

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051617\  
 Data File : BF095162.D  
 Acq On : 16 May 2017 18:21  
 Operator : SJ/MA  
 Sample : I3139-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 17 05:54:51 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

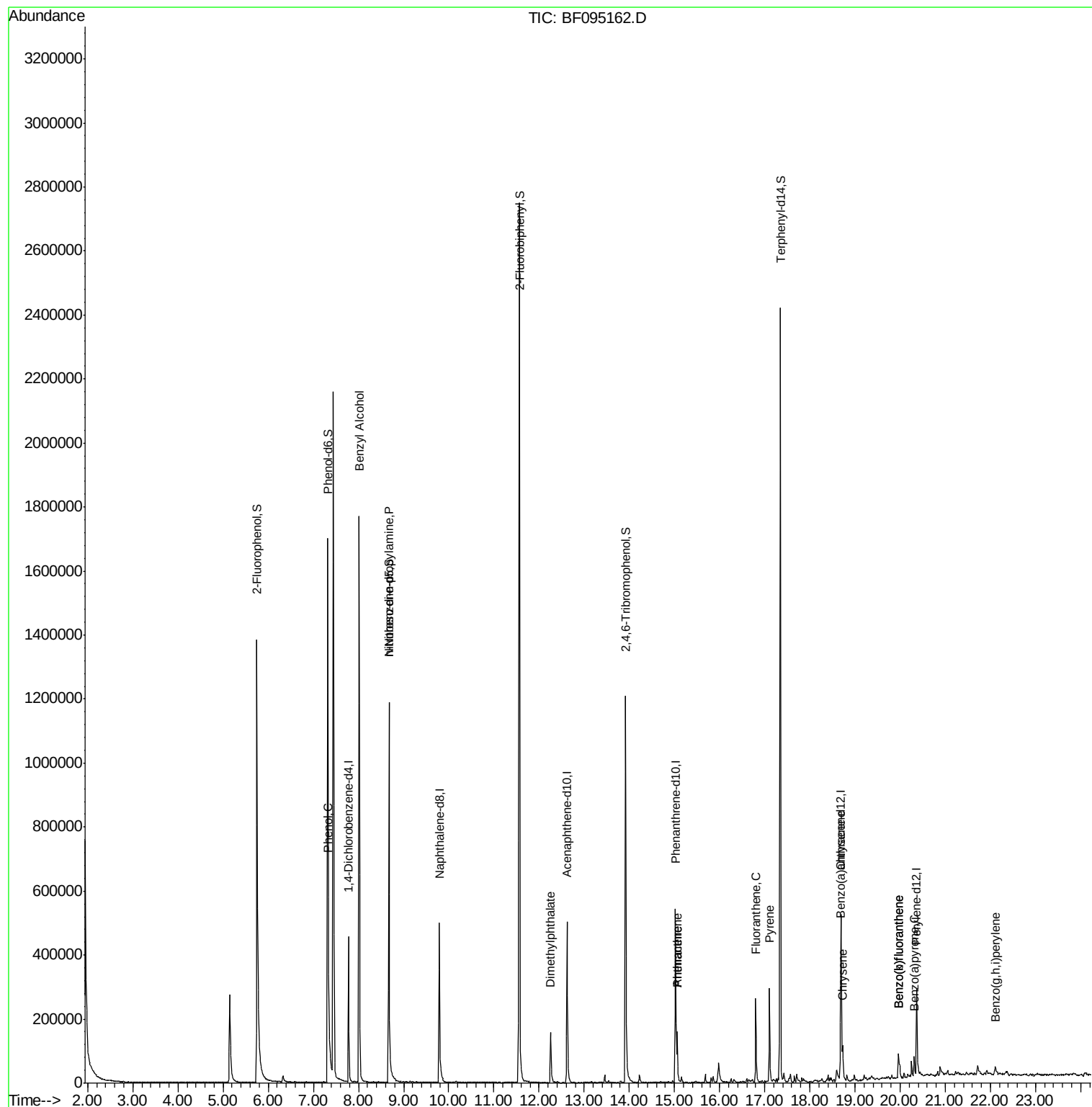
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.78  | 152  | 96686    | 20.00  | ng    | 0.05     |
| 21) Naphthalene-d8             | 9.79  | 136  | 385633   | 20.00  | ng    | 0.04     |
| 38) Acenaphthene-d10           | 12.62 | 164  | 166371   | 20.00  | ng    | 0.04     |
| 63) Phenanthrene-d10           | 15.02 | 188  | 307326   | 20.00  | ng    | 0.04     |
| 75) Chrysene-d12               | 18.69 | 240  | 232341   | 20.00  | ng    | 0.04     |
| 86) Perylene-d12               | 20.37 | 264  | 144426   | 20.00  | ng    | 0.05     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.75  | 112  | 825726   | 142.38 | ng    | 0.08     |
| 7) Phenol-d6                   | 7.32  | 99   | 1011216  | 145.33 | ng    | 0.04     |
| 23) Nitrobenzene-d5            | 8.68  | 82   | 603314   | 98.65  | ng    | 0.04     |
| 41) 2,4,6-Tribromophenol       | 13.92 | 330  | 213399   | 156.62 | ng    | 0.04     |
| 44) 2-Fluorobiphenyl           | 11.57 | 172  | 1294958  | 112.03 | ng    | 0.04     |
| 78) Terphenyl-d14              | 17.35 | 244  | 976250   | 92.55  | ng    | 0.04     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.34  | 94   | 19614    | 2.67   | ng    | # 67     |
| 15) Benzyl Alcohol             | 8.01  | 79   | 9305     | 2.08   | ng    | # 45     |
| 19) n-Nitroso-di-n-propylamine | 8.68  | 70   | 74937    | 15.92  | ng    | # 76     |
| 49) Dimethylphthalate          | 12.25 | 163  | 134469   | 9.85   | ng    | 99       |
| 70) Phenanthrene               | 15.06 | 178  | 87306    | 4.94   | ng    | 98       |
| 71) Anthracene                 | 15.06 | 178  | 87306    | 4.84   | ng    | 98       |
| 74) Fluoranthene               | 16.80 | 202  | 157963   | 8.72   | ng    | 98       |
| 77) Pyrene                     | 17.11 | 202  | 142063   | 8.18   | ng    | 97       |
| 80) Benzo(a)anthracene         | 18.68 | 228  | 48862    | 3.61   | ng    | 95       |
| 82) Chrysene                   | 18.72 | 228  | 56695    | 4.34   | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 19.97 | 252  | 65576    | 7.35   | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 19.97 | 252  | 65576    | 7.62   | ng    | 95       |
| 89) Benzo(a)pyrene             | 20.31 | 252  | 33082    | 4.02   | ng    | 97       |
| 91) Benzo(a,h,i)perylene       | 22.11 | 276  | 21208    | 3.18   | ng    | 98       |

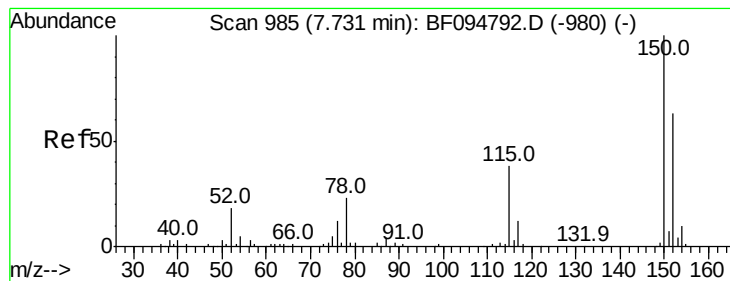
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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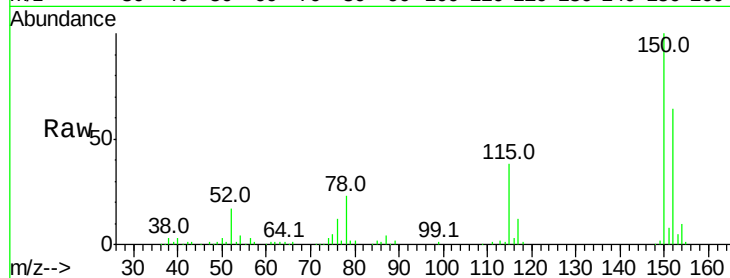


#1

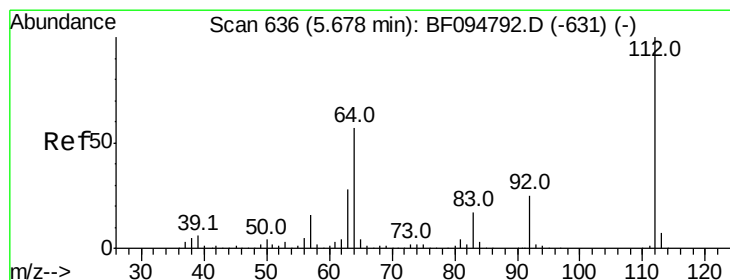
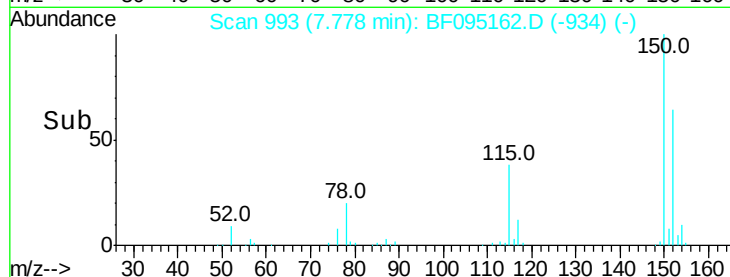
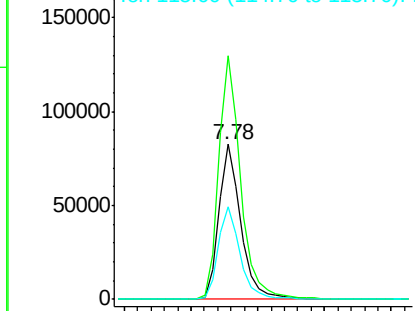
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.78 min Scan# 993  
Delta R.T. 0.05 min  
Lab File: BF095162.D  
Acq: 16 May 2017 18:21

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 96686  
Ion Ratio Lower Upper  
152 100  
150 157.0 126.2 189.2  
115 59.7 52.2 78.2



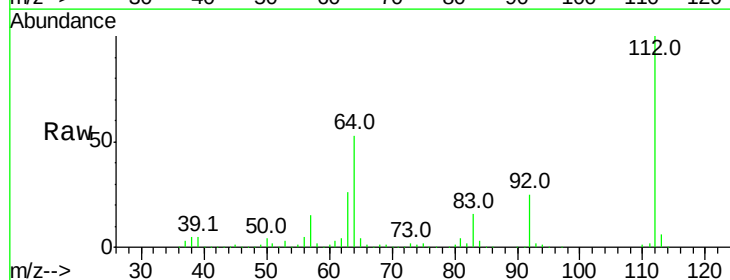
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



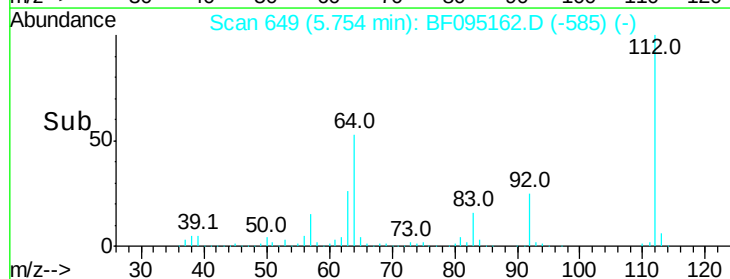
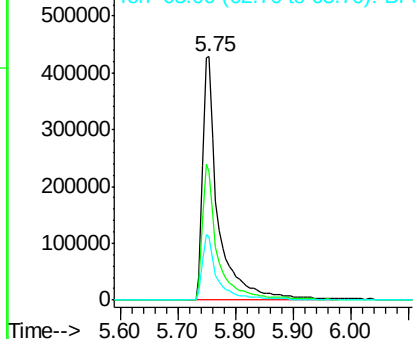
#5

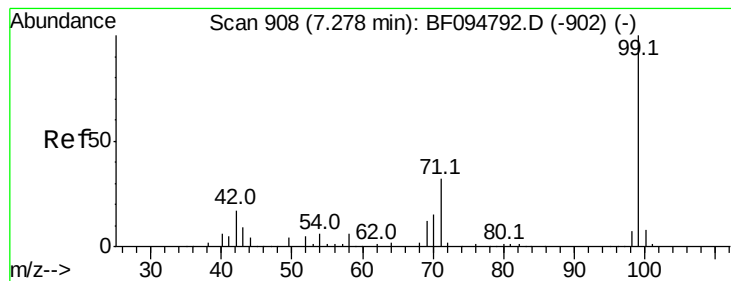
2-Fluorophenol  
Concen: 142.38 ng  
RT: 5.75 min Scan# 649  
Delta R.T. 0.08 min  
Lab File: BF095162.D  
Acq: 16 May 2017 18:21

Tgt Ion:112 Resp: 825726  
Ion Ratio Lower Upper  
112 100  
64 52.6 46.0 69.0  
63 25.8 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: 145.33 ng

RT: 7.32 min Scan# 915

Delta R.T. 0.04 min

Lab File: BF095162.D

Acq: 16 May 2017 18:21

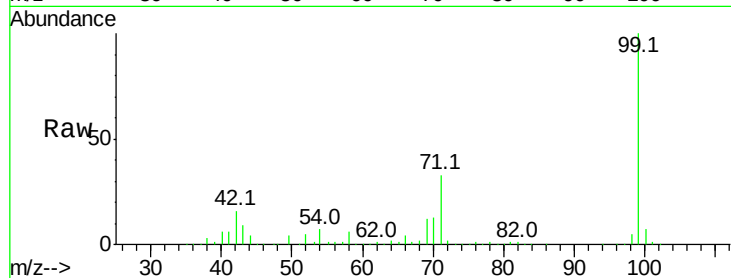
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1011216

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 16.4  | 13.5  | 20.3  |
| 71  | 32.5  | 24.5  | 36.7  |

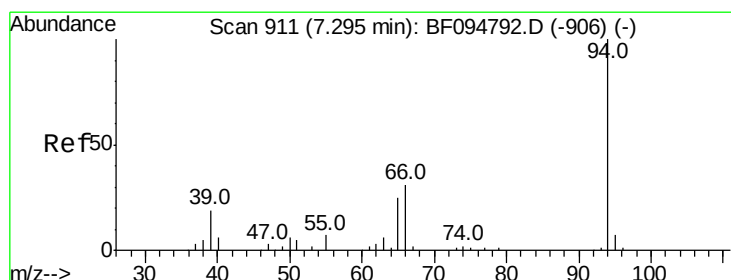
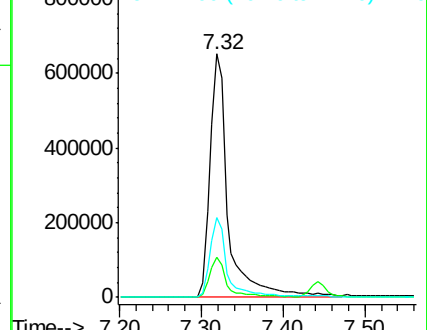
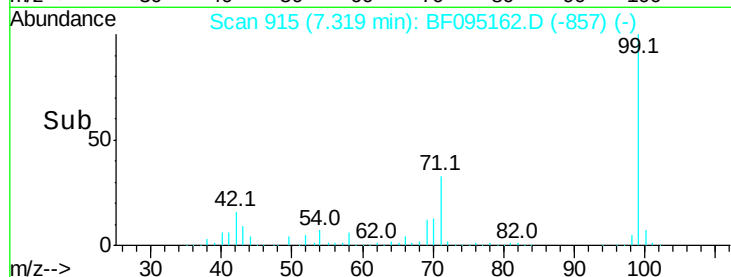


Abundance

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



#10

Phenol

Concen: 2.67 ng

RT: 7.34 min Scan# 918

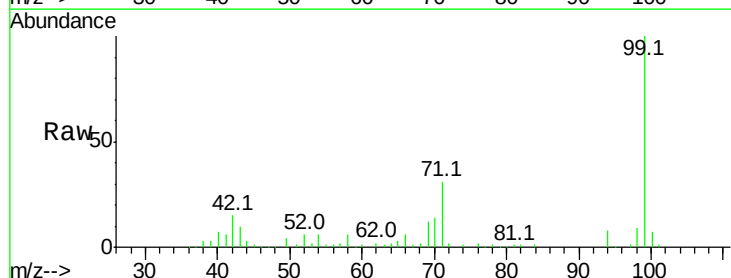
Delta R.T. 0.04 min

Lab File: BF095162.D

Acq: 16 May 2017 18:21

Tgt Ion: 94 Resp: 19614

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 36.0  | 9.9   | 49.9  |
| 66  | 73.9  | 23.1  | 63.1  |

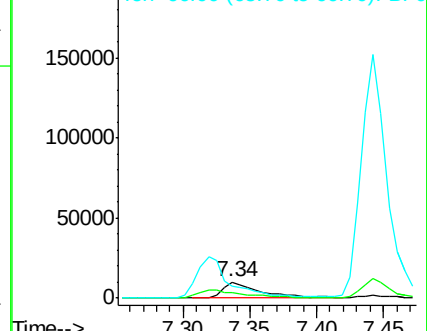
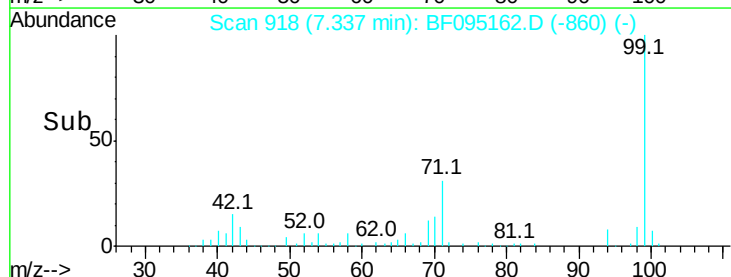


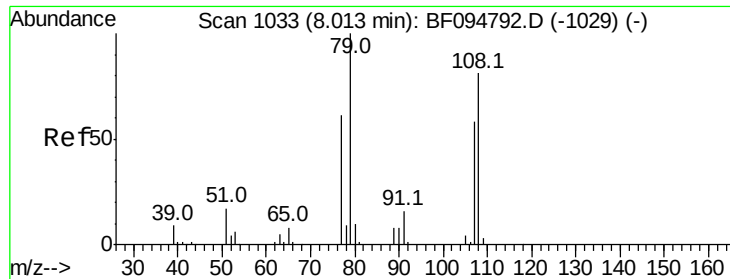
Abundance

Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

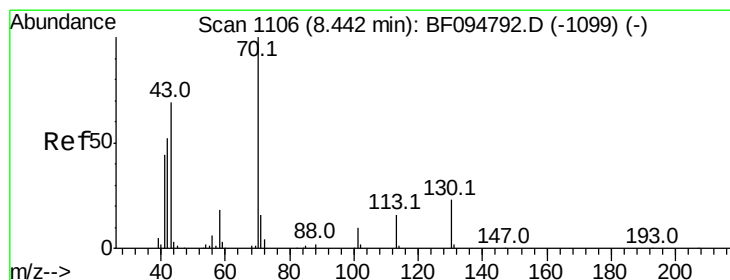
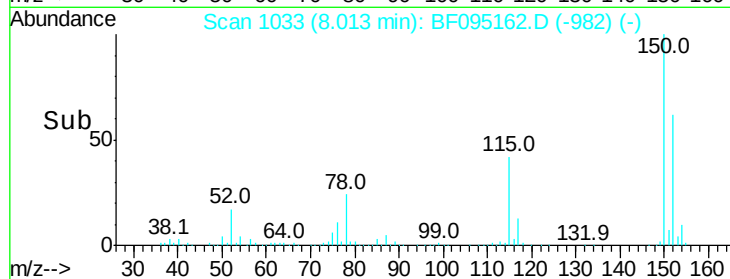
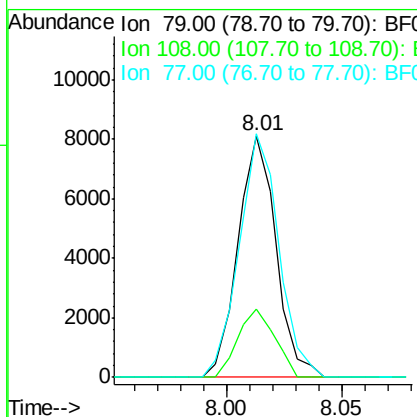
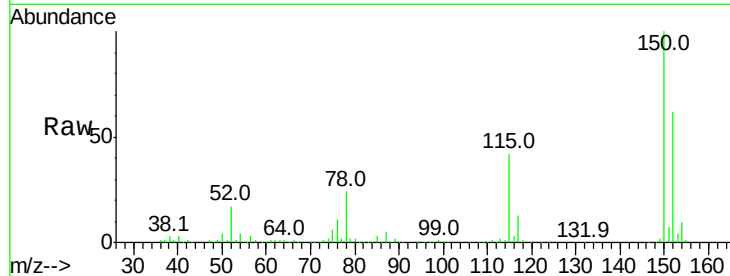




#15  
Benzyl Alcohol  
Concen: 2.08 ng  
RT: 8.01 min Scan# 1033  
Delta R.T. 0.00 min  
Lab File: BF095162.D  
Acq: 16 May 2017 18:21

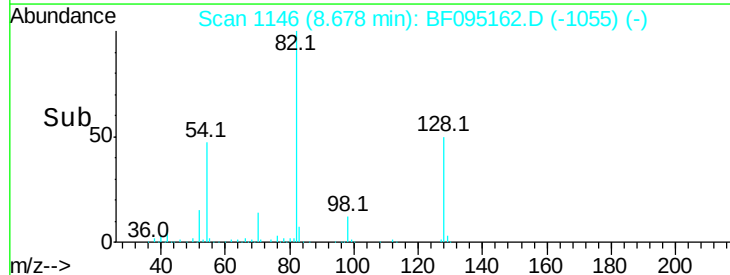
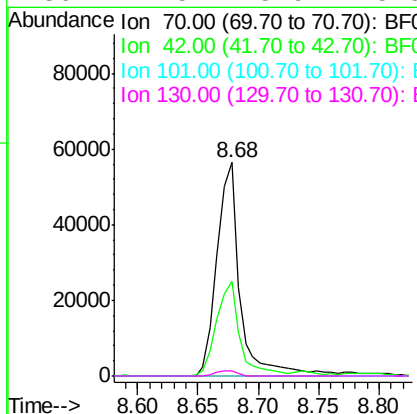
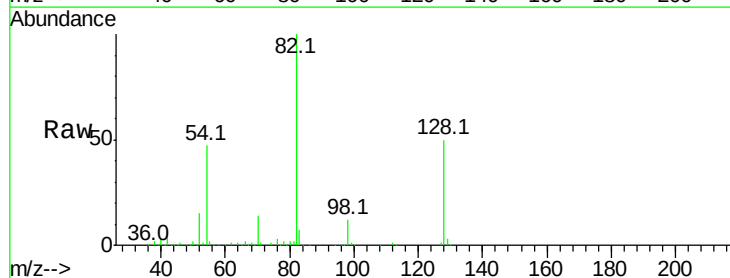
Instrument :  
BNA\_F  
ClientSampled :

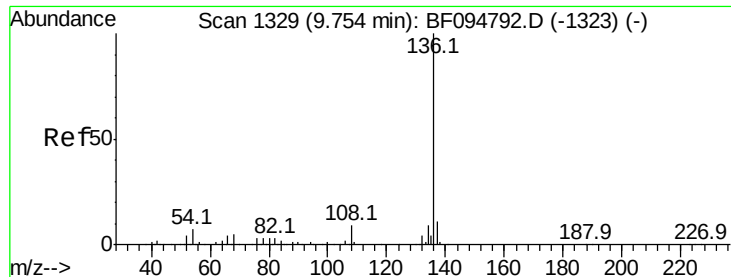
Tot Ion: 79 Resp: 9305  
Ion Ratio Lower Upper  
79 100  
108 28.1 63.4 95.0#  
77 100.7 49.2 73.8#



#19  
n-Nitroso-di-n-propylamine  
Concen: 15.92 ng  
RT: 8.68 min Scan# 1146  
Delta R.T. 0.24 min  
Lab File: BF095162.D  
Acq: 16 May 2017 18:21

Tgt Ion: 70 Resp: 74937  
Ion Ratio Lower Upper  
70 100  
42 44.3 47.2 70.8#  
101 0.0 7.2 10.8#  
130 2.5 15.9 23.9#

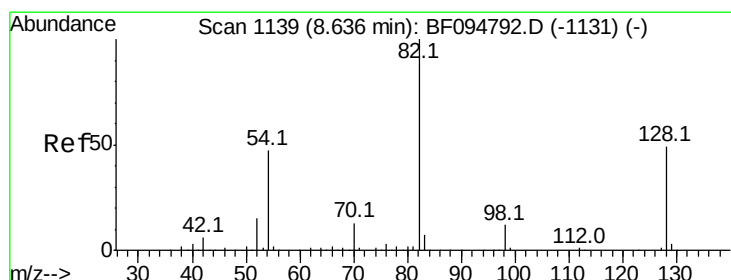
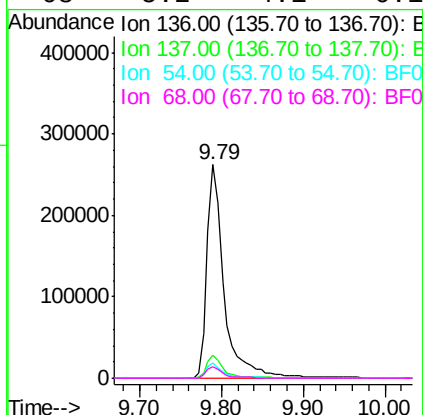
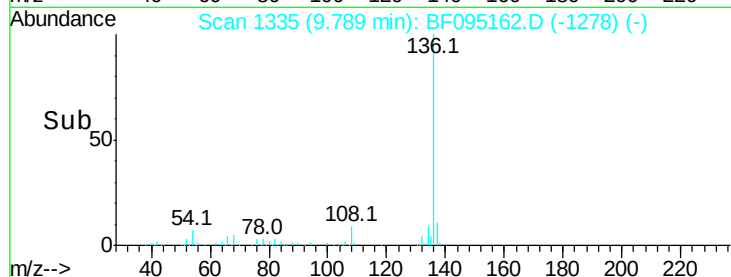
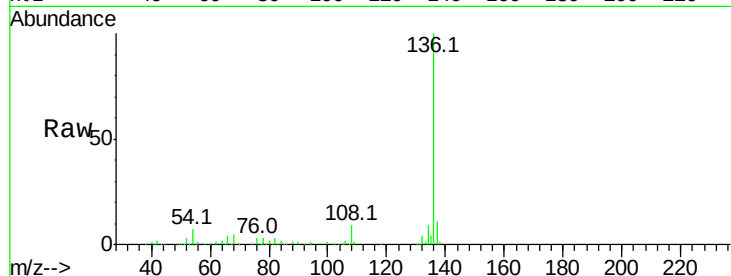




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.79 min Scan# 1335  
Delta R.T. 0.04 min  
Lab File: BF095162.D  
Acq: 16 May 2017 18:21

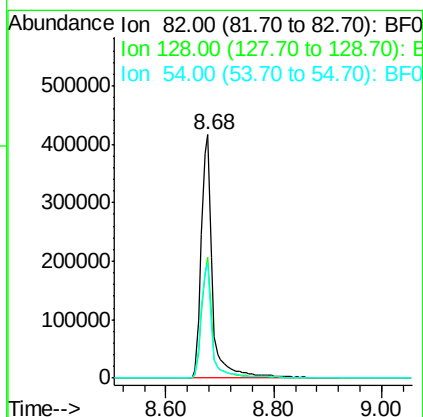
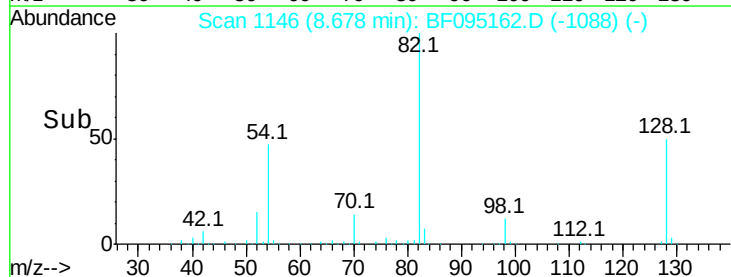
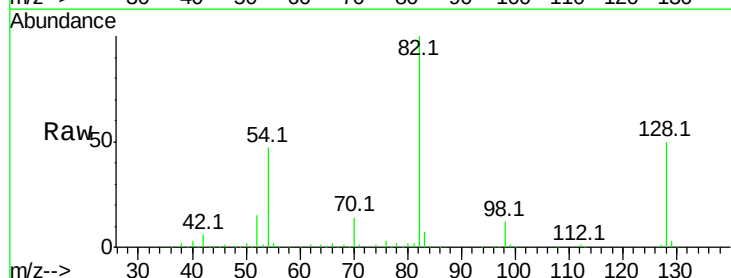
Instrument :  
BNA\_F  
ClientSampleId :

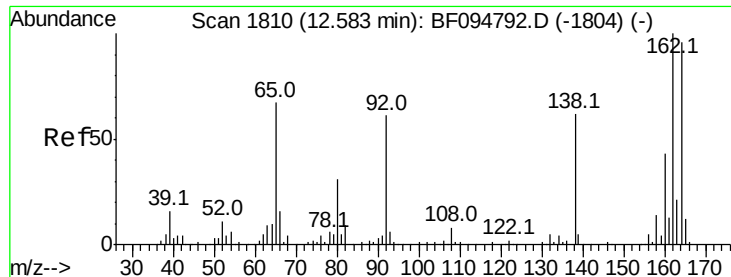
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 385633   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.7  | 8.5 12.7 |
| 54          | 7.0   | 4.9 7.3  |
| 68          | 5.2   | 4.1 6.1  |



#23  
Nitrobenzene-d5  
Concen: 98.65 ng  
RT: 8.68 min Scan# 1146  
Delta R.T. 0.04 min  
Lab File: BF095162.D  
Acq: 16 May 2017 18:21

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 603314    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 49.9  | 34.0 51.0 |
| 54          | 46.9  | 42.2 63.2 |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.62 min Scan# 1816

Delta R.T. 0.04 min

Lab File: BF095162.D

Acq: 16 May 2017 18:21

Instrument :

BNA\_F

ClientSampleId :

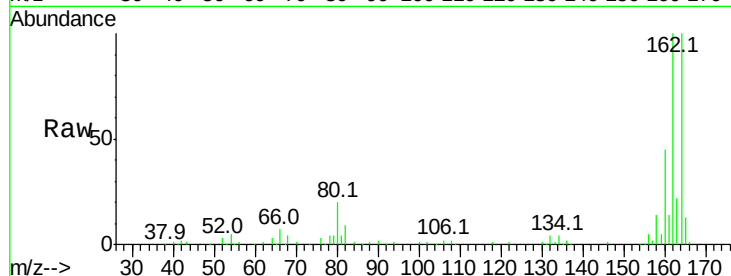
Tot Ion:164 Resp: 166371

Ion Ratio Lower Upper

164 100

162 99.8 82.6 123.8

160 45.2 36.2 54.2



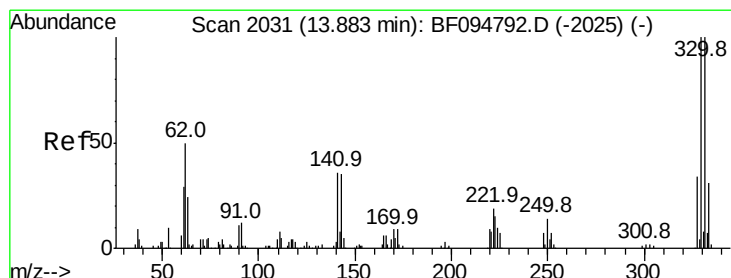
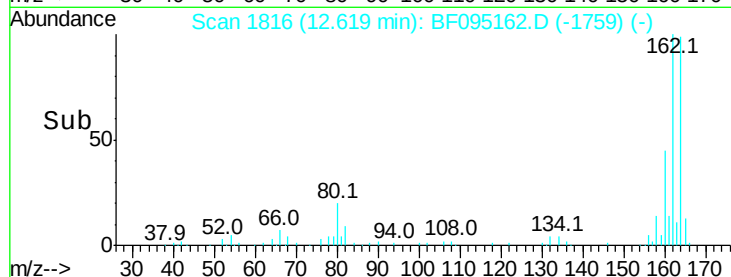
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

12.62

Time--> 12.50 12.60 12.70 12.80



#41

2,4,6-Tribromophenol

Concen: 156.62 ng

RT: 13.92 min Scan# 2037

Delta R.T. 0.04 min

Lab File: BF095162.D

Acq: 16 May 2017 18:21

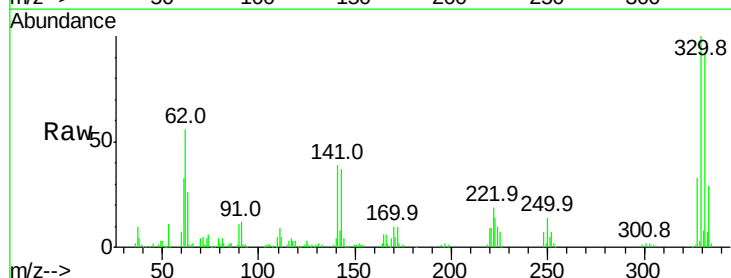
Tgt Ion:330 Resp: 213399

Ion Ratio Lower Upper

330 100

332 97.6 76.6 115.0

141 39.6 31.4 47.2



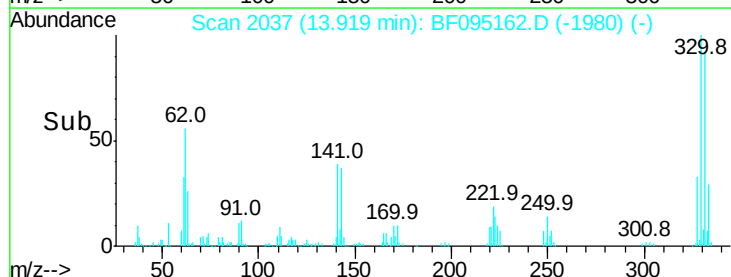
Abundance Ion 329.80 (329.50 to 330.50): E

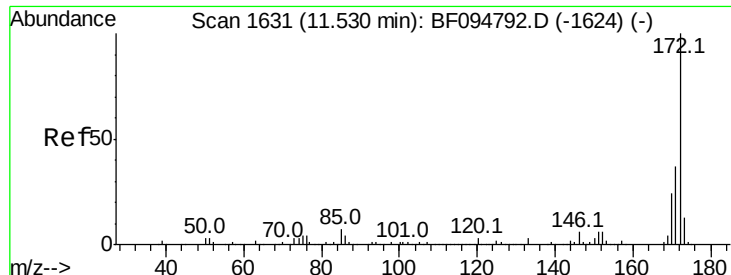
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

13.92

Time--> 13.80 13.90 14.00 14.10

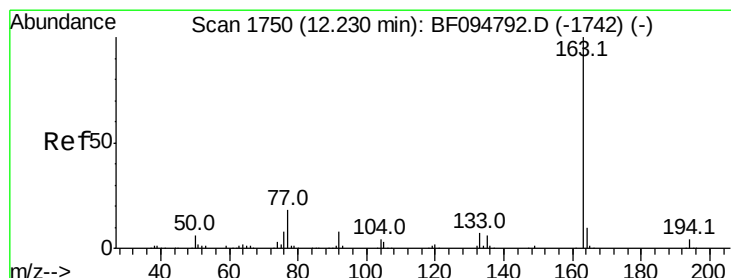
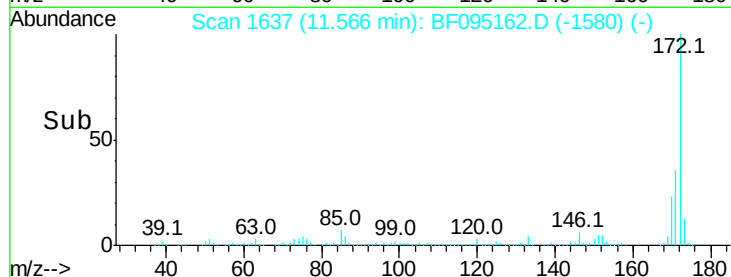
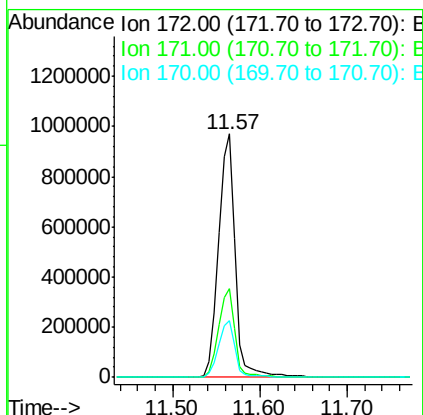
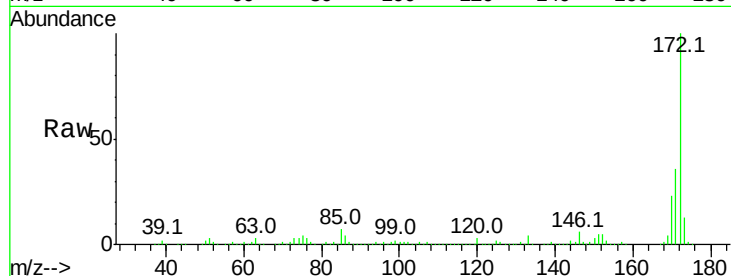




#44  
2-Fluorobiphenyl  
Concen: 112.03 ng  
RT: 11.57 min Scan# 1637  
Delta R.T. 0.04 min  
Lab File: BF095162.D  
Acq: 16 May 2017 18:21

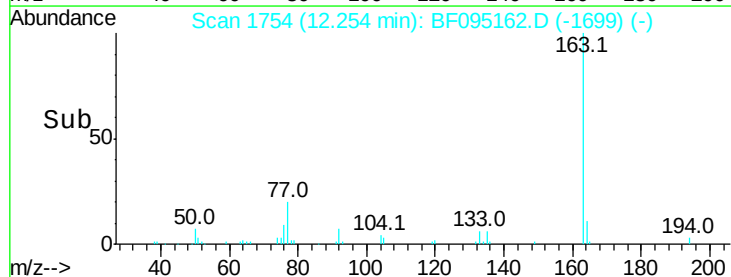
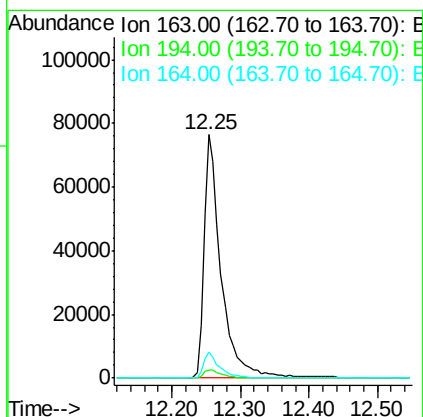
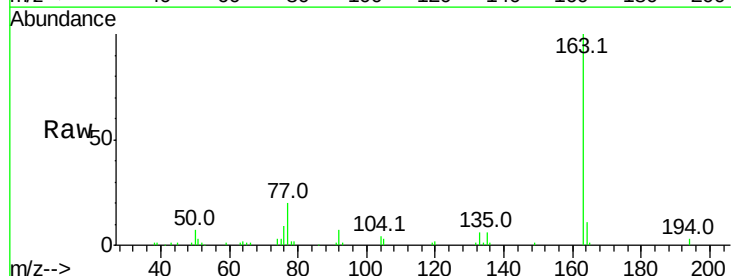
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1294958  
Ion Ratio Lower Upper  
172 100  
171 36.5 29.6 44.4  
170 23.5 19.8 29.8

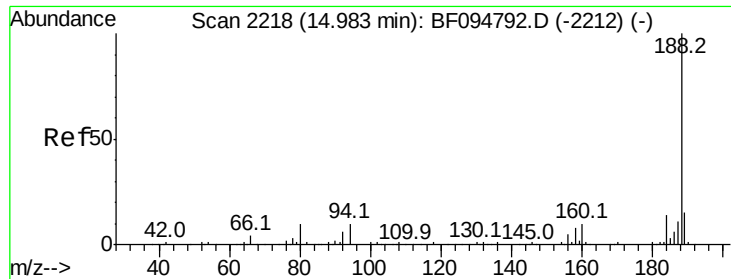


#49  
Dimethylphthalate  
Concen: 9.85 ng  
RT: 12.25 min Scan# 1754  
Delta R.T. 0.02 min  
Lab File: BF095162.D  
Acq: 16 May 2017 18:21

Tgt Ion:163 Resp: 134469  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.6 4.0  
164 10.7 8.4 12.6







#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 15.02 min Scan# 2225

Delta R.T. 0.04 min

Lab File: BF095162.D

Acq: 16 May 2017 18:21

Instrument :

BNA\_F

ClientSampleId :

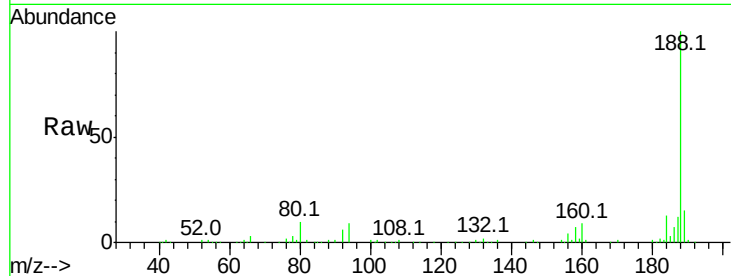
Tot Ion:188 Resp: 307326

Ion Ratio Lower Upper

188 100

94 9.3 9.4 14.2#

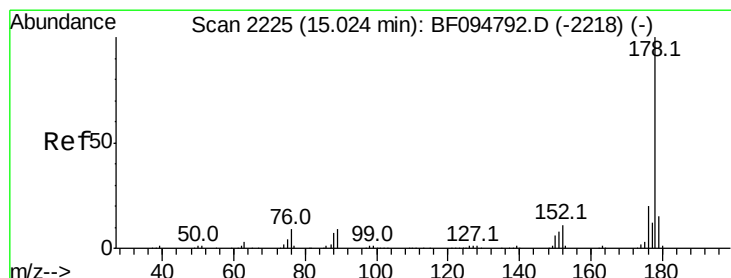
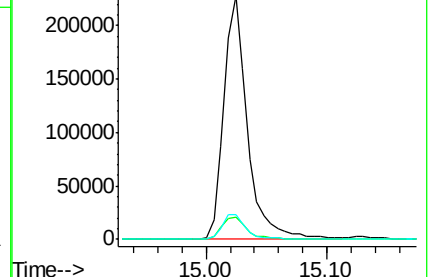
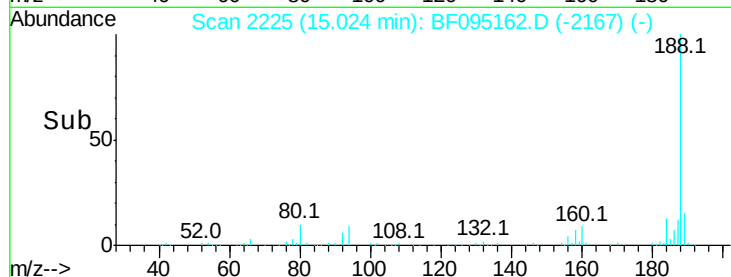
80 10.2 10.2 15.2



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: 4.94 ng

RT: 15.06 min Scan# 2231

Delta R.T. 0.04 min

Lab File: BF095162.D

Acq: 16 May 2017 18:21

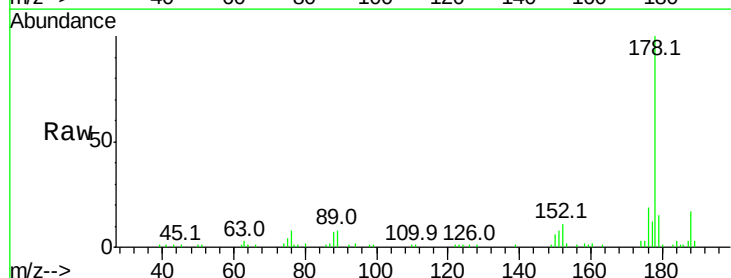
Tgt Ion:178 Resp: 87306

Ion Ratio Lower Upper

178 100

176 18.9 16.2 24.4

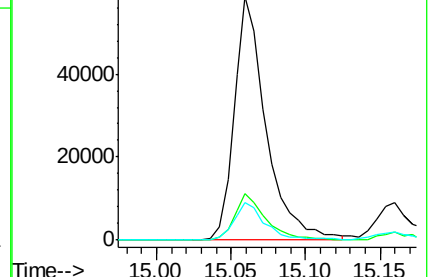
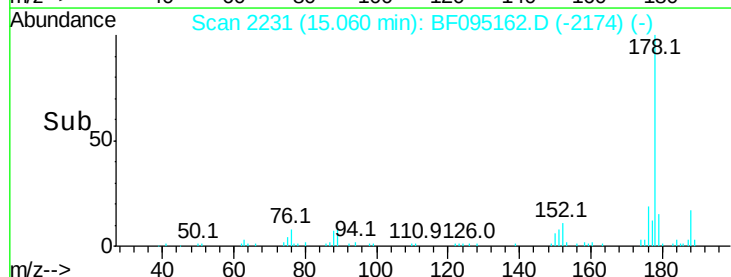
179 15.2 12.6 19.0

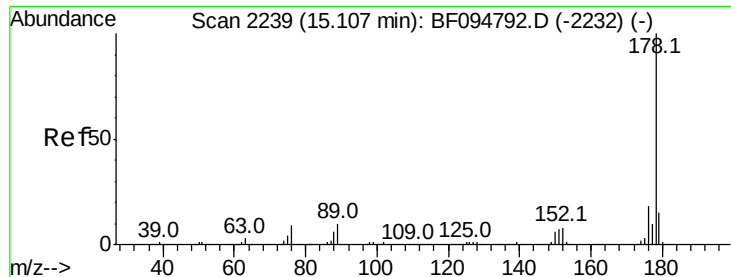


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

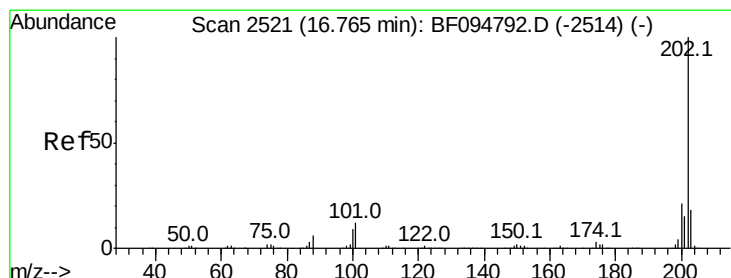
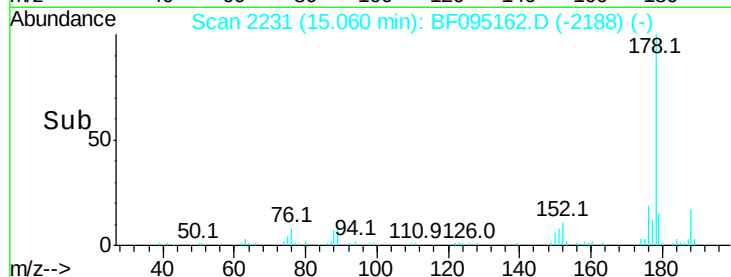
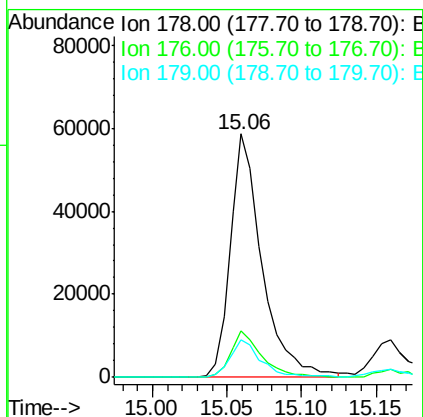
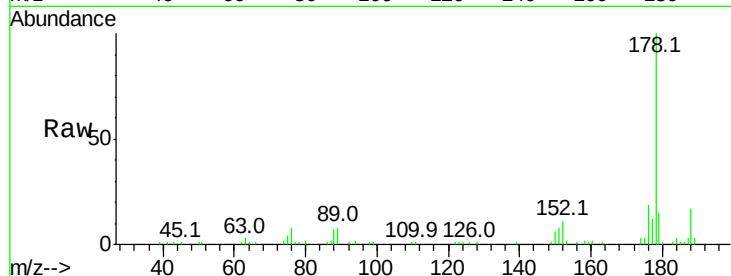




#71  
 Anthracene  
 Concen: 4.84 ng  
 RT: 15.06 min Scan# 2231  
 Delta R.T. -0.05 min  
 Lab File: BF095162.D  
 Acq: 16 May 2017 18:21

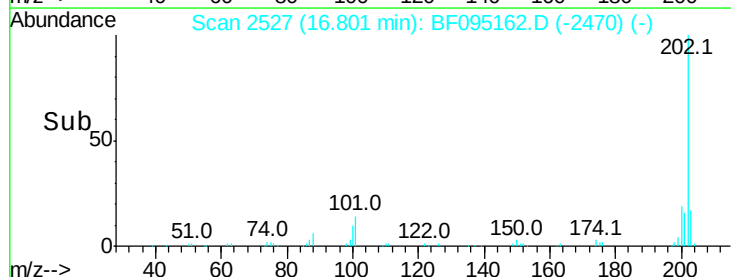
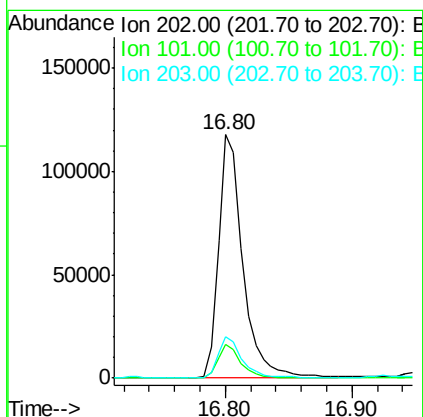
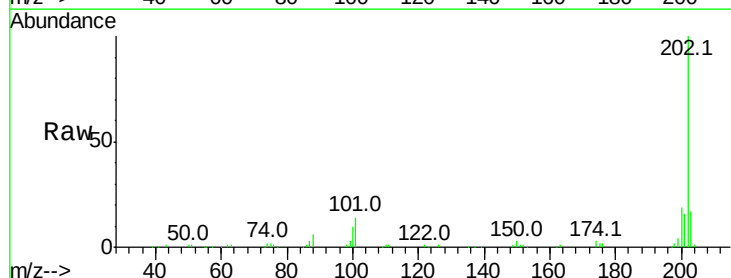
Instrument :  
 BNA\_F  
 ClientSampleId :

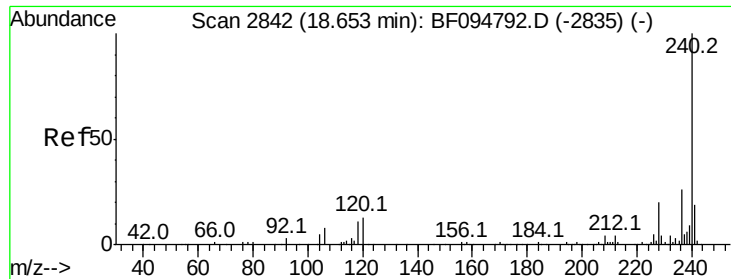
Tot Ion:178 Resp: 87306  
 Ion Ratio Lower Upper  
 178 100  
 176 18.9 15.8 23.8  
 179 15.2 12.7 19.1



#74  
 Fluoranthene  
 Concen: 8.72 ng  
 RT: 16.80 min Scan# 2527  
 Delta R.T. 0.04 min  
 Lab File: BF095162.D  
 Acq: 16 May 2017 18:21

Tgt Ion:202 Resp: 157963  
 Ion Ratio Lower Upper  
 202 100  
 101 13.9 0.0 33.2  
 203 16.8 0.0 38.1

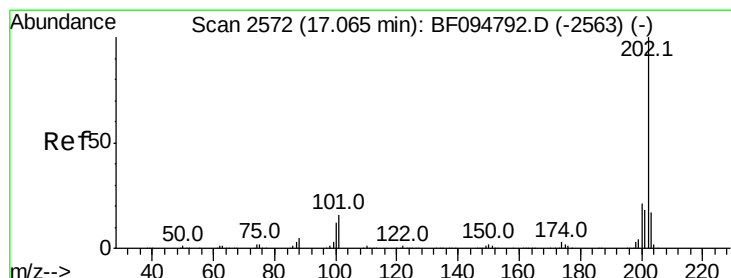
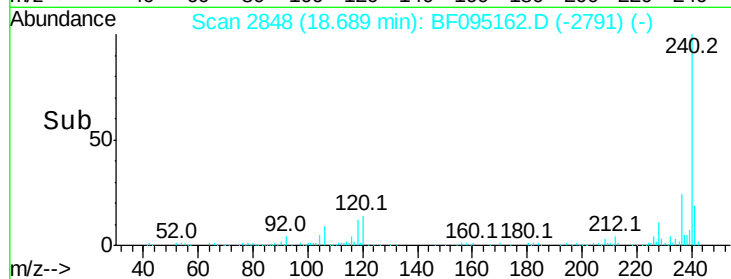
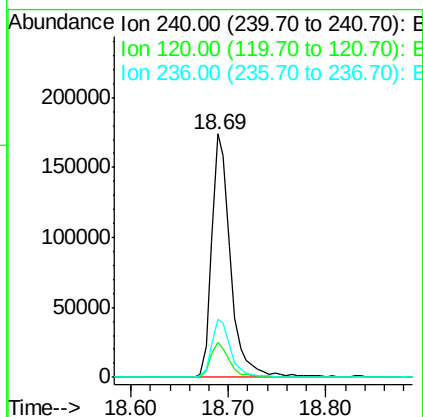
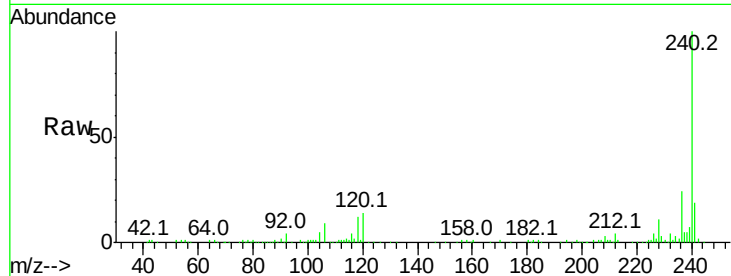




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 18.69 min Scan# 2848  
 Delta R.T. 0.04 min  
 Lab File: BF095162.D  
 Acq: 16 May 2017 18:21

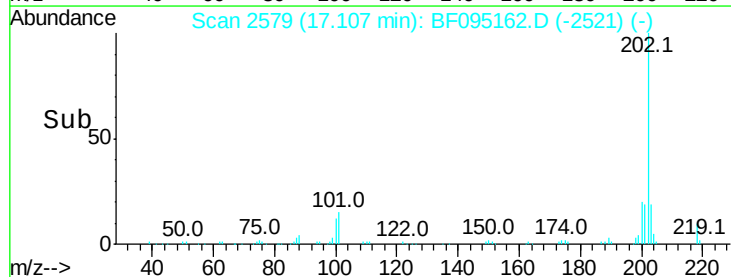
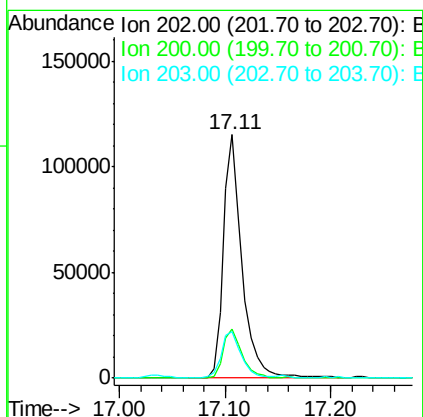
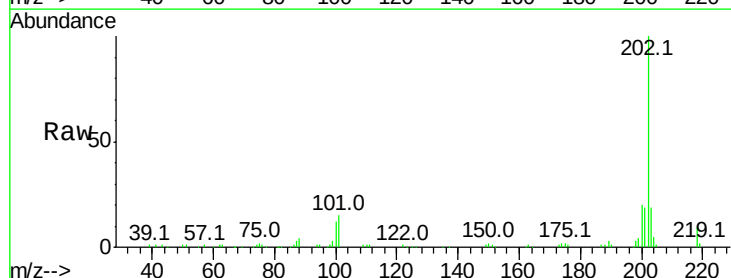
Instrument :  
 BNA\_F  
 ClientSampleId :

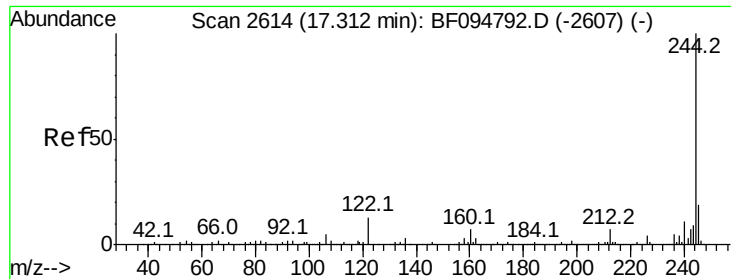
Tot Ion:240 Resp: 232341  
 Ion Ratio Lower Upper  
 240 100  
 120 14.3 5.8 8.8#  
 236 24.0 20.5 30.7



#77  
 Pyrene  
 Concen: 8.18 ng  
 RT: 17.11 min Scan# 2579  
 Delta R.T. 0.04 min  
 Lab File: BF095162.D  
 Acq: 16 May 2017 18:21

Tgt Ion:202 Resp: 142063  
 Ion Ratio Lower Upper  
 202 100  
 200 20.2 17.6 26.4  
 203 19.1 14.4 21.6

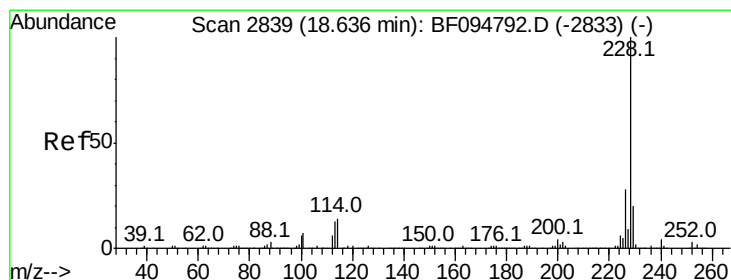
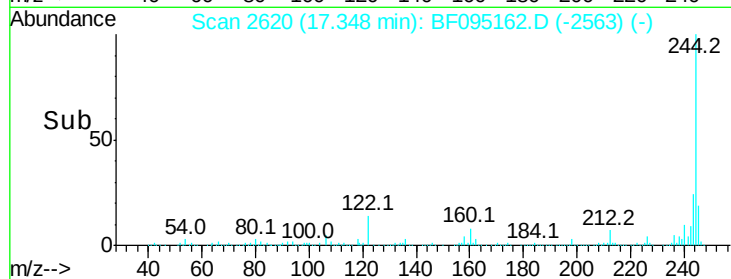
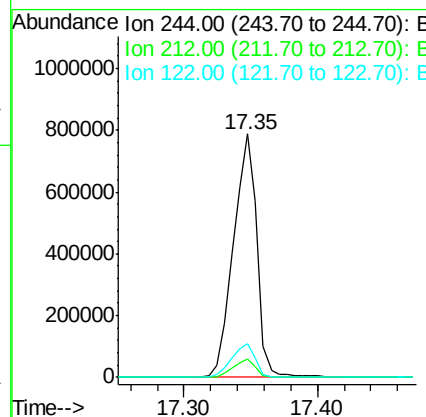
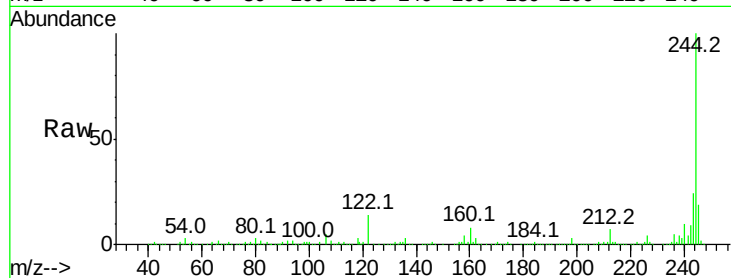




#78  
 Terphenyl-d14  
 Concen: 92.55 ng  
 RT: 17.35 min Scan# 2620  
 Delta R.T. 0.04 min  
 Lab File: BF095162.D  
 Acq: 16 May 2017 18:21

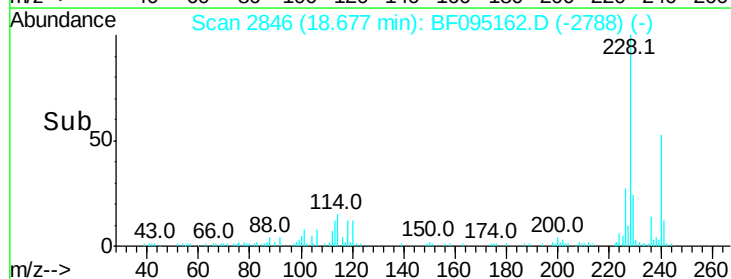
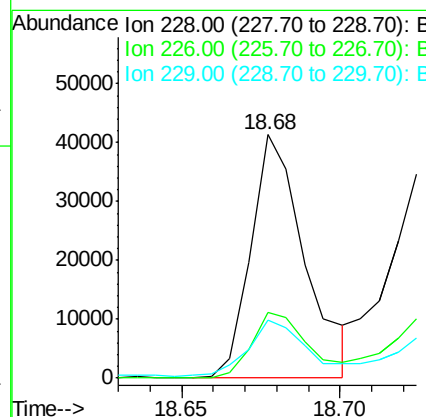
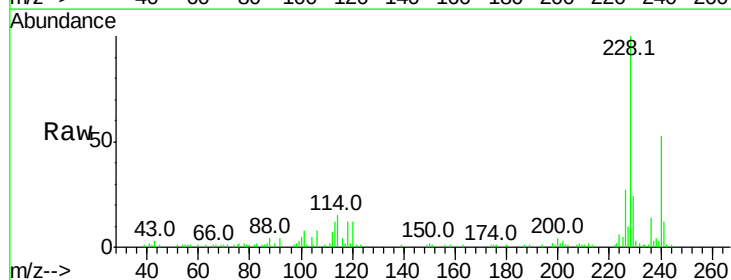
Instrument :  
 BNA\_F  
 ClientSampleId :

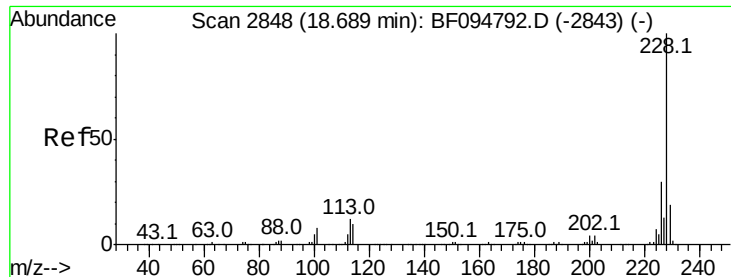
Tot Ion:244 Resp: 976250  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 6.0 9.0  
 122 13.9 10.3 15.5



#80  
 Benzo(a)anthracene  
 Concen: 3.61 ng  
 RT: 18.68 min Scan# 2846  
 Delta R.T. 0.04 min  
 Lab File: BF095162.D  
 Acq: 16 May 2017 18:21

Tgt Ion:228 Resp: 48862  
 Ion Ratio Lower Upper  
 228 100  
 226 26.8 22.6 33.8  
 229 23.9 16.3 24.5





#82

Chrysene

Concen: 4.34 ng

RT: 18.72 min Scan# 2854

Delta R.T. 0.04 min

Lab File: BF095162.D

Acq: 16 May 2017 18:21

Instrument :

BNA\_F

ClientSampleId :

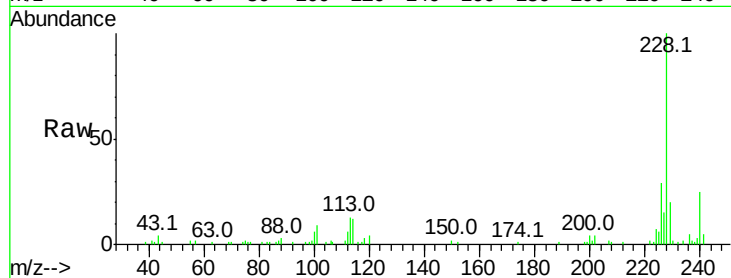
Tot Ion:228 Resp: 56695

Ion Ratio Lower Upper

228 100

226 28.7 24.9 37.3

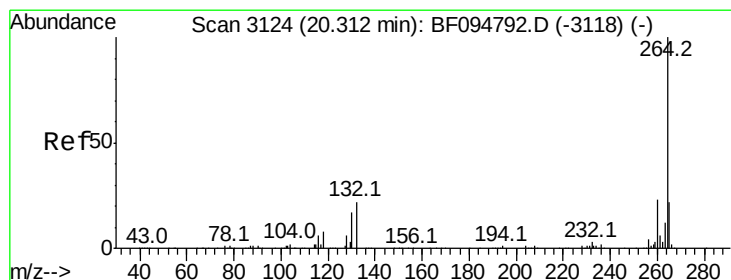
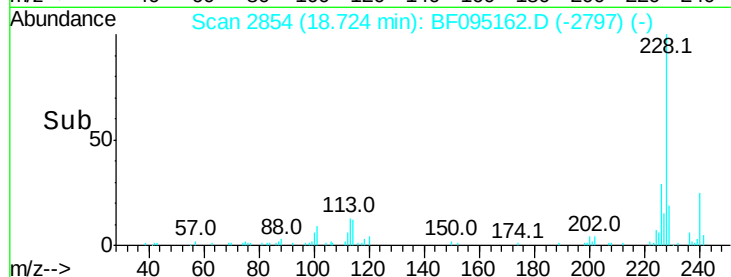
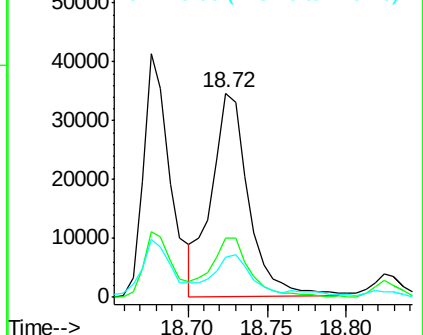
229 19.8 15.8 23.6



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: 20.37 min Scan# 3133

Delta R.T. 0.05 min

Lab File: BF095162.D

Acq: 16 May 2017 18:21

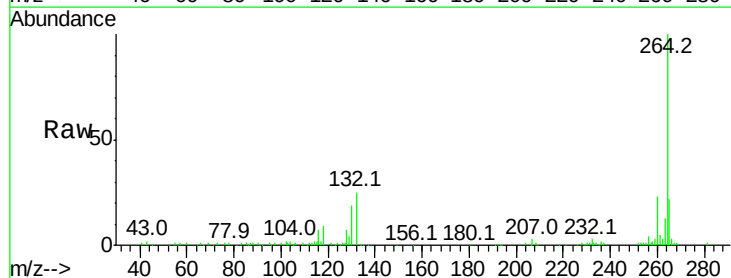
Tgt Ion:264 Resp: 144426

Ion Ratio Lower Upper

264 100

260 22.7 19.5 29.3

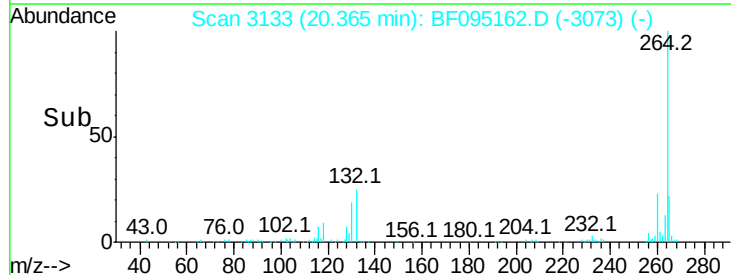
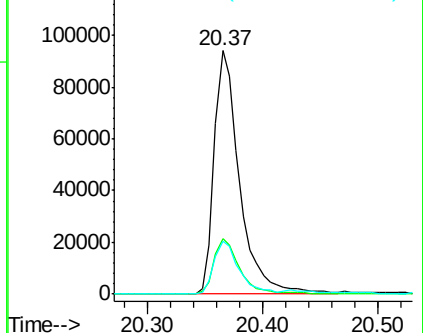
265 21.7 17.2 25.8

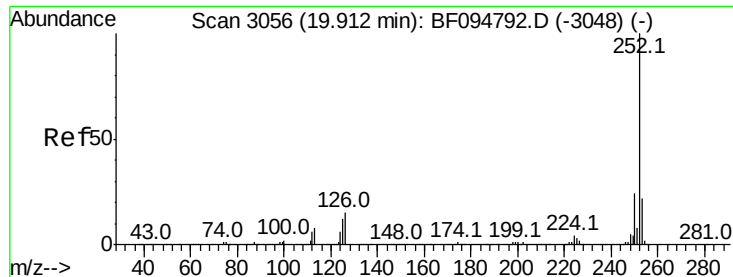


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

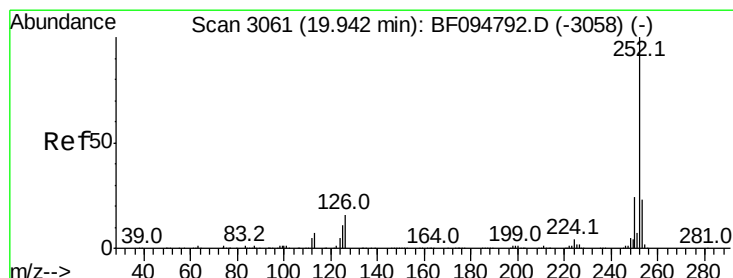
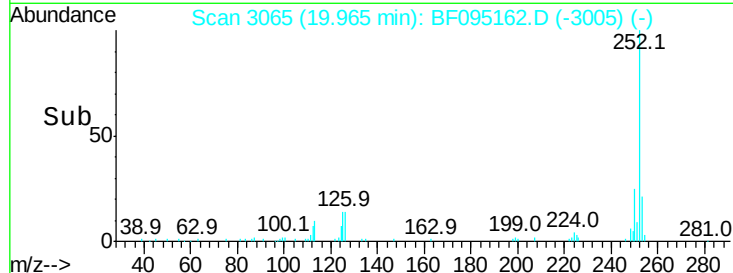
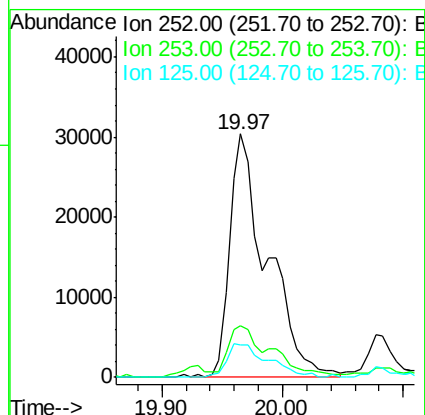
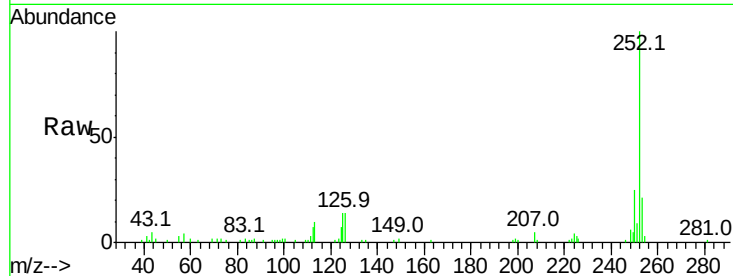




#87  
Benzo(b)fluoranthene  
Concen: 7.35 ng  
RT: 19.97 min Scan# 3065  
Delta R.T. 0.05 min  
Lab File: BF095162.D  
Acq: 16 May 2017 18:21

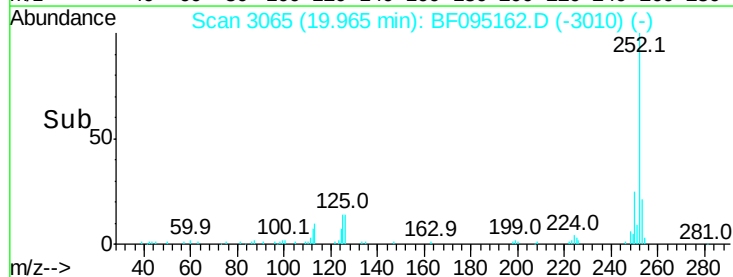
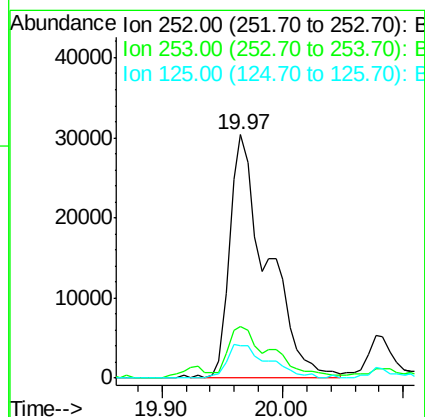
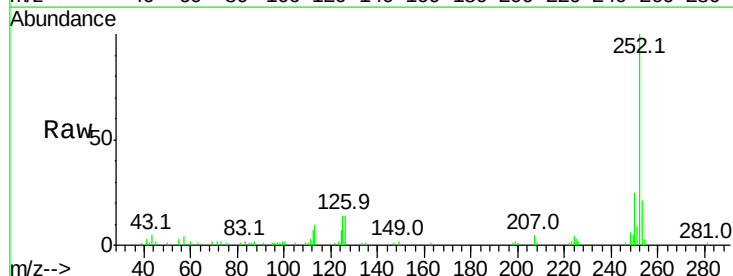
Instrument :  
BNA\_F  
ClientSampleId :

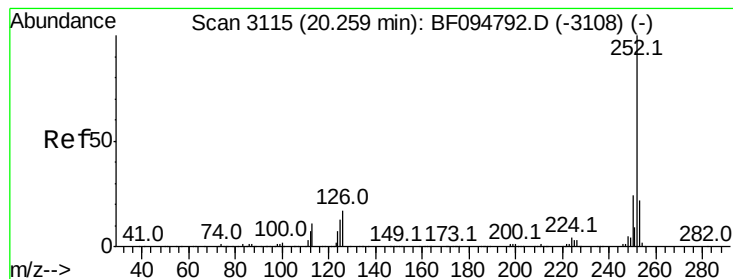
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.1  | 18.1  | 27.1  |
| 125     | 13.5  | 9.8   | 14.8  |



#88  
Benzo(k)fluoranthene  
Concen: 7.62 ng  
RT: 19.97 min Scan# 3065  
Delta R.T. 0.02 min  
Lab File: BF095162.D  
Acq: 16 May 2017 18:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.1  | 18.4  | 27.6  |
| 125     | 13.5  | 13.1  | 19.7  |





#89

Benzo(a)pyrene

Concen: 4.02 ng

RT: 20.31 min Scan# 3124

Delta R.T. 0.05 min

Lab File: BF095162.D

Acq: 16 May 2017 18:21

Instrument :

BNA\_F

ClientSampleId :

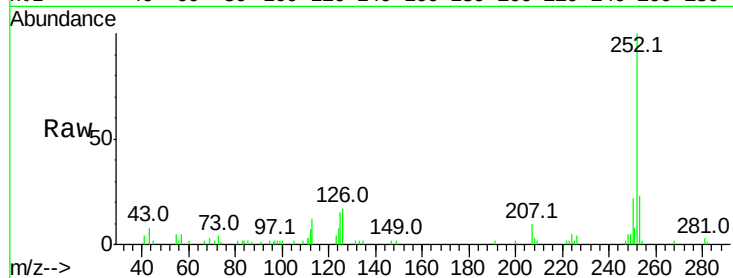
Tot Ion:252 Resp: 33082

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

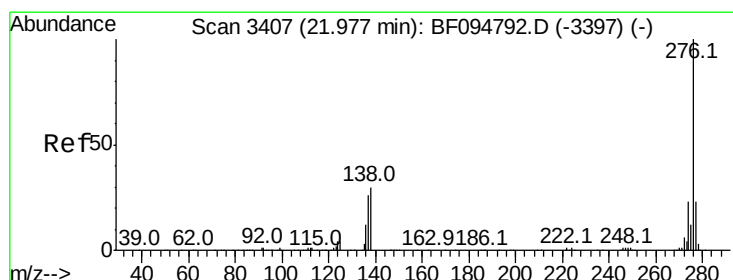
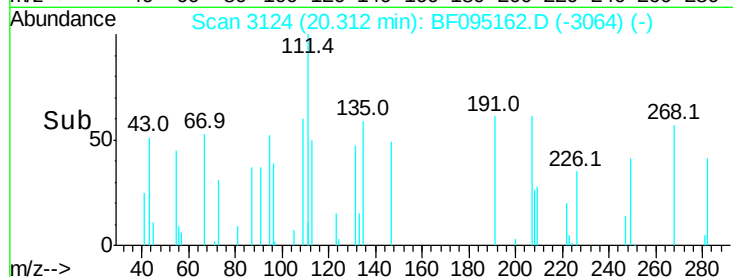
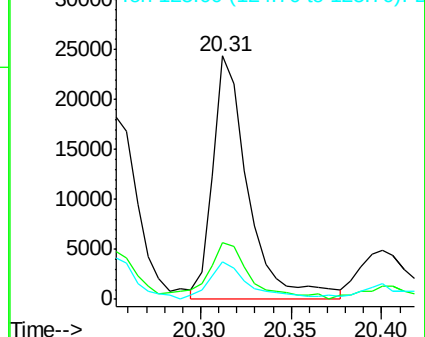
125 15.3 11.0 16.4



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(g,h,i)perylene

Concen: 3.18 ng

RT: 22.11 min Scan# 3429

Delta R.T. 0.13 min

Lab File: BF095162.D

Acq: 16 May 2017 18:21

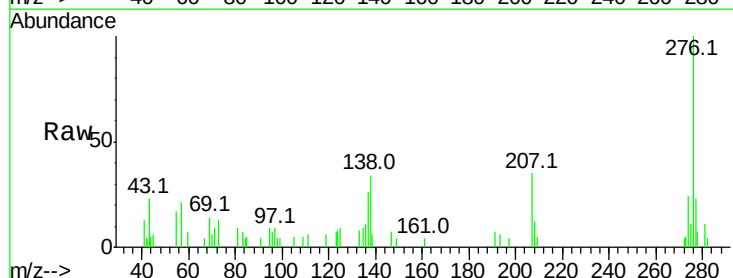
Tgt Ion:276 Resp: 21208

Ion Ratio Lower Upper

276 100

277 23.1 18.6 28.0

138 33.7 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

