

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\  
 Data File : BF095762.D  
 Acq On : 7 Jun 2017 23:47  
 Operator : SJ/MA  
 Sample : I3488-07 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 08 04:09:45 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

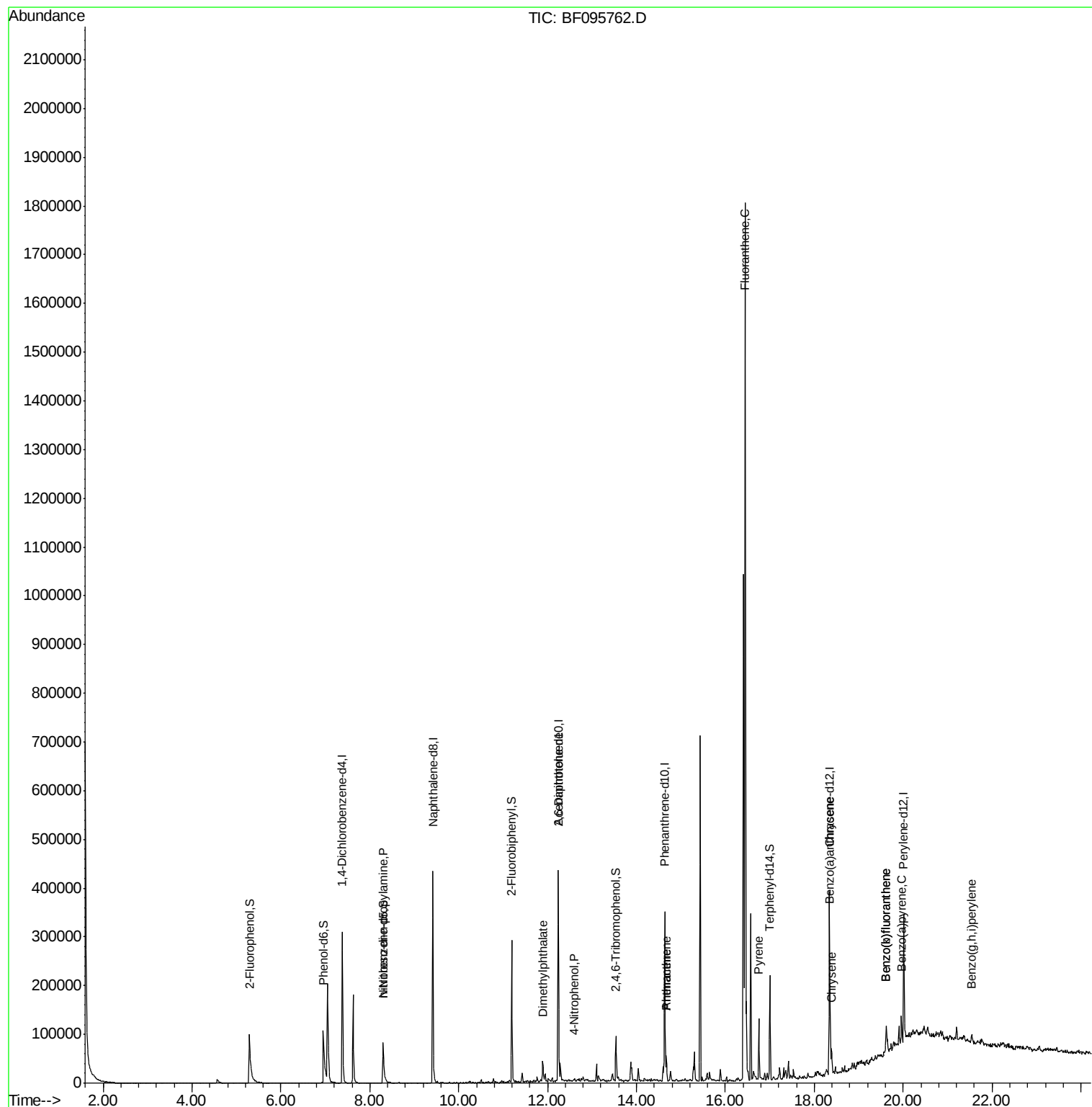
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.38  | 152  | 74884    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8             | 9.42  | 136  | 286853   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10           | 12.24 | 164  | 114362   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10           | 14.63 | 188  | 169605   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12               | 18.34 | 240  | 140956   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12               | 20.02 | 264  | 99258    | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.29  | 112  | 97162    | 20.68 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.95  | 99   | 112688   | 20.03 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.30  | 82   | 62802    | 13.60 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 13.54 | 330  | 17610    | 17.40 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 11.19 | 172  | 129679   | 15.78 | ng    | -0.02    |
| 78) Terphenyl-d14              | 17.00 | 244  | 78761    | 13.87 | ng    | -0.01    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 8.30  | 70   | 7143     | 2.00  | ng    | # 72     |
| 49) Dimethylphthalate          | 11.89 | 163  | 23535    | 2.71  | ng    | 96       |
| 50) 2,6-Dinitrotoluene         | 12.24 | 165  | 14966    | 7.90  | ng    | # 31     |
| 55) 4-Nitrophenol              | 12.59 | 139  | 982      | 5.35  | ng    | # 25     |
| 70) Phenanthrene               | 14.67 | 178  | 33950    | 3.47  | ng    | 94       |
| 71) Anthracene                 | 14.67 | 178  | 33950    | 3.32  | ng    | 95       |
| 74) Fluoranthene               | 16.45 | 202  | 56926    | 5.88  | ng    | 81       |
| 77) Pyrene                     | 16.75 | 202  | 53915    | 5.13  | ng    | # 94     |
| 80) Benzo(a)anthracene         | 18.33 | 228  | 28018    | 3.42  | ng    | 97       |
| 82) Chrysene                   | 18.38 | 228  | 26743    | 3.27  | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 19.62 | 252  | 40459    | 6.51  | ng    | # 95     |
| 88) Benzo(k)fluoranthene       | 19.62 | 252  | 40459    | 6.81  | ng    | 98       |
| 89) Benzo(a)pyrene             | 19.96 | 252  | 20921    | 3.66  | ng    | # 86     |
| 91) Benzo(a,h,i)perylene       | 21.54 | 276  | 10838    | 2.19  | ng    | 93       |

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

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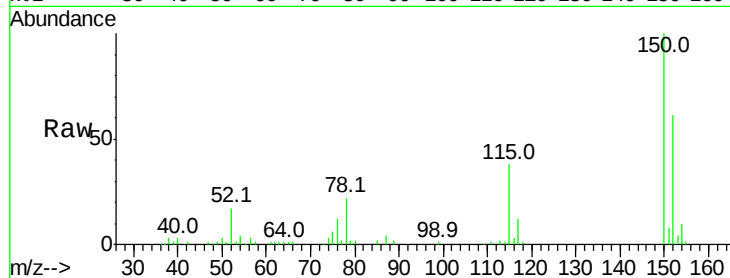


#1

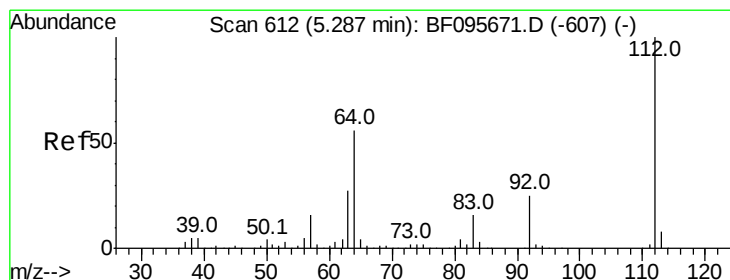
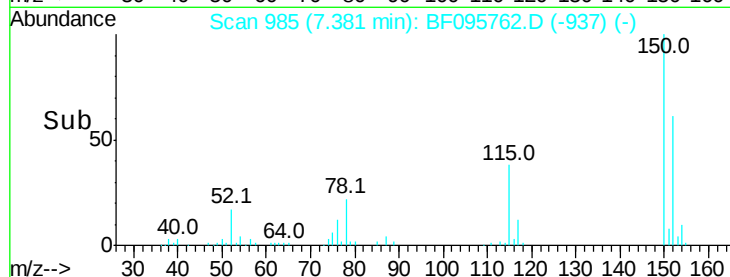
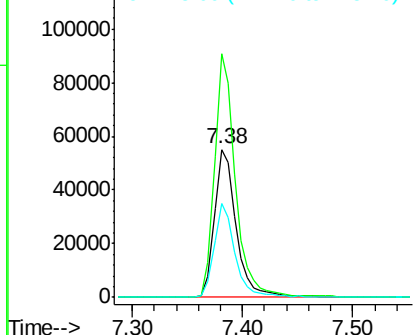
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.38 min Scan# 985  
Delta R.T. -0.02 min  
Lab File: BF095762.D  
Acq: 7 Jun 2017 23:47

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 74884  
Ion Ratio Lower Upper  
152 100  
150 164.3 126.2 189.2  
115 62.9 52.2 78.2



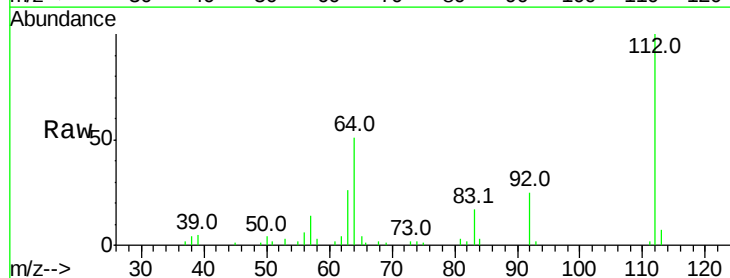
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



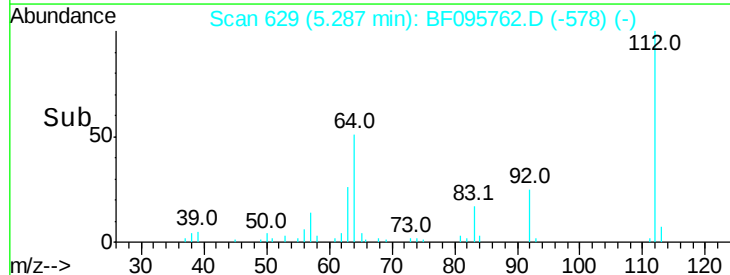
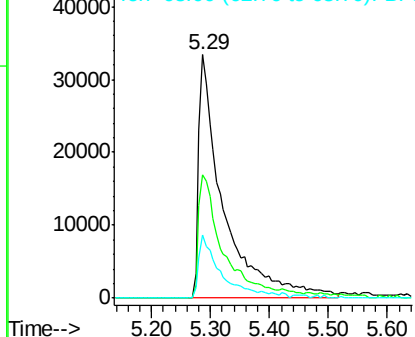
#5

2-Fluorophenol  
Concen: 20.68 ng  
RT: 5.29 min Scan# 629  
Delta R.T. 0.00 min  
Lab File: BF095762.D  
Acq: 7 Jun 2017 23:47

Tgt Ion:112 Resp: 97162  
Ion Ratio Lower Upper  
112 100  
64 50.8 46.0 69.0  
63 25.7 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: 20.03 ng

RT: 6.95 min Scan# 912

Delta R.T. -0.01 min

Lab File: BF095762.D

Acq: 7 Jun 2017 23:47

Instrument :

BNA\_F

ClientSampled :

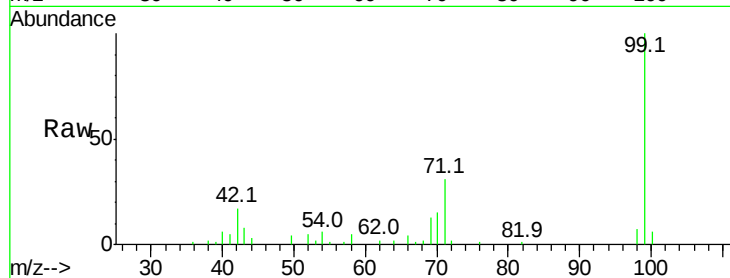
Tot Ion: 99 Resp: 112688

Ion Ratio Lower Upper

99 100

42 17.5 13.5 20.3

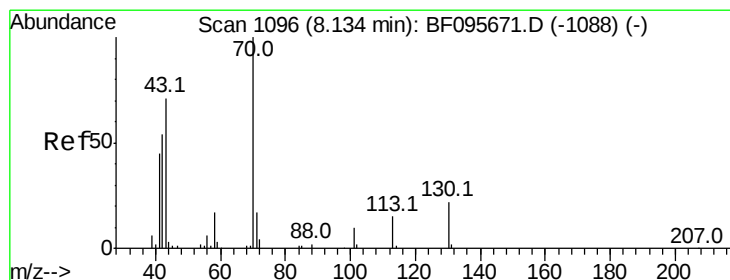
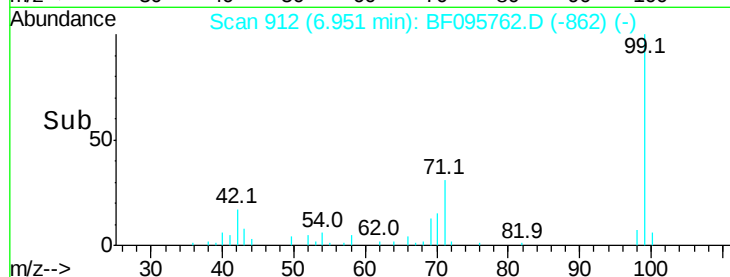
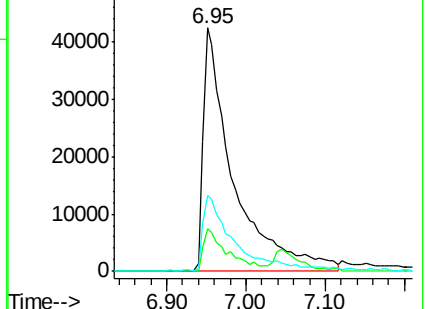
71 31.0 24.5 36.7



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: 2.00 ng

RT: 8.30 min Scan# 1142

Delta R.T. 0.17 min

Lab File: BF095762.D

Acq: 7 Jun 2017 23:47

Tgt Ion: 70 Resp: 7143

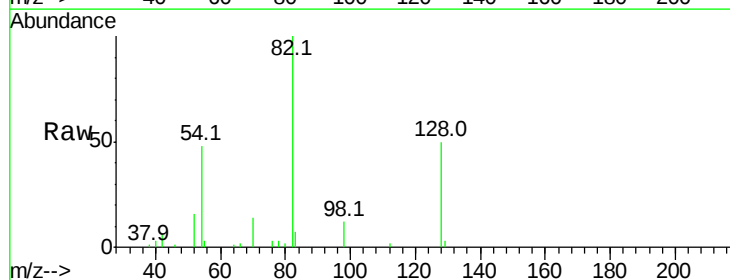
Ion Ratio Lower Upper

70 100

42 41.9 47.2 70.8#

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#

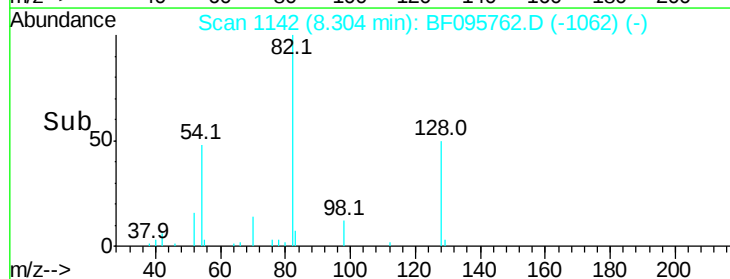
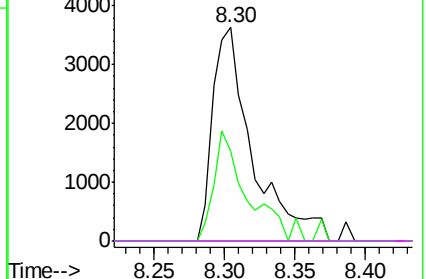


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: BF095762.D

Acq: 7 Jun 2017 23:47

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 286853

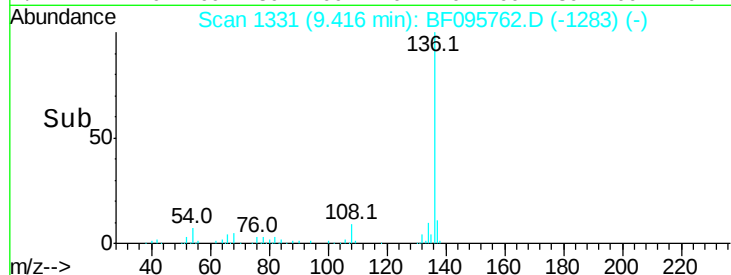
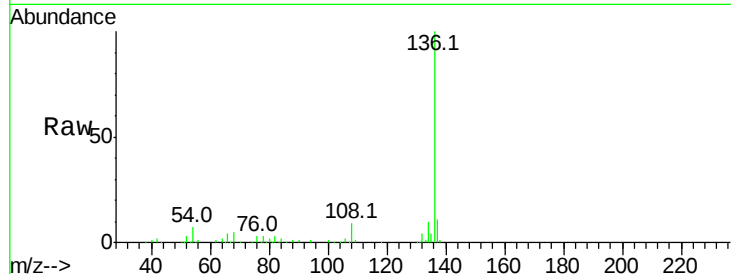
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 6.6 4.9 7.3

68 5.0 4.1 6.1

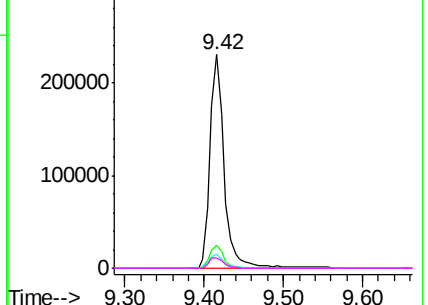


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.60 ng

RT: 8.30 min Scan# 1141

Delta R.T. -0.02 min

Lab File: BF095762.D

Acq: 7 Jun 2017 23:47

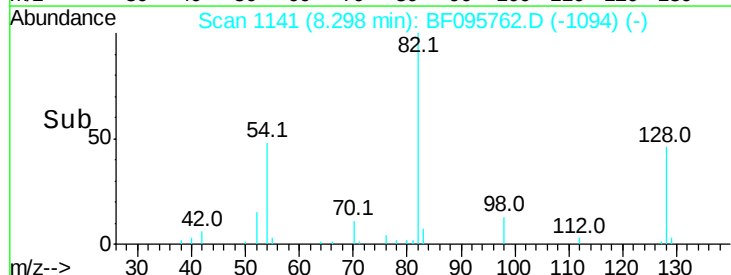
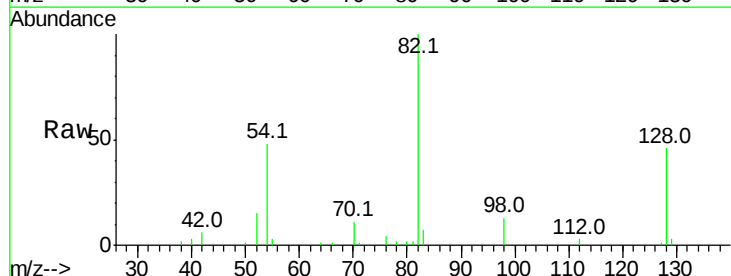
Tgt Ion: 82 Resp: 62802

Ion Ratio Lower Upper

82 100

128 45.7 34.0 51.0

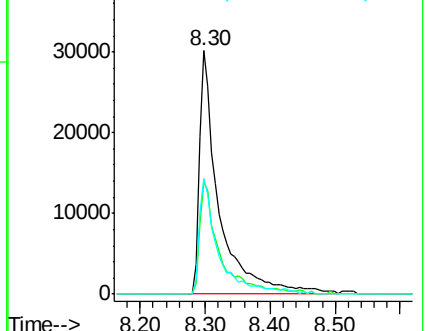
54 47.7 42.2 63.2



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

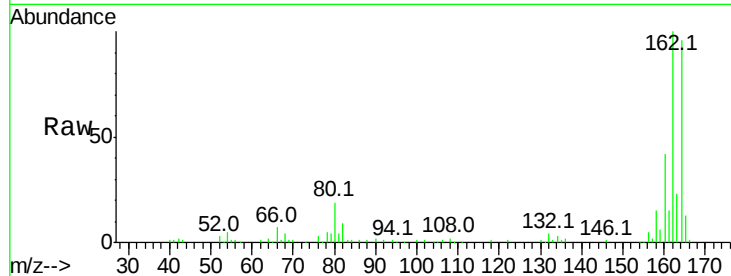




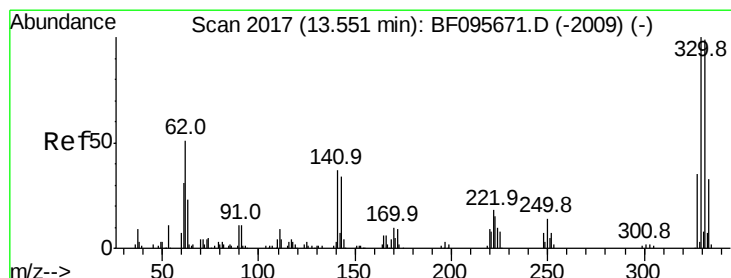
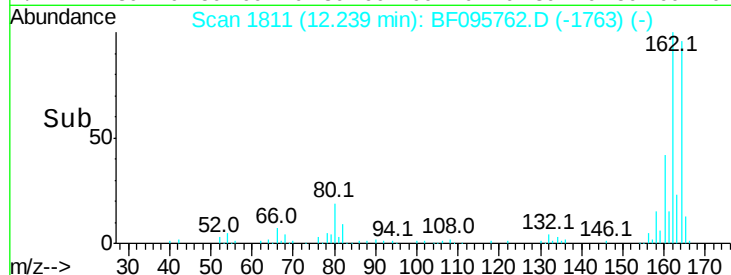
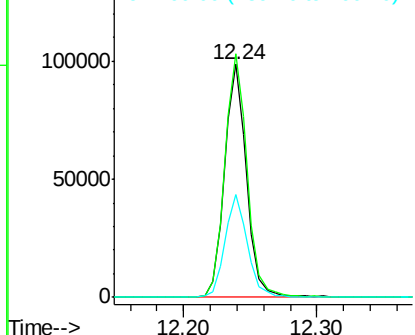
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.24 min Scan# 1811  
 Delta R.T. -0.02 min  
 Lab File: BF095762.D  
 Acq: 7 Jun 2017 23:47

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 114362  
 Ion Ratio Lower Upper  
 164 100  
 162 104.6 82.6 123.8  
 160 44.4 36.2 54.2

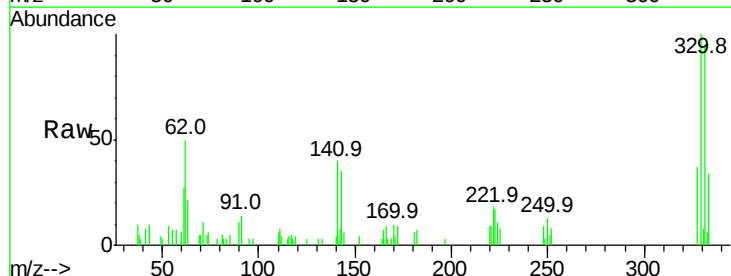


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

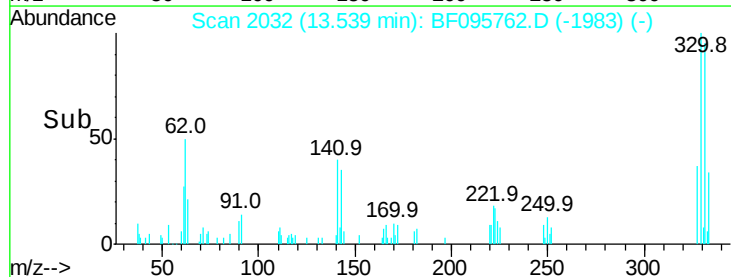
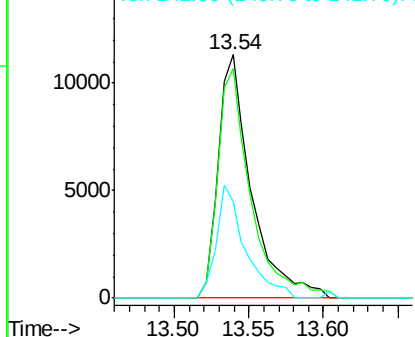


#41  
 2,4,6-Tribromophenol  
 Concen: 17.40 ng  
 RT: 13.54 min Scan# 2032  
 Delta R.T. -0.01 min  
 Lab File: BF095762.D  
 Acq: 7 Jun 2017 23:47

Tgt Ion:330 Resp: 17610  
 Ion Ratio Lower Upper  
 330 100  
 332 94.2 76.6 115.0  
 141 40.3 31.4 47.2



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

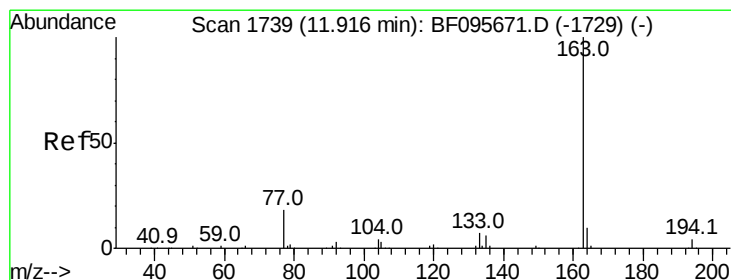
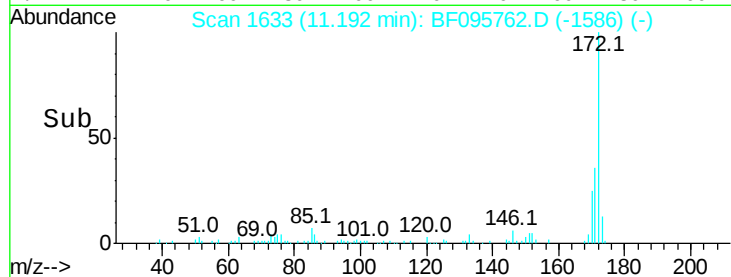
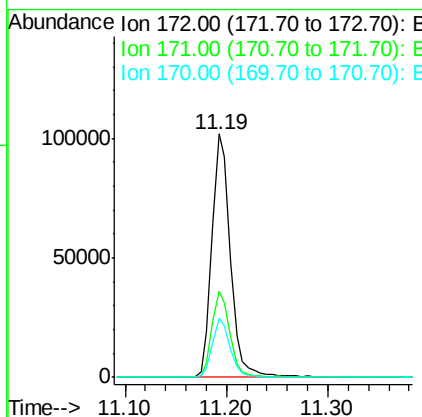
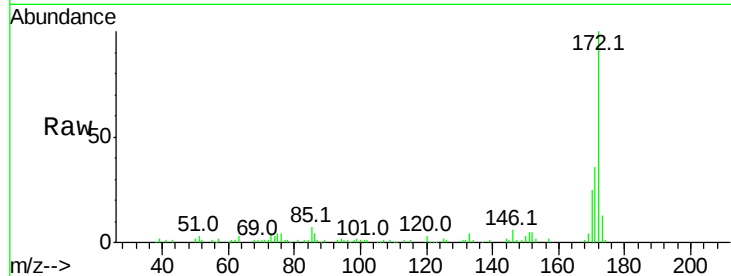




#44  
2-Fluorobiphenyl  
Concen: 15.78 ng  
RT: 11.19 min Scan# 1633  
Delta R.T. -0.02 min  
Lab File: BF095762.D  
Acq: 7 Jun 2017 23:47

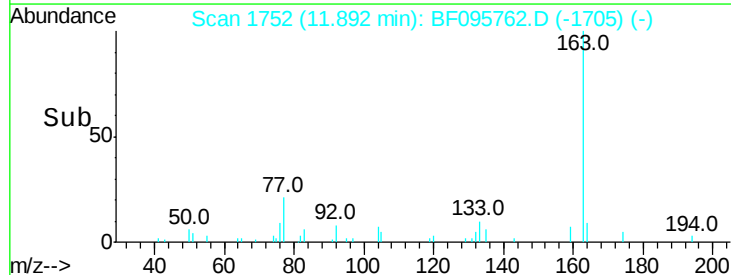
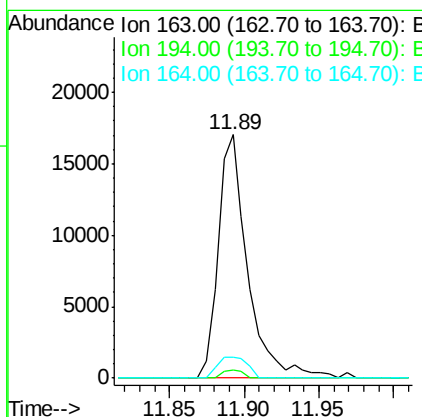
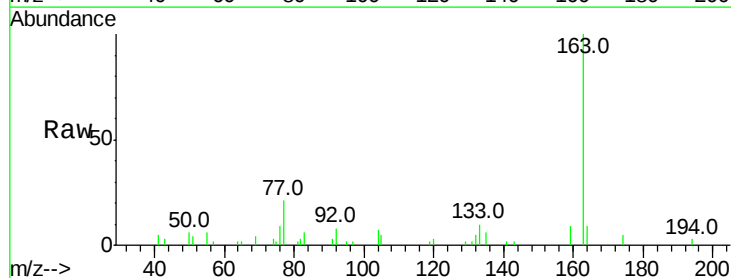
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 129679  
Ion Ratio Lower Upper  
172 100  
171 35.5 29.6 44.4  
170 24.5 19.8 29.8



#49  
Dimethylphthalate  
Concen: 2.71 ng  
RT: 11.89 min Scan# 1752  
Delta R.T. -0.02 min  
Lab File: BF095762.D  
Acq: 7 Jun 2017 23:47

Tgt Ion:163 Resp: 23535  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.6 4.0  
164 8.6 8.4 12.6

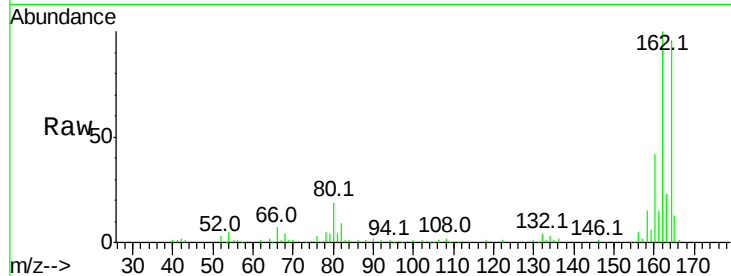




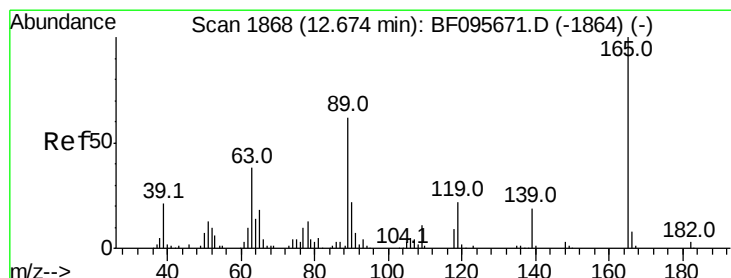
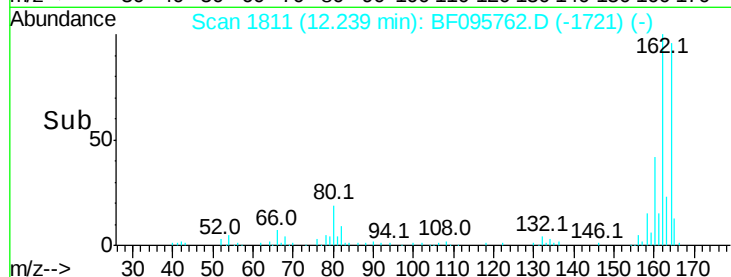
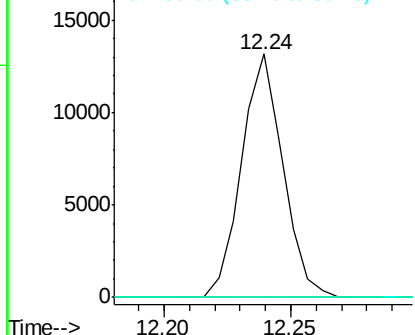
#50  
2,6-Dinitrotoluene  
Concen: 7.90 ng  
RT: 12.24 min Scan# 1811  
Delta R.T. 0.23 min  
Lab File: BF095762.D  
Acq: 7 Jun 2017 23:47

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:165 Resp: 14966  
Ion Ratio Lower Upper  
165 100  
63 0.0 34.3 51.5#  
89 0.0 37.1 55.7#

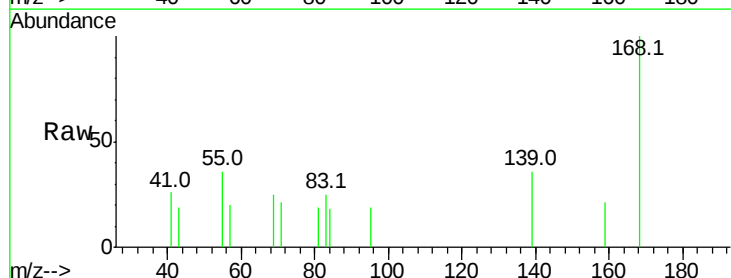


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

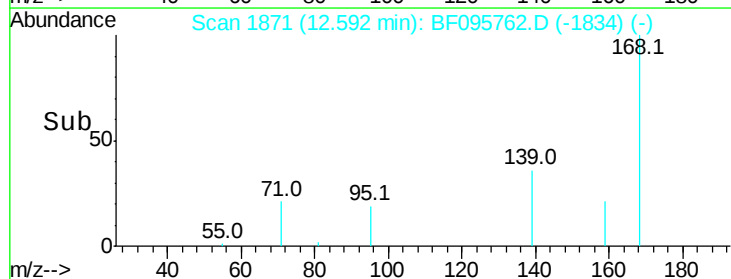
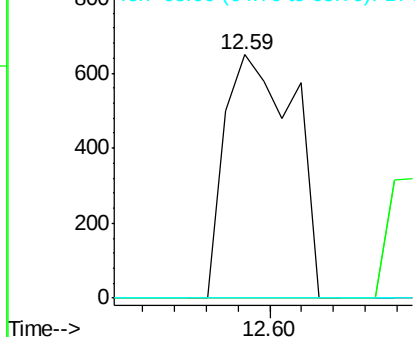


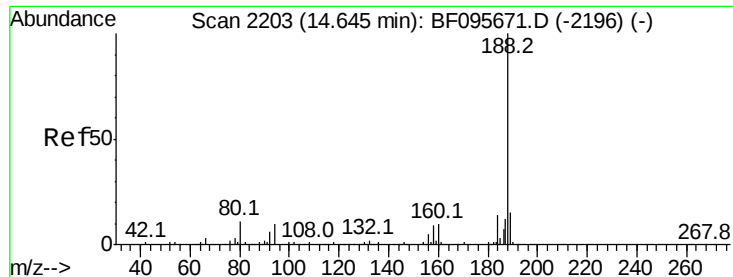
#55  
4-Nitrophenol  
Concen: 5.35 ng  
RT: 12.59 min Scan# 1871  
Delta R.T. -0.08 min  
Lab File: BF095762.D  
Acq: 7 Jun 2017 23:47

Tgt Ion:139 Resp: 982  
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): BF0

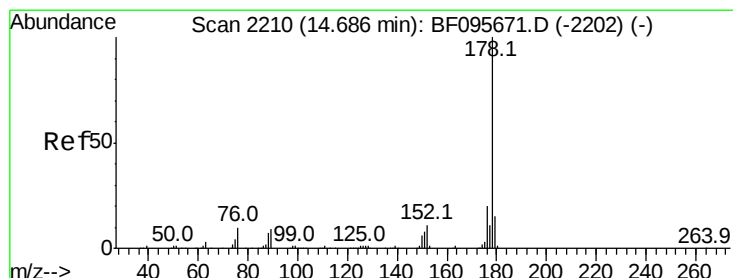
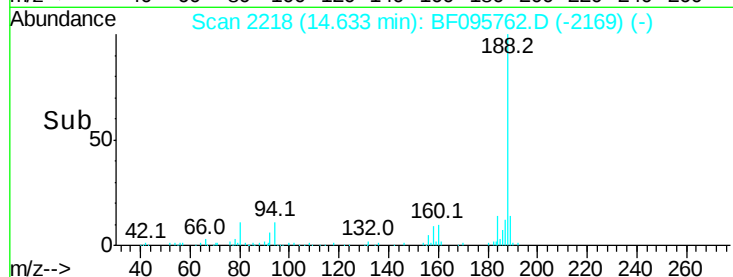
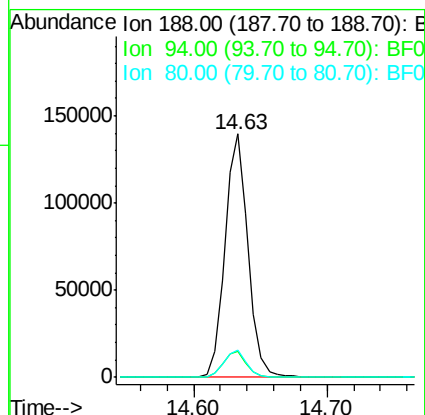
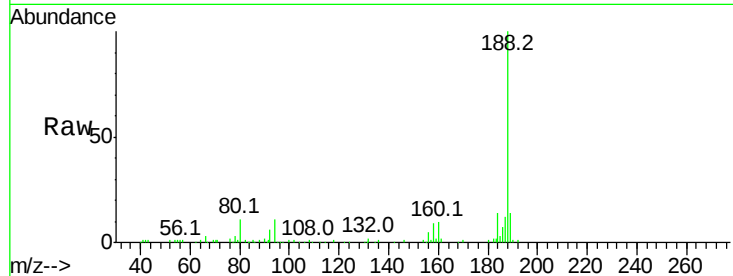




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 14.63 min Scan# 2218  
Delta R.T. -0.01 min  
Lab File: BF095762.D  
Acq: 7 Jun 2017 23:47

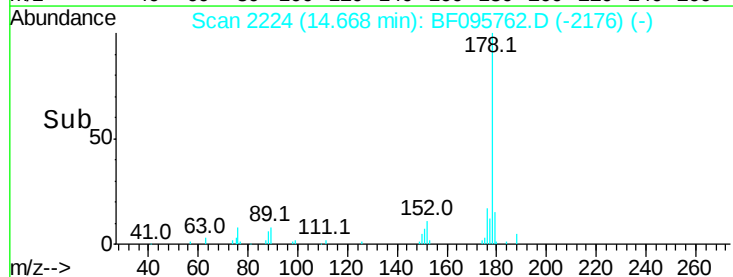
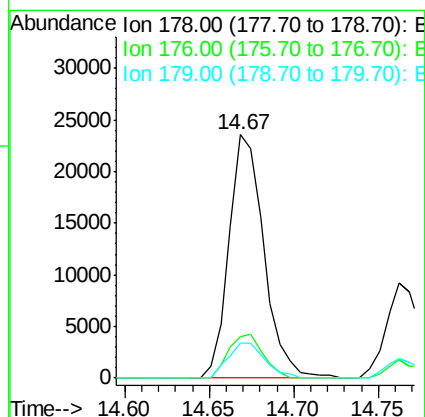
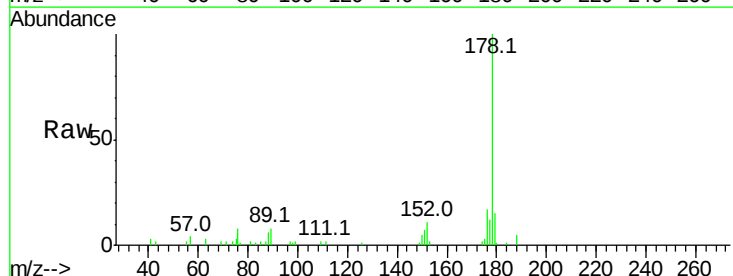
Instrument :  
BNA\_F  
ClientSampleId :

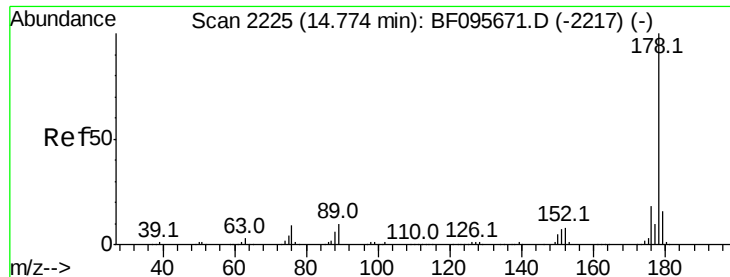
Tot Ion:188 Resp: 169605  
Ion Ratio Lower Upper  
188 100  
94 10.9 9.4 14.2  
80 11.0 10.2 15.2



#70  
Phenanthrene  
Concen: 3.47 ng  
RT: 14.67 min Scan# 2224  
Delta R.T. -0.02 min  
Lab File: BF095762.D  
Acq: 7 Jun 2017 23:47

Tgt Ion:178 Resp: 33950  
Ion Ratio Lower Upper  
178 100  
176 16.7 16.2 24.4  
179 14.6 12.6 19.0

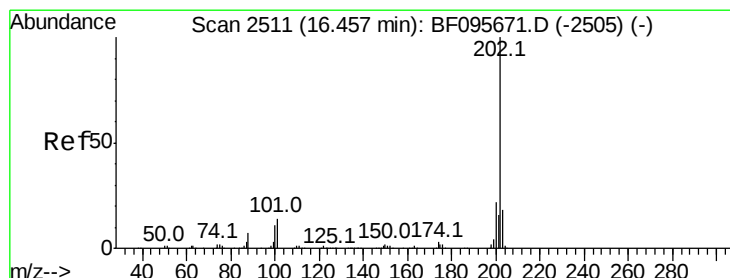
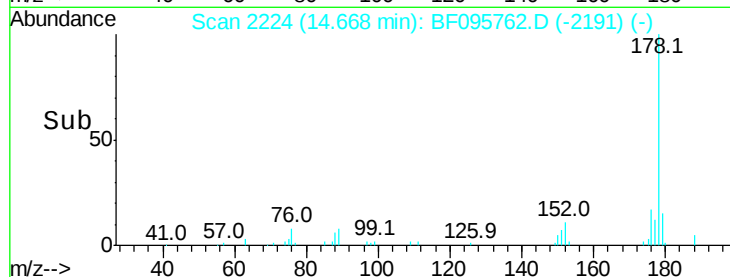
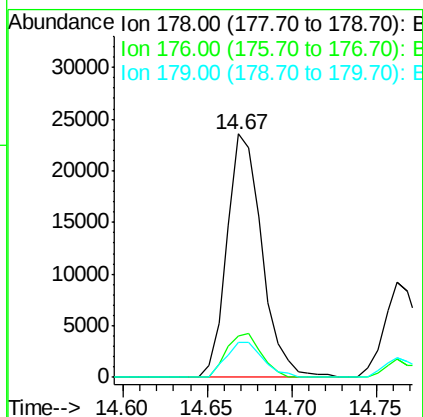
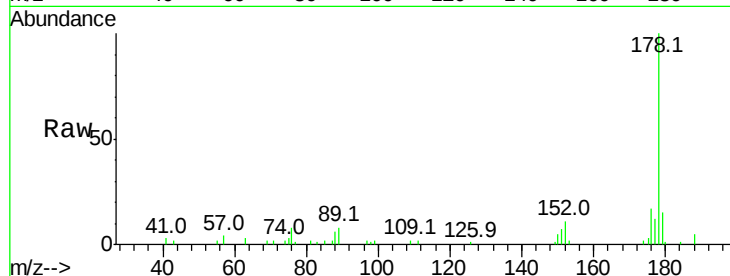




#71  
 Anthracene  
 Concen: 3.32 ng  
 RT: 14.67 min Scan# 2224  
 Delta R.T. -0.11 min  
 Lab File: BF095762.D  
 Acq: 7 Jun 2017 23:47

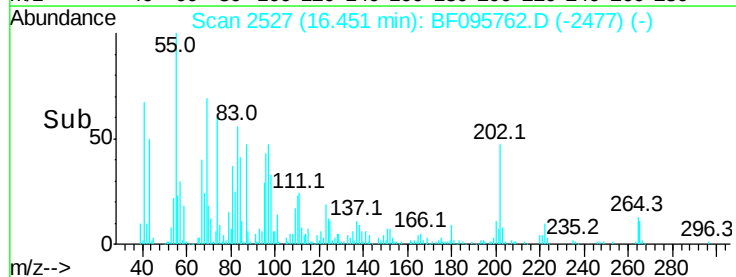
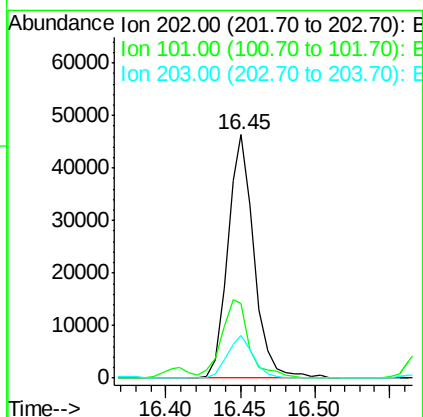
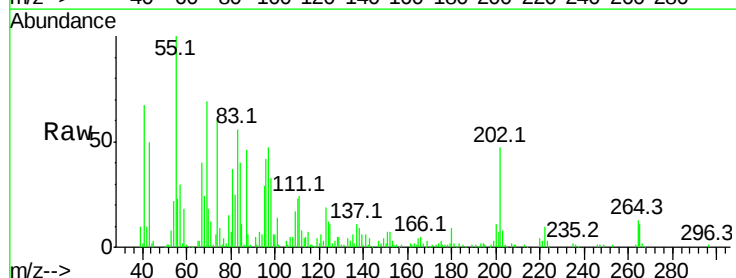
Instrument :  
 BNA\_F  
 ClientSampleId :

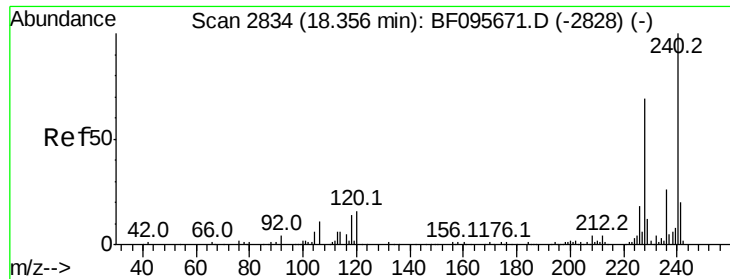
Tot Ion:178 Resp: 33950  
 Ion Ratio Lower Upper  
 178 100  
 176 16.7 15.8 23.8  
 179 14.6 12.7 19.1



#74  
 Fluoranthene  
 Concen: 5.88 ng  
 RT: 16.45 min Scan# 2527  
 Delta R.T. -0.01 min  
 Lab File: BF095762.D  
 Acq: 7 Jun 2017 23:47

Tgt Ion:202 Resp: 56926  
 Ion Ratio Lower Upper  
 202 100  
 101 30.6 0.0 33.2  
 203 17.4 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.34 min Scan# 2849

Delta R.T. -0.01 min

Lab File: BF095762.D

Acq: 7 Jun 2017 23:47

Instrument :

BNA\_F

ClientSampleId :

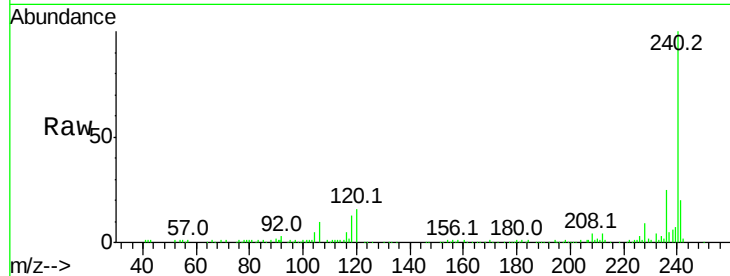
Tot Ion:240 Resp: 140956

Ion Ratio Lower Upper

240 100

120 15.7 5.8 8.8#

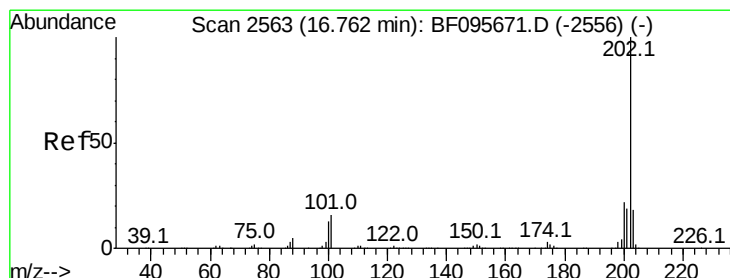
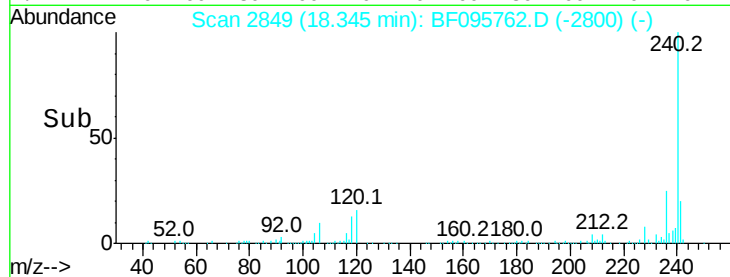
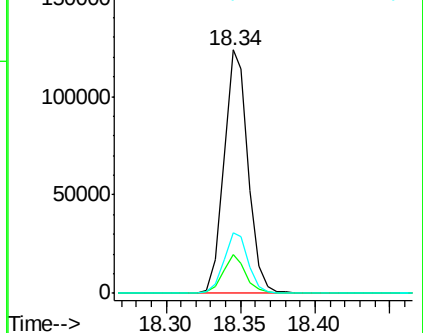
236 24.8 20.5 30.7



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: 5.13 ng

RT: 16.75 min Scan# 2578

Delta R.T. -0.01 min

Lab File: BF095762.D

Acq: 7 Jun 2017 23:47

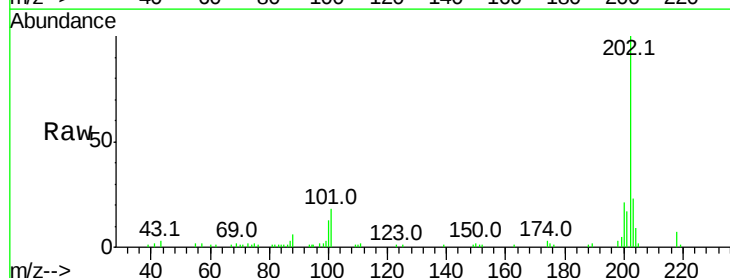
Tgt Ion:202 Resp: 53915

Ion Ratio Lower Upper

202 100

200 21.1 17.6 26.4

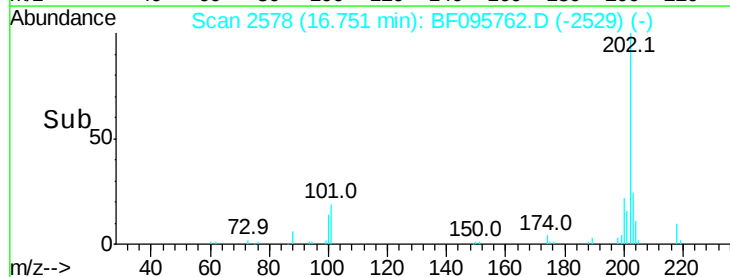
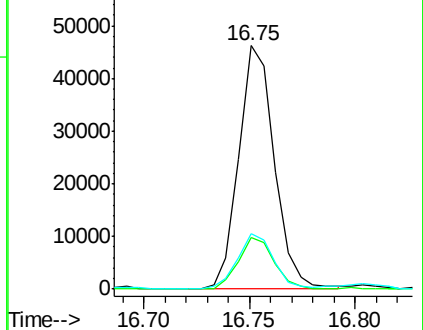
203 22.7 14.4 21.6#

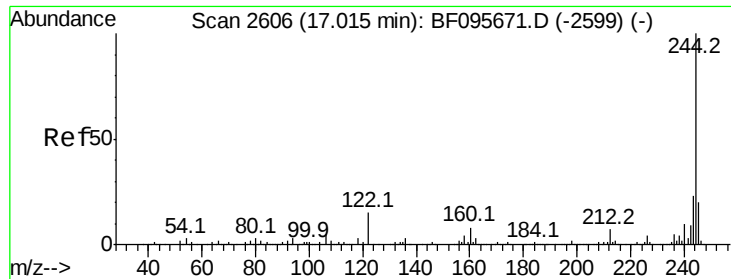


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

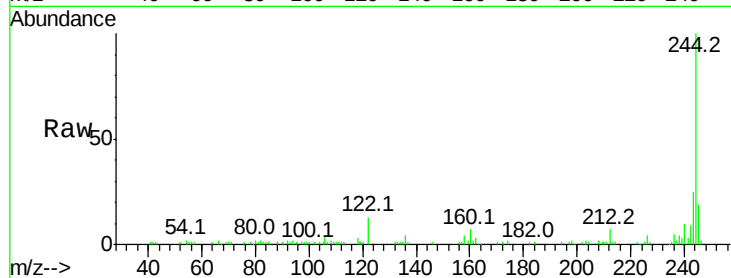




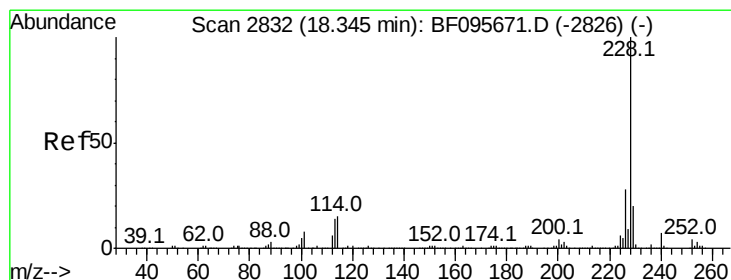
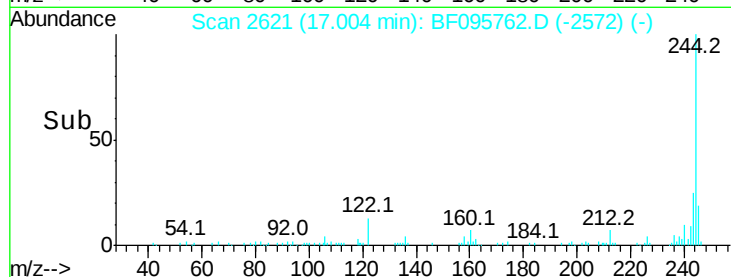
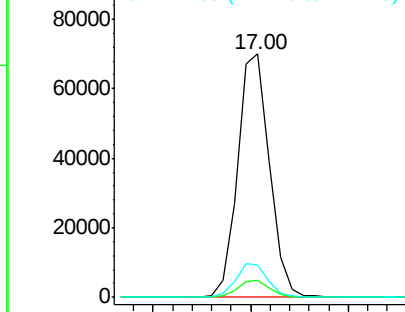
#78  
 Terphenyl-d14  
 Concen: 13.87 ng  
 RT: 17.00 min Scan# 2621  
 Delta R.T. -0.01 min  
 Lab File: BF095762.D  
 Acq: 7 Jun 2017 23:47

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 78761  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 6.0 9.0  
 122 13.5 10.3 15.5

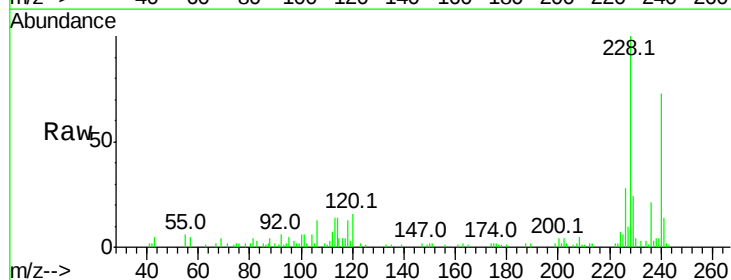


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E

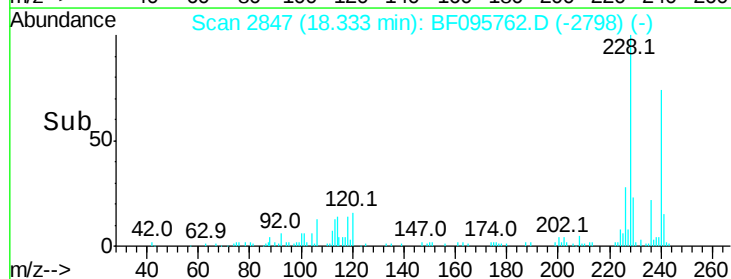
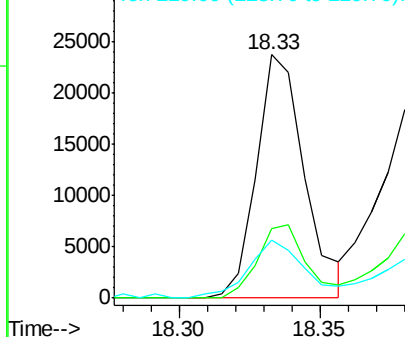


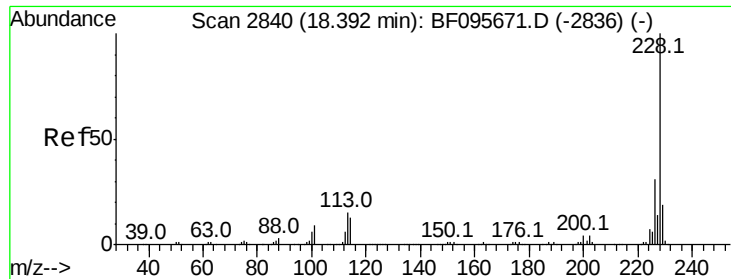
#80  
 Benzo(a)anthracene  
 Concen: 3.42 ng  
 RT: 18.33 min Scan# 2847  
 Delta R.T. -0.01 min  
 Lab File: BF095762.D  
 Acq: 7 Jun 2017 23:47

Tgt Ion:228 Resp: 28018  
 Ion Ratio Lower Upper  
 228 100  
 226 28.5 22.6 33.8  
 229 23.8 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: 3.27 ng

RT: 18.38 min Scan# 2855

Delta R.T. -0.01 min

Lab File: BF095762.D

Acq: 7 Jun 2017 23:47

Instrument :

BNA\_F

ClientSampleId :

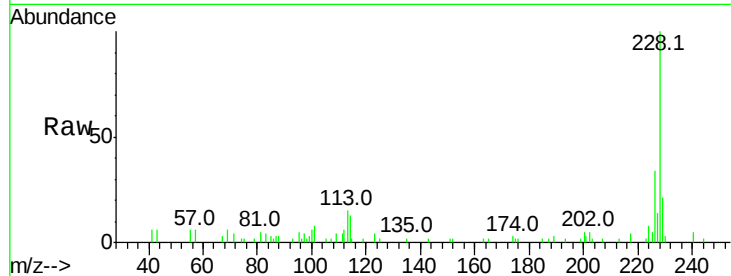
Tot Ion:228 Resp: 26743

Ion Ratio Lower Upper

228 100

226 34.3 24.9 37.3

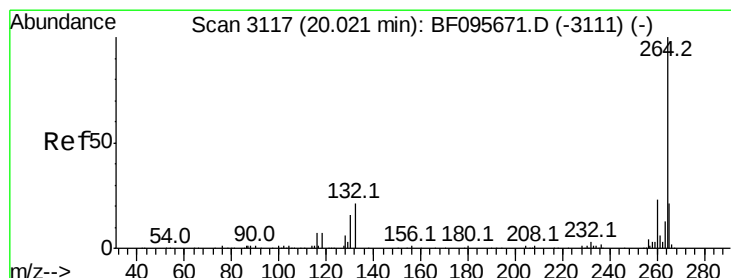
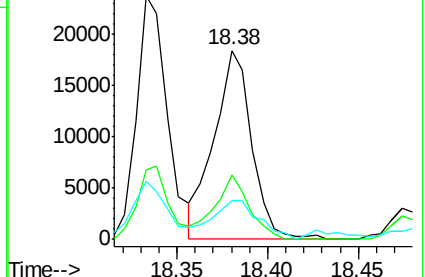
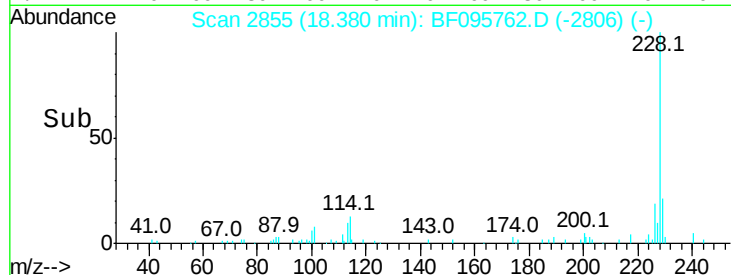
229 20.8 15.8 23.6



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 20.02 min Scan# 3133

Delta R.T. -0.01 min

Lab File: BF095762.D

Acq: 7 Jun 2017 23:47

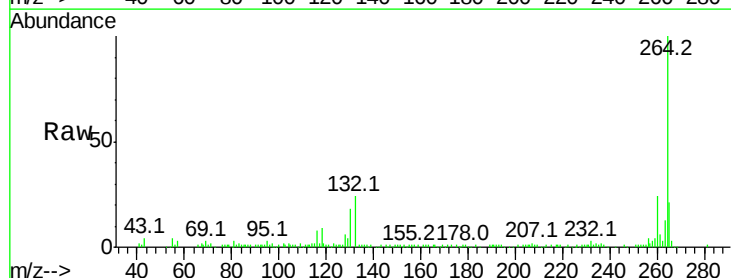
Tgt Ion:264 Resp: 99258

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

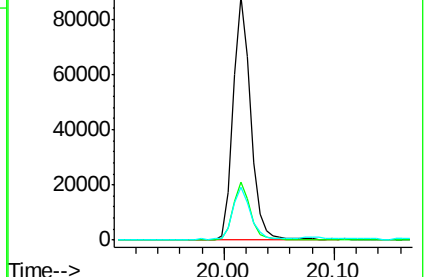
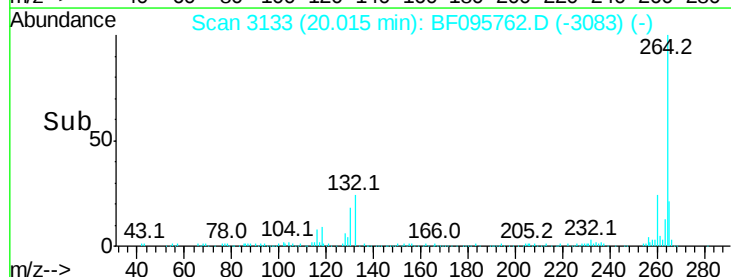
265 21.5 17.2 25.8

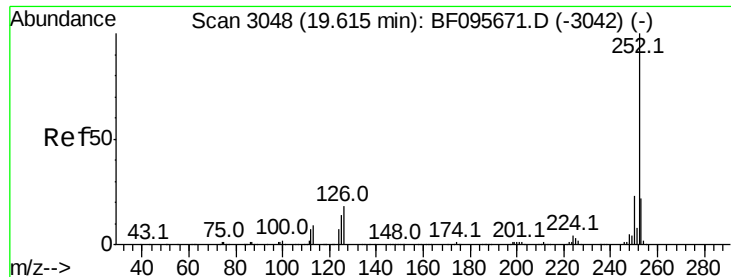


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 6.51 ng

RT: 19.62 min Scan# 3065

Delta R.T. 0.00 min

Lab File: BF095762.D

Acq: 7 Jun 2017 23:47

Instrument :

BNA\_F

ClientSampleId :

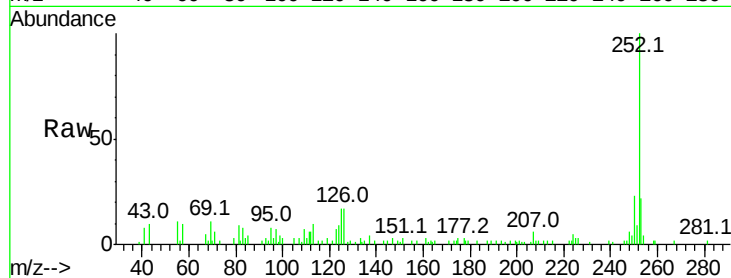
Tot Ion:252 Resp: 40459

Ion Ratio Lower Upper

252 100

253 22.1 18.1 27.1

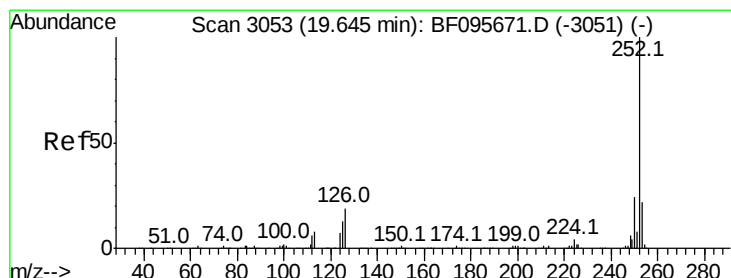
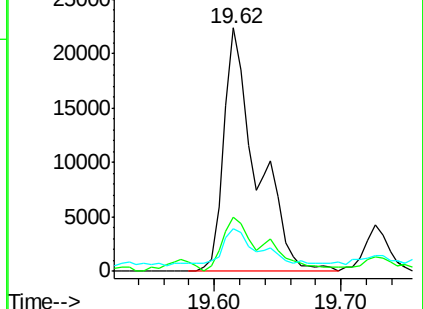
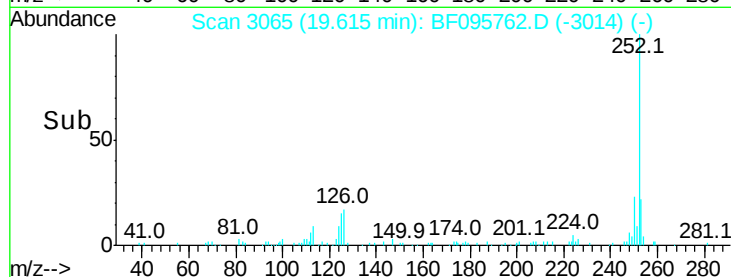
125 17.5 9.8 14.8#



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: 6.81 ng

RT: 19.62 min Scan# 3065

Delta R.T. -0.03 min

Lab File: BF095762.D

Acq: 7 Jun 2017 23:47

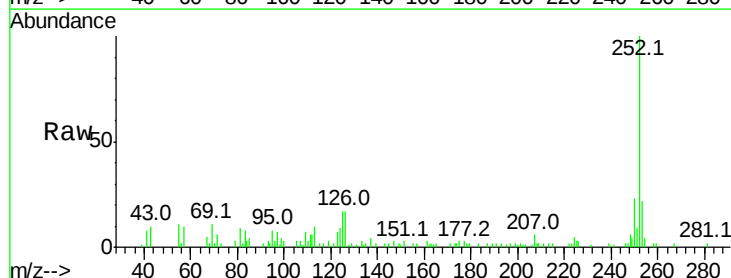
Tgt Ion:252 Resp: 40459

Ion Ratio Lower Upper

252 100

253 22.1 18.4 27.6

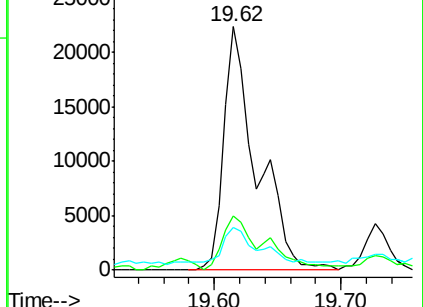
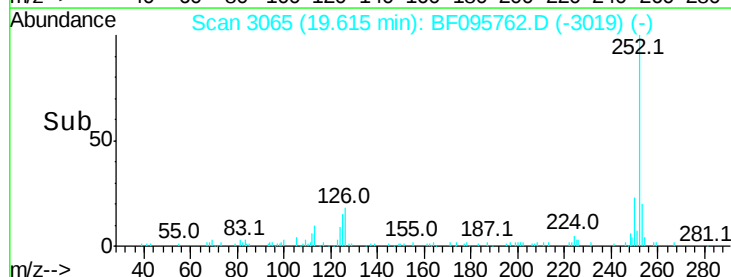
125 17.5 13.1 19.7

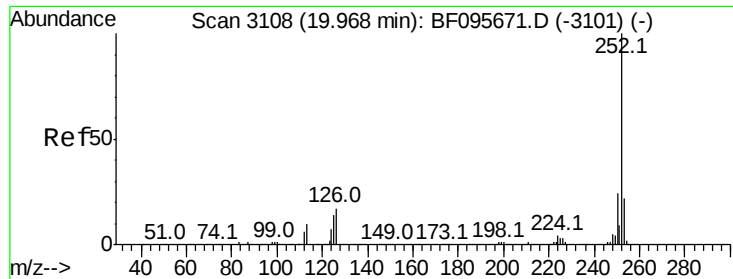


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

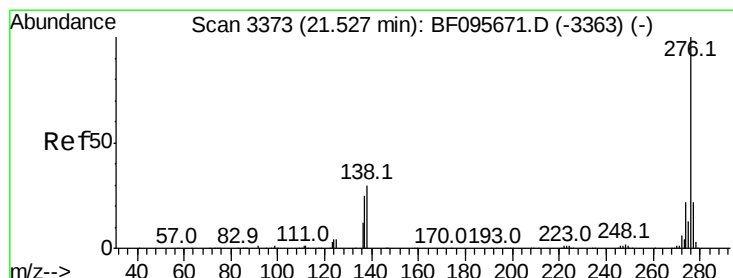
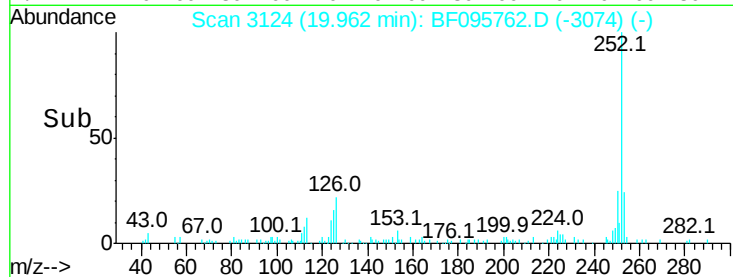
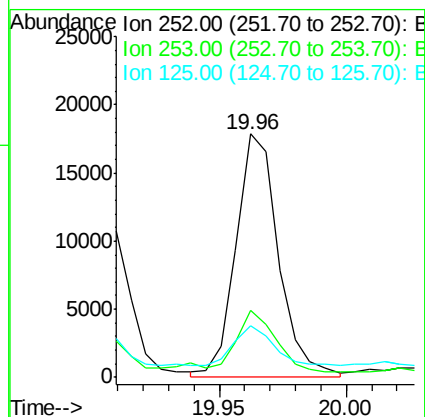
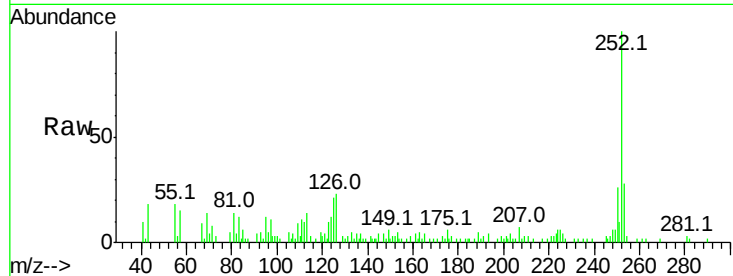




#89  
Benzo(a)pyrene  
Concen: 3.66 ng  
RT: 19.96 min Scan# 3124  
Delta R.T. -0.01 min  
Lab File: BF095762.D  
Acq: 7 Jun 2017 23:47

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 20921  
Ion Ratio Lower Upper  
252 100  
253 27.5 17.5 26.3#  
125 21.0 11.0 16.4#



#91  
Benzo(g,h,i)perylene  
Concen: 2.19 ng  
RT: 21.54 min Scan# 3392  
Delta R.T. 0.01 min  
Lab File: BF095762.D  
Acq: 7 Jun 2017 23:47

Tgt Ion:276 Resp: 10838  
Ion Ratio Lower Upper  
276 100  
277 27.6 18.6 28.0  
138 34.5 25.4 38.0

