

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052717\  
 Data File : BF095527.D  
 Acq On : 28 May 2017 9:19  
 Operator : SJ/MA  
 Sample : I3339-01  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 29 01:22:03 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 26 16:50:16 2017  
 Response via : Initial Calibration

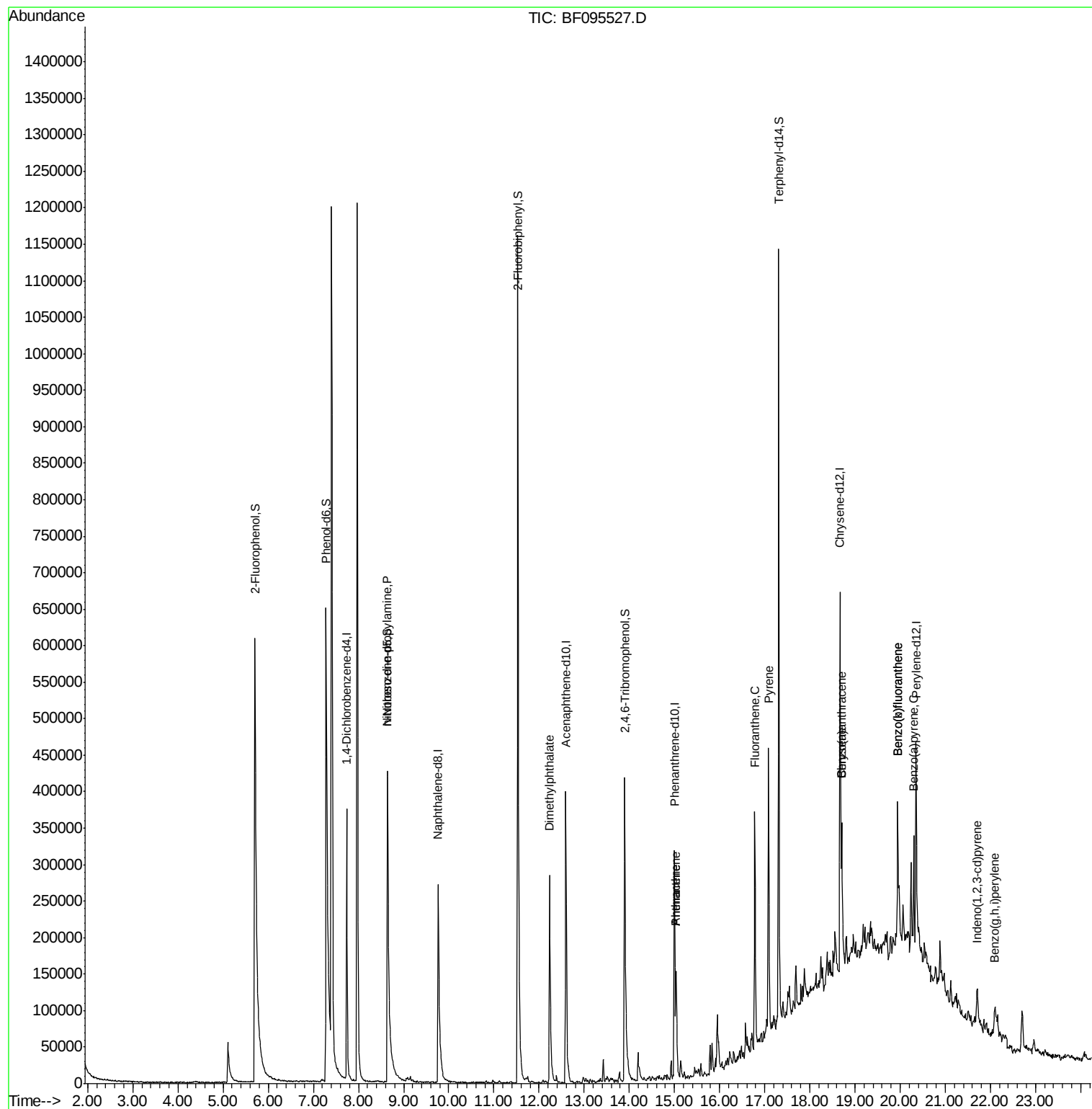
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.74  | 152  | 91649    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 9.77  | 136  | 350122   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 12.60 | 164  | 141622   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 15.00 | 188  | 202803   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 18.67 | 240  | 199133   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 20.35 | 264  | 144063   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.71  | 112  | 599324   | 109.02 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.28  | 99   | 711656   | 107.90 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 8.64  | 82   | 396927   | 71.49  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 13.90 | 330  | 104659   | 90.24  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 11.53 | 172  | 735396   | 74.74  | ng    | 0.00     |
| 78) Terphenyl-d14              | 17.31 | 244  | 420047   | 46.46  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 8.64  | 70   | 43964    | 9.86   | ng    | # 76     |
| 49) Dimethylphthalate          | 12.24 | 163  | 268988   | 23.14  | ng    | 99       |
| 70) Phenanthrene               | 15.04 | 178  | 101220   | 8.69   | ng    | 95       |
| 71) Anthracene                 | 15.04 | 178  | 101220   | 8.50   | ng    | 95       |
| 74) Fluoranthene               | 16.78 | 202  | 196531   | 16.44  | ng    | 98       |
| 77) Pyrene                     | 17.08 | 202  | 192905   | 12.95  | ng    | 97       |
| 80) Benzo(a)anthracene         | 18.71 | 228  | 107183   | 9.25   | ng    | 98       |
| 82) Chrysene                   | 18.71 | 228  | 107183   | 9.56   | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene     | 21.71 | 276  | 34635    | 3.81   | ng    | 94       |
| 87) Benzo(b)fluoranthene       | 19.95 | 252  | 141278   | 15.87  | ng    | # 95     |
| 88) Benzo(k)fluoranthene       | 19.95 | 252  | 141278   | 16.45  | ng    | 98       |
| 89) Benzo(a)pyrene             | 20.30 | 252  | 69597    | 8.47   | ng    | # 93     |
| 91) Benzo(a,h,i)perylene       | 22.09 | 276  | 37906    | 5.69   | ng    | 100      |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.74 min Scan# 986

Delta R.T. -0.01 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

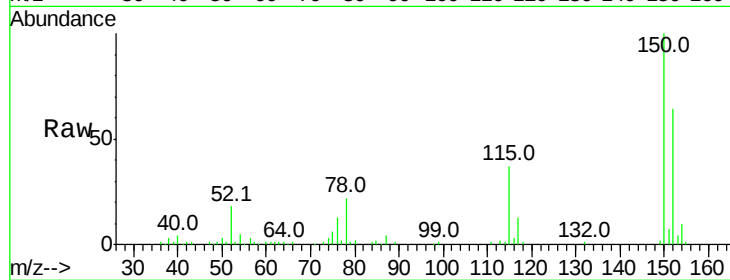
Tot Ion:152 Resp: 91649

Ion Ratio Lower Upper

152 100

150 156.7 126.2 189.2

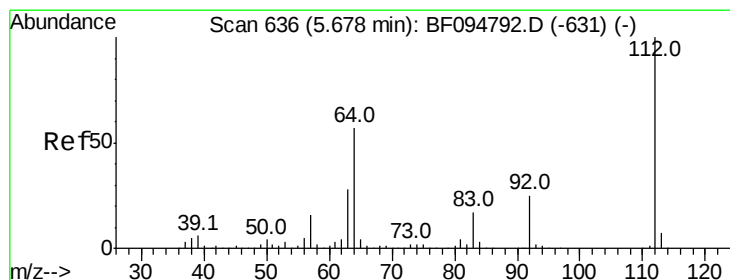
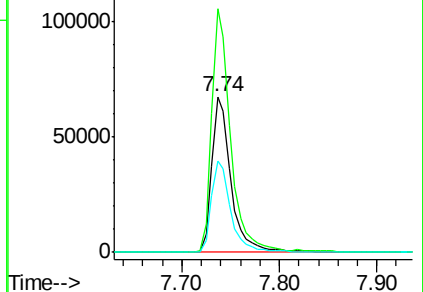
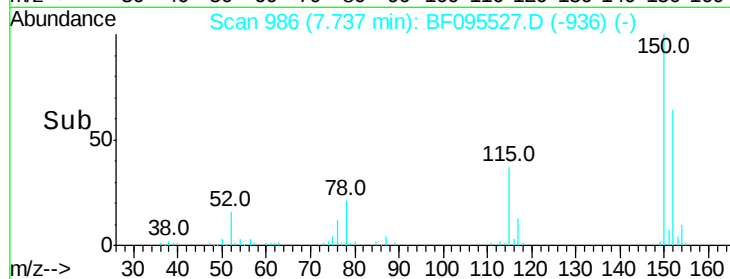
115 58.7 52.2 78.2



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: 109.02 ng

RT: 5.71 min Scan# 641

Delta R.T. 0.00 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

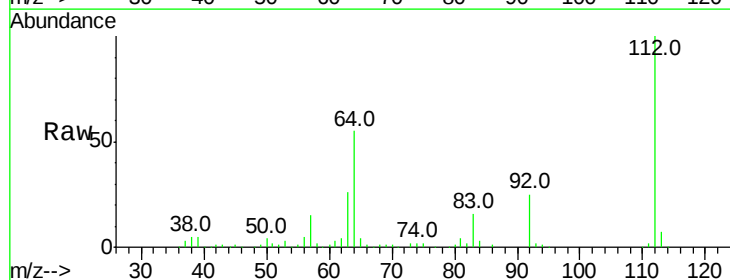
Tgt Ion:112 Resp: 599324

Ion Ratio Lower Upper

112 100

64 55.2 46.0 69.0

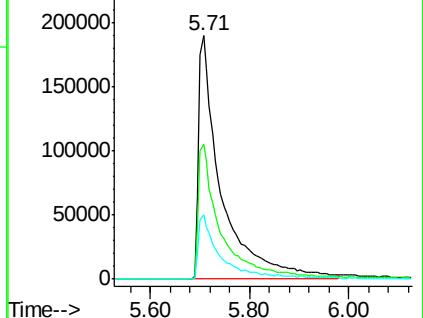
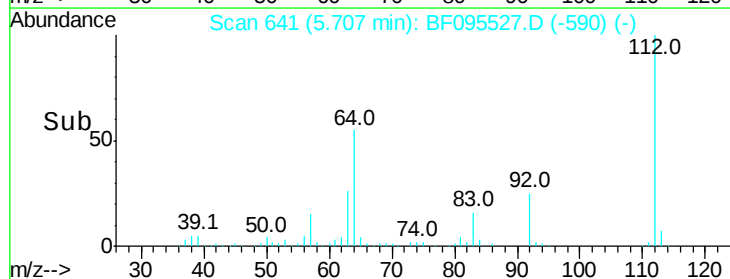
63 26.4 23.4 35.0



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: 107.90 ng

RT: 7.28 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

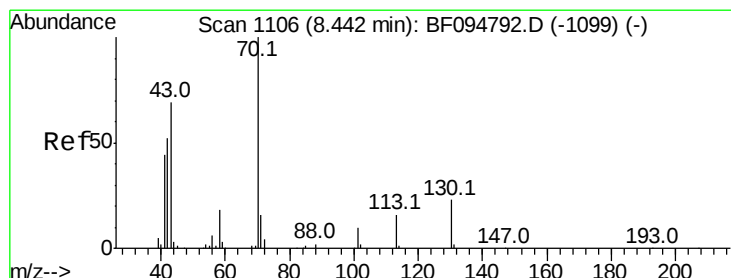
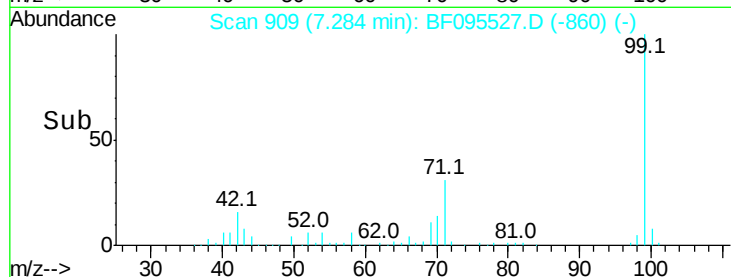
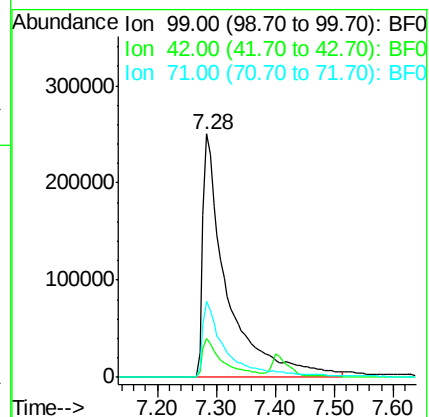
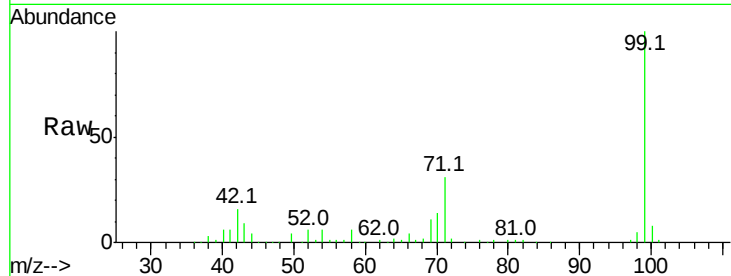
Tot Ion: 99 Resp: 711656

Ion Ratio Lower Upper

99 100

42 15.7 13.5 20.3

71 31.4 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 9.86 ng

RT: 8.64 min Scan# 1140

Delta R.T. 0.18 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

Tgt Ion: 70 Resp: 43964

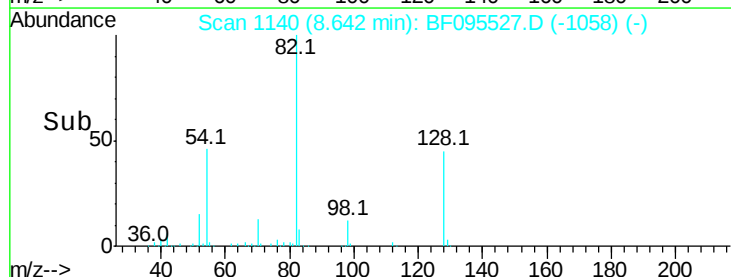
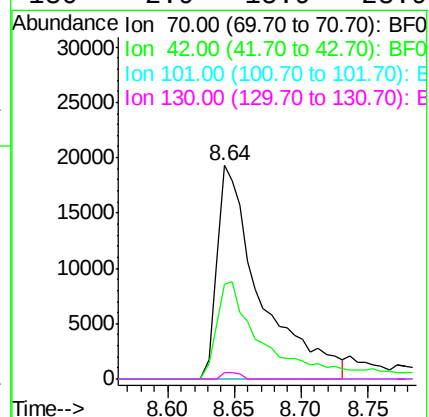
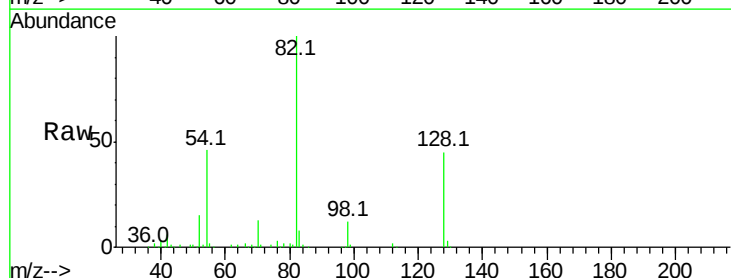
Ion Ratio Lower Upper

70 100

42 44.3 47.2 70.8#

101 0.0 7.2 10.8#

130 2.9 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.77 min Scan# 1331

Delta R.T. 0.01 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 350122

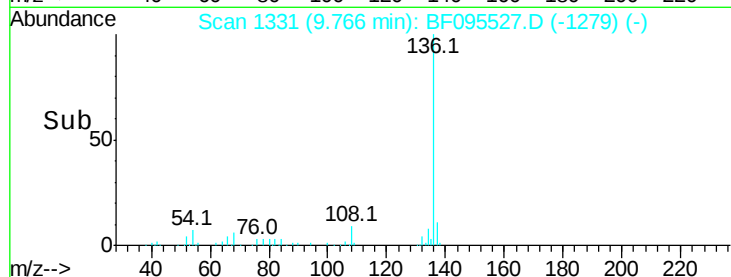
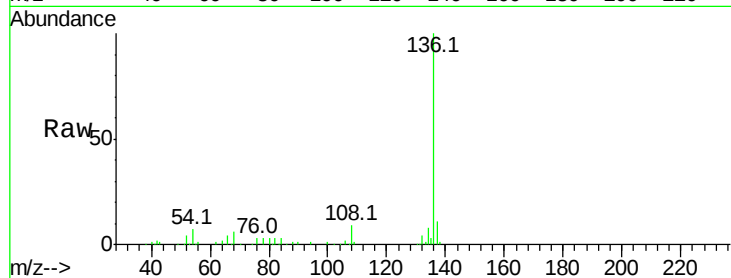
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.0 4.9 7.3

68 6.1 4.1 6.1

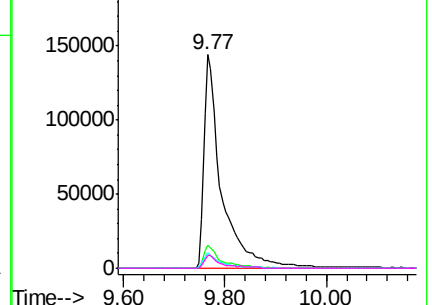


Abundance Ion 136.00 (135.70 to 136.70): E

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: 71.49 ng

RT: 8.64 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

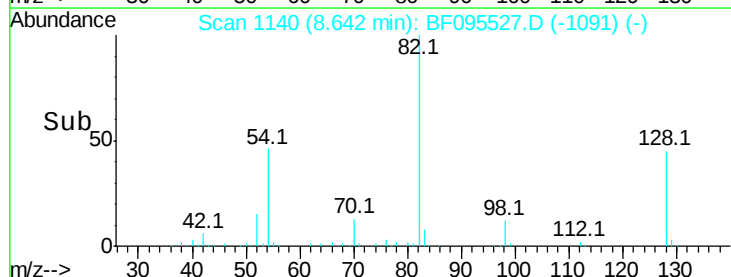
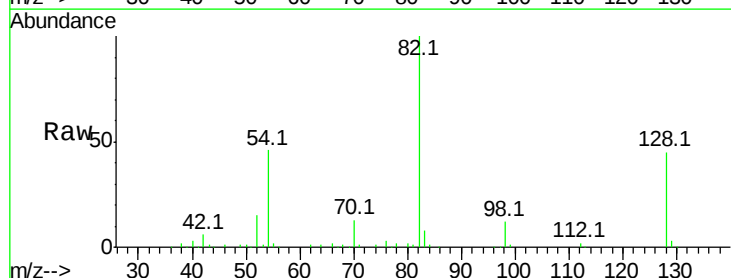
Tgt Ion: 82 Resp: 396927

Ion Ratio Lower Upper

82 100

128 45.0 34.0 51.0

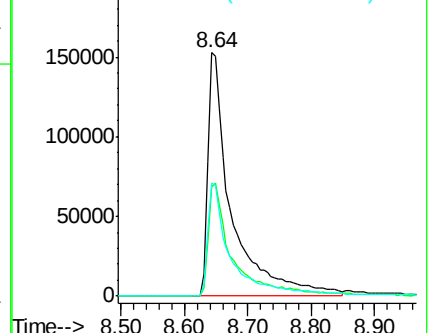
54 46.5 42.2 63.2

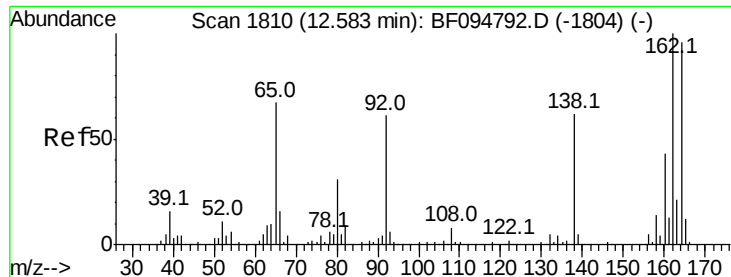


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 12.60 min Scan# 1812

Delta R.T. 0.00 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

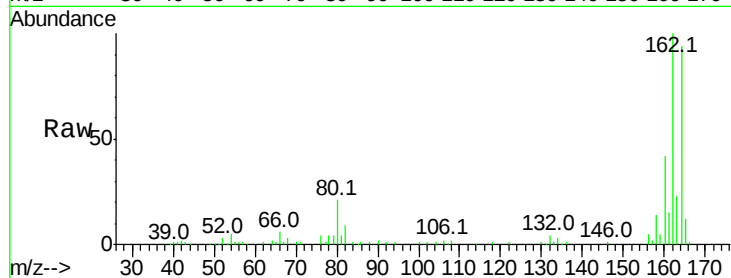
Tot Ion:164 Resp: 141622

Ion Ratio Lower Upper

164 100

162 106.0 82.6 123.8

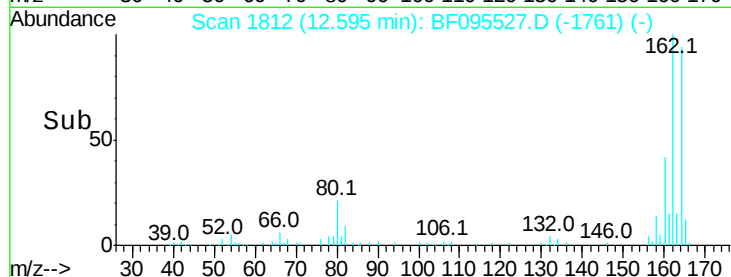
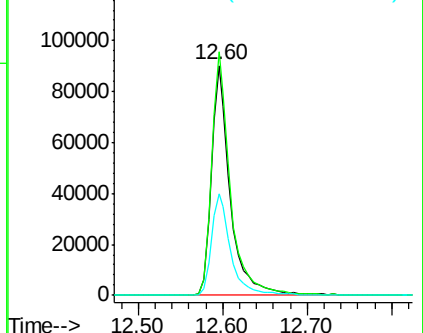
160 44.5 36.2 54.2



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: 90.24 ng

RT: 13.90 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

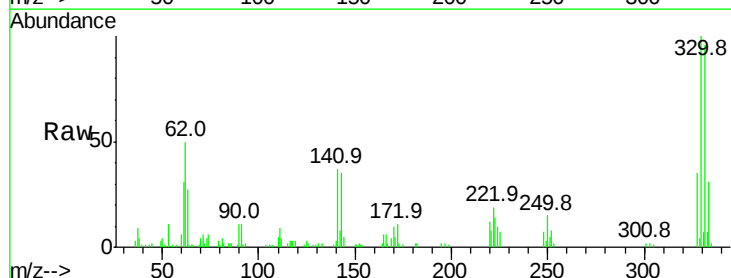
Tgt Ion:330 Resp: 104659

Ion Ratio Lower Upper

330 100

332 99.2 76.6 115.0

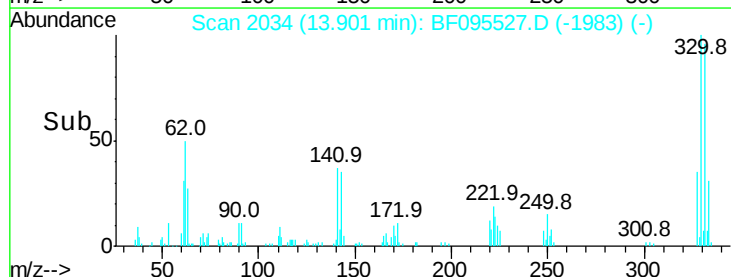
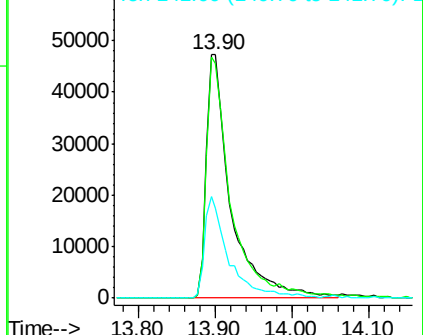
141 41.1 31.4 47.2



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

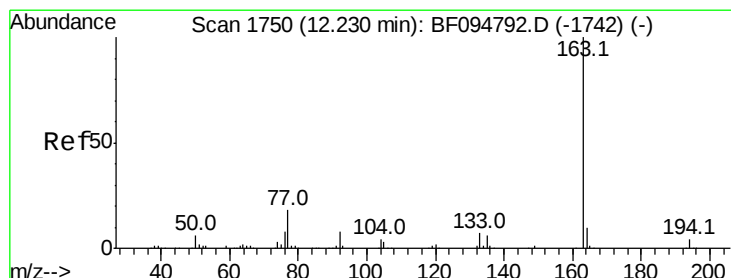
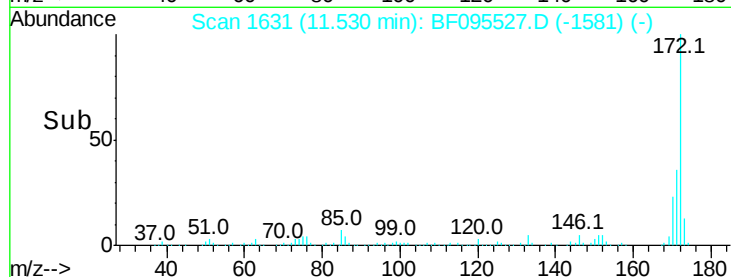
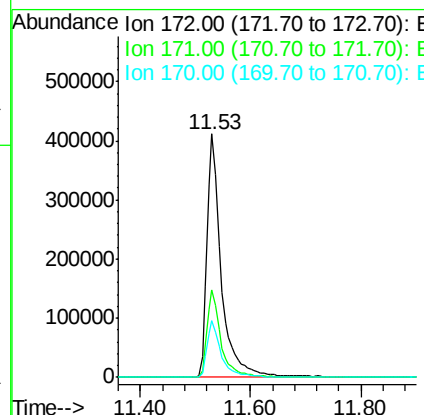
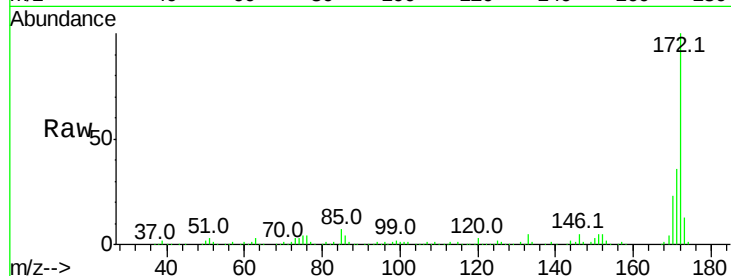




#44  
2-Fluorobiphenyl  
Concen: 74.74 ng  
RT: 11.53 min Scan# 1631  
Delta R.T. -0.01 min  
Lab File: BF095527.D  
Acq: 28 May 2017 9:19

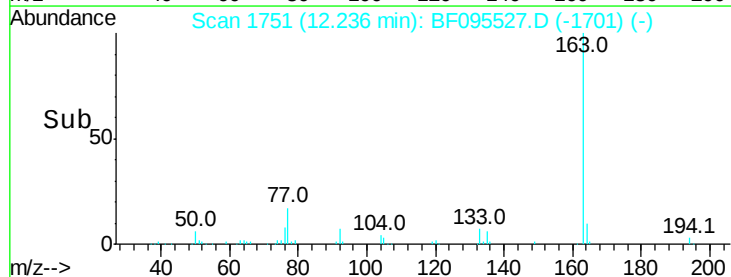
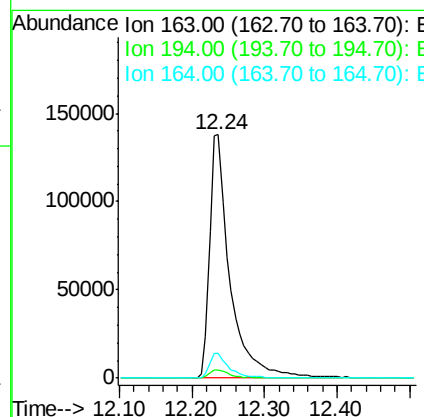
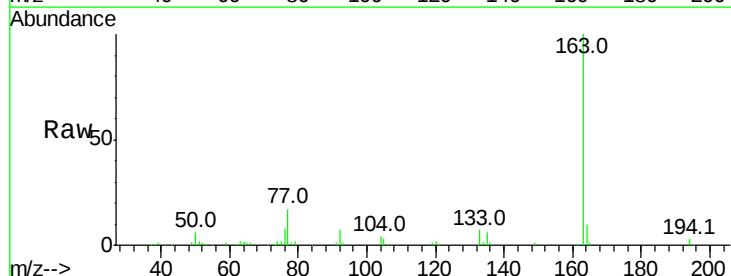
Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.6  | 44.4  |
| 170     | 23.3  | 19.8  | 29.8  |



#49  
Dimethylphthalate  
Concen: 23.14 ng  
RT: 12.24 min Scan# 1751  
Delta R.T. -0.01 min  
Lab File: BF095527.D  
Acq: 28 May 2017 9:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.5   | 2.6   | 4.0   |
| 164     | 10.1  | 8.4   | 12.6  |

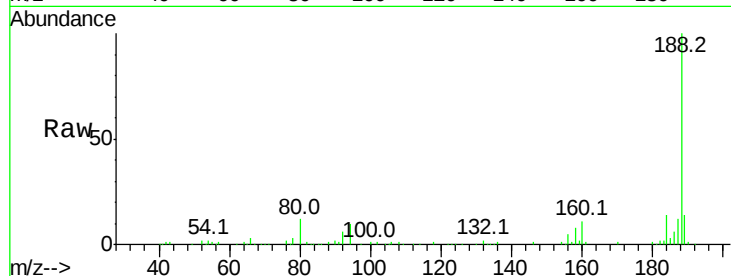




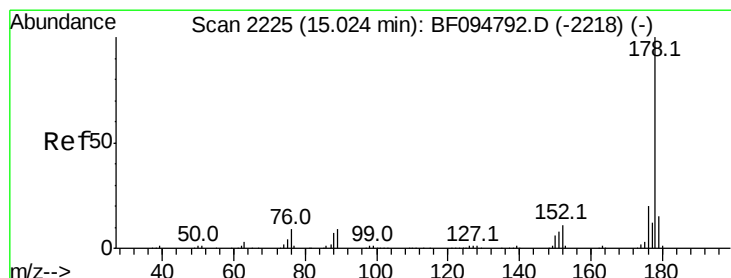
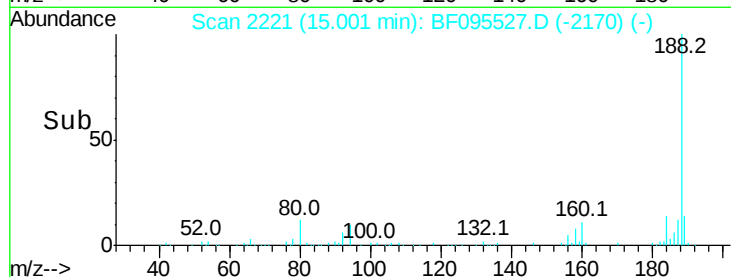
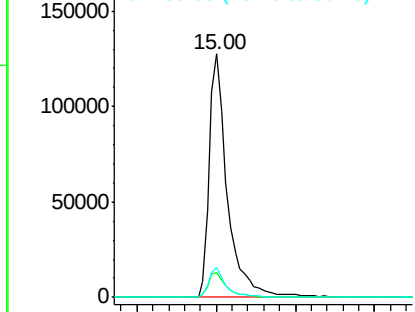
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 15.00 min Scan# 2221  
 Delta R.T. 0.00 min  
 Lab File: BF095527.D  
 Acq: 28 May 2017 9:19

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:188 Resp: 202803  
 Ion Ratio Lower Upper  
 188 100  
 94 10.0 9.4 14.2  
 80 12.1 10.2 15.2

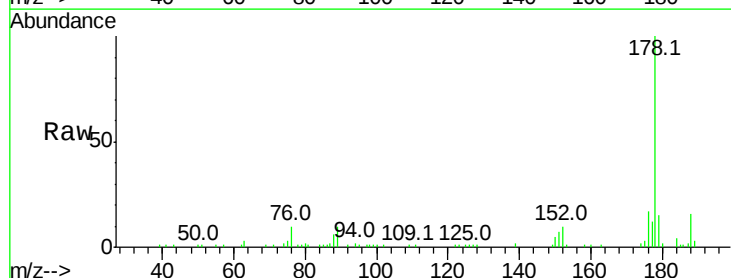


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

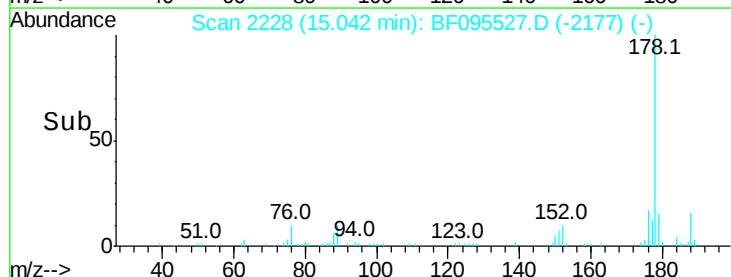
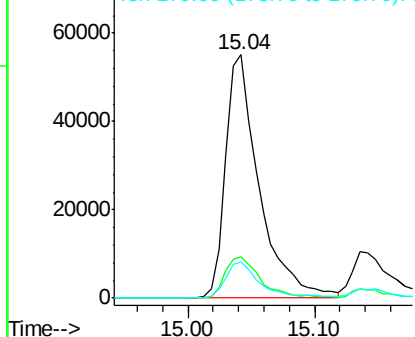


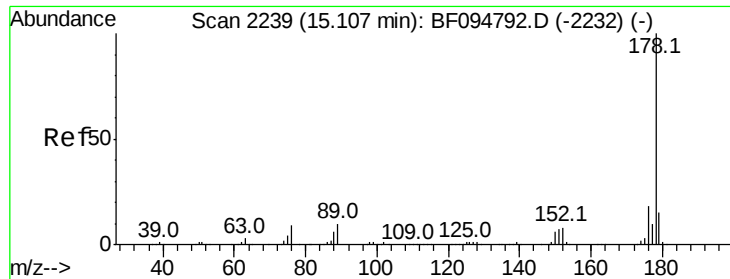
#70  
 Phenanthrene  
 Concen: 8.69 ng  
 RT: 15.04 min Scan# 2228  
 Delta R.T. 0.00 min  
 Lab File: BF095527.D  
 Acq: 28 May 2017 9:19

Tgt Ion:178 Resp: 101220  
 Ion Ratio Lower Upper  
 178 100  
 176 17.0 16.2 24.4  
 179 14.6 12.6 19.0



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

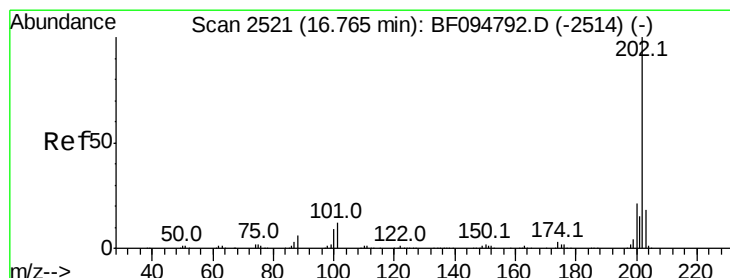
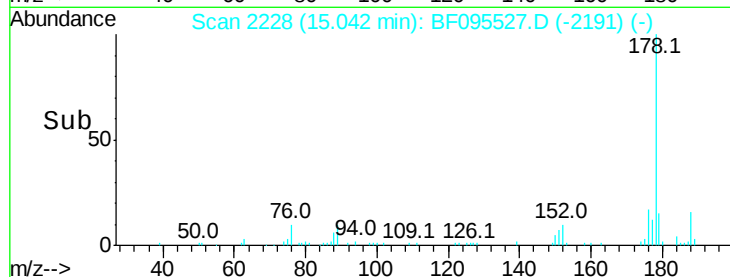
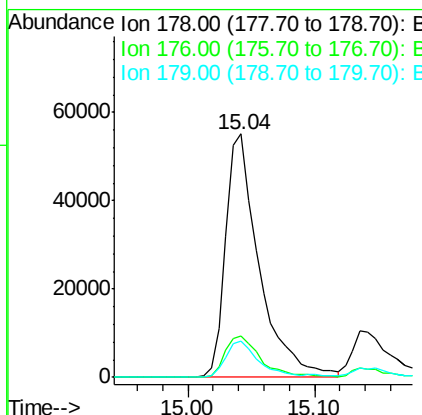
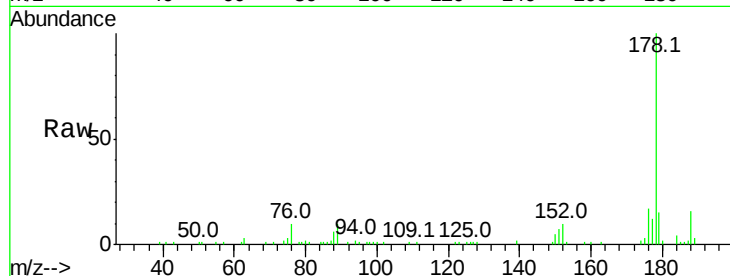




#71  
 Anthracene  
 Concen: 8.50 ng  
 RT: 15.04 min Scan# 2228  
 Delta R.T. -0.08 min  
 Lab File: BF095527.D  
 Acq: 28 May 2017 9:19

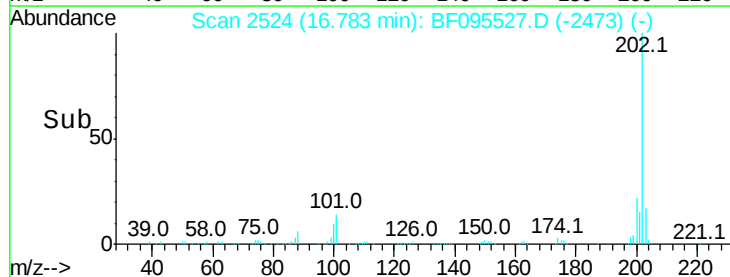
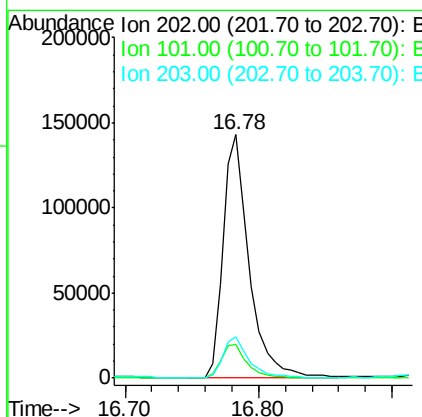
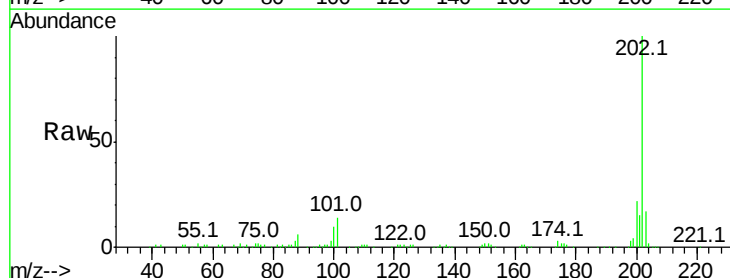
Instrument :  
 BNA\_F  
 ClientSampleId :

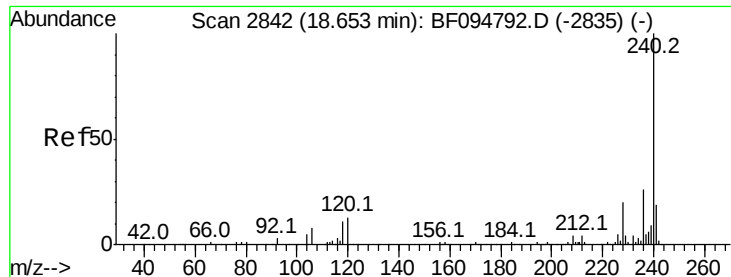
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.0  | 15.8  | 23.8  |
| 179     | 14.6  | 12.7  | 19.1  |



#74  
 Fluoranthene  
 Concen: 16.44 ng  
 RT: 16.78 min Scan# 2524  
 Delta R.T. 0.00 min  
 Lab File: BF095527.D  
 Acq: 28 May 2017 9:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.8  | 0.0   | 33.2  |
| 203     | 16.8  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.67 min Scan# 2845

Delta R.T. -0.01 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

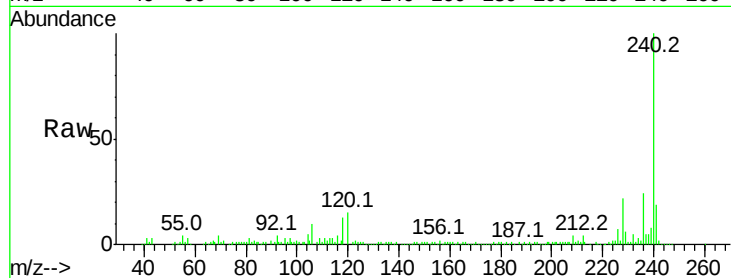
Tot Ion:240 Resp: 199133

Ion Ratio Lower Upper

240 100

120 15.3 5.8 8.8#

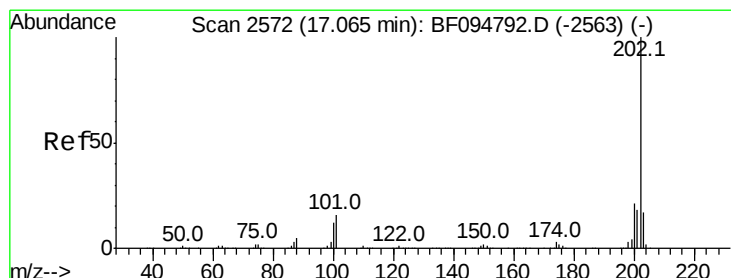
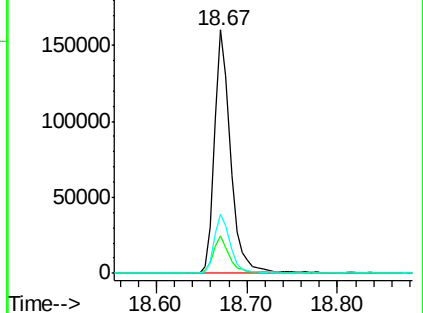
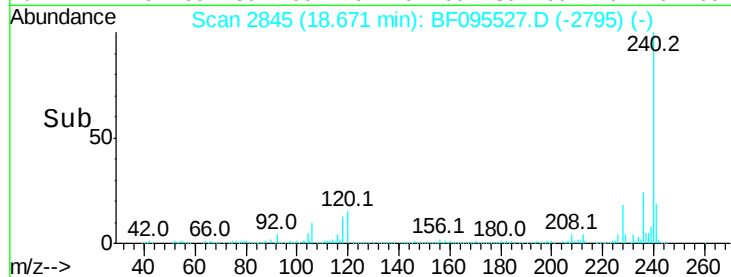
236 24.5 20.5 30.7



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: 12.95 ng

RT: 17.08 min Scan# 2575

Delta R.T. -0.01 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

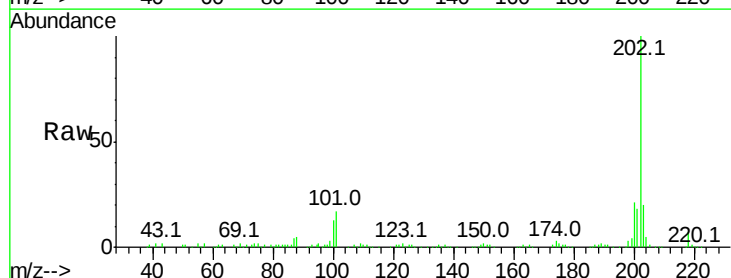
Tgt Ion:202 Resp: 192905

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

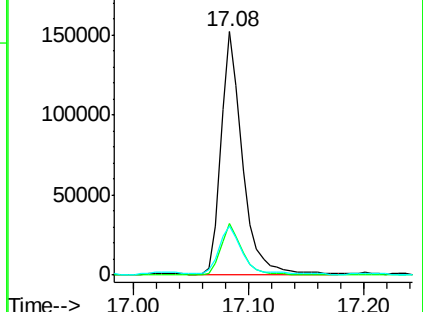
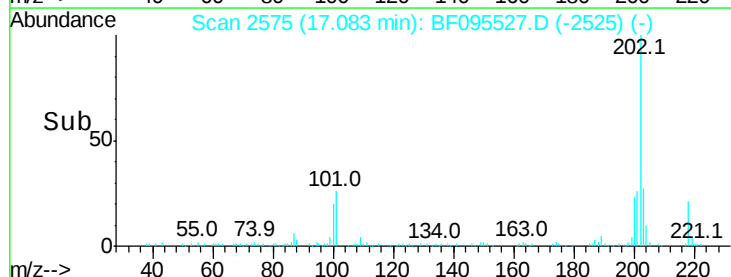
203 20.4 14.4 21.6

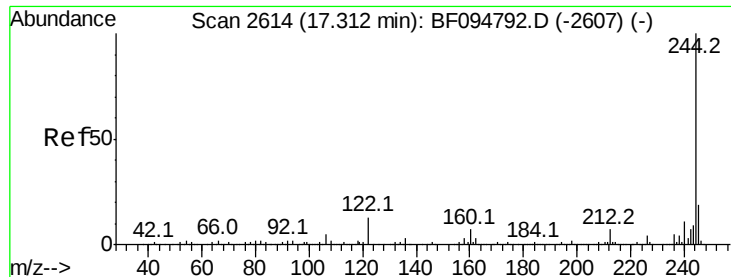


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 46.46 ng

RT: 17.31 min Scan# 2614

Delta R.T. -0.01 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

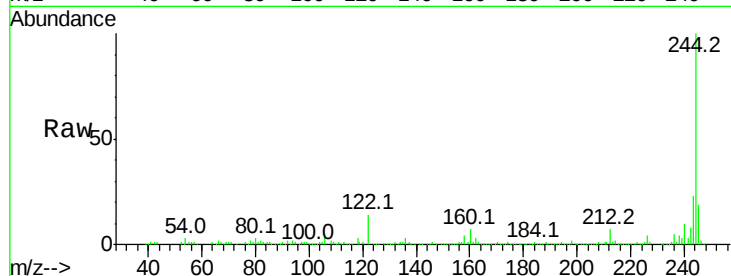
Tot Ion:244 Resp: 420047

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

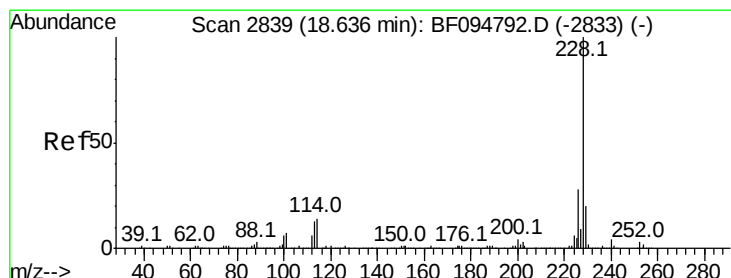
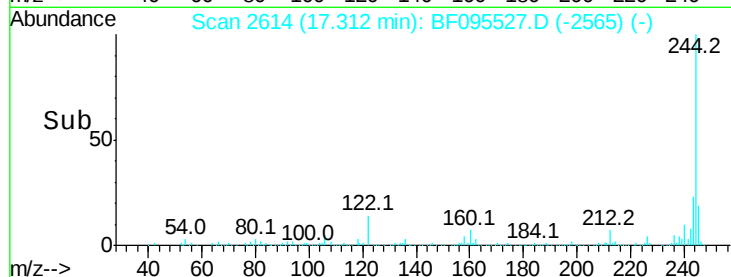
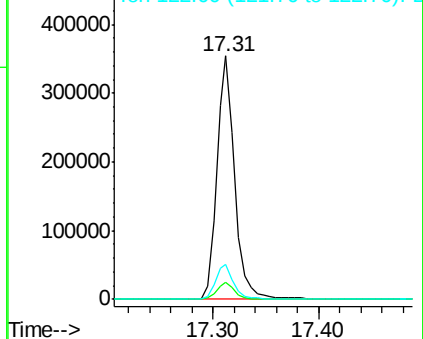
122 14.2 10.3 15.5



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: 9.25 ng

RT: 18.71 min Scan# 2851

Delta R.T. 0.04 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

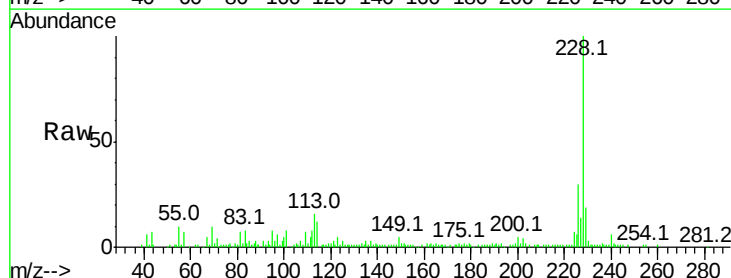
Tgt Ion:228 Resp: 107183

Ion Ratio Lower Upper

228 100

226 29.7 22.6 33.8

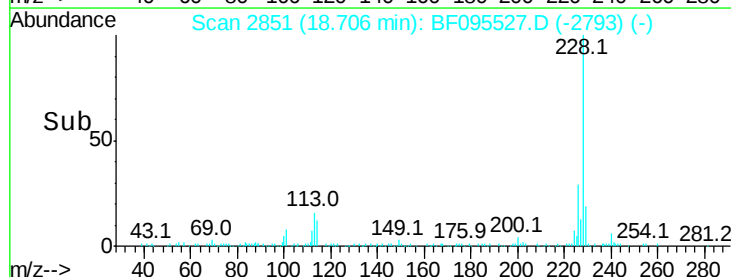
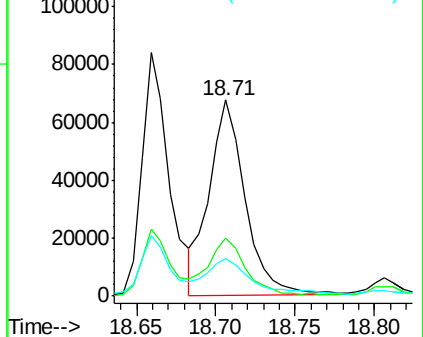
229 19.5 16.3 24.5

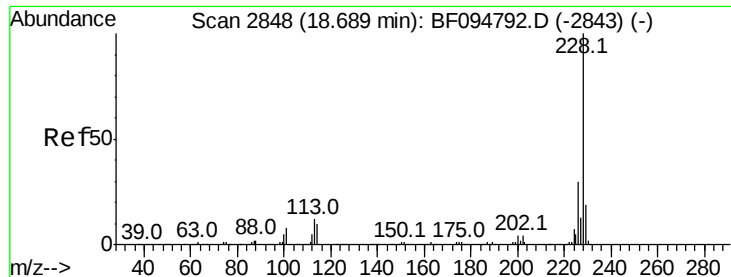


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.56 ng

RT: 18.71 min Scan# 2851

Delta R.T. -0.01 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

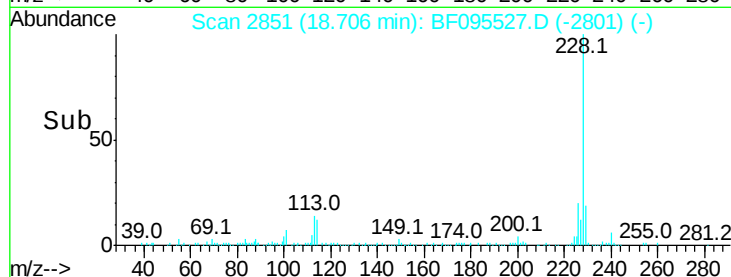
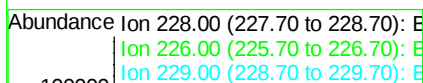
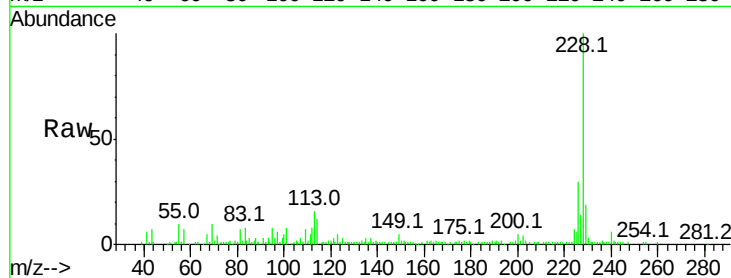
Tot Ion:228 Resp: 107183

Ion Ratio Lower Upper

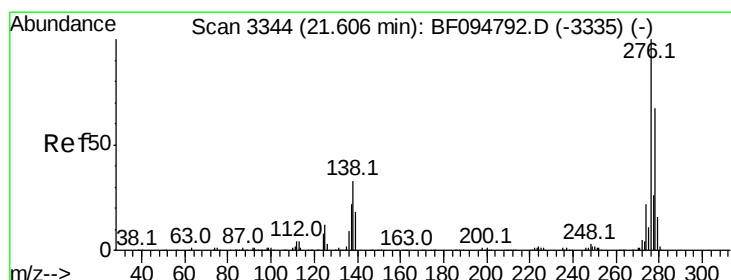
228 100

226 29.7 24.9 37.3

229 19.5 15.8 23.6



Time-->



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.81 ng

RT: 21.71 min Scan# 3361

Delta R.T. 0.02 min

Lab File: BF095527.D

Acq: 28 May 2017 9:19

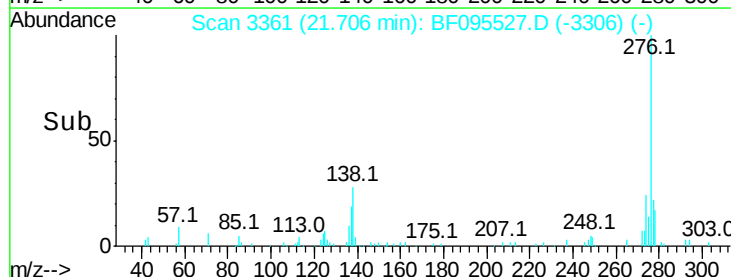
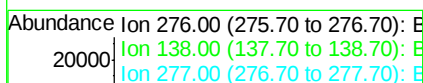
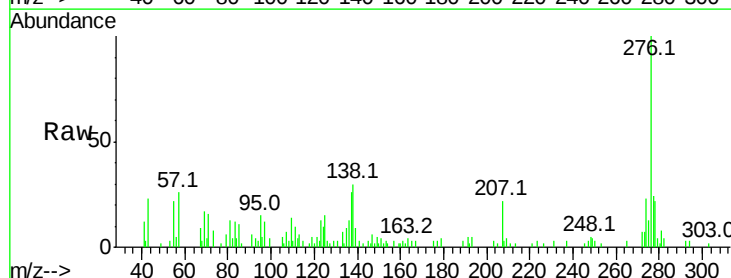
Tgt Ion:276 Resp: 34635

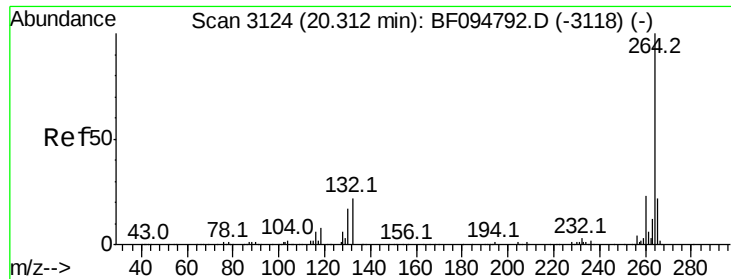
Ion Ratio Lower Upper

276 100

138 31.2 27.8 41.6

277 22.2 20.2 30.4

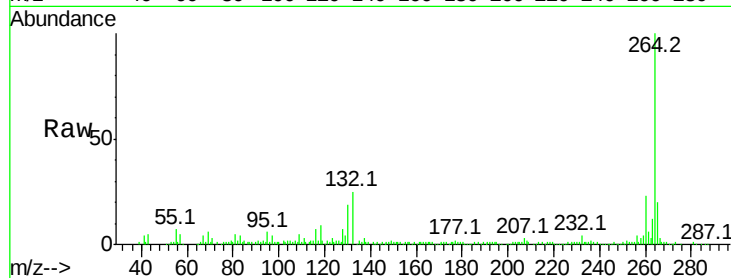




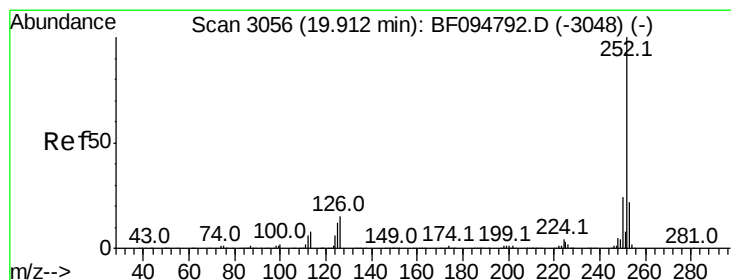
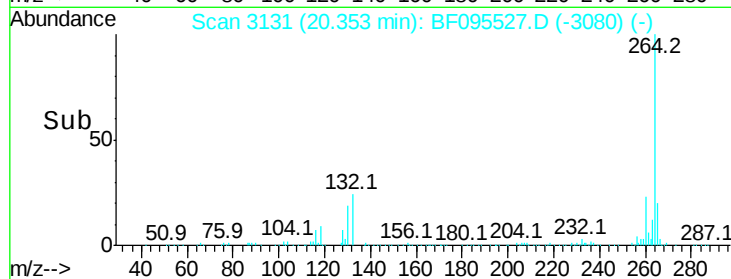
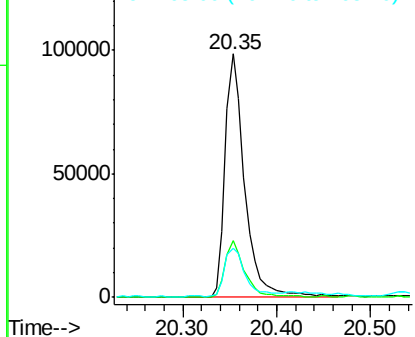
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.35 min Scan# 3131  
Delta R.T. 0.00 min  
Lab File: BF095527.D  
Acq: 28 May 2017 9:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 144063  
Ion Ratio Lower Upper  
264 100  
260 23.4 19.5 29.3  
265 20.2 17.2 25.8

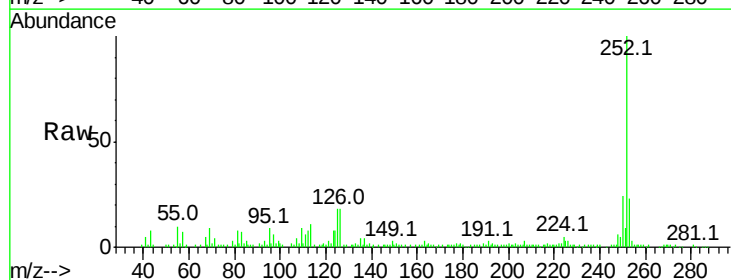


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

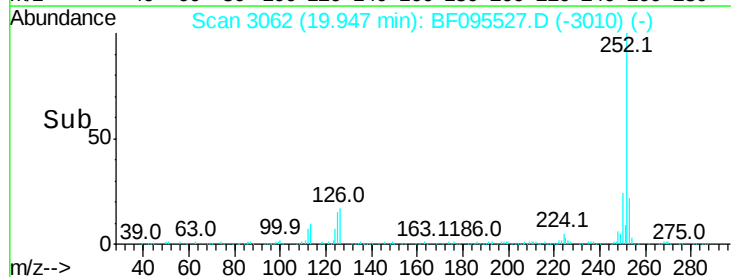
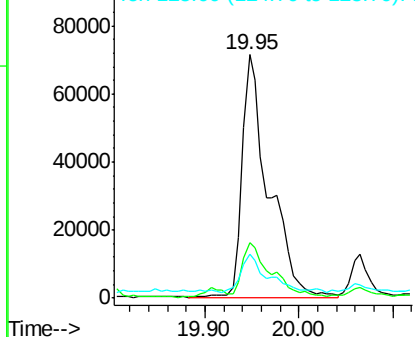


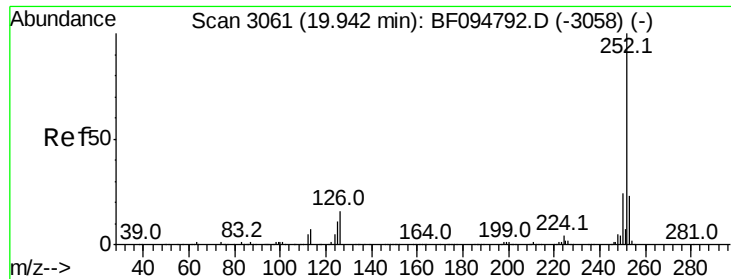
#87  
Benzo(b)fluoranthene  
Concen: 15.87 ng  
RT: 19.95 min Scan# 3062  
Delta R.T. 0.01 min  
Lab File: BF095527.D  
Acq: 28 May 2017 9:19

Tgt Ion:252 Resp: 141278  
Ion Ratio Lower Upper  
252 100  
253 22.7 18.1 27.1  
125 18.1 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

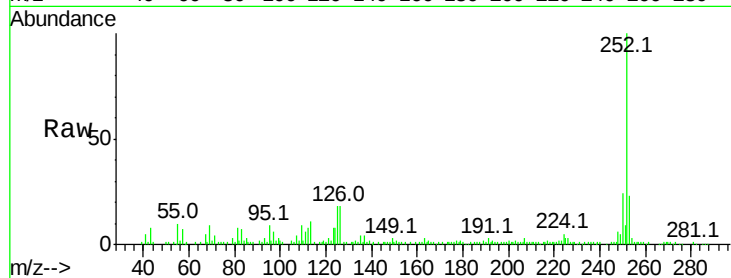




#88  
Benzo(k)fluoranthene  
Concen: 16.45 ng  
RT: 19.95 min Scan# 3062  
Delta R.T. -0.02 min  
Lab File: BF095527.D  
Acq: 28 May 2017 9:19

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 18.4  | 27.6  |
| 125     | 18.1  | 13.1  | 19.7  |

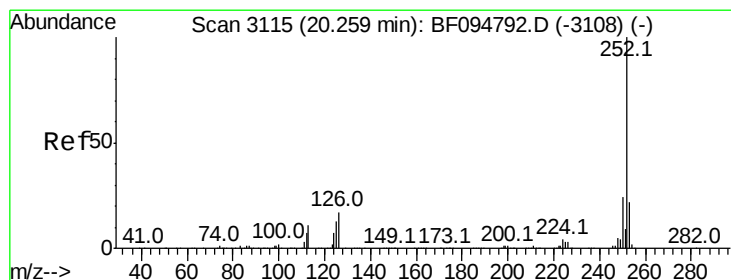
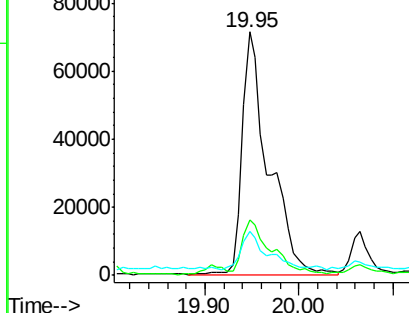
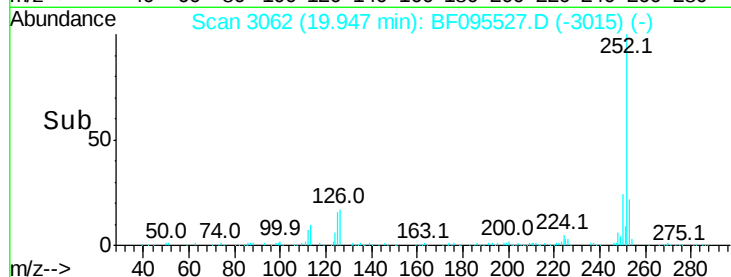


Abundance

Ion 252.00 (251.70 to 252.70): E

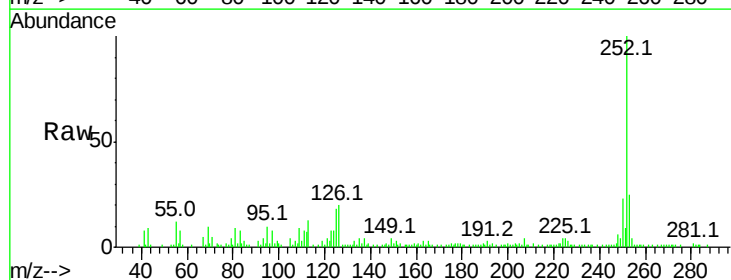
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89  
Benzo(a)pyrene  
Concen: 8.47 ng  
RT: 20.30 min Scan# 3122  
Delta R.T. 0.00 min  
Lab File: BF095527.D  
Acq: 28 May 2017 9:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 17.5  | 26.3  |
| 125     | 17.9  | 11.0  | 16.4# |

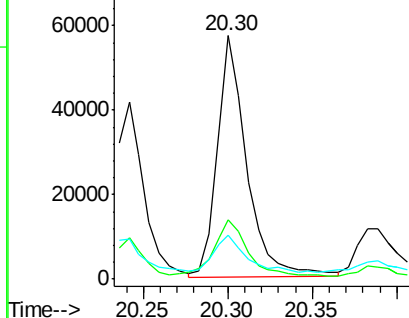
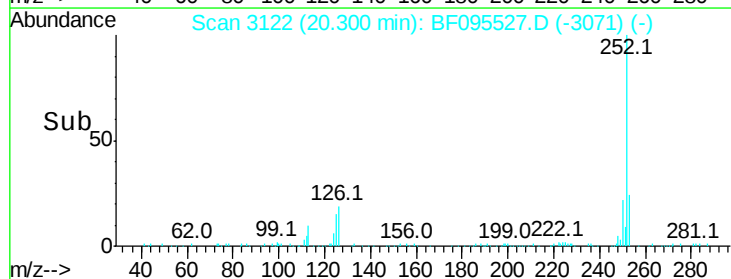


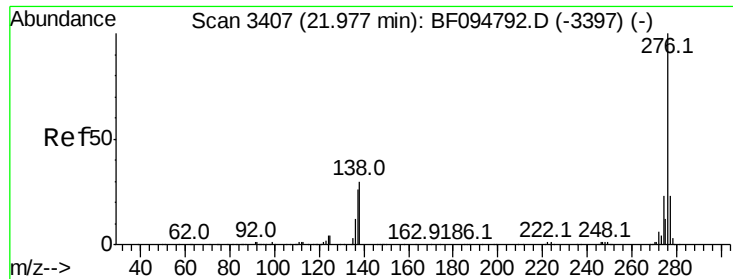
Abundance

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

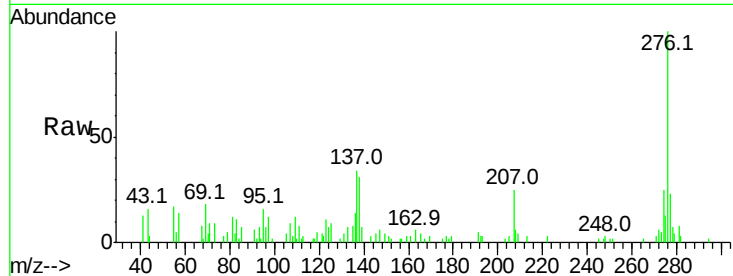




#91  
 Benzo(a,h,i)perylene  
 Concen: 5.69 ng  
 RT: 22.09 min Scan# 3427  
 Delta R.T. 0.02 min  
 Lab File: BF095527.D  
 Acq: 28 May 2017 9:19

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 276   | Resp: | 37906 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 23.3  | 18.6  | 28.0  |
| 138      | 31.5  | 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

