

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062018\  
 Data File : BF106634.D  
 Acq On : 20 Jun 2018 21:55  
 Operator : JU/SJ  
 Sample : J3249-03 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-061818-B

Quant Time: Jun 21 01:04:24 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 19 14:32:09 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.96  | 152  | 99004    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.24  | 136  | 390467   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.00 | 164  | 192845   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.49 | 188  | 332603   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.15 | 240  | 248136   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.68 | 264  | 219874   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 130144   | 22.26 | ng    | 0.00     |
| 7) Phenol-d6                | 6.61  | 99   | 165422   | 22.66 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 102806   | 14.63 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.79 | 330  | 44225    | 19.79 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 211544   | 4.62  | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.08 | 244  | 195273   | 19.06 | ng    | 0.00     |

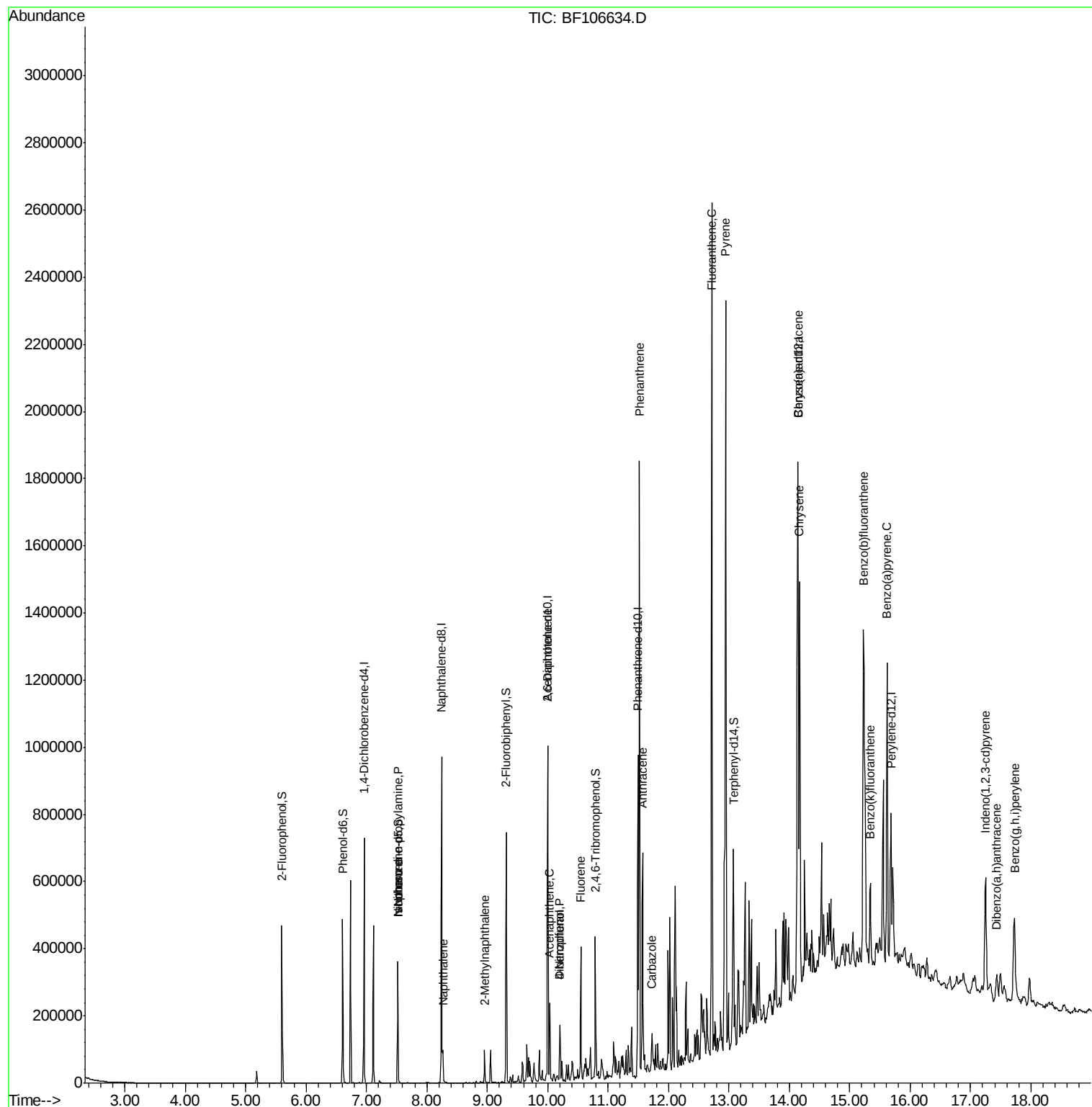
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 13127    | 2.727  | ng    | # 76   |
| 25) Isophorone                 | 7.52  | 82   | 102805   | 8.303  | ng    | # 64   |
| 31) Naphthalene                | 8.27  | 128  | 37662    | 2.063  | ng    | 98     |
| 37) 2-Methylnaphthalene        | 8.95  | 142  | 26416    | 2.183  | ng    | 95     |
| 50) 2,6-Dinitrotoluene         | 10.00 | 165  | 26602    | 8.686  | ng    | # 25   |
| 51) Acenaphthene               | 10.04 | 154  | 50385    | 4.189  | ng    | 97     |
| 54) Dibenzofuran               | 10.21 | 168  | 60806    | 3.692  | ng    | 93     |
| 55) 4-Nitrophenol              | 10.21 | 139  | 20385    | 8.286  | ng    | # 11   |
| 57) Fluorene                   | 10.55 | 166  | 98750    | 7.556  | ng    | 99     |
| 70) Phenanthrene               | 11.52 | 178  | 736086   | 45.885 | ng    | 99     |
| 71) Anthracene                 | 11.57 | 178  | 242354   | 14.801 | ng    | 99     |
| 72) Carbazole                  | 11.72 | 167  | 40121    | 2.617  | ng    | 98     |
| 74) Fluoranthene               | 12.72 | 202  | 1103271  | 62.396 | ng    | 96     |
| 77) Pyrene                     | 12.95 | 202  | 1010700  | 61.768 | ng    | 97     |
| 80) Benzo(a)anthracene         | 14.14 | 228  | 667709   | 44.151 | ng    | 97     |
| 82) Chrysene                   | 14.17 | 228  | 529861   | 38.083 | ng    | 98     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.25 | 276  | 241869   | 20.485 | ng    | # 87   |
| 87) Benzo(b)fluoranthene       | 15.23 | 252  | 918461   | 67.245 | ng    | 96     |
| 88) Benzo(k)fluoranthene       | 15.34 | 252  | 123023   | 9.458  | ng    | 93     |
| 89) Benzo(a)pyrene             | 15.62 | 252  | 480111   | 39.541 | ng    | 95     |
| 90) Dibenzo(a,h)anthracene     | 17.44 | 278  | 54861    | 5.331  | ng    | 94     |
| 91) Benzo(g,h,i)perylene       | 17.73 | 276  | 225397   | 22.410 | ng    | # 89   |

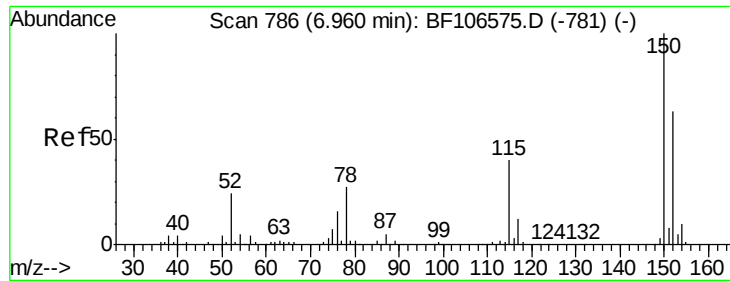
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 21 01:04:24 2018  
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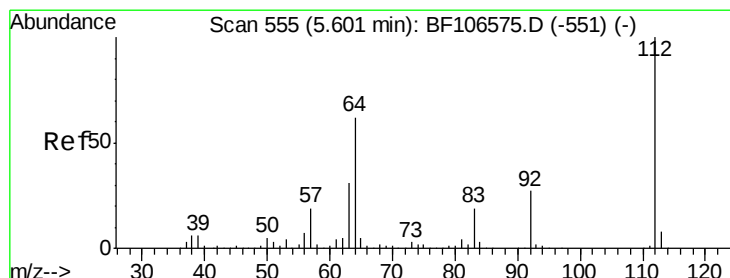
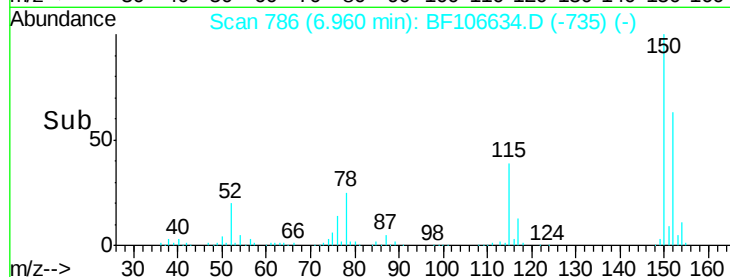
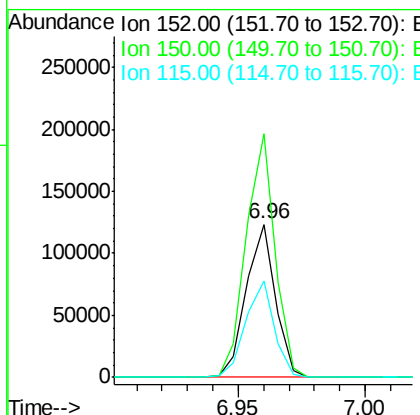
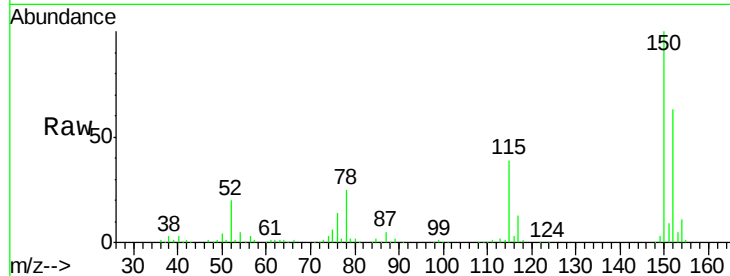




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.96 min Scan# 786  
 Delta R.T. -0.00 min  
 Lab File: BF106634.D  
 Acq: 20 Jun 2018 21:55

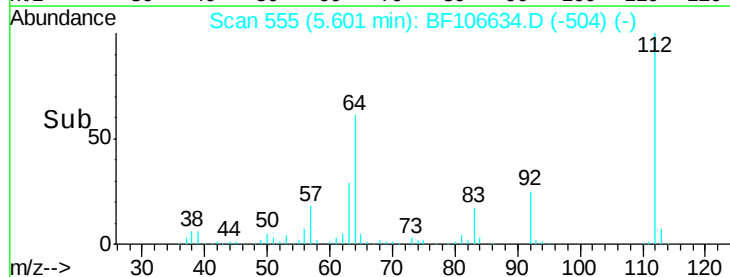
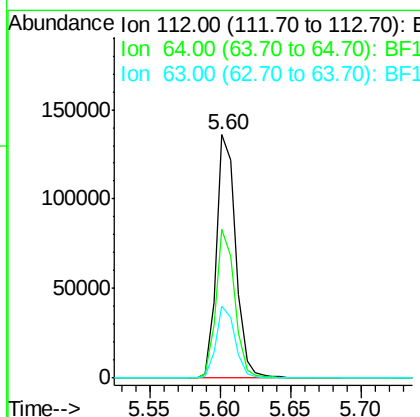
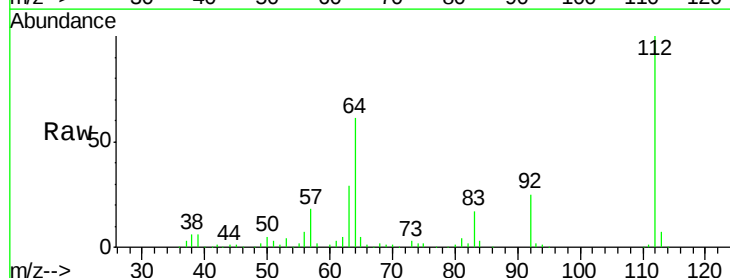
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-061818-B

Tgt Ion:152 Resp: 99004  
 Ion Ratio Lower Upper  
 152 100  
 150 159.1 124.6 186.8  
 115 62.8 50.1 75.1



#5  
 2-Fluorophenol  
 Concen: 22.259 ng  
 RT: 5.60 min Scan# 555  
 Delta R.T. 0.00 min  
 Lab File: BF106634.D  
 Acq: 20 Jun 2018 21:55

Tgt Ion:112 Resp: 130144  
 Ion Ratio Lower Upper  
 112 100  
 64 61.3 47.9 71.9  
 63 29.4 23.7 35.5





#7

Phenol-d6

Concen: 22.656 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.00 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

PL-01-061818-B

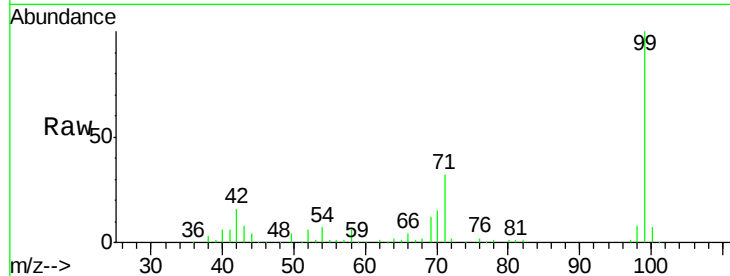
Tgt Ion: 99 Resp: 165422

Ion Ratio Lower Upper

99 100

42 16.4 14.5 21.7

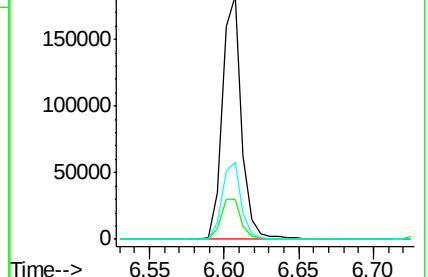
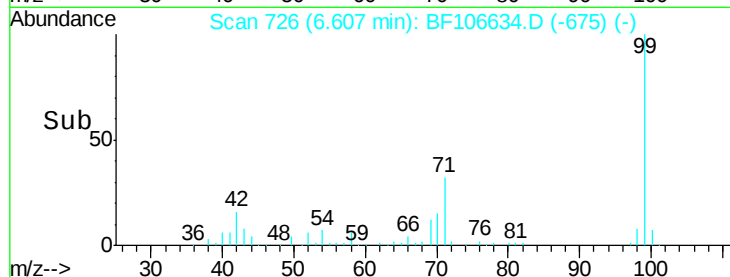
71 31.7 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.727 ng

RT: 7.52 min Scan# 881

Delta R.T. 0.15 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Tgt Ion: 70 Resp: 13127

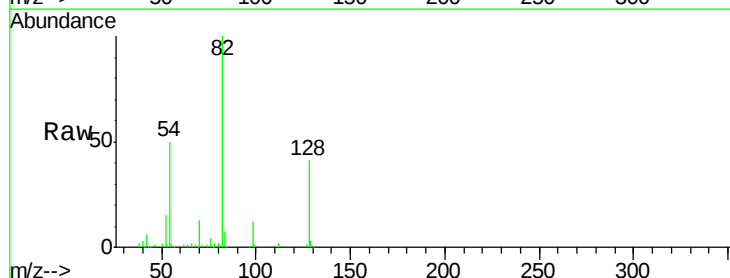
Ion Ratio Lower Upper

70 100

42 45.0 47.5 71.3#

101 0.0 7.4 11.2#

130 3.1 16.6 25.0#

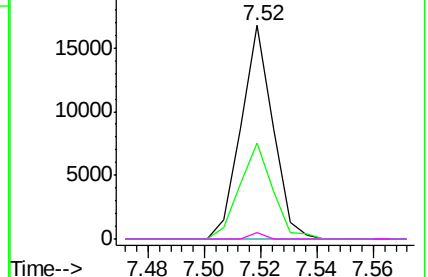
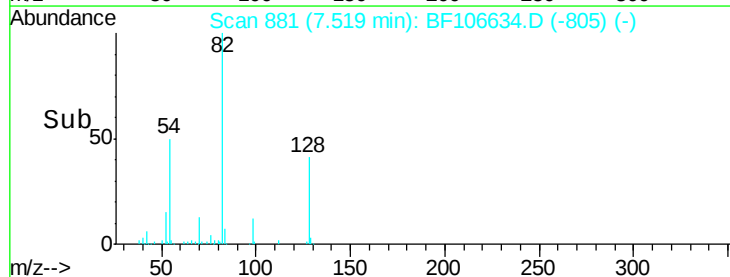


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

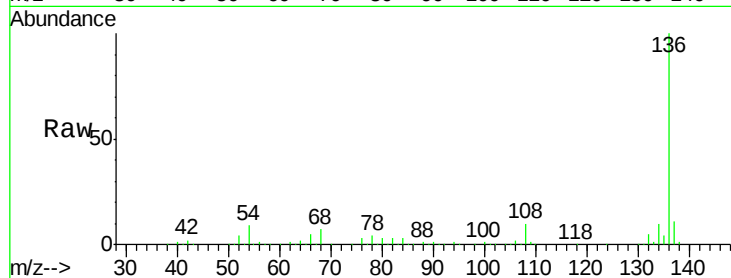




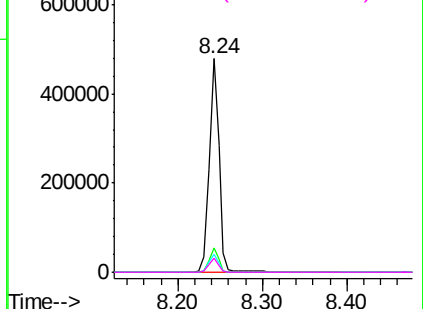
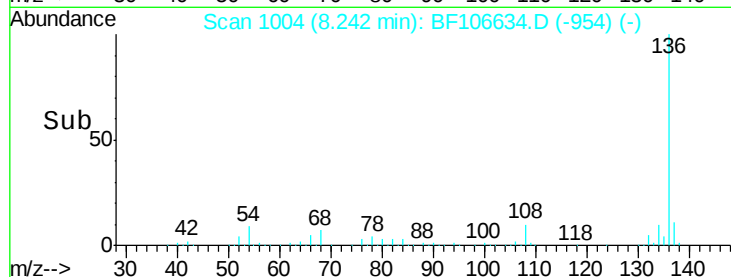
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.24 min Scan# 1004  
Delta R.T. -0.01 min  
Lab File: BF106634.D  
Acq: 20 Jun 2018 21:55

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-061818-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 390467 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.9   | 13.3   |
| 54       | 8.6   | 6.6   | 9.8    |
| 68       | 6.7   | 5.0   | 7.4    |

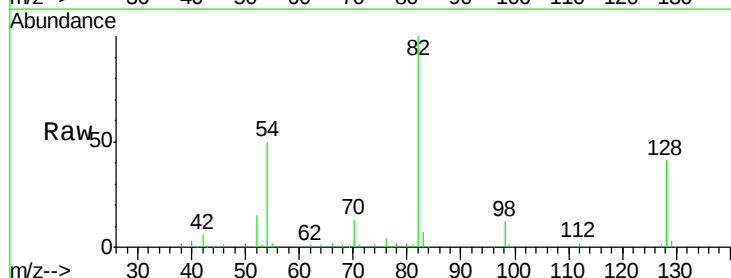


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

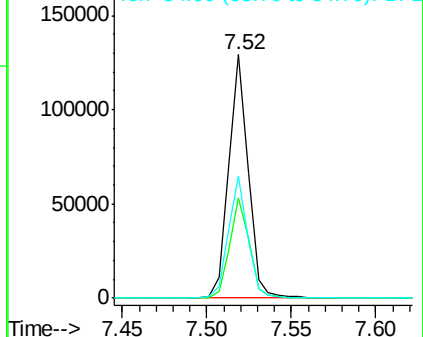
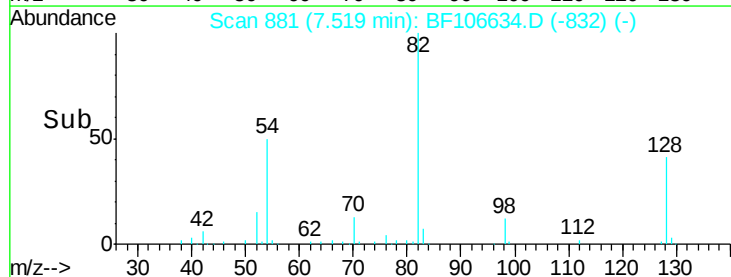


#23  
Nitrobenzene-d5  
Concen: 14.632 ng  
RT: 7.52 min Scan# 881  
Delta R.T. -0.01 min  
Lab File: BF106634.D  
Acq: 20 Jun 2018 21:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 102806 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 41.4  | 36.1  | 54.1   |
| 54       | 50.2  | 41.4  | 62.2   |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 8.303 ng

RT: 7.52 min Scan# 881

Delta R.T. -0.26 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

PL-01-061818-B

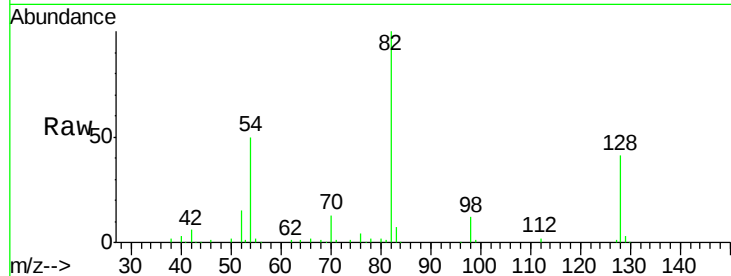
Tgt Ion: 82 Resp: 102805

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

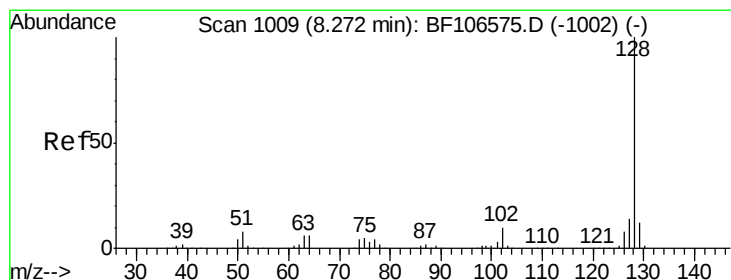
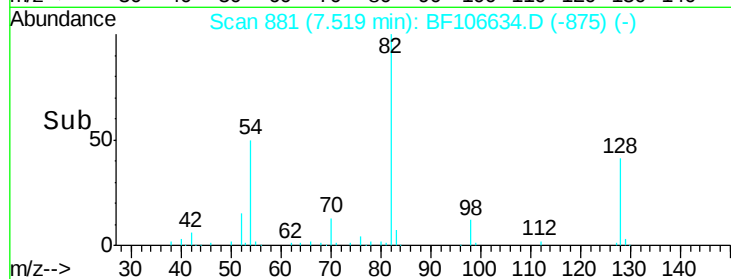
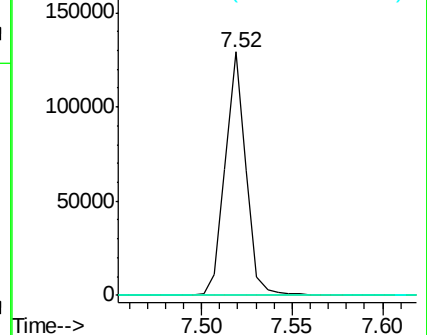
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#31

Naphthalene

Concen: 2.063 ng

RT: 8.27 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

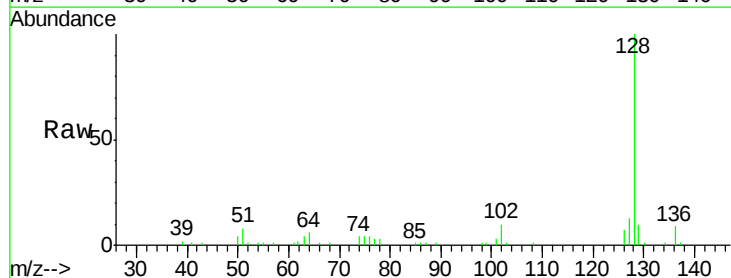
Tgt Ion: 128 Resp: 37662

Ion Ratio Lower Upper

128 100

129 10.4 8.8 13.2

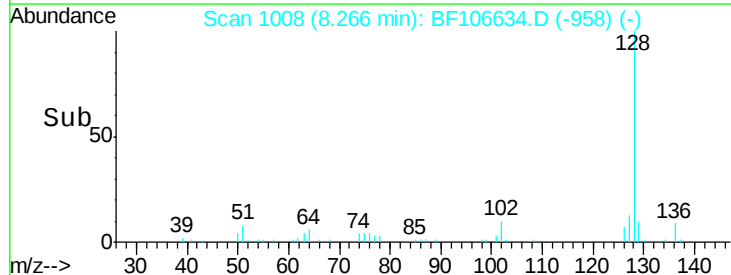
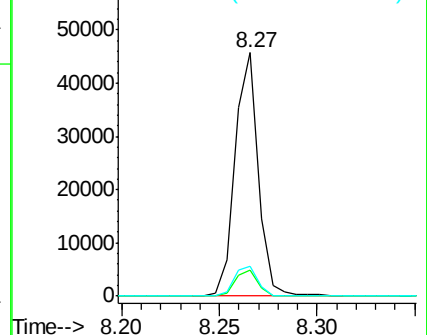
127 12.5 10.9 16.3

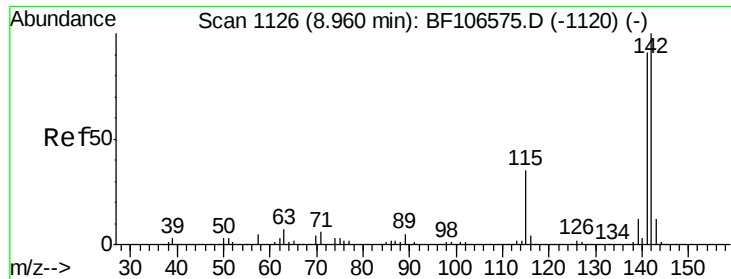


Abundance Ion 128.00 (127.70 to 128.70): BF1

Ion 129.00 (128.70 to 129.70): BF1

Ion 127.00 (126.70 to 127.70): BF1

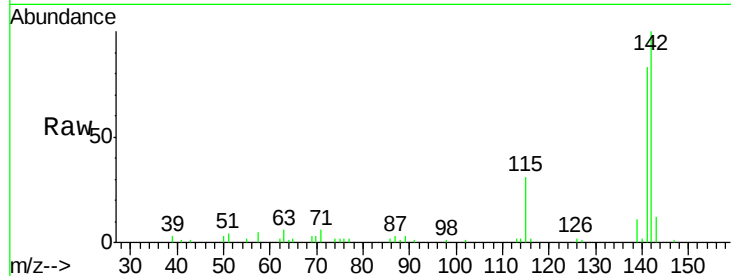




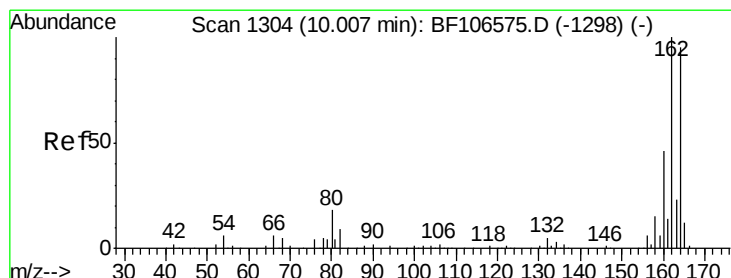
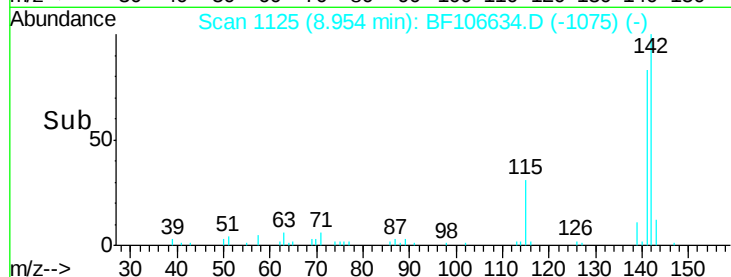
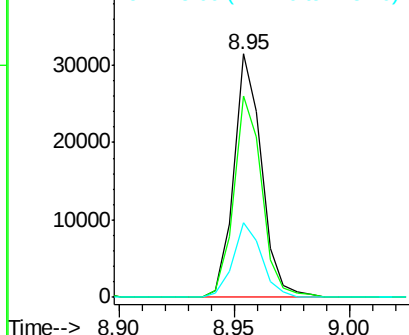
#37  
 2-Methylnaphthalene  
 Concen: 2.183 ng  
 RT: 8.95 min Scan# 1125  
 Delta R.T. -0.01 min  
 Lab File: BF106634.D  
 Acq: 20 Jun 2018 21:55

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-061818-B

Tgt Ion:142 Resp: 26416  
 Ion Ratio Lower Upper  
 142 100  
 141 82.6 70.8 106.2  
 115 30.8 26.1 39.1

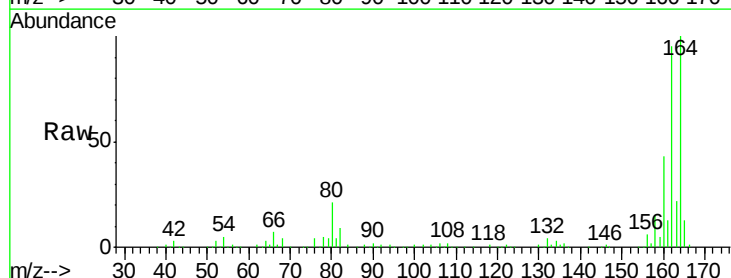


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

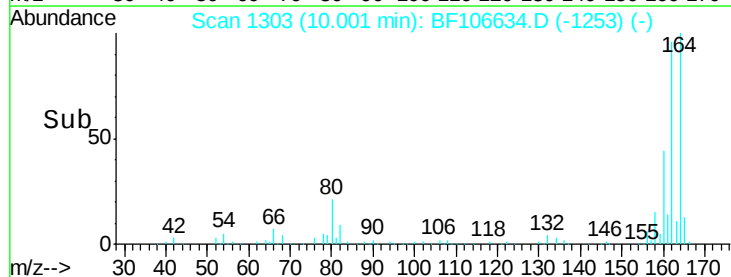
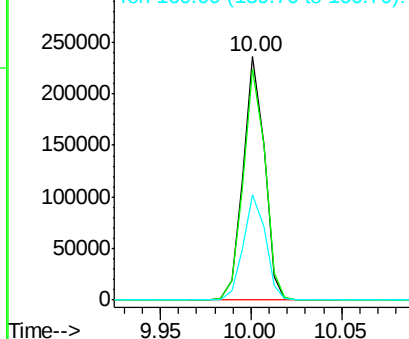


#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.00 min Scan# 1303  
 Delta R.T. -0.01 min  
 Lab File: BF106634.D  
 Acq: 20 Jun 2018 21:55

Tgt Ion:164 Resp: 192845  
 Ion Ratio Lower Upper  
 164 100  
 162 95.1 86.1 129.1  
 160 43.5 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

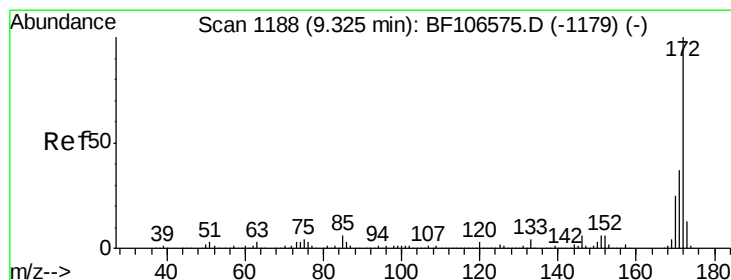
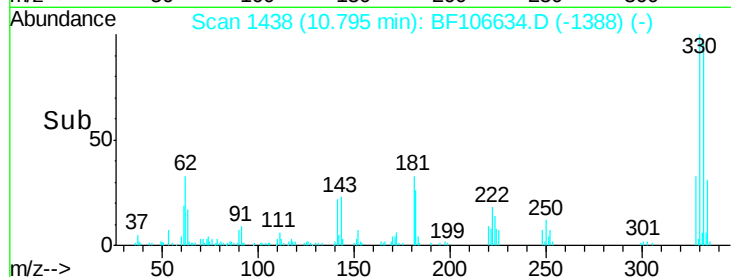
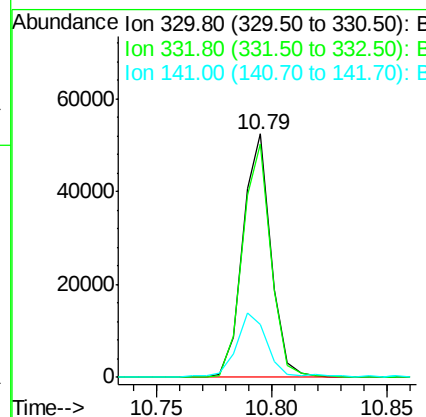
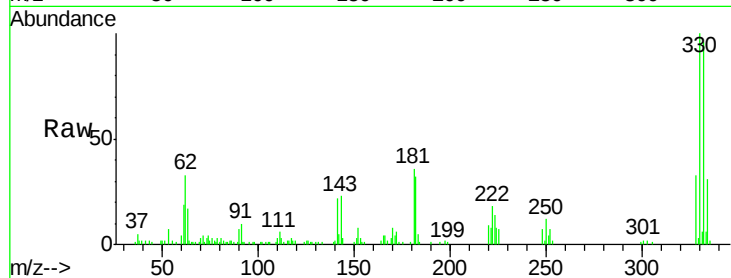




#41  
 2,4,6-Tribromophenol  
 Concen: 19.786 ng  
 RT: 10.79 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF106634.D  
 Acq: 20 Jun 2018 21:55

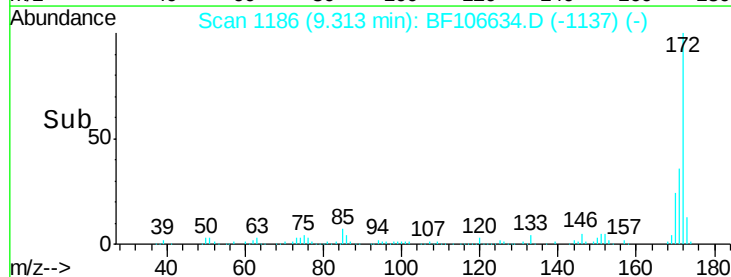
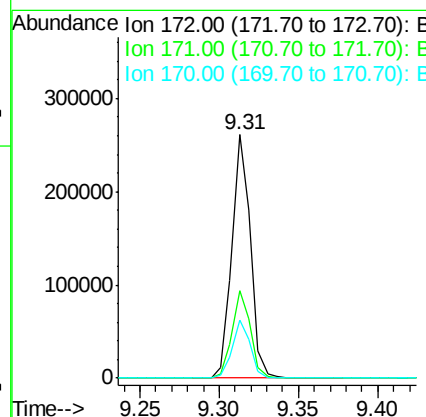
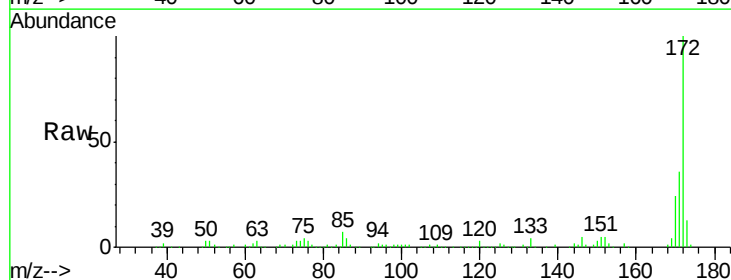
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-061818-B

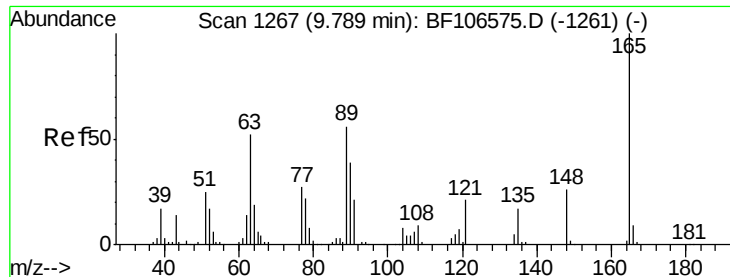
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.2  | 77.0  | 115.6 |
| 141     | 29.2  | 29.9  | 44.9# |



#44  
 2-Fluorobiphenyl  
 Concen: 4.618 ng  
 RT: 9.31 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF106634.D  
 Acq: 20 Jun 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.7  | 44.5  |
| 170     | 23.9  | 19.6  | 29.4  |

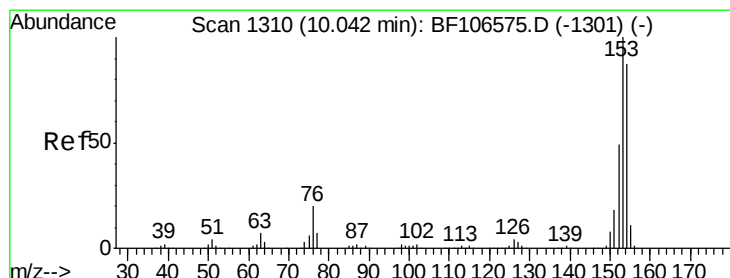
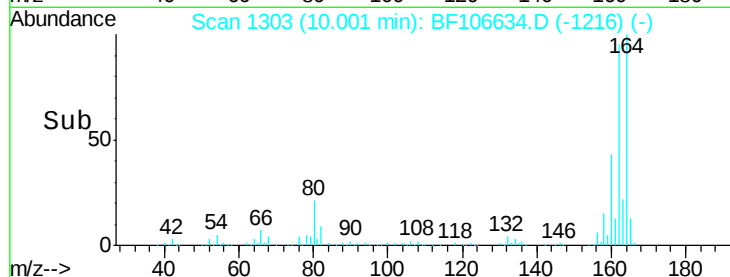
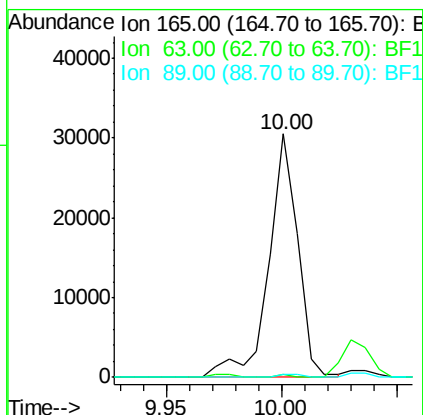
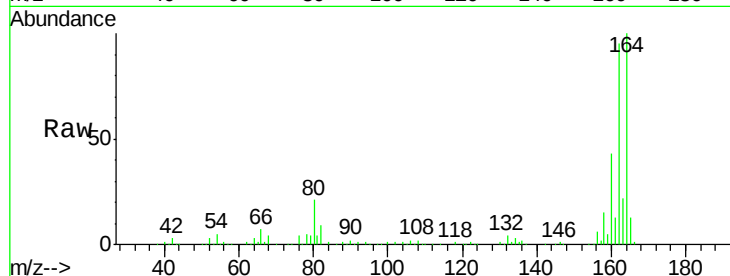




#50  
2,6-Dinitrotoluene  
Concen: 8.686 ng  
RT: 10.00 min Scan# 1303  
Delta R.T. 0.21 min  
Lab File: BF106634.D  
Acq: 20 Jun 2018 21:55

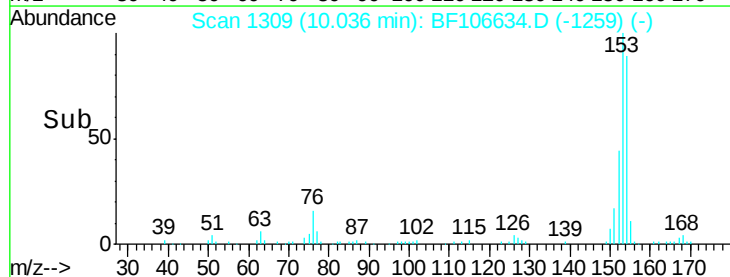
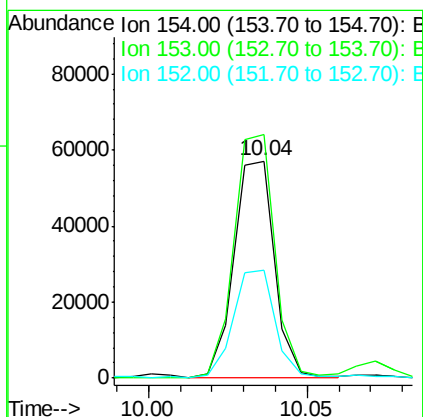
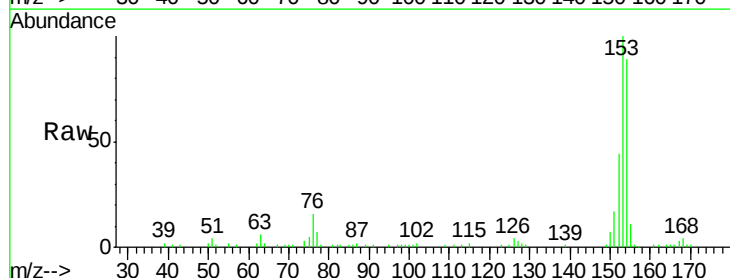
Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-061818-B

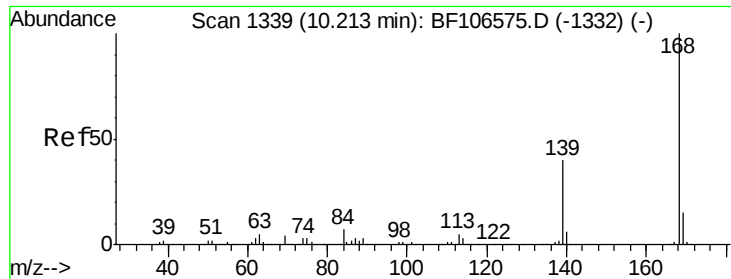
Tgt Ion:165 Resp: 26602  
Ion Ratio Lower Upper  
165 100  
63 1.5 44.7 67.1#  
89 1.2 44.0 66.0#



#51  
Acenaphthene  
Concen: 4.189 ng  
RT: 10.04 min Scan# 1309  
Delta R.T. -0.01 min  
Lab File: BF106634.D  
Acq: 20 Jun 2018 21:55

Tgt Ion:154 Resp: 50385  
Ion Ratio Lower Upper  
154 100  
153 112.2 91.2 136.8  
152 49.9 43.8 65.8

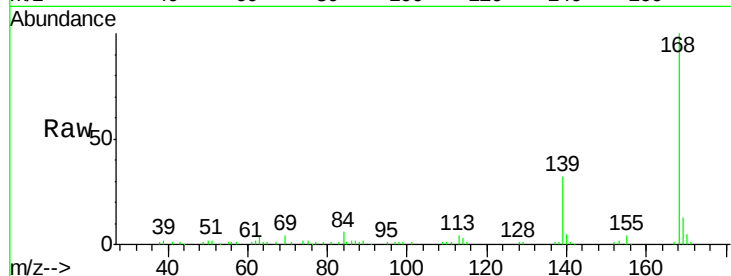




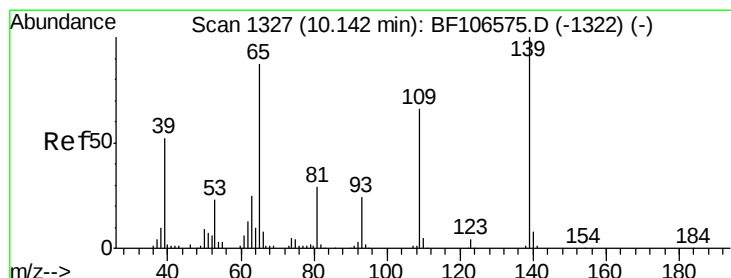
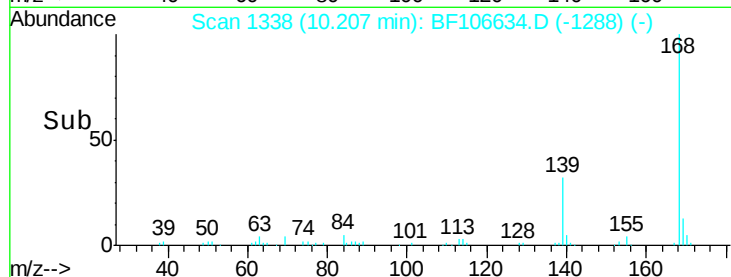
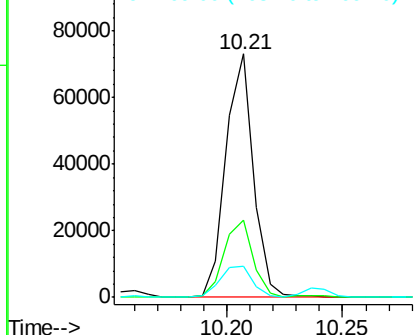
#54  
Dibenzenofuran  
Concen: 3.692 ng  
RT: 10.21 min Scan# 1338  
Delta R.T. -0.01 min  
Lab File: BF106634.D  
Acq: 20 Jun 2018 21:55

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-061818-B

Tgt Ion:168 Resp: 60806  
Ion Ratio Lower Upper  
168 100  
139 31.9 30.1 45.1  
169 13.0 10.9 16.3

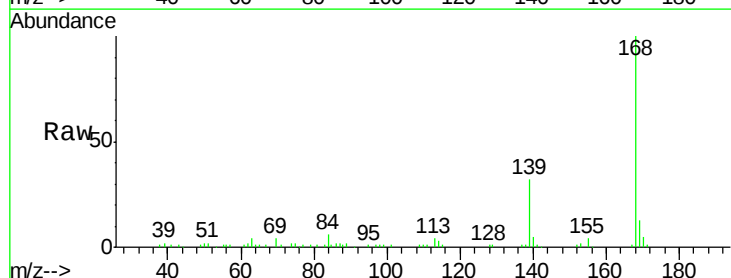


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

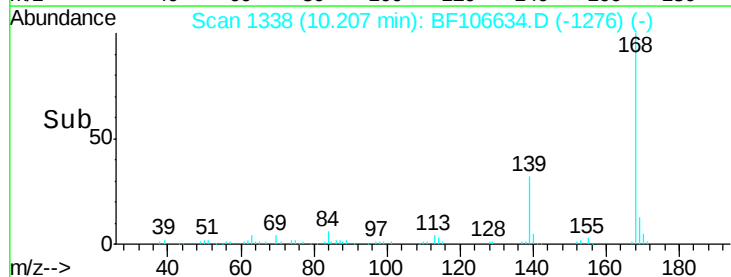
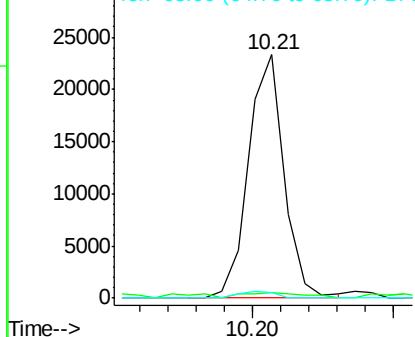


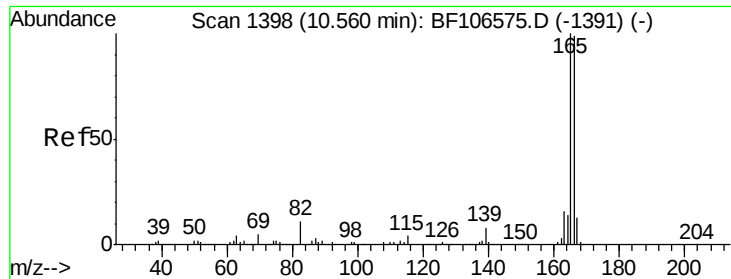
#55  
4-Nitrophenol  
Concen: 8.286 ng  
RT: 10.21 min Scan# 1338  
Delta R.T. 0.06 min  
Lab File: BF106634.D  
Acq: 20 Jun 2018 21:55

Tgt Ion:139 Resp: 20385  
Ion Ratio Lower Upper  
139 100  
109 2.4 48.4 88.4#  
65 2.4 72.6 112.6#



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): BF1

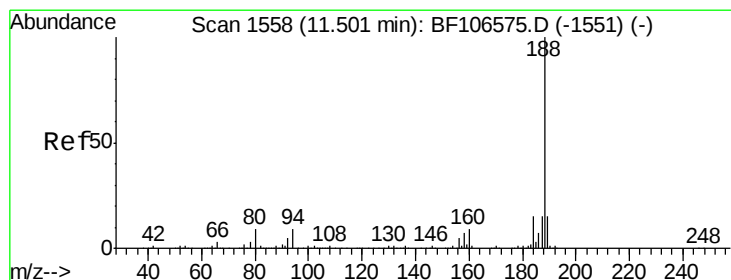
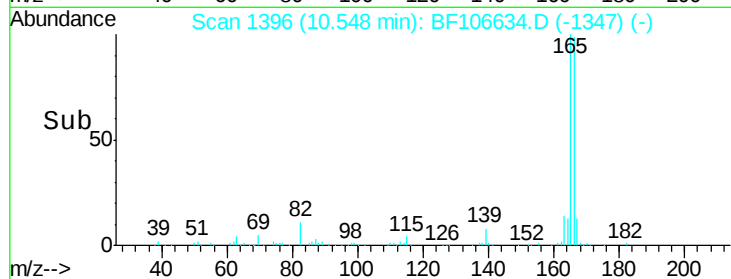
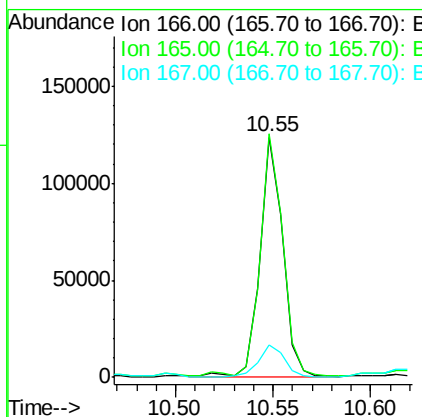
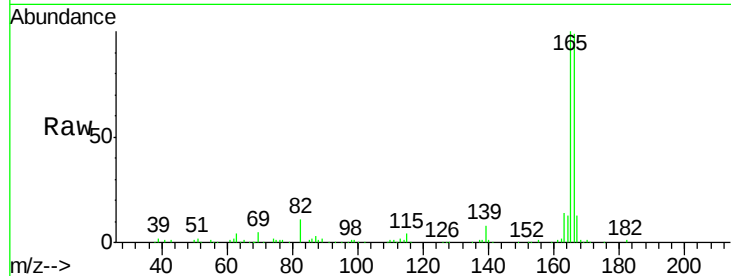




#57  
**Fluorene**  
 Concen: 7.556 ng  
 RT: 10.55 min Scan# 1396  
 Delta R.T. -0.01 min  
 Lab File: BF106634.D  
 Acq: 20 Jun 2018 21:55

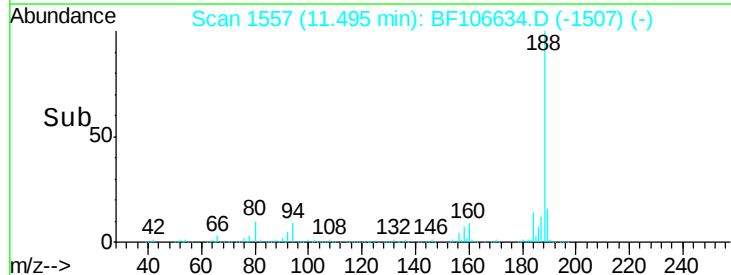
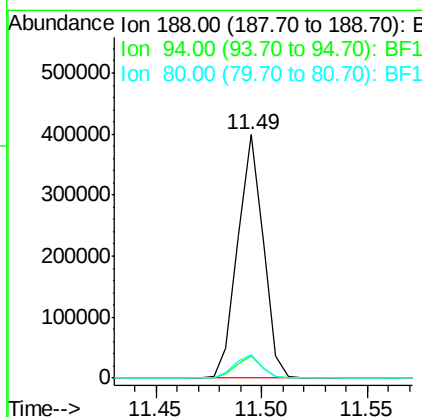
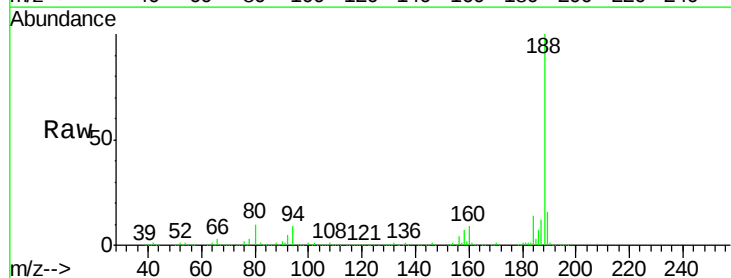
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-061818-B

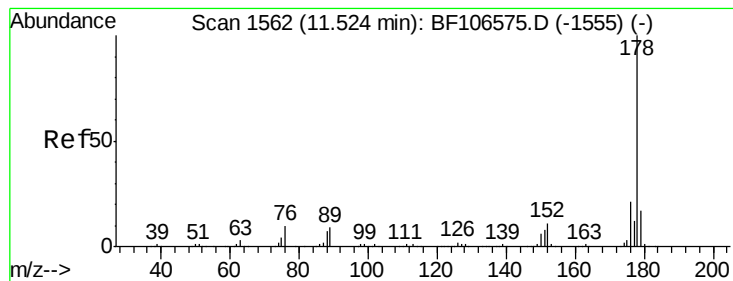
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.5 | 79.8  | 119.8 |
| 167     | 13.3  | 10.6  | 16.0  |



#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 11.49 min Scan# 1557  
 Delta R.T. -0.01 min  
 Lab File: BF106634.D  
 Acq: 20 Jun 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.3   | 8.5   | 12.7  |
| 80      | 9.9   | 9.2   | 13.8  |





#70

Phenanthrene

Concen: 45.885 ng

RT: 11.52 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

PL-01-061818-B

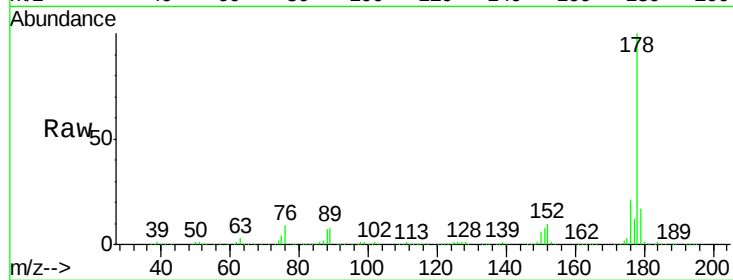
Tgt Ion:178 Resp: 736086

Ion Ratio Lower Upper

178 100

176 20.6 15.8 23.8

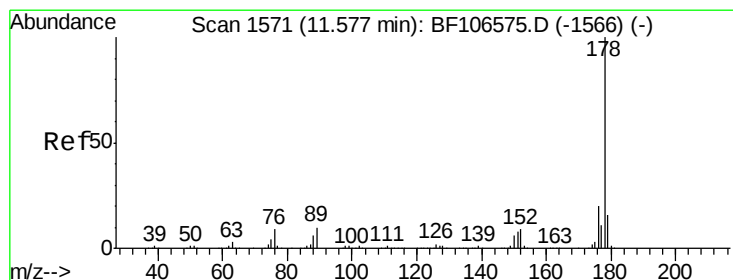
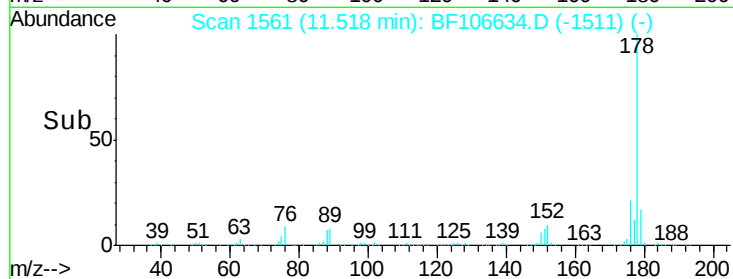
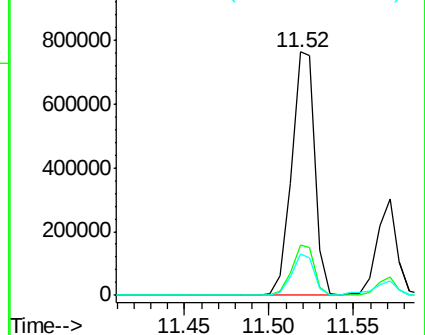
179 16.7 13.0 19.6



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



#71

Anthracene

Concen: 14.801 ng

RT: 11.57 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

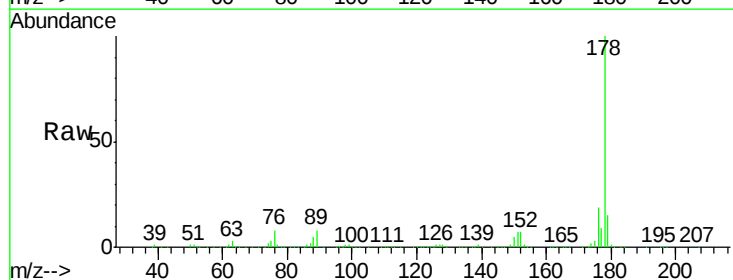
Tgt Ion:178 Resp: 242354

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.2

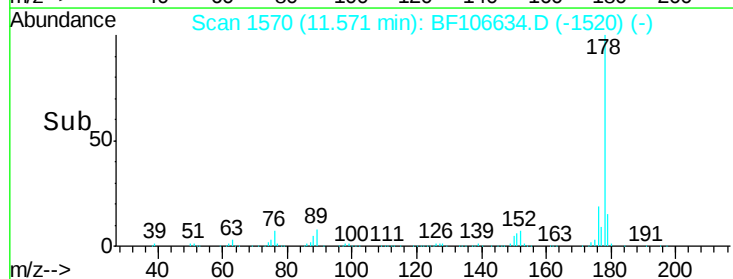
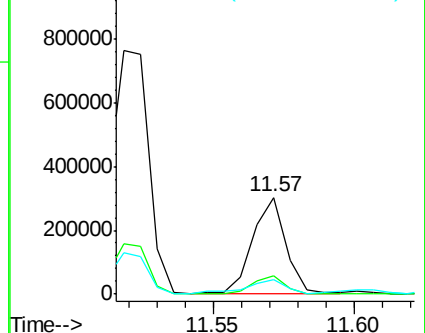
179 15.3 12.6 19.0

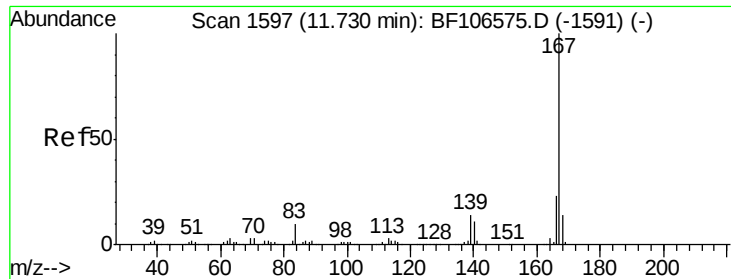


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.617 ng

RT: 11.72 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

PL-01-061818-B

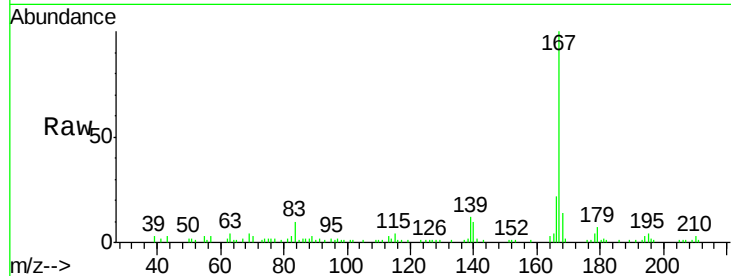
Tgt Ion:167 Resp: 40121

Ion Ratio Lower Upper

167 100

166 21.6 17.6 26.4

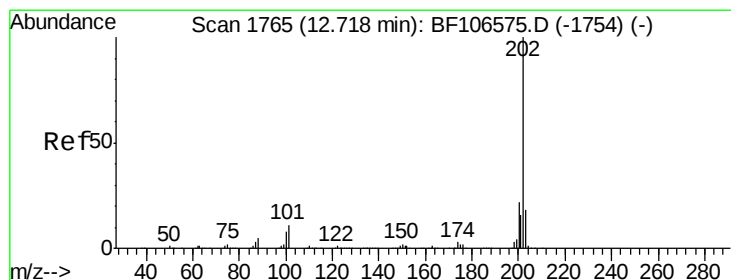
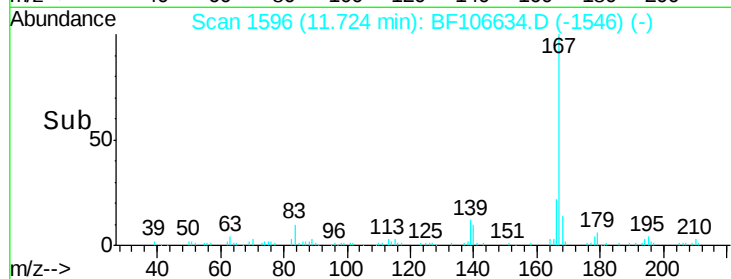
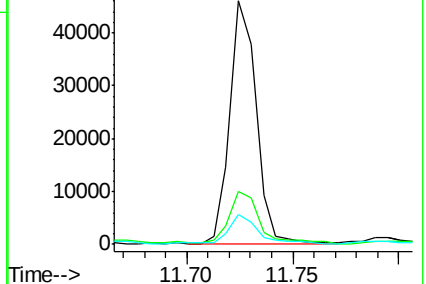
139 12.5 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 62.396 ng

RT: 12.72 min Scan# 1765

Delta R.T. -0.00 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

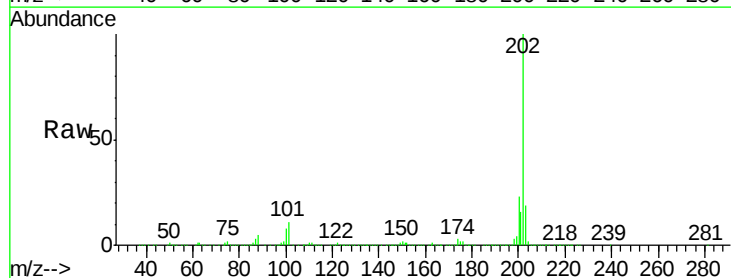
Tgt Ion:202 Resp: 1103271

Ion Ratio Lower Upper

202 100

101 11.0 0.0 34.1

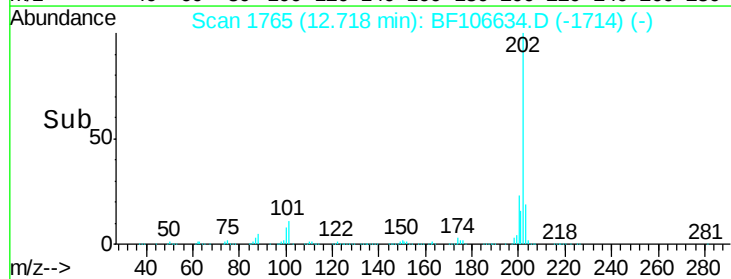
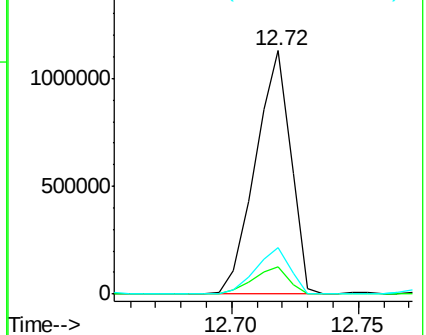
203 18.9 0.0 38.1

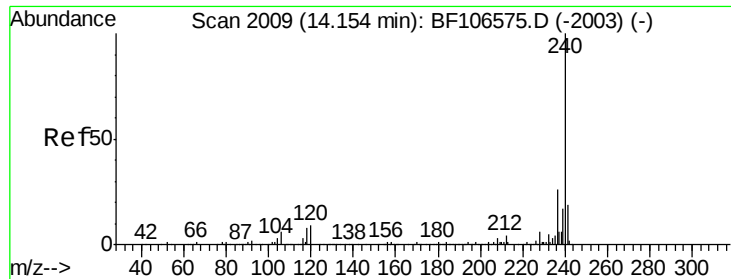


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

PL-01-061818-B

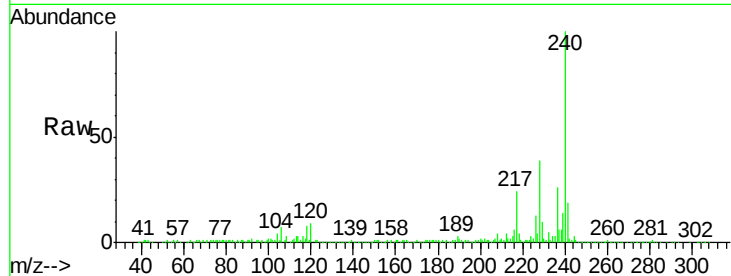
Tgt Ion:240 Resp: 248136

Ion Ratio Lower Upper

240 100

120 9.4 9.5 14.3#

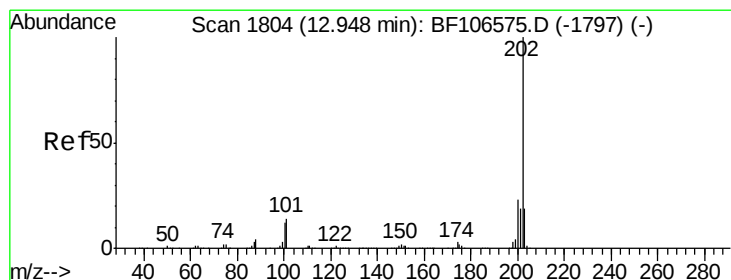
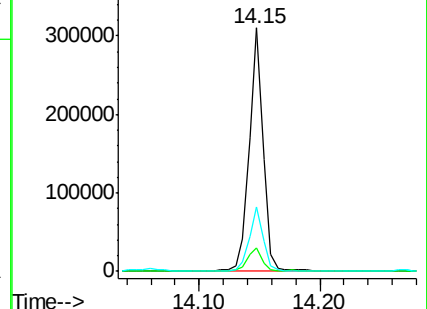
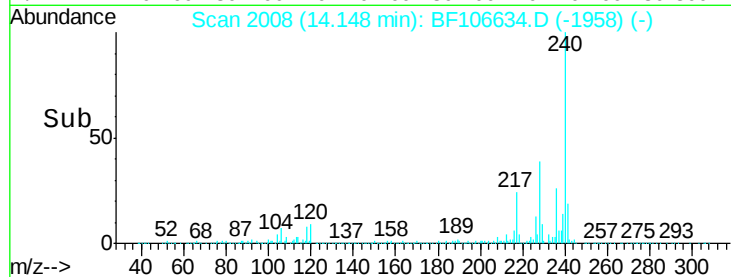
236 26.2 20.7 31.1



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: 61.768 ng

RT: 12.95 min Scan# 1804

Delta R.T. -0.00 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

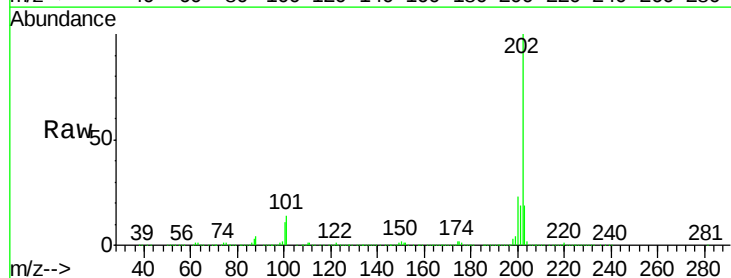
Tgt Ion:202 Resp: 1010700

Ion Ratio Lower Upper

202 100

200 22.9 17.4 26.2

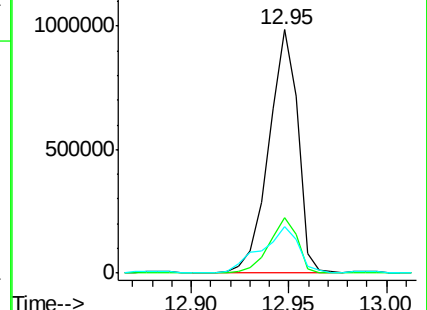
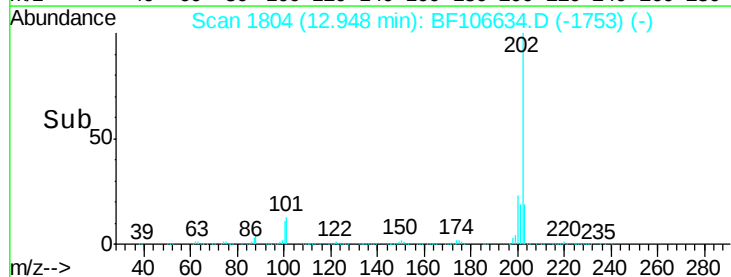
203 19.1 14.3 21.5

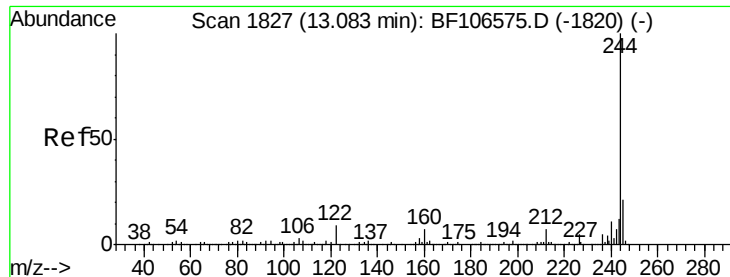


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 19.063 ng

RT: 13.08 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

PL-01-061818-B

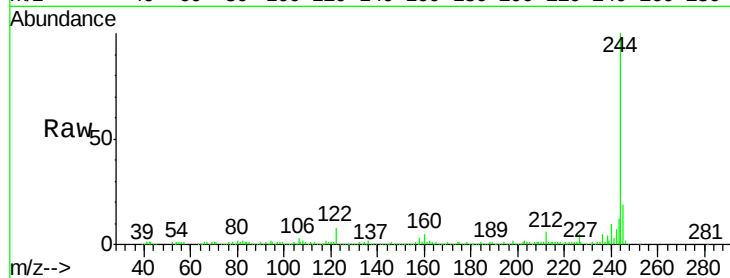
Tgt Ion:244 Resp: 195273

Ion Ratio Lower Upper

244 100

212 6.2 5.4 8.0

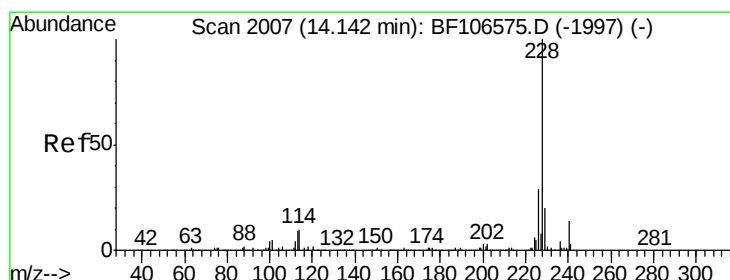
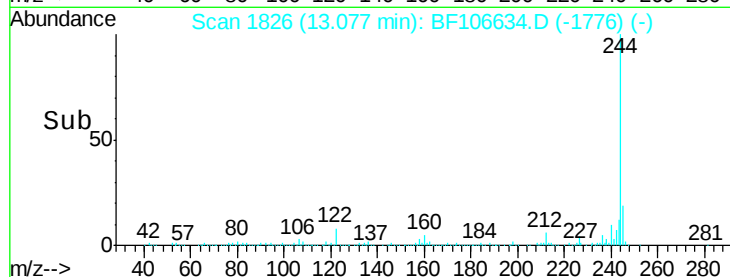
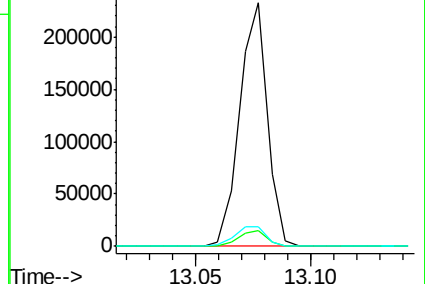
122 8.1 11.0 16.4#



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: 44.151 ng

RT: 14.14 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

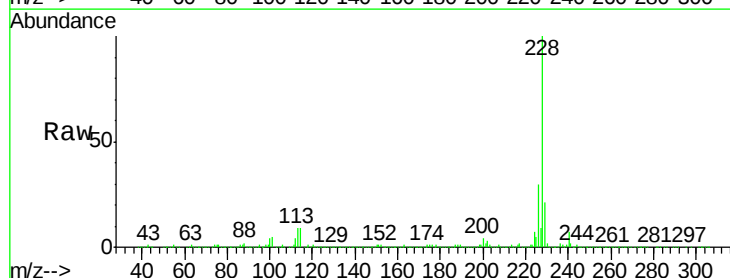
Tgt Ion:228 Resp: 667709

Ion Ratio Lower Upper

228 100

226 30.0 22.6 33.8

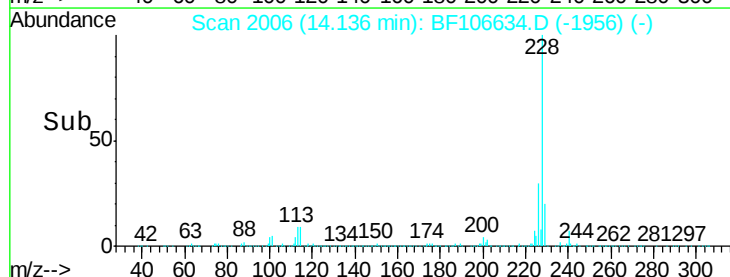
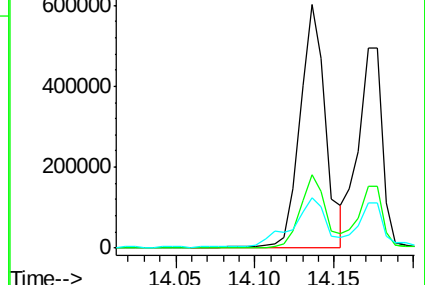
229 20.7 15.8 23.6

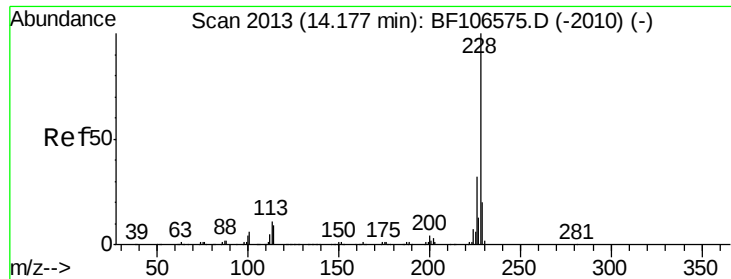


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 38.083 ng

RT: 14.17 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

PL-01-061818-B

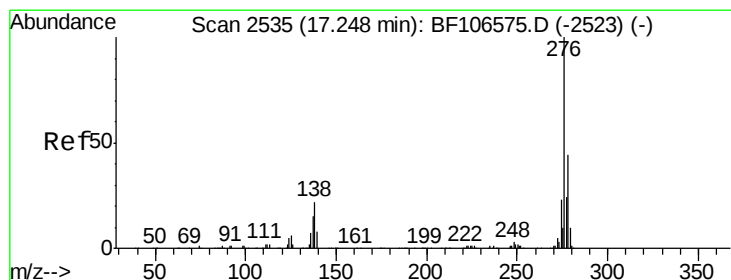
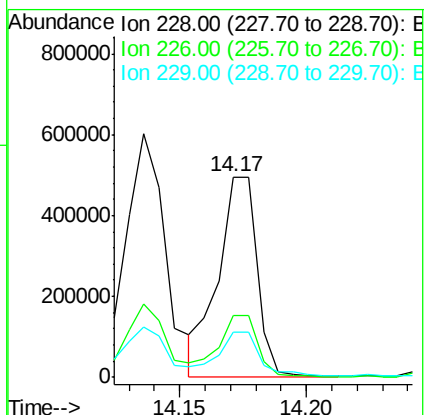
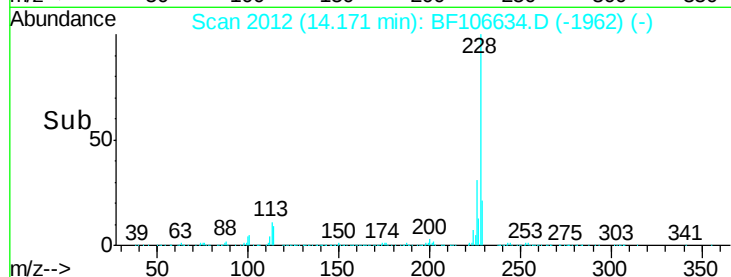
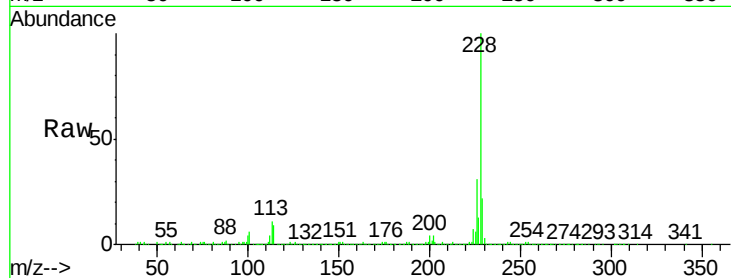
Tgt Ion:228 Resp: 529861

Ion Ratio Lower Upper

228 100

226 31.0 25.0 37.6

229 22.3 16.2 24.4



#85

Indeno(1,2,3-cd)pyrene

Concen: 20.485 ng

RT: 17.25 min Scan# 2535

Delta R.T. -0.00 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

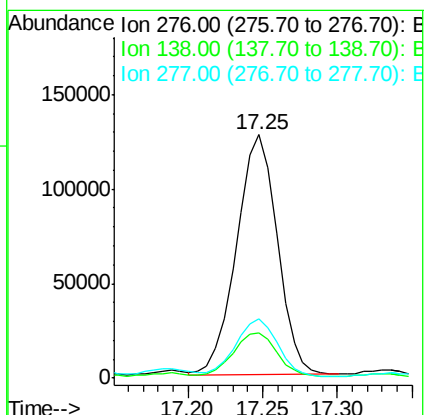
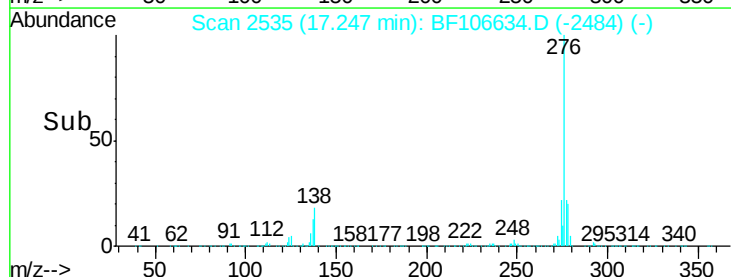
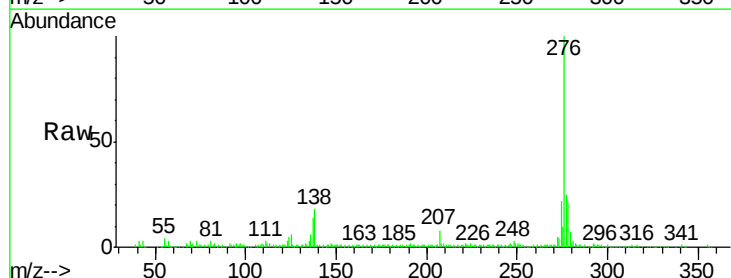
Tgt Ion:276 Resp: 241869

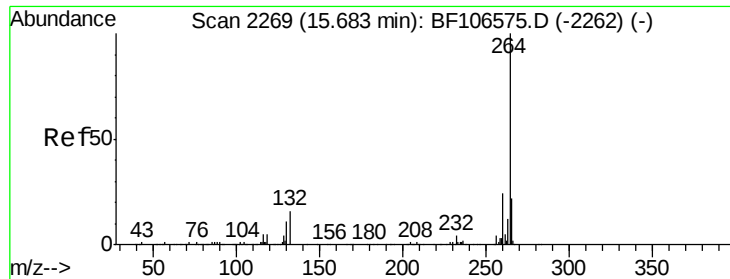
Ion Ratio Lower Upper

276 100

138 19.4 25.0 37.6#

277 24.3 20.1 30.1



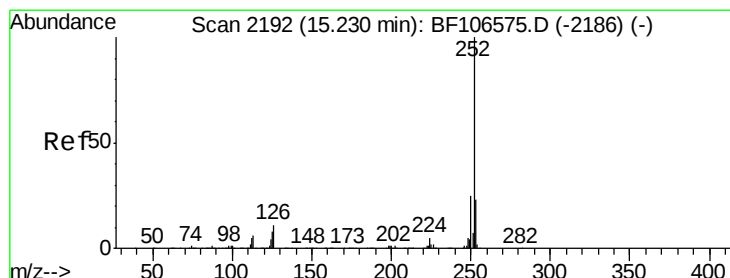
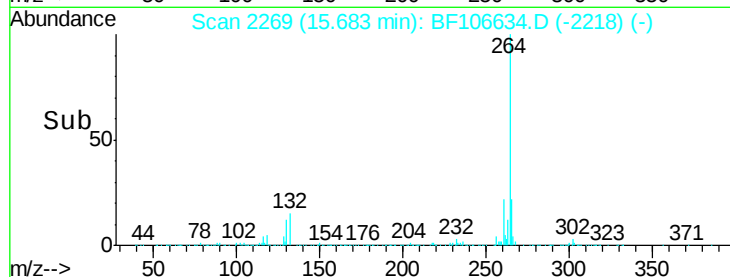
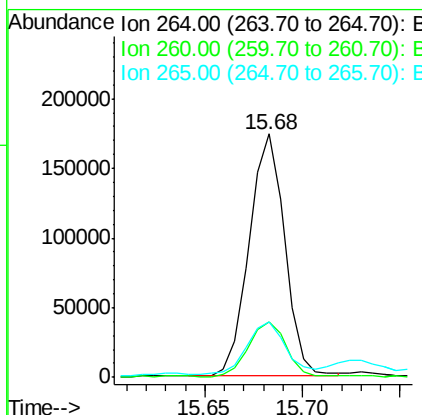
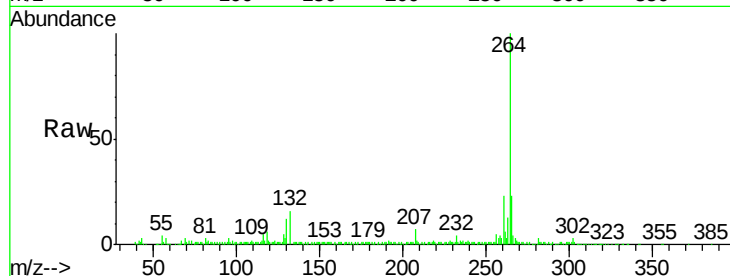


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.68 min Scan# 2269  
Delta R.T. -0.00 min  
Lab File: BF106634.D  
Acq: 20 Jun 2018 21:55

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-061818-B

Tgt Ion: 264 Resp: 219874  

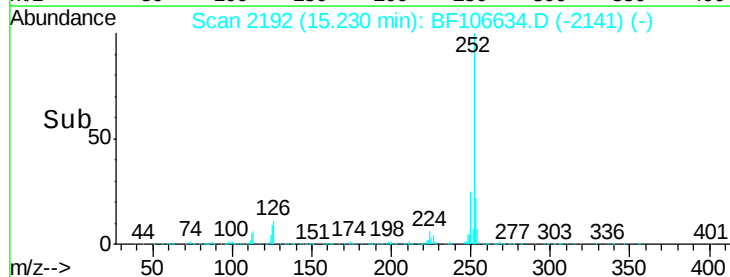
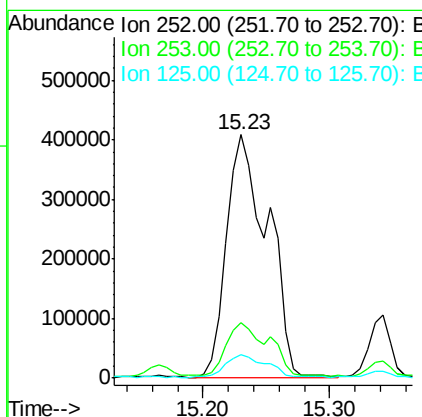
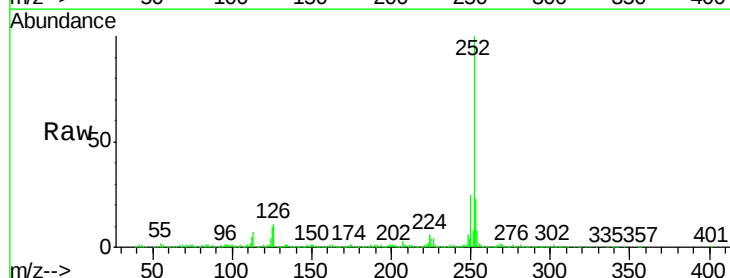
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.0  | 19.2  | 28.8  |
| 265 | 22.8  | 17.5  | 26.3  |

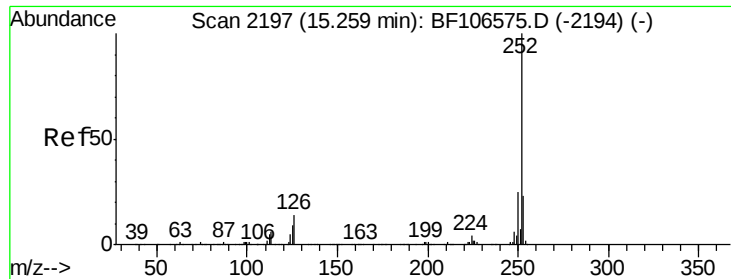


#87  
Benzo(b)fluoranthene  
Concen: 67.245 ng  
RT: 15.23 min Scan# 2192  
Delta R.T. -0.00 min  
Lab File: BF106634.D  
Acq: 20 Jun 2018 21:55

Tgt Ion: 252 Resp: 918461  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.9  | 17.0  | 25.6  |
| 125 | 9.8   | 9.0   | 13.6  |

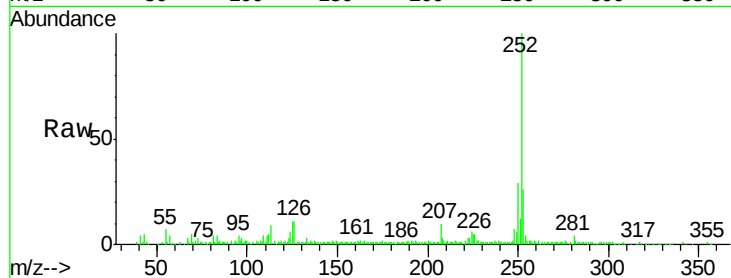




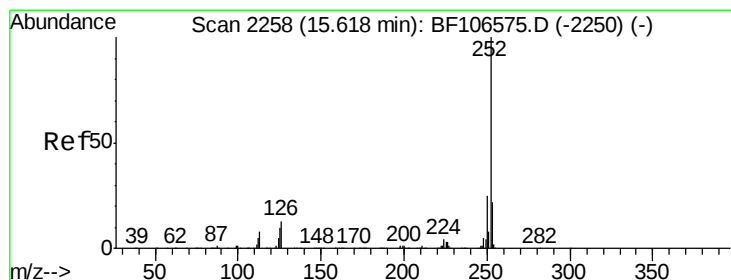
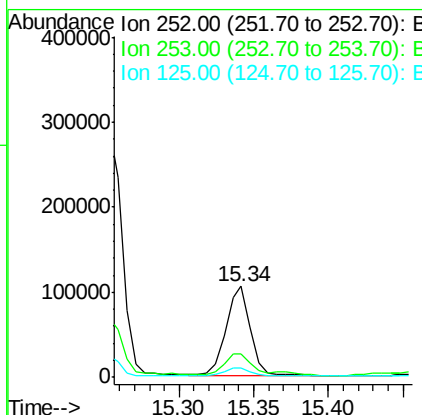
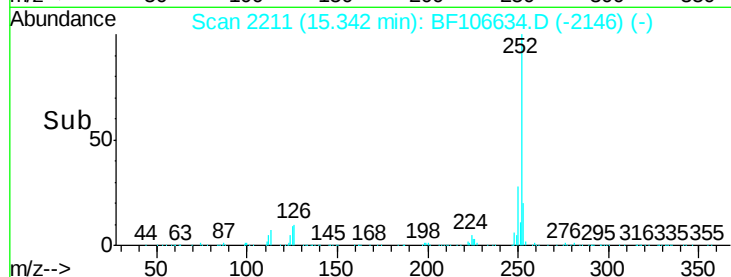
#88  
Benzo(k)fluoranthene  
Concen: 9.458 ng  
RT: 15.34 min Scan# 2211  
Delta R.T. 0.08 min  
Lab File: BF106634.D  
Acq: 20 Jun 2018 21:55

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-061818-B

Tgt Ion:252 Resp: 123023  
Ion Ratio Lower Upper  
252 100  
253 26.2 17.9 26.9  
125 10.9 10.2 15.2

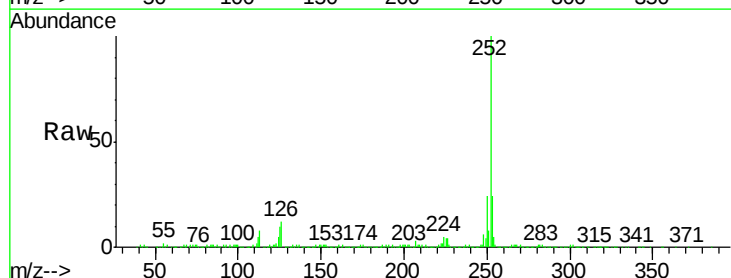


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

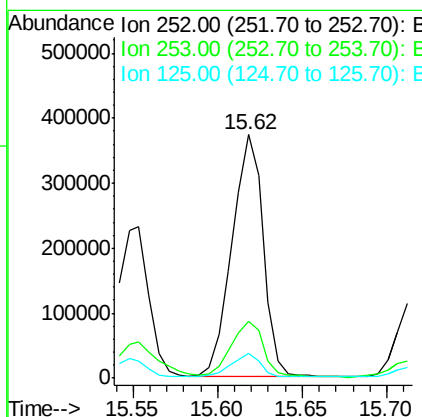
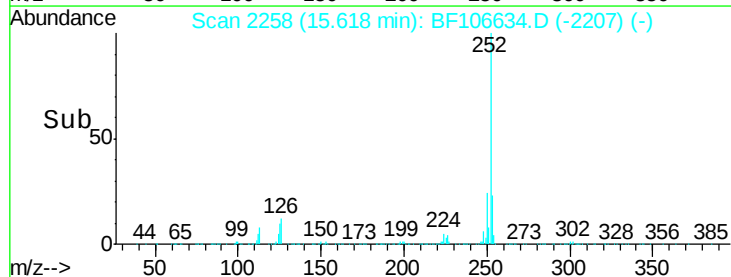


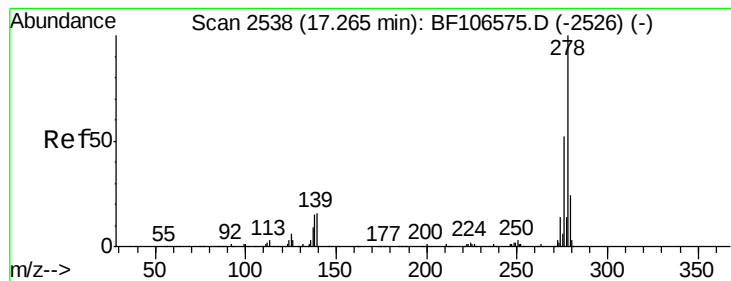
#89  
Benzo(a)pyrene  
Concen: 39.541 ng  
RT: 15.62 min Scan# 2258  
Delta R.T. -0.00 min  
Lab File: BF106634.D  
Acq: 20 Jun 2018 21:55

Tgt Ion:252 Resp: 480111  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.1 25.7  
125 10.0 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





#90

Dibenzo(a,h)anthracene

Concen: 5.331 ng

RT: 17.44 min Scan# 2567

Delta R.T. 0.17 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

PL-01-061818-B

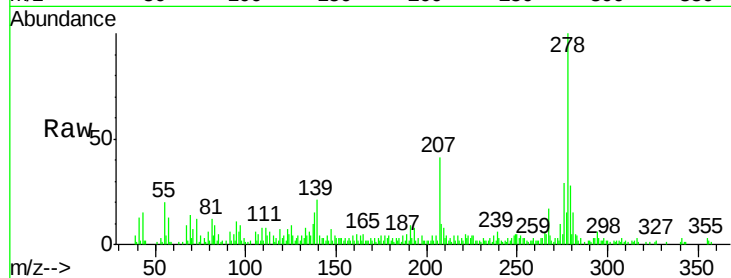
Tgt Ion:278 Resp: 54861

Ion Ratio Lower Upper

278 100

139 20.7 15.9 23.9

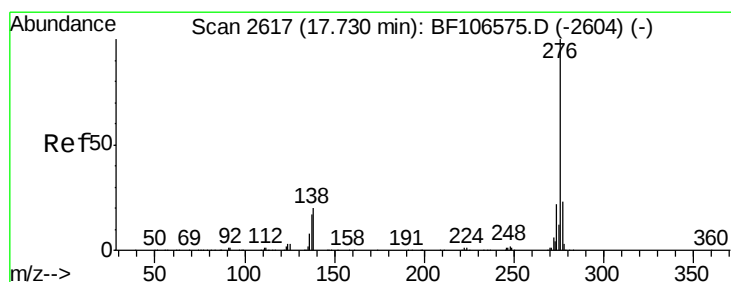
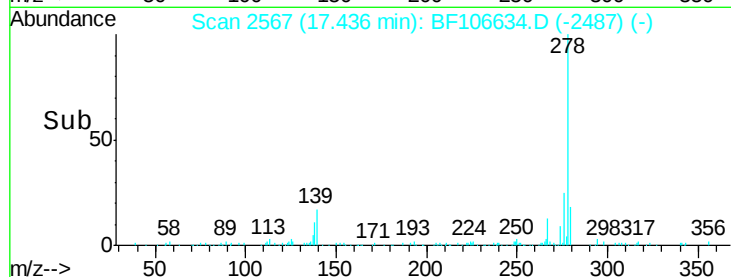
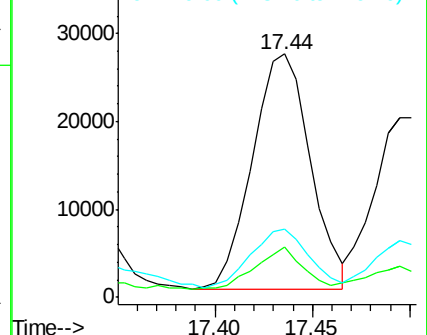
279 28.2 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 22.410 ng

RT: 17.73 min Scan# 2617

Delta R.T. -0.00 min

Lab File: BF106634.D

Acq: 20 Jun 2018 21:55

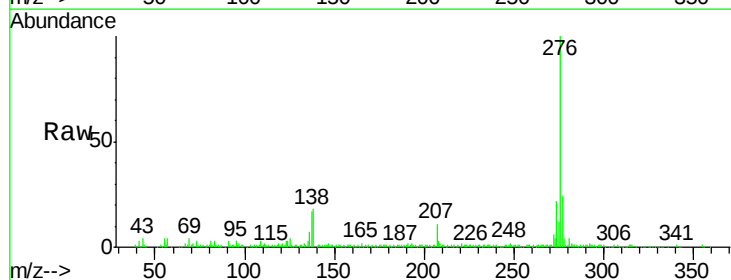
Tgt Ion:276 Resp: 225397

Ion Ratio Lower Upper

276 100

277 23.7 17.9 26.9

138 18.4 21.8 32.8#



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

