

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\  
 Data File : BF109111.D  
 Acq On : 18 Sep 2018 22:17  
 Operator : JU/SJ  
 Sample : J4959-01  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 19 04:04:25 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 14 13:26:52 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 147929   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.00  | 136  | 512962   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.75  | 164  | 201960   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.23 | 188  | 348346   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.87 | 240  | 359147   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.27 | 264  | 326773   | 20.00 | ng    | 0.01     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.33  | 112 | 536314 | 60.22 | ng | 0.00  |
| 7) Phenol-d6                | 6.35  | 99  | 689899 | 60.07 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.28  | 82  | 417777 | 45.68 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330 | 128729 | 58.73 | ng | 0.00  |
| 44) 2-Fluorobiphenyl        | 9.08  | 172 | 677405 | 52.55 | ng | 0.00  |
| 78) Terphenyl-d14           | 12.81 | 244 | 606120 | 40.00 | ng | 0.00  |

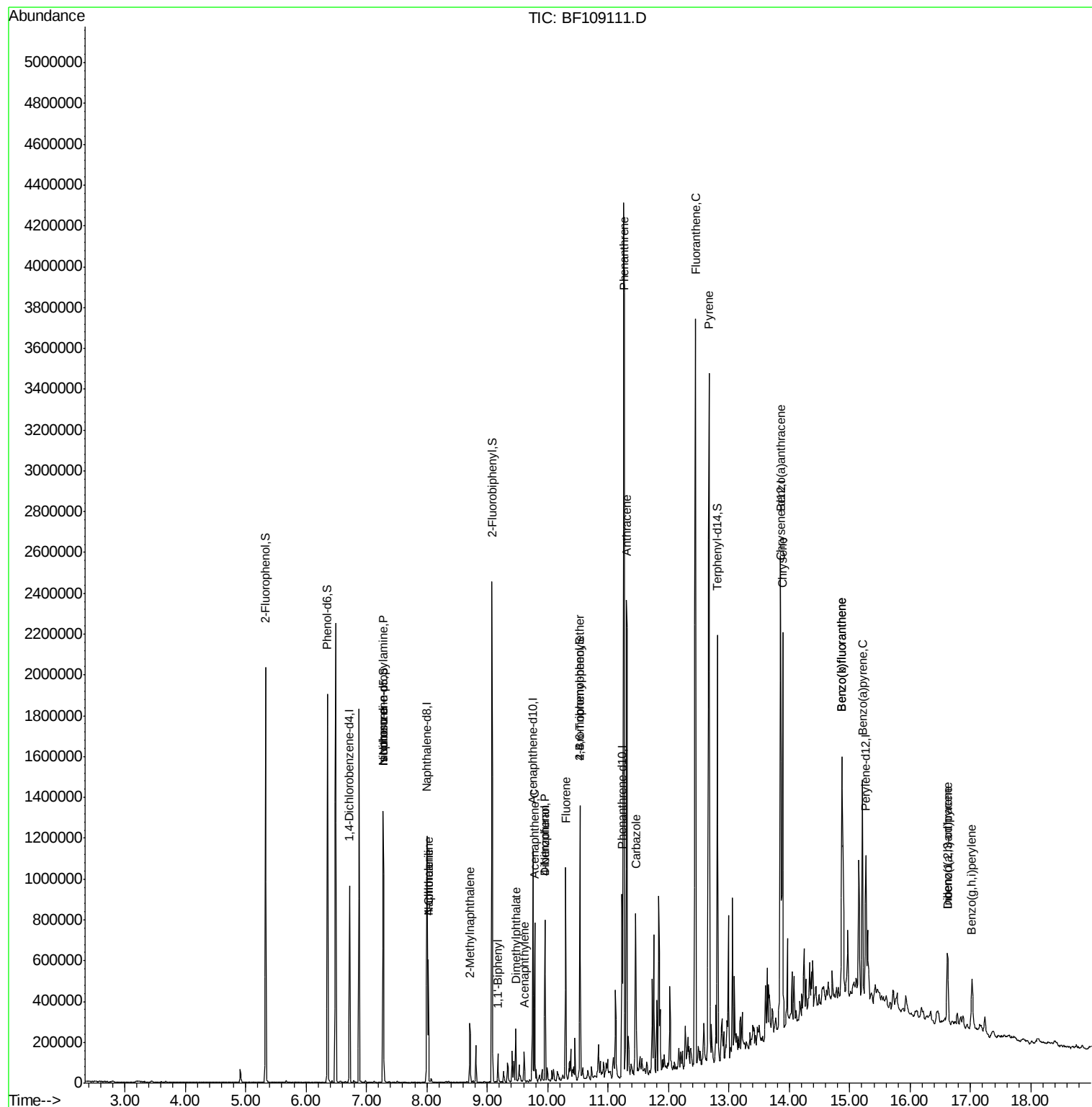
|                                |       |     |         |         |    |      |
|--------------------------------|-------|-----|---------|---------|----|------|
| Target Compounds               |       |     |         | Qvalue  |    |      |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70  | 55567   | 7.320   | ng | # 78 |
| 25) Isophorone                 | 7.28  | 82  | 417771  | 26.574  | ng | # 64 |
| 31) Naphthalene                | 8.02  | 128 | 231837  | 9.738   | ng | 98   |
| 33) 4-Chloroaniline            | 8.02  | 127 | 28893   | 2.729   | ng | # 37 |
| 37) 2-Methylnaphthalene        | 8.71  | 142 | 74931   | 4.828   | ng | 99   |
| 45) 1,1'-Biphenyl              | 9.18  | 154 | 38093   | 2.358   | ng | 95   |
| 48) Acenaphthylene             | 9.61  | 152 | 43226   | 2.216   | ng | 98   |
| 49) Dimethylphthalate          | 9.47  | 163 | 93018   | 6.444   | ng | # 98 |
| 51) Acenaphthene               | 9.78  | 154 | 147878  | 12.172  | ng | 98   |
| 54) Dibenzofuran               | 9.95  | 168 | 251803  | 14.343  | ng | 99   |
| 55) 4-Nitrophenol              | 9.95  | 139 | 92741   | 33.393  | ng | # 10 |
| 57) Fluorene                   | 10.30 | 166 | 271264  | 23.187  | ng | 100  |
| 66) 4-Bromophenyl-phenylether  | 10.54 | 248 | 8150    | 2.075   | ng | # 1  |
| 70) Phenanthrene               | 11.26 | 178 | 1790345 | 104.846 | ng | 98   |
| 71) Anthracene                 | 11.31 | 178 | 920813  | 53.196  | ng | 99   |
| 72) Carbazole                  | 11.46 | 167 | 314204  | 18.337  | ng | 99   |
| 74) Fluoranthene               | 12.45 | 202 | 1673662 | 92.841  | ng | 96   |
| 77) Pyrene                     | 12.67 | 202 | 1507799 | 56.521  | ng | 98   |
| 80) Benzo(a)anthracene         | 13.85 | 228 | 776684  | 35.720  | ng | 98   |
| 82) Chrysene                   | 13.89 | 228 | 720969  | 33.141  | ng | 98   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.62 | 276 | 224317  | 12.897  | ng | # 89 |
| 87) Benzo(b)fluoranthene       | 14.87 | 252 | 916059  | 50.673  | ng | 96   |
| 88) Benzo(k)fluoranthene       | 14.87 | 252 | 916059  | 54.253  | ng | 97   |
| 89) Benzo(a)pyrene             | 15.21 | 252 | 508990  | 31.704  | ng | 97   |
| 90) Dibenzo(a,h)anthracene     | 16.62 | 278 | 54384   | 4.032   | ng | 97   |
| 91) Benzo(g,h,i)perylene       | 17.02 | 276 | 196103  | 14.542  | ng | 92   |

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

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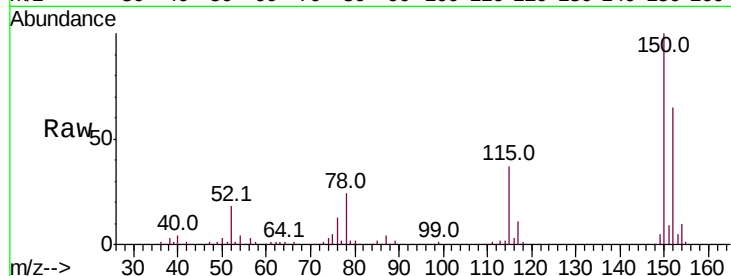


#1

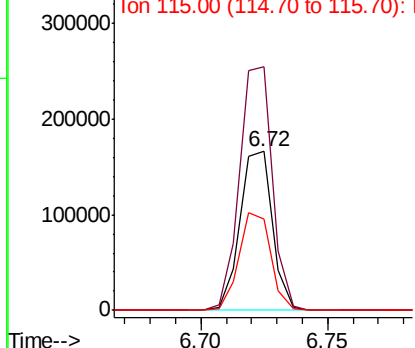
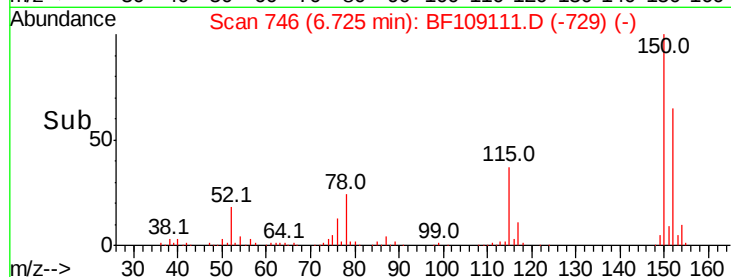
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 746  
Delta R.T. -0.00 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 147929  
Ion Ratio Lower Upper  
152 100  
150 153.3 124.6 186.8  
115 57.2 50.1 75.1



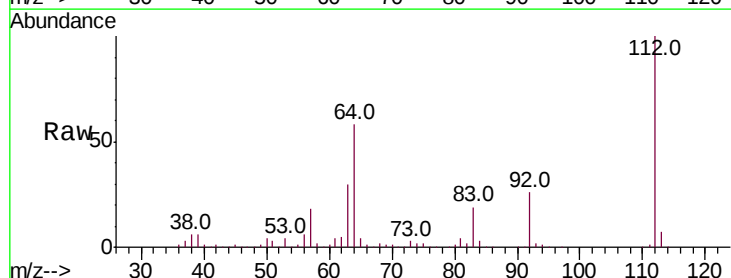
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



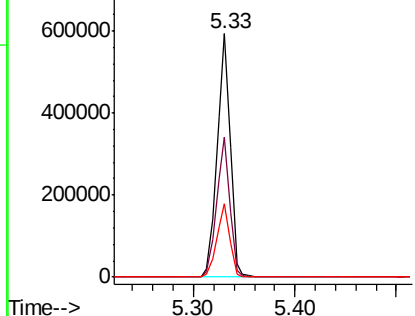
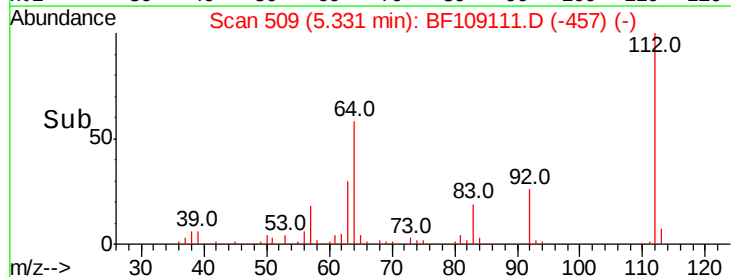
#5

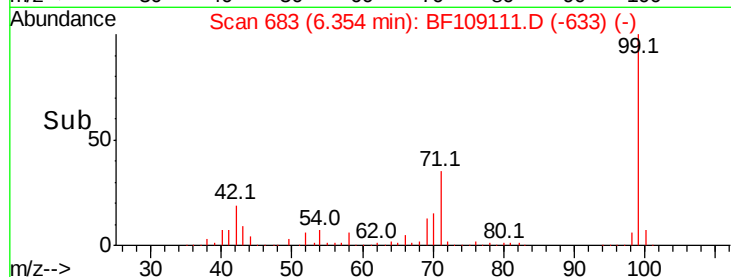
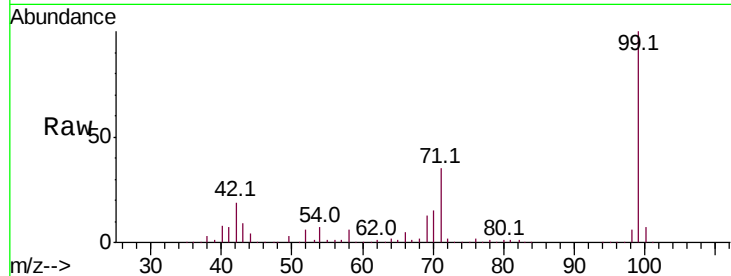
2-Fluorophenol  
Concen: 60.215 ng  
RT: 5.33 min Scan# 509  
Delta R.T. 0.01 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

Tgt Ion:112 Resp: 536314  
Ion Ratio Lower Upper  
112 100  
64 57.6 47.9 71.9  
63 30.3 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 60.071 ng

RT: 6.35 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

Instrument :

BNA\_F

ClientSampleId :

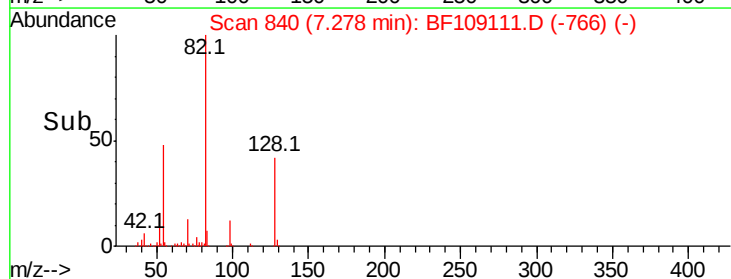
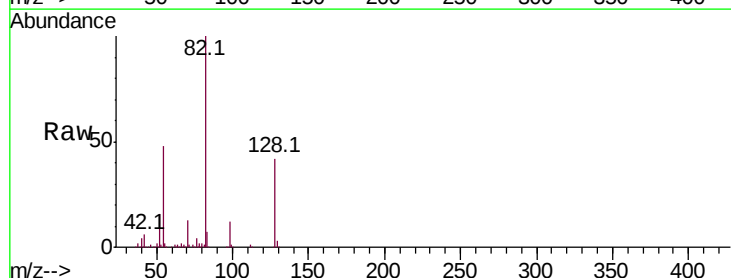
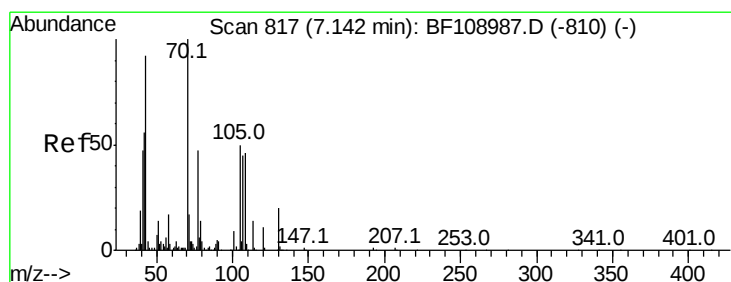
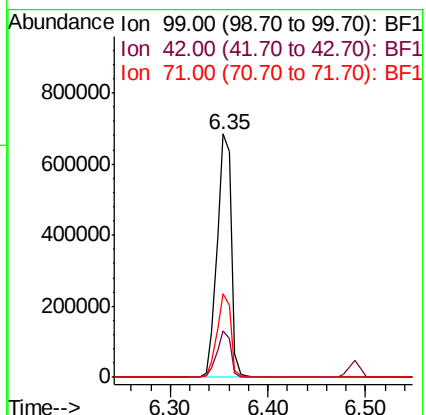
Tot Ion: 99 Resp: 689899

Ion Ratio Lower Upper

99 100

42 19.1 14.5 21.7

71 34.6 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 7.320 ng

RT: 7.28 min Scan# 840

Delta R.T. 0.14 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

Tgt Ion: 70 Resp: 55567

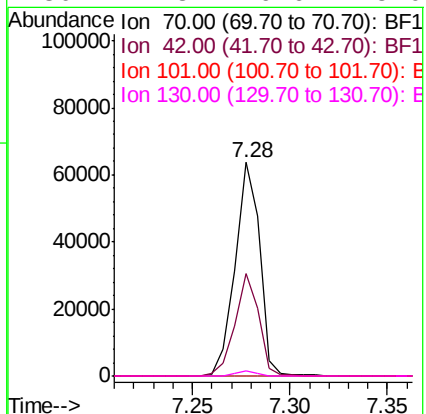
Ion Ratio Lower Upper

70 100

42 47.8 47.5 71.3

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

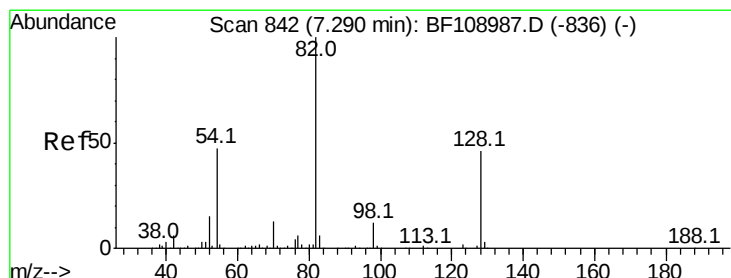
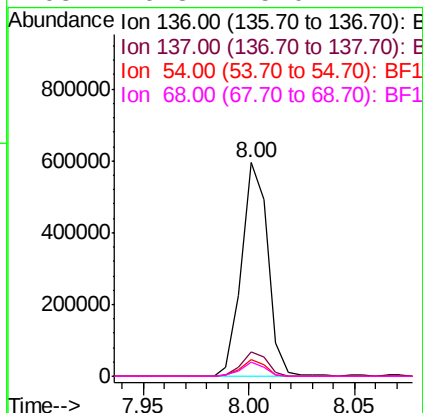
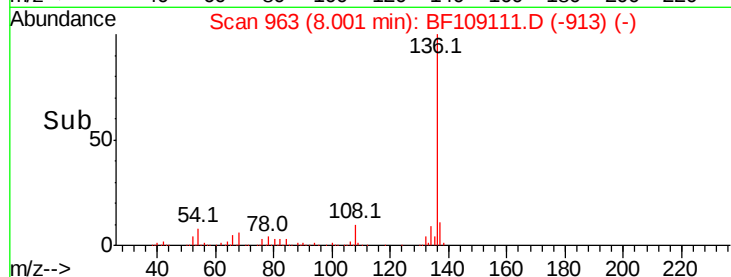
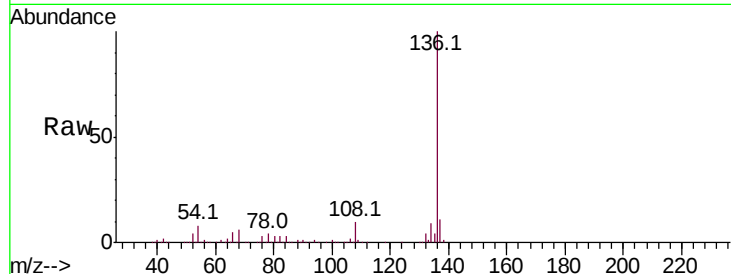




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 963  
Delta R.T. -0.01 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

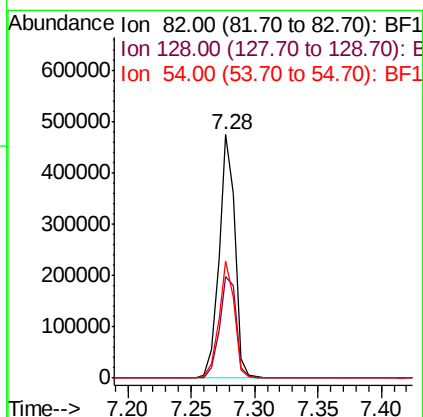
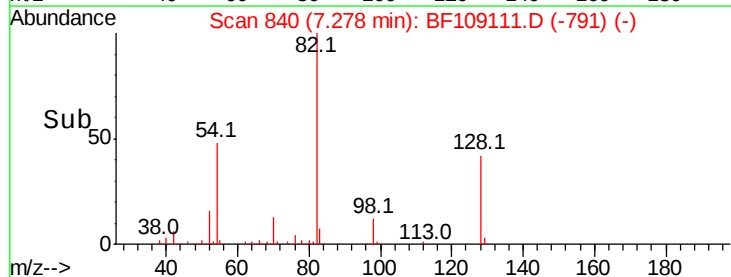
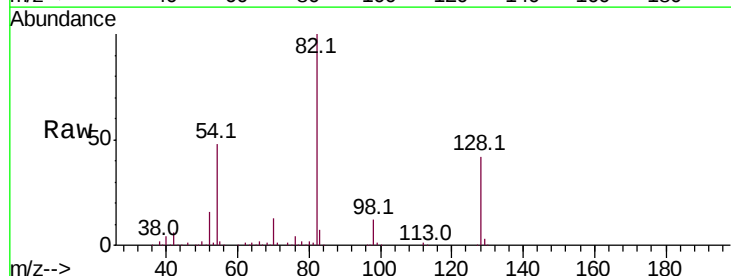
Instrument :  
BNA\_F  
ClientSampleId :

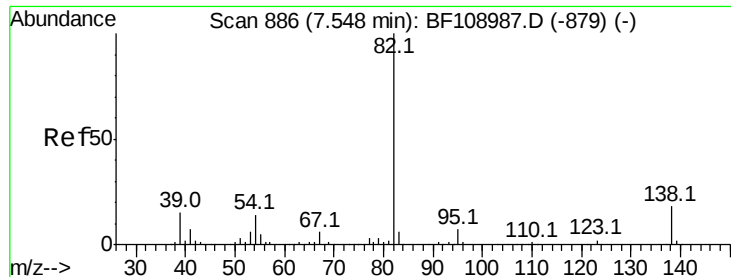
|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 512962 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 11.2    | 8.9 13.3     |
| 54 7.8      | 6.6 9.8      |
| 68 6.3      | 5.0 7.4      |



#23  
Nitrobenzene-d5  
Concen: 45.681 ng  
RT: 7.28 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 417777 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 41.9    | 36.1 54.1    |
| 54 47.8     | 41.4 62.2    |





#25

Isophorone

Concen: 26.574 ng

RT: 7.28 min Scan# 840

Delta R.T. -0.27 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

Instrument :

BNA\_F

ClientSampleId :

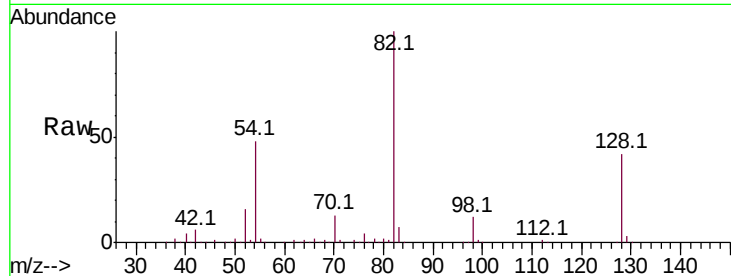
Tot Ion: 82 Resp: 417771

Ion Ratio Lower Upper

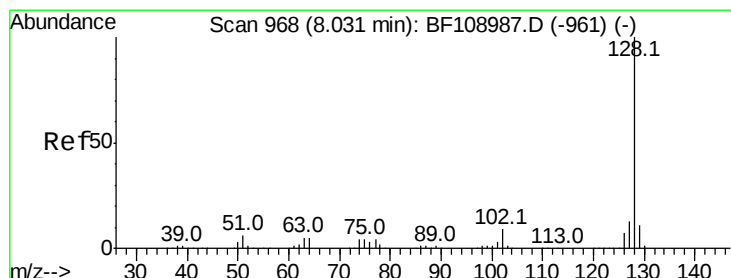
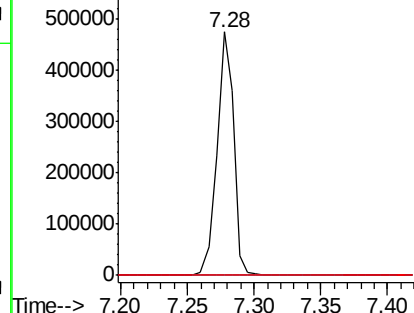
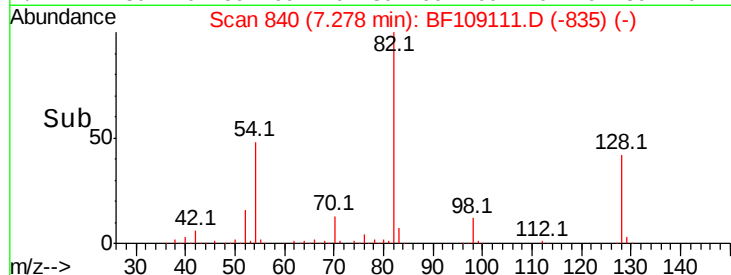
82 100

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: 9.738 ng

RT: 8.02 min Scan# 967

Delta R.T. -0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

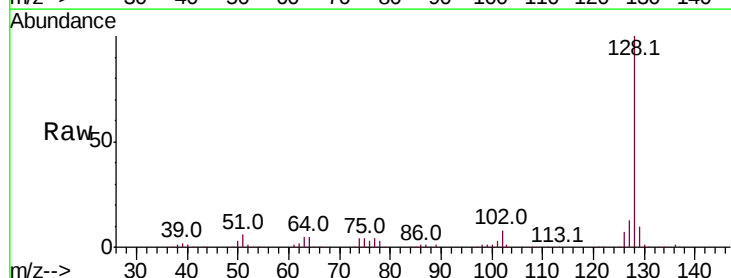
Tgt Ion: 128 Resp: 231837

Ion Ratio Lower Upper

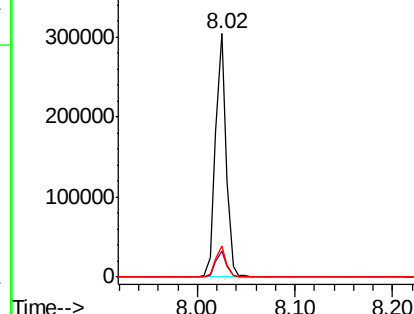
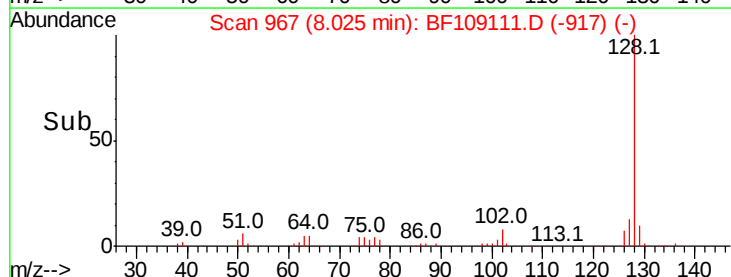
128 100

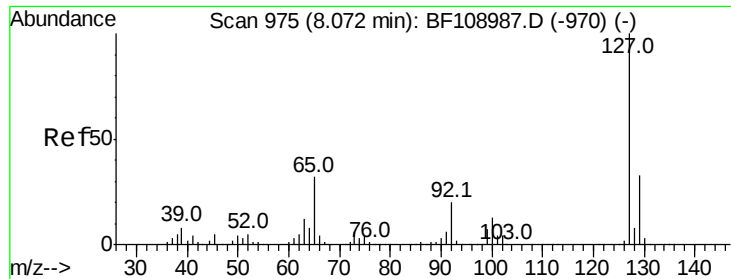
129 10.4 8.8 13.2

127 12.9 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

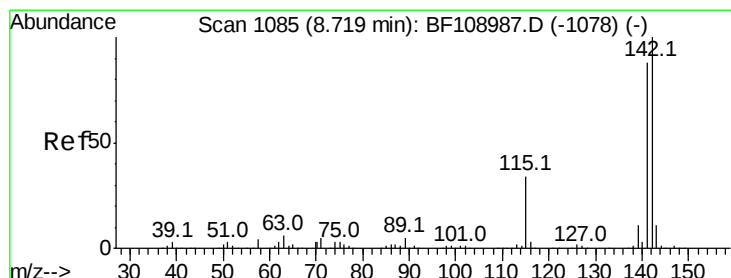
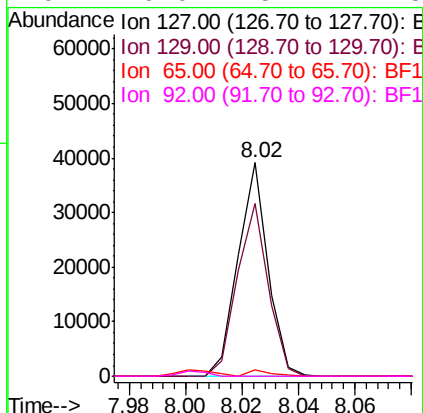
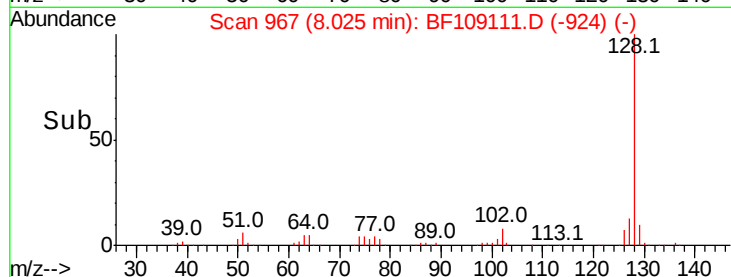
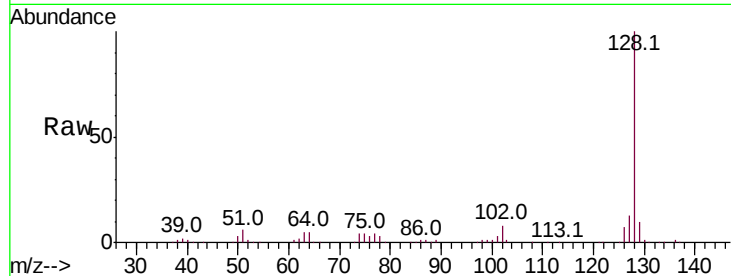




#33  
4-Chloroaniline  
Concen: 2.729 ng  
RT: 8.02 min Scan# 967  
Delta R.T. -0.05 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

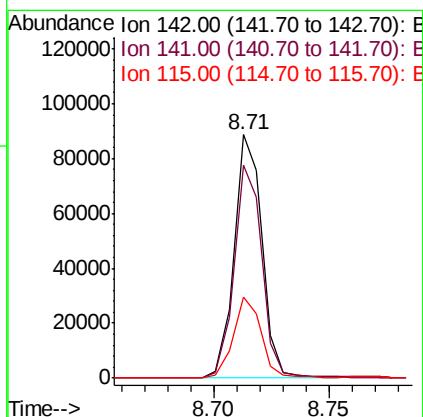
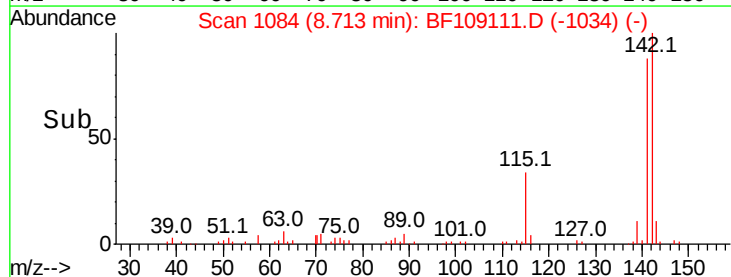
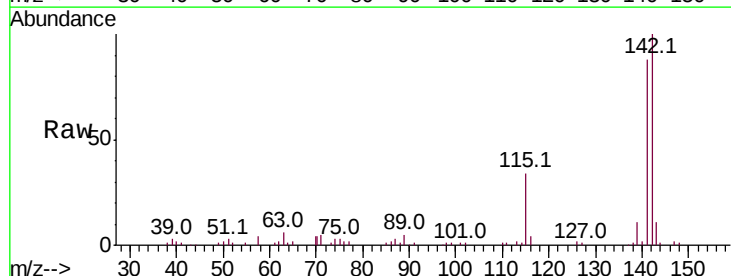
Instrument :  
BNA\_F  
ClientSampleId :

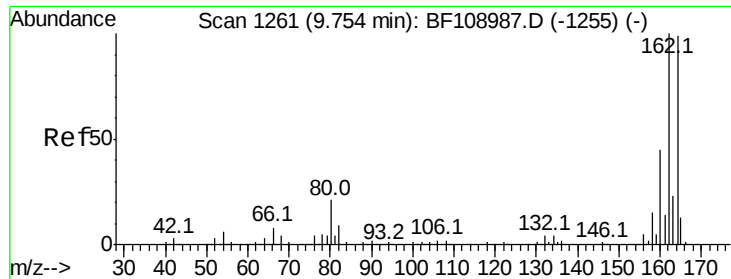
|             |       |       |
|-------------|-------|-------|
| Tot Ion:127 | Resp: | 28893 |
| Ion Ratio   | Lower | Upper |
| 127 100     |       |       |
| 129 81.1    | 25.9  | 38.9# |
| 65 3.1      | 25.0  | 37.4# |
| 92 0.0      | 15.2  | 22.8# |



#37  
2-Methylnaphthalene  
Concen: 4.828 ng  
RT: 8.71 min Scan# 1084  
Delta R.T. -0.01 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:142 | Resp: | 74931 |
| Ion Ratio   | Lower | Upper |
| 142 100     |       |       |
| 141 87.6    | 70.8  | 106.2 |
| 115 33.5    | 26.1  | 39.1  |

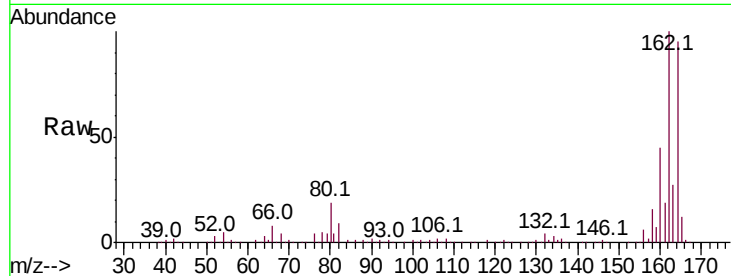




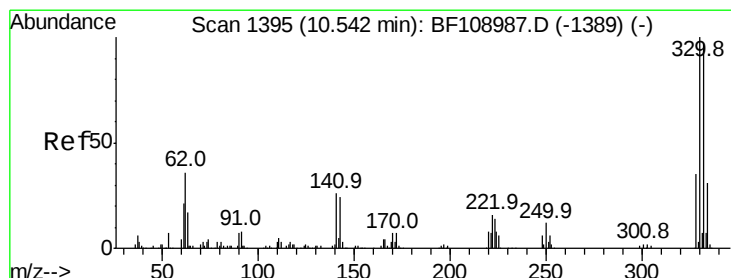
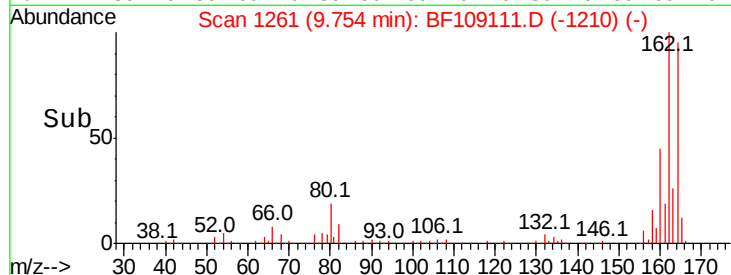
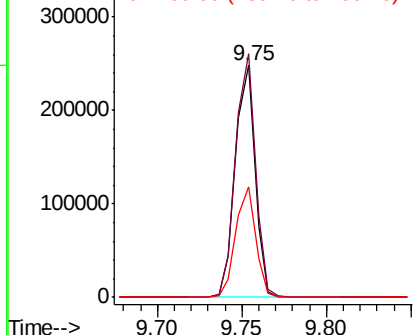
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.75 min Scan# 1261  
Delta R.T. -0.00 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.2 | 86.1  | 129.1 |
| 160     | 47.7  | 38.3  | 57.5  |

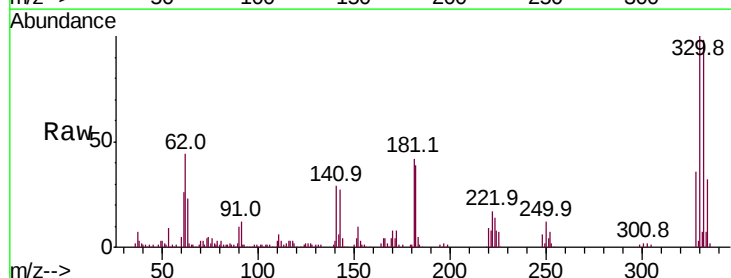


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

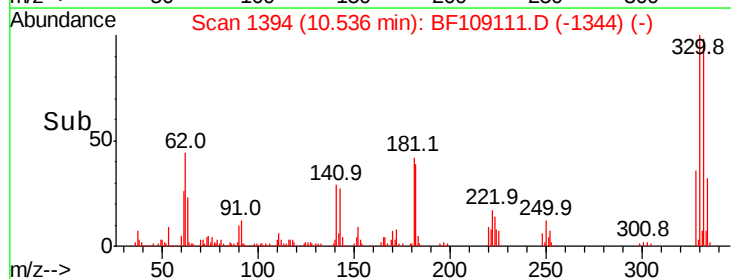
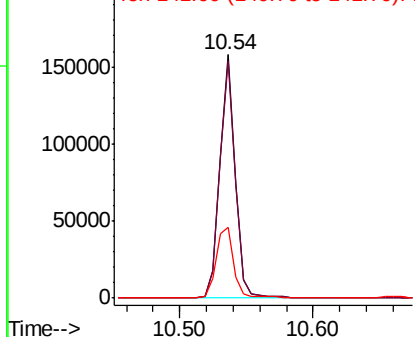


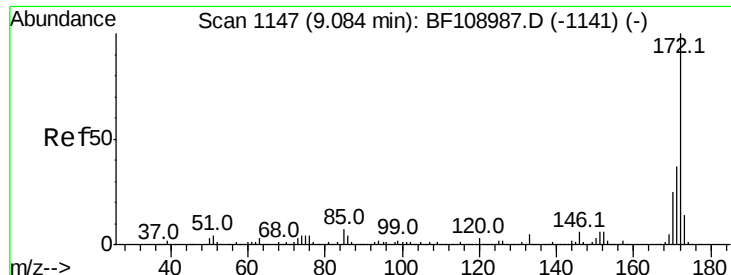
#41  
2,4,6-Tribromophenol  
Concen: 58.732 ng  
RT: 10.54 min Scan# 1394  
Delta R.T. -0.01 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.5  | 77.0  | 115.6 |
| 141     | 34.3  | 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

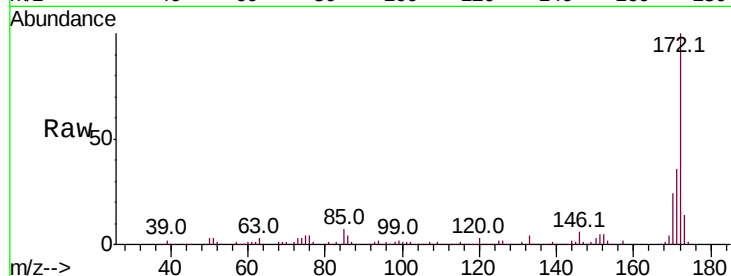




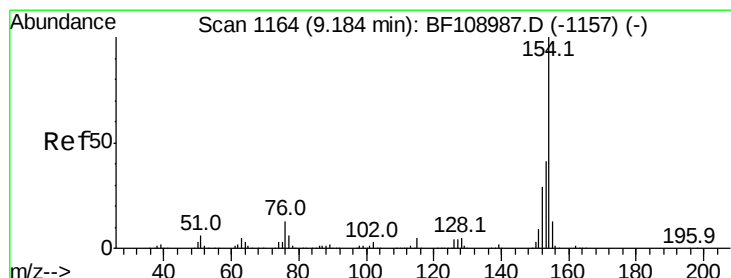
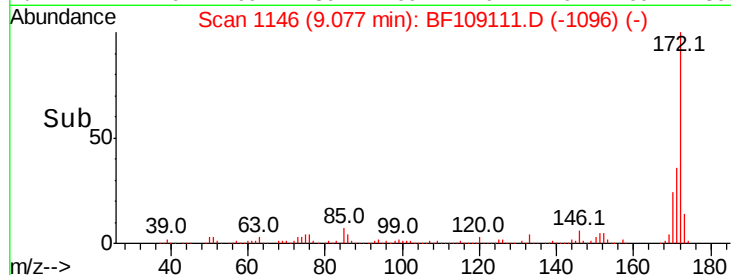
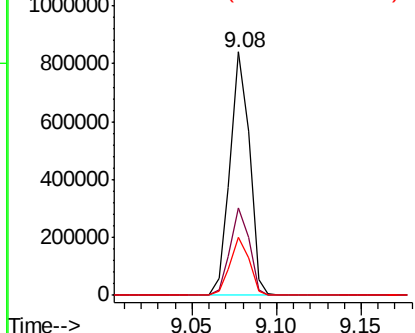
#44  
 2-Fluorobiphenyl  
 Concen: 52.551 ng  
 RT: 9.08 min Scan# 1146  
 Delta R.T. -0.01 min  
 Lab File: BF109111.D  
 Acq: 18 Sep 2018 22:17

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.7  | 44.5  |
| 170     | 24.0  | 19.6  | 29.4  |

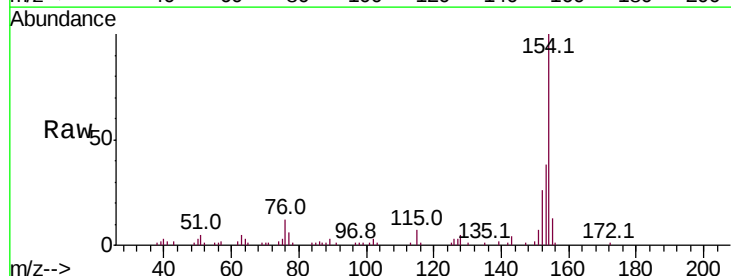


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

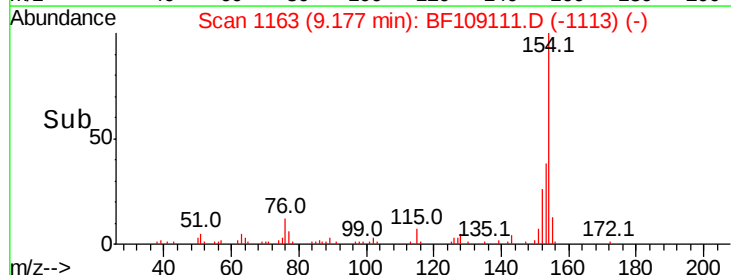
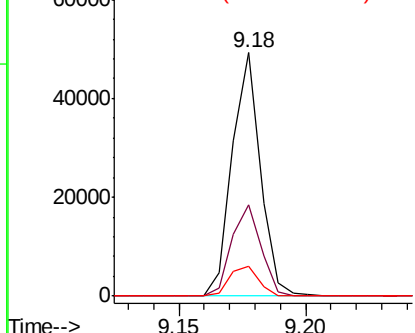


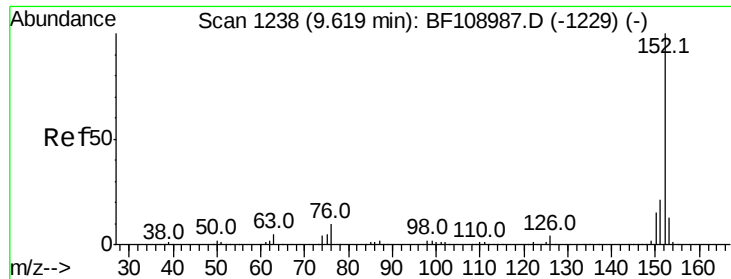
#45  
 1,1'-Biphenyl  
 Concen: 2.358 ng  
 RT: 9.18 min Scan# 1163  
 Delta R.T. -0.01 min  
 Lab File: BF109111.D  
 Acq: 18 Sep 2018 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 37.8  | 21.3  | 61.3  |
| 76      | 12.4  | 0.0   | 34.0  |



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BF1





#48

Acenaphthylene

Concen: 2.216 ng

RT: 9.61 min Scan# 1237

Delta R.T. -0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

Instrument :

BNA\_F

ClientSampleId :

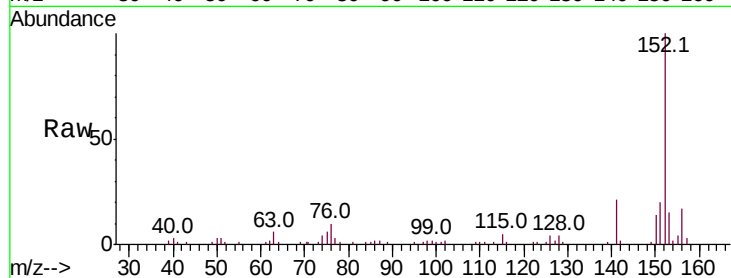
Tot Ion:152 Resp: 43226

Ion Ratio Lower Upper

152 100

151 20.5 16.3 24.5

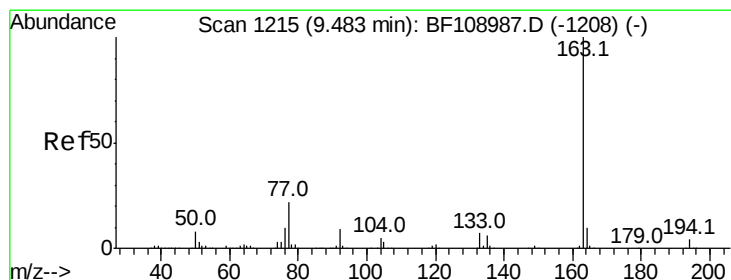
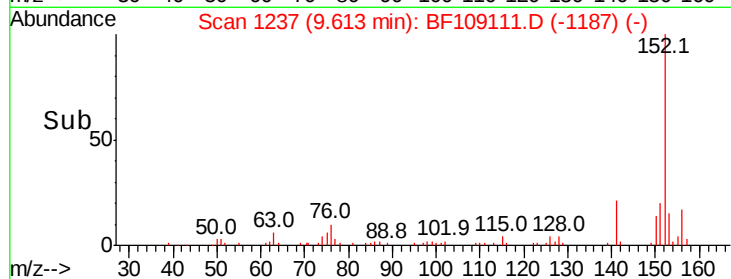
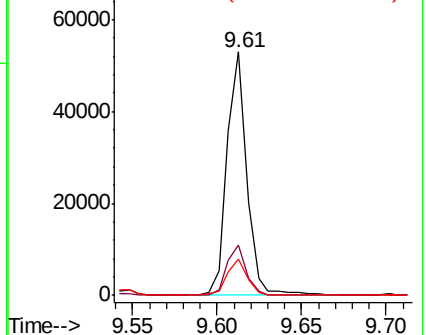
153 15.1 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 6.444 ng

RT: 9.47 min Scan# 1213

Delta R.T. -0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

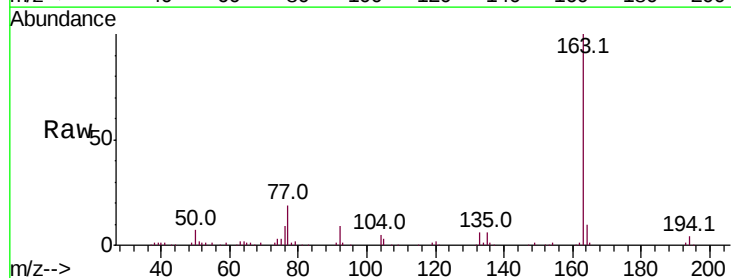
Tgt Ion:163 Resp: 93018

Ion Ratio Lower Upper

163 100

194 4.3 2.7 4.1#

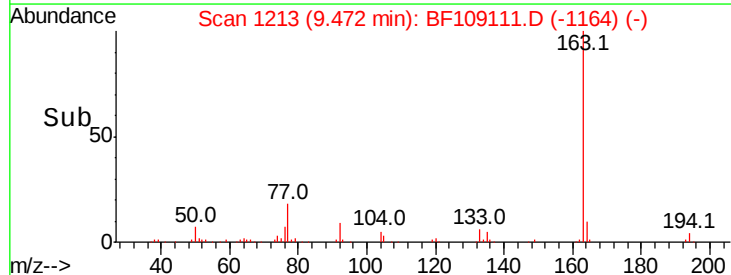
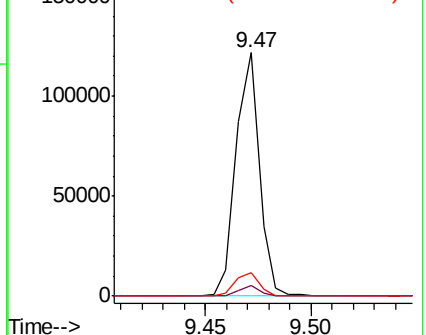
164 9.5 8.2 12.2

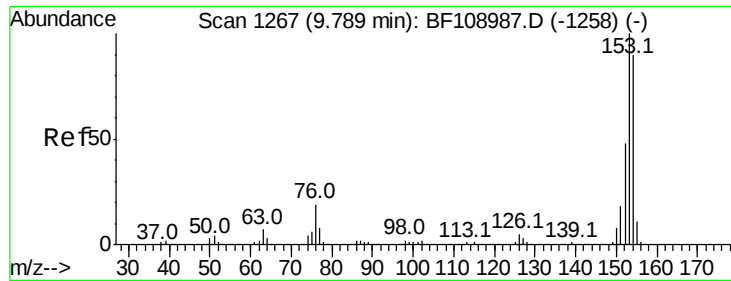


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 12.172 ng

RT: 9.78 min Scan# 1266

Delta R.T. -0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

Instrument :

BNA\_F

ClientSampleId :

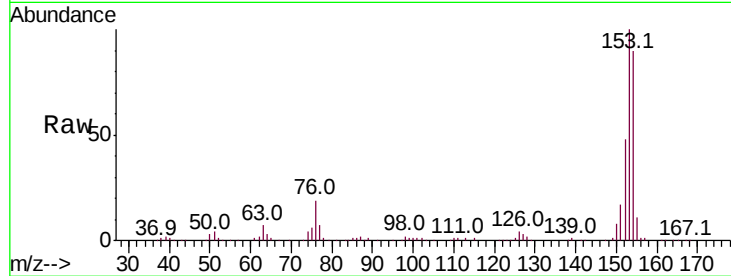
Tot Ion:154 Resp: 147878

Ion Ratio Lower Upper

154 100

153 111.4 91.2 136.8

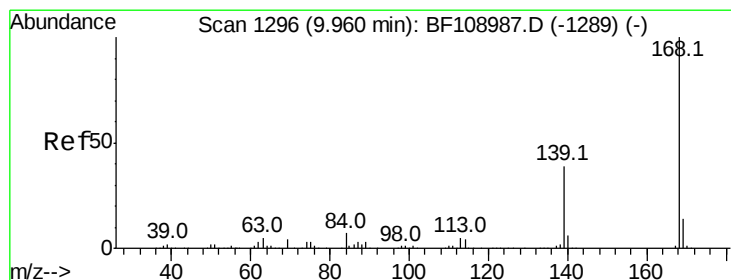
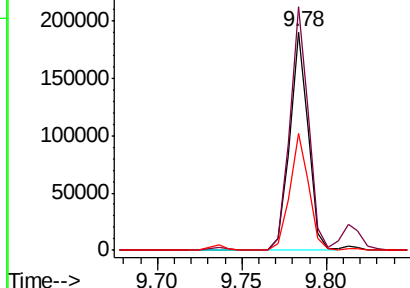
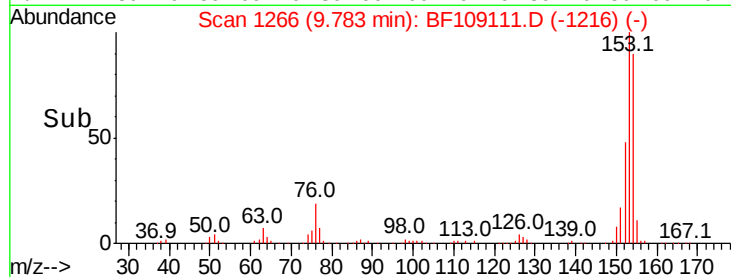
152 53.8 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 14.343 ng

RT: 9.95 min Scan# 1295

Delta R.T. -0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

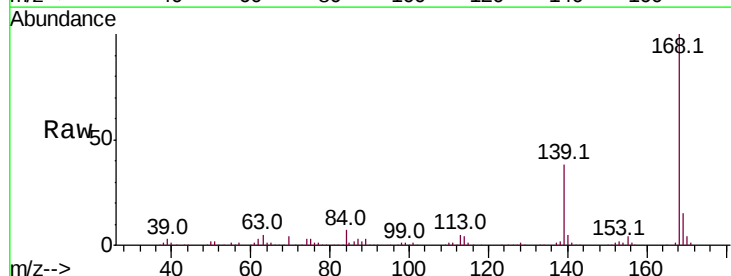
Tgt Ion:168 Resp: 251803

Ion Ratio Lower Upper

168 100

139 38.2 30.1 45.1

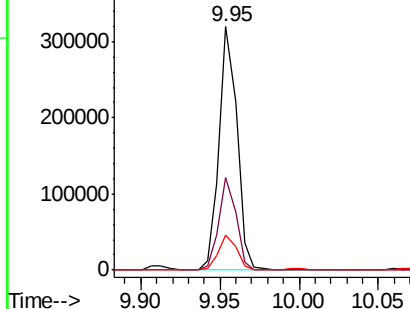
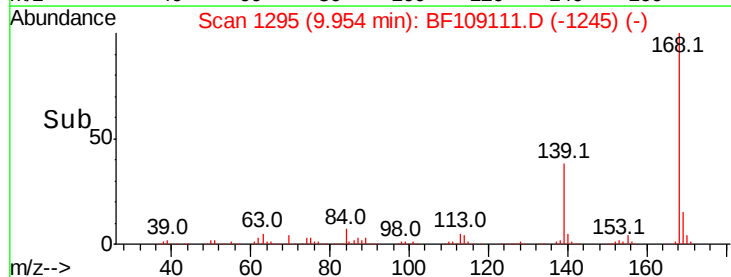
169 14.5 10.9 16.3

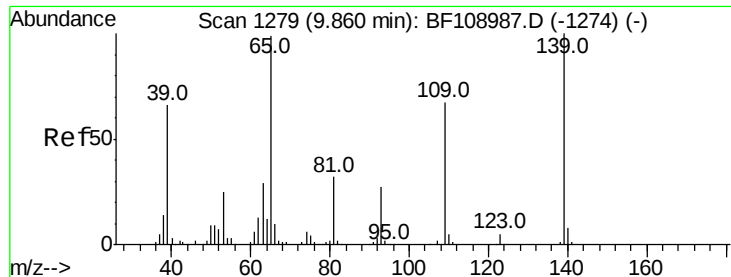


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

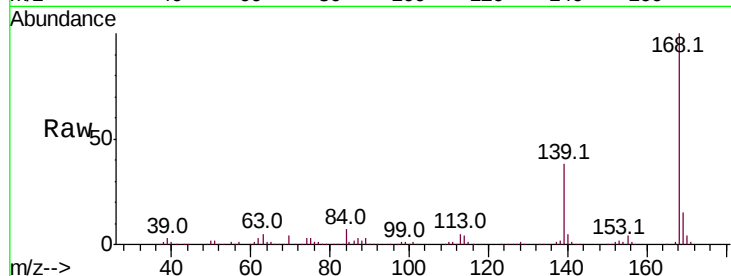




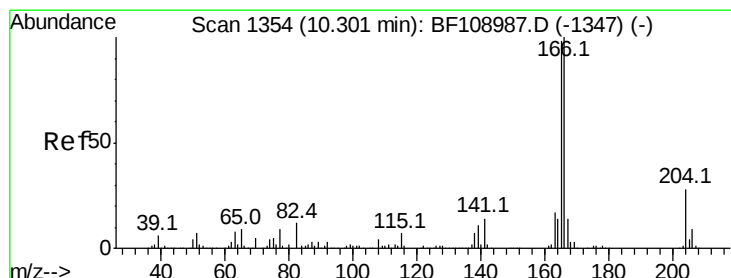
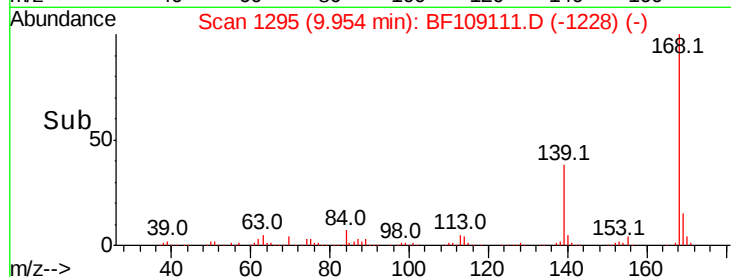
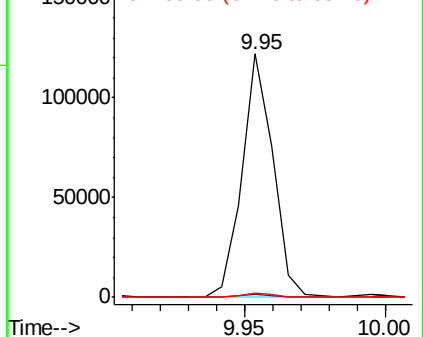
#55  
4-Nitrophenol  
Concen: 33.393 ng  
RT: 9.95 min Scan# 1295  
Delta R.T. 0.09 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:139 Resp: 92741  
Ion Ratio Lower Upper  
139 100  
109 1.1 48.4 88.4#  
65 1.8 72.6 112.6#

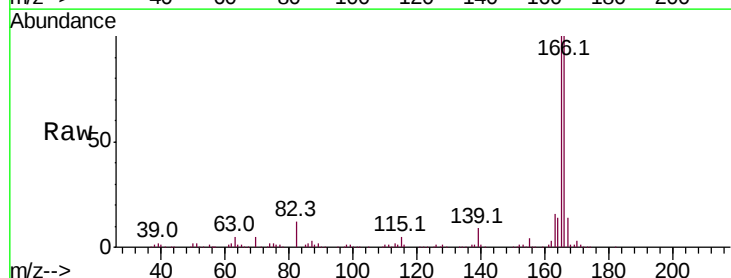


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF1

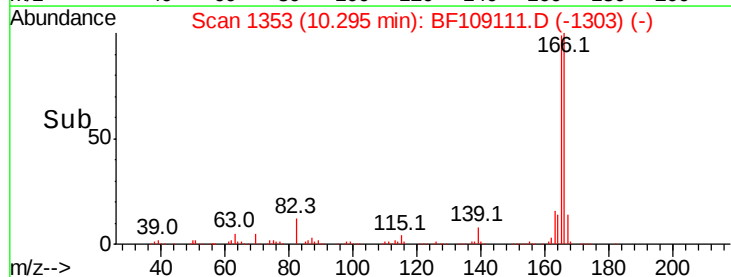
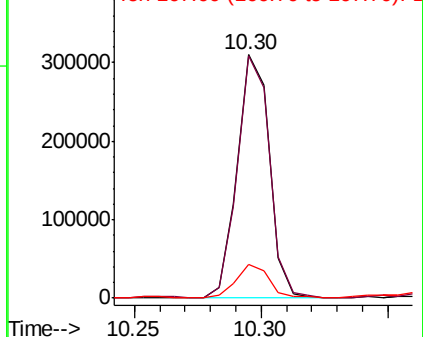


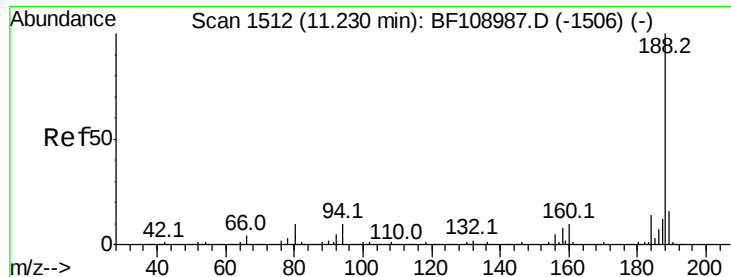
#57  
Fluorene  
Concen: 23.187 ng  
RT: 10.30 min Scan# 1353  
Delta R.T. -0.01 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

Tgt Ion:166 Resp: 271264  
Ion Ratio Lower Upper  
166 100  
165 99.5 79.8 119.8  
167 13.8 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E

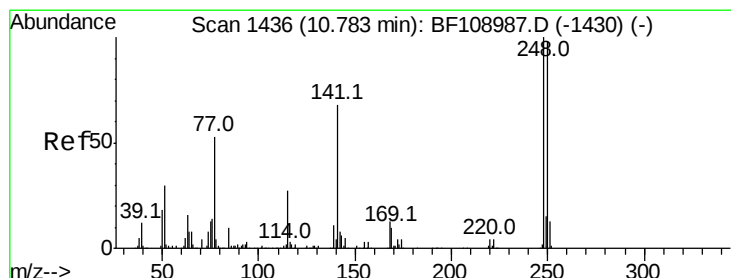
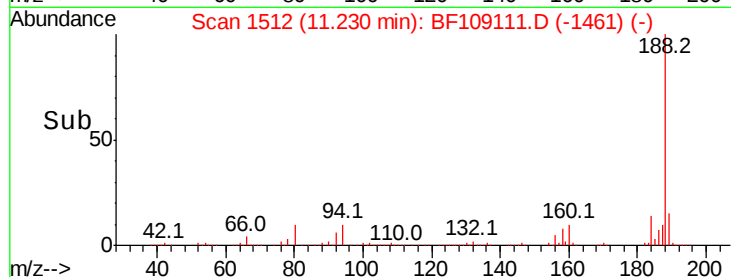
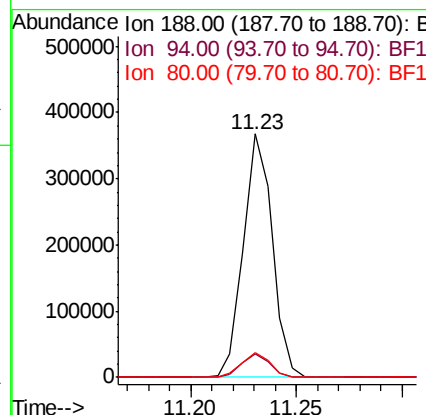
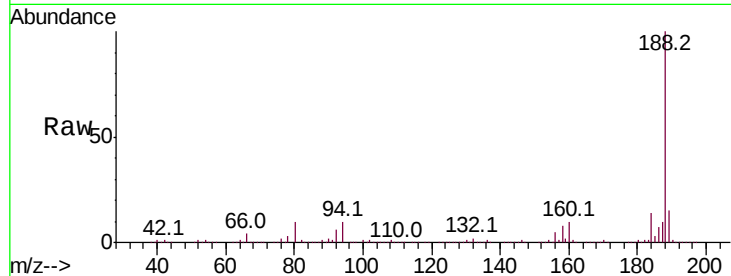




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.23 min Scan# 1512  
 Delta R.T. -0.00 min  
 Lab File: BF109111.D  
 Acq: 18 Sep 2018 22:17

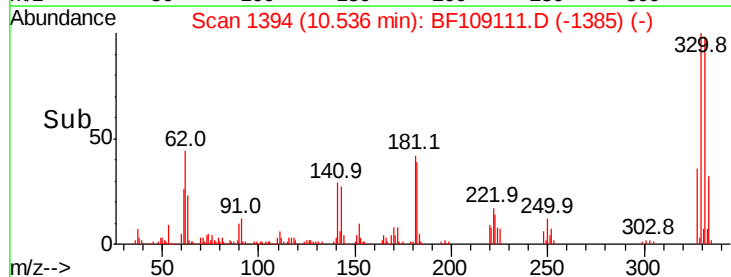
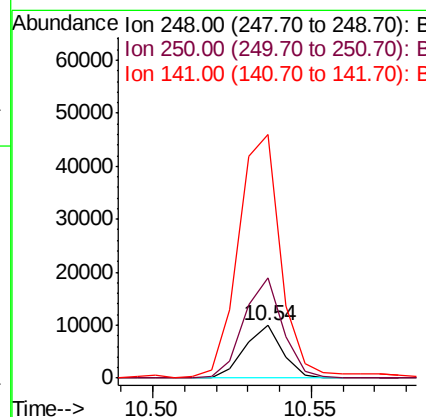
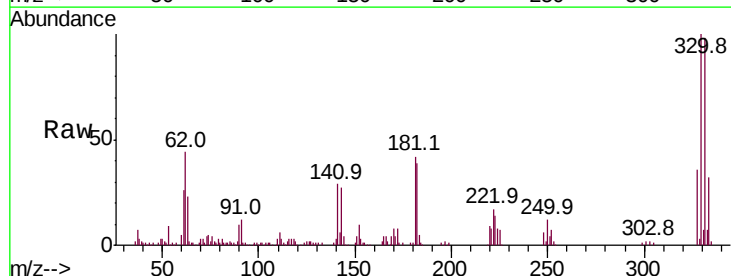
Instrument :  
 BNA\_F  
 ClientSampled :

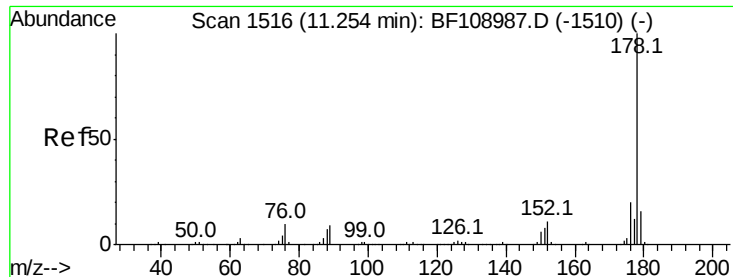
Tot Ion:188 Resp: 348346  
 Ion Ratio Lower Upper  
 188 100  
 94 9.8 8.5 12.7  
 80 10.1 9.2 13.8



#66  
 4-Bromophenyl-phenylether  
 Concen: 2.075 ng  
 RT: 10.54 min Scan# 1394  
 Delta R.T. -0.25 min  
 Lab File: BF109111.D  
 Acq: 18 Sep 2018 22:17

Tgt Ion:248 Resp: 8150  
 Ion Ratio Lower Upper  
 248 100  
 250 191.1 76.9 115.3#  
 141 463.7 74.4 111.6#

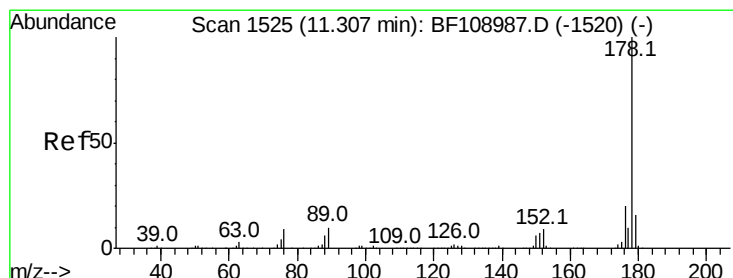
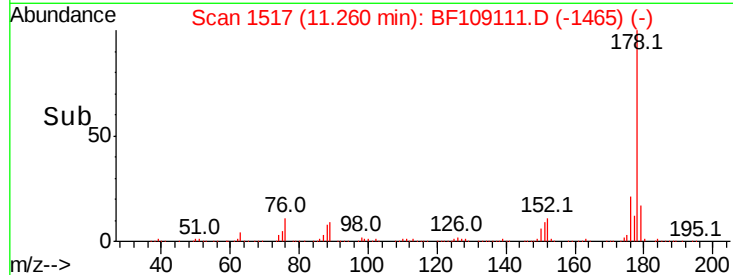
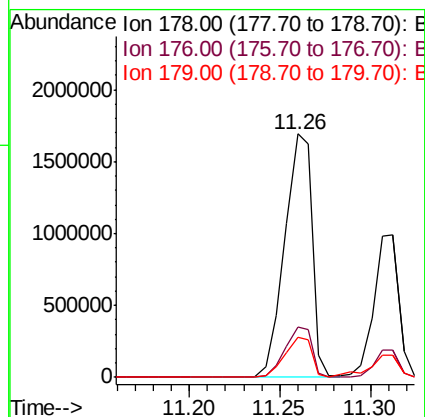
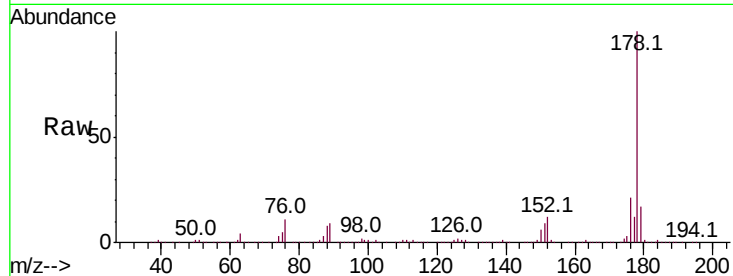




#70  
 Phenanthrene  
 Concen: 104.846 ng  
 RT: 11.26 min Scan# 1517  
 Delta R.T. 0.01 min  
 Lab File: BF109111.D  
 Acq: 18 Sep 2018 22:17

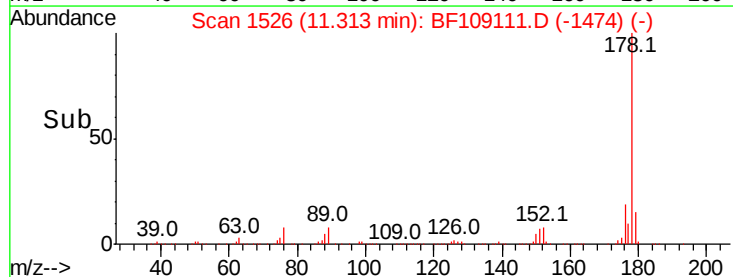
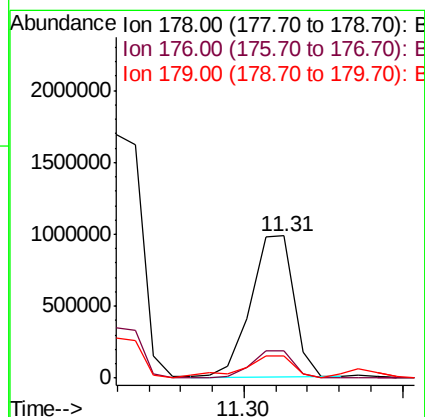
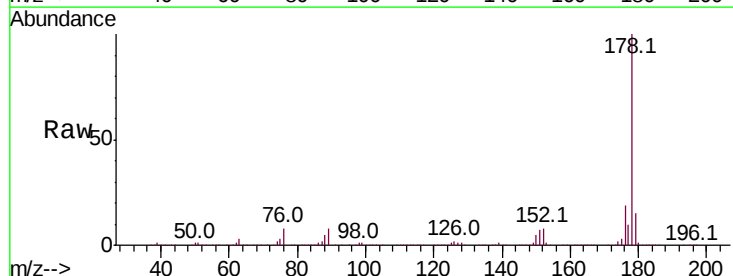
Instrument :  
 BNA\_F  
 ClientSampleId :

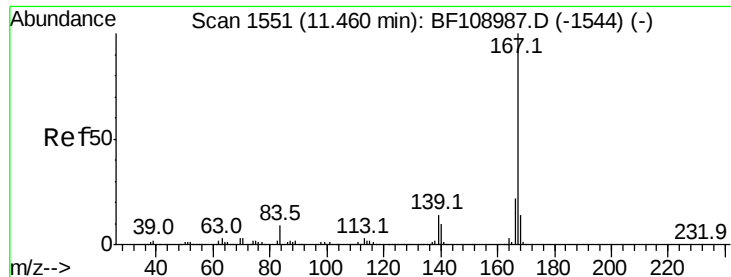
Tot Ion:178 Resp: 1790345  
 Ion Ratio Lower Upper  
 178 100  
 176 20.9 15.8 23.8  
 179 16.7 13.0 19.6



#71  
 Anthracene  
 Concen: 53.196 ng  
 RT: 11.31 min Scan# 1526  
 Delta R.T. 0.01 min  
 Lab File: BF109111.D  
 Acq: 18 Sep 2018 22:17

Tgt Ion:178 Resp: 920813  
 Ion Ratio Lower Upper  
 178 100  
 176 19.3 15.4 23.2  
 179 15.3 12.6 19.0

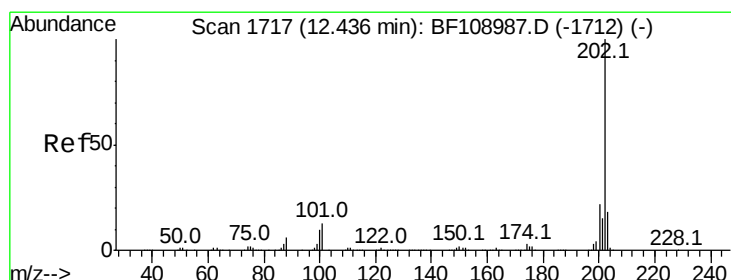
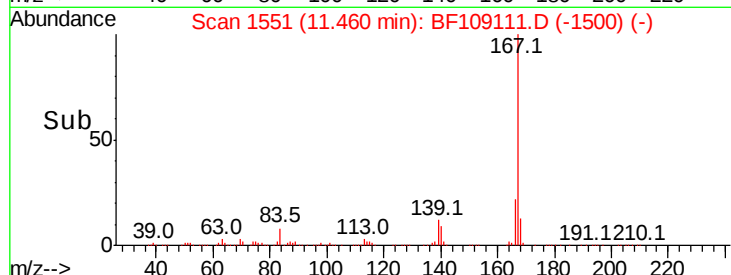
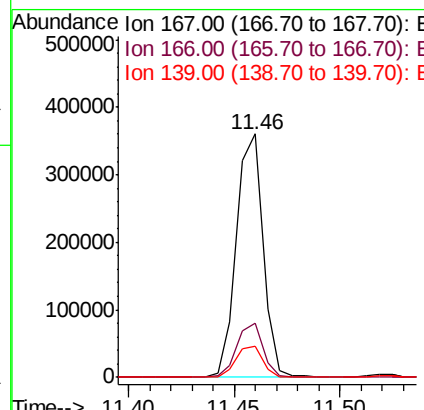
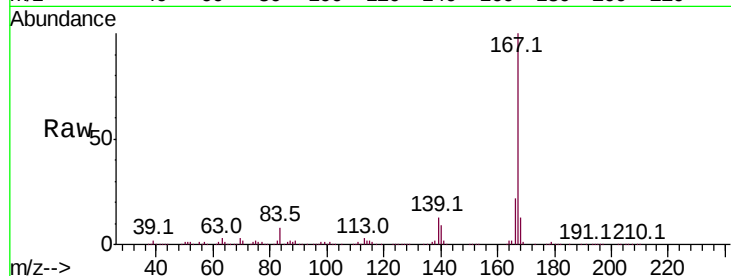




#72  
 Carbazole  
 Concen: 18.337 ng  
 RT: 11.46 min Scan# 1551  
 Delta R.T. -0.00 min  
 Lab File: BF109111.D  
 Acq: 18 Sep 2018 22:17

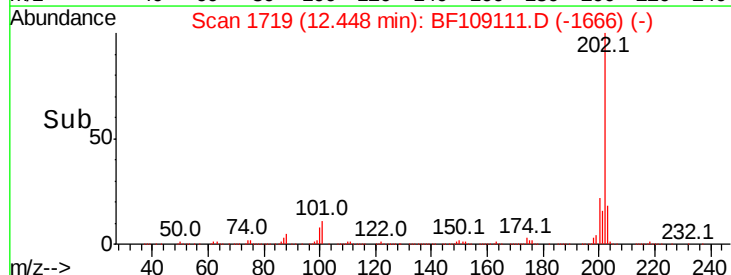
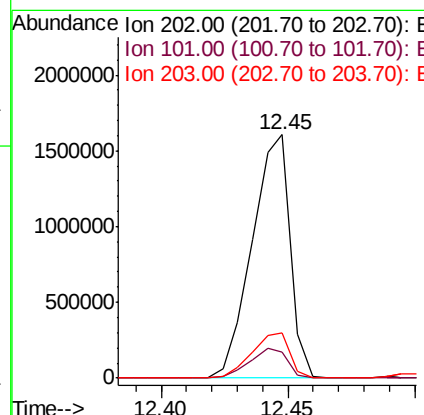
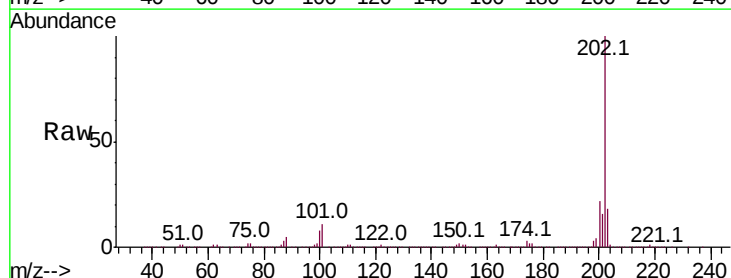
Instrument :  
 BNA\_F  
 ClientSampled :

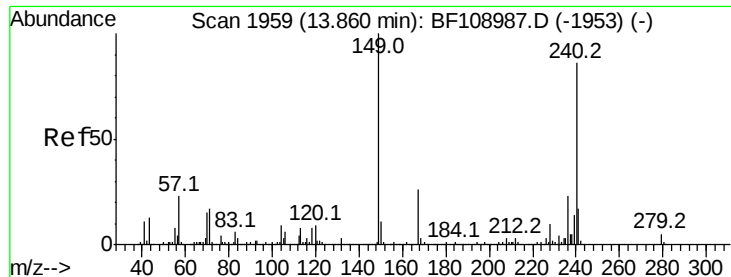
Tot Ion:167 Resp: 314204  
 Ion Ratio Lower Upper  
 167 100  
 166 22.2 17.6 26.4  
 139 12.6 10.9 16.3



#74  
 Fluoranthene  
 Concen: 92.841 ng  
 RT: 12.45 min Scan# 1719  
 Delta R.T. 0.01 min  
 Lab File: BF109111.D  
 Acq: 18 Sep 2018 22:17

Tgt Ion:202 Resp: 1673662  
 Ion Ratio Lower Upper  
 202 100  
 101 10.9 0.0 34.1  
 203 18.4 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 1960

Delta R.T. 0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

Instrument :

BNA\_F

ClientSampleId :

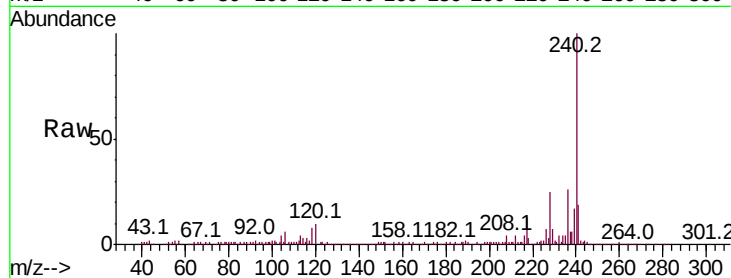
Tot Ion:240 Resp: 359147

Ion Ratio Lower Upper

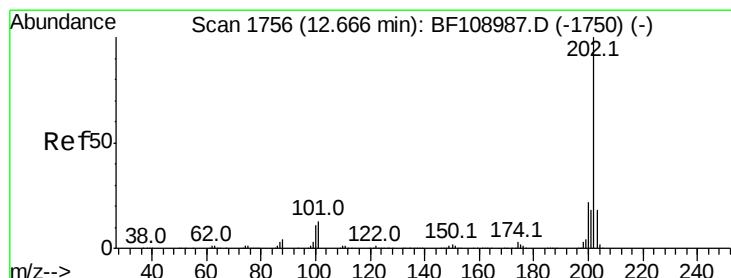
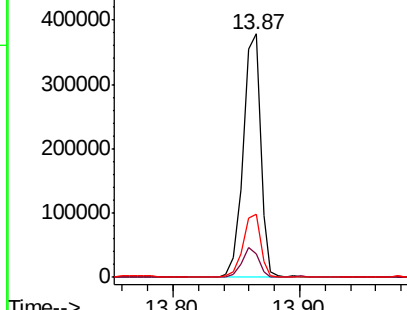
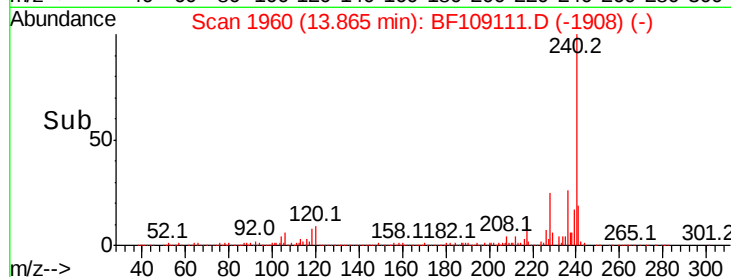
240 100

120 9.6 9.5 14.3

236 25.7 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: 56.521 ng

RT: 12.67 min Scan# 1757

Delta R.T. 0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

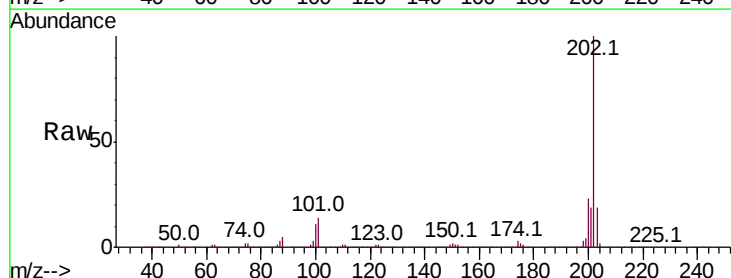
Tgt Ion:202 Resp: 1507799

Ion Ratio Lower Upper

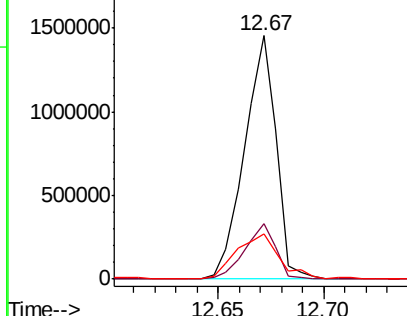
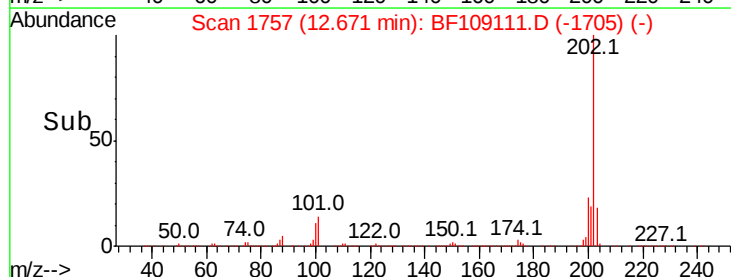
202 100

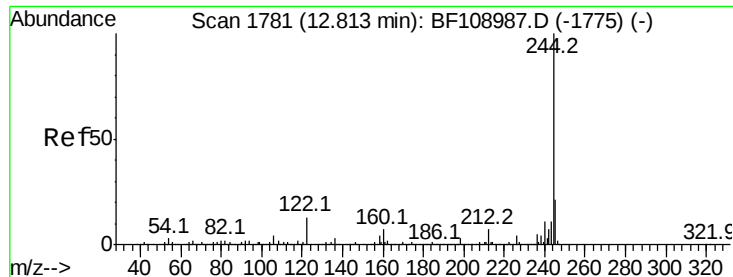
200 22.5 17.4 26.2

203 18.6 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

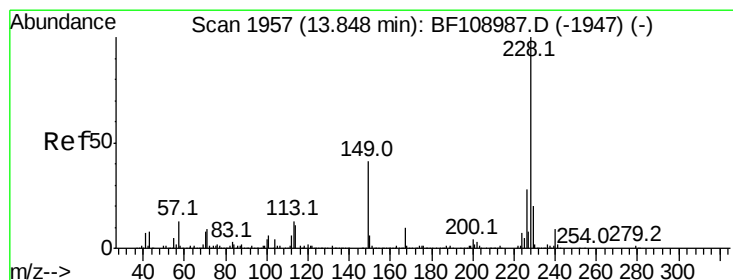
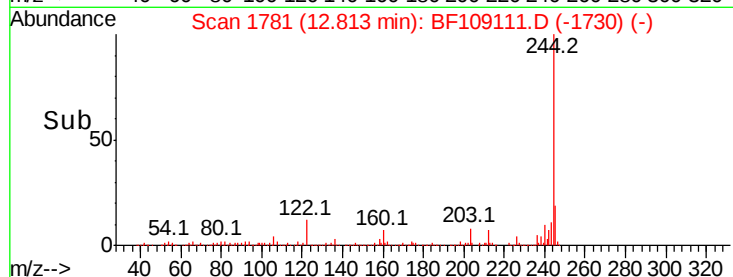
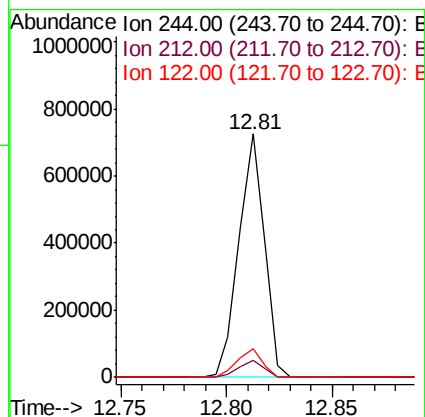
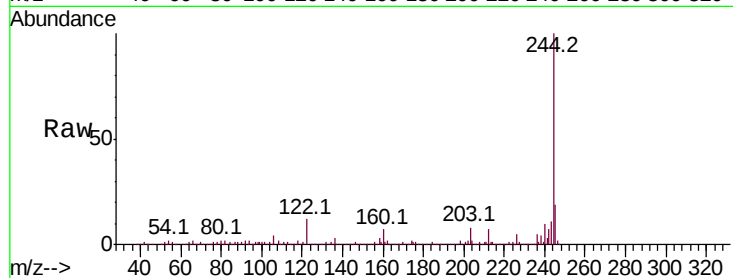




#78  
 Terphenyl-d14  
 Concen: 40.002 ng  
 RT: 12.81 min Scan# 1781  
 Delta R.T. -0.00 min  
 Lab File: BF109111.D  
 Acq: 18 Sep 2018 22:17

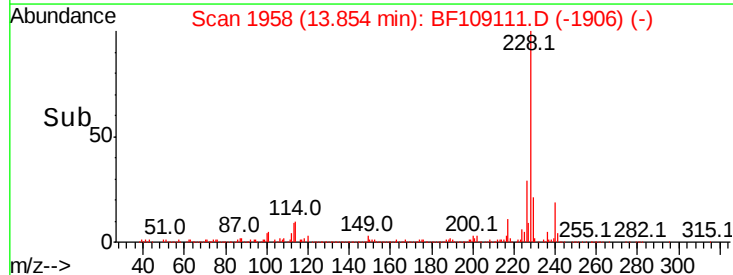
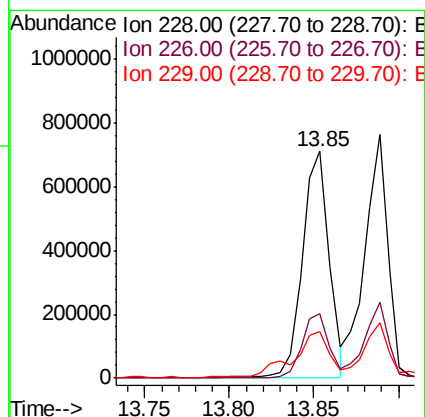
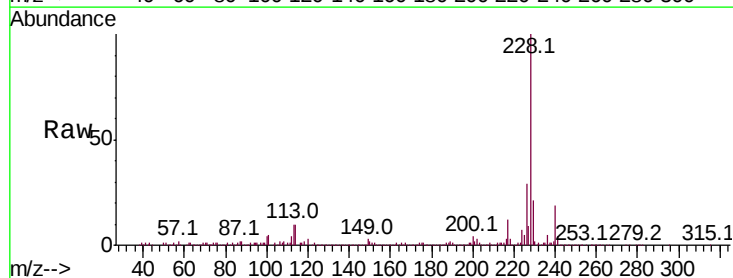
Instrument :  
 BNA\_F  
 ClientSampleId :

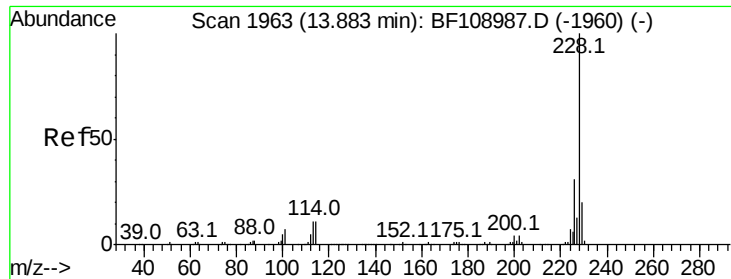
Tot Ion:244 Resp: 606120  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.4 8.0  
 122 11.7 11.0 16.4



#80  
 Benzo(a)anthracene  
 Concen: 35.720 ng  
 RT: 13.85 min Scan# 1958  
 Delta R.T. 0.01 min  
 Lab File: BF109111.D  
 Acq: 18 Sep 2018 22:17

Tgt Ion:228 Resp: 776684  
 Ion Ratio Lower Upper  
 228 100  
 226 28.7 22.6 33.8  
 229 20.8 15.8 23.6





#82

Chrysene

Concen: 33.141 ng

RT: 13.89 min Scan# 1964

Delta R.T. 0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

Instrument :

BNA\_F

ClientSampled :

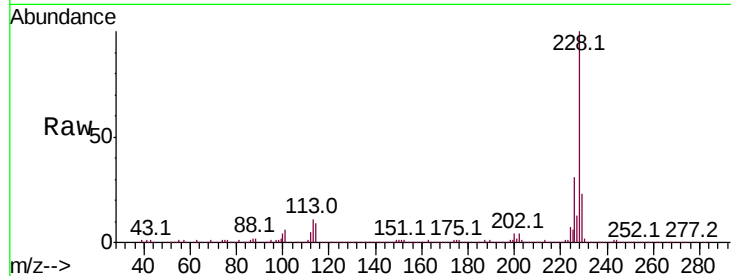
Tot Ion:228 Resp: 720969

Ion Ratio Lower Upper

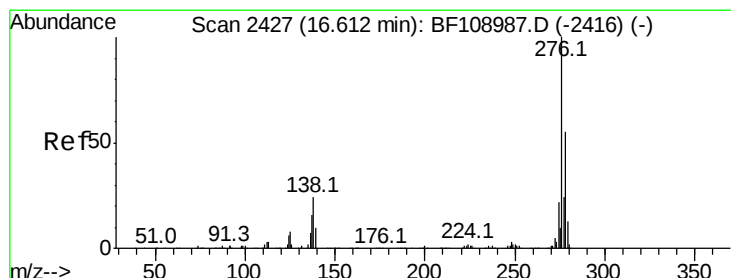
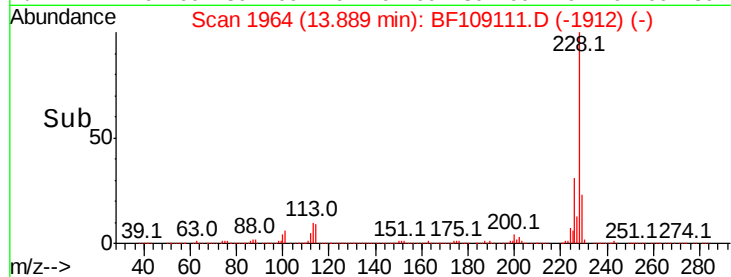
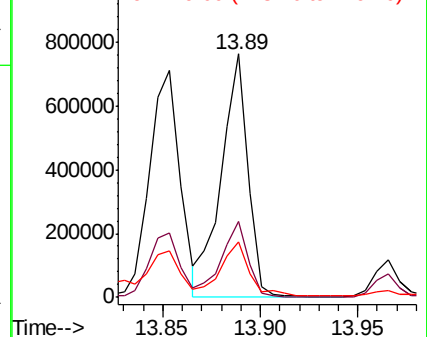
228 100

226 31.0 25.0 37.6

229 22.8 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 12.897 ng

RT: 16.62 min Scan# 2428

Delta R.T. 0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

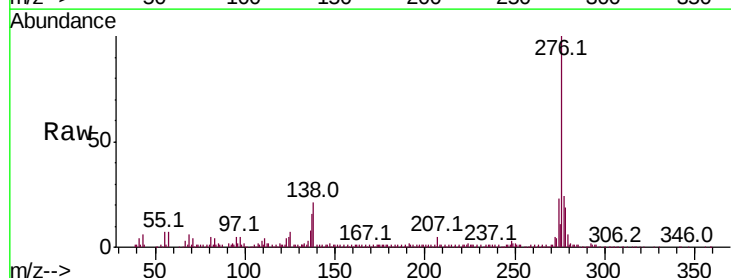
Tgt Ion:276 Resp: 224317

Ion Ratio Lower Upper

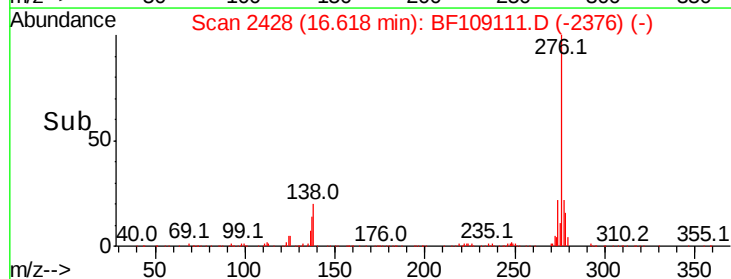
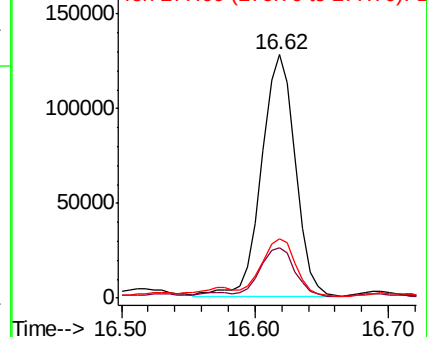
276 100

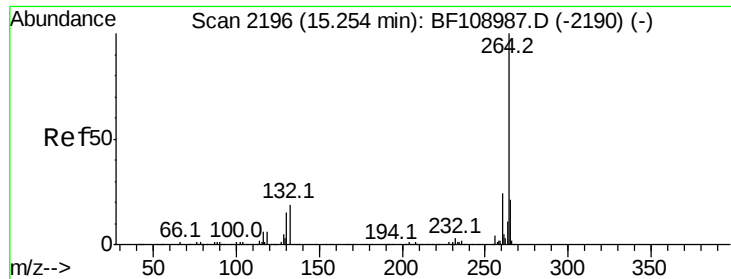
138 20.5 25.0 37.6#

277 24.5 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.27 min Scan# 2198

Delta R.T. 0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

Instrument :

BNA\_F

ClientSampleId :

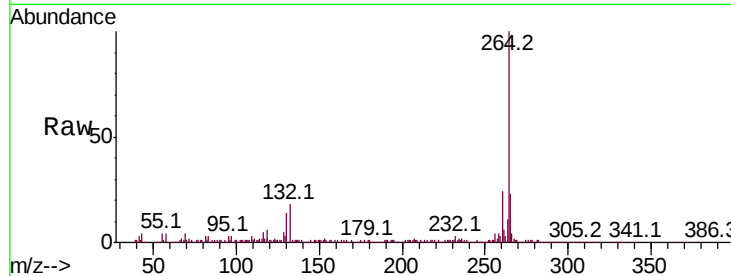
Tot Ion:264 Resp: 326773

Ion Ratio Lower Upper

264 100

260 24.3 19.2 28.8

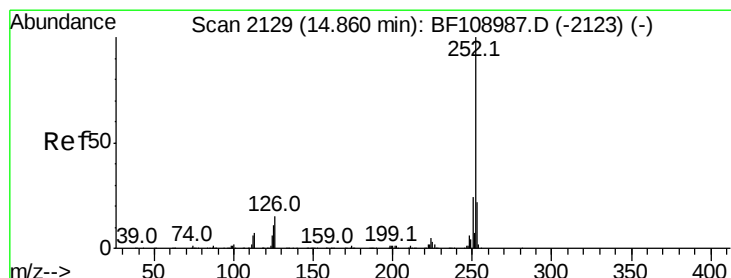
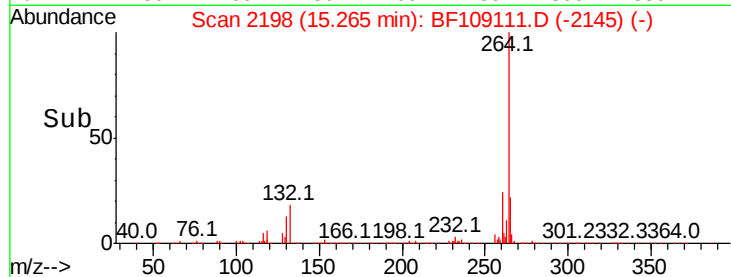
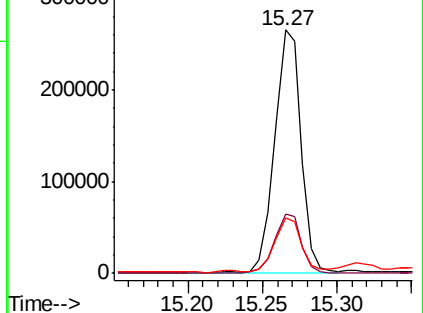
265 22.6 17.5 26.3



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: 50.673 ng

RT: 14.87 min Scan# 2131

Delta R.T. 0.01 min

Lab File: BF109111.D

Acq: 18 Sep 2018 22:17

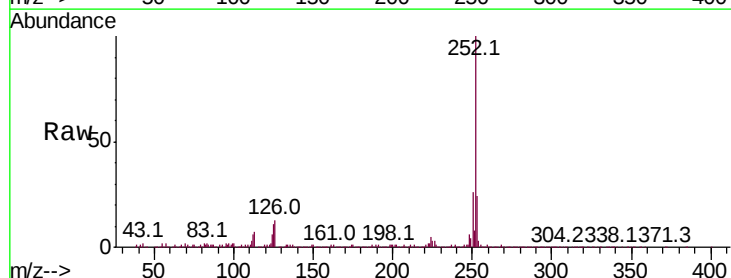
Tgt Ion:252 Resp: 916059

Ion Ratio Lower Upper

252 100

253 23.8 17.0 25.6

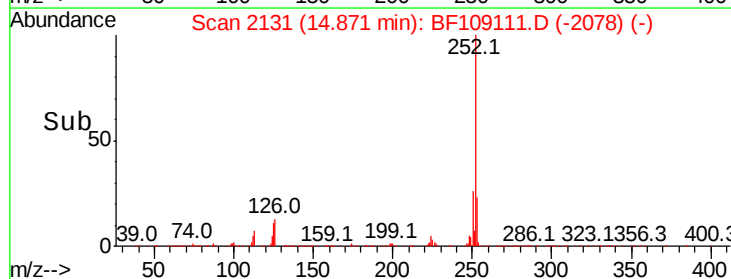
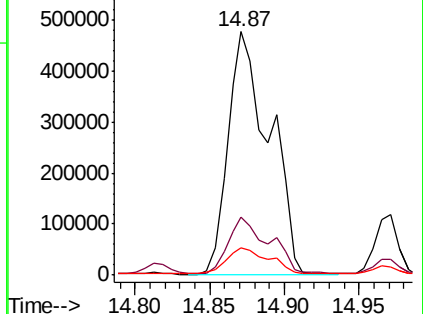
125 11.5 9.0 13.6

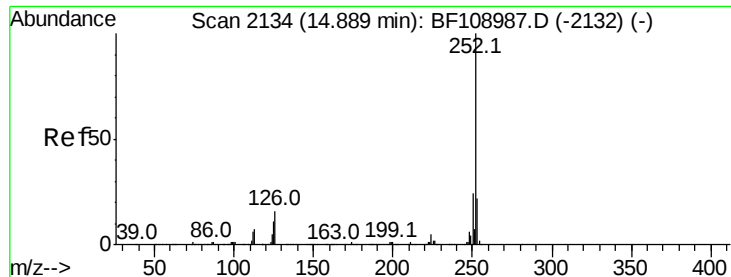


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

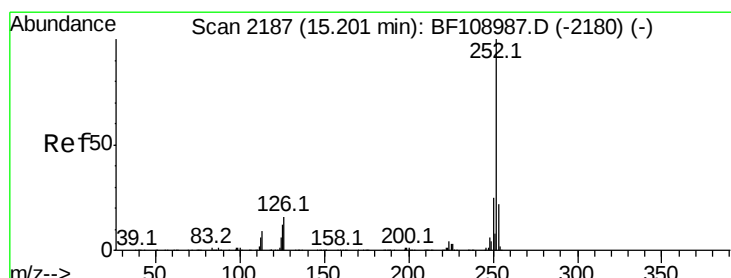
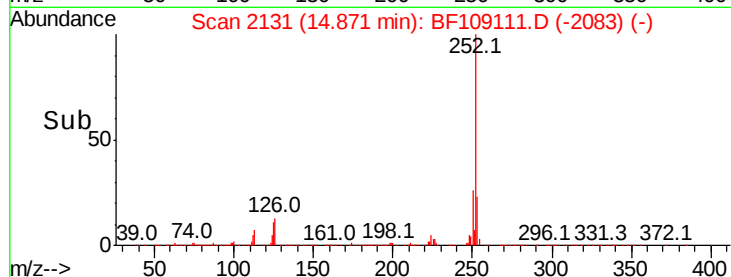
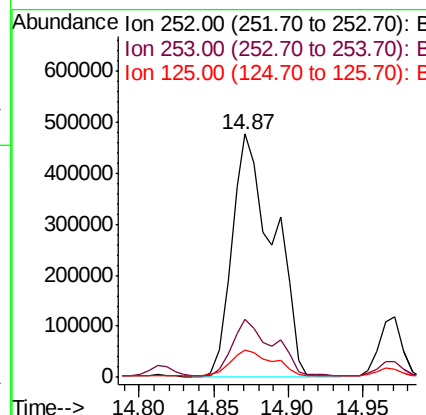
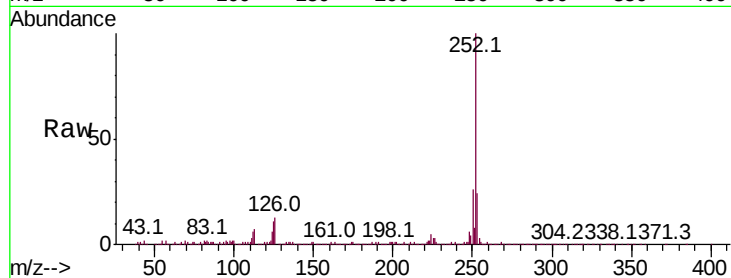




#88  
Benzo(k)fluoranthene  
Concen: 54.253 ng  
RT: 14.87 min Scan# 2131  
Delta R.T. -0.02 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

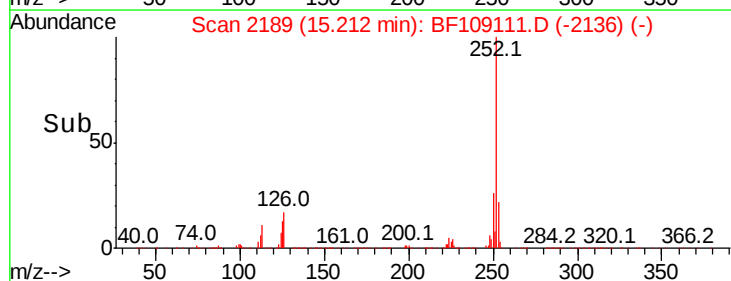
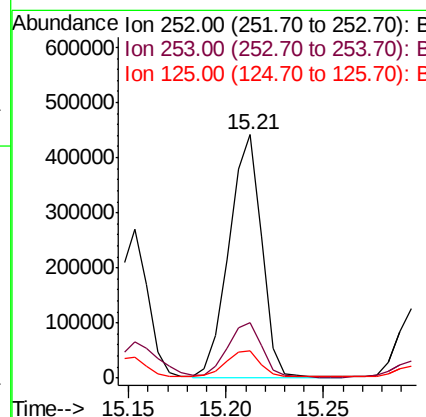
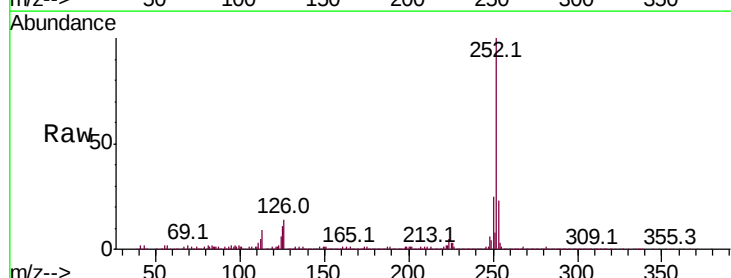
Instrument :  
BNA\_F  
ClientSampleId :

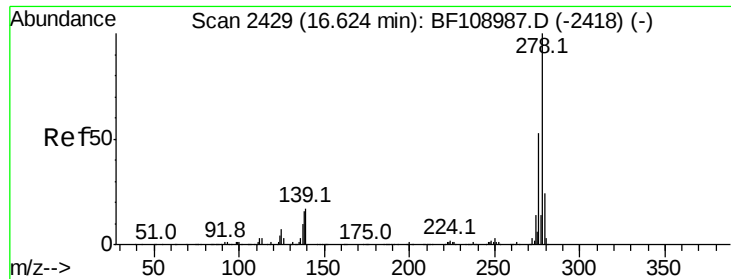
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.9  | 26.9  |
| 125     | 11.5  | 10.2  | 15.2  |



#89  
Benzo(a)pyrene  
Concen: 31.704 ng  
RT: 15.21 min Scan# 2189  
Delta R.T. 0.01 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.1  | 25.7  |
| 125     | 11.2  | 9.8   | 14.6  |

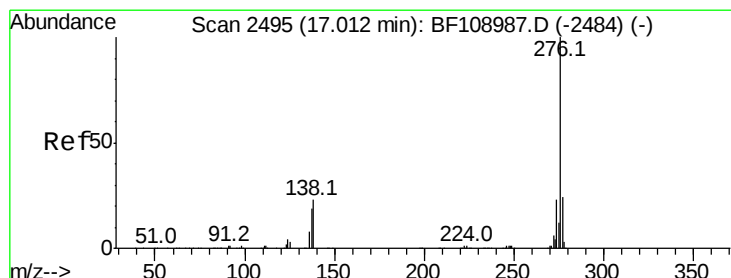
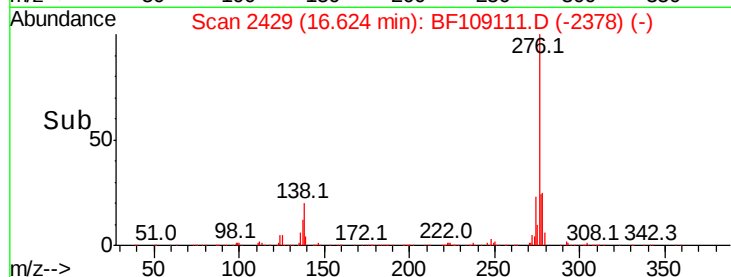
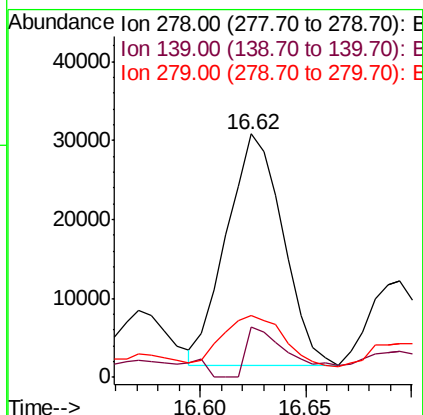
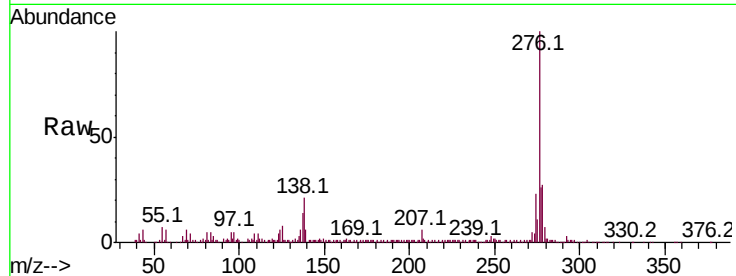




#90  
Dibenzo(a,h)anthracene  
Concen: 4.032 ng  
RT: 16.62 min Scan# 2429  
Delta R.T. -0.00 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.7  | 15.9  | 23.9  |
| 279     | 25.6  | 19.0  | 28.4  |



#91  
Benzo(g,h,i)perylene  
Concen: 14.542 ng  
RT: 17.02 min Scan# 2497  
Delta R.T. 0.01 min  
Lab File: BF109111.D  
Acq: 18 Sep 2018 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.8  | 17.9  | 26.9  |
| 138     | 22.1  | 21.8  | 32.8  |

