

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\  
 Data File : BF098886.D  
 Acq On : 28 Sep 2017 2:13  
 Operator : SJ/JU  
 Sample : I5421-01  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-DRUM

Quant Time: Sep 28 07:11:52 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 23 13:50:58 2017  
 Response via : Initial Calibration

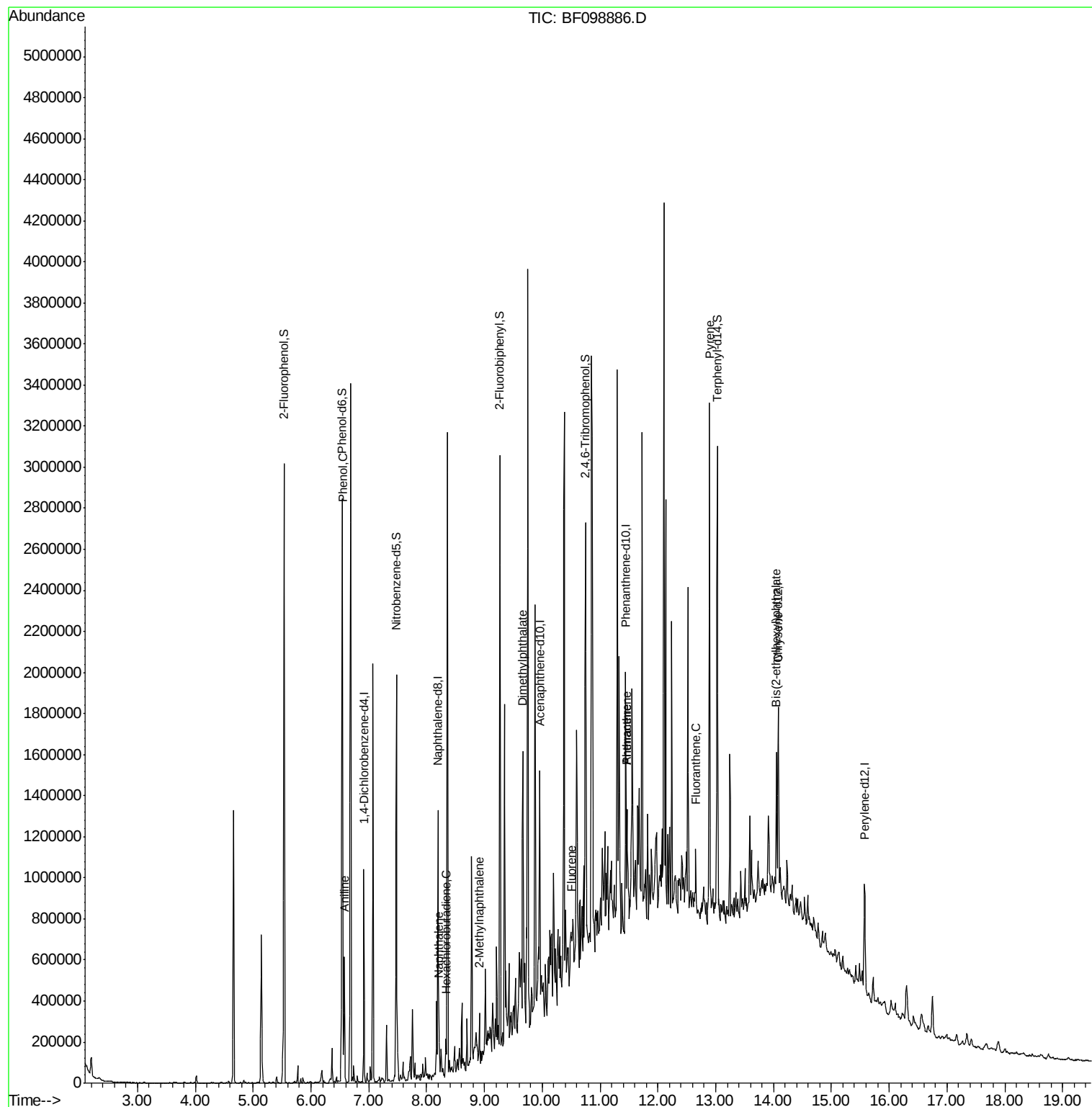
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.92  | 152  | 132151   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.20  | 136  | 541047   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.96  | 164  | 231293   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.44 | 188  | 362801   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.08 | 240  | 285766   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.57 | 264  | 223107   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.53  | 112  | 913999   | 110.10 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.54  | 99   | 1189681  | 116.17 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.47  | 82   | 665794   | 78.92  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.74 | 330  | 182497   | 96.43  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.27  | 172  | 903180   | 65.19  | ng    | -0.01    |
| 78) Terphenyl-d14              | 13.03 | 244  | 714958   | 56.90  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 6) Aniline                     | 6.57  | 93   | 216872   | 15.691 | ng    | 98       |
| 10) Phenol                     | 6.55  | 94   | 28607    | 2.498  | ng    | 94       |
| 31) Naphthalene                | 8.22  | 128  | 69259    | 2.726  | ng    | 100      |
| 34) Hexachlorobutadiene        | 8.33  | 225  | 17326    | 4.507  | ng    | 96       |
| 37) 2-Methylnaphthalene        | 8.91  | 142  | 61195    | 3.704  | ng    | 97       |
| 49) Dimethylphthalate          | 9.66  | 163  | 221940   | 12.714 | ng    | # 98     |
| 57) Fluorene                   | 10.50 | 166  | 32301    | 2.085  | ng    | # 78     |
| 70) Phenanthrene               | 11.47 | 178  | 135766   | 6.991  | ng    | 98       |
| 71) Anthracene                 | 11.47 | 178  | 135766   | 6.833  | ng    | 98       |
| 74) Fluoranthene               | 12.66 | 202  | 80767    | 4.107  | ng    | 89       |
| 77) Pyrene                     | 12.89 | 202  | 89623    | 4.113  | ng    | # 94     |
| 83) Bis(2-ethylhexyl)phthalate | 14.05 | 149  | 184095   | 13.055 | ng    | 99       |

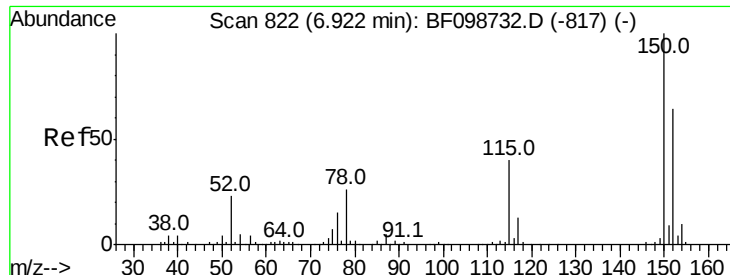
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\  
Data File : BF098886.D  
Acq On : 28 Sep 2017 2:13  
Operator : SJ/JU  
Sample : I5421-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-DRUM

Quant Time: Sep 28 07:11:52 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 23 13:50:58 2017  
Response via : Initial Calibration



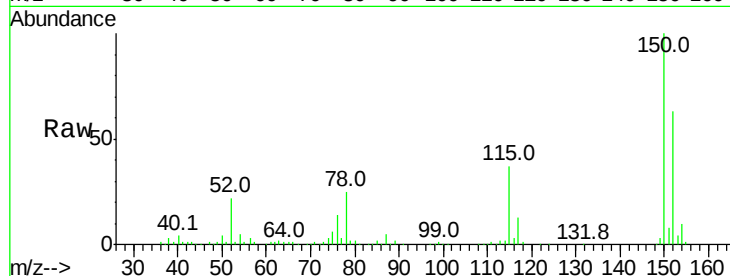


#1

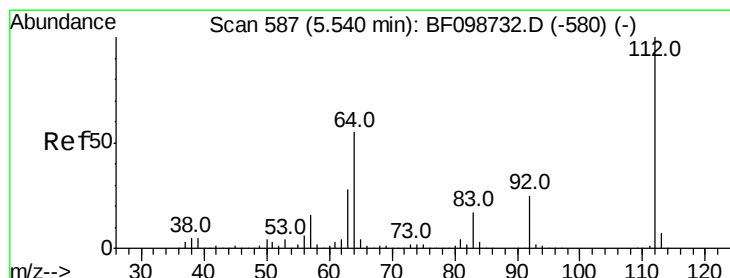
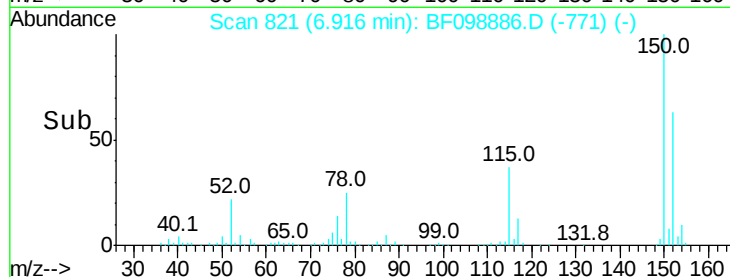
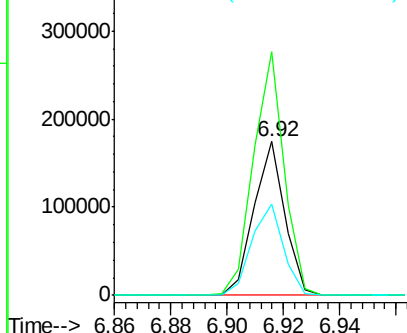
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.92 min Scan# 821  
 Delta R.T. -0.01 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-DRUM

Tot Ion:152 Resp: 132151  
 Ion Ratio Lower Upper  
 152 100  
 150 158.3 124.6 186.8  
 115 59.3 50.1 75.1



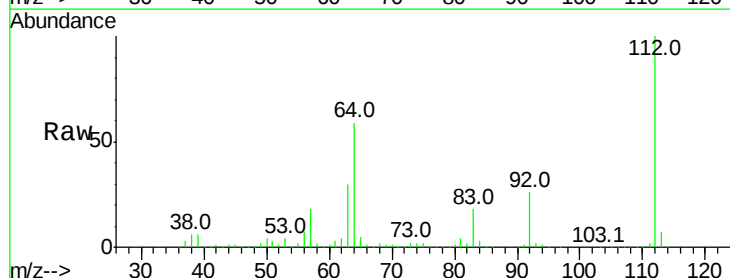
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



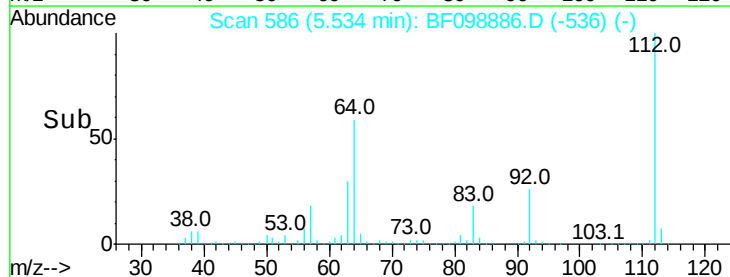
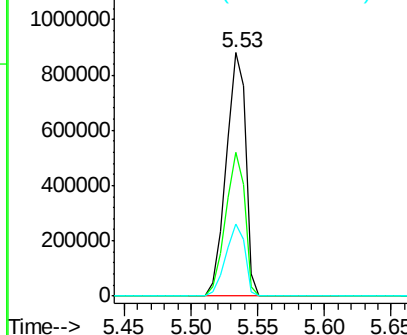
#5

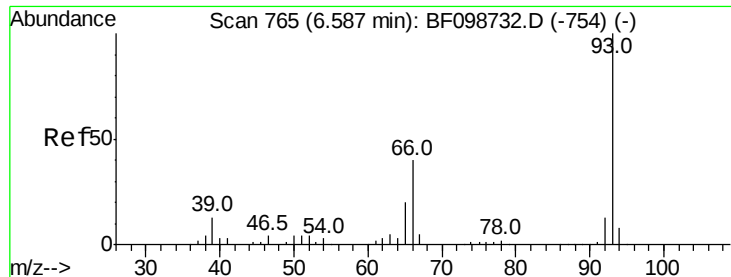
2-Fluorophenol  
 Concen: 110.101 ng  
 RT: 5.53 min Scan# 586  
 Delta R.T. -0.01 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

Tgt Ion:112 Resp: 913999  
 Ion Ratio Lower Upper  
 112 100  
 64 58.8 47.9 71.9  
 63 29.6 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF0  
 Ion 63.00 (62.70 to 63.70): BF0





#6

Aniline

Concen: 15.691 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF098886.D

Acq: 28 Sep 2017 2:13

Instrument :

BNA\_F

ClientSampleId :

JC-DRUM

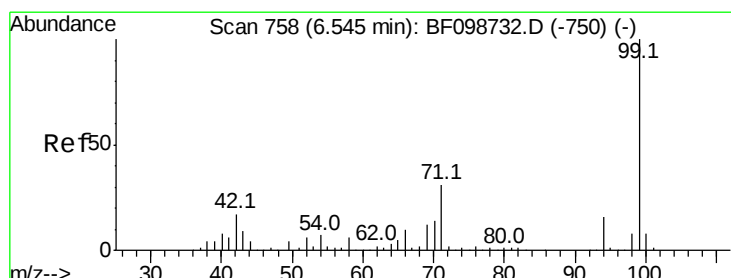
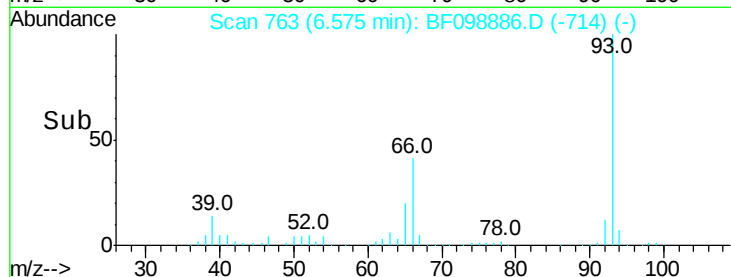
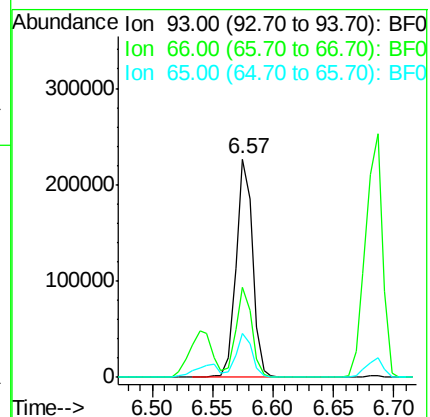
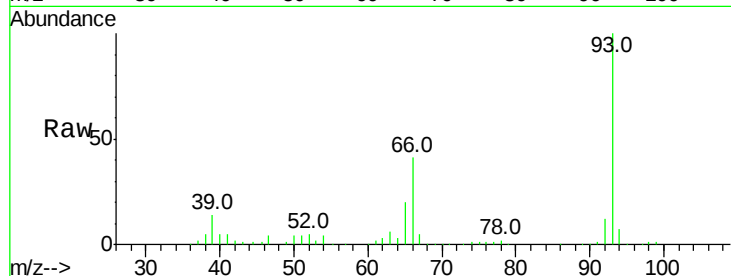
Tot Ion: 93 Resp: 216872

Ion Ratio Lower Upper

93 100

66 41.4 32.2 48.2

65 20.0 16.4 24.6



#7

Phenol-d6

Concen: 116.171 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF098886.D

Acq: 28 Sep 2017 2:13

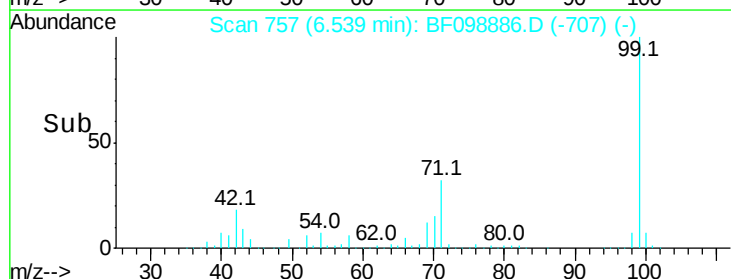
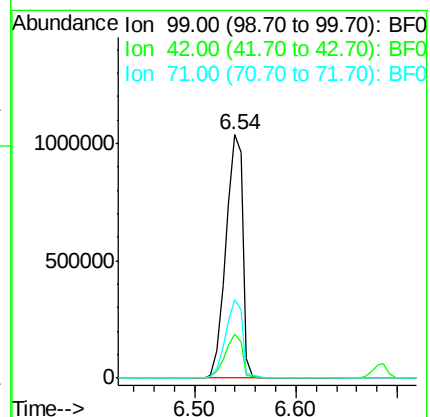
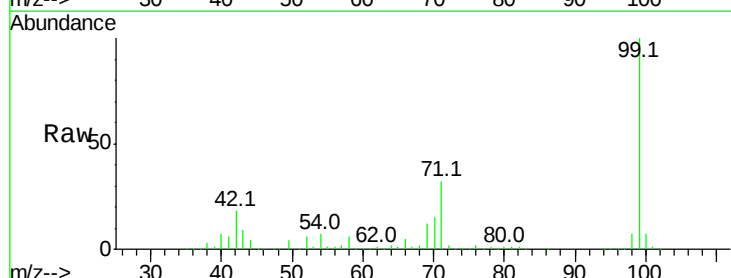
Tgt Ion: 99 Resp: 1189681

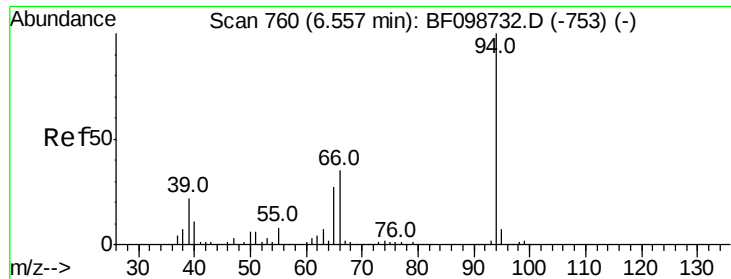
Ion Ratio Lower Upper

99 100

42 17.9 14.5 21.7

71 32.0 25.4 38.0

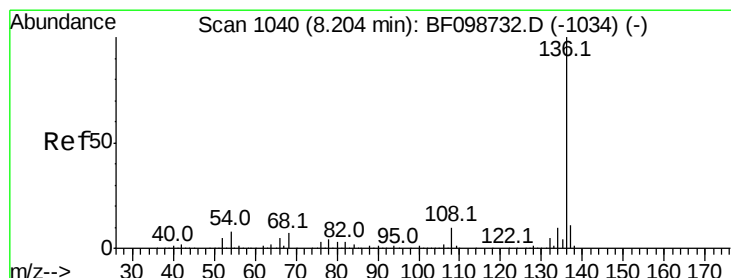
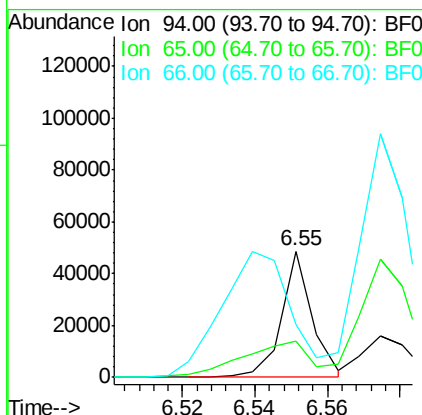
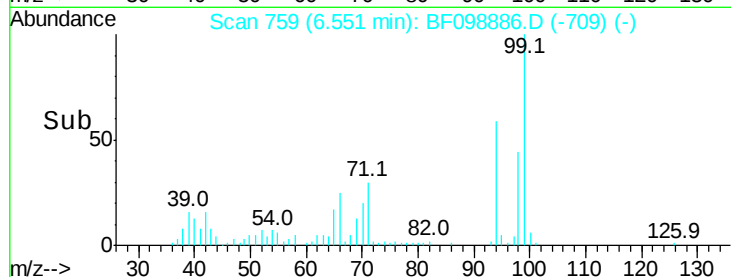
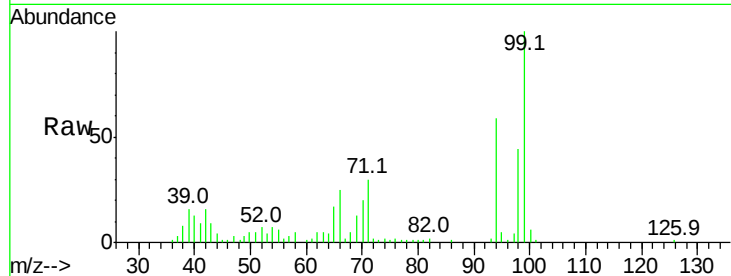




#10  
Phenol  
Concen: 2.498 ng  
RT: 6.55 min Scan# 759  
Delta R.T. -0.01 min  
Lab File: BF098886.D  
Acq: 28 Sep 2017 2:13

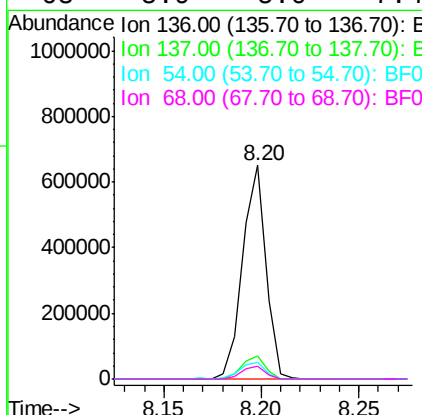
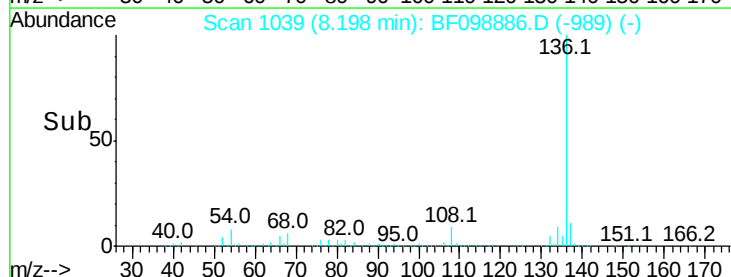
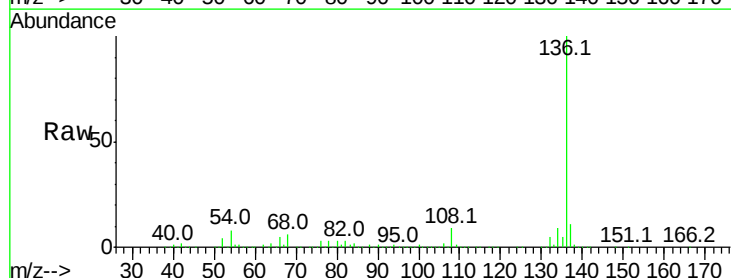
Instrument :  
BNA\_F  
ClientSampleId :  
JC-DRUM

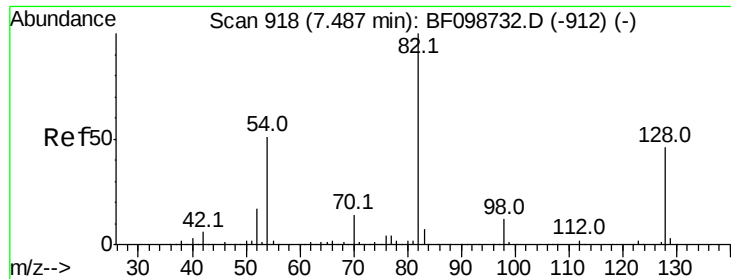
Tot Ion: 94 Resp: 28607  
Ion Ratio Lower Upper  
94 100  
65 28.5 7.9 47.9  
66 42.2 16.2 56.2



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.20 min Scan# 1039  
Delta R.T. -0.01 min  
Lab File: BF098886.D  
Acq: 28 Sep 2017 2:13

Tgt Ion: 136 Resp: 541047  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.9 13.3  
54 7.6 6.6 9.8  
68 5.9 5.0 7.4

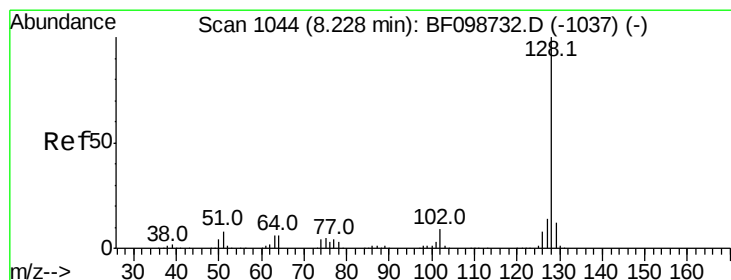
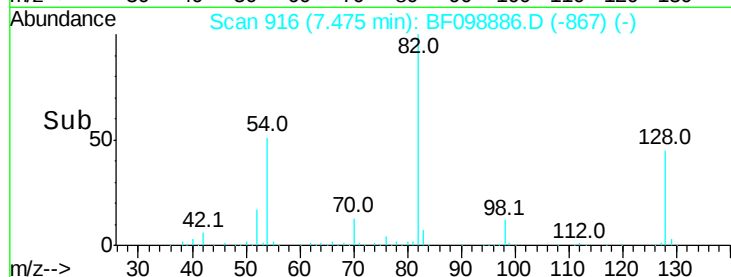
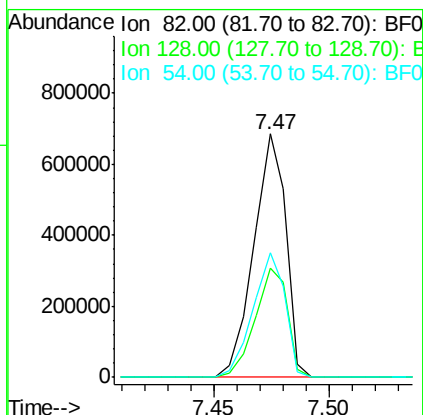
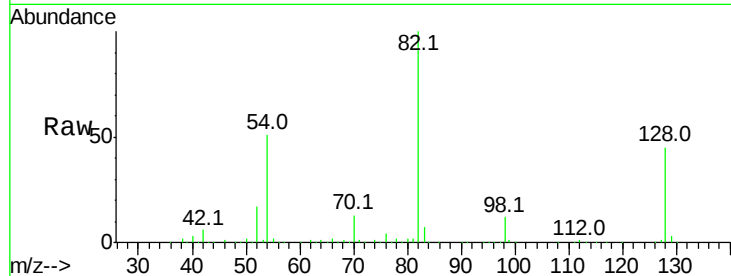




#23  
 Nitrobenzene-d5  
 Concen: 78.916 ng  
 RT: 7.47 min Scan# 916  
 Delta R.T. -0.01 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

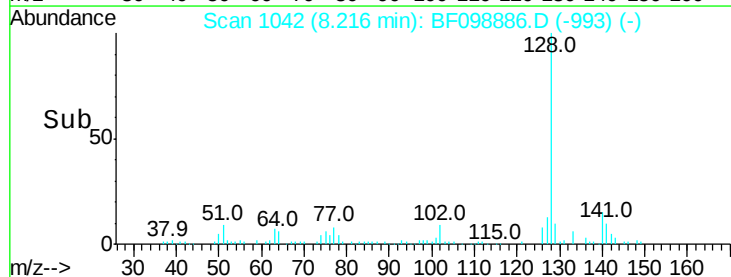
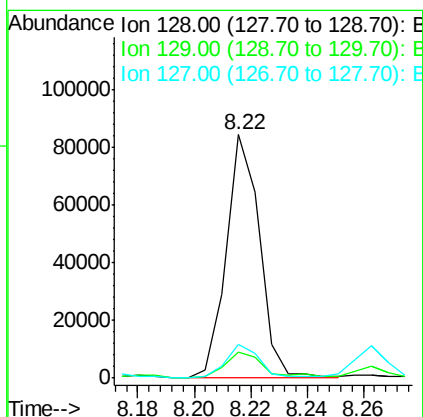
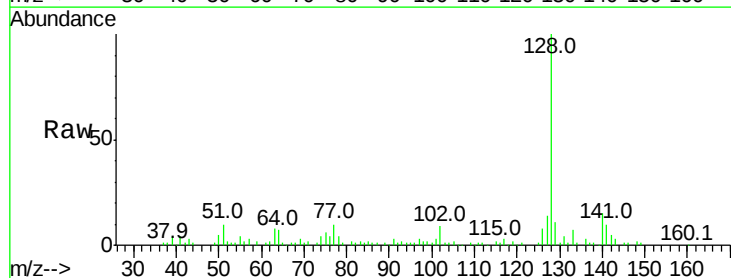
Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-DRUM

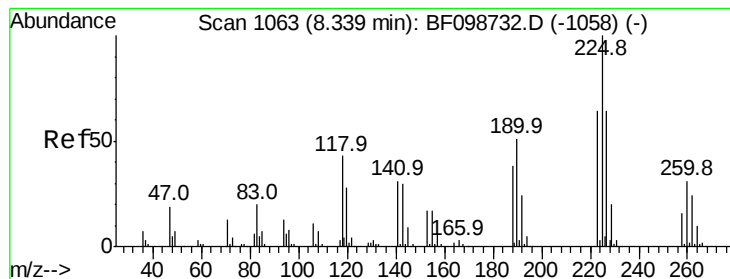
Tot Ion: 82 Resp: 665794  
 Ion Ratio Lower Upper  
 82 100  
 128 44.6 36.1 54.1  
 54 51.1 41.4 62.2



#31  
 Naphthalene  
 Concen: 2.726 ng  
 RT: 8.22 min Scan# 1042  
 Delta R.T. -0.01 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

Tgt Ion: 128 Resp: 69259  
 Ion Ratio Lower Upper  
 128 100  
 129 10.9 8.8 13.2  
 127 13.9 10.9 16.3





#34

Hexachlorobutadiene

Concen: 4.507 ng

RT: 8.33 min Scan# 1062

Delta R.T. -0.01 min

Lab File: BF098886.D

Acq: 28 Sep 2017 2:13

Instrument :

BNA\_F

ClientSampleId :

JC-DRUM

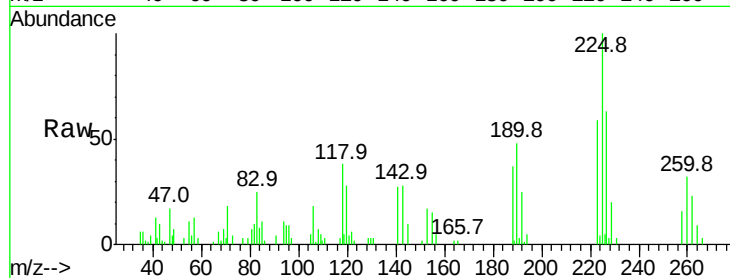
Tot Ion:225 Resp: 17326

Ion Ratio Lower Upper

225 100

223 59.1 50.6 76.0

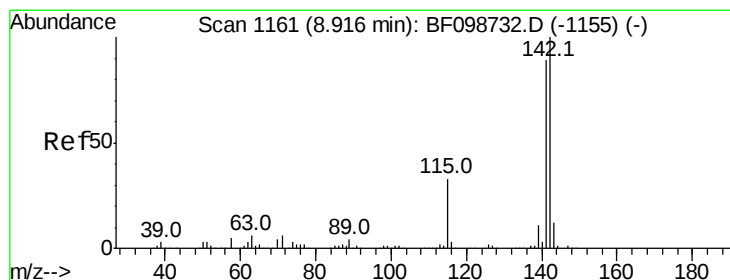
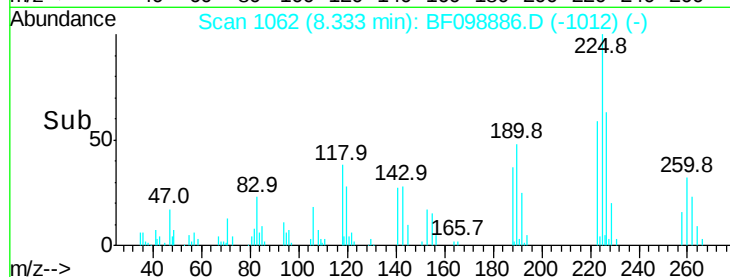
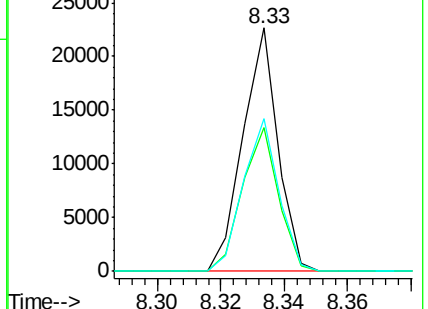
227 62.8 51.9 77.9



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#37

2-Methylnaphthalene

Concen: 3.704 ng

RT: 8.91 min Scan# 1160

Delta R.T. -0.01 min

Lab File: BF098886.D

Acq: 28 Sep 2017 2:13

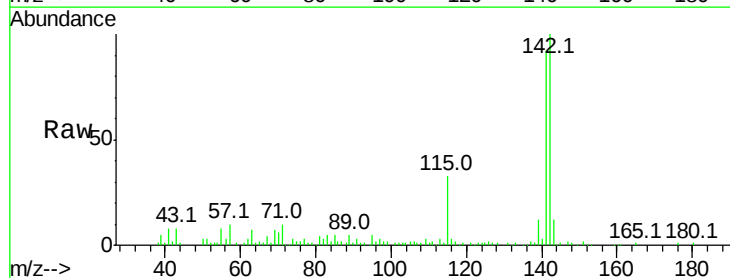
Tgt Ion:142 Resp: 61195

Ion Ratio Lower Upper

142 100

141 91.5 70.8 106.2

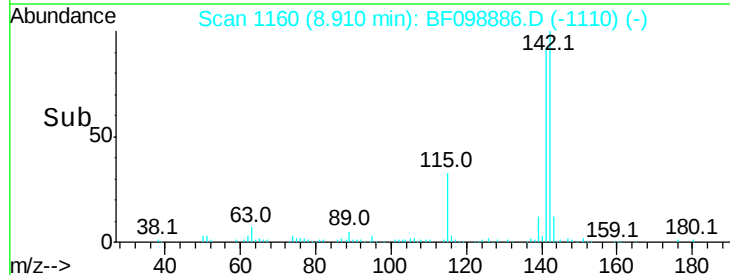
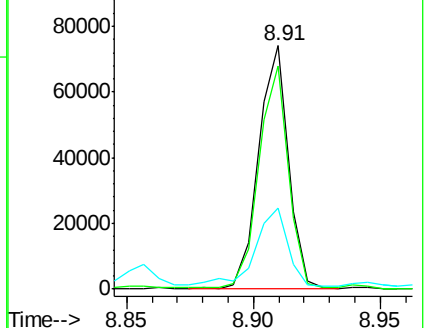
115 33.3 26.1 39.1

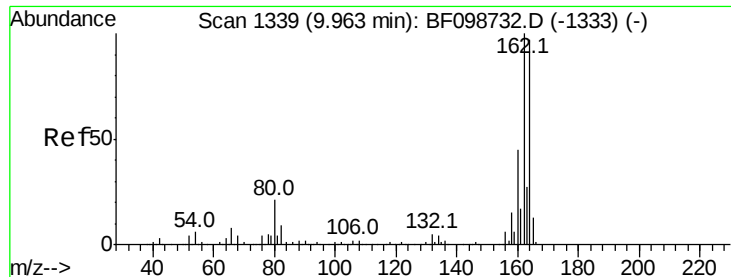


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

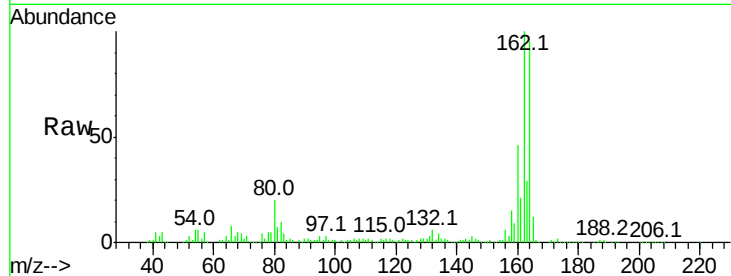




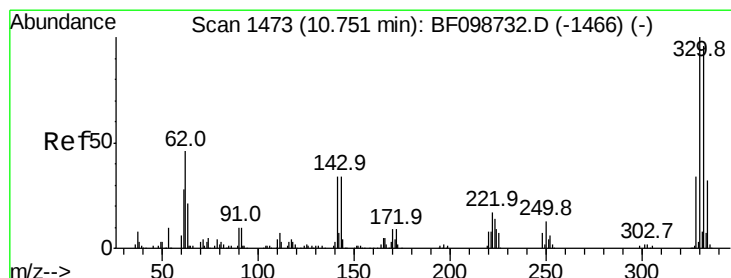
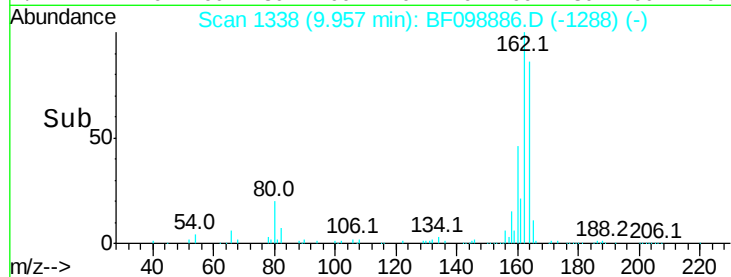
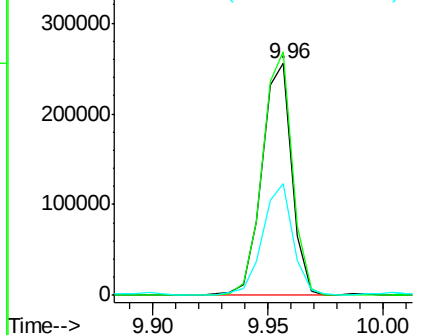
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.96 min Scan# 1338  
 Delta R.T. -0.01 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-DRUM

Tot Ion:164 Resp: 231293  
 Ion Ratio Lower Upper  
 164 100  
 162 104.9 86.1 129.1  
 160 48.1 38.3 57.5

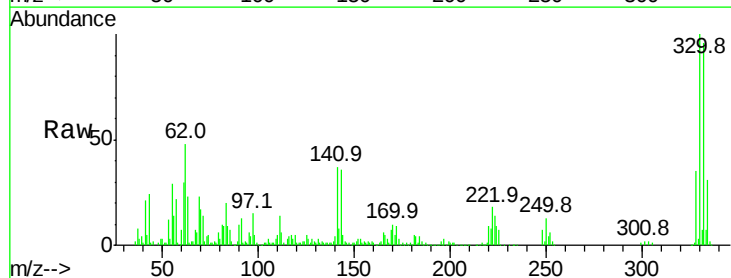


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

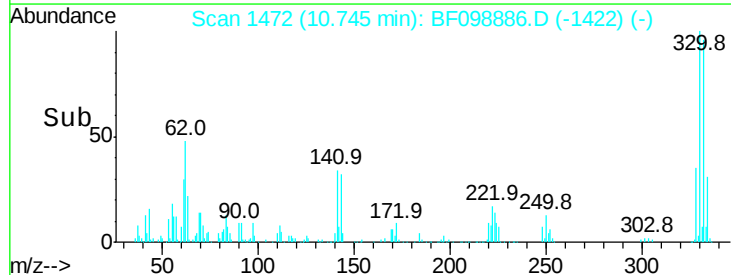
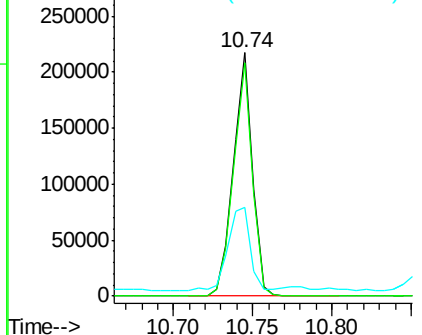


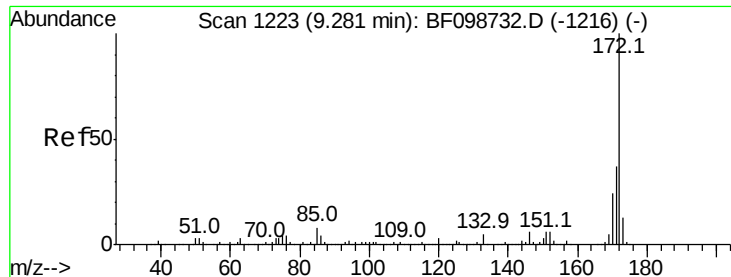
#41  
 2,4,6-Tribromophenol  
 Concen: 96.426 ng  
 RT: 10.74 min Scan# 1472  
 Delta R.T. -0.01 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

Tgt Ion:330 Resp: 182497  
 Ion Ratio Lower Upper  
 330 100  
 332 95.5 77.0 115.6  
 141 40.4 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

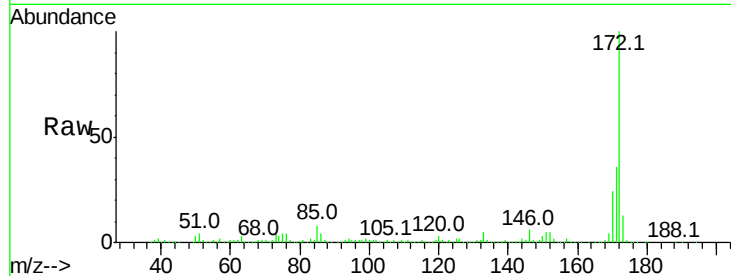




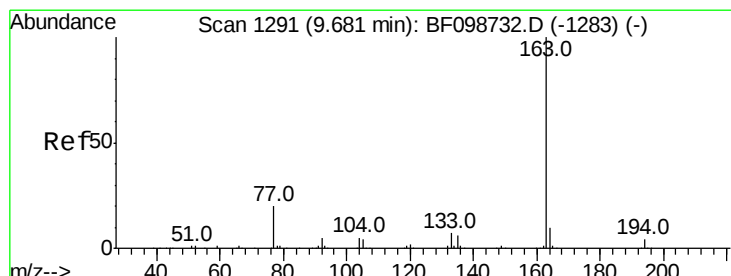
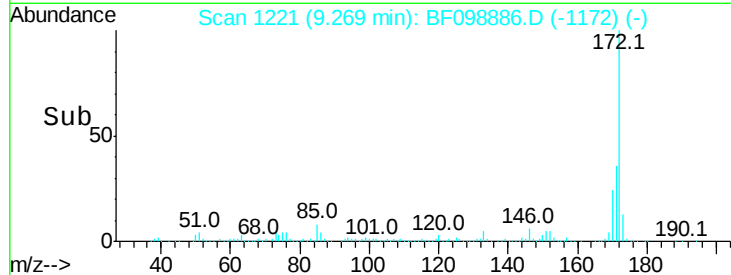
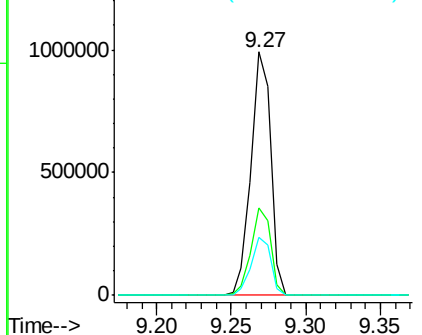
#44  
 2-Fluorobiphenyl  
 Concen: 65.189 ng  
 RT: 9.27 min Scan# 1221  
 Delta R.T. -0.01 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-DRUM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.7  | 44.5  |
| 170     | 23.8  | 19.6  | 29.4  |

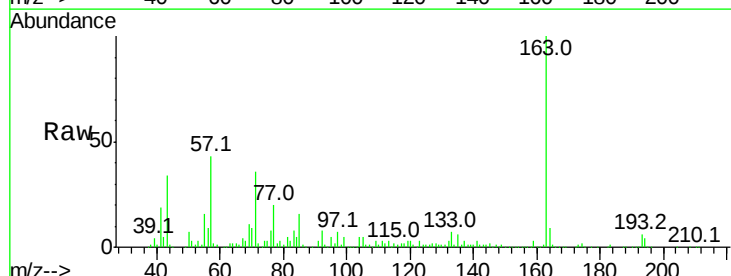


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

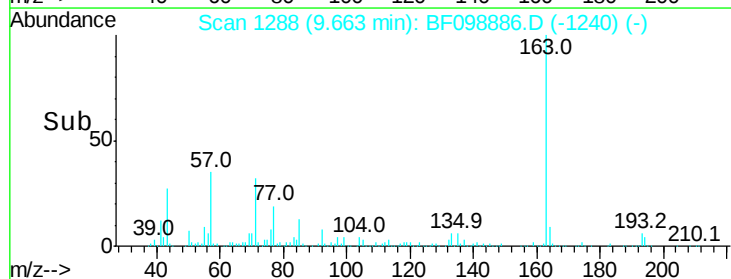
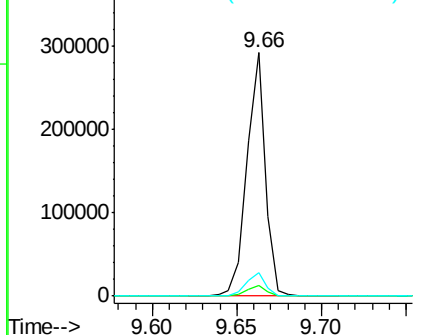


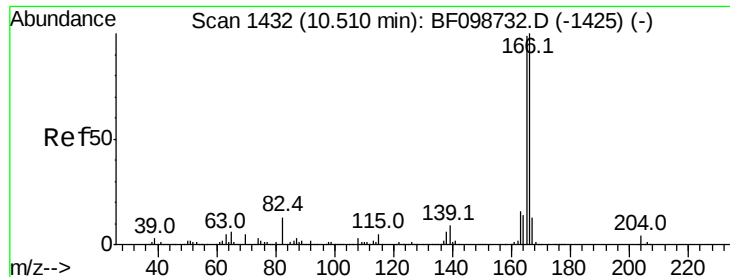
#49  
 Dimethylphthalate  
 Concen: 12.714 ng  
 RT: 9.66 min Scan# 1288  
 Delta R.T. -0.02 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 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

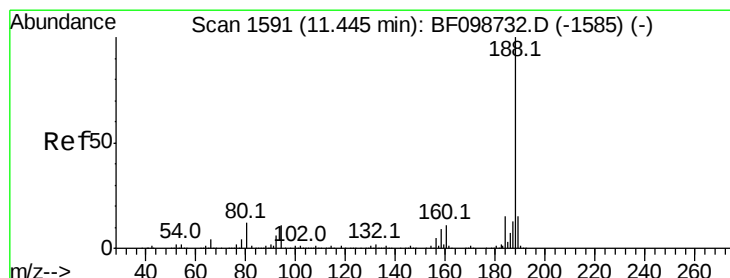
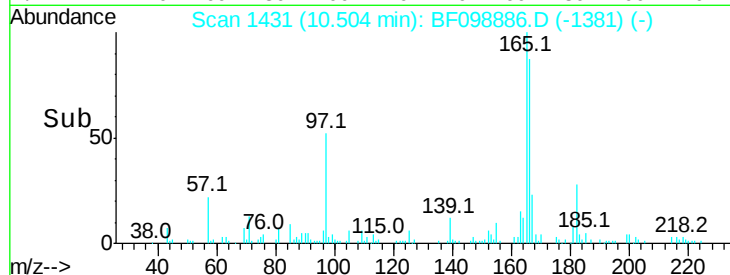
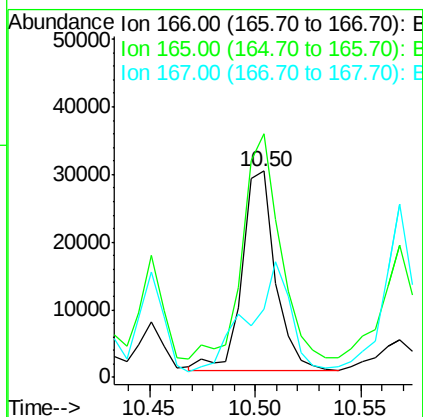
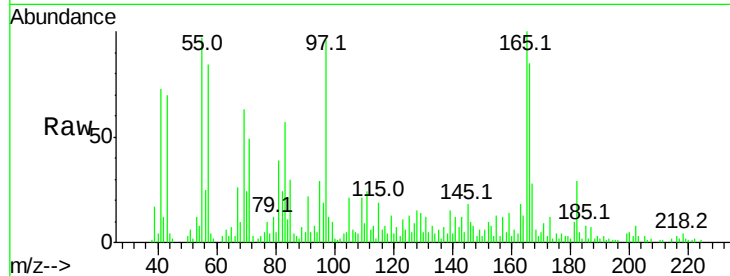




#57  
**Fluorene**  
 Concen: 2.085 ng  
 RT: 10.50 min Scan# 1431  
 Delta R.T. -0.01 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

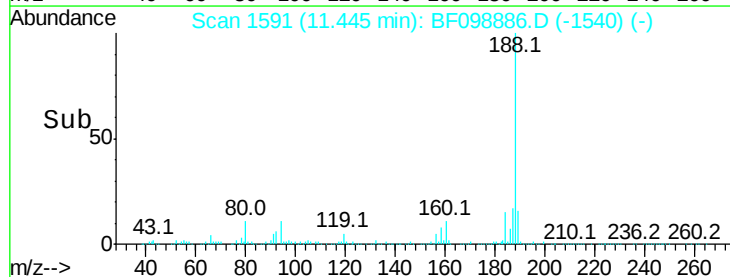
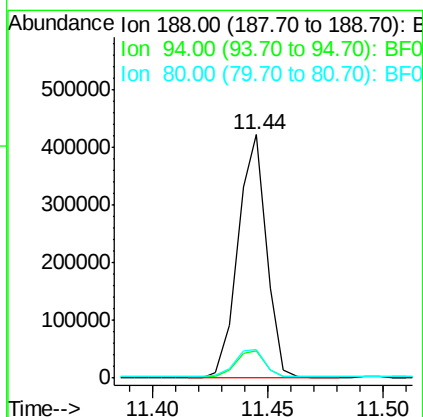
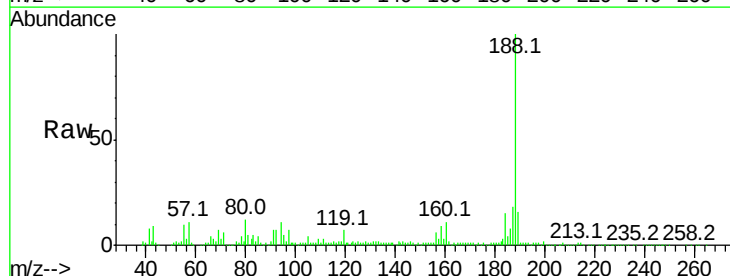
Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-DRUM

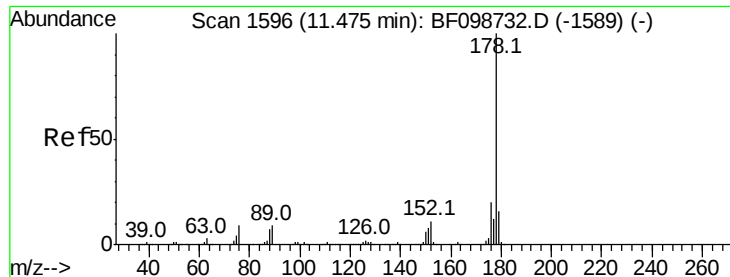
Tot Ion:166 Resp: 32301  
 Ion Ratio Lower Upper  
 166 100  
 165 118.2 79.8 119.8  
 167 33.1 10.6 16.0#



#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 11.44 min Scan# 1591  
 Delta R.T. -0.00 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

Tgt Ion:188 Resp: 362801  
 Ion Ratio Lower Upper  
 188 100  
 94 11.2 8.5 12.7  
 80 11.5 9.2 13.8





#70

Phenanthrene

Concen: 6.991 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF098886.D

Acq: 28 Sep 2017 2:13

Instrument :

BNA\_F

ClientSampleId :

JC-DRUM

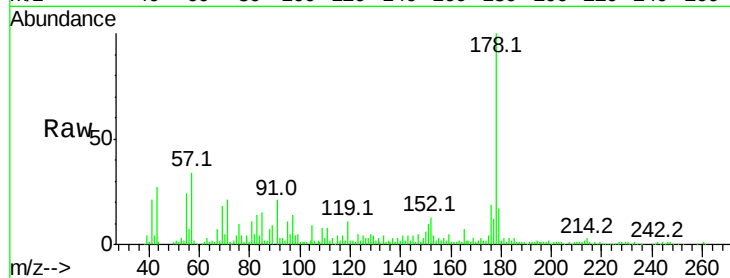
Tot Ion:178 Resp: 135766

Ion Ratio Lower Upper

178 100

176 18.8 15.8 23.8

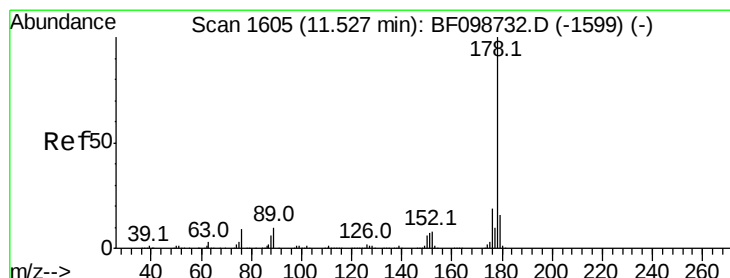
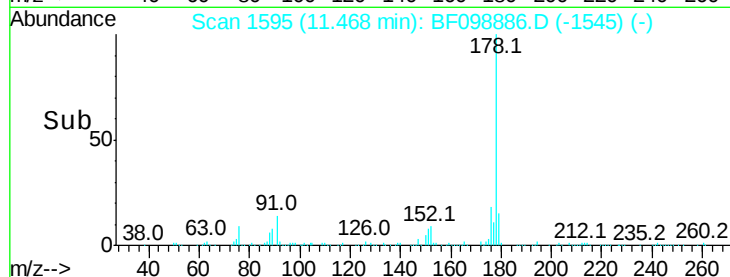
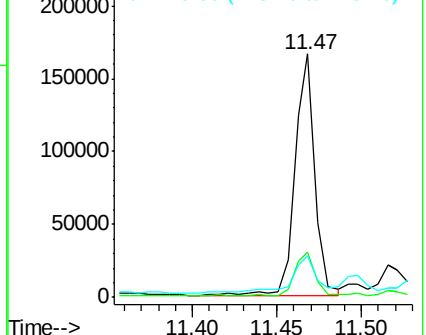
179 17.2 13.0 19.6



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: 6.833 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.06 min

Lab File: BF098886.D

Acq: 28 Sep 2017 2:13

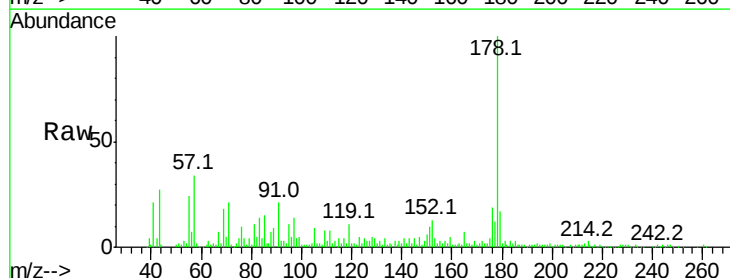
Tgt Ion:178 Resp: 135766

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

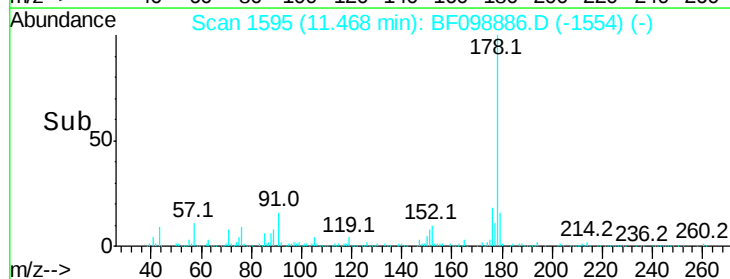
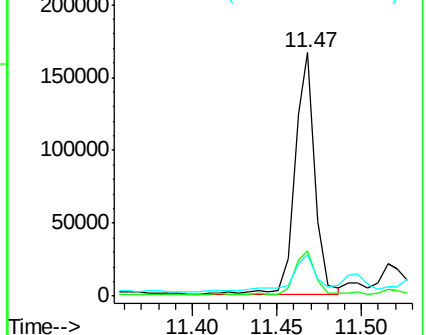
179 17.2 12.6 19.0

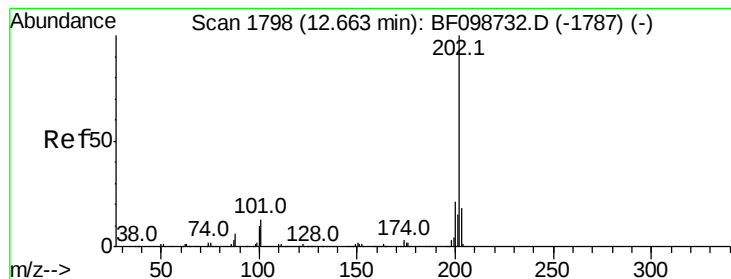


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 4.107 ng

RT: 12.66 min Scan# 1797

Delta R.T. -0.01 min

Lab File: BF098886.D

Acq: 28 Sep 2017 2:13

Instrument :

BNA\_F

ClientSampleId :

JC-DRUM

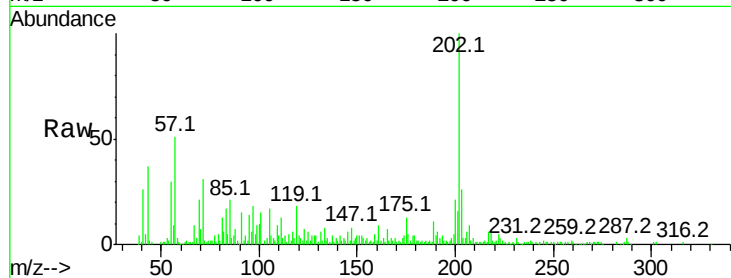
Tot Ion:202 Resp: 80767

Ion Ratio Lower Upper

202 100

101 14.8 0.0 34.1

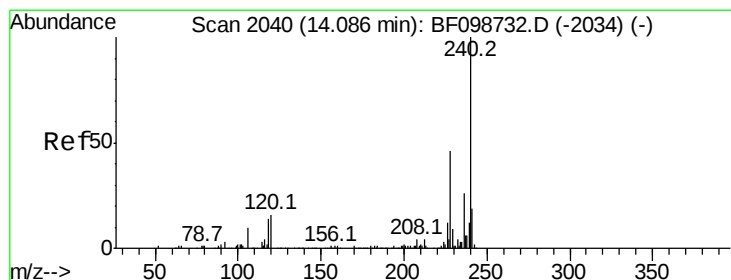
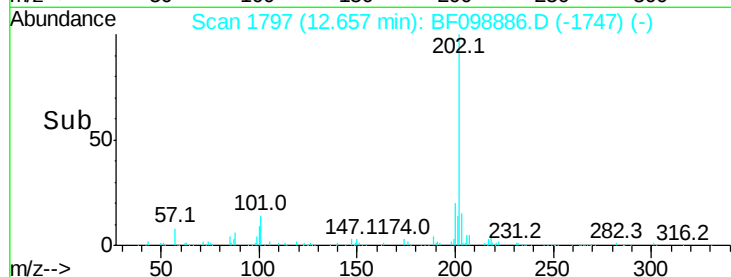
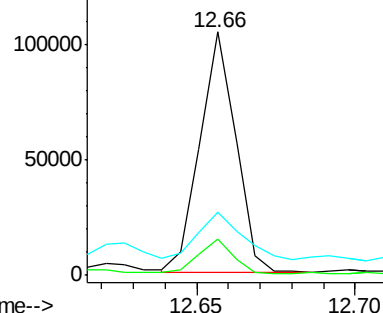
203 26.1 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BF098886.D

Acq: 28 Sep 2017 2:13

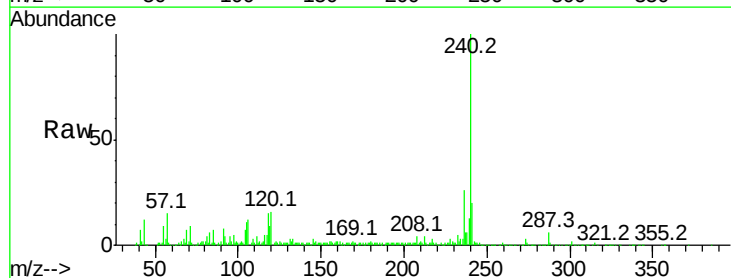
Tgt Ion:240 Resp: 285766

Ion Ratio Lower Upper

240 100

120 16.4 9.5 14.3#

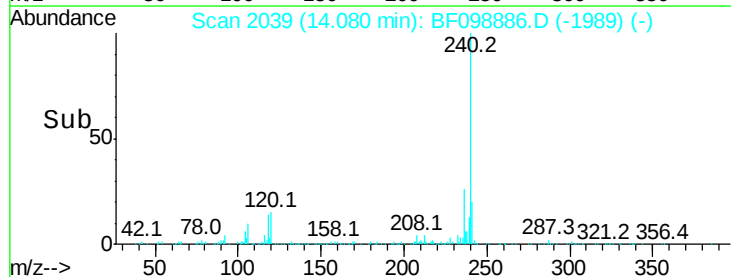
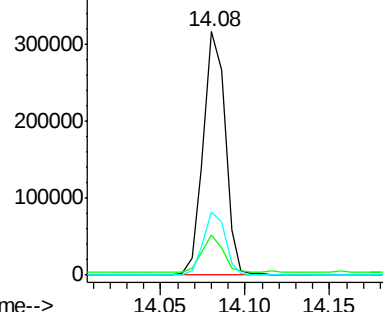
236 25.7 20.7 31.1

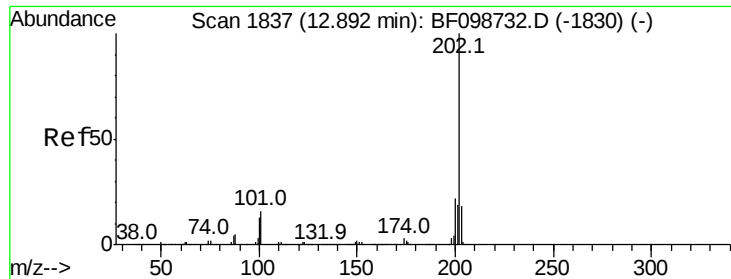


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 4.113 ng

RT: 12.89 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BF098886.D

Acq: 28 Sep 2017 2:13

Instrument :

BNA\_F

ClientSampleId :

JC-DRUM

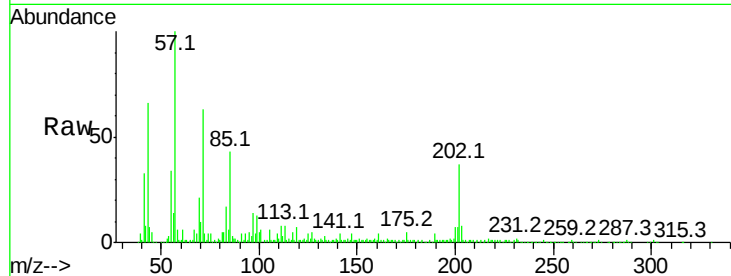
Tot Ion:202 Resp: 89623

Ion Ratio Lower Upper

202 100

200 20.5 17.4 26.2

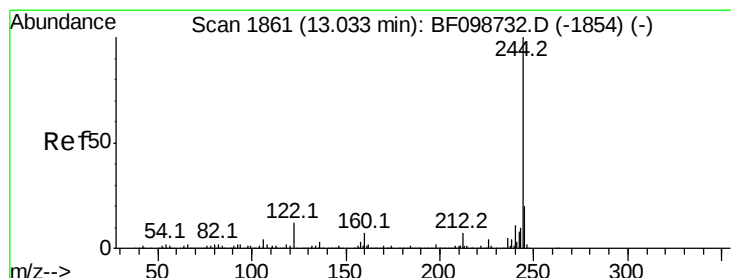
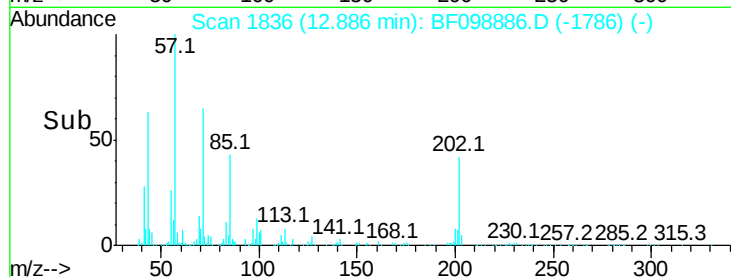
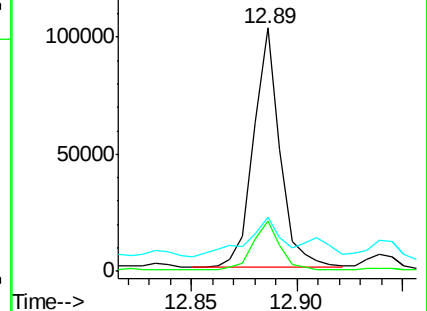
203 22.1 14.3 21.5#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 56.898 ng

RT: 13.03 min Scan# 1860

Delta R.T. -0.01 min

Lab File: BF098886.D

Acq: 28 Sep 2017 2:13

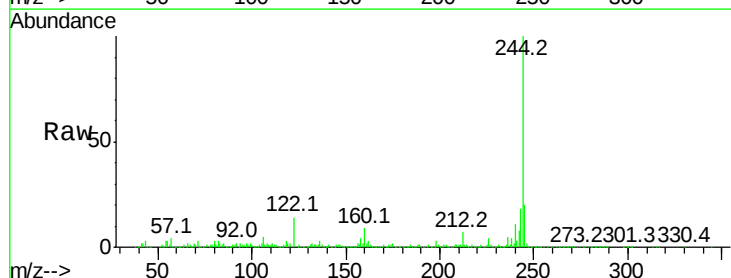
Tgt Ion:244 Resp: 714958

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

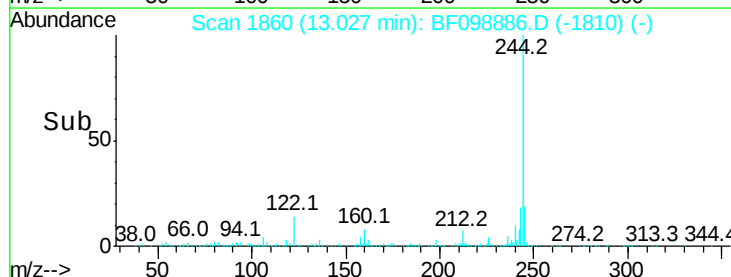
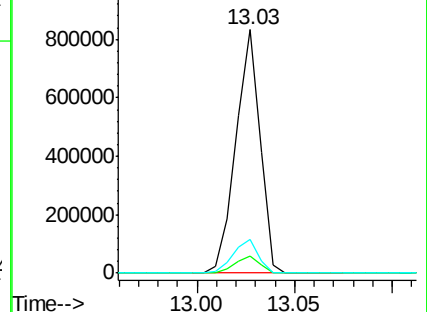
122 14.0 11.0 16.4

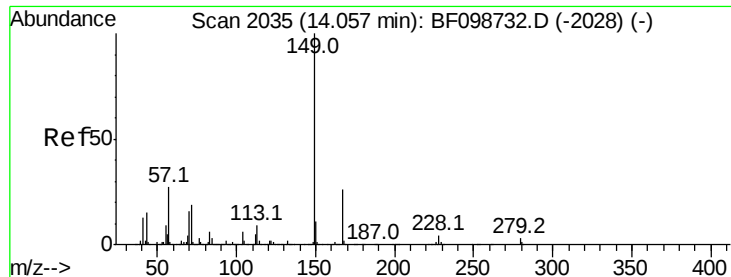


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

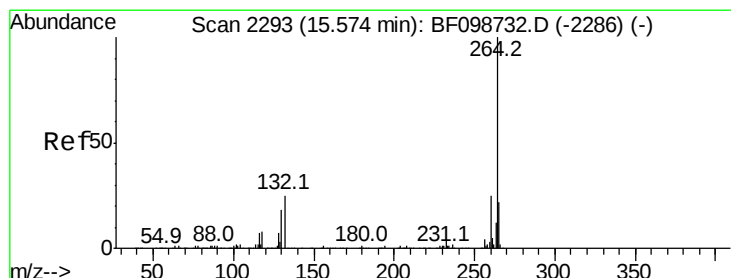
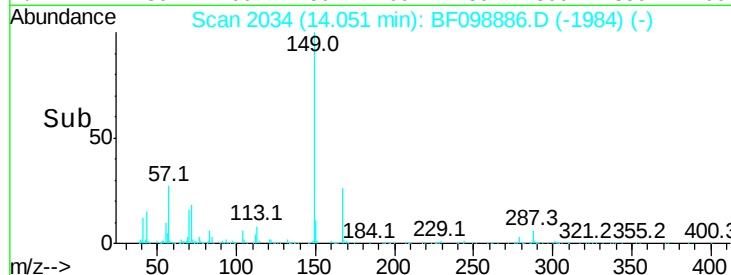
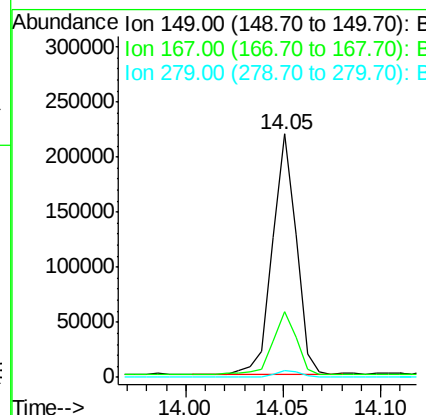
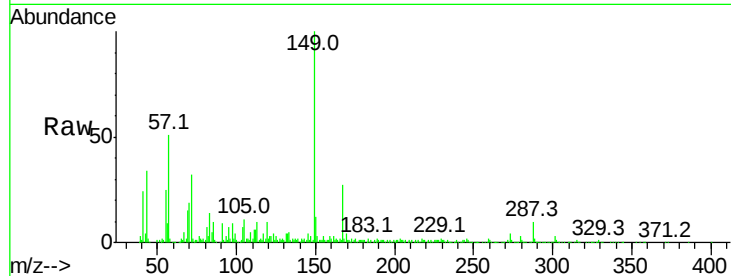




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 13.055 ng  
 RT: 14.05 min Scan# 2034  
 Delta R.T. -0.01 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-DRUM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.2  | 21.3  | 31.9  |
| 279     | 3.1   | 3.0   | 4.4   |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.57 min Scan# 2293  
 Delta R.T. -0.00 min  
 Lab File: BF098886.D  
 Acq: 28 Sep 2017 2:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.2  | 28.8  |
| 265     | 20.9  | 17.5  | 26.3  |

