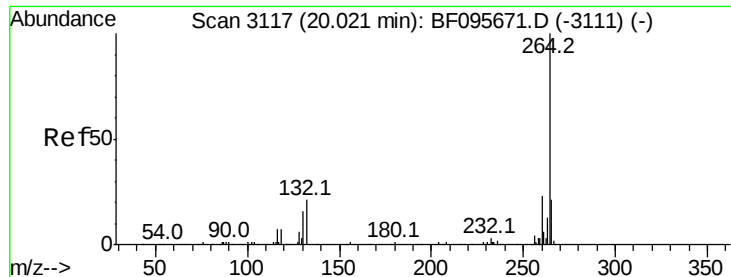


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

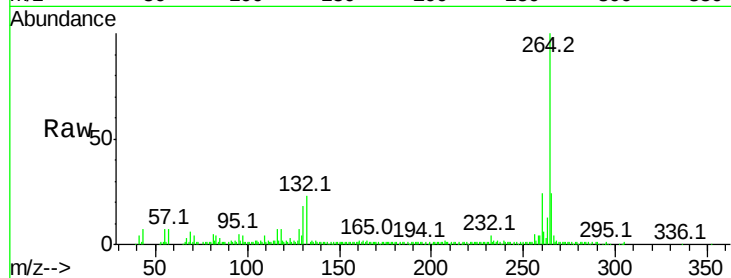




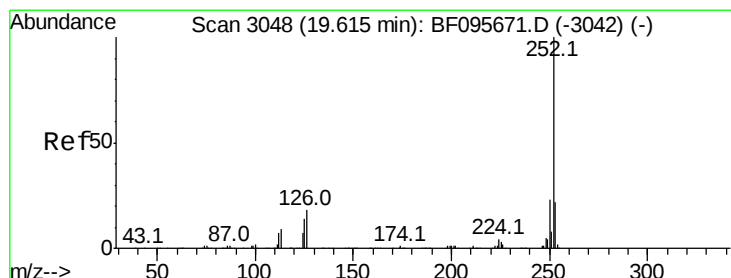
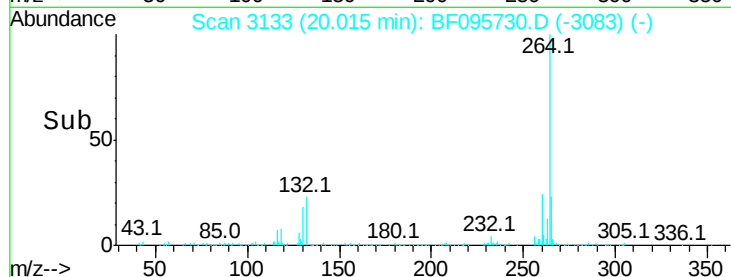
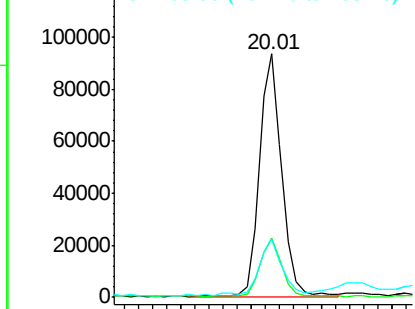
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.01 min Scan# 3133
Delta R.T. -0.01 min
Lab File: BF095730.D
Acq: 7 Jun 2017 2:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 105342
Ion Ratio Lower Upper
264 100
260 24.5 19.5 29.3
265 24.0 17.2 25.8

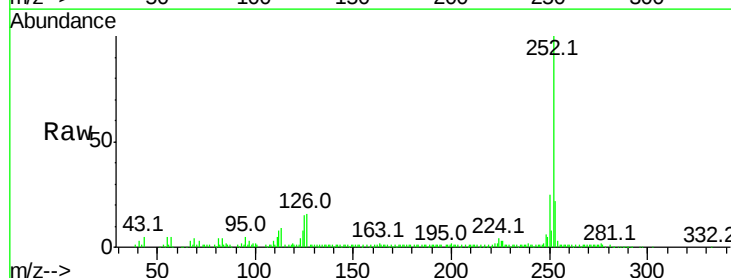


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

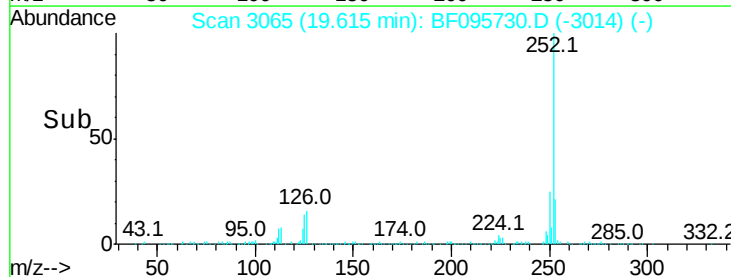
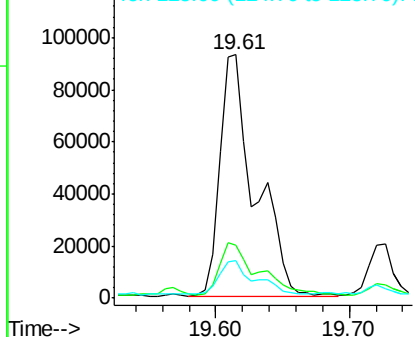


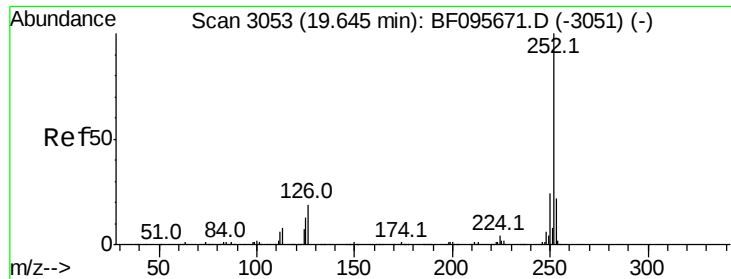
#87
Benzo(b)fluoranthene
Concen: 25.88 ng
RT: 19.61 min Scan# 3065
Delta R.T. -0.00 min
Lab File: BF095730.D
Acq: 7 Jun 2017 2:23

Tgt Ion:252 Resp: 170683
Ion Ratio Lower Upper
252 100
253 21.8 18.1 27.1
125 15.2 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

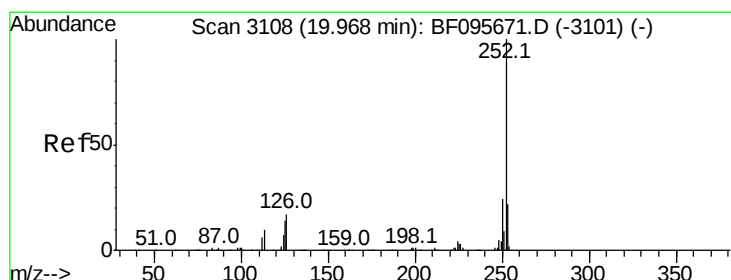
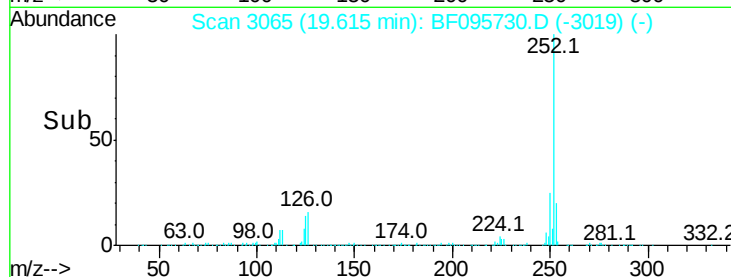
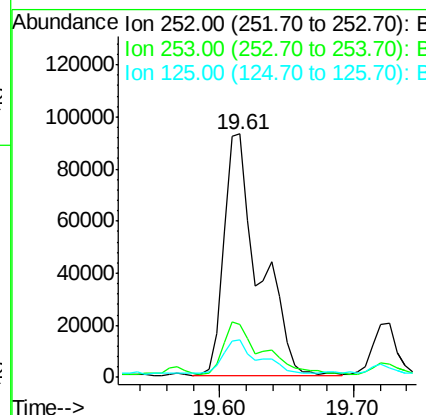
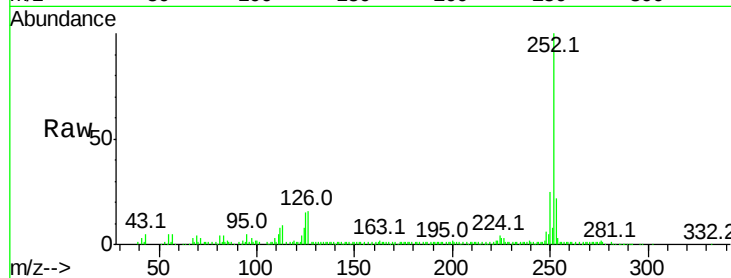




#88
Benzo(k)fluoranthene
Concen: 27.07 ng
RT: 19.61 min Scan# 3065
Delta R.T. -0.03 min
Lab File: BF095730.D
Acq: 7 Jun 2017 2:23

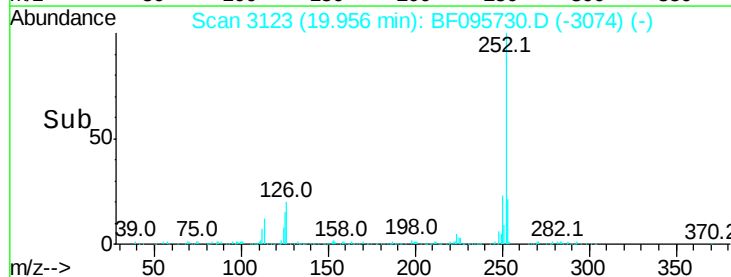
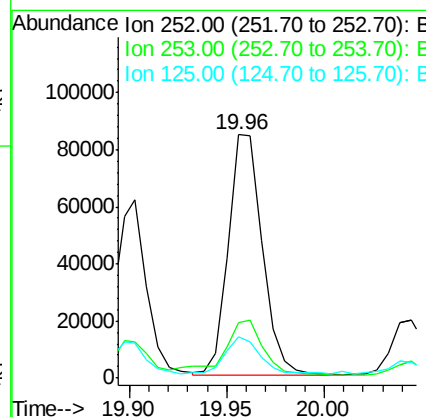
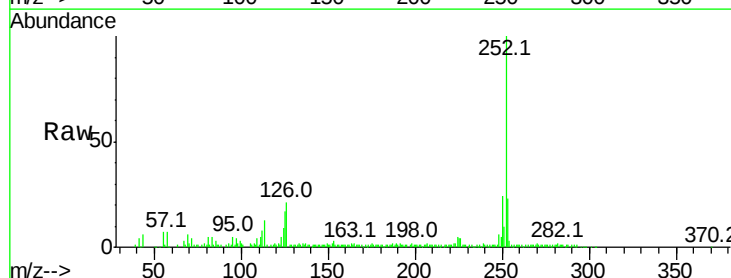
Instrument :
BNA_F
ClientSampleId :

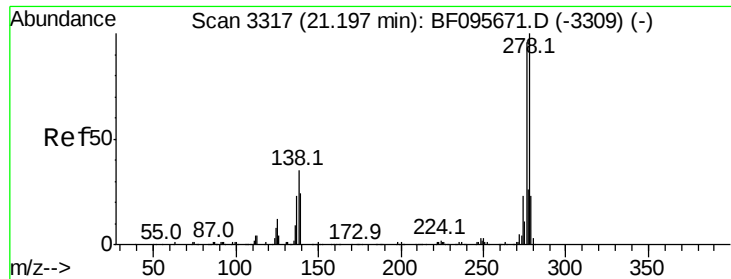
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.4	27.6
125	15.2	13.1	19.7



#89
Benzo(a)pyrene
Concen: 16.99 ng
RT: 19.96 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BF095730.D
Acq: 7 Jun 2017 2:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	16.9	11.0	16.4#





#90

Dibenzo(a,h)anthracene

Concen: 2.99 ng

RT: 21.20 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

Instrument :

BNA_F

ClientSampleId :

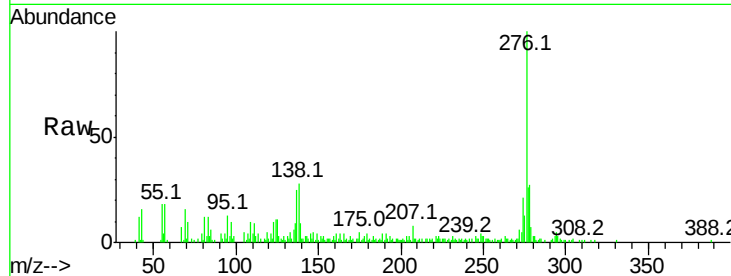
Tot Ion:278 Resp: 15398

Ion Ratio Lower Upper

278 100

139 31.3 16.6 24.8#

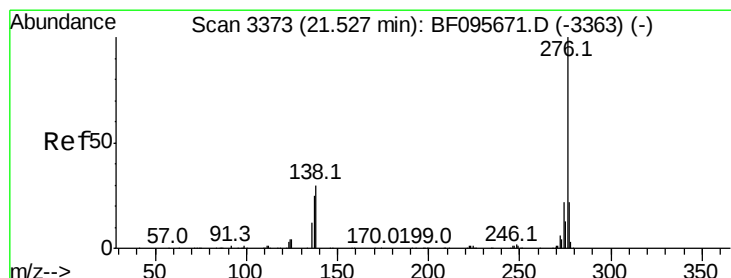
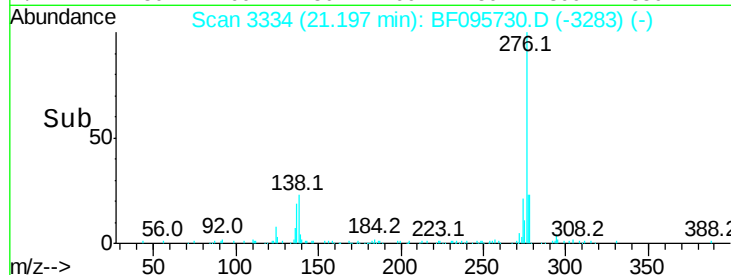
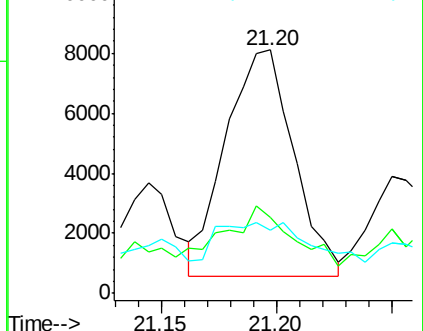
279 25.7 19.3 28.9



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(g,h,i)perylene

Concen: 9.40 ng

RT: 21.53 min Scan# 3391

Delta R.T. 0.01 min

Lab File: BF095730.D

Acq: 7 Jun 2017 2:23

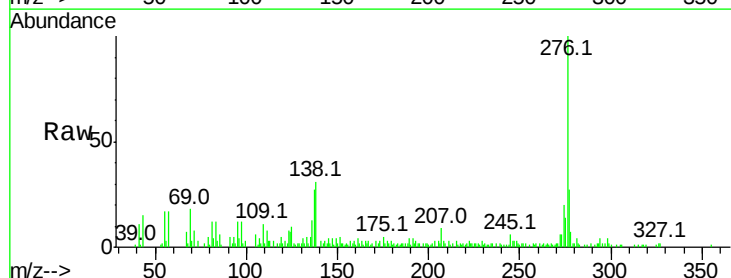
Tgt Ion:276 Resp: 49258

Ion Ratio Lower Upper

276 100

277 26.5 18.6 28.0

138 31.4 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

