

Data Path : U:\HPCHEM1\BNA F\DATA\BF012618\  
 Data File : BF102467.D  
 Acq On : 26 Jan 2018 14:39  
 Operator : SJ/JU  
 Sample : J1257-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 26 16:21:07 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 26 16:18:07 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 137552   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.00  | 136  | 538979   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.75  | 164  | 207668   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.25 | 188  | 259472   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.92 | 240  | 141161   | 20.00 | ng    | 0.04     |
| 86) Perylene-d12          | 15.38 | 264  | 165035   | 20.00 | ng    | 0.08     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.33  | 112 | 872553  | 96.18 | ng | 0.00 |
| 7) Phenol-d6             | 6.36  | 99  | 1012893 | 92.61 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.29  | 82  | 627374  | 66.89 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.55 | 330 | 146607  | 71.25 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.07  | 172 | 981698  | 69.51 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.84 | 244 | 494132  | 78.91 | ng | 0.02 |

## Target Compounds

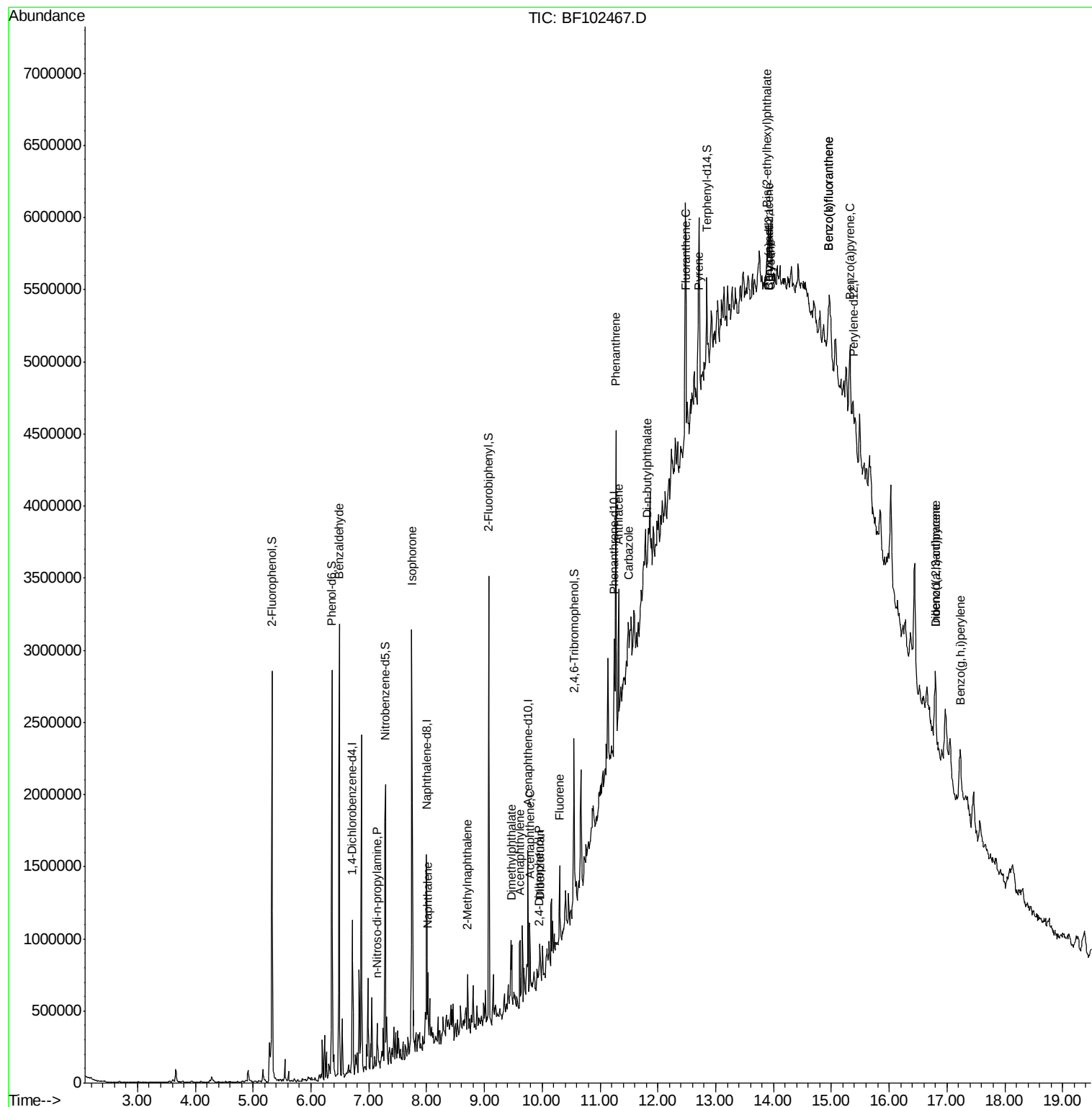
|                                |       |     |         |         |    | Qvalue |
|--------------------------------|-------|-----|---------|---------|----|--------|
| 9) Benzaldehyde                | 6.49  | 77  | 18966   | 2.514   | ng | 83     |
| 19) n-Nitroso-di-n-propylamine | 7.15  | 70  | 18423   | 2.753   | ng | # 52   |
| 25) Isophorone                 | 7.75  | 82  | 44269   | 2.648   | ng | # 1    |
| 31) Naphthalene                | 8.02  | 128 | 192013  | 7.135   | ng | 99     |
| 37) 2-Methylnaphthalene        | 8.71  | 142 | 108439  | 6.051   | ng | 99     |
| 48) Acenaphthylene             | 9.62  | 152 | 103414  | 4.599   | ng | 95     |
| 49) Dimethylphthalate          | 9.47  | 163 | 87202   | 5.080   | ng | 97     |
| 51) Acenaphthene               | 9.79  | 154 | 71703   | 5.460   | ng | 98     |
| 53) 2,4-Dinitrophenol          | 9.93  | 184 | 112     | 3.760   | ng | # 1    |
| 54) Dibenzofuran               | 9.96  | 168 | 91500   | 5.148   | ng | 96     |
| 57) Fluorene                   | 10.30 | 166 | 136550  | 9.696   | ng | 99     |
| 70) Phenanthrene               | 11.27 | 178 | 1005404 | 66.495  | ng | 100    |
| 71) Anthracene                 | 11.32 | 178 | 397399  | 25.750  | ng | 98     |
| 72) Carbazole                  | 11.48 | 167 | 72790   | 4.835   | ng | # 78   |
| 73) Di-n-butylphthalate        | 11.81 | 149 | 70694   | 3.756   | ng | # 79   |
| 74) Fluoranthene               | 12.48 | 202 | 1375875 | 89.234  | ng | 97     |
| 77) Pyrene                     | 12.71 | 202 | 1209941 | 110.861 | ng | 99     |
| 80) Benzo(a)anthracene         | 13.91 | 228 | 630667  | 72.567  | ng | 96     |
| 82) Chrysene                   | 13.95 | 228 | 516861  | 58.565  | ng | 97     |
| 83) Bis(2-ethylhexyl)phthalate | 13.89 | 149 | 166385  | 22.795  | ng | # 92   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.80 | 276 | 381298  | 52.314  | ng | 95     |
| 87) Benzo(b)fluoranthene       | 14.97 | 252 | 938806  | 87.766  | ng | # 82   |
| 88) Benzo(k)fluoranthene       | 14.97 | 252 | 938806  | 92.895  | ng | # 85   |
| 89) Benzo(a)pyrene             | 15.33 | 252 | 540854  | 56.063  | ng | # 84   |
| 90) Dibenzo(a,h)anthracene     | 16.80 | 278 | 99207   | 12.695  | ng | # 63   |
| 91) Benzo(g,h,i)perylene       | 17.23 | 276 | 372053  | 48.217  | ng | 92     |

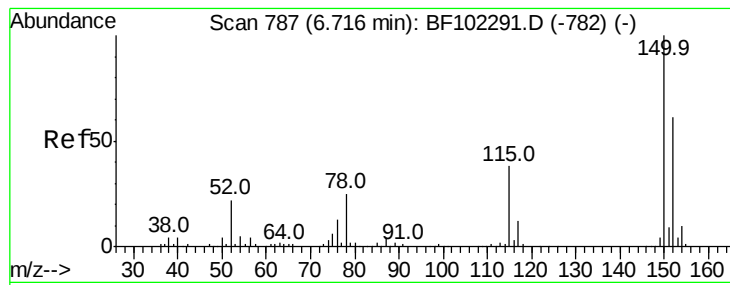
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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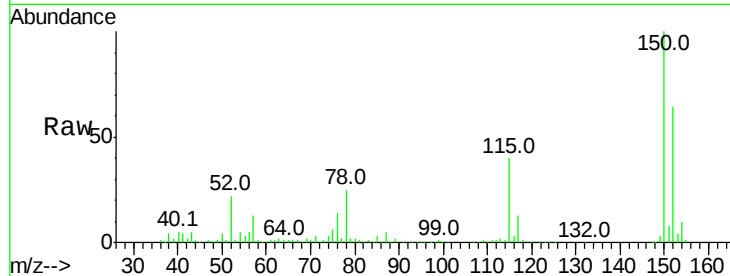


#1

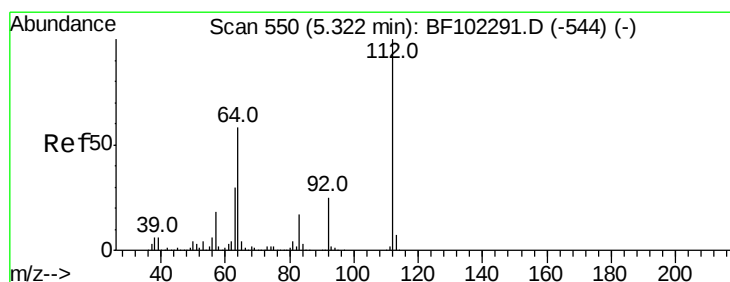
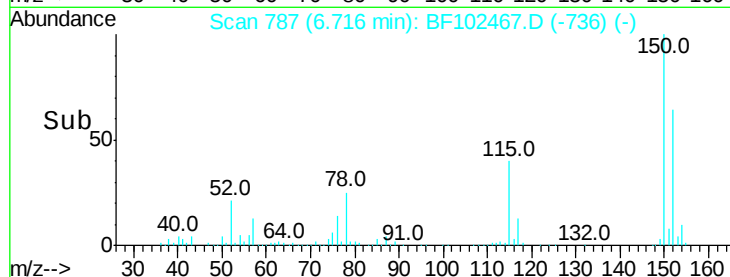
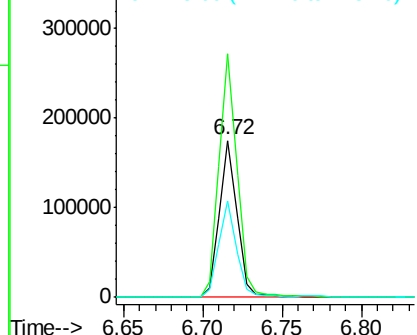
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 787  
Delta R.T. -0.00 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 137552  
Ion Ratio Lower Upper  
152 100  
150 155.1 124.6 186.8  
115 61.3 50.1 75.1



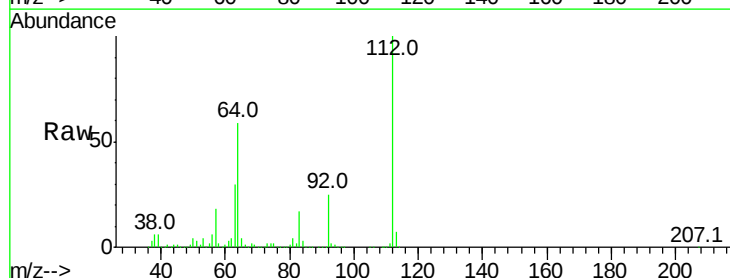
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



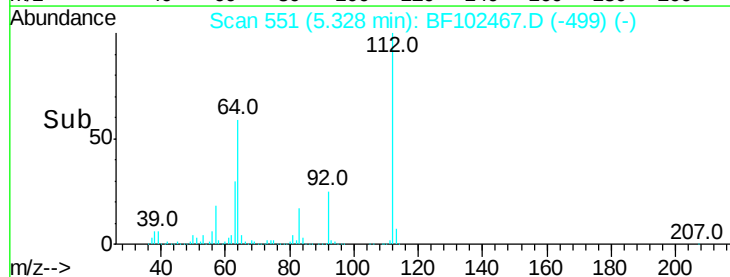
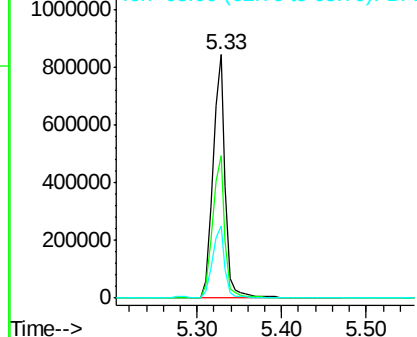
#5

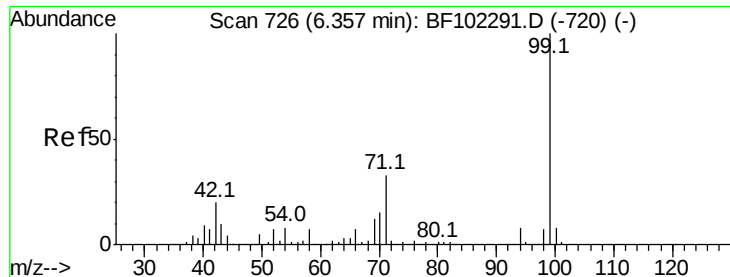
2-Fluorophenol  
Concen: 96.183 ng  
RT: 5.33 min Scan# 551  
Delta R.T. 0.01 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

Tgt Ion:112 Resp: 872553  
Ion Ratio Lower Upper  
112 100  
64 58.6 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): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 92.613 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.00 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Instrument :

BNA\_F

ClientSampleId :

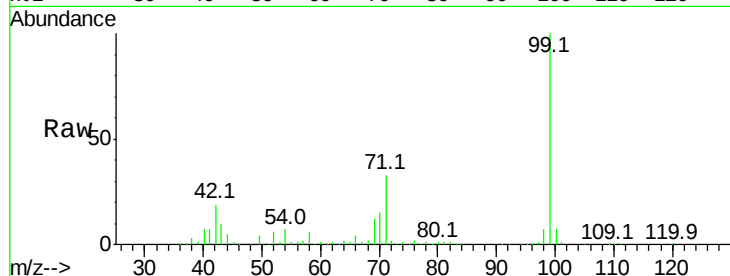
Tot Ion: 99 Resp: 1012893

Ion Ratio Lower Upper

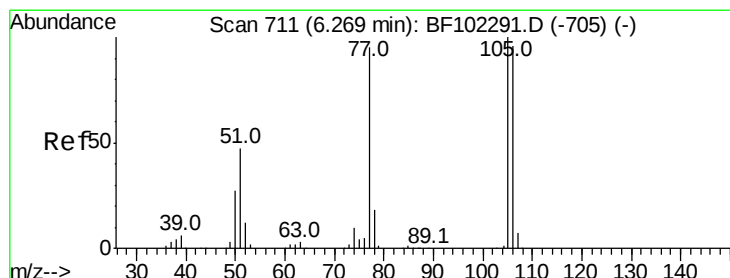
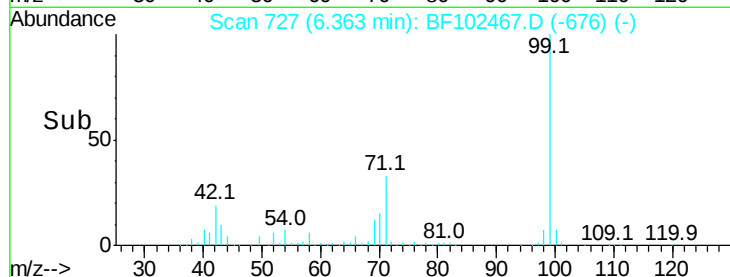
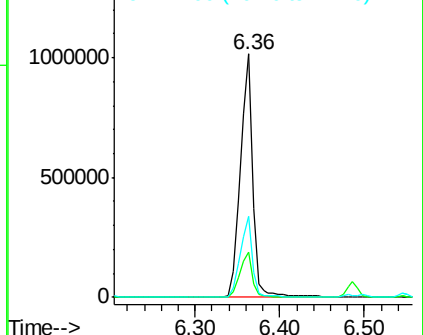
99 100

42 18.8 14.5 21.7

71 33.2 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



#9

Benzaldehyde

Concen: 2.514 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.22 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

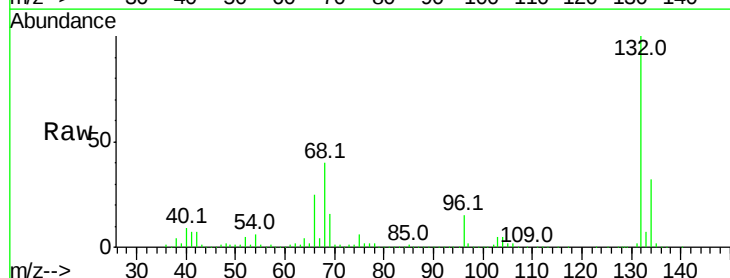
Tgt Ion: 77 Resp: 18966

Ion Ratio Lower Upper

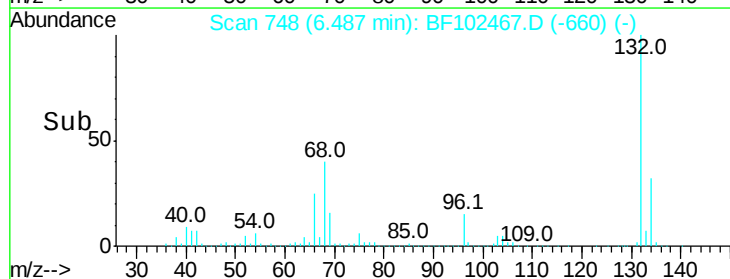
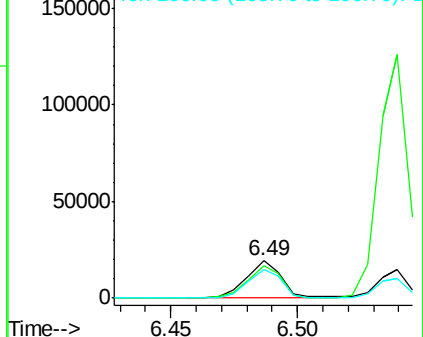
77 100

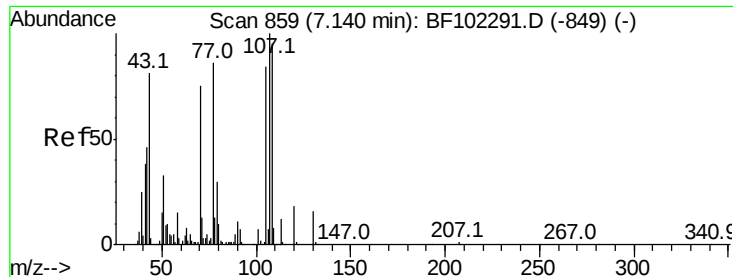
105 85.8 81.1 121.1

106 76.1 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 106.00 (105.70 to 106.70): BF1

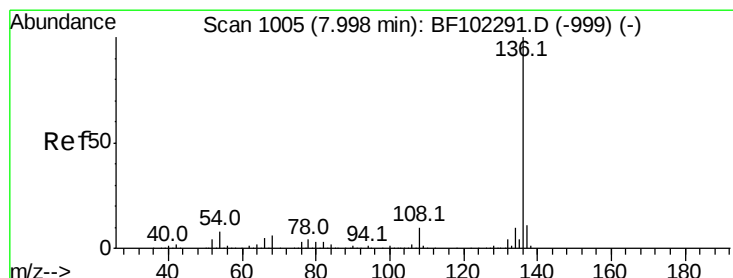
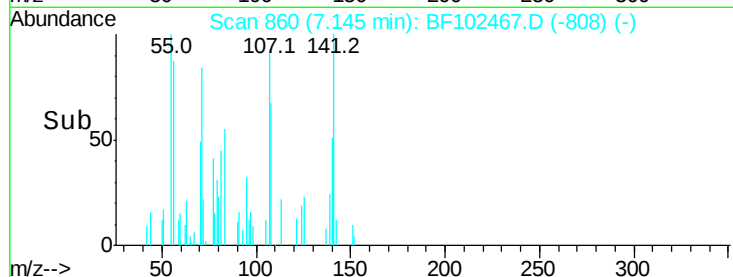
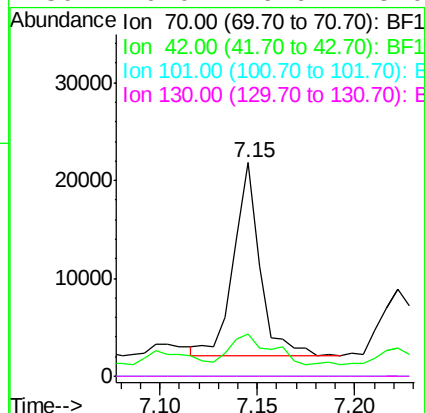
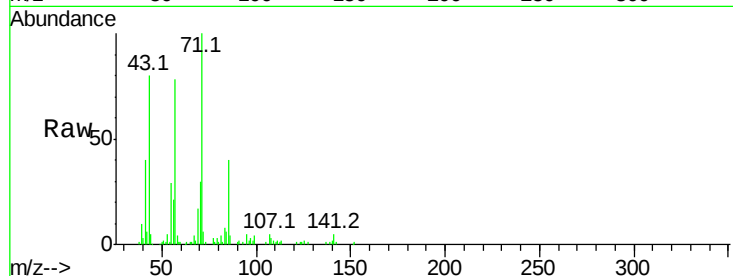




#19  
n-Nitroso-di-n-propylamine  
Concen: 2.753 ng  
RT: 7.15 min Scan# 860  
Delta R.T. 0.01 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

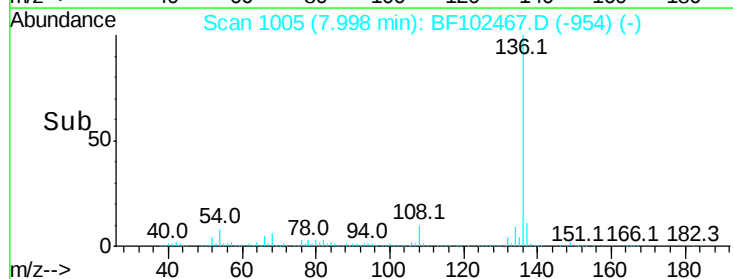
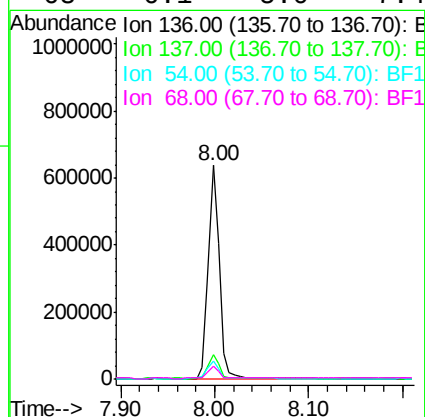
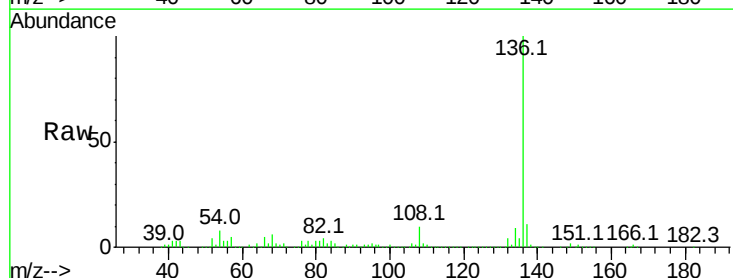
Instrument :  
BNA\_F  
ClientSampleId :

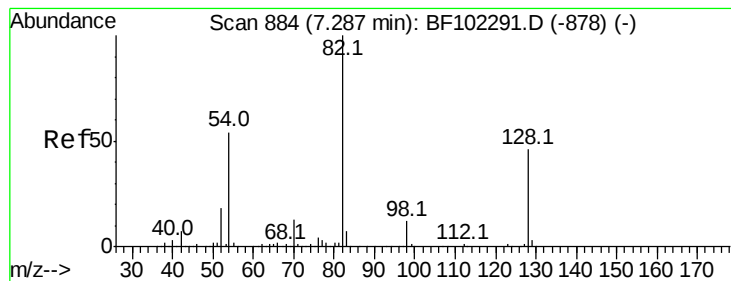
Tot Ion: 70 Resp: 18423  
Ion Ratio Lower Upper  
70 100  
42 19.9 47.5 71.3#  
101 0.0 7.4 11.2#  
130 0.0 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1005  
Delta R.T. -0.00 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

Tgt Ion: 136 Resp: 538979  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.9 13.3  
54 8.5 6.6 9.8  
68 6.1 5.0 7.4





#23

Nitrobenzene-d5

Concen: 66.892 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.00 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Instrument :

BNA\_F

ClientSampleId :

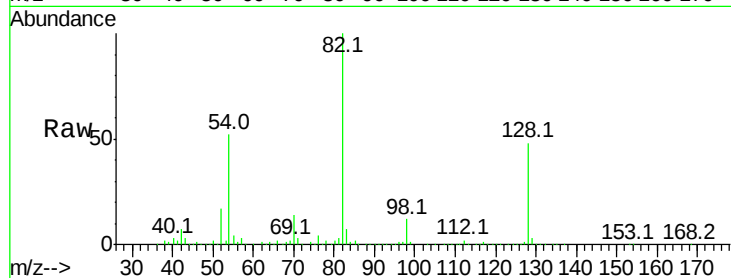
Tot Ion: 82 Resp: 627374

Ion Ratio Lower Upper

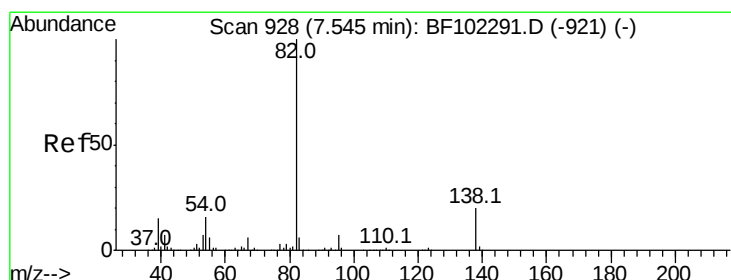
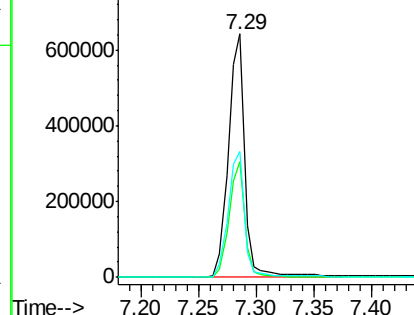
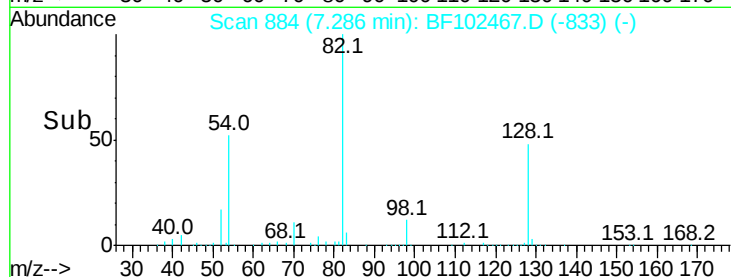
82 100

128 47.6 36.1 54.1

54 51.8 41.4 62.2



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



#25

Isophorone

Concen: 2.648 ng

RT: 7.75 min Scan# 962

Delta R.T. 0.20 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

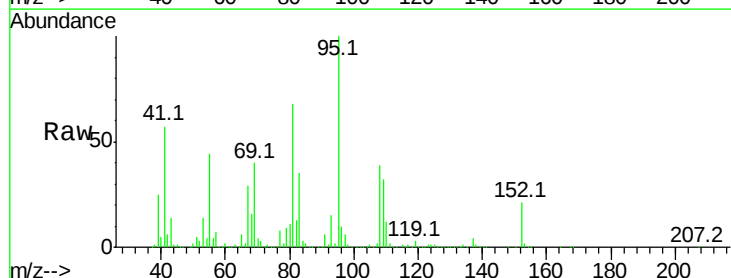
Tgt Ion: 82 Resp: 44269

Ion Ratio Lower Upper

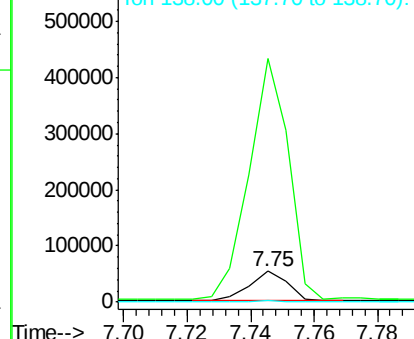
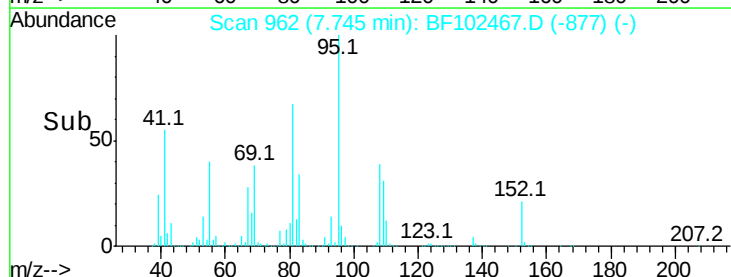
82 100

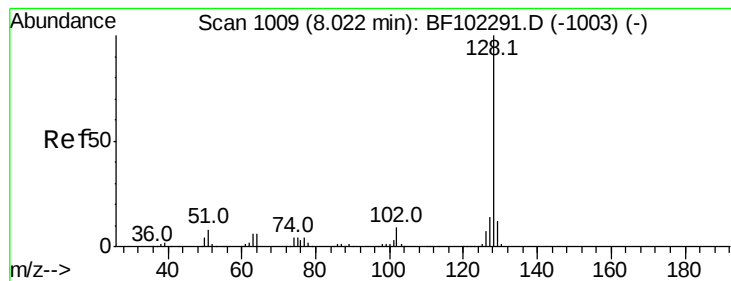
95 783.4 5.2 7.8#

138 4.0 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: 7.135 ng

RT: 8.02 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Instrument :

BNA\_F

ClientSampleId :

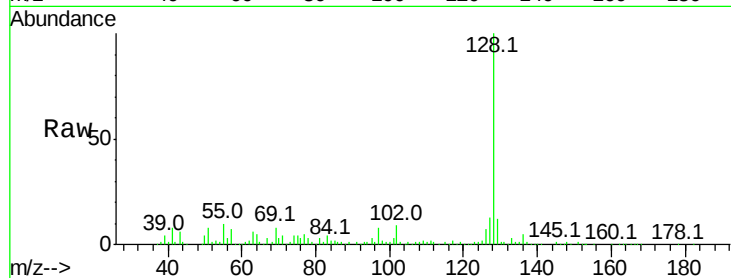
Tot Ion:128 Resp: 192013

Ion Ratio Lower Upper

128 100

129 11.6 8.8 13.2

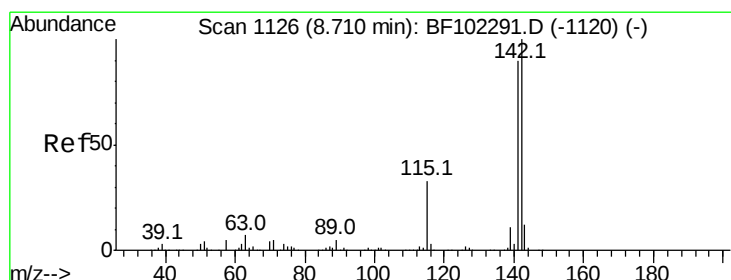
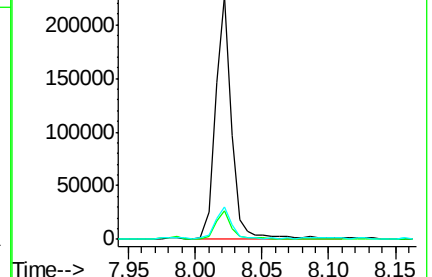
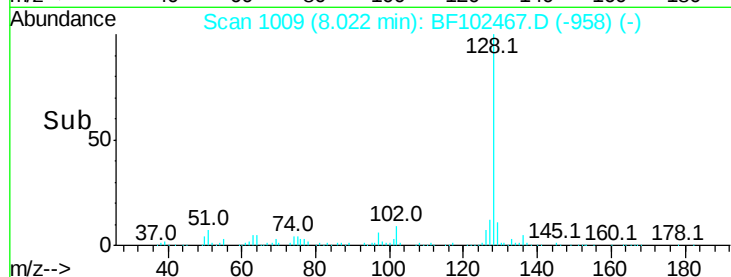
127 13.2 10.9 16.3



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



#37

2-Methylnaphthalene

Concen: 6.051 ng

RT: 8.71 min Scan# 1126

Delta R.T. -0.01 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

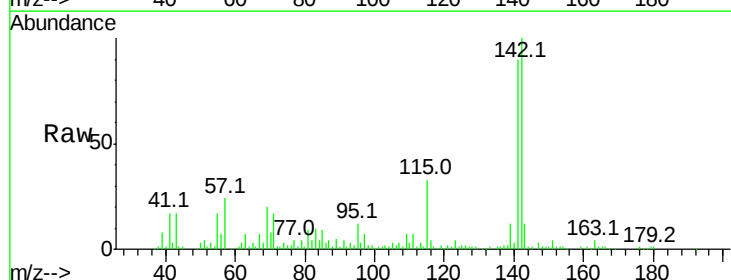
Tgt Ion:142 Resp: 108439

Ion Ratio Lower Upper

142 100

141 90.0 70.8 106.2

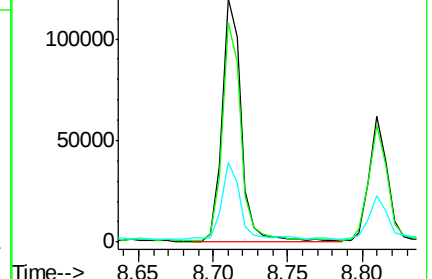
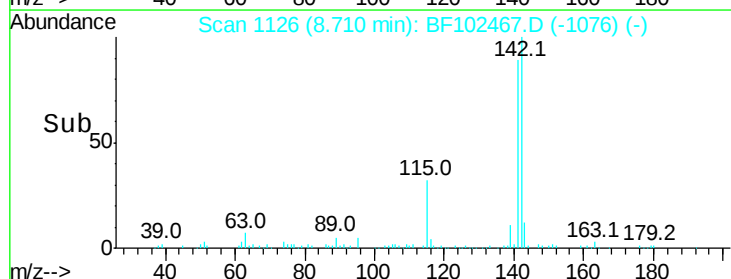
115 32.8 26.1 39.1

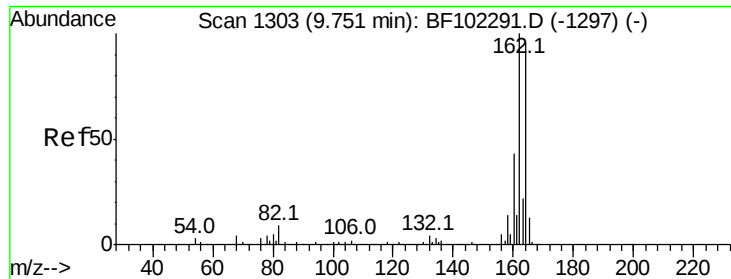


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

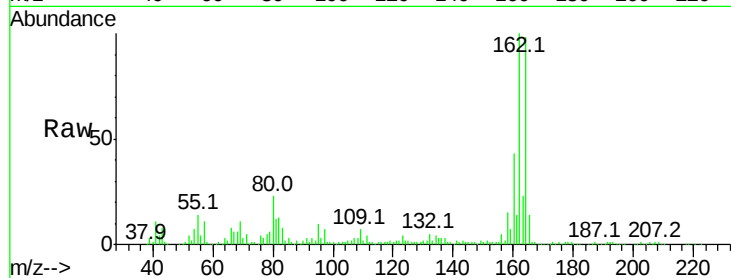




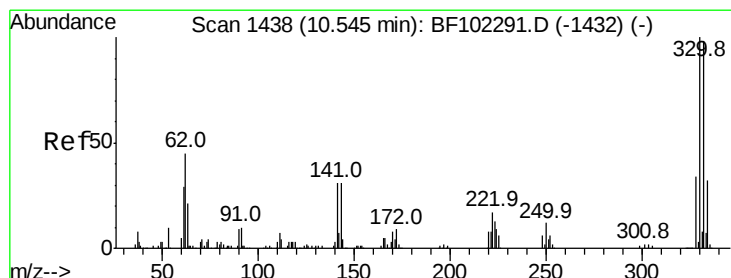
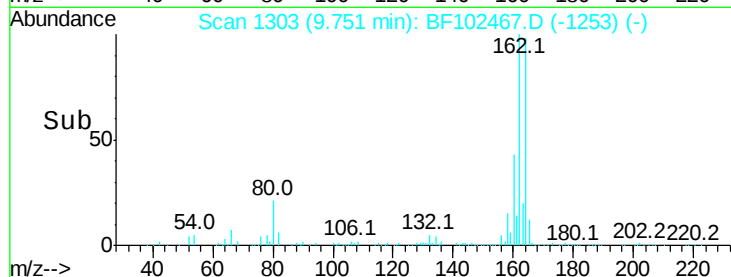
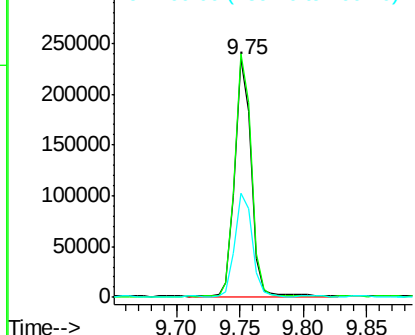
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.75 min Scan# 1303  
 Delta R.T. -0.01 min  
 Lab File: BF102467.D  
 Acq: 26 Jan 2018 14:39

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 207668  
 Ion Ratio Lower Upper  
 164 100  
 162 102.1 86.1 129.1  
 160 43.9 38.3 57.5

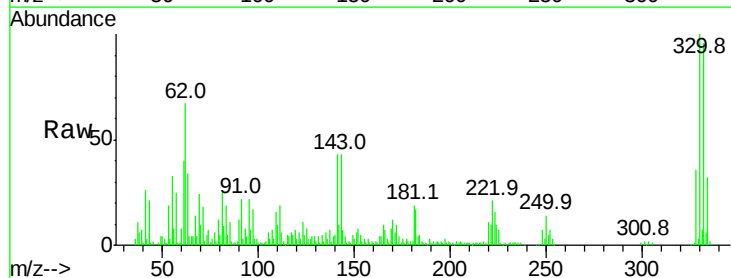


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

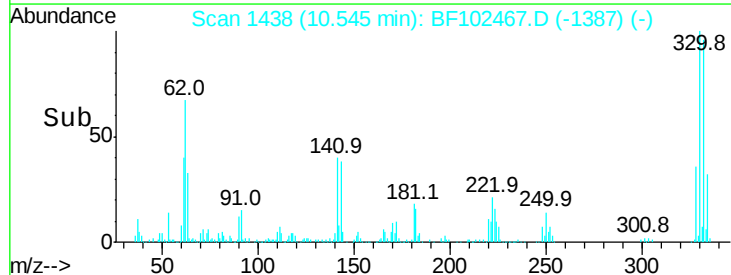
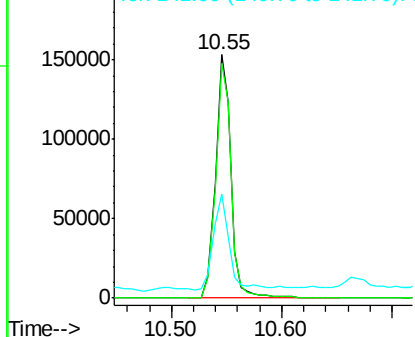


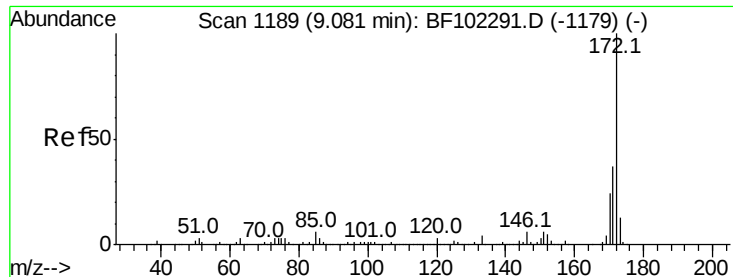
#41  
 2,4,6-Tribromophenol  
 Concen: 71.248 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.00 min  
 Lab File: BF102467.D  
 Acq: 26 Jan 2018 14:39

Tgt Ion:330 Resp: 146607  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 77.0 115.6  
 141 41.2 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

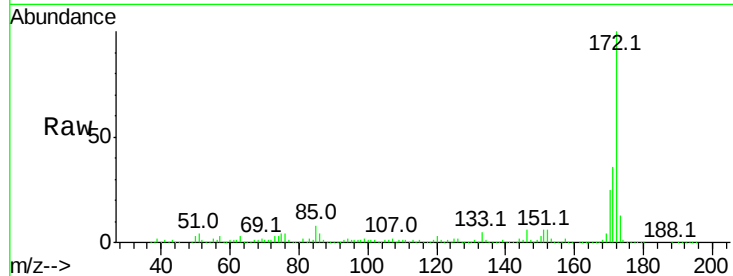




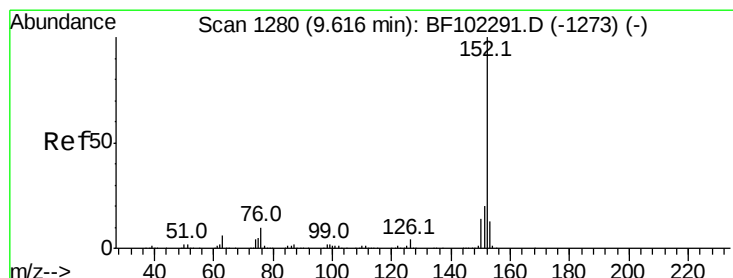
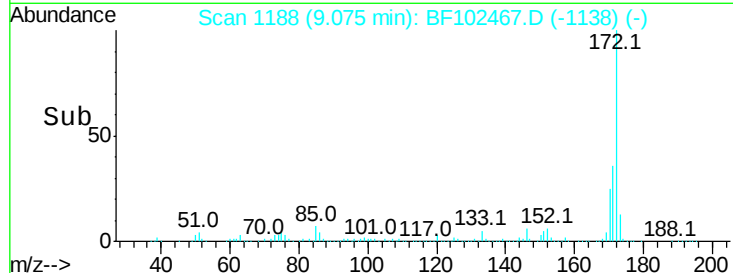
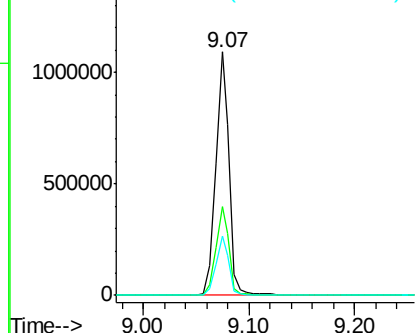
#44  
2-Fluorobiphenyl  
Concen: 69.507 ng  
RT: 9.07 min Scan# 1188  
Delta R.T. -0.01 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 981698  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.7 44.5  
170 24.6 19.6 29.4

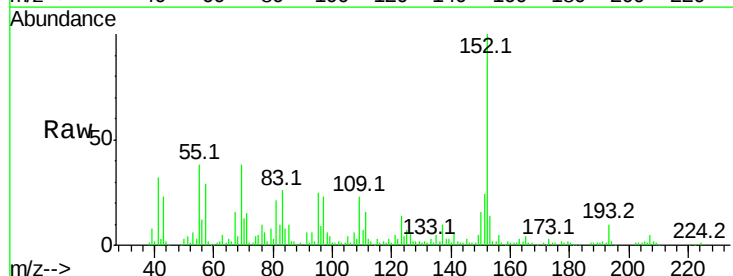


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

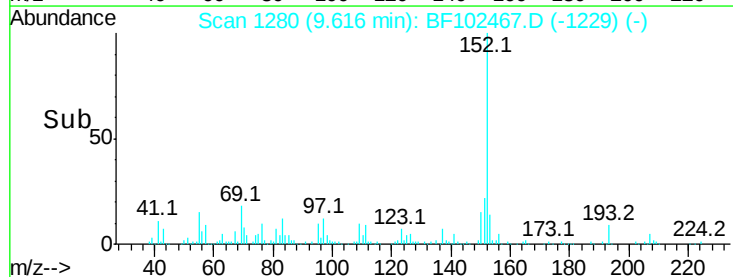
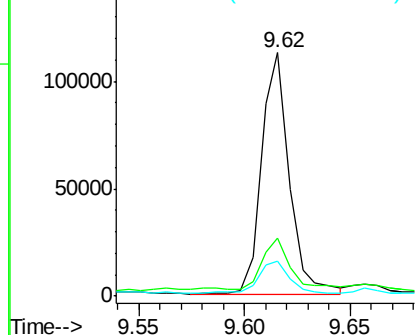


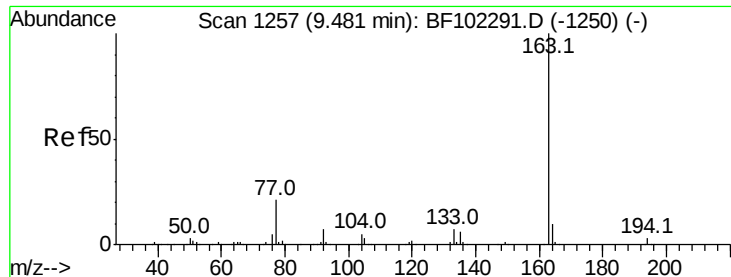
#48  
Acenaphthylene  
Concen: 4.599 ng  
RT: 9.62 min Scan# 1280  
Delta R.T. -0.00 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

Tgt Ion:152 Resp: 103414  
Ion Ratio Lower Upper  
152 100  
151 23.8 16.3 24.5  
153 14.5 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

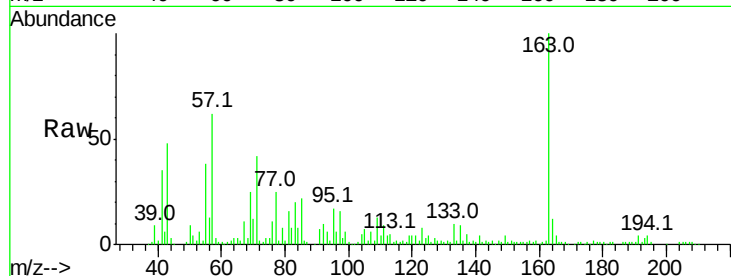




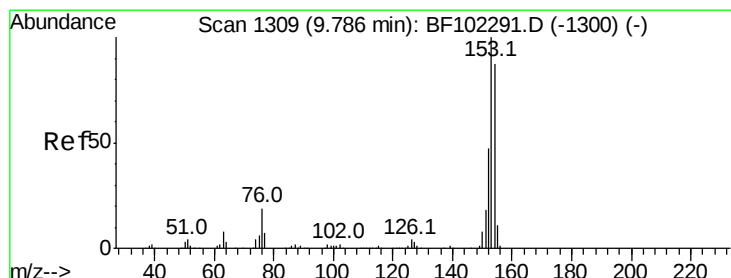
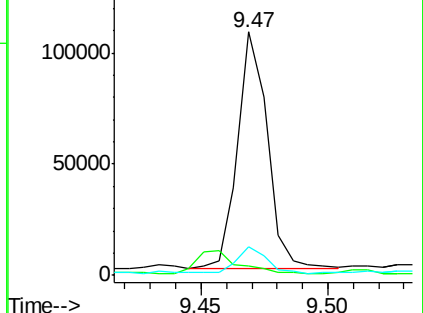
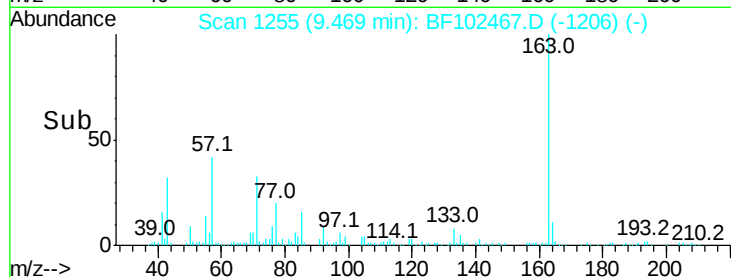
#49  
Dimethylphthalate  
Concen: 5.080 ng  
RT: 9.47 min Scan# 1255  
Delta R.T. -0.01 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:163 Resp: 87202  
Ion Ratio Lower Upper  
163 100  
194 3.9 2.7 4.1  
164 11.7 8.2 12.2

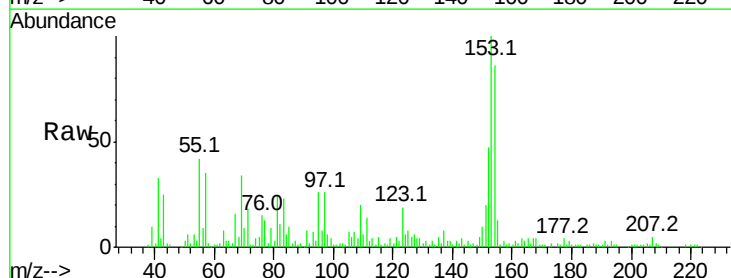


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

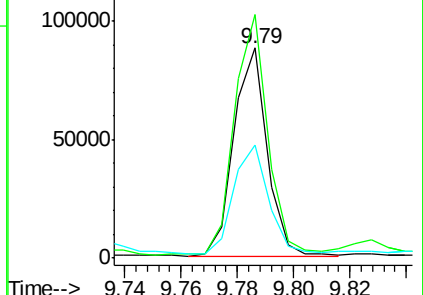
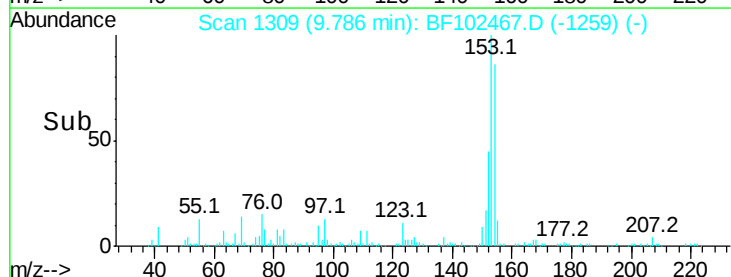


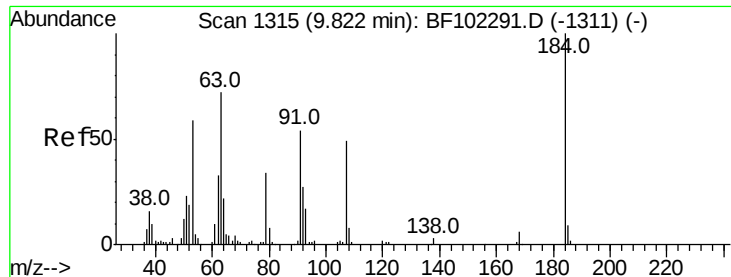
#51  
Acenaphthene  
Concen: 5.460 ng  
RT: 9.79 min Scan# 1309  
Delta R.T. -0.01 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

Tgt Ion:154 Resp: 71703  
Ion Ratio Lower Upper  
154 100  
153 115.9 91.2 136.8  
152 54.0 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





#53

2,4-Dinitrophenol

Concen: 3.760 ng

RT: 9.93 min Scan# 1334

Delta R.T. 0.10 min

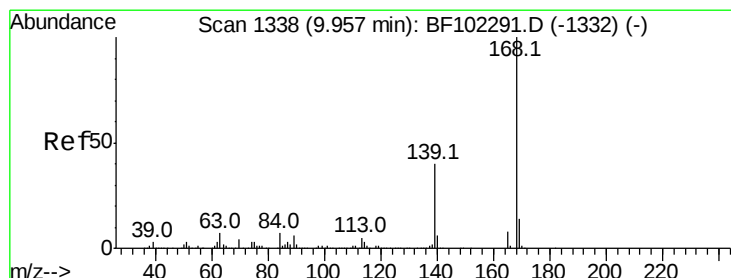
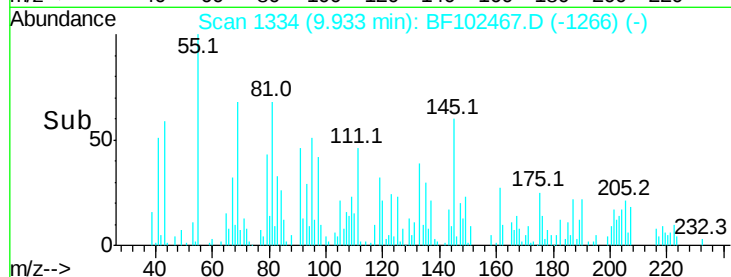
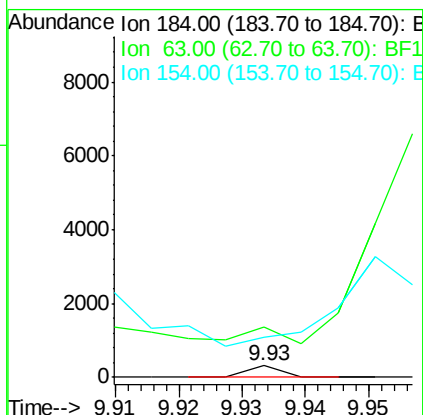
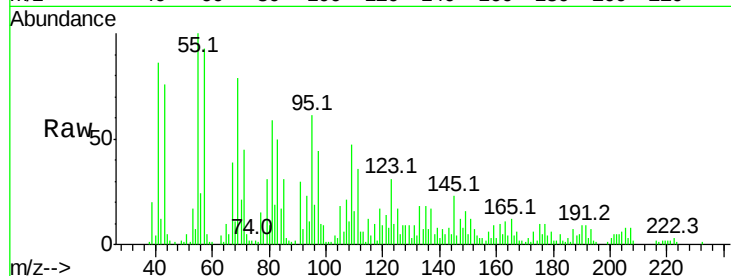
Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:184 Resp: 112

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 184 | 100   |       |        |
| 63  | 425.6 | 54.2  | 81.2#  |
| 154 | 339.1 | 184.0 | 276.0# |



#54

Dibenzofuran

Concen: 5.148 ng

RT: 9.96 min Scan# 1338

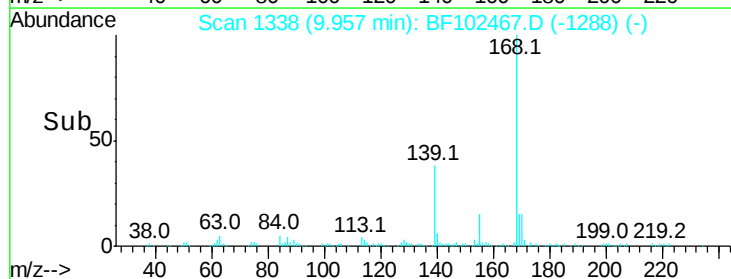
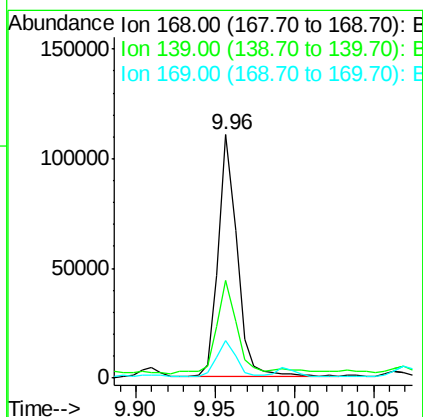
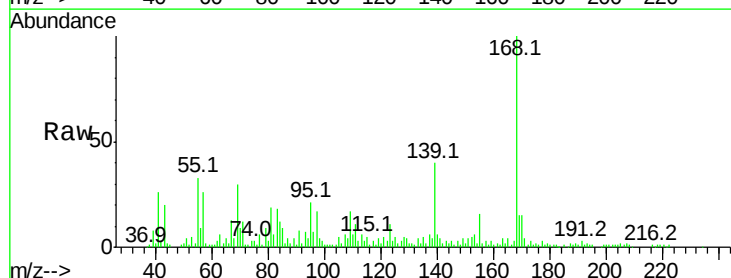
Delta R.T. -0.01 min

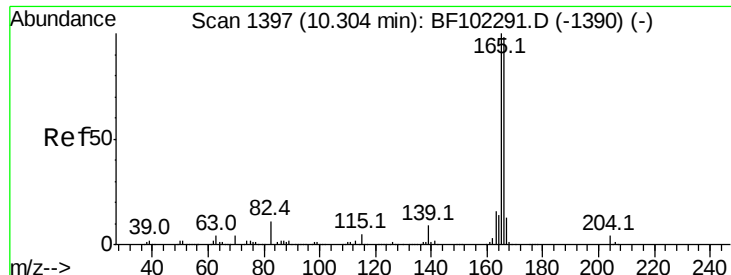
Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Tgt Ion:168 Resp: 91500

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 168 | 100   |       |       |
| 139 | 40.0  | 30.1  | 45.1  |
| 169 | 15.5  | 10.9  | 16.3  |

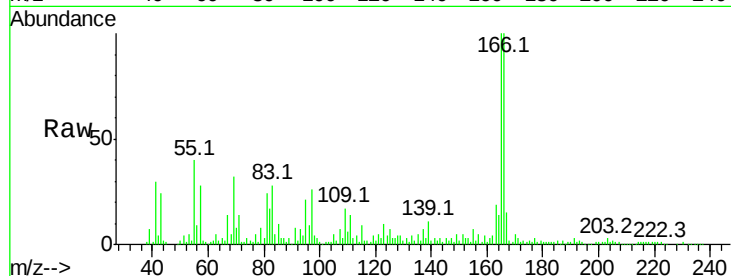




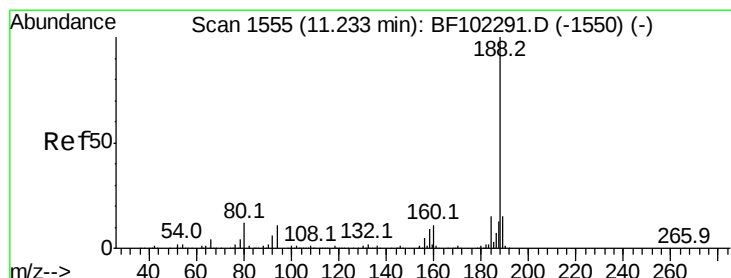
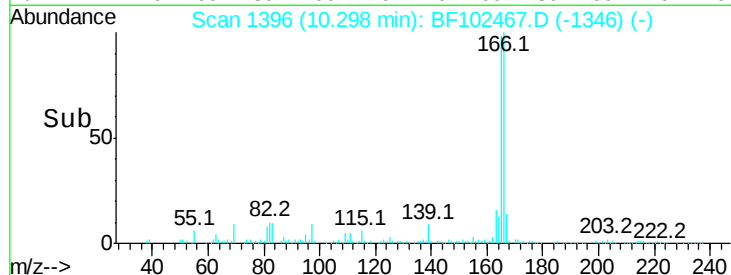
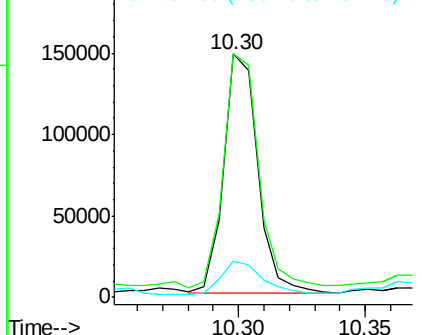
#57  
**Fluorene**  
 Concen: 9.696 ng  
 RT: 10.30 min Scan# 1396  
 Delta R.T. -0.01 min  
 Lab File: BF102467.D  
 Acq: 26 Jan 2018 14:39

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 100.0 | 79.8  | 119.8 |
| 167     | 15.0  | 10.6  | 16.0  |

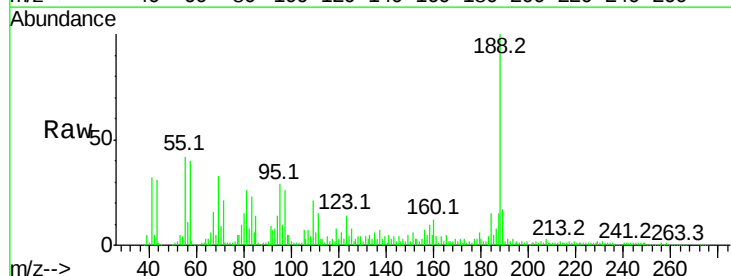


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

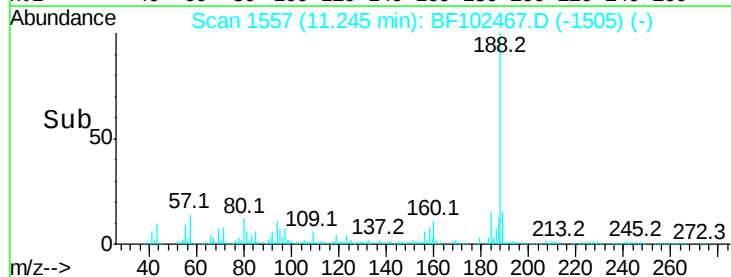
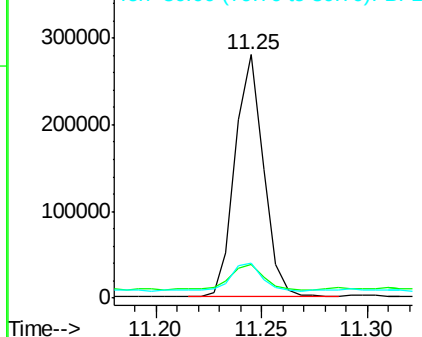


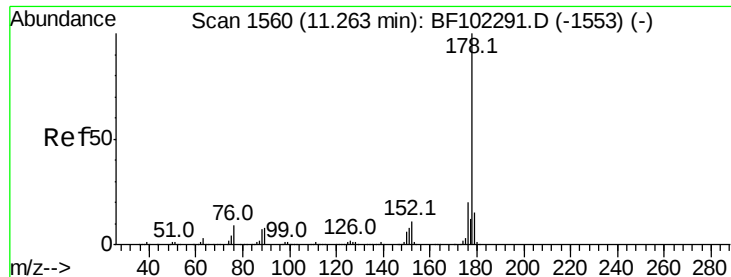
#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 11.25 min Scan# 1557  
 Delta R.T. 0.01 min  
 Lab File: BF102467.D  
 Acq: 26 Jan 2018 14:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 14.0  | 8.5   | 12.7# |
| 80      | 14.6  | 9.2   | 13.8# |



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 66.495 ng

RT: 11.27 min Scan# 1562

Delta R.T. 0.01 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Instrument :

BNA\_F

ClientSampled :

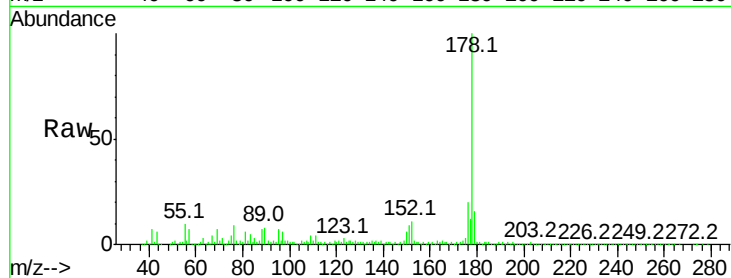
Tot Ion:178 Resp: 1005404

Ion Ratio Lower Upper

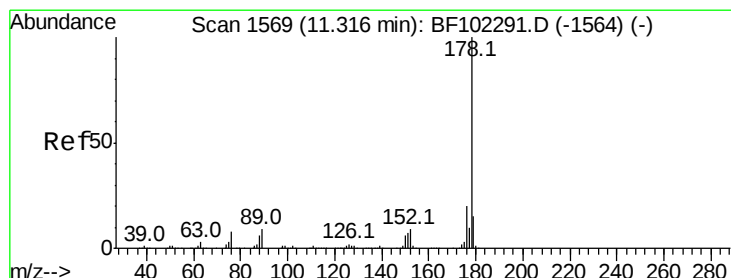
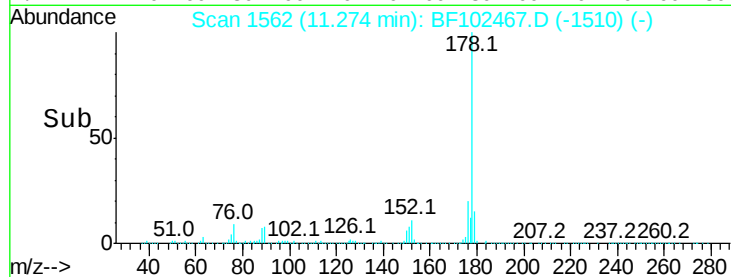
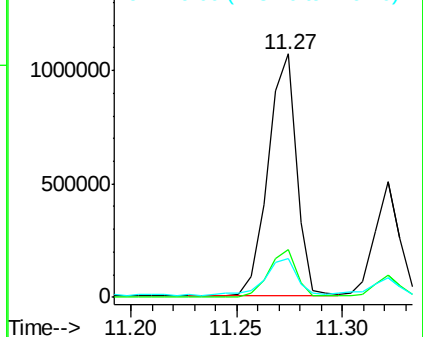
178 100

176 19.8 15.8 23.8

179 16.0 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: 25.750 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.01 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

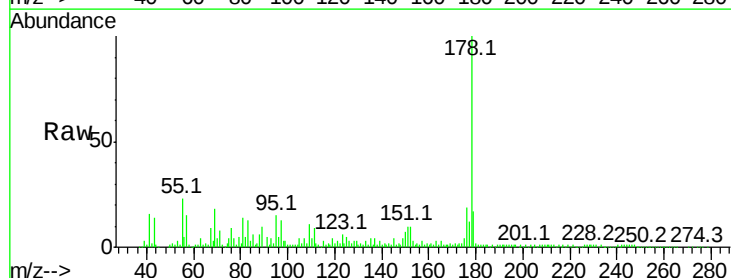
Tgt Ion:178 Resp: 397399

Ion Ratio Lower Upper

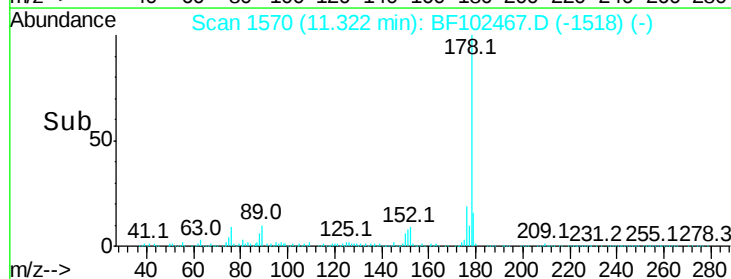
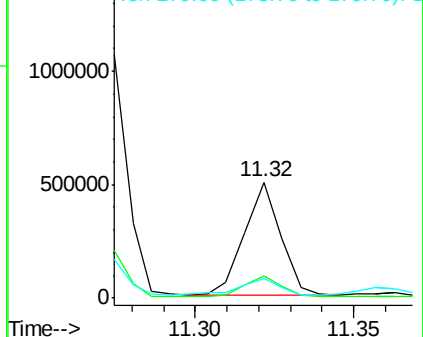
178 100

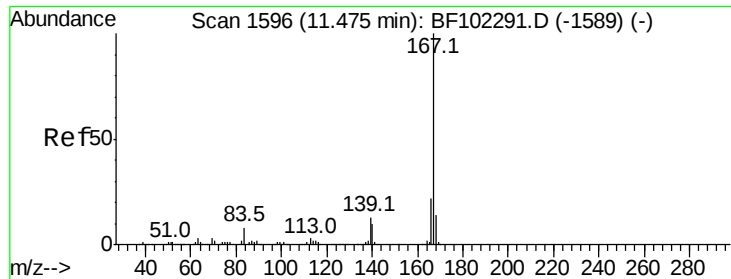
176 19.3 15.4 23.2

179 17.2 12.6 19.0



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





#72

Carbazole

Concen: 4.835 ng

RT: 11.48 min Scan# 1597

Delta R.T. 0.01 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Instrument :

BNA\_F

ClientSampleId :

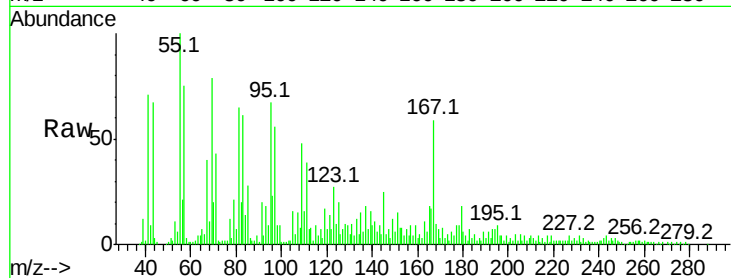
Tot Ion:167 Resp: 72790

Ion Ratio Lower Upper

167 100

166 28.5 17.6 26.4#

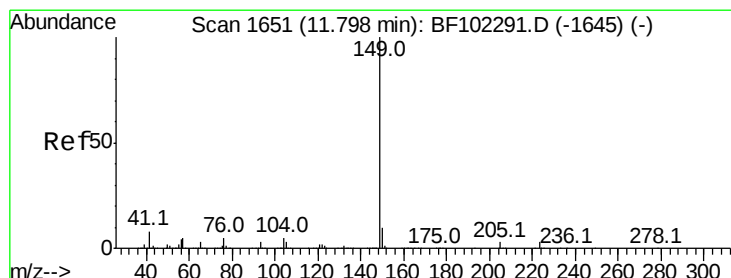
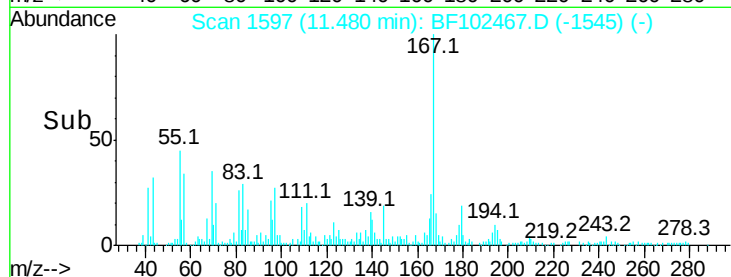
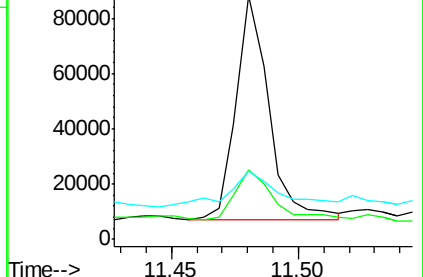
139 27.9 10.9 16.3#



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



#73

Di-n-butylphthalate

Concen: 3.756 ng

RT: 11.81 min Scan# 1653

Delta R.T. 0.01 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

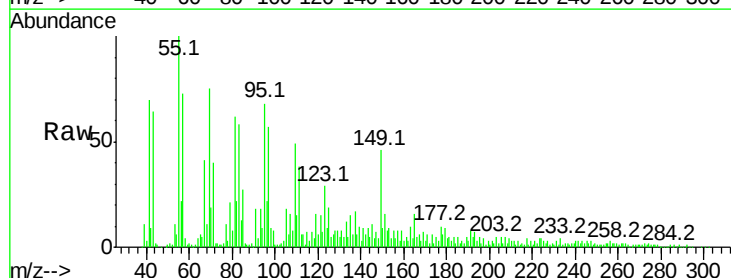
Tgt Ion:149 Resp: 70694

Ion Ratio Lower Upper

149 100

150 20.0 7.8 11.6#

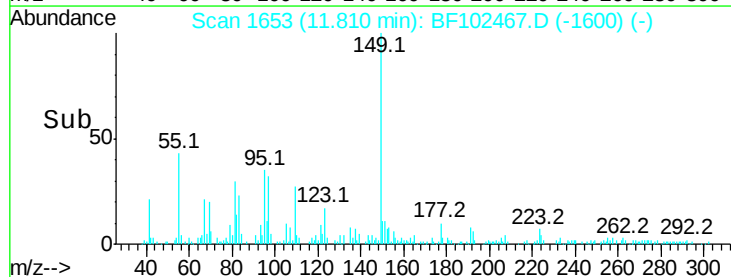
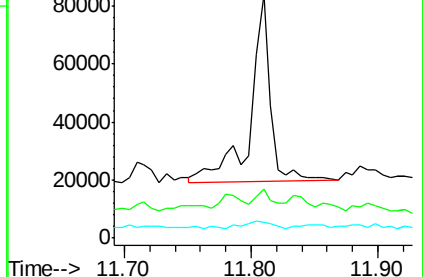
104 6.7 3.8 5.8#

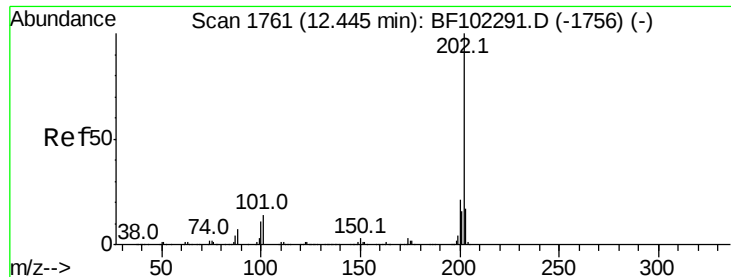


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 89.234 ng

RT: 12.48 min Scan# 1767

Delta R.T. 0.03 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Instrument :

BNA\_F

ClientSampleId :

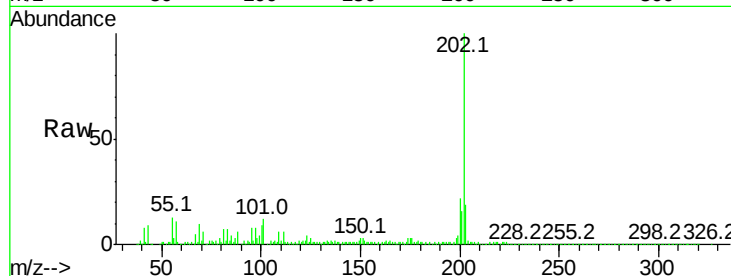
Tot Ion:202 Resp: 1375875

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 12.2  | 0.0   | 34.1  |
| 203 | 18.6  | 0.0   | 38.1  |

202 100

101 12.2 0.0 34.1

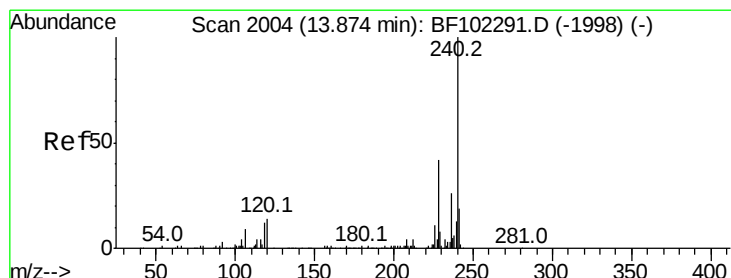
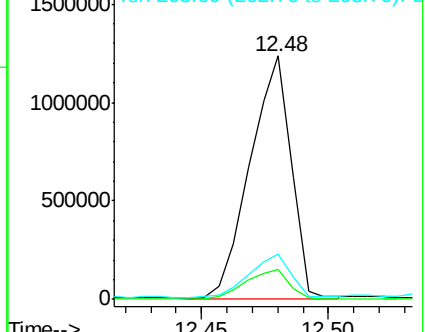
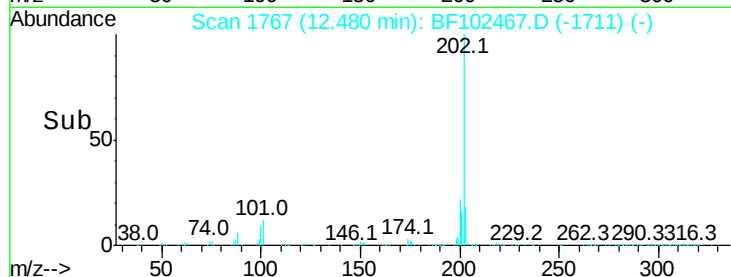
203 18.6 0.0 38.1



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: 13.92 min Scan# 2012

Delta R.T. 0.04 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

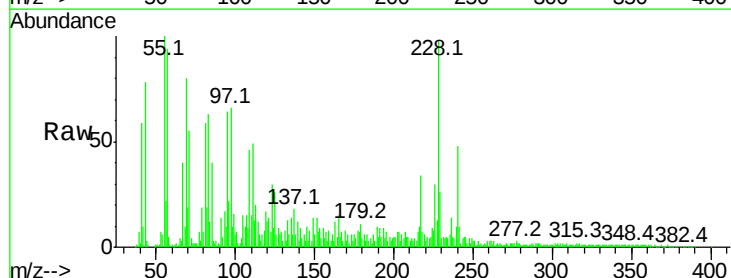
Tgt Ion:240 Resp: 141161

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 25.7  | 9.5   | 14.3# |
| 236 | 28.7  | 20.7  | 31.1  |

240 100

120 25.7 9.5 14.3#

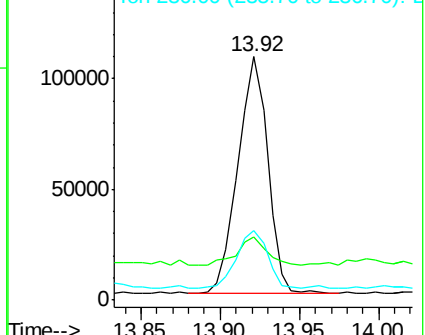
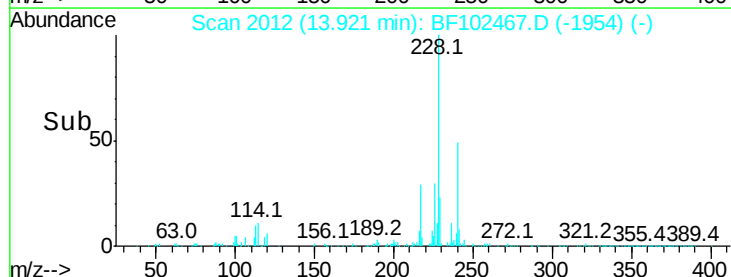
236 28.7 20.7 31.1

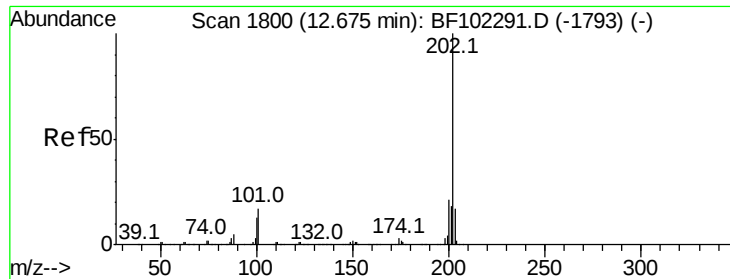


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

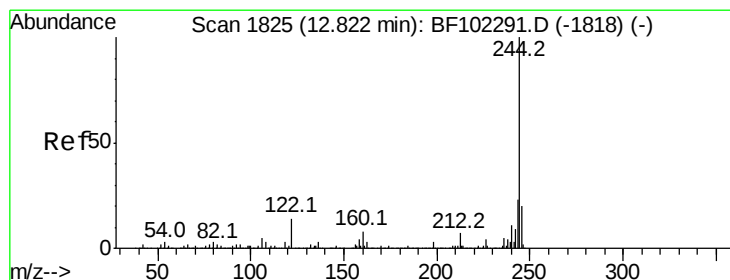
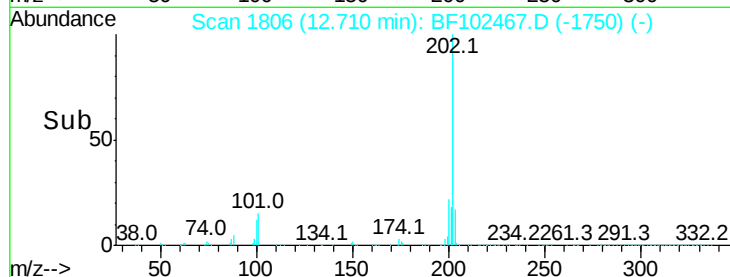
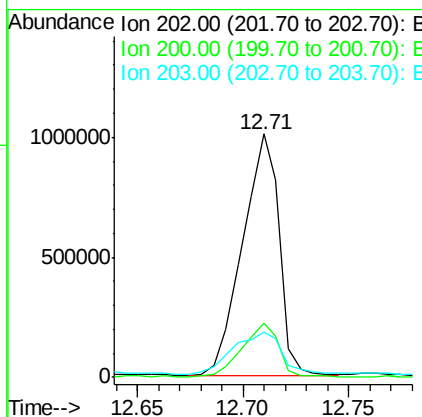
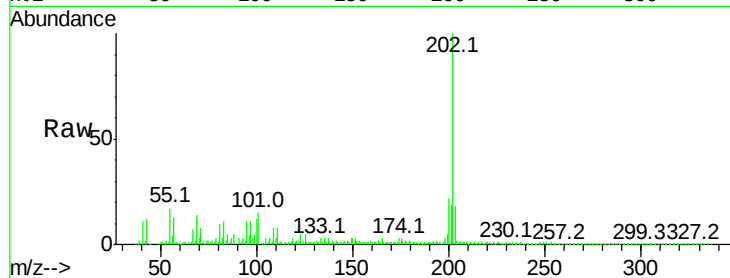




#77  
Pvrene  
Concen: 110.861 ng  
RT: 12.71 min Scan# 1806  
Delta R.T. 0.03 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

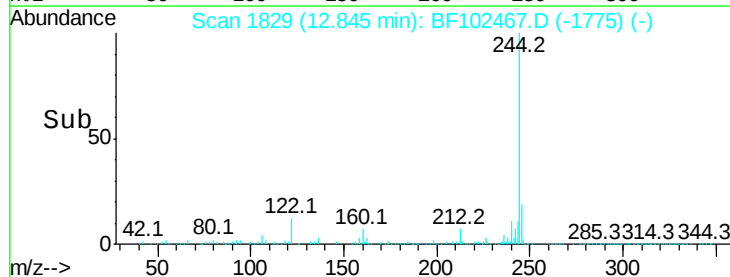
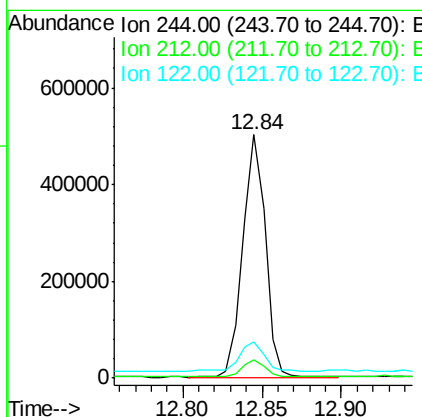
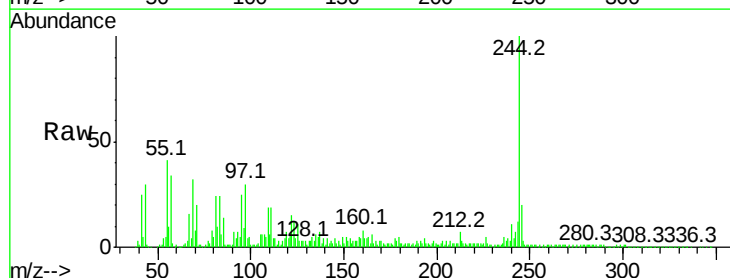
Instrument :  
BNA\_F  
ClientSampleId :

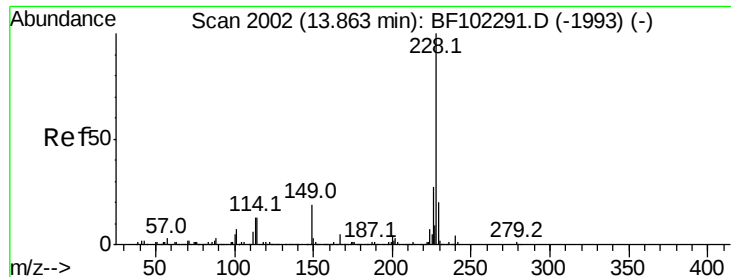
Tot Ion:202 Resp: 1209941  
Ion Ratio Lower Upper  
202 100  
200 22.3 17.4 26.2  
203 18.3 14.3 21.5



#78  
Terphenyl-d14  
Concen: 78.914 ng  
RT: 12.84 min Scan# 1829  
Delta R.T. 0.02 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

Tgt Ion:244 Resp: 494132  
Ion Ratio Lower Upper  
244 100  
212 7.3 5.4 8.0  
122 15.0 11.0 16.4

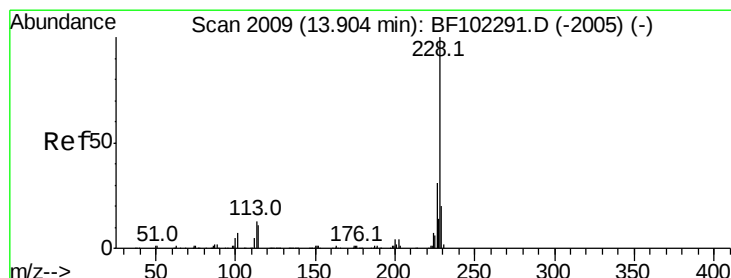
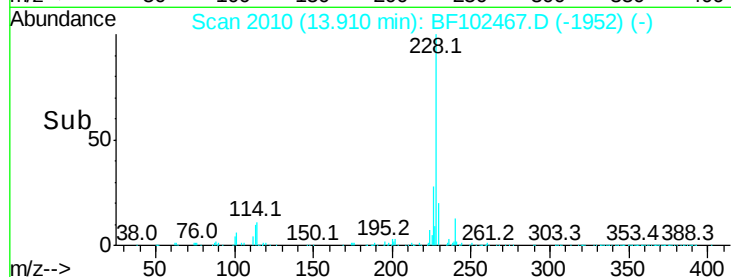
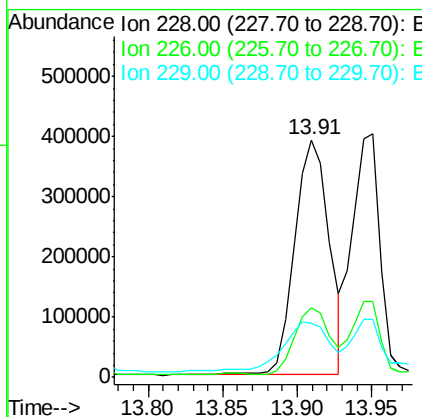
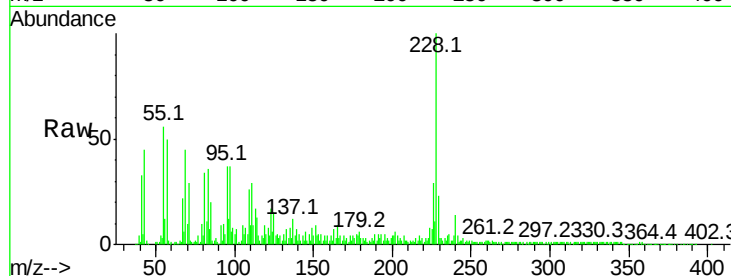




#80  
Benzo(a)anthracene  
Concen: 72.567 ng  
RT: 13.91 min Scan# 2010  
Delta R.T. 0.04 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

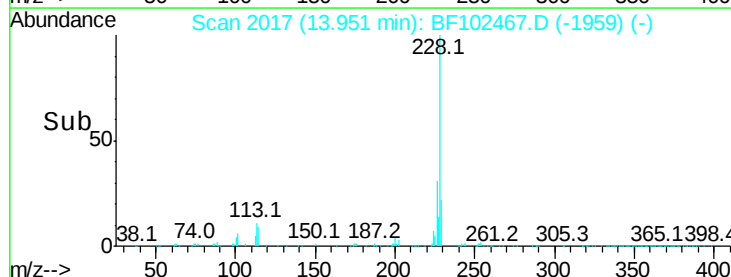
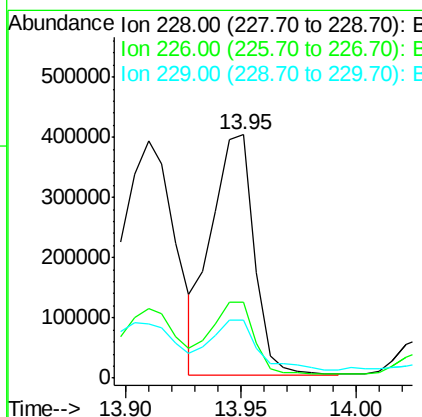
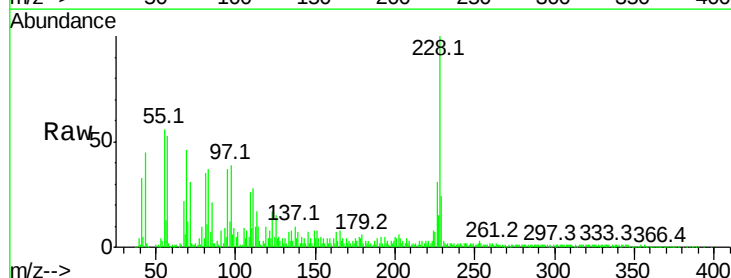
Instrument :  
BNA\_F  
ClientSampled :

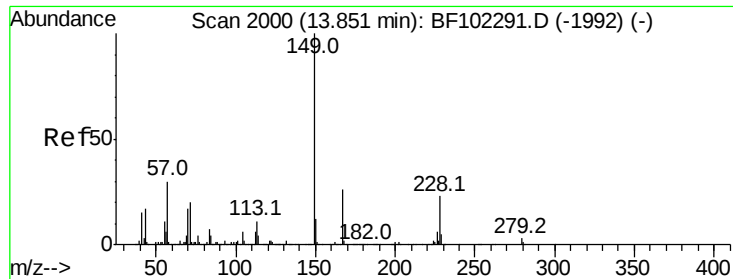
Tot Ion:228 Resp: 630667  
Ion Ratio Lower Upper  
228 100  
226 29.0 22.6 33.8  
229 22.8 15.8 23.6



#82  
Chrysene  
Concen: 58.565 ng  
RT: 13.95 min Scan# 2017  
Delta R.T. 0.04 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

Tgt Ion:228 Resp: 516861  
Ion Ratio Lower Upper  
228 100  
226 31.4 25.0 37.6  
229 23.9 16.2 24.4

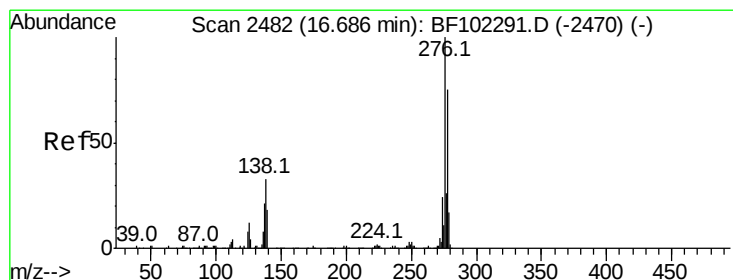
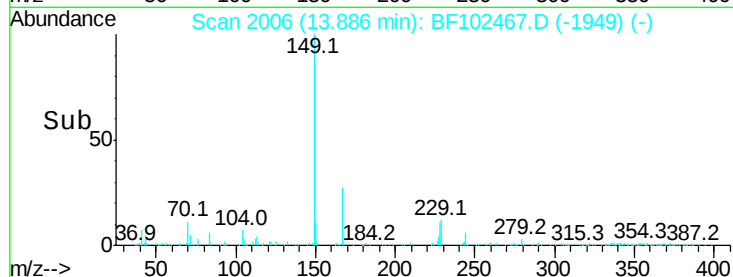
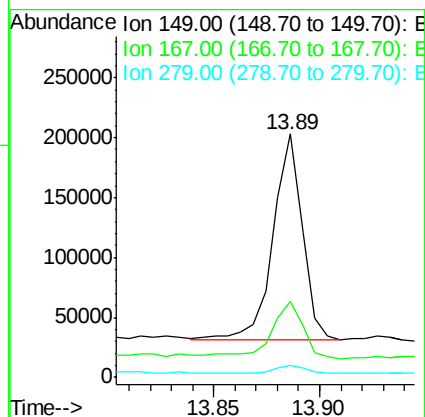
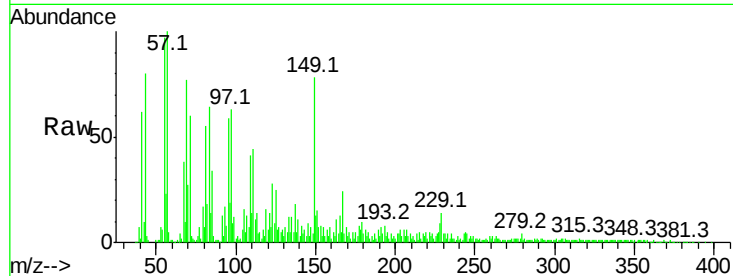




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 22.795 ng  
 RT: 13.89 min Scan# 2006  
 Delta R.T. 0.04 min  
 Lab File: BF102467.D  
 Acq: 26 Jan 2018 14:39

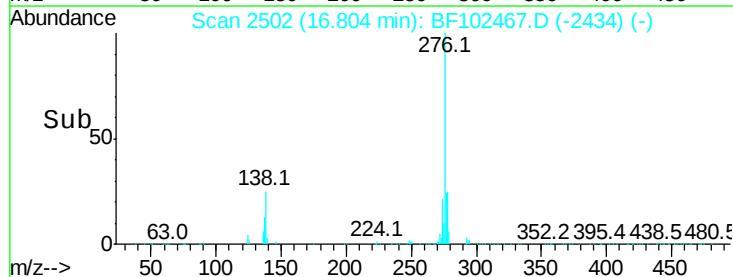
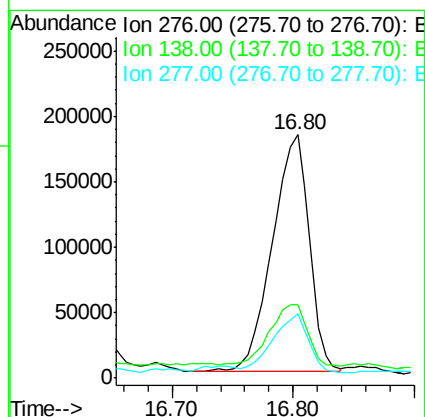
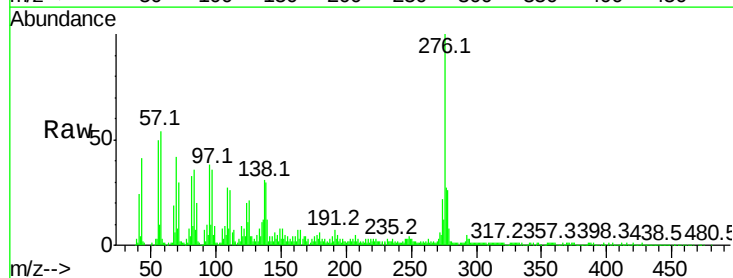
Instrument :  
 BNA\_F  
 ClientSampleId :

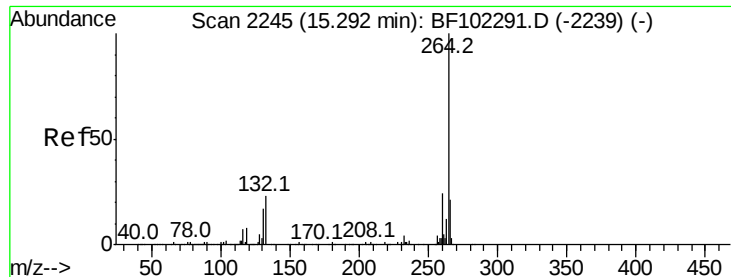
Tot Ion:149 Resp: 166385  
 Ion Ratio Lower Upper  
 149 100  
 167 31.3 21.3 31.9  
 279 4.8 3.0 4.4#



#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 52.314 ng  
 RT: 16.80 min Scan# 2502  
 Delta R.T. 0.10 min  
 Lab File: BF102467.D  
 Acq: 26 Jan 2018 14:39

Tgt Ion:276 Resp: 381298  
 Ion Ratio Lower Upper  
 276 100  
 138 27.2 25.0 37.6  
 277 24.3 20.1 30.1

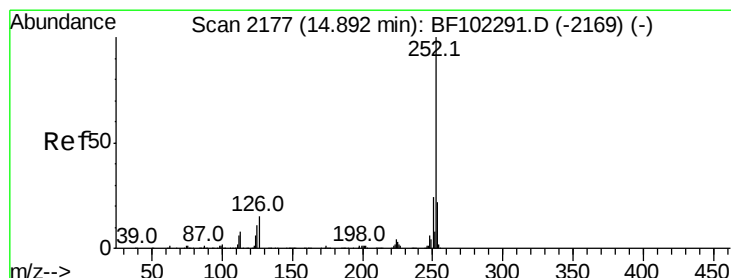
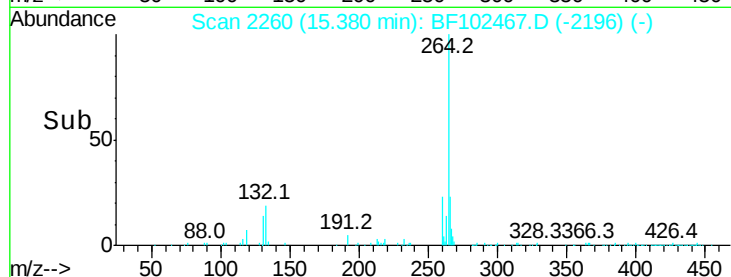
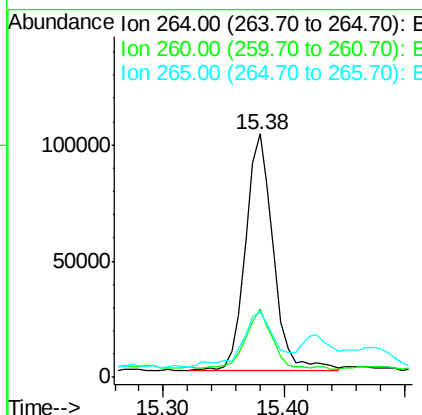
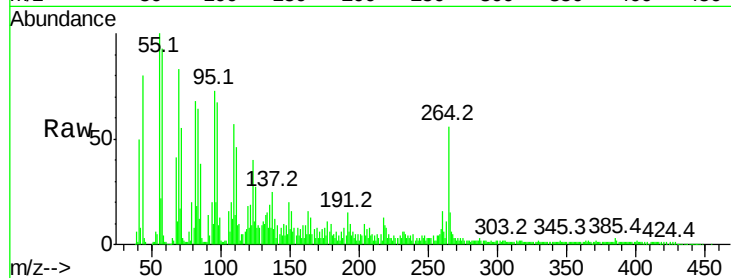




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.38 min Scan# 2260  
Delta R.T. 0.08 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

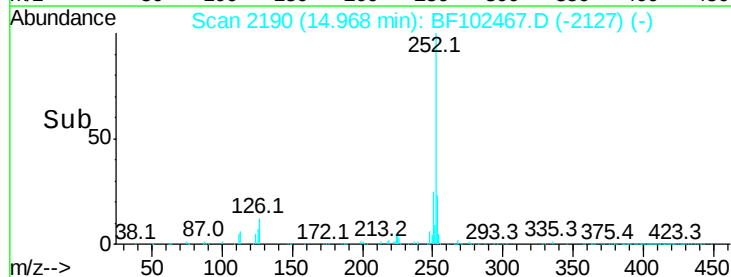
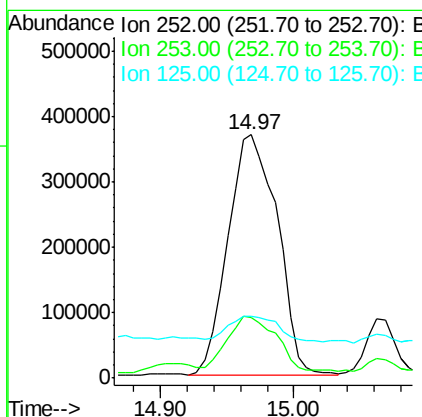
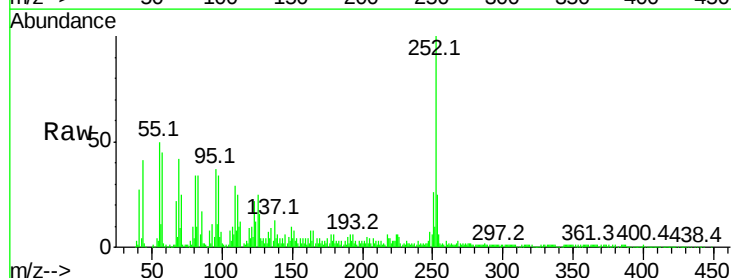
Instrument :  
BNA\_F  
ClientSampleId :

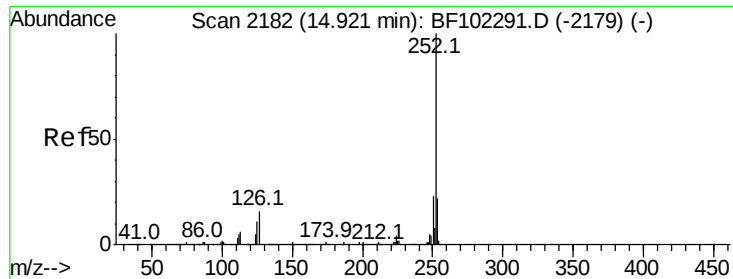
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 27.9  | 19.2  | 28.8  |
| 265     | 26.8  | 17.5  | 26.3  |



#87  
Benzo(b)fluoranthene  
Concen: 87.766 ng  
RT: 14.97 min Scan# 2190  
Delta R.T. 0.07 min  
Lab File: BF102467.D  
Acq: 26 Jan 2018 14:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.7  | 17.0  | 25.6  |
| 125     | 25.4  | 9.0   | 13.6  |





#88

Benzo(k)fluoranthene

Concen: 92.895 ng

RT: 14.97 min Scan# 2190

Delta R.T. 0.04 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Instrument :

BNA\_F

ClientSampleId :

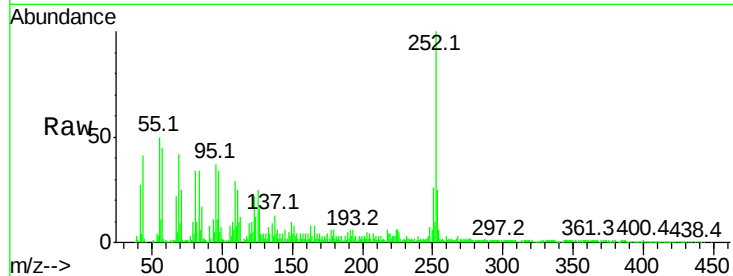
Tot Ion:252 Resp: 938806

Ion Ratio Lower Upper

252 100

253 24.7 17.9 26.9

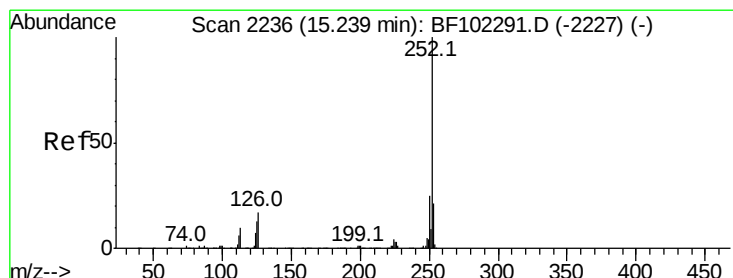
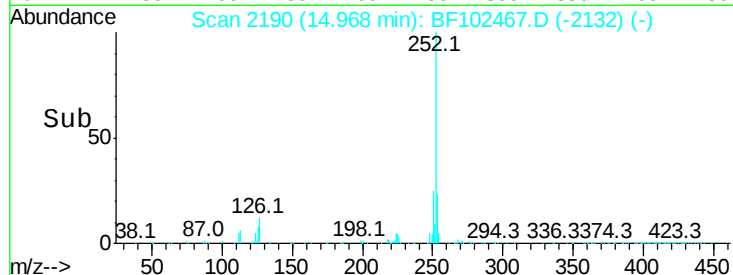
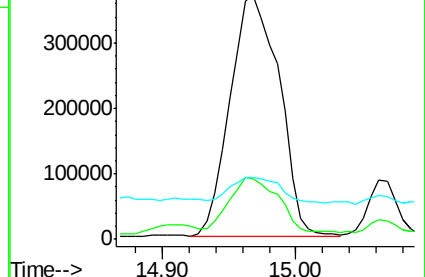
125 25.4 10.2 15.2#



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: 56.063 ng

RT: 15.33 min Scan# 2251

Delta R.T. 0.08 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

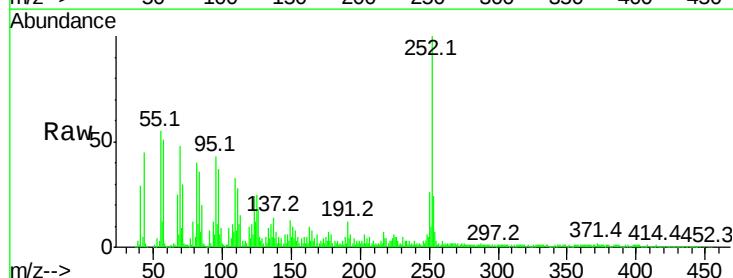
Tgt Ion:252 Resp: 540854

Ion Ratio Lower Upper

252 100

253 24.4 17.1 25.7

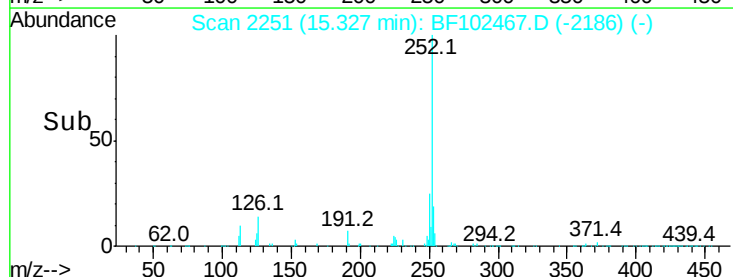
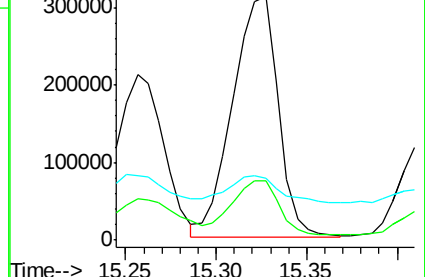
125 25.3 9.8 14.6#

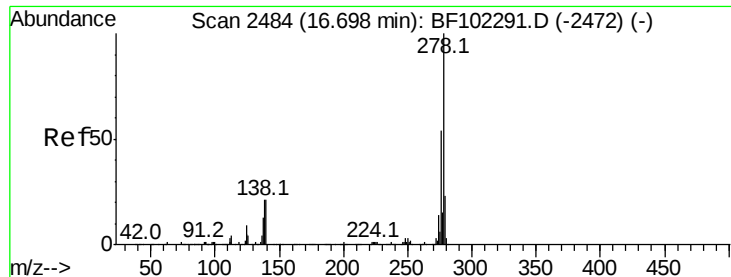


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 12.695 ng

RT: 16.80 min Scan# 2501

Delta R.T. 0.08 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Instrument :

BNA\_F

ClientSampleId :

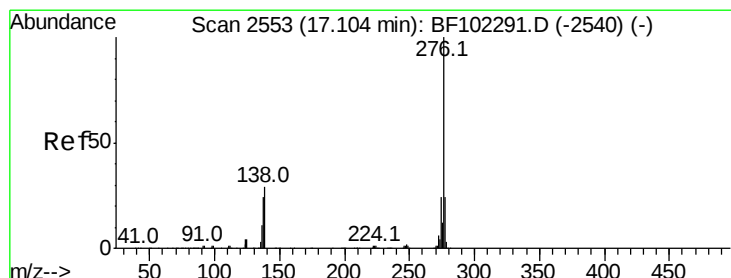
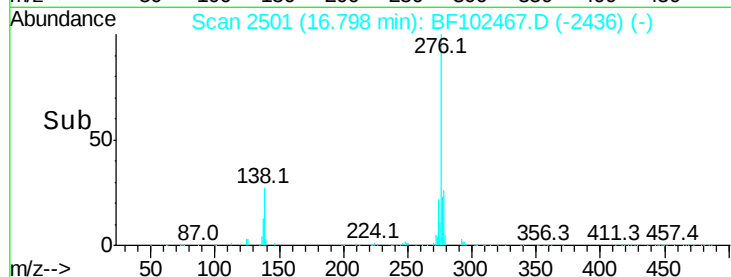
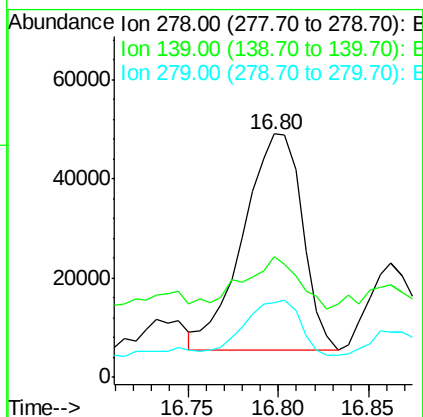
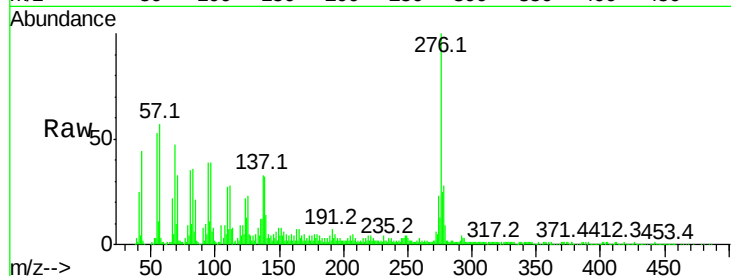
Tot Ion:278 Resp: 99207

Ion Ratio Lower Upper

278 100

139 49.5 15.9 23.9#

279 30.8 19.0 28.4#



#91

Benzo(g,h,i)perylene

Concen: 48.217 ng

RT: 17.23 min Scan# 2574

Delta R.T. 0.10 min

Lab File: BF102467.D

Acq: 26 Jan 2018 14:39

Tgt Ion:276 Resp: 372053

Ion Ratio Lower Upper

276 100

277 24.7 17.9 26.9

138 32.5 21.8 32.8

