

Data Path : U:\HPCHEM1\BNA F\DATA\BF012418\  
 Data File : BF102405.D  
 Acq On : 24 Jan 2018 22:20  
 Operator : SJ/JU  
 Sample : J1236-07  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 25 00:11:48 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 23 00:43:41 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 126101   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.00  | 136  | 501637   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.75  | 164  | 218823   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.23 | 188  | 346864   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.87 | 240  | 251203   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.30 | 264  | 253769   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.33  | 112  | 809354   | 97.32 | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 958680   | 95.62 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 560052   | 64.16 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 175099   | 80.76 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.07  | 172  | 882721   | 59.31 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.82 | 244  | 665041   | 59.68 | ng    | 0.00     |

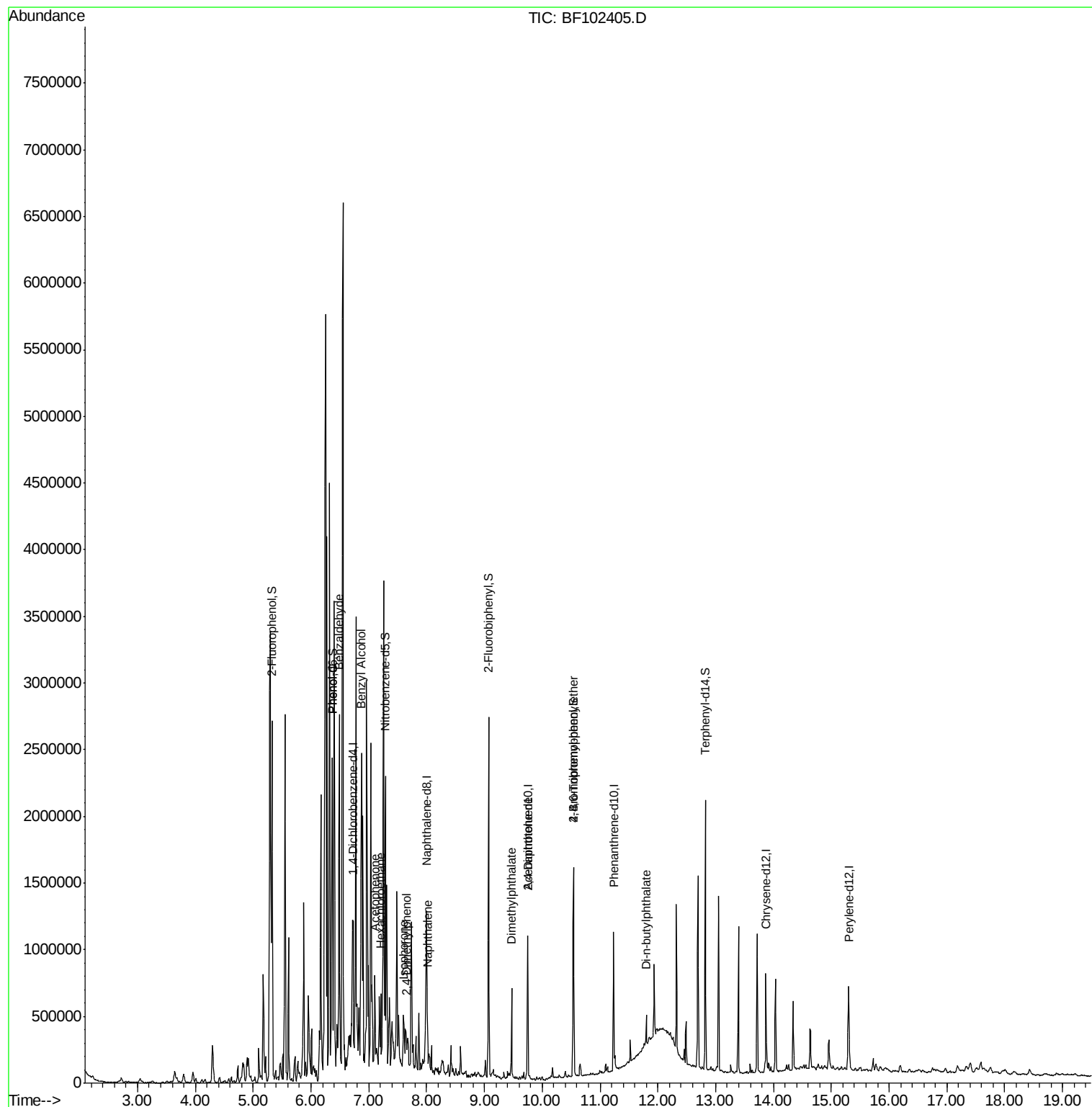
| Target Compounds              | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde               | 6.49  | 77   | 15844    | 2.303  | ng    | 82     |
| 10) Phenol                    | 6.37  | 94   | 36440    | 3.329  | ng    | 83     |
| 15) Benzyl Alcohol            | 6.87  | 79   | 15651    | 2.212  | ng    | # 34   |
| 18) Hexachloroethane          | 7.20  | 117  | 12395    | 3.425  | ng    | # 1    |
| 22) Acetophenone              | 7.11  | 105  | 60270    | 5.040  | ng    | # 61   |
| 25) Isophorone                | 7.61  | 82   | 51477    | 3.308  | ng    | # 66   |
| 27) 2,4-Dimethylphenol        | 7.66  | 122  | 16894    | 2.475  | ng    | 86     |
| 31) Naphthalene               | 8.02  | 128  | 51314    | 2.049  | ng    | # 94   |
| 49) Dimethylphthalate         | 9.47  | 163  | 229316   | 12.678 | ng    | 98     |
| 56) 2,4-Dinitrotoluene        | 9.75  | 165  | 28599    | 5.964  | ng    | # 23   |
| 66) 4-Bromophenyl-phenylether | 10.54 | 248  | 11367    | 3.044  | ng    | # 1    |
| 73) Di-n-butylphthalate       | 11.80 | 149  | 108117   | 4.297  | ng    | # 98   |

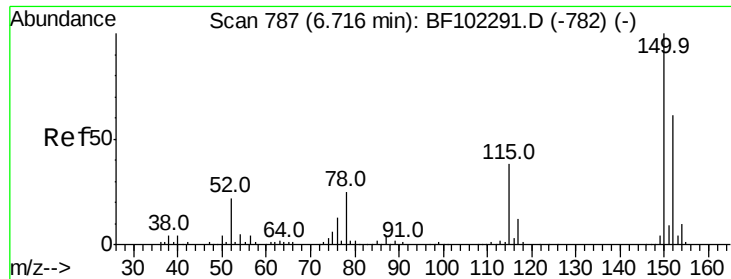
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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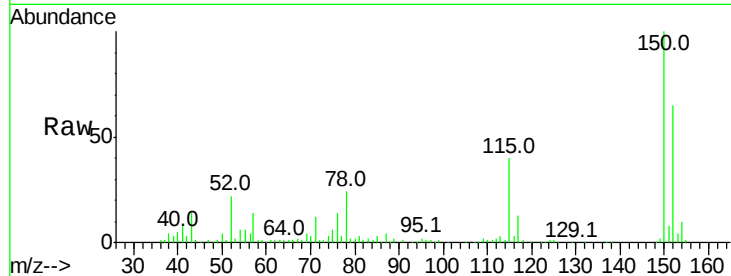


#1

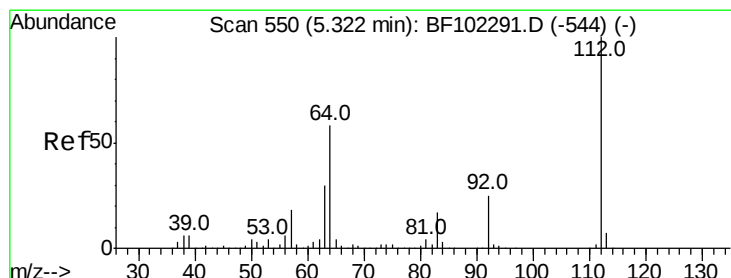
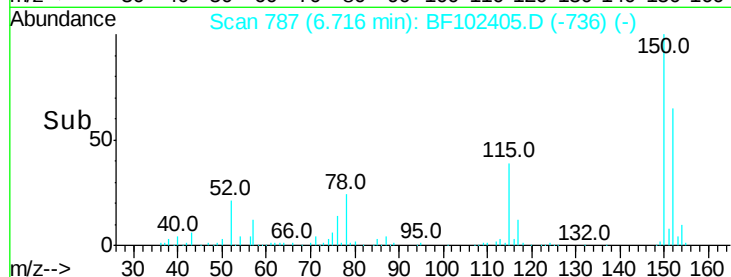
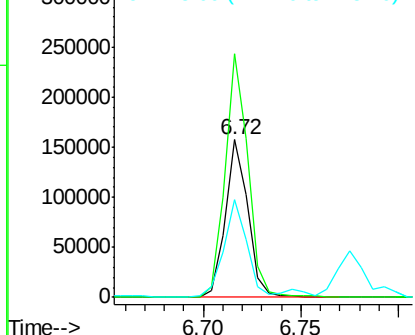
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 787  
Delta R.T. -0.00 min  
Lab File: BF102405.D  
Acq: 24 Jan 2018 22:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 126101  
Ion Ratio Lower Upper  
152 100  
150 154.5 124.6 186.8  
115 62.1 50.1 75.1



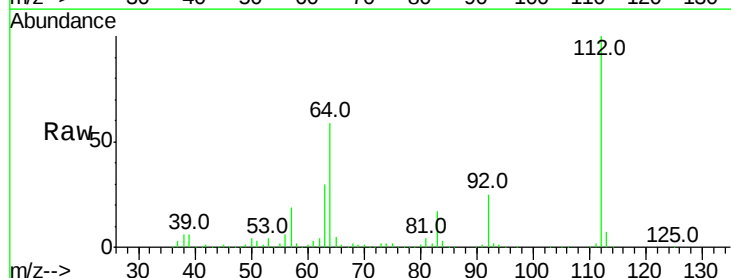
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



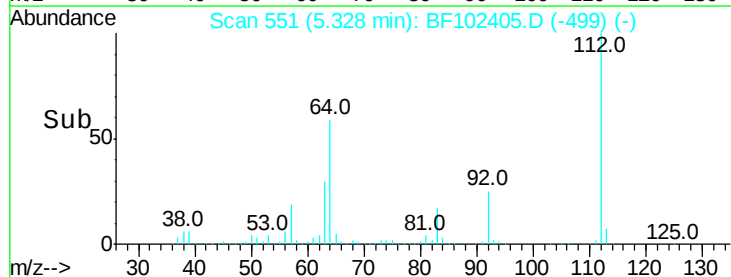
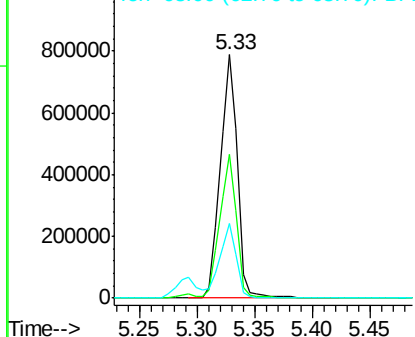
#5

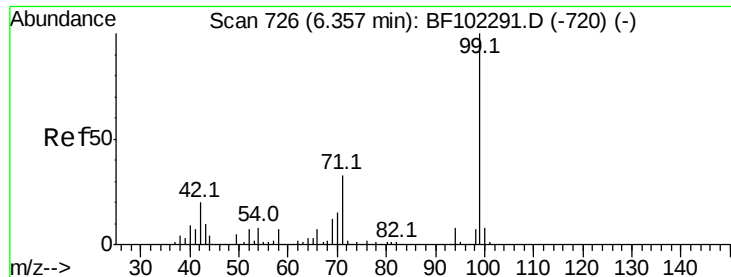
2-Fluorophenol  
Concen: 97.318 ng  
RT: 5.33 min Scan# 551  
Delta R.T. 0.01 min  
Lab File: BF102405.D  
Acq: 24 Jan 2018 22:20

Tgt Ion:112 Resp: 809354  
Ion Ratio Lower Upper  
112 100  
64 58.9 47.9 71.9  
63 30.5 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: 95.616 ng

RT: 6.37 min Scan# 728

Delta R.T. 0.01 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

Instrument :

BNA\_F

ClientSampled :

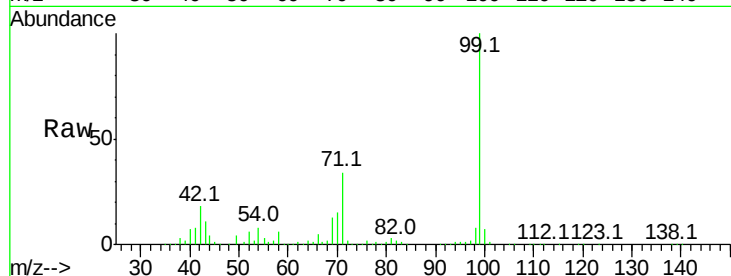
Tot Ion: 99 Resp: 958680

Ion Ratio Lower Upper

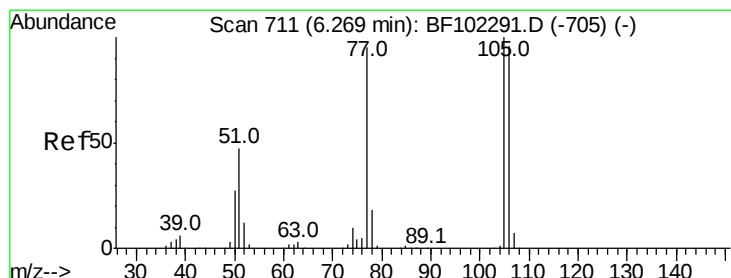
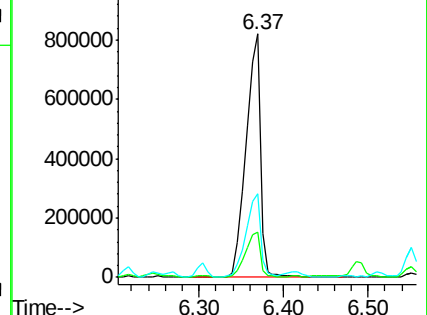
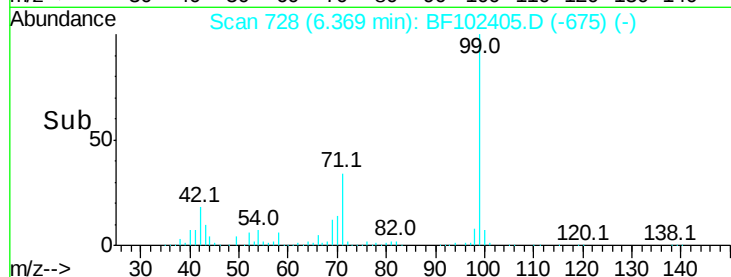
99 100

42 18.4 14.5 21.7

71 34.2 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: 2.303 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.22 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

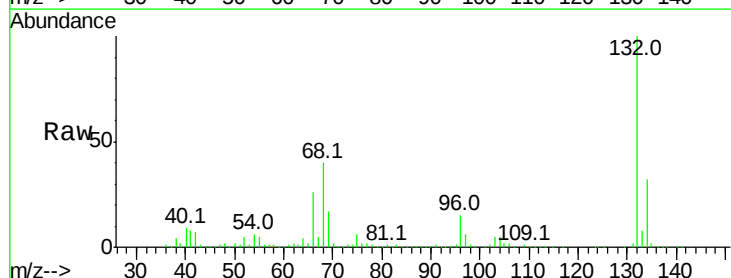
Tgt Ion: 77 Resp: 15844

Ion Ratio Lower Upper

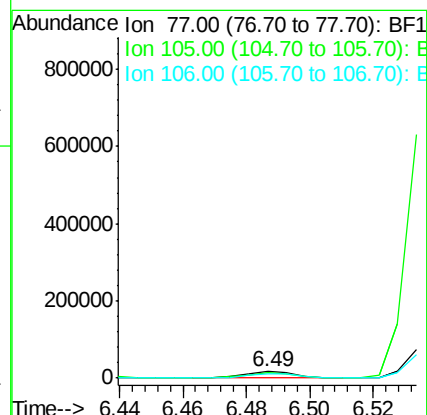
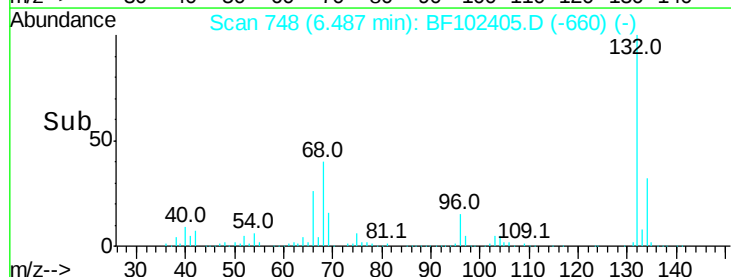
77 100

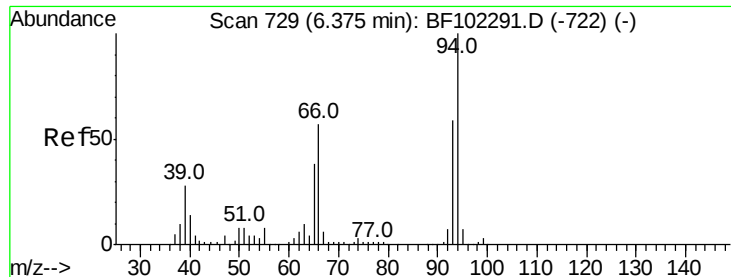
105 85.8 81.1 121.1

106 74.6 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

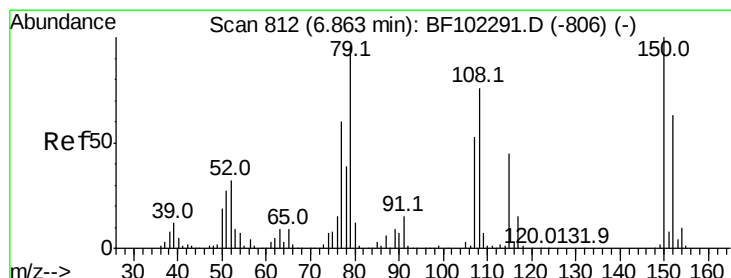
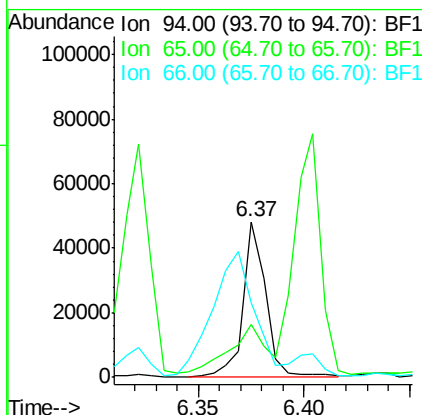
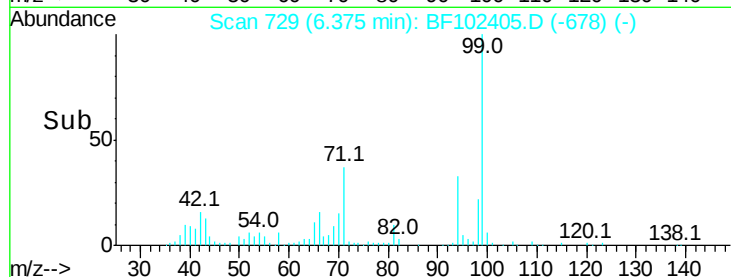
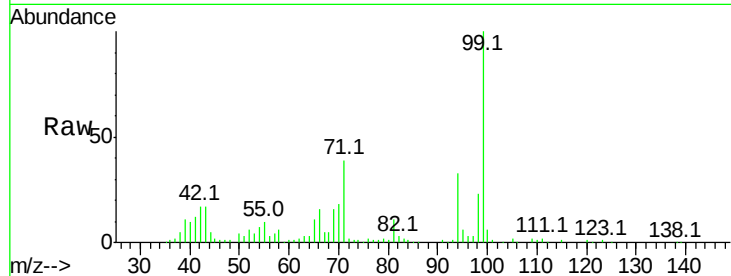




#10  
Phenol  
Concen: 3.329 ng  
RT: 6.37 min Scan# 729  
Delta R.T. -0.00 min  
Lab File: BF102405.D  
Acq: 24 Jan 2018 22:20

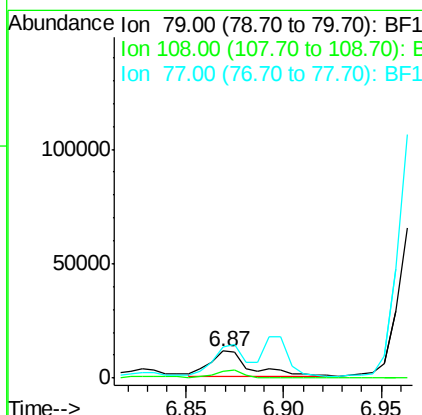
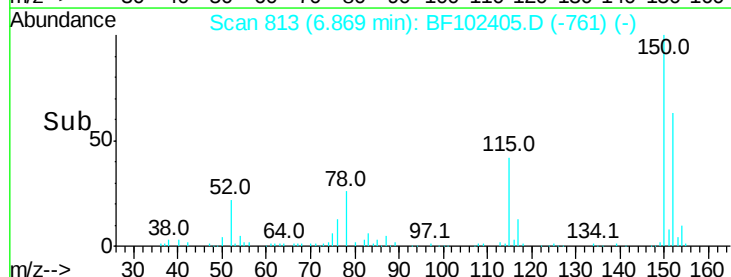
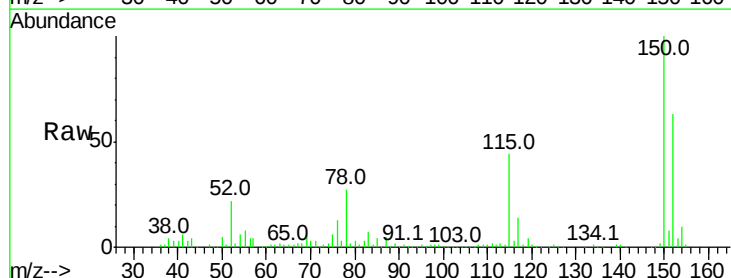
Instrument :  
BNA\_F  
ClientSampled :

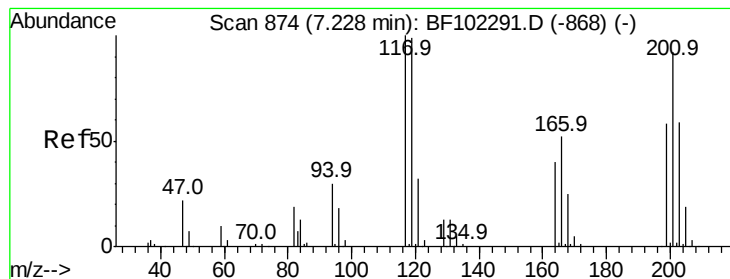
Tot Ion: 94 Resp: 36440  
Ion Ratio Lower Upper  
94 100  
65 34.2 7.9 47.9  
66 48.2 16.2 56.2



#15  
Benzyl Alcohol  
Concen: 2.212 ng  
RT: 6.87 min Scan# 813  
Delta R.T. 0.01 min  
Lab File: BF102405.D  
Acq: 24 Jan 2018 22:20

Tgt Ion: 79 Resp: 15651  
Ion Ratio Lower Upper  
79 100  
108 26.9 65.1 97.7#  
77 118.8 50.6 75.8#





#18

Hexachloroethane

Concen: 3.425 ng

RT: 7.20 min Scan# 870

Delta R.T. -0.02 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

Instrument :

BNA\_F

ClientSampled :

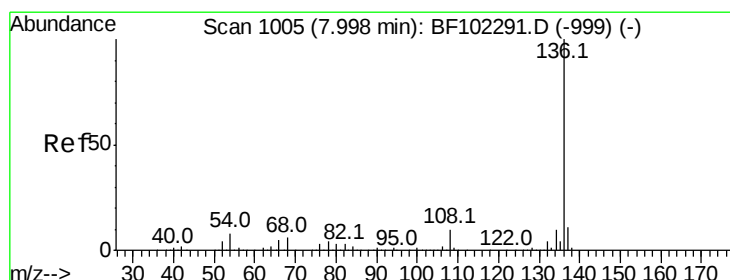
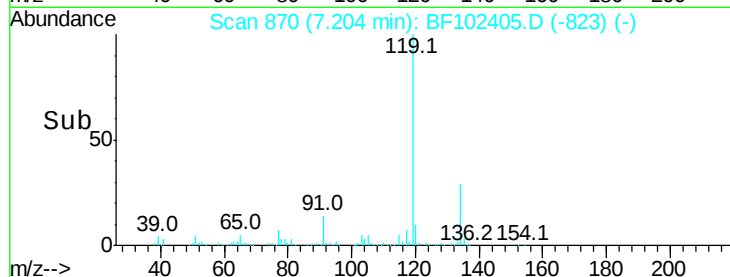
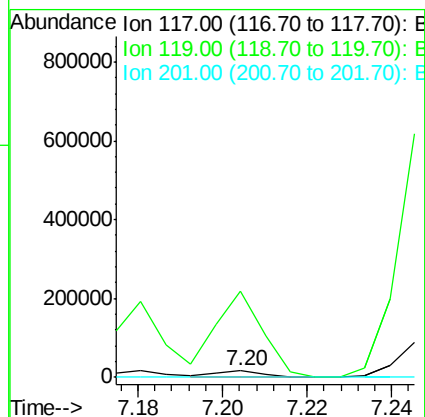
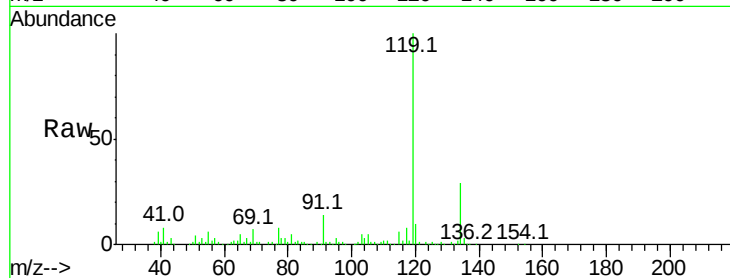
Tot Ion:117 Resp: 12395

Ion Ratio Lower Upper

117 100

119 1303.0 75.8 113.8#

201 0.0 75.7 113.5#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

Tgt Ion:136 Resp: 501637

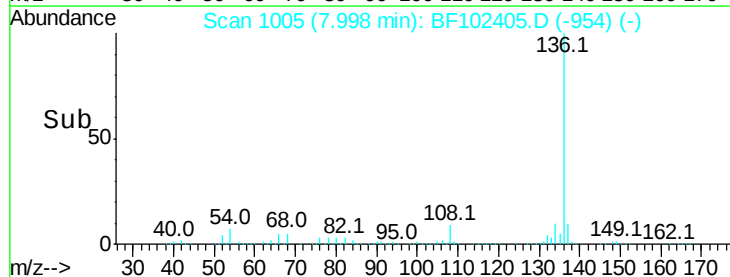
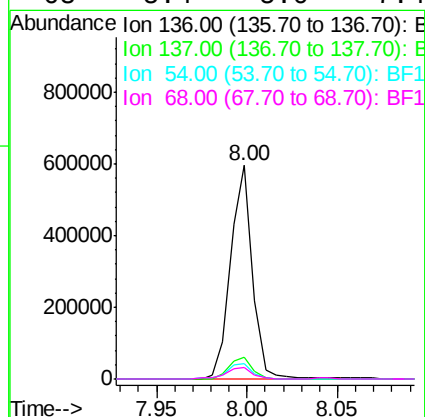
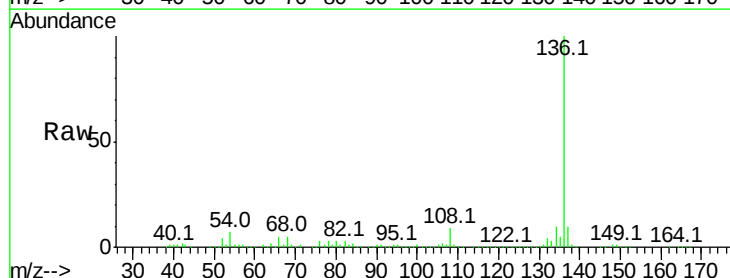
Ion Ratio Lower Upper

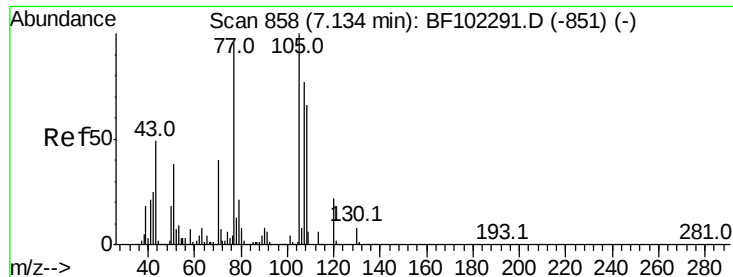
136 100

137 10.5 8.9 13.3

54 7.4 6.6 9.8

68 5.4 5.0 7.4





#22

Acetophenone

Concen: 5.040 ng

RT: 7.11 min Scan# 854

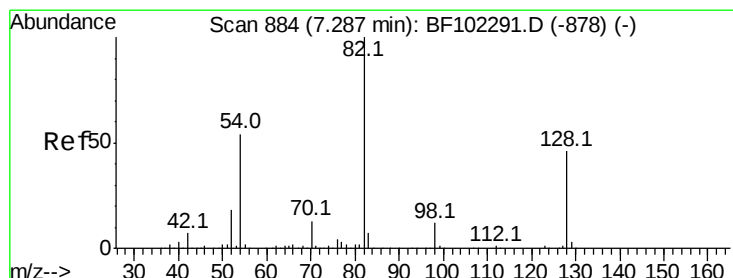
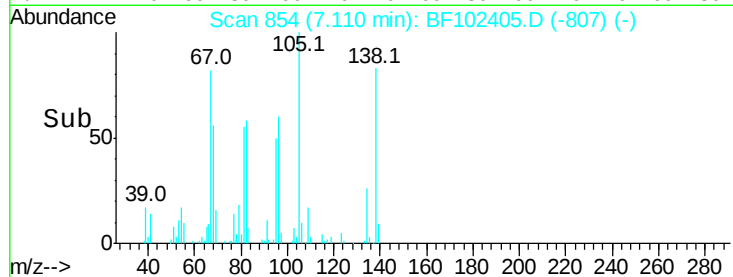
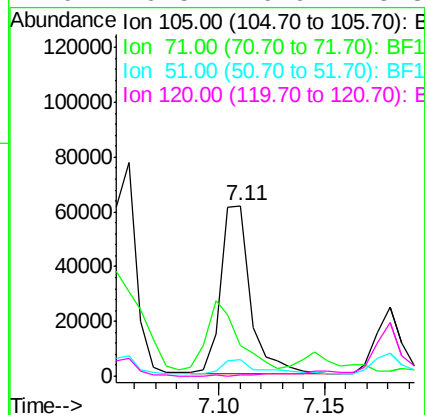
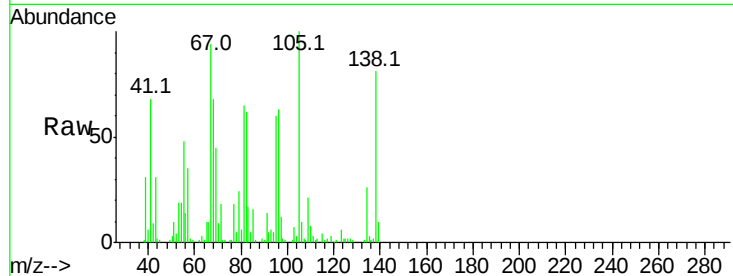
Delta R.T. -0.02 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

Instrument :  
BNA\_F  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 105   | Resp: | 60270 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 17.7  | 4.4   | 6.6#  |
| 51       | 9.6   | 22.3  | 33.5# |
| 120      | 0.5   | 16.9  | 25.3# |



#23

Nitrobenzene-d5

Concen: 64.159 ng

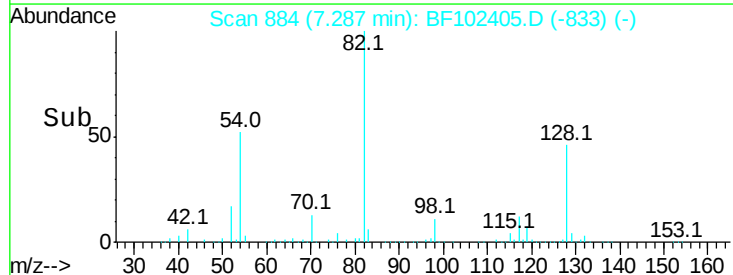
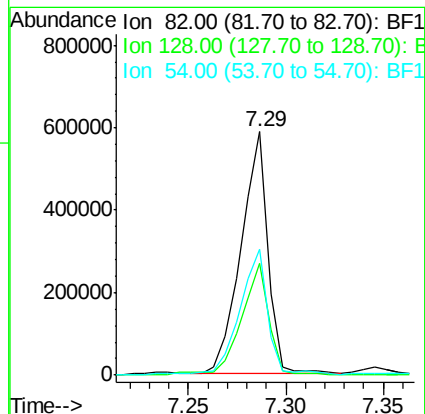
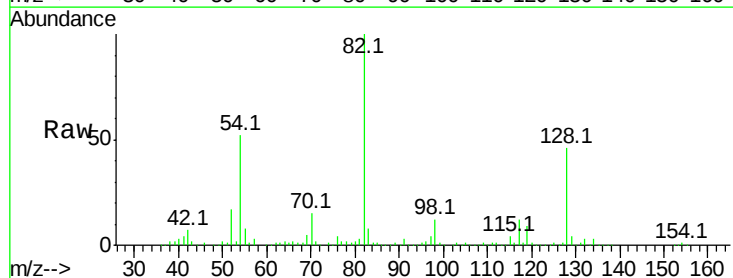
RT: 7.29 min Scan# 884

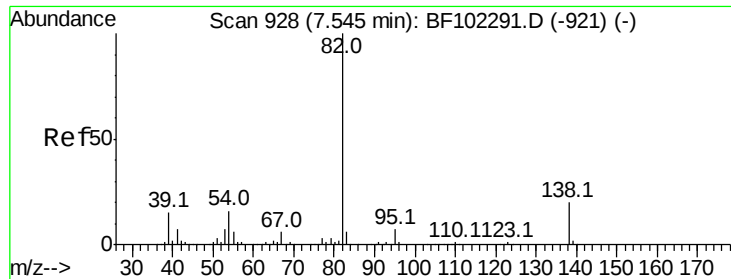
Delta R.T. -0.00 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 560052 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.7  | 36.1  | 54.1   |
| 54       | 51.8  | 41.4  | 62.2   |





#25

Isophorone

Concen: 3.308 ng

RT: 7.61 min Scan# 939

Delta R.T. 0.06 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

Instrument :

BNA\_F

ClientSampleId :

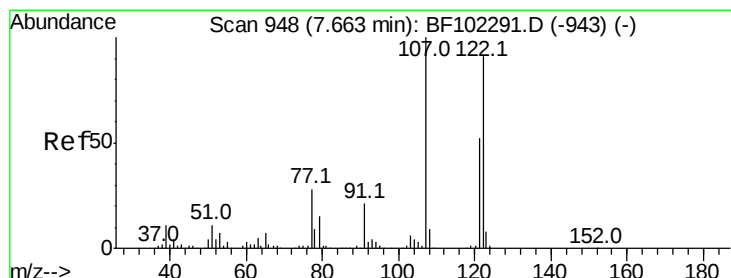
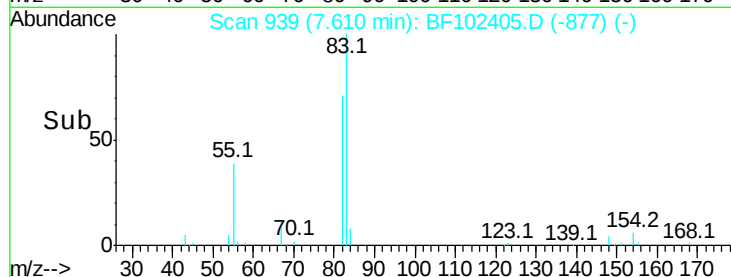
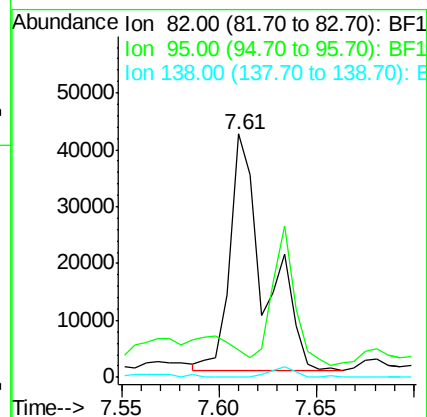
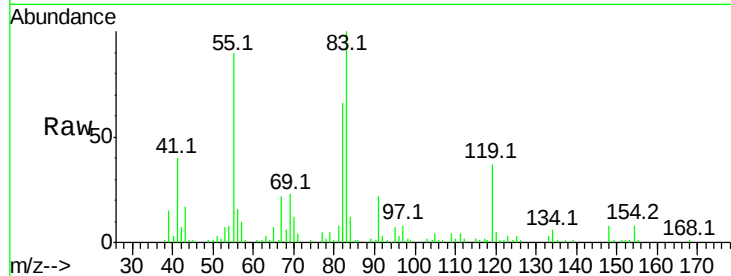
Tot Ion: 82 Resp: 51477

Ion Ratio Lower Upper

82 100

95 11.1 5.2 7.8#

138 0.0 14.9 22.3#



#27

2,4-Dimethylphenol

Concen: 2.475 ng

RT: 7.66 min Scan# 947

Delta R.T. -0.01 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

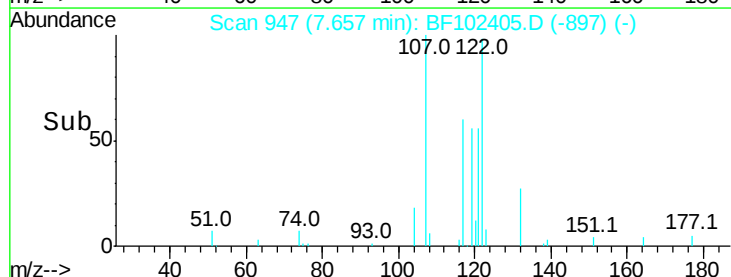
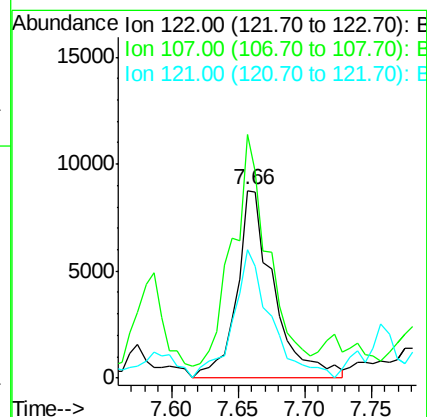
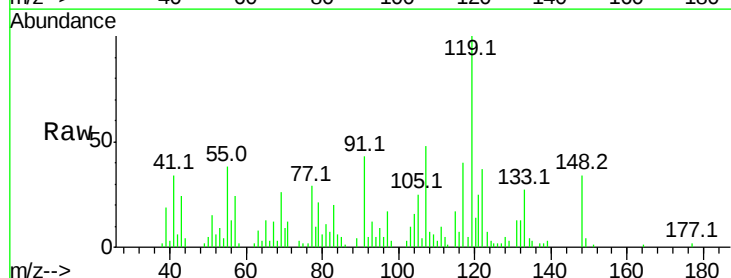
Tgt Ion: 122 Resp: 16894

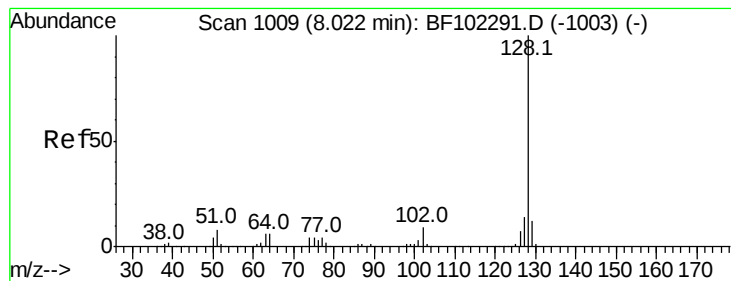
Ion Ratio Lower Upper

122 100

107 129.8 91.2 136.8

121 68.5 47.2 70.8





#31

Naphthalene

Concen: 2.049 ng

RT: 8.02 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

Instrument :

BNA\_F

ClientSampleId :

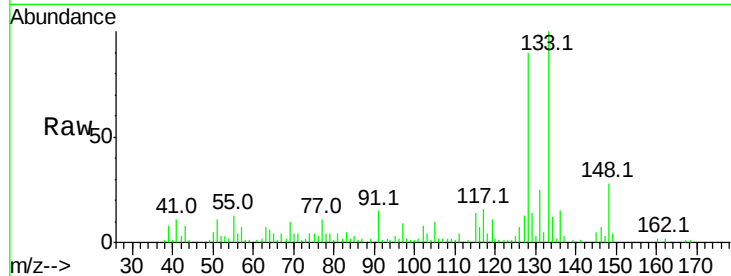
Tot Ion:128 Resp: 51314

Ion Ratio Lower Upper

128 100

129 15.6 8.8 13.2#

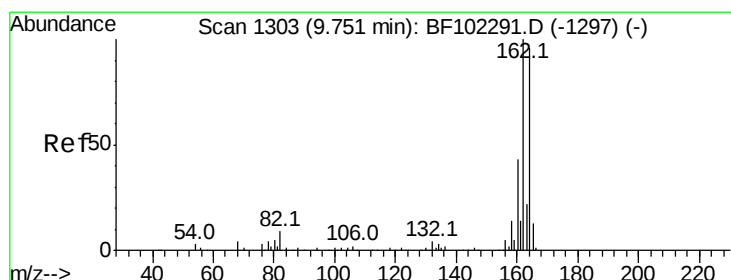
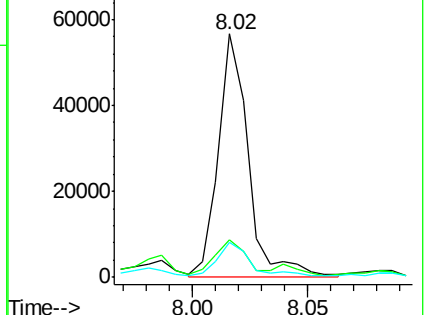
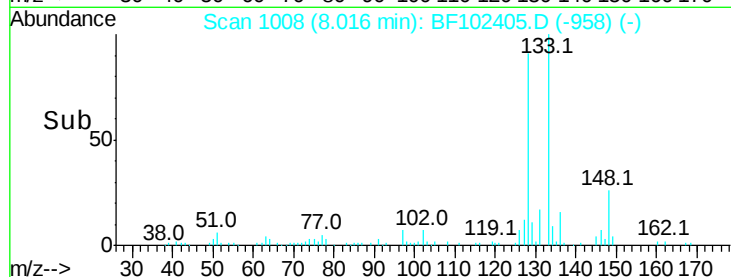
127 14.3 10.9 16.3



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

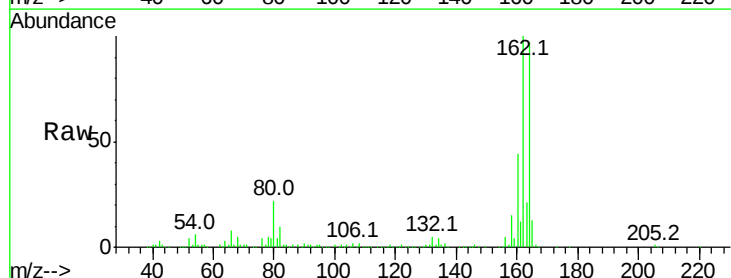
Tgt Ion:164 Resp: 218823

Ion Ratio Lower Upper

164 100

162 103.4 86.1 129.1

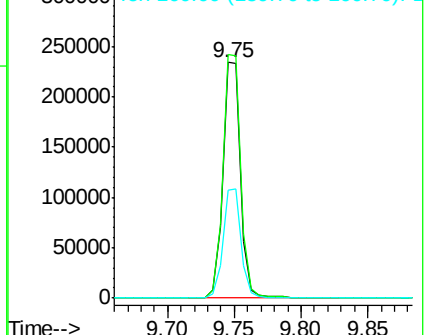
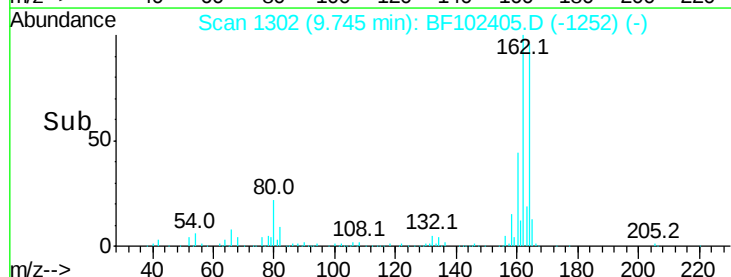
160 45.7 38.3 57.5

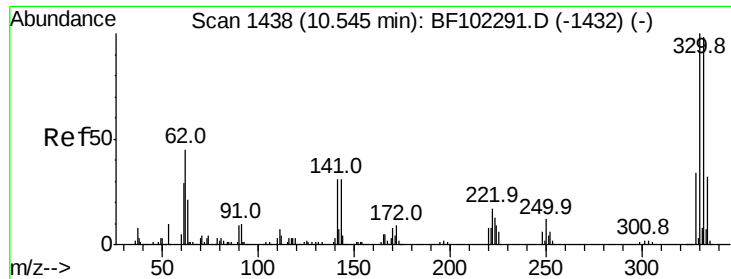


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

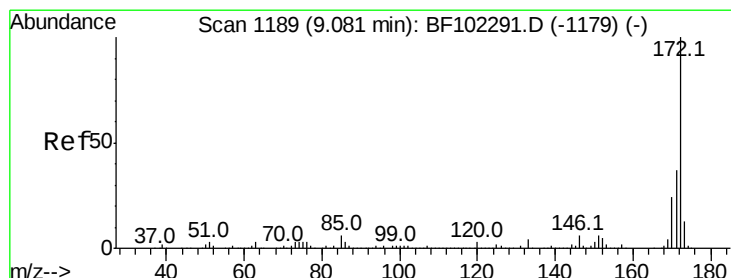
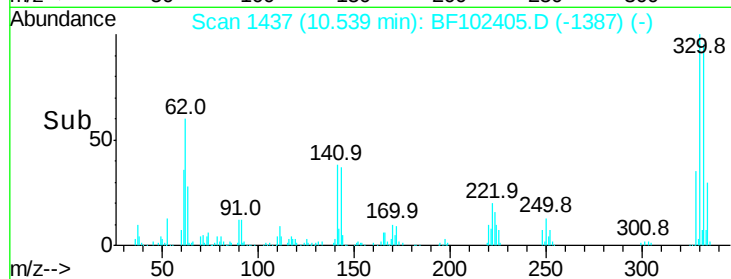
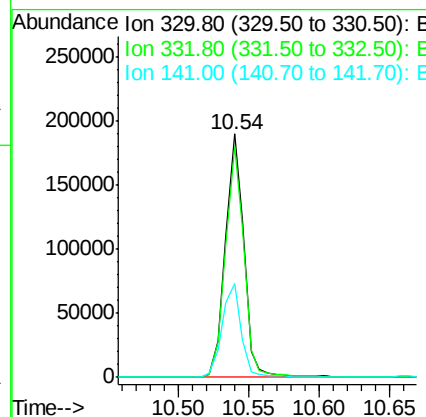
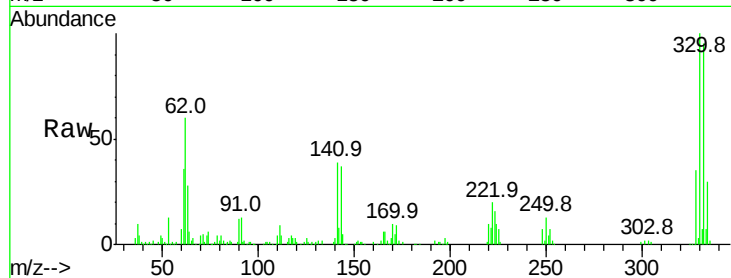




#41  
 2,4,6-Tribromophenol  
 Concen: 80.757 ng  
 RT: 10.54 min Scan# 1437  
 Delta R.T. -0.01 min  
 Lab File: BF102405.D  
 Acq: 24 Jan 2018 22:20

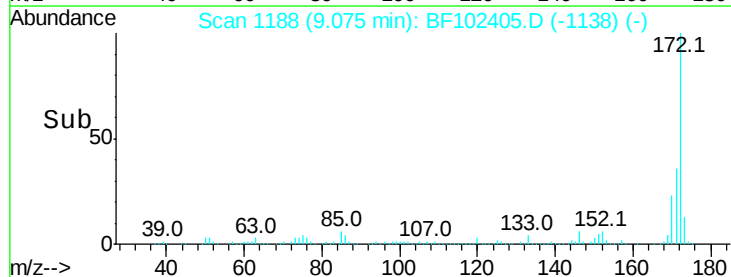
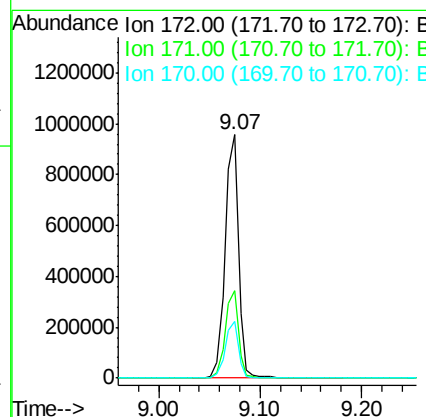
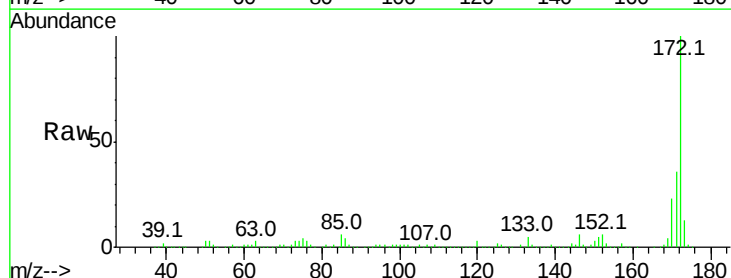
Instrument :  
 BNA\_F  
 ClientSampled :

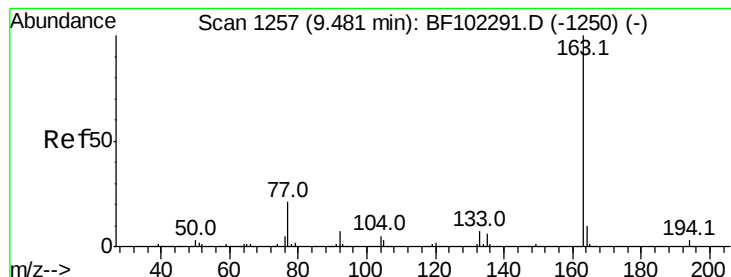
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 77.0  | 115.6 |
| 141     | 39.7  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 59.313 ng  
 RT: 9.07 min Scan# 1188  
 Delta R.T. -0.01 min  
 Lab File: BF102405.D  
 Acq: 24 Jan 2018 22:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.7  | 44.5  |
| 170     | 23.2  | 19.6  | 29.4  |





#49

Dimethylphthalate

Concen: 12.678 ng

RT: 9.47 min Scan# 1255

Delta R.T. -0.01 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

Instrument :

BNA\_F

ClientSampleId :

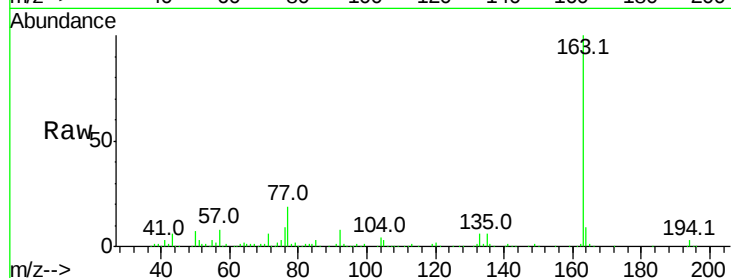
Tot Ion:163 Resp: 229316

Ion Ratio Lower Upper

163 100

194 3.4 2.7 4.1

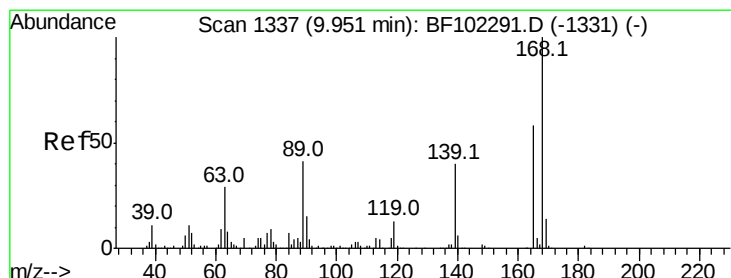
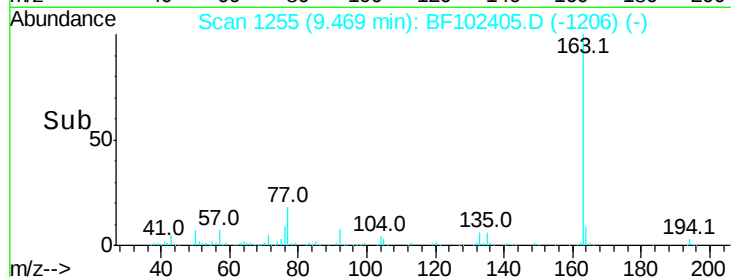
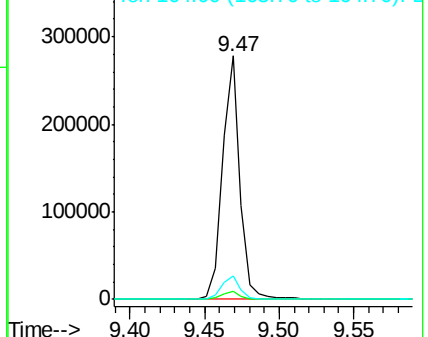
164 9.4 8.2 12.2



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



#56

2,4-Dinitrotoluene

Concen: 5.964 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.21 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

Tgt Ion:165 Resp: 28599

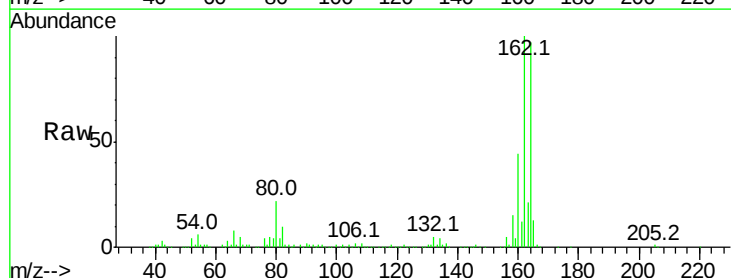
Ion Ratio Lower Upper

165 100

63 1.6 36.4 54.6#

89 1.5 57.8 86.6#

182 0.0 1.6 2.4#

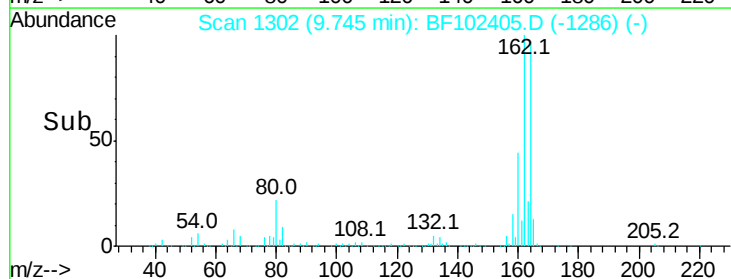
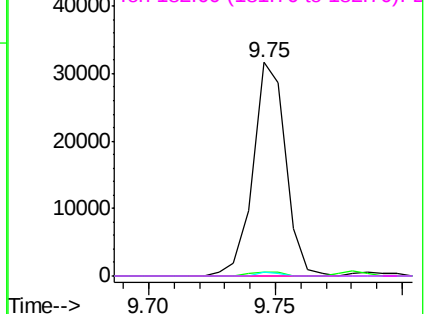


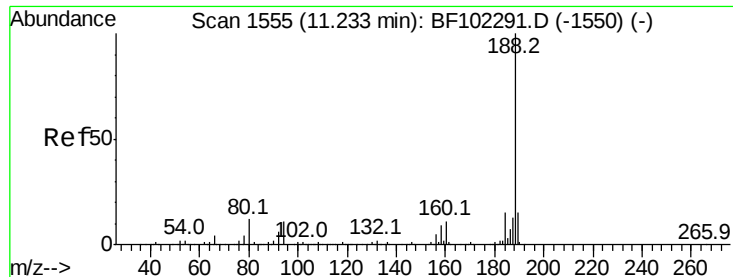
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

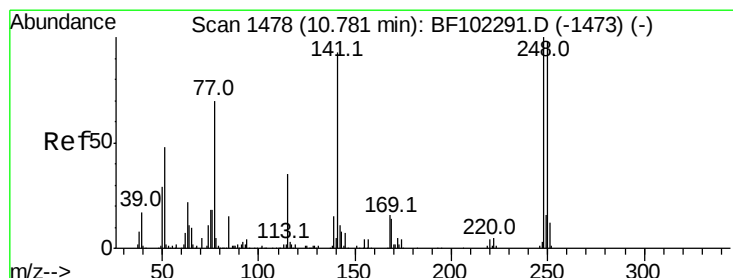
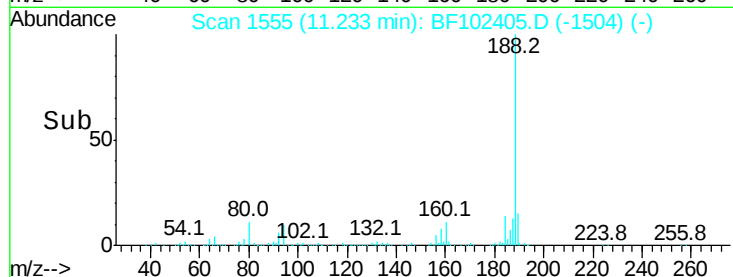
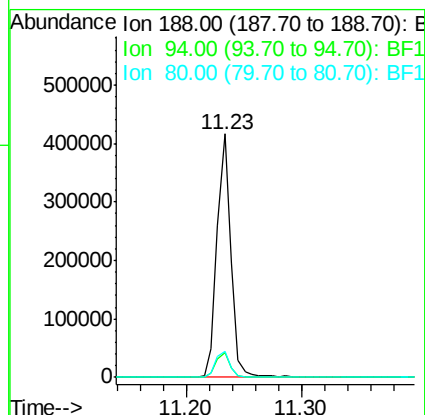
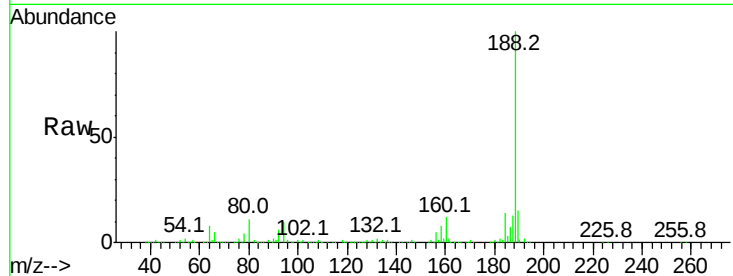




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1555  
Delta R.T. -0.00 min  
Lab File: BF102405.D  
Acq: 24 Jan 2018 22:20

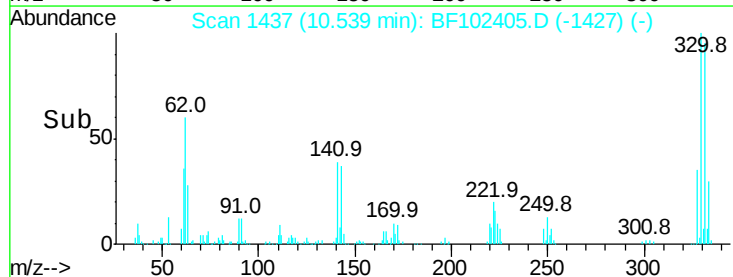
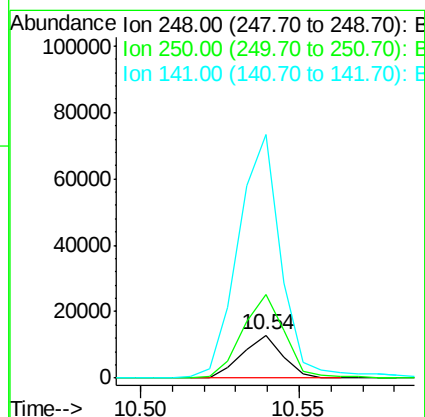
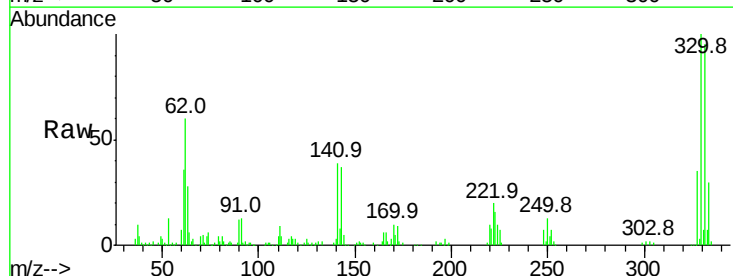
Instrument :  
BNA\_F  
ClientSampled :

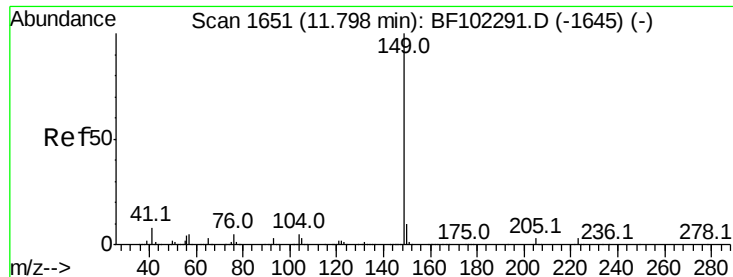
Tot Ion:188 Resp: 346864  
Ion Ratio Lower Upper  
188 100  
94 10.4 8.5 12.7  
80 10.6 9.2 13.8



#66  
4-Bromophenyl-phenylether  
Concen: 3.044 ng  
RT: 10.54 min Scan# 1437  
Delta R.T. -0.24 min  
Lab File: BF102405.D  
Acq: 24 Jan 2018 22:20

Tgt Ion:248 Resp: 11367  
Ion Ratio Lower Upper  
248 100  
250 195.2 76.9 115.3#  
141 565.9 74.4 111.6#





#73

Di-n-butylphthalate

Concen: 4.297 ng

RT: 11.80 min Scan# 1651

Delta R.T. -0.00 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

Instrument :

BNA\_F

ClientSampleId :

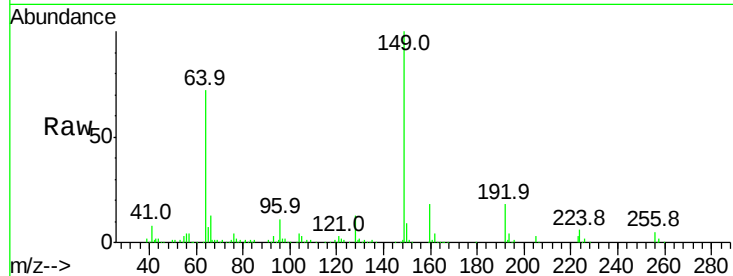
Tot Ion:149 Resp: 108117

Ion Ratio Lower Upper

149 100

150 9.3 7.8 11.6

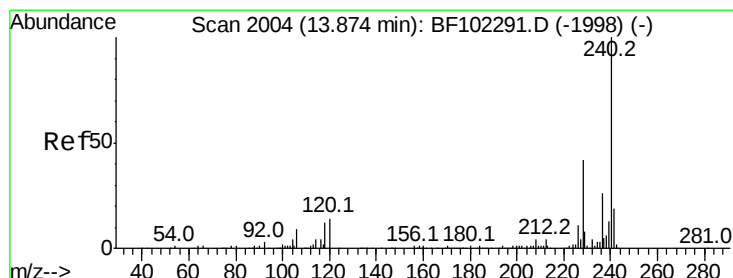
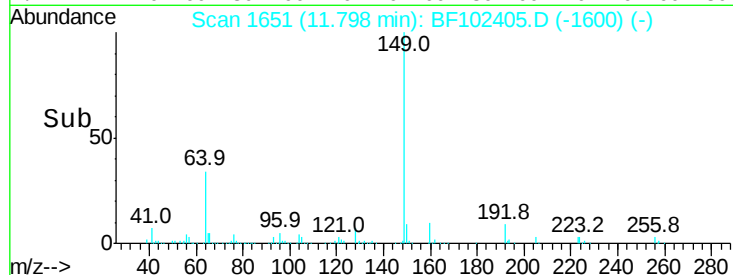
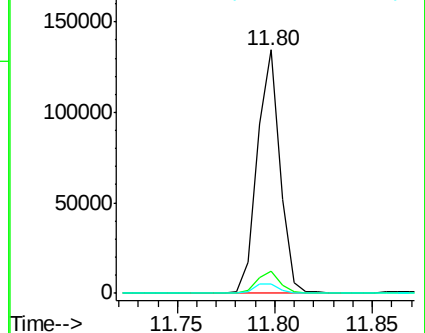
104 3.8 3.8 5.8#



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF102405.D

Acq: 24 Jan 2018 22:20

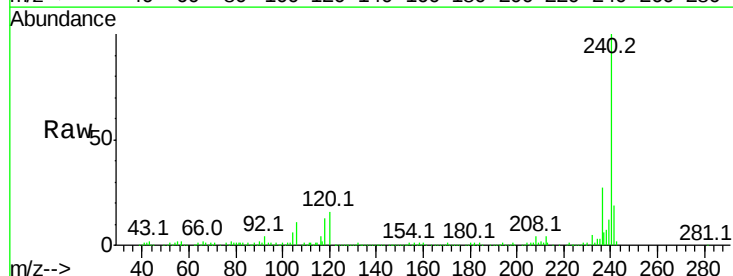
Tgt Ion:240 Resp: 251203

Ion Ratio Lower Upper

240 100

120 15.8 9.5 14.3#

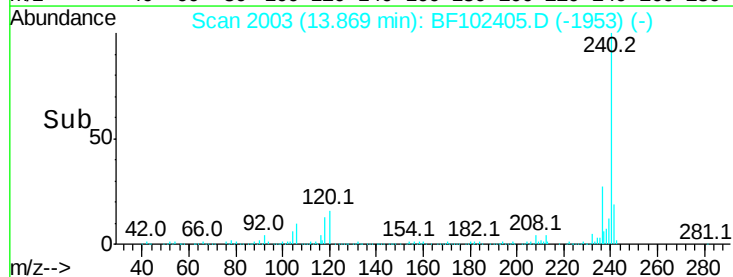
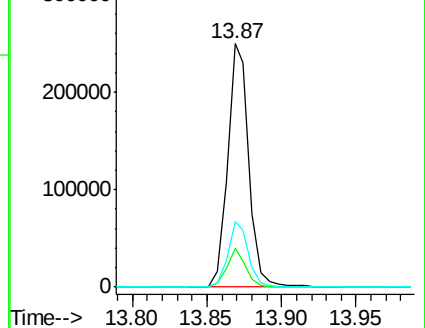
236 27.0 20.7 31.1

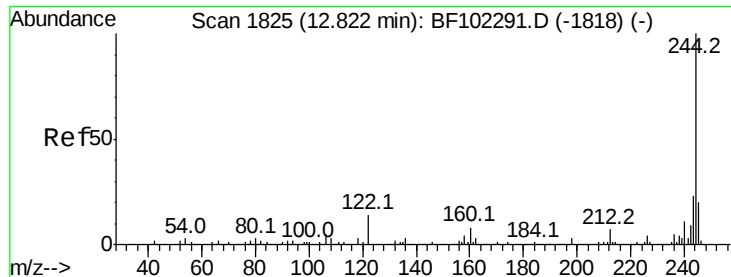


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

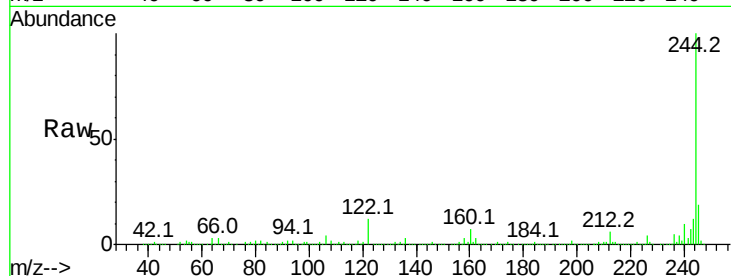




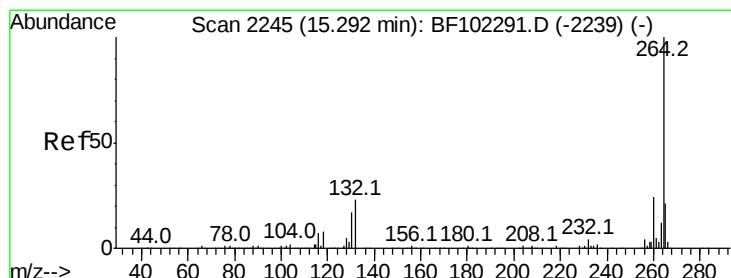
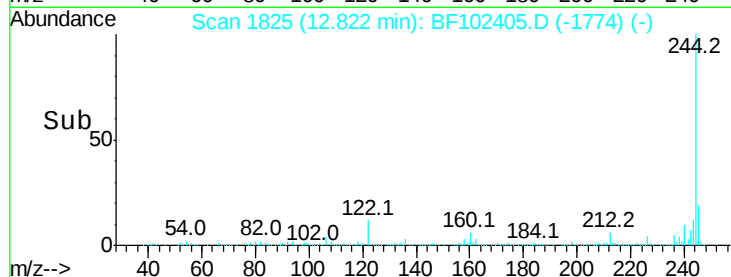
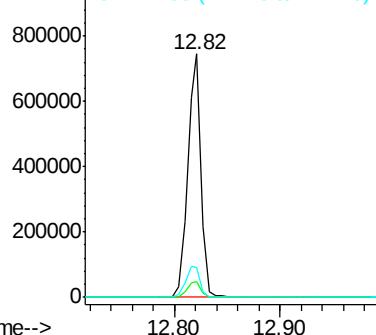
#78  
 Terphenyl-d14  
 Concen: 59.682 ng  
 RT: 12.82 min Scan# 1825  
 Delta R.T. -0.00 min  
 Lab File: BF102405.D  
 Acq: 24 Jan 2018 22:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 665041  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.4 8.0  
 122 12.4 11.0 16.4

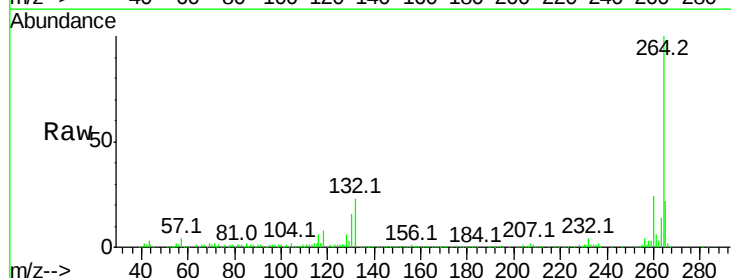


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.30 min Scan# 2246  
 Delta R.T. 0.01 min  
 Lab File: BF102405.D  
 Acq: 24 Jan 2018 22:20

Tgt Ion:264 Resp: 253769  
 Ion Ratio Lower Upper  
 264 100  
 260 23.9 19.2 28.8  
 265 21.9 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

