

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081318\  
 Data File : BF108114.D  
 Acq On : 13 Aug 2018 14:22  
 Operator : JU/SJ  
 Sample : J4272-13RE 2X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 13 15:00:50 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 08 12:24:24 2018  
 Response via : Initial Calibration

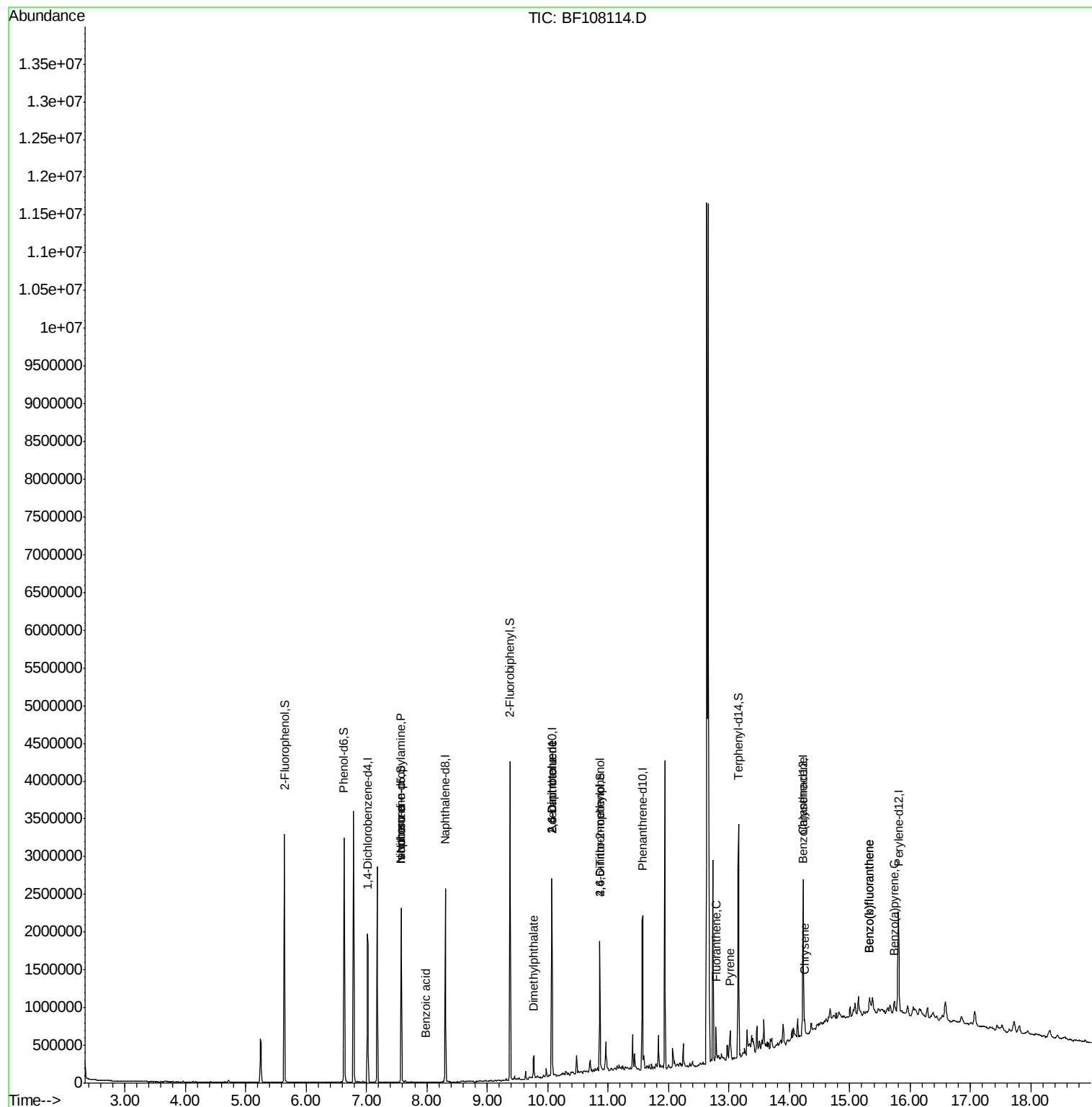
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.02  | 152  | 286458   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.31  | 136  | 1039810  | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 10.07 | 164  | 480149   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.57 | 188  | 767793   | 20.00  | ng    | 0.01     |
| 75) Chrysene-d12               | 14.23 | 240  | 694501   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12               | 15.81 | 264  | 665035   | 20.00  | ng    | 0.03     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 771350   | 48.75  | ng    | 0.01     |
| 7) Phenol-d6                   | 6.63  | 99   | 1036980  | 49.32  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.58  | 82   | 664289   | 35.65  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.87 | 330  | 216027   | 45.11  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.38  | 172  | 1208344  | 40.40  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.16 | 244  | 1008218  | 36.91  | ng    | 0.01     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.58  | 70   | 90491    | 6.364  | ng    | # 86     |
| 25) Isophorone                 | 7.58  | 82   | 661834   | 18.634 | ng    | # 64     |
| 32) Benzoic acid               | 7.98  | 122  | 585      | 6.030  | ng    | # 89     |
| 49) Dimethylphthalate          | 9.77  | 163  | 96455    | 2.884  | ng    | # 97     |
| 50) 2,6-Dinitrotoluene         | 10.07 | 165  | 63350    | 9.053  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 10.07 | 165  | 63350    | 7.033  | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.86 | 198  | 653      | 5.560  | ng    | # 1      |
| 74) Fluoranthene               | 12.79 | 202  | 142890   | 3.615  | ng    | 95       |
| 77) Pyrene                     | 13.02 | 202  | 137744   | 3.133  | ng    | 99       |
| 80) Benzo(a)anthracene         | 14.22 | 228  | 82455    | 2.069  | ng    | 95       |
| 82) Chrysene                   | 14.25 | 228  | 74417    | 2.037  | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 15.33 | 252  | 143192   | 3.603  | ng    | # 87     |
| 88) Benzo(k)fluoranthene       | 15.33 | 252  | 143192   | 3.920  | ng    | # 90     |
| 89) Benzo(a)pyrene             | 15.74 | 252  | 74556    | 2.095  | ng    | # 83     |

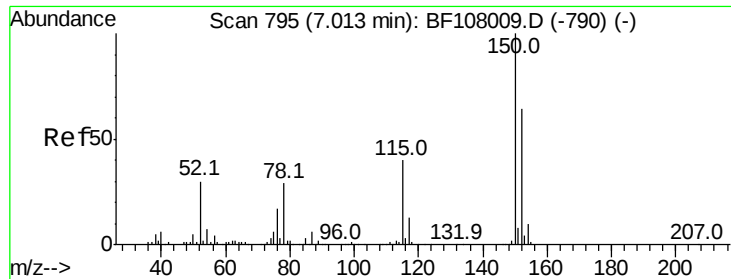
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081318\  
Data File : BF108114.D  
Acq On : 13 Aug 2018 14:22  
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Sample : J4272-13RE 2X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Aug 13 15:00:50 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 08 12:24:24 2018  
Response via : Initial Calibration



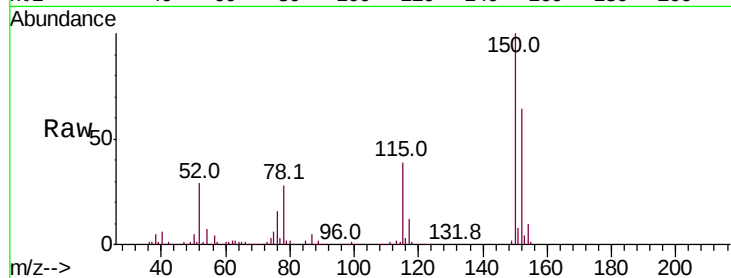


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.02 min Scan# 796  
Delta R.T. 0.01 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.9 | 124.6 | 186.8 |
| 115     | 60.9  | 50.1  | 75.1  |

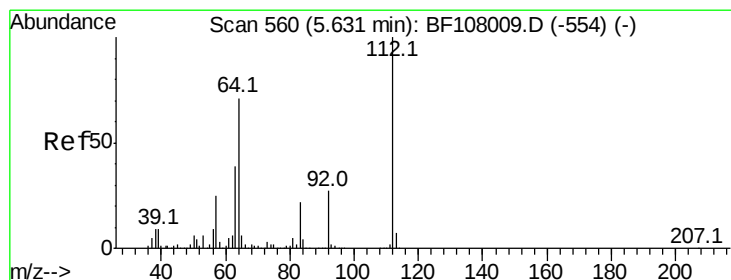
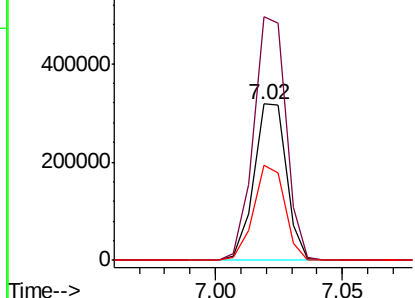
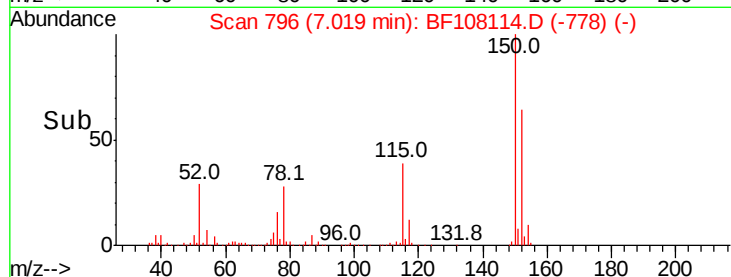


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

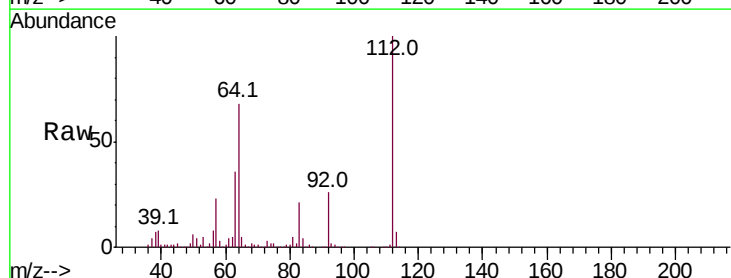
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 48.750 ng  
RT: 5.64 min Scan# 562  
Delta R.T. 0.01 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.9  | 47.9  | 71.9  |
| 63      | 35.7  | 23.7  | 35.5  |

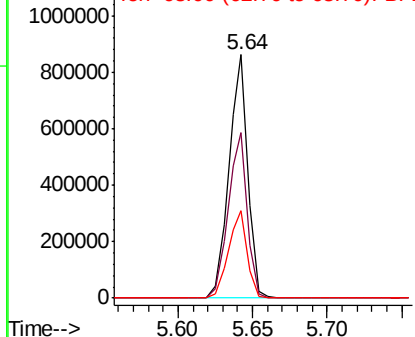
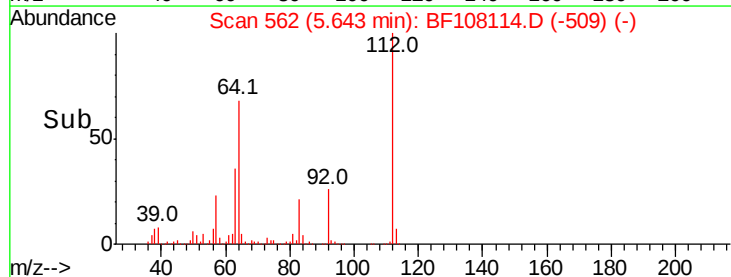


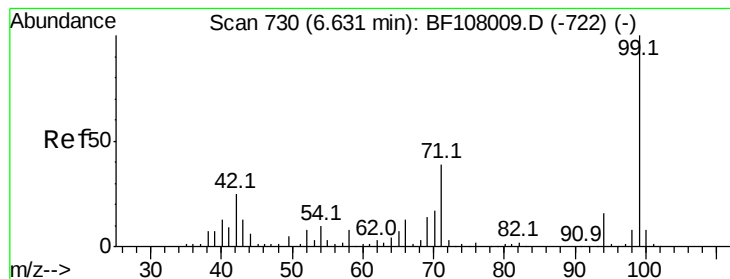
Abundance

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: 49.319 ng

RT: 6.63 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF108114.D

Acq: 13 Aug 2018 14:22

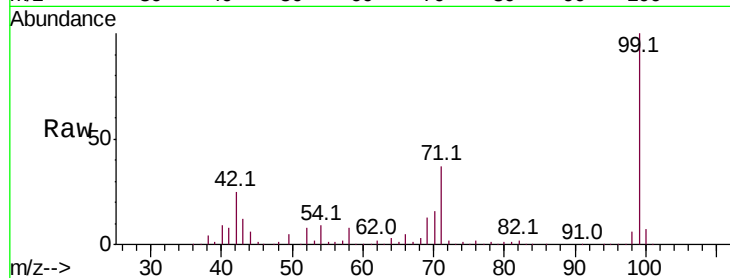
Instrument :

BNA\_F

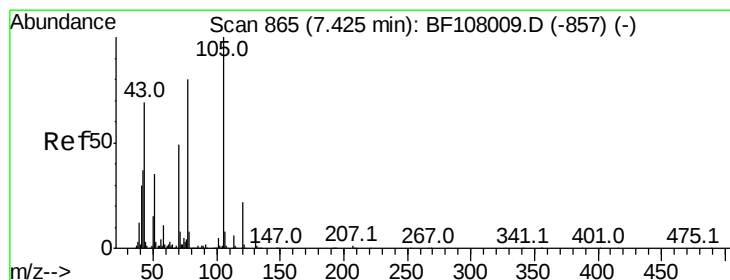
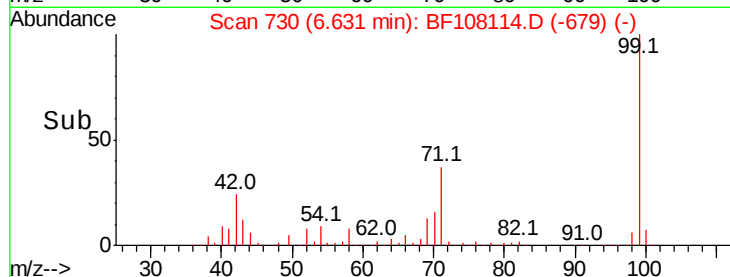
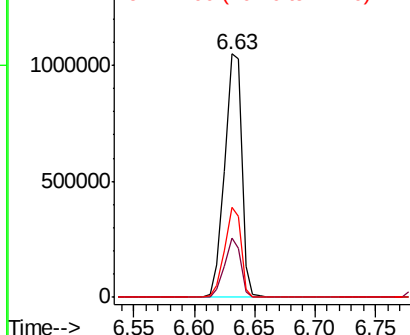
ClientSampleId :

Tot Ion: 99 Resp: 1036980

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 24.5  | 14.5  | 21.7# |
| 71  | 36.8  | 25.4  | 38.0  |



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 6.364 ng

RT: 7.58 min Scan# 891

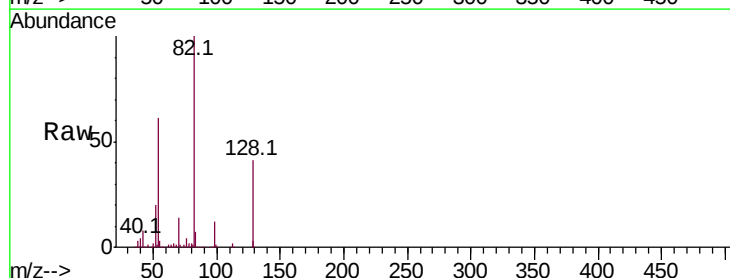
Delta R.T. 0.15 min

Lab File: BF108114.D

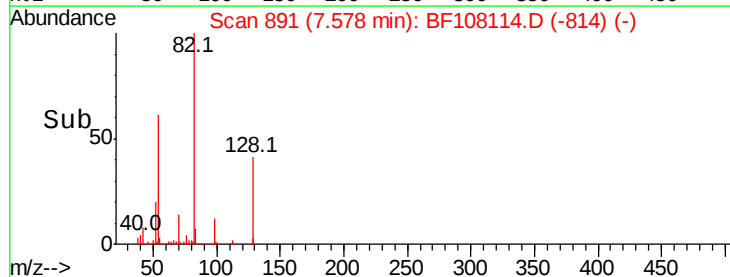
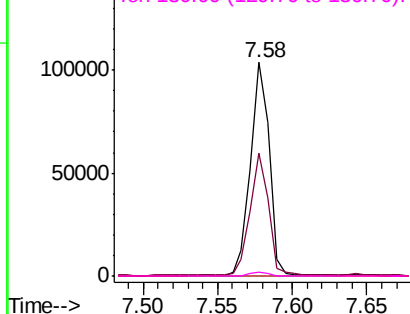
Acq: 13 Aug 2018 14:22

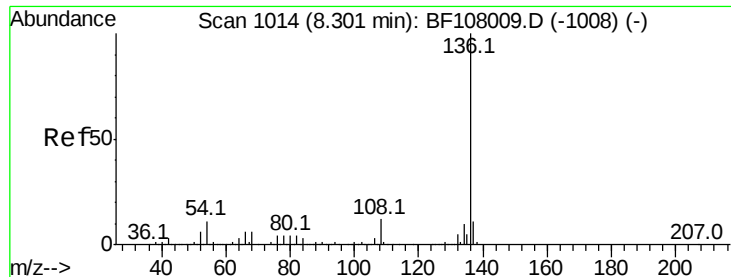
Tgt Ion: 70 Resp: 90491

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 57.4  | 47.5  | 71.3  |
| 101 | 0.0   | 7.4   | 11.2# |
| 130 | 1.9   | 16.6  | 25.0# |



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.31 min Scan# 1015

Delta R.T. 0.01 min

Lab File: BF108114.D

Acq: 13 Aug 2018 14:22

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 1039810

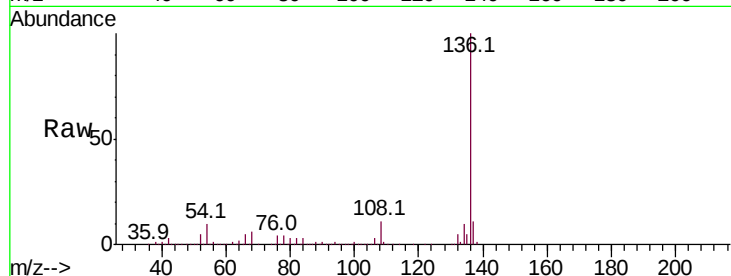
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 9.7 6.6 9.8

68 6.1 5.0 7.4

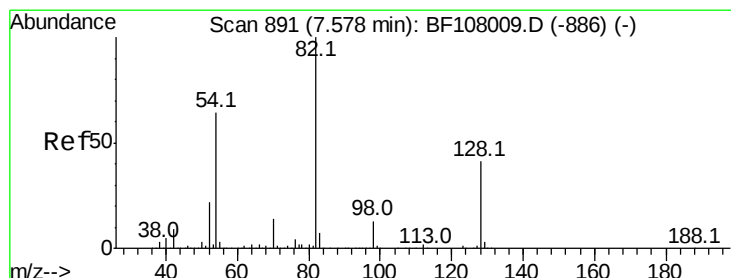
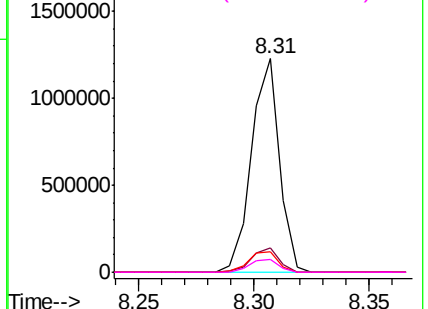
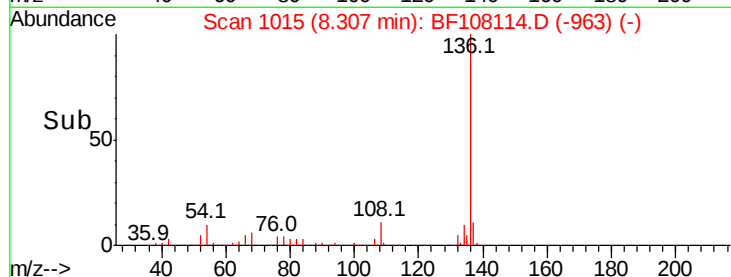


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 35.649 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.00 min

Lab File: BF108114.D

Acq: 13 Aug 2018 14:22

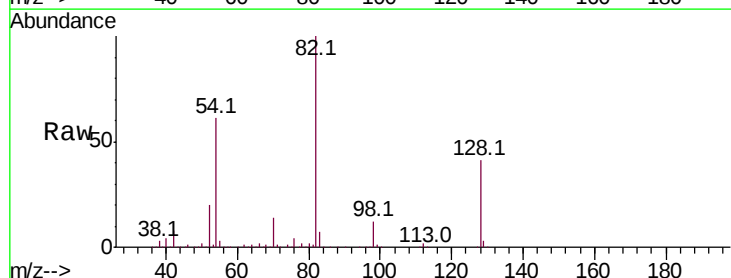
Tgt Ion: 82 Resp: 664289

Ion Ratio Lower Upper

82 100

128 40.8 36.1 54.1

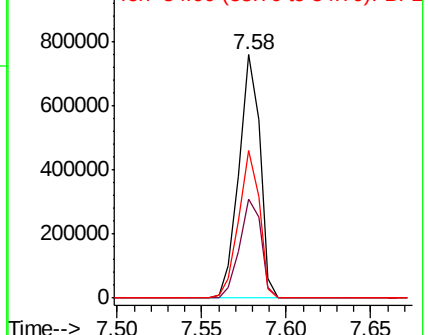
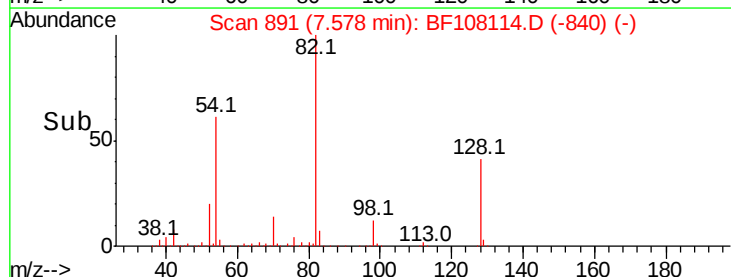
54 60.7 41.4 62.2

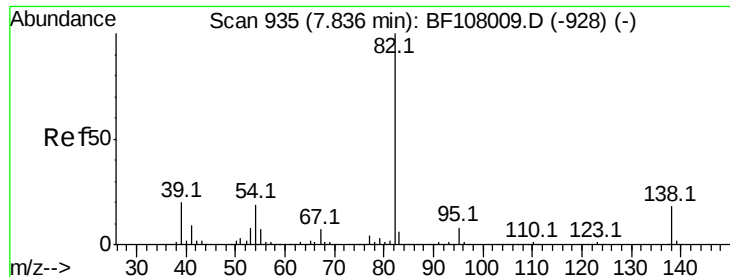


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 18.634 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108114.D

Acq: 13 Aug 2018 14:22

Instrument :

BNA\_F

ClientSampleId :

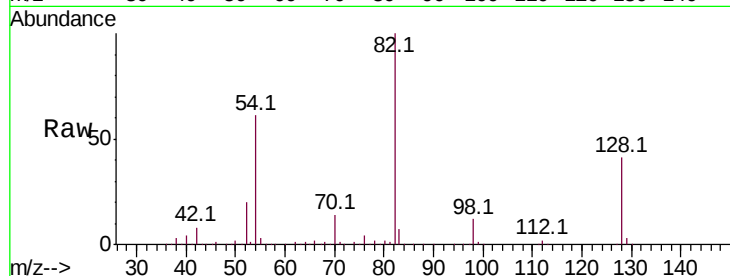
Tot Ion: 82 Resp: 661834

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

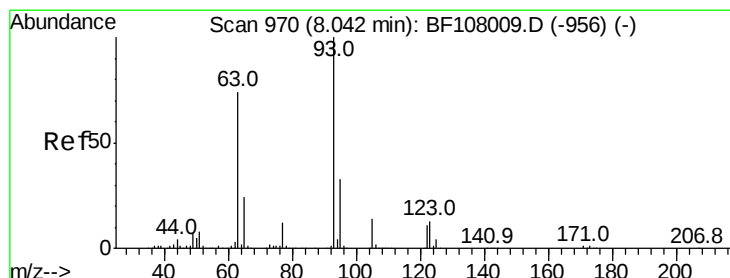
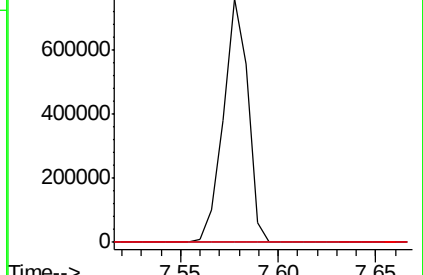
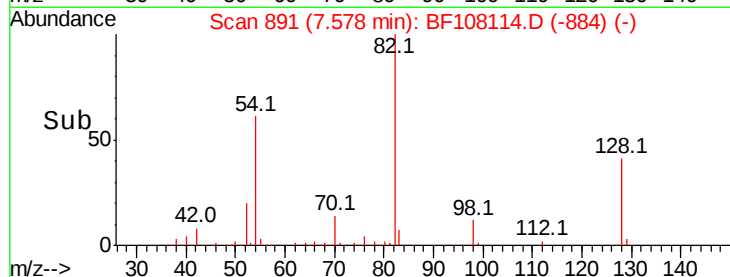
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#32

Benzoic acid

Concen: 6.030 ng

RT: 7.98 min Scan# 959

Delta R.T. -0.06 min

Lab File: BF108114.D

Acq: 13 Aug 2018 14:22

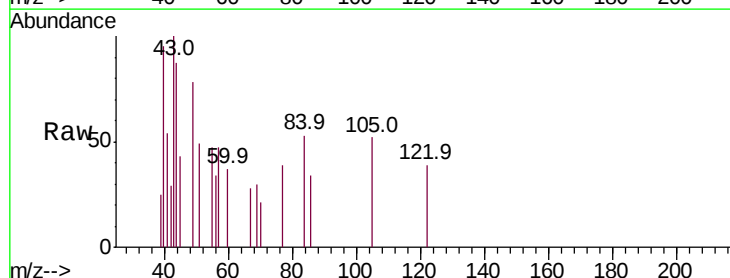
Tgt Ion: 122 Resp: 585

Ion Ratio Lower Upper

122 100

105 134.2 101.1 141.1

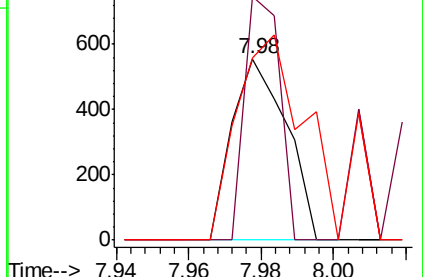
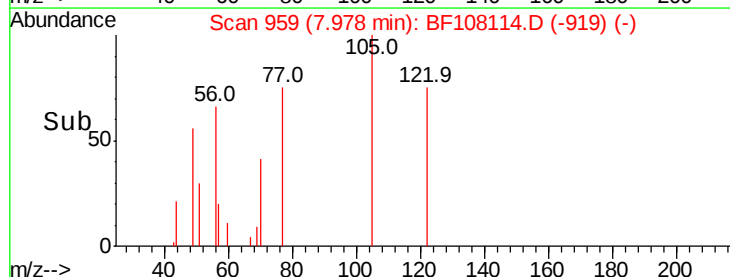
77 100.4 70.7 110.7

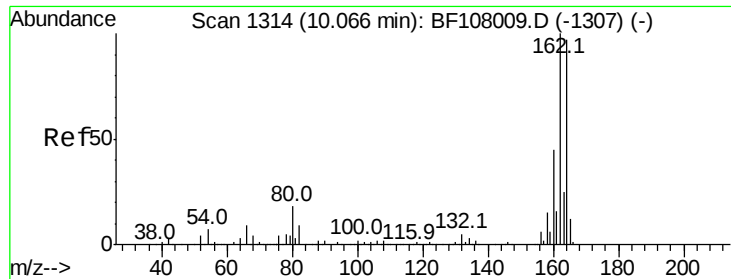


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.07 min Scan# 1315

Delta R.T. 0.01 min

Lab File: BF108114.D

Acq: 13 Aug 2018 14:22

Instrument :

BNA\_F

ClientSampleId :

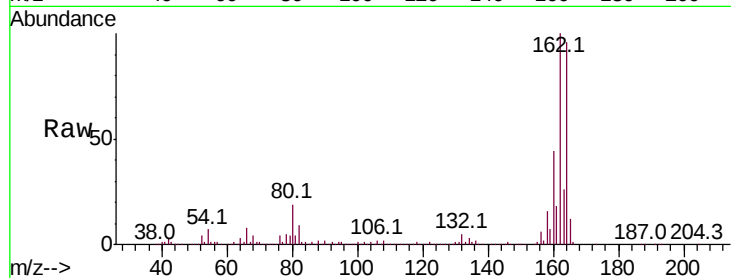
Tot Ion:164 Resp: 480149

Ion Ratio Lower Upper

164 100

162 104.3 86.1 129.1

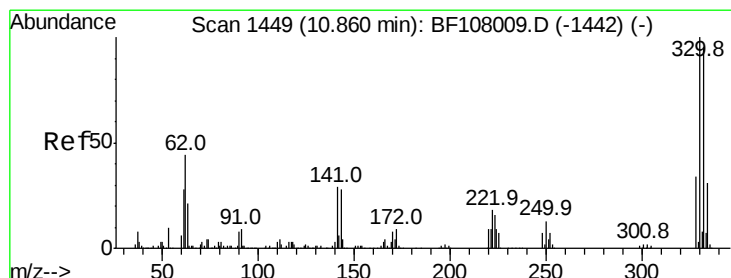
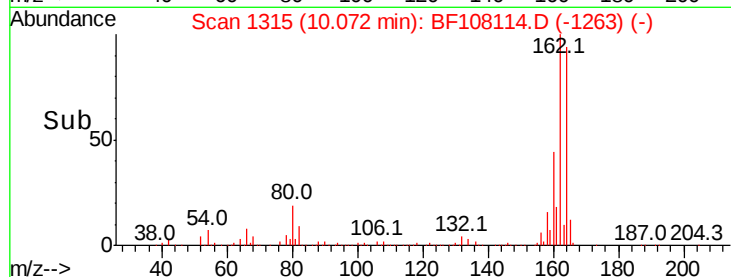
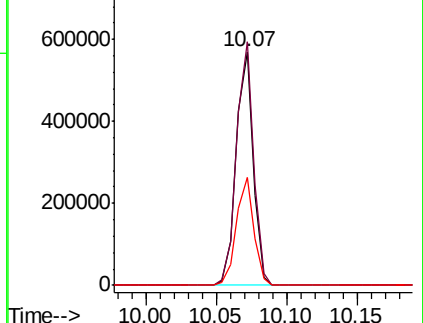
160 46.3 38.3 57.5



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: 45.106 ng

RT: 10.87 min Scan# 1450

Delta R.T. 0.01 min

Lab File: BF108114.D

Acq: 13 Aug 2018 14:22

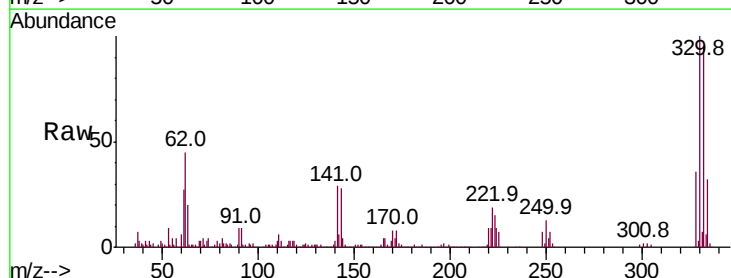
Tgt Ion:330 Resp: 216027

Ion Ratio Lower Upper

330 100

332 94.8 77.0 115.6

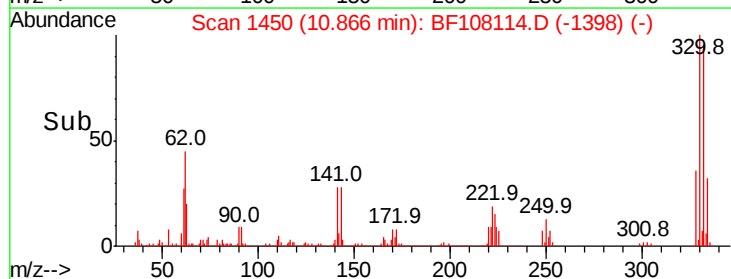
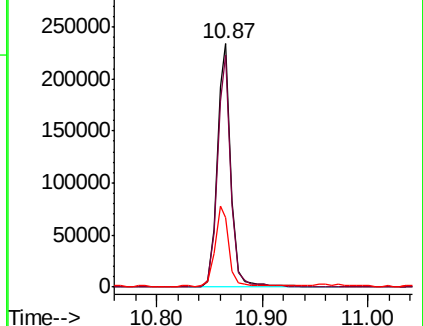
141 33.3 29.9 44.9

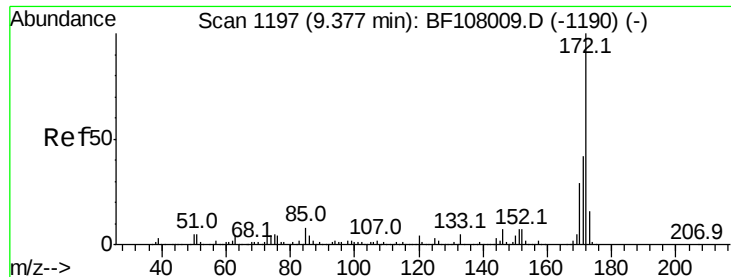


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

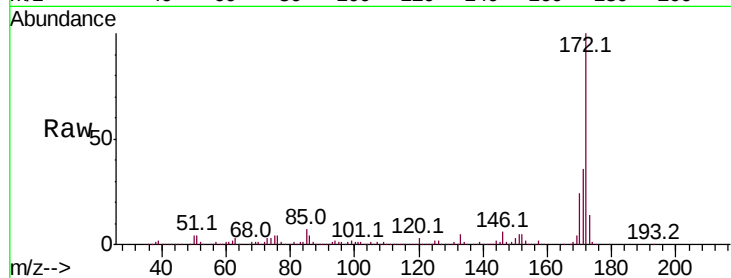




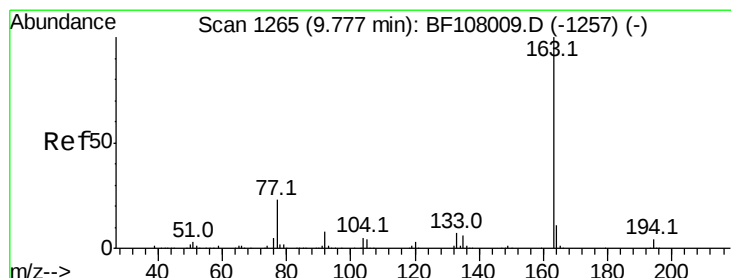
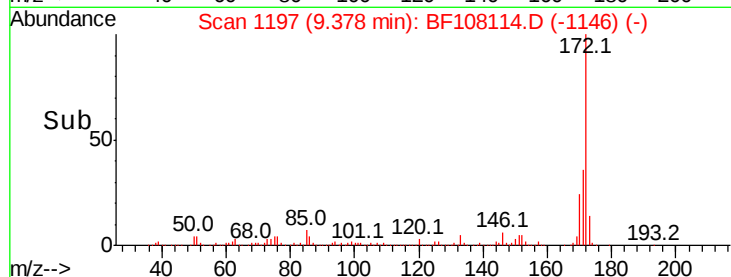
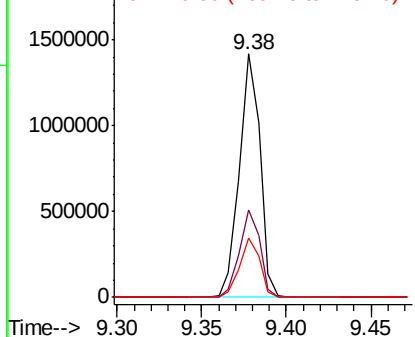
#44  
2-Fluorobiphenyl  
Concen: 40.403 ng  
RT: 9.38 min Scan# 1197  
Delta R.T. 0.00 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1208344  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.7 44.5  
170 24.4 19.6 29.4

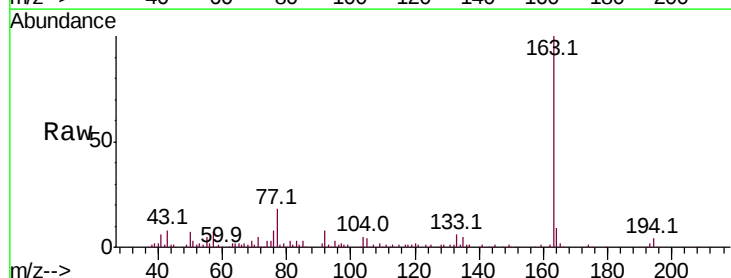


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

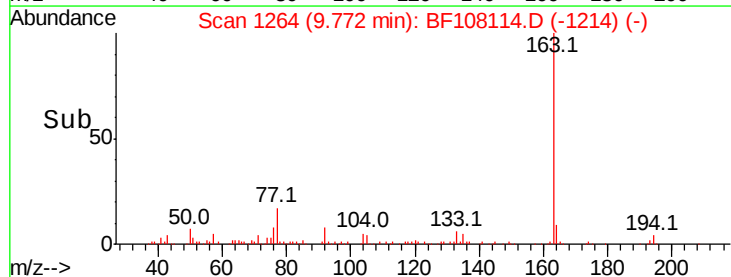
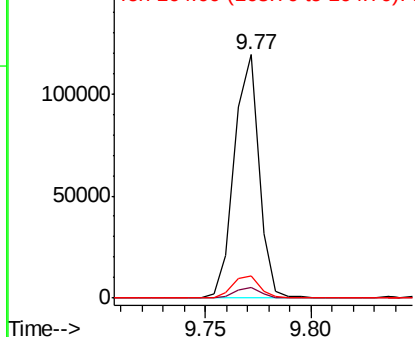


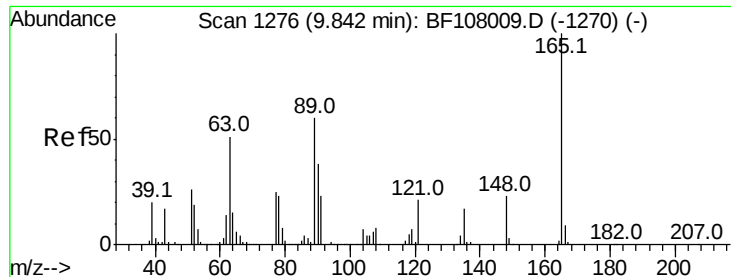
#49  
Dimethylphthalate  
Concen: 2.884 ng  
RT: 9.77 min Scan# 1264  
Delta R.T. -0.01 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

Tgt Ion:163 Resp: 96455  
Ion Ratio Lower Upper  
163 100  
194 4.4 2.7 4.1#  
164 9.1 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

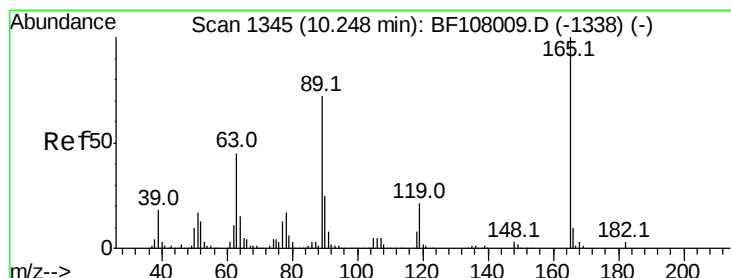
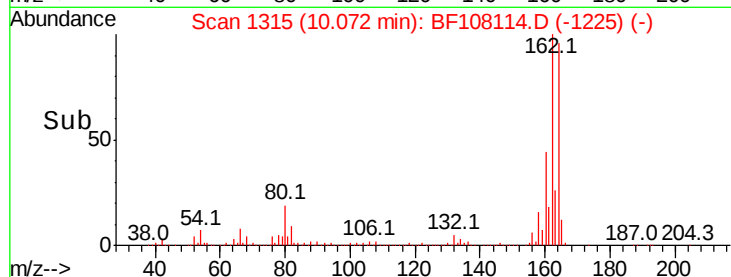
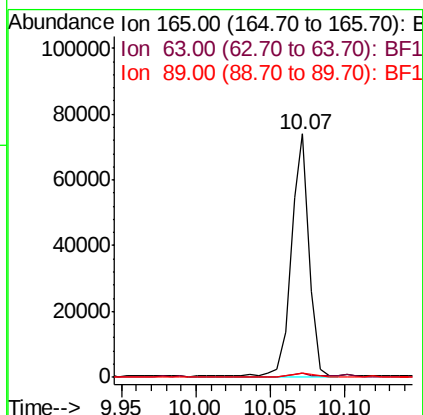
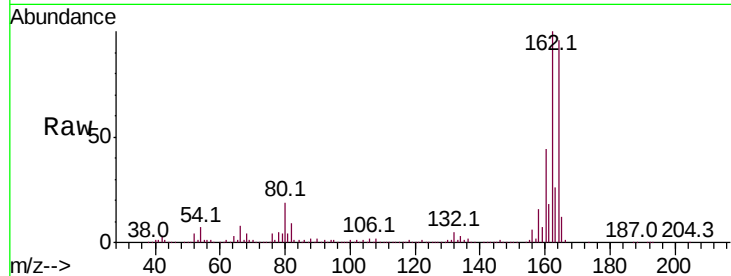




#50  
 2,6-Dinitrotoluene  
 Concen: 9.053 ng  
 RT: 10.07 min Scan# 1315  
 Delta R.T. 0.23 min  
 Lab File: BF108114.D  
 Acq: 13 Aug 2018 14:22

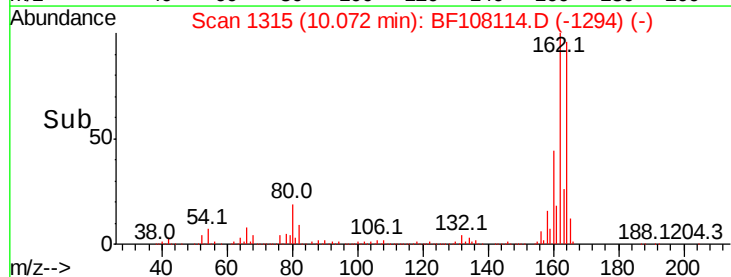
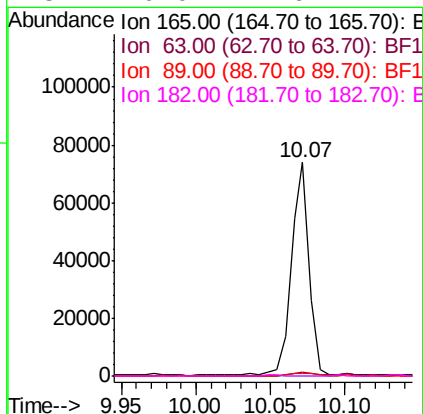
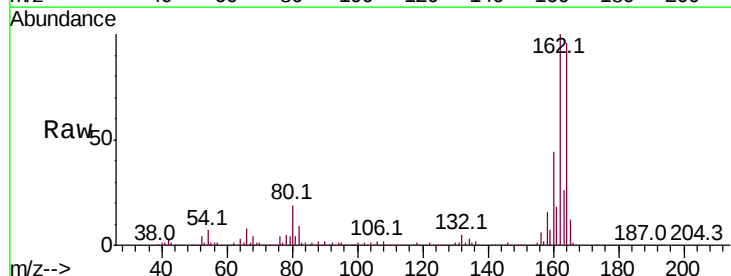
Instrument :  
 BNA\_F  
 ClientSampleId :

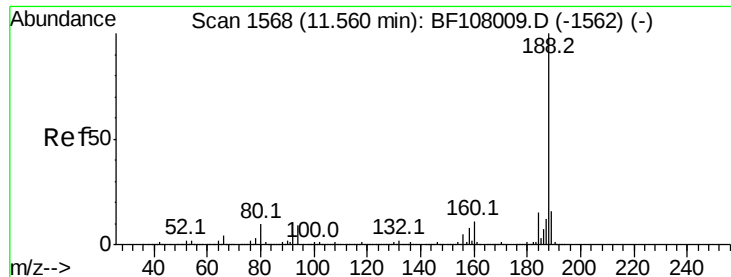
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 44.7  | 67.1# |
| 89      | 1.5   | 44.0  | 66.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 7.033 ng  
 RT: 10.07 min Scan# 1315  
 Delta R.T. -0.18 min  
 Lab File: BF108114.D  
 Acq: 13 Aug 2018 14:22

| Tgt 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#  |

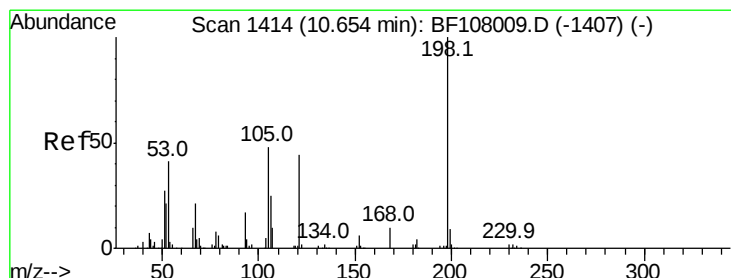
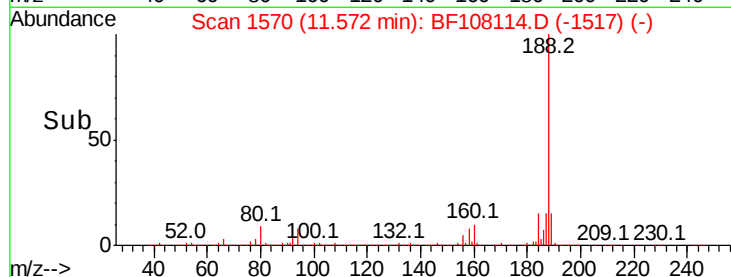
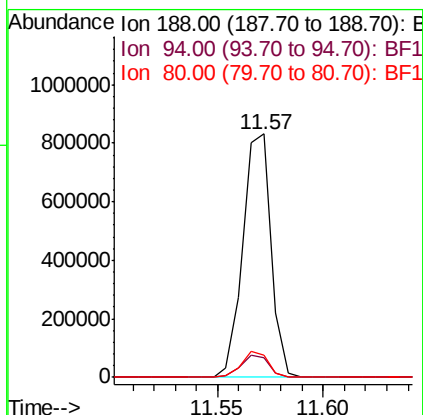
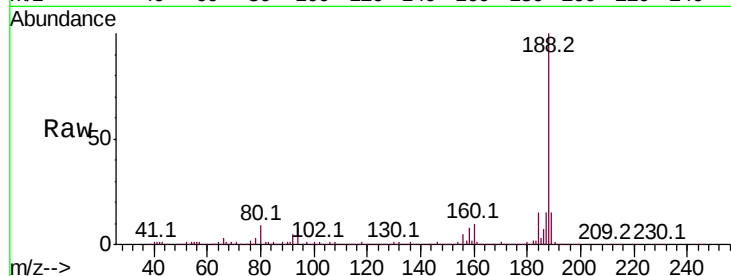




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.57 min Scan# 1570  
Delta R.T. 0.01 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

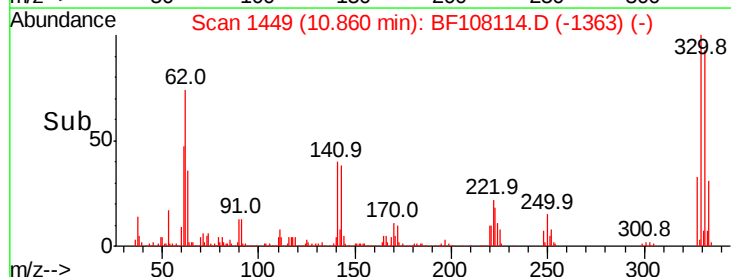
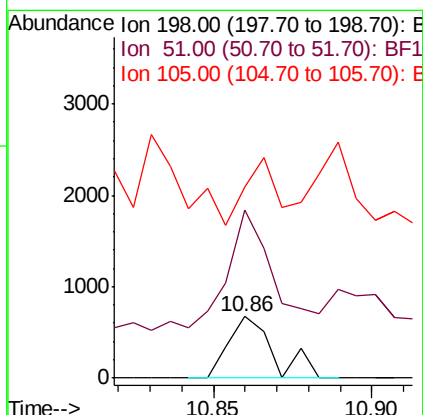
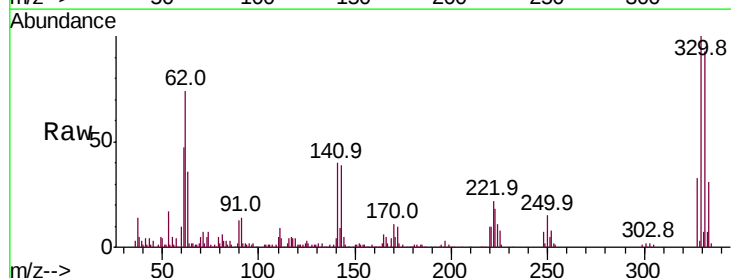
Instrument :  
BNA\_F  
ClientSampled :

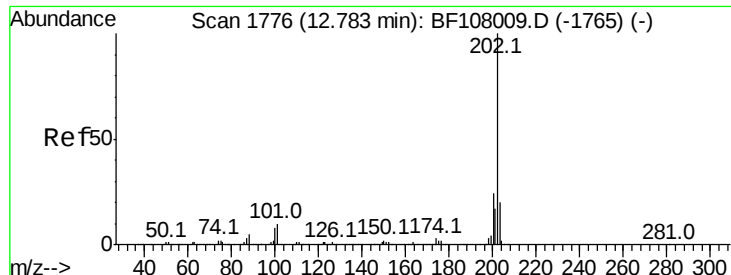
Tot Ion:188 Resp: 767793  
Ion Ratio Lower Upper  
188 100  
94 8.1 8.5 12.7#  
80 9.1 9.2 13.8#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.560 ng  
RT: 10.86 min Scan# 1449  
Delta R.T. 0.21 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

Tgt Ion:198 Resp: 653  
Ion Ratio Lower Upper  
198 100  
51 273.8 37.7 77.7#  
105 310.9 36.3 76.3#

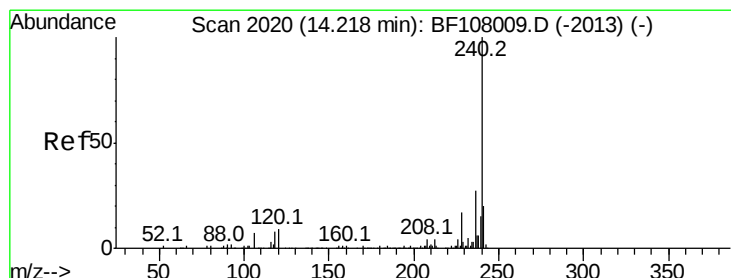
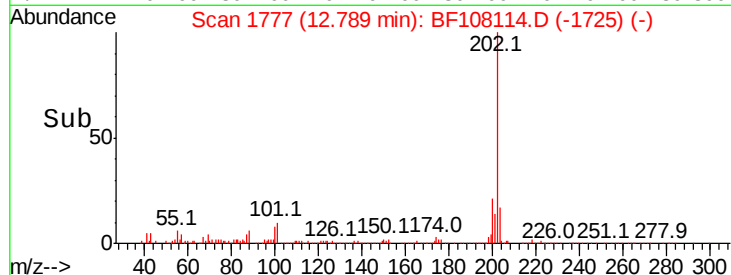
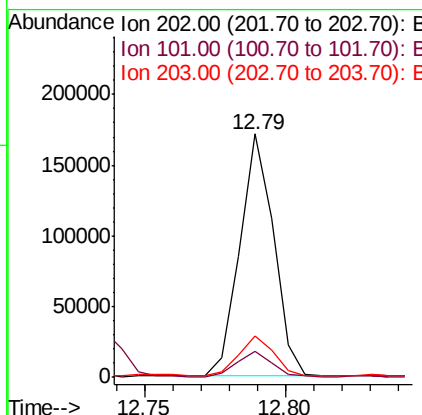
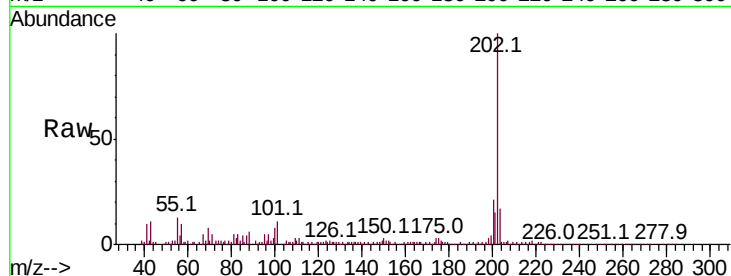




#74  
 Fluoranthene  
 Concen: 3.615 ng  
 RT: 12.79 min Scan# 1777  
 Delta R.T. 0.01 min  
 Lab File: BF108114.D  
 Acq: 13 Aug 2018 14:22

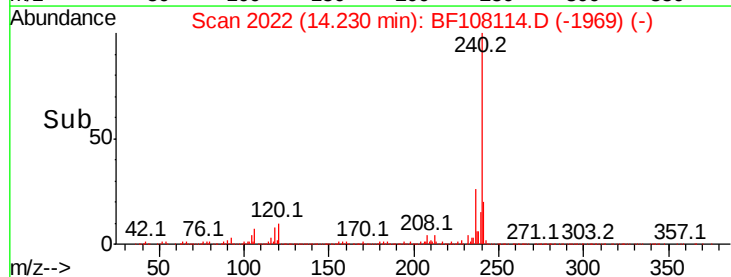
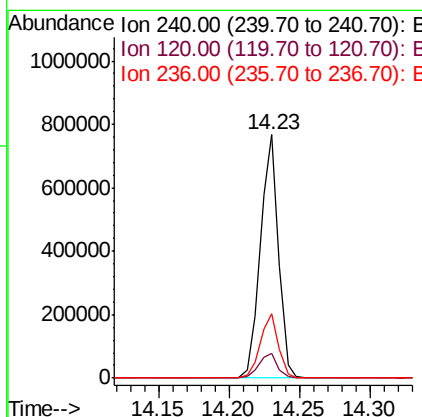
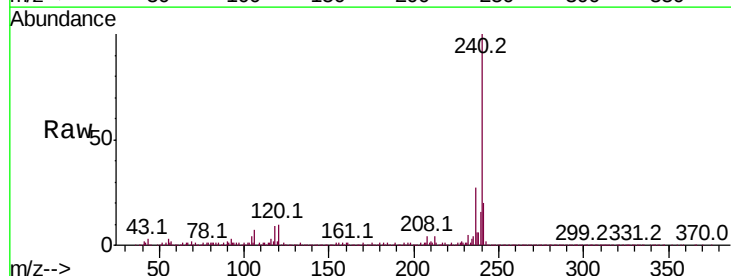
Instrument :  
 BNA\_F  
 ClientSampleId :

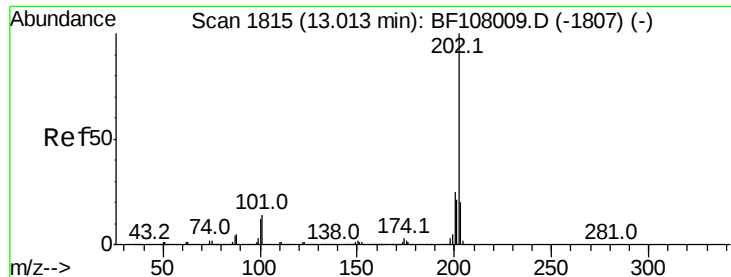
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 142890 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 10.7  | 0.0   | 34.1   |
| 203      | 17.2  | 0.0   | 38.1   |



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.23 min Scan# 2022  
 Delta R.T. 0.01 min  
 Lab File: BF108114.D  
 Acq: 13 Aug 2018 14:22

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 694501 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 10.2  | 9.5   | 14.3   |
| 236      | 26.6  | 20.7  | 31.1   |





#77

Pvrene

Concen: 3.133 ng

RT: 13.02 min Scan# 1817

Delta R.T. 0.01 min

Lab File: BF108114.D

Acq: 13 Aug 2018 14:22

Instrument :

BNA\_F

ClientSampleId :

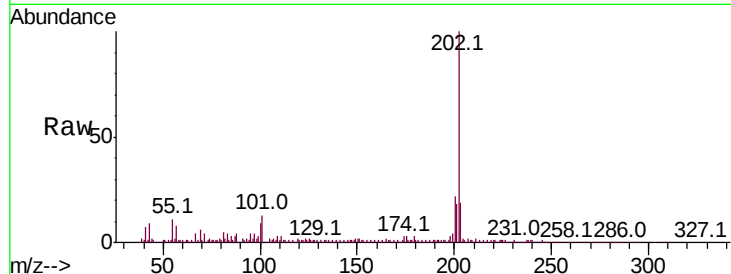
Tot Ion:202 Resp: 137744

Ion Ratio Lower Upper

202 100

200 22.0 17.4 26.2

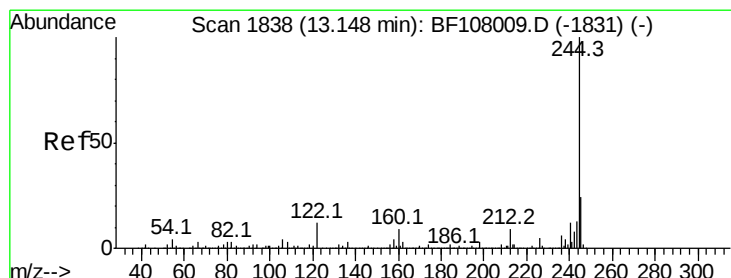
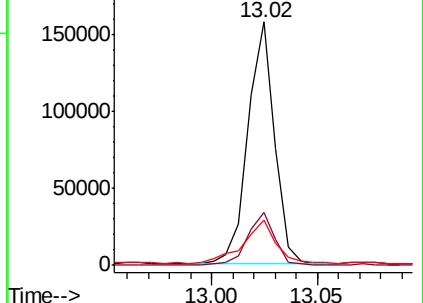
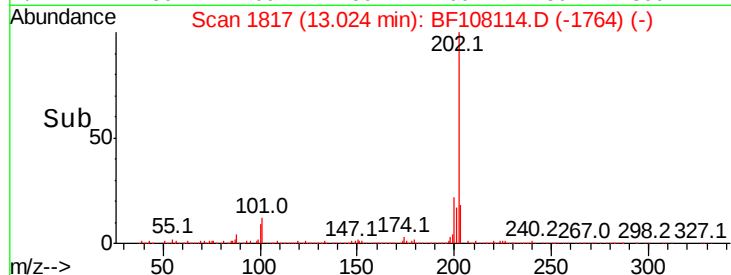
203 18.6 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 36.911 ng

RT: 13.16 min Scan# 1840

Delta R.T. 0.01 min

Lab File: BF108114.D

Acq: 13 Aug 2018 14:22

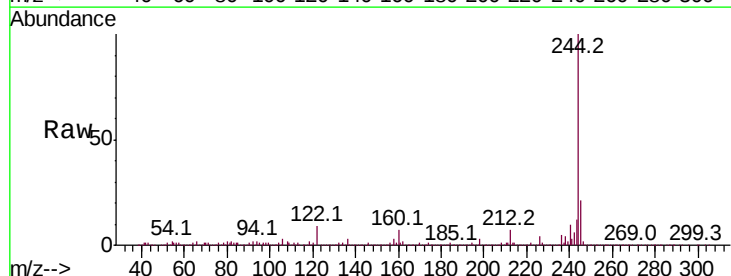
Tgt Ion:244 Resp: 1008218

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.0

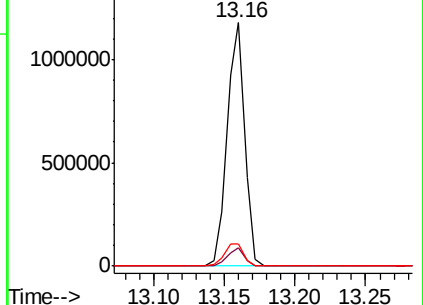
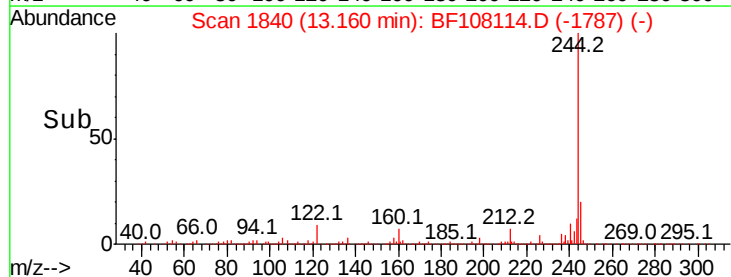
122 9.2 11.0 16.4

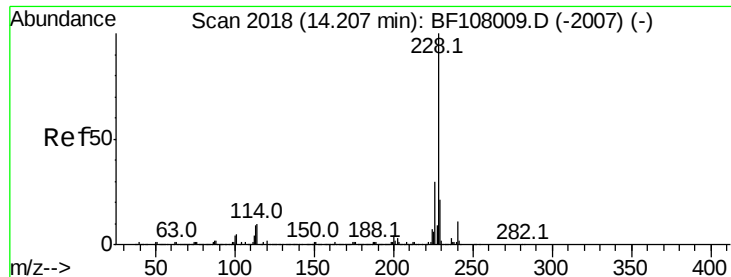


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

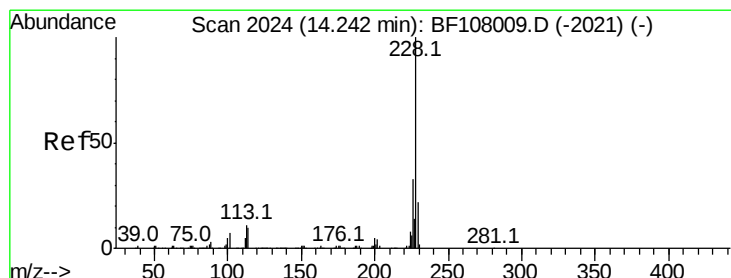
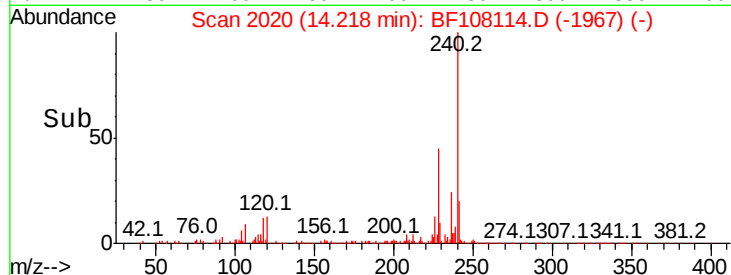
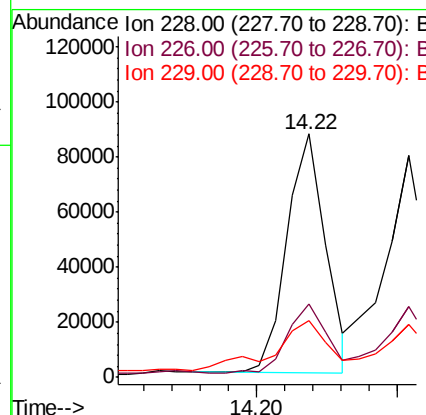
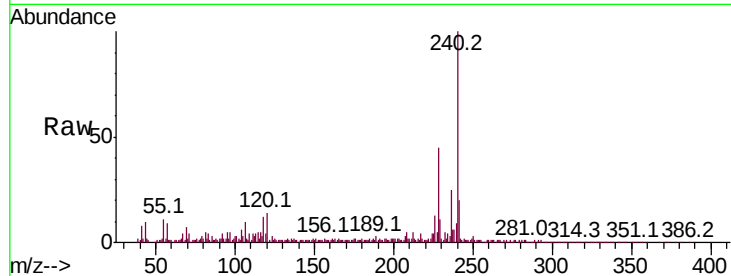




#80  
Benzo(a)anthracene  
Concen: 2.069 ng  
RT: 14.22 min Scan# 2020  
Delta R.T. 0.01 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

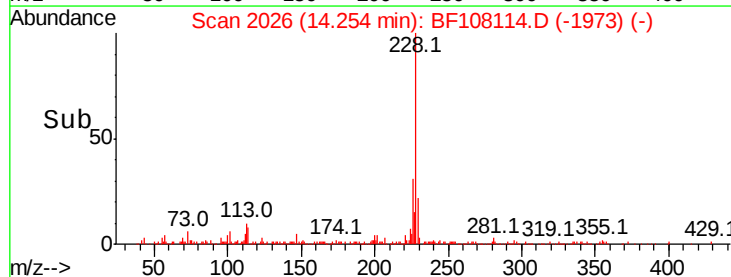
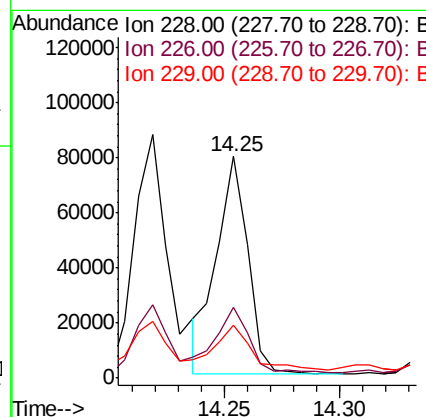
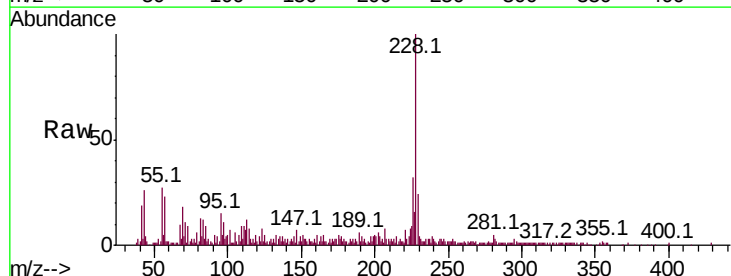
Instrument :  
BNA\_F  
ClientSampled :

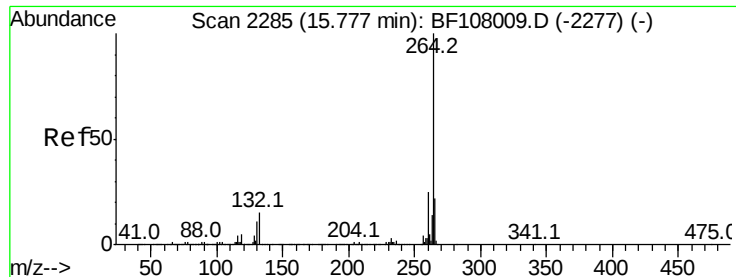
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.0  | 22.6  | 33.8  |
| 229     | 23.5  | 15.8  | 23.6  |



#82  
Chrysene  
Concen: 2.037 ng  
RT: 14.25 min Scan# 2026  
Delta R.T. 0.01 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 25.0  | 37.6  |
| 229     | 23.7  | 16.2  | 24.4  |

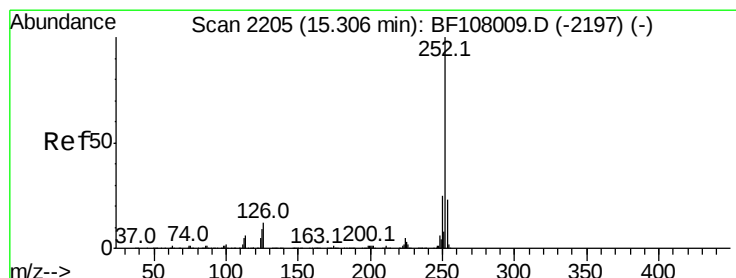
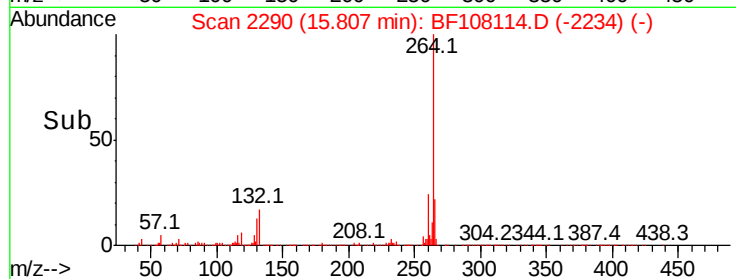
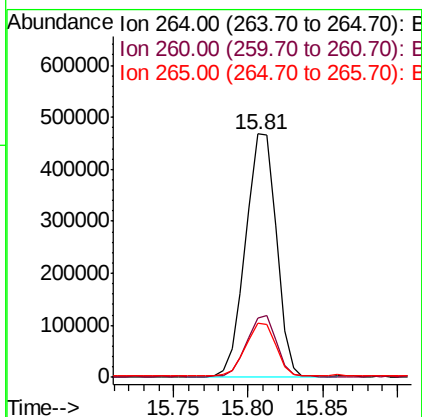
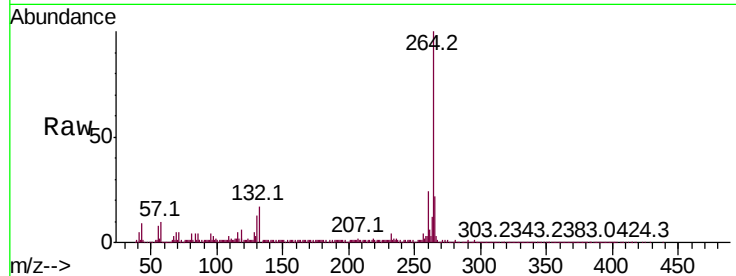




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.81 min Scan# 2290  
Delta R.T. 0.03 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

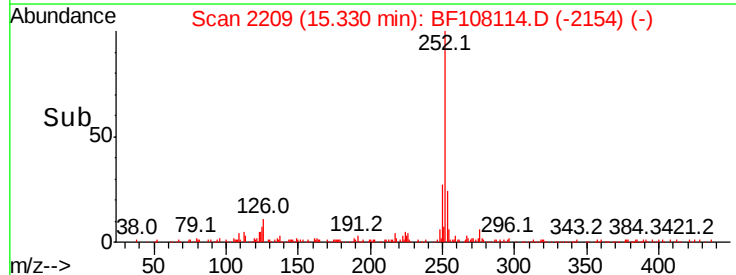
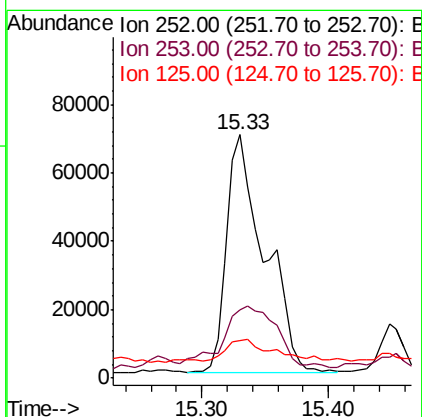
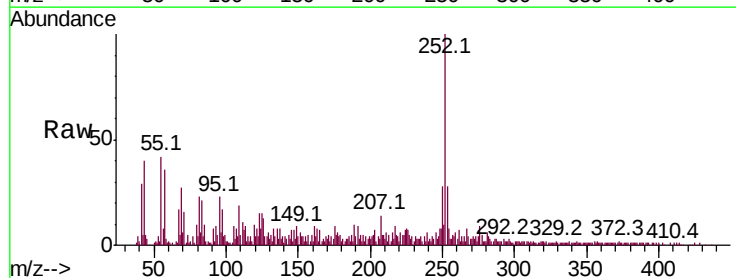
Instrument :  
BNA\_F  
ClientSampleId :

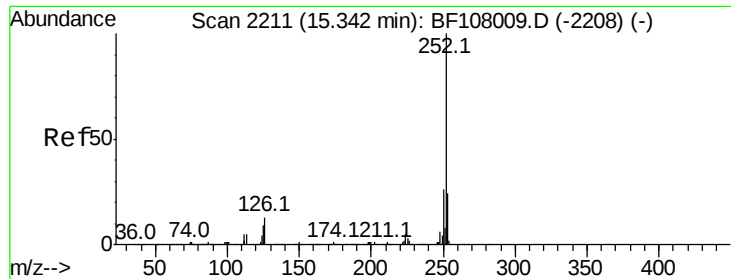
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.2  | 28.8  |
| 265     | 22.3  | 17.5  | 26.3  |



#87  
Benzo(b)fluoranthene  
Concen: 3.603 ng  
RT: 15.33 min Scan# 2209  
Delta R.T. 0.02 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.2  | 17.0  | 25.6# |
| 125     | 15.3  | 9.0   | 13.6# |

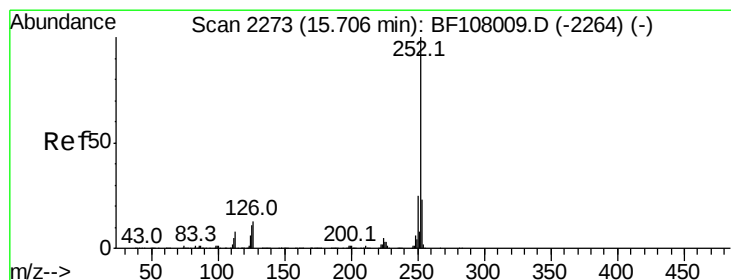
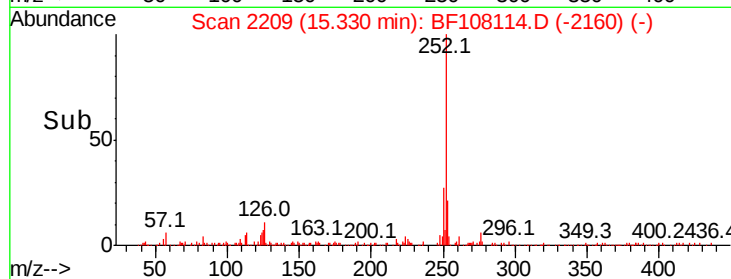
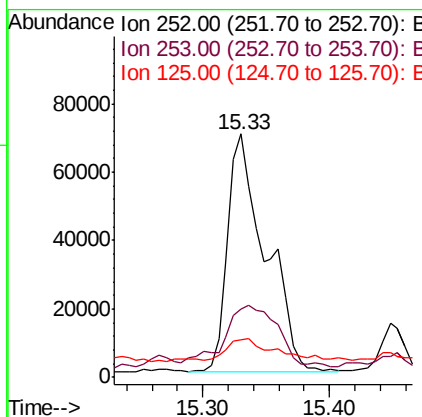
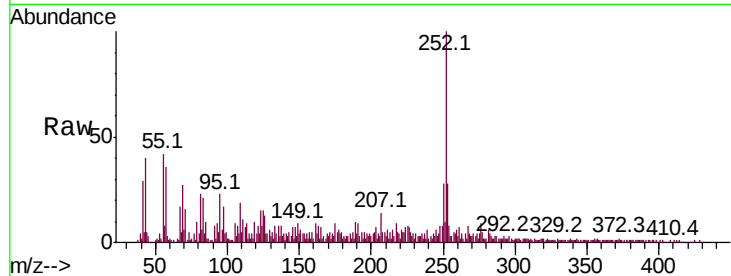




#88  
Benzo(k)fluoranthene  
Concen: 3.920 ng  
RT: 15.33 min Scan# 2209  
Delta R.T. -0.01 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.2  | 17.9  | 26.9# |
| 125     | 15.3  | 10.2  | 15.2# |



#89  
Benzo(a)pyrene  
Concen: 2.095 ng  
RT: 15.74 min Scan# 2278  
Delta R.T. 0.03 min  
Lab File: BF108114.D  
Acq: 13 Aug 2018 14:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.4  | 17.1  | 25.7# |
| 125     | 19.8  | 9.8   | 14.6# |

