

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092617\  
 Data File : BF098832.D  
 Acq On : 26 Sep 2017 15:12  
 Operator : SJ/JU  
 Sample : I5363-01 10X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 27 00:45:46 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 23 13:50:58 2017  
 Response via : Initial Calibration

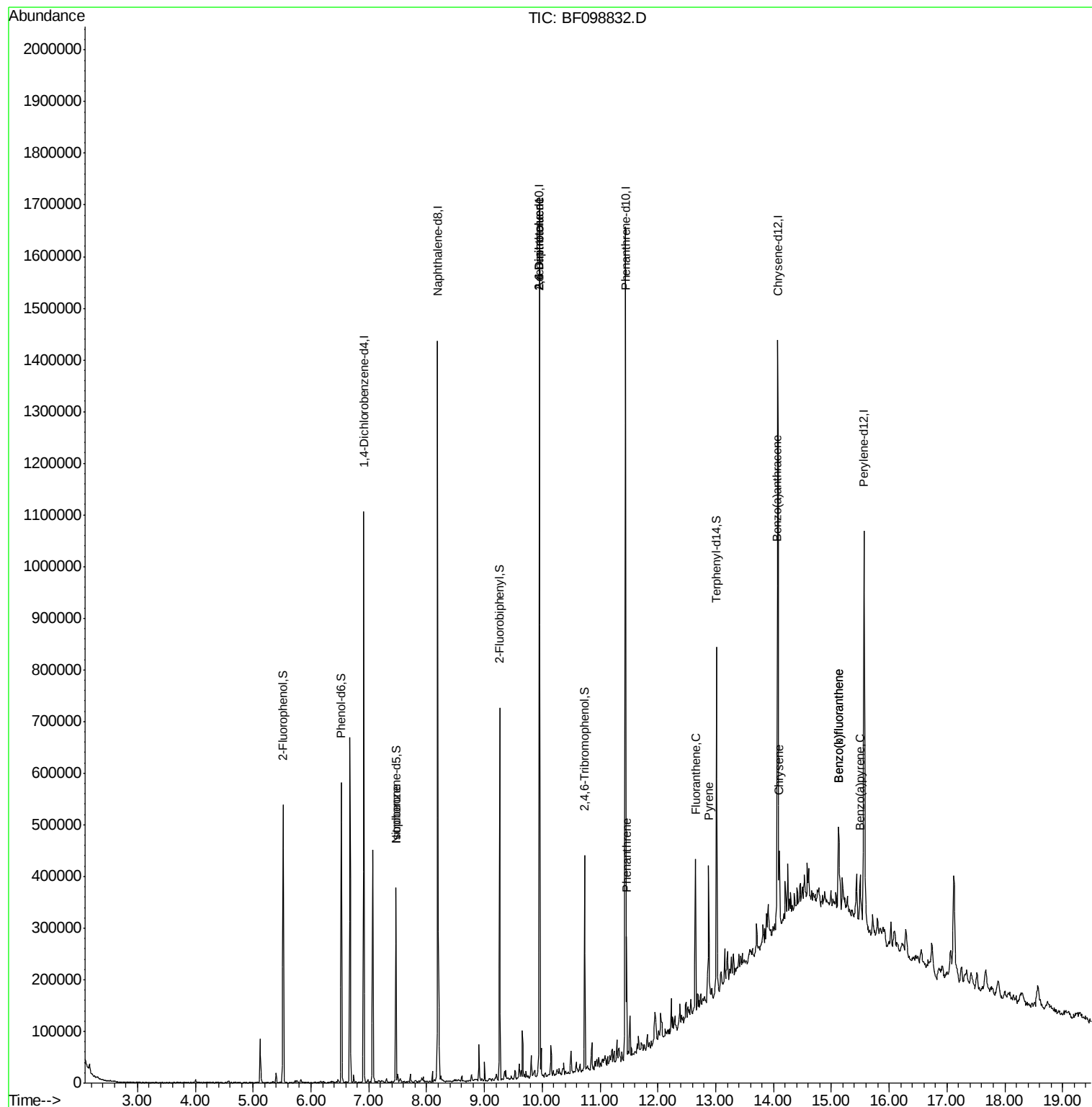
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.91  | 152  | 155918   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.19  | 136  | 658897   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.95  | 164  | 296810   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.44 | 188  | 518659   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.07 | 240  | 354371   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 15.57 | 264  | 344353   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.52  | 112  | 143316   | 14.63 | ng    | -0.02    |
| 7) Phenol-d6                | 6.52  | 99   | 179109   | 14.82 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.47  | 82   | 104219   | 10.14 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.73 | 330  | 34292    | 14.12 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.26  | 172  | 216389   | 12.17 | ng    | -0.02    |
| 78) Terphenyl-d14           | 13.02 | 244  | 179265   | 11.50 | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.47  | 82   | 104217   | 4.91  | ng    | # 64     |
| 50) 2,6-Dinitrotoluene      | 9.95  | 165  | 39253    | 8.05  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene      | 9.95  | 165  | 39253    | 6.20  | ng    | # 24     |
| 70) Phenanthrene            | 11.46 | 178  | 75312    | 2.71  | ng    | 97       |
| 74) Fluoranthene            | 12.65 | 202  | 118255   | 4.21  | ng    | 95       |
| 77) Pyrene                  | 12.88 | 202  | 102252   | 3.78  | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.06 | 228  | 52263    | 2.44  | ng    | 94       |
| 82) Chrysene                | 14.10 | 228  | 56015    | 2.74  | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 15.13 | 252  | 100244   | 4.73  | ng    | # 90     |
| 88) Benzo(k)fluoranthene    | 15.13 | 252  | 100244   | 4.79  | ng    | # 93     |
| 89) Benzo(a)pyrene          | 15.50 | 252  | 42352    | 2.18  | ng    | # 83     |

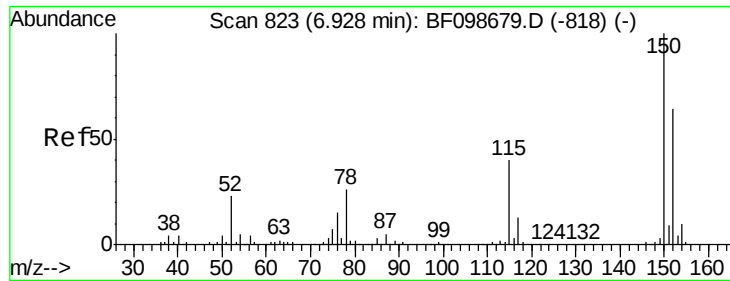
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.91 min Scan# 820

Delta R.T. -0.01 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

Instrument :

BNA\_F

ClientSampleId :

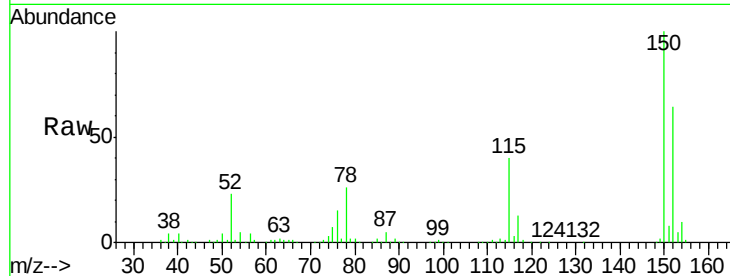
Tot Ion:152 Resp: 155918

Ion Ratio Lower Upper

152 100

150 156.1 124.6 186.8

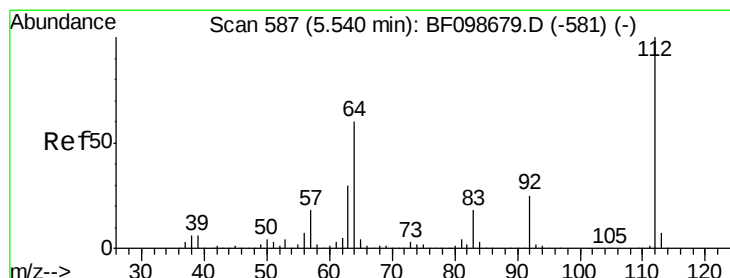
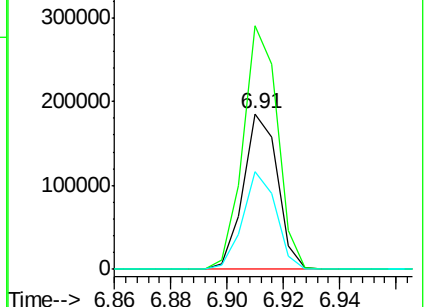
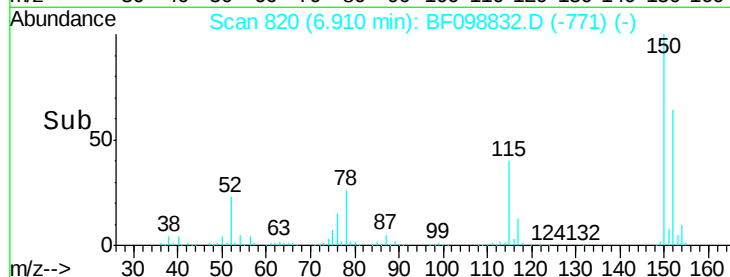
115 62.9 50.1 75.1



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: 14.63 ng

RT: 5.52 min Scan# 583

Delta R.T. -0.02 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

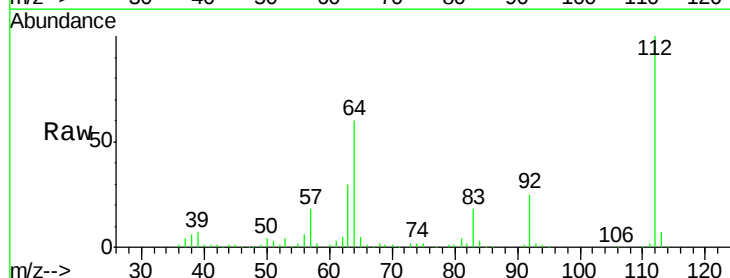
Tgt Ion:112 Resp: 143316

Ion Ratio Lower Upper

112 100

64 59.9 47.9 71.9

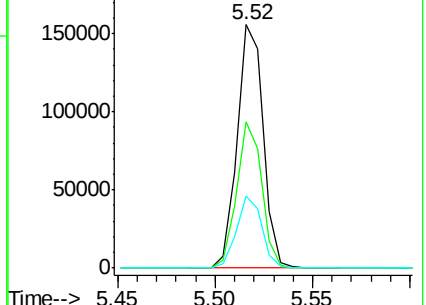
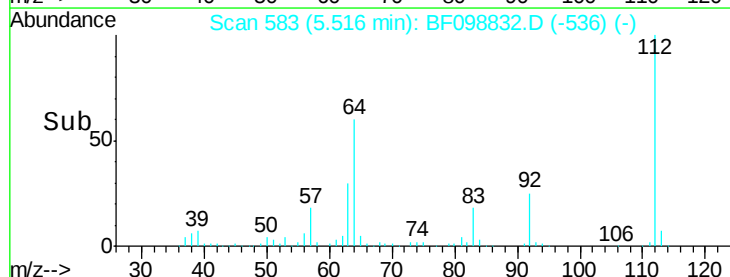
63 29.8 23.7 35.5

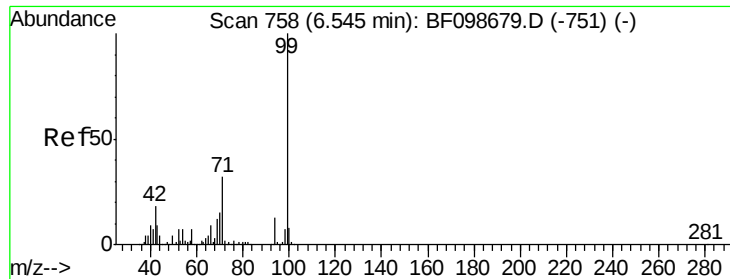


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 14.82 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.02 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

Instrument :

BNA\_F

ClientSampled :

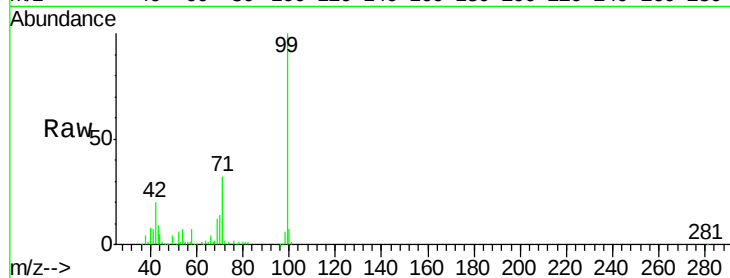
Tot Ion: 99 Resp: 179109

Ion Ratio Lower Upper

99 100

42 19.6 14.5 21.7

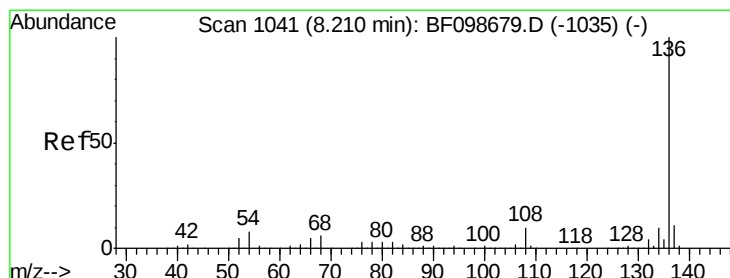
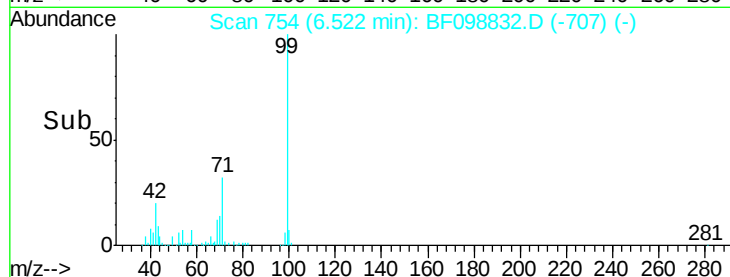
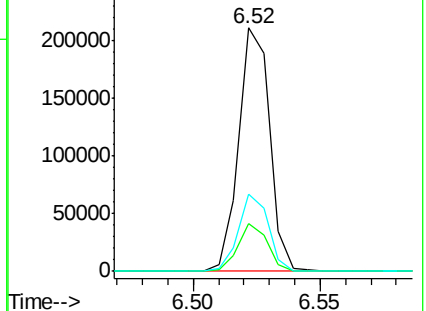
71 31.9 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.19 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

Tgt Ion: 136 Resp: 658897

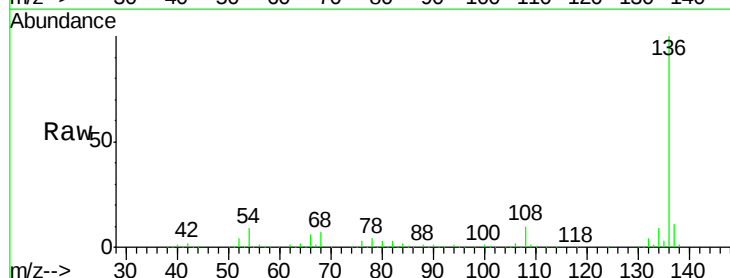
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 8.6 6.6 9.8

68 6.6 5.0 7.4

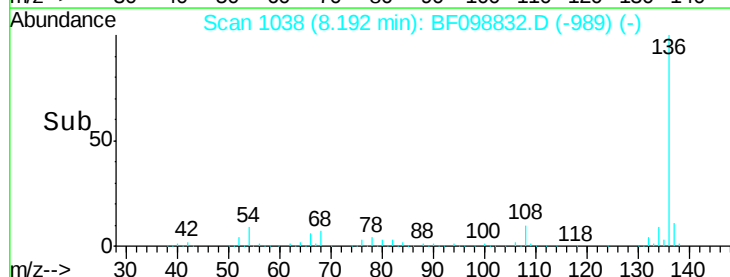
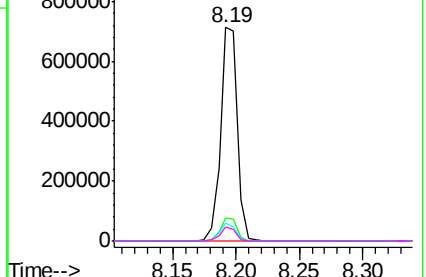


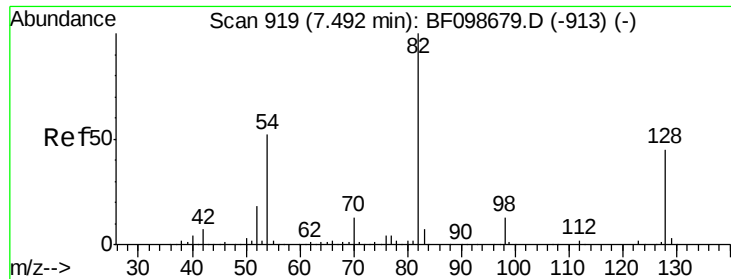
Abundance Ion 136.00 (135.70 to 136.70): E

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

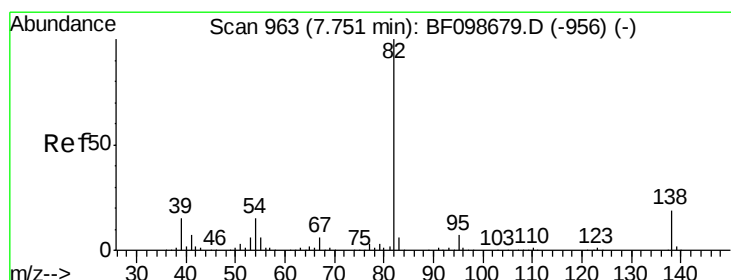
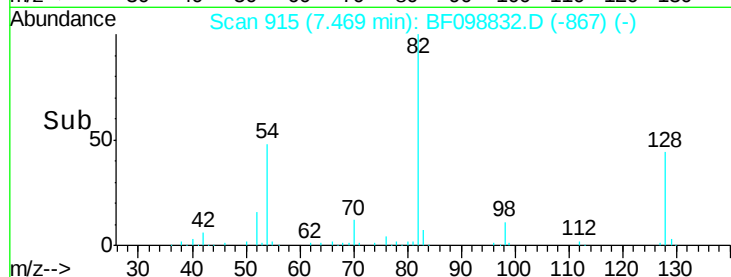
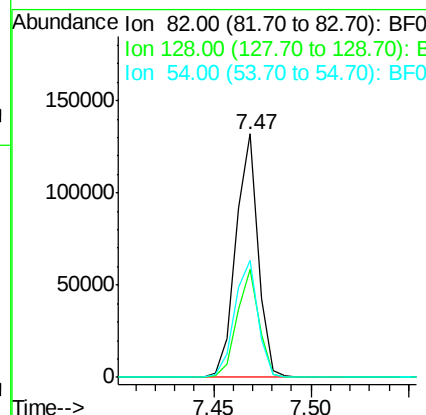
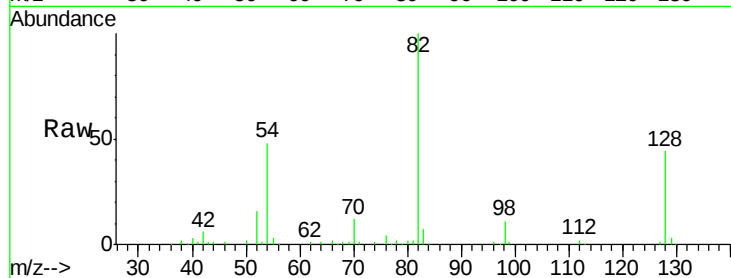




#23  
 Nitrobenzene-d5  
 Concen: 10.14 ng  
 RT: 7.47 min Scan# 915  
 Delta R.T. -0.02 min  
 Lab File: BF098832.D  
 Acq: 26 Sep 2017 15:12

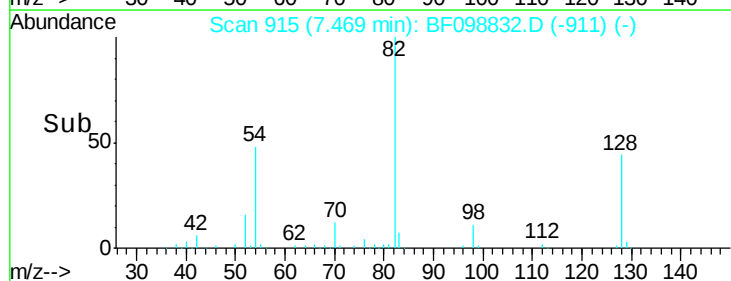
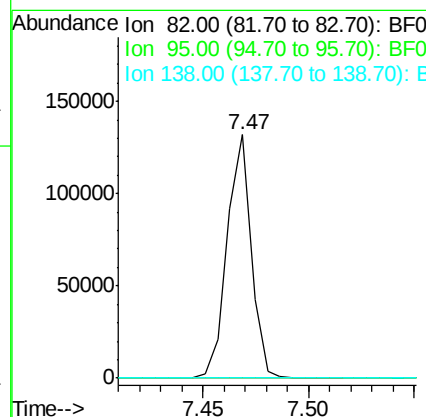
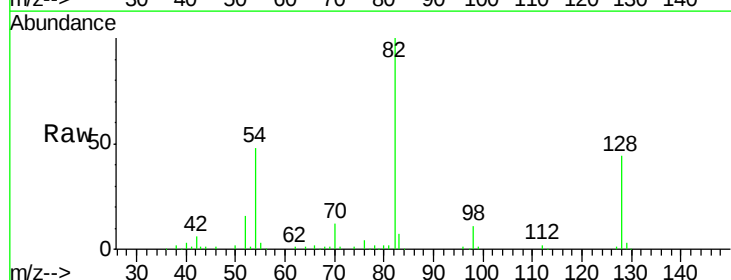
Instrument :  
 BNA\_F  
 ClientSampled :

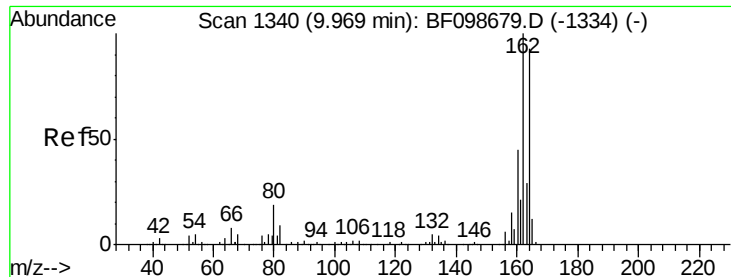
| Tot Ion   | 82    | Resp  | 104219 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 44.1  | 36.1  | 54.1   |
| 54        | 48.3  | 41.4  | 62.2   |



#25  
 Isophorone  
 Concen: 4.91 ng  
 RT: 7.47 min Scan# 915  
 Delta R.T. -0.28 min  
 Lab File: BF098832.D  
 Acq: 26 Sep 2017 15:12

| Tgt Ion   | 82    | Resp  | 104217 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.2   | 7.8#   |
| 138       | 0.0   | 14.9  | 22.3#  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

Instrument :

BNA\_F

ClientSampleId :

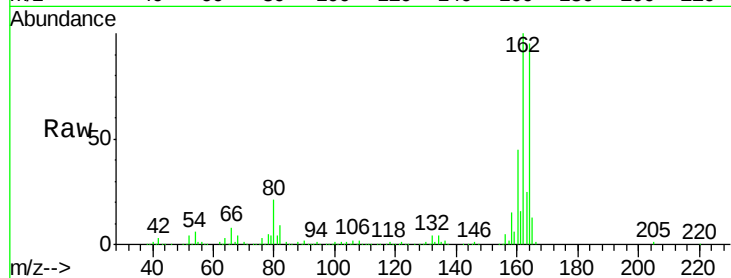
Tot Ion:164 Resp: 296810

Ion Ratio Lower Upper

164 100

162 104.8 86.1 129.1

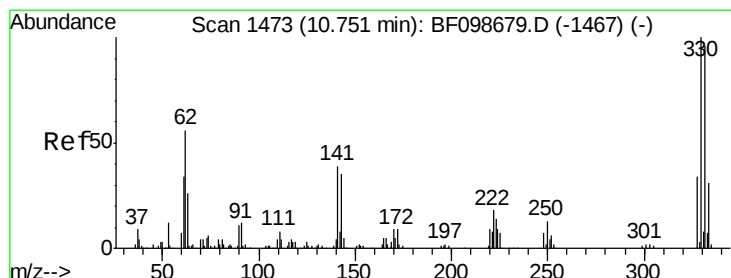
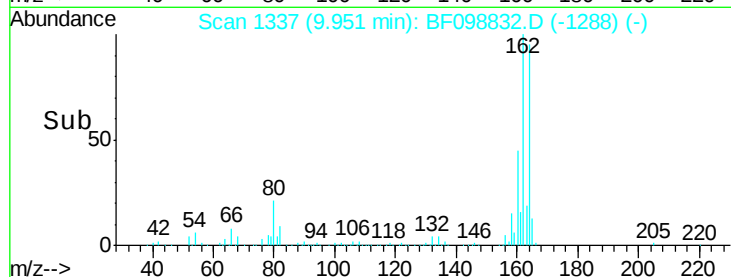
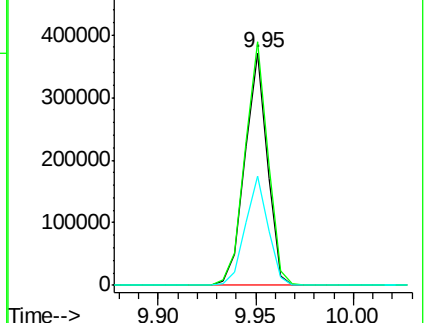
160 46.9 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 14.12 ng

RT: 10.73 min Scan# 1470

Delta R.T. -0.02 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

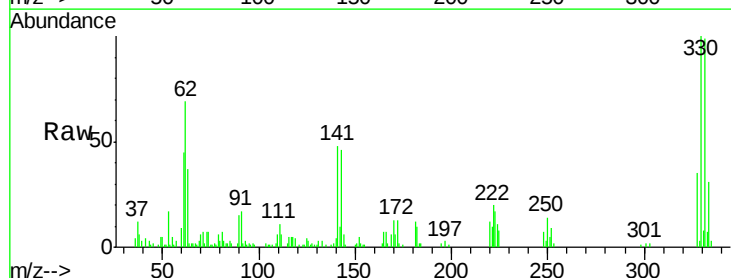
Tgt Ion:330 Resp: 34292

Ion Ratio Lower Upper

330 100

332 96.8 77.0 115.6

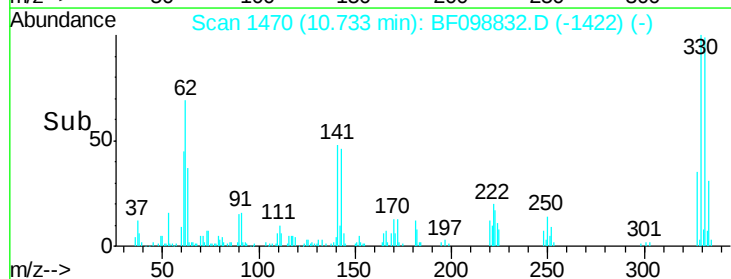
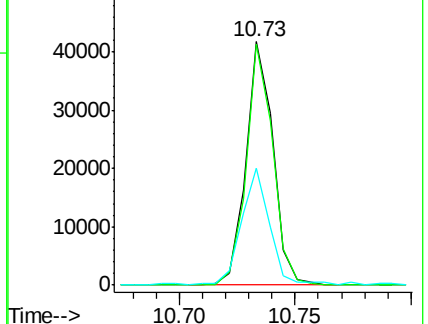
141 50.1 29.9 44.9#

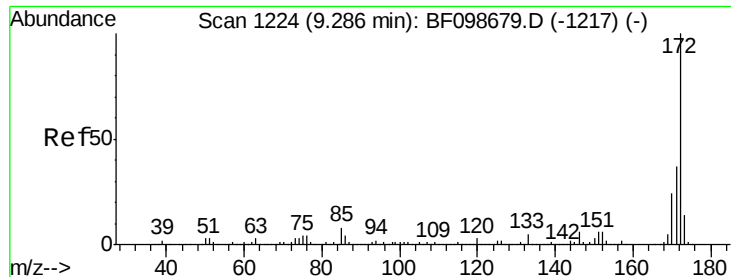


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

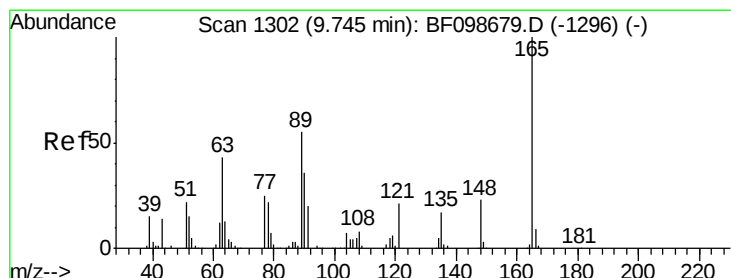
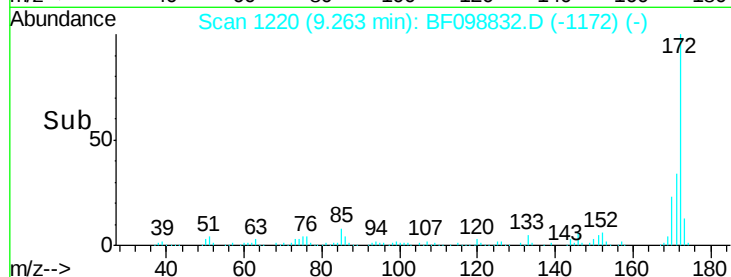
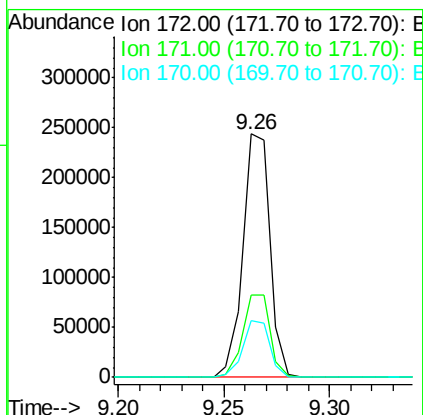
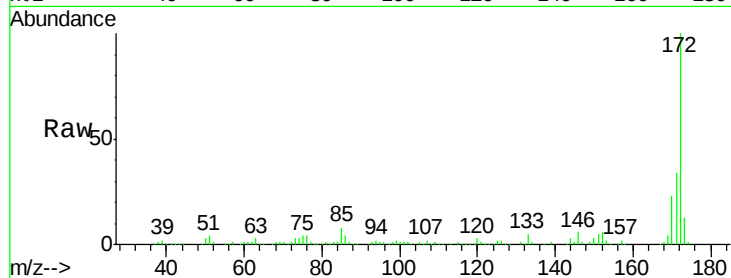




#44  
 2-Fluorobiphenyl  
 Concen: 12.17 ng  
 RT: 9.26 min Scan# 1220  
 Delta R.T. -0.02 min  
 Lab File: BF098832.D  
 Acq: 26 Sep 2017 15:12

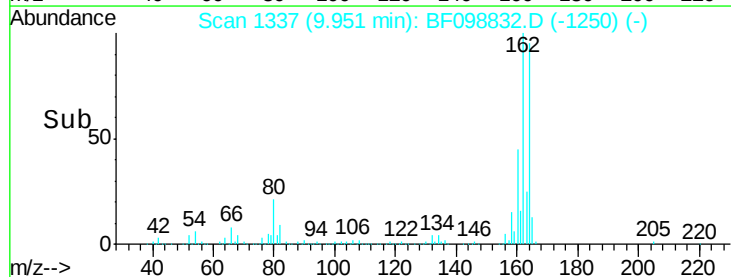
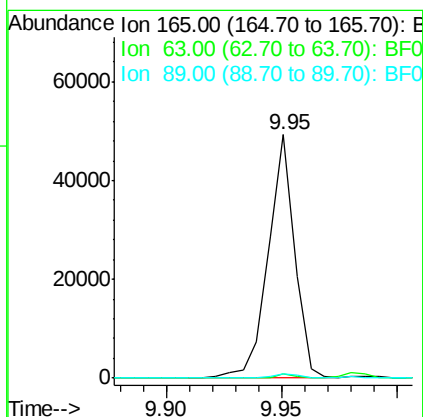
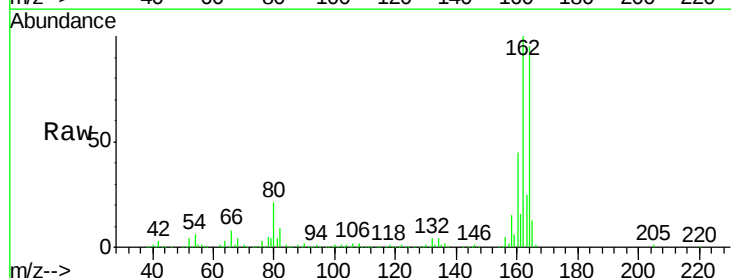
Instrument :  
 BNA\_F  
 ClientSampleId :

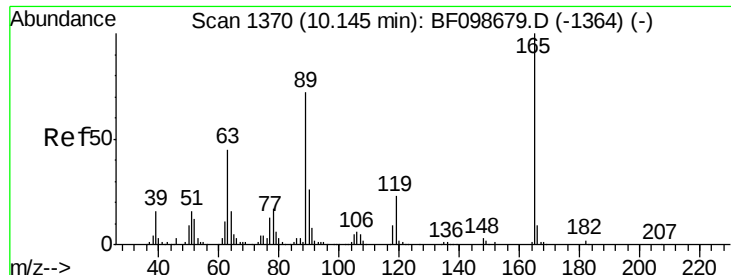
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.9  | 29.7  | 44.5  |
| 170     | 23.3  | 19.6  | 29.4  |



#50  
 2,6-Dinitrotoluene  
 Concen: 8.05 ng  
 RT: 9.95 min Scan# 1337  
 Delta R.T. 0.21 min  
 Lab File: BF098832.D  
 Acq: 26 Sep 2017 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.9   | 44.7  | 67.1# |
| 89      | 1.7   | 44.0  | 66.0# |

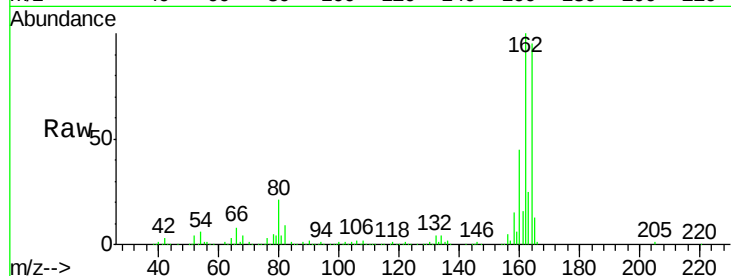




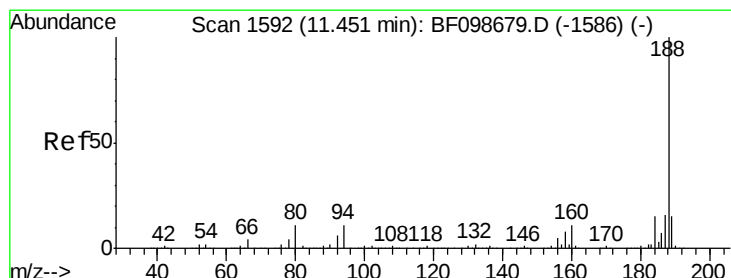
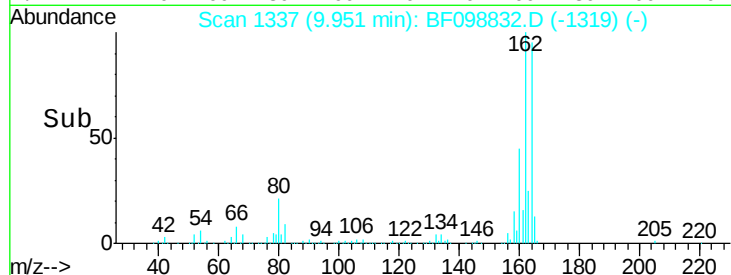
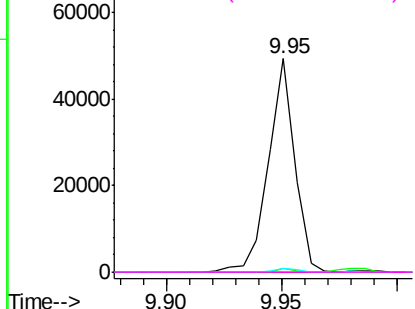
#56  
 2,4-Dinitrotoluene  
 Concen: 6.20 ng  
 RT: 9.95 min Scan# 1337  
 Delta R.T. -0.19 min  
 Lab File: BF098832.D  
 Acq: 26 Sep 2017 15:12

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 39253  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 36.4 54.6#  
 89 1.7 57.8 86.6#  
 182 0.0 1.6 2.4#

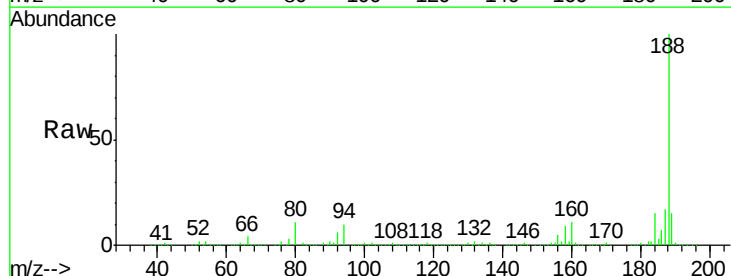


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

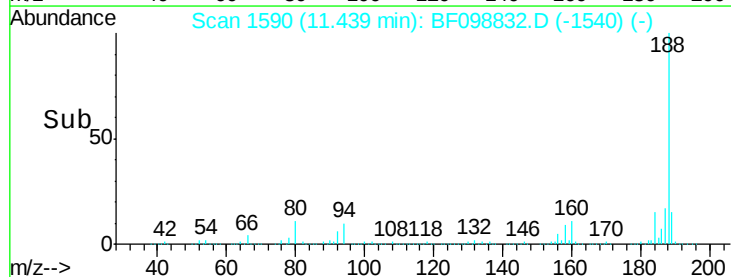
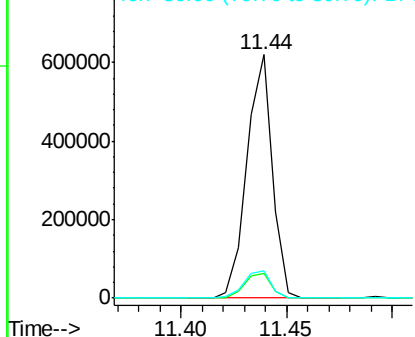


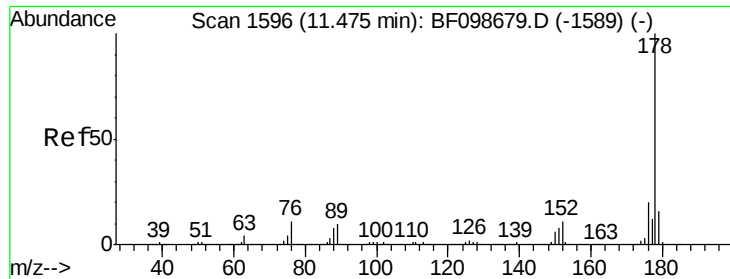
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.44 min Scan# 1590  
 Delta R.T. -0.01 min  
 Lab File: BF098832.D  
 Acq: 26 Sep 2017 15:12

Tgt Ion:188 Resp: 518659  
 Ion Ratio Lower Upper  
 188 100  
 94 10.3 8.5 12.7  
 80 11.2 9.2 13.8



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: 2.71 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.02 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

Instrument :

BNA\_F

ClientSampled :

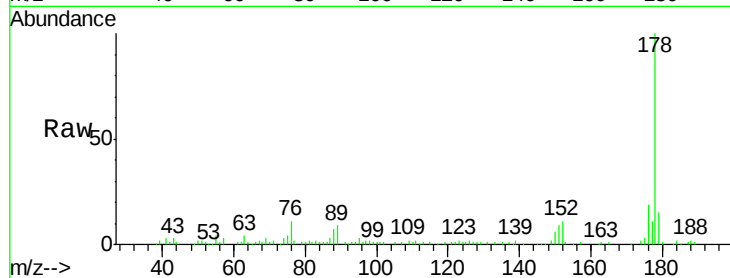
Tot Ion:178 Resp: 75312

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

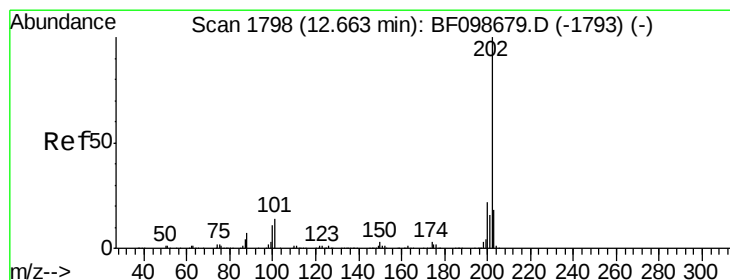
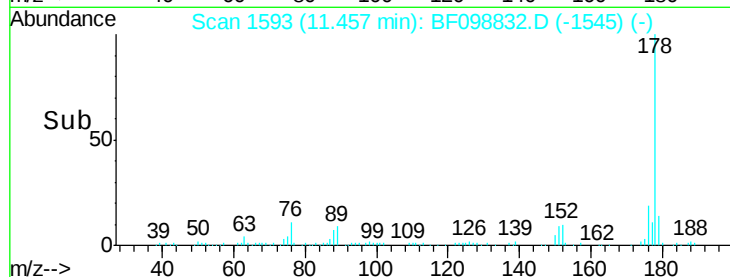
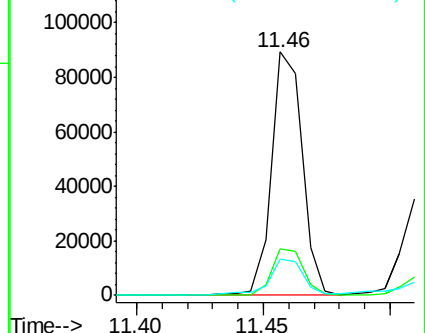
179 14.9 13.0 19.6



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: 4.21 ng

RT: 12.65 min Scan# 1796

Delta R.T. -0.01 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

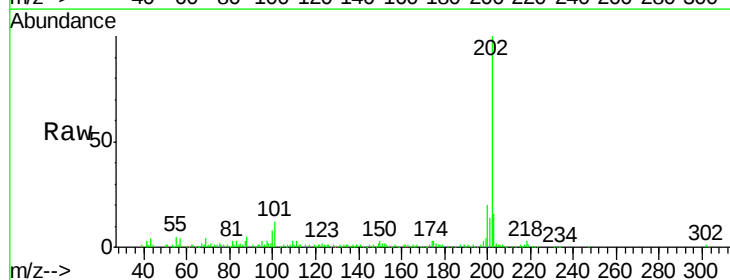
Tgt Ion:202 Resp: 118255

Ion Ratio Lower Upper

202 100

101 11.6 0.0 34.1

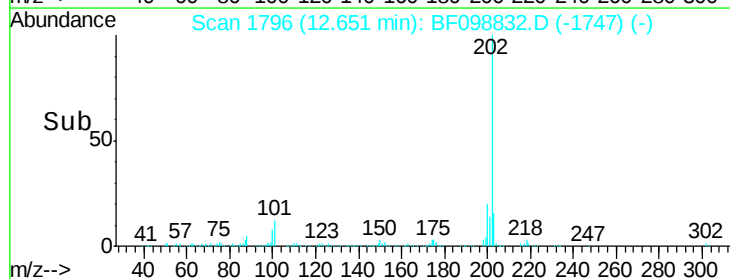
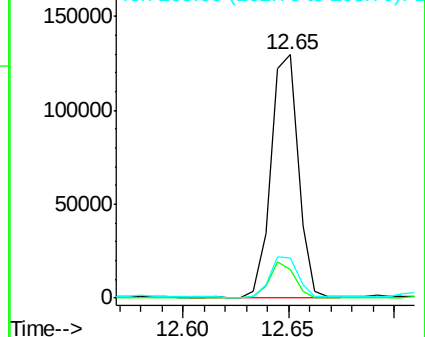
203 16.4 0.0 38.1

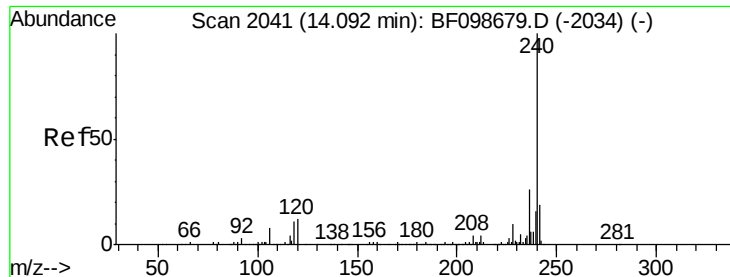


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.07 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

Instrument :

BNA\_F

ClientSampled :

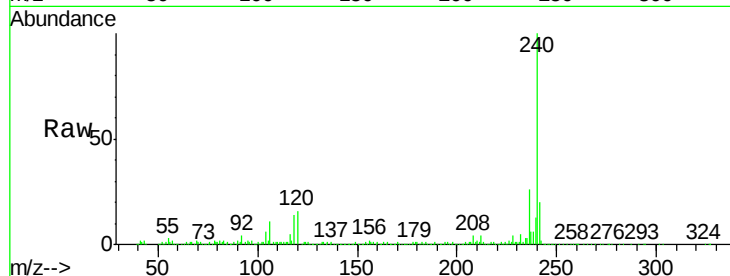
Tot Ion:240 Resp: 354371

Ion Ratio Lower Upper

240 100

120 16.1 9.5 14.3#

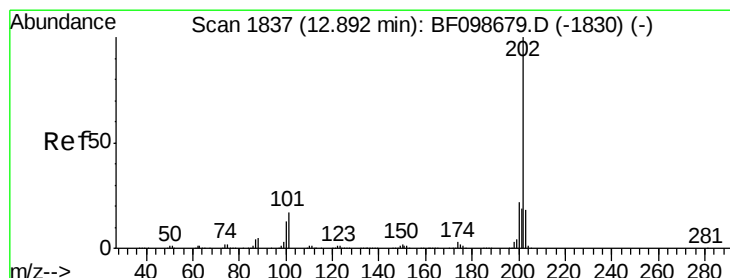
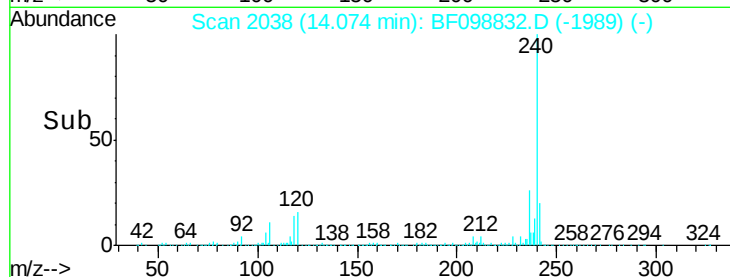
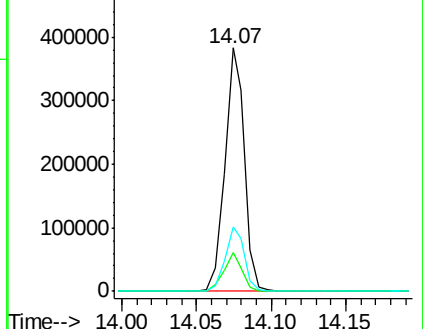
236 26.3 20.7 31.1



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: 3.78 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

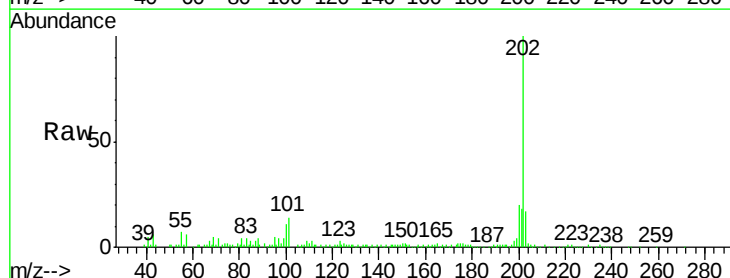
Tgt Ion:202 Resp: 102252

Ion Ratio Lower Upper

202 100

200 20.3 17.4 26.2

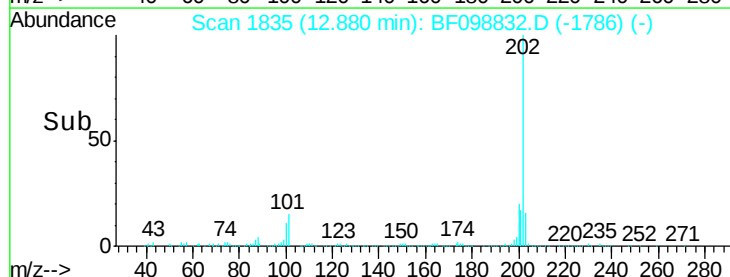
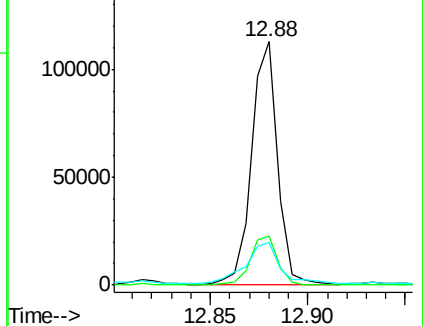
203 17.3 14.3 21.5

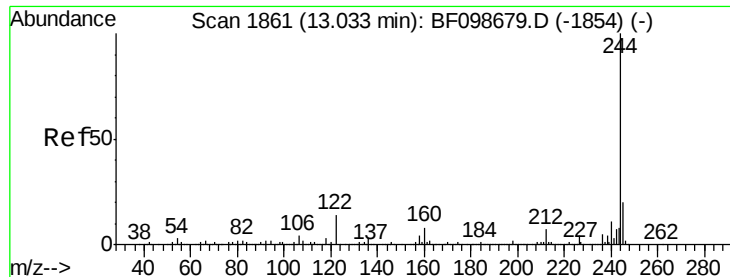


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 11.50 ng

RT: 13.02 min Scan# 1858

Delta R.T. -0.02 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

Instrument :

BNA\_F

ClientSampleId :

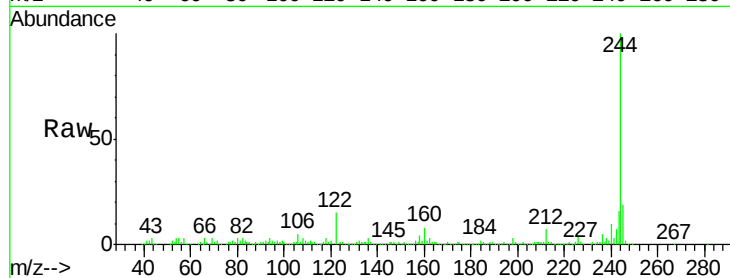
Tot Ion:244 Resp: 179265

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

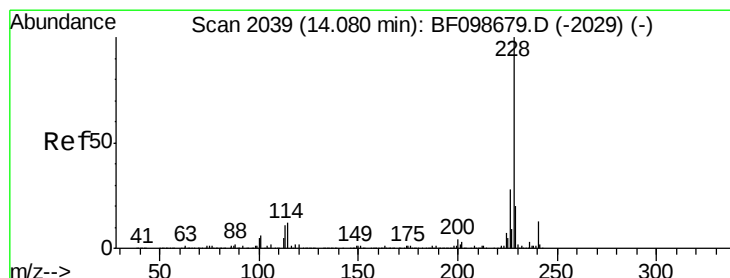
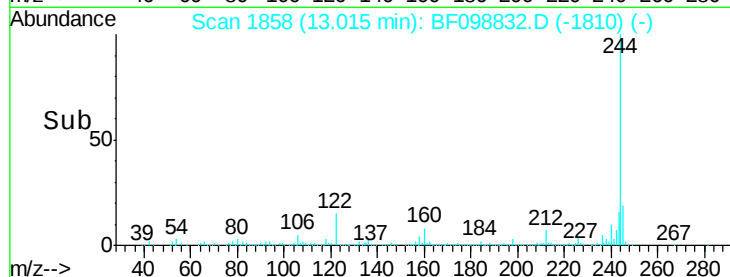
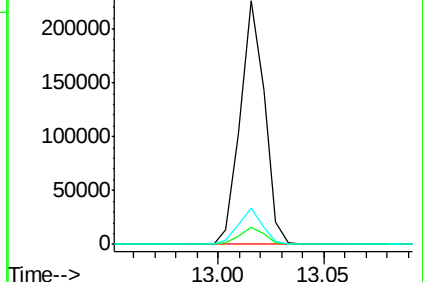
122 15.1 11.0 16.4



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: 2.44 ng

RT: 14.06 min Scan# 2036

Delta R.T. -0.01 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

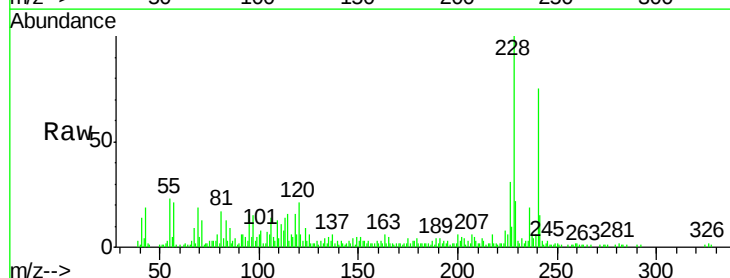
Tgt Ion:228 Resp: 52263

Ion Ratio Lower Upper

228 100

226 31.4 22.6 33.8

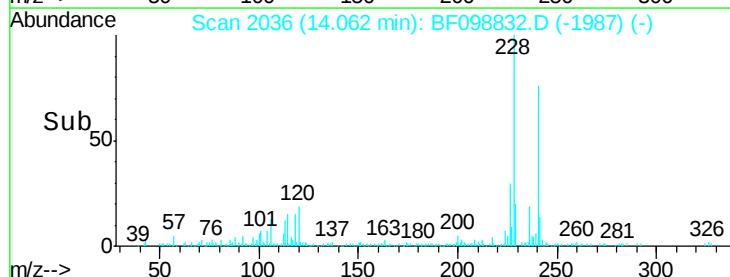
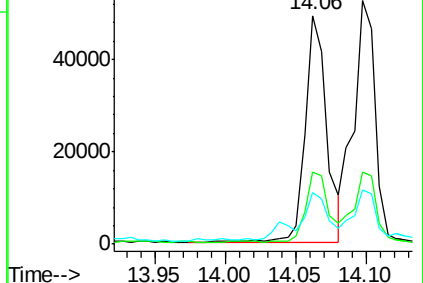
229 22.4 15.8 23.6

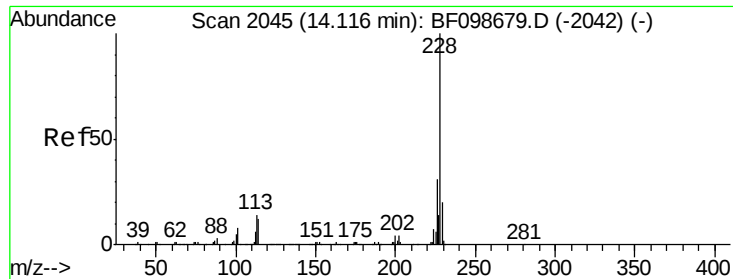


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

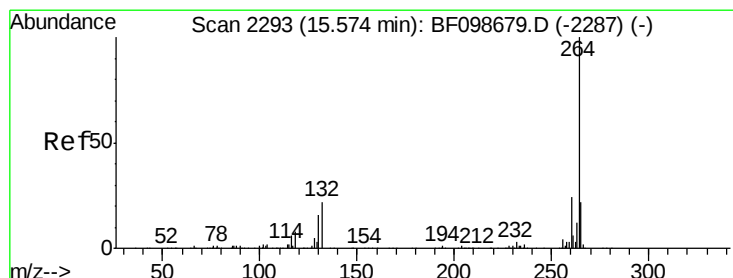
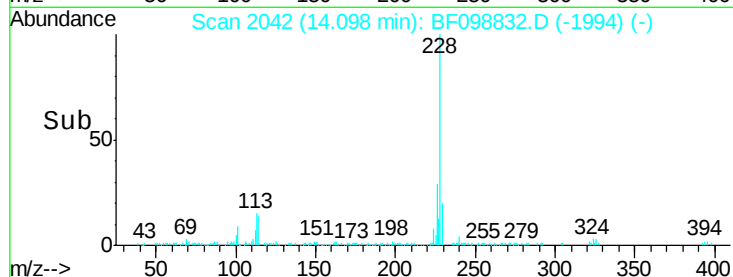
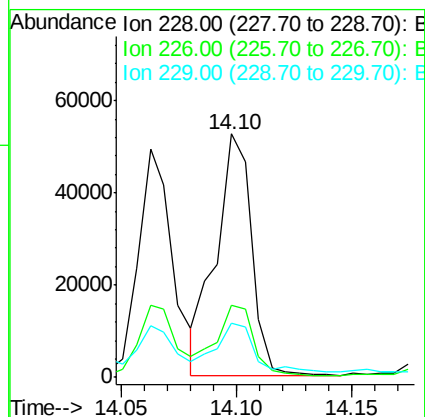
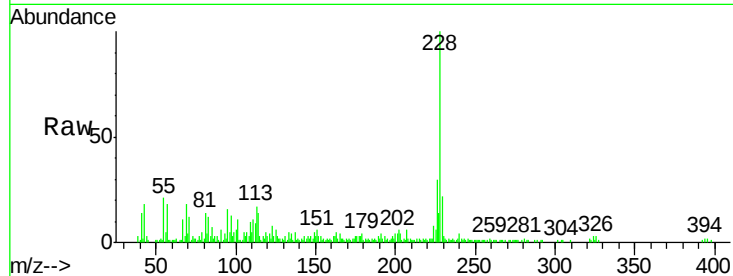




#82  
Chrysene  
Concen: 2.74 ng  
RT: 14.10 min Scan# 2042  
Delta R.T. -0.02 min  
Lab File: BF098832.D  
Acq: 26 Sep 2017 15:12

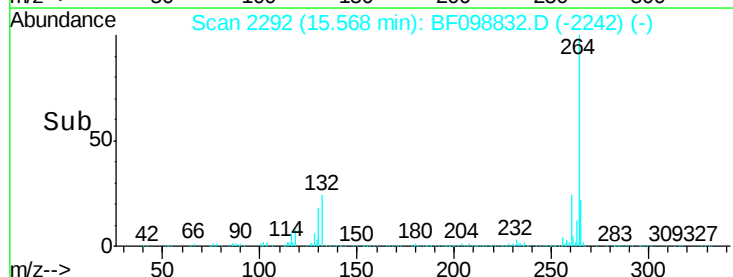
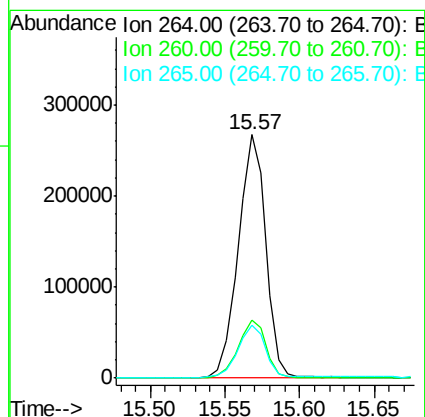
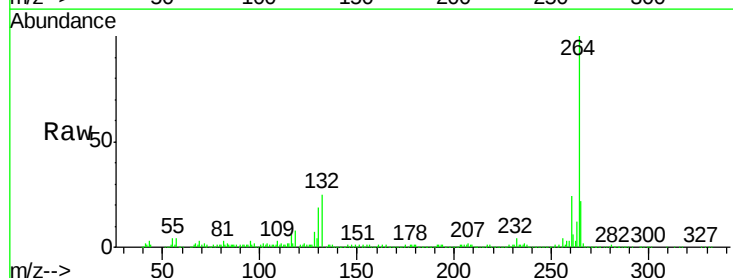
Instrument :  
BNA\_F  
ClientSampleId :

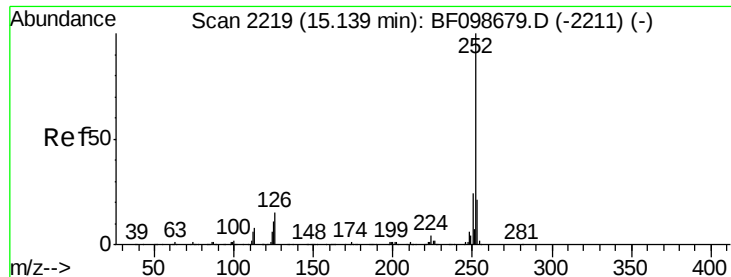
Tot Ion:228 Resp: 56015  
Ion Ratio Lower Upper  
228 100  
226 29.8 25.0 37.6  
229 22.0 16.2 24.4



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.57 min Scan# 2292  
Delta R.T. -0.01 min  
Lab File: BF098832.D  
Acq: 26 Sep 2017 15:12

Tgt Ion:264 Resp: 344353  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.2 28.8  
265 21.8 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 4.73 ng

RT: 15.13 min Scan# 2217

Delta R.T. -0.01 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

Instrument :

BNA\_F

ClientSampleId :

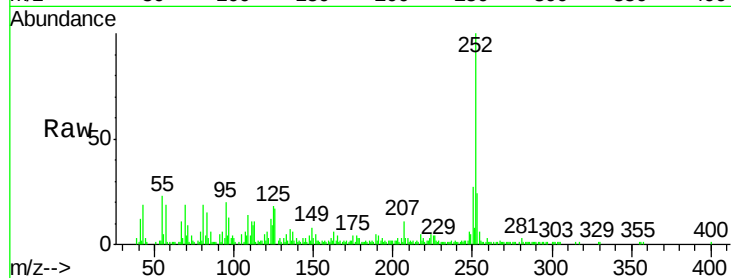
Tot Ion:252 Resp: 100244

Ion Ratio Lower Upper

252 100

253 23.8 17.0 25.6

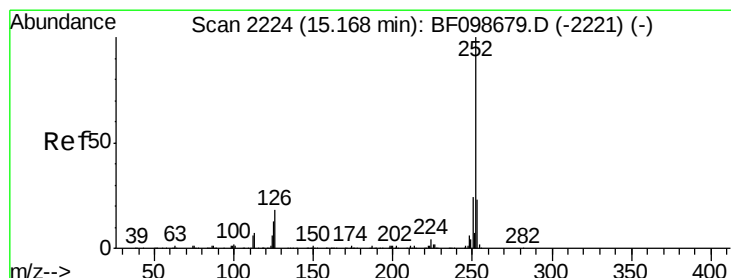
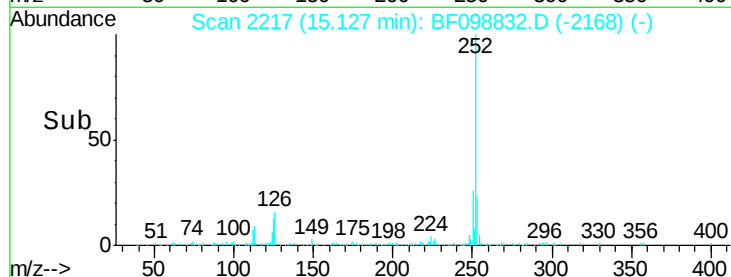
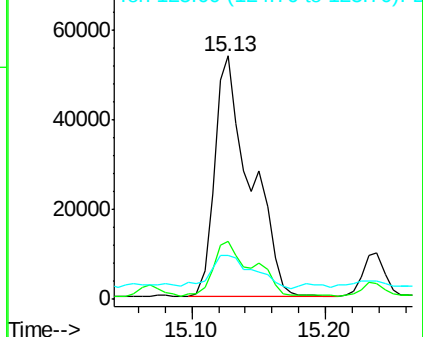
125 18.1 9.0 13.6#



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: 4.79 ng

RT: 15.13 min Scan# 2217

Delta R.T. -0.04 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

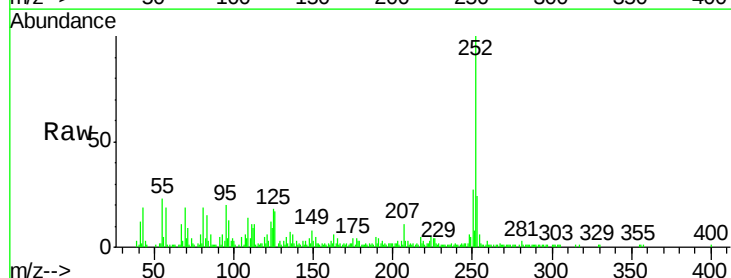
Tgt Ion:252 Resp: 100244

Ion Ratio Lower Upper

252 100

253 23.8 17.9 26.9

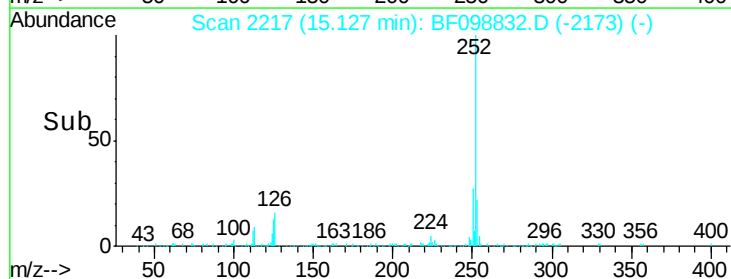
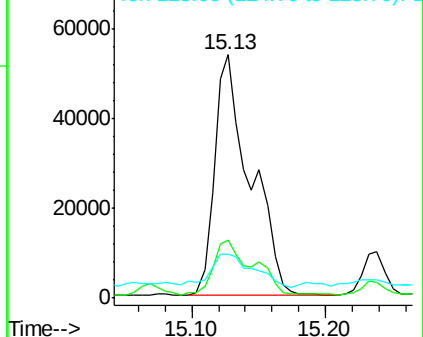
125 18.1 10.2 15.2#

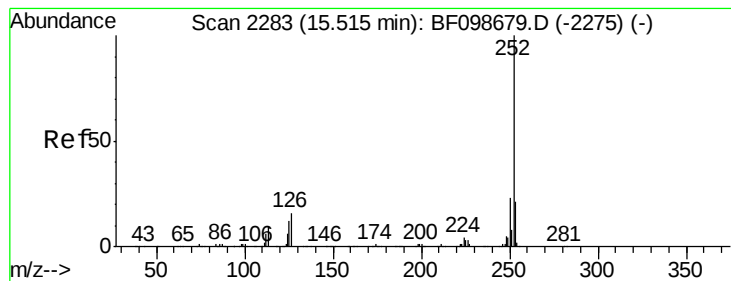


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 2.18 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.02 min

Lab File: BF098832.D

Acq: 26 Sep 2017 15:12

Instrument :

BNA\_F

ClientSampleId :

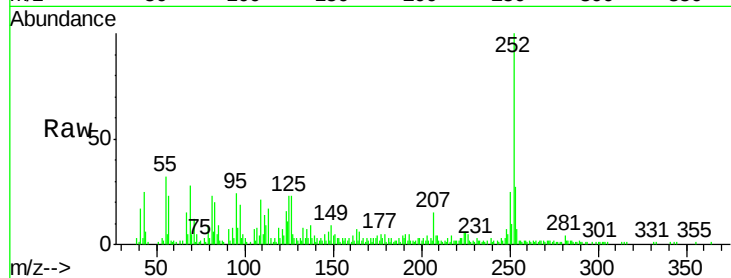
Tot Ion:252 Resp: 42352

Ion Ratio Lower Upper

252 100

253 26.6 17.1 25.7#

125 23.4 9.8 14.6#



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

