

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082718\  
 Data File : BF108503.D  
 Acq On : 27 Aug 2018 12:02  
 Operator : JU/SJ  
 Sample : J4282-11 5X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 27 13:00:20 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 22 11:01:45 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.00  | 152  | 119945   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.28  | 136  | 483281   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.04 | 164  | 241838   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.54 | 188  | 457754   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 14.19 | 240  | 299262   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.75 | 264  | 314531   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.62  | 112  | 94521    | 14.27 | ng    | -0.01    |
| 7) Phenol-d6                | 6.61  | 99   | 133708   | 15.19 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.55  | 82   | 83520    | 9.64  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.84 | 330  | 36442    | 15.11 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.35  | 172  | 178945   | 11.88 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.12 | 244  | 147298   | 12.51 | ng    | -0.01    |

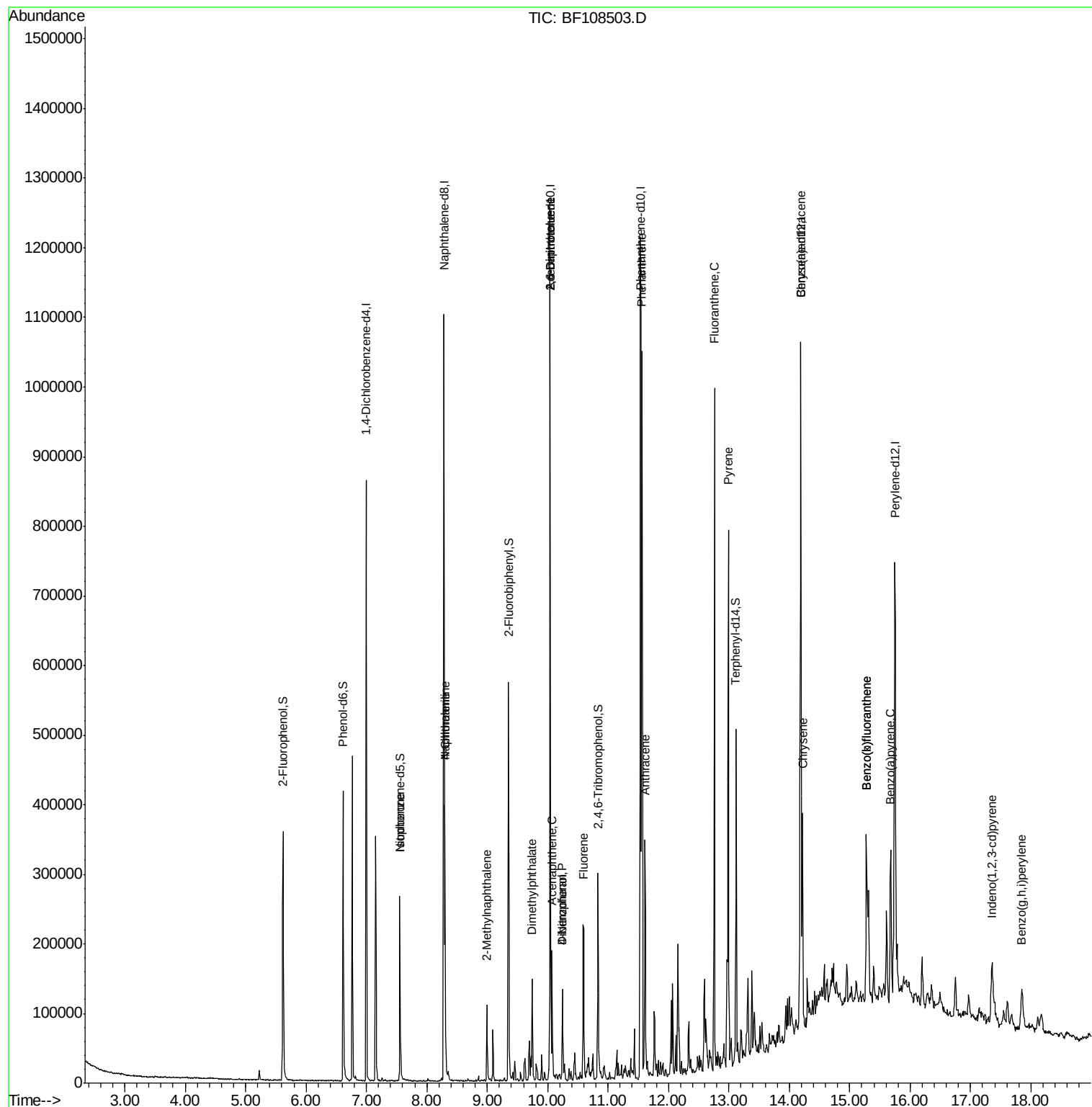
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 25) Isophorone             | 7.55  | 82   | 83519    | 5.059  | ng    | # 64   |
| 31) Naphthalene            | 8.30  | 128  | 157006   | 7.144  | ng    | 99     |
| 33) 4-Chloroaniline        | 8.30  | 127  | 19582    | 2.044  | ng    | # 34   |
| 37) 2-Methylnaphthalene    | 9.00  | 142  | 31916    | 2.052  | ng    | 97     |
| 49) Dimethylphthalate      | 9.74  | 163  | 56533    | 3.356  | ng    | # 99   |
| 50) 2,6-Dinitrotoluene     | 10.04 | 165  | 32707    | 9.280  | ng    | # 26   |
| 51) Acenaphthene           | 10.08 | 154  | 39670    | 2.907  | ng    | 98     |
| 54) Dibenzofuran           | 10.25 | 168  | 49431    | 2.500  | ng    | 99     |
| 55) 4-Nitrophenol          | 10.25 | 139  | 18920    | 6.479  | ng    | # 10   |
| 56) 2,4-Dinitrotoluene     | 10.04 | 165  | 32702    | 7.208  | ng    | # 23   |
| 57) Fluorene               | 10.60 | 166  | 65827    | 4.206  | ng    | 98     |
| 70) Phenanthrene           | 11.57 | 178  | 402243   | 18.630 | ng    | 99     |
| 71) Anthracene             | 11.61 | 178  | 130413   | 5.893  | ng    | 98     |
| 74) Fluoranthene           | 12.76 | 202  | 366186   | 15.540 | ng    | 94     |
| 77) Pyrene                 | 12.99 | 202  | 306933   | 16.200 | ng    | 99     |
| 80) Benzo(a)anthracene     | 14.18 | 228  | 133218   | 7.757  | ng    | 99     |
| 82) Chrysene               | 14.22 | 228  | 119537   | 7.592  | ng    | 98     |
| 85) Indeno(1,2,3-cd)pyrene | 17.35 | 276  | 58721    | 4.304  | ng    | # 88   |
| 87) Benzo(b)fluoranthene   | 15.28 | 252  | 198682   | 10.571 | ng    | 94     |
| 88) Benzo(k)fluoranthene   | 15.28 | 252  | 198682   | 11.500 | ng    | # 95   |
| 89) Benzo(a)pyrene         | 15.68 | 252  | 111016   | 6.596  | ng    | 96     |
| 91) Benzo(g,h,i)perylene   | 17.85 | 276  | 54101    | 3.946  | ng    | # 90   |

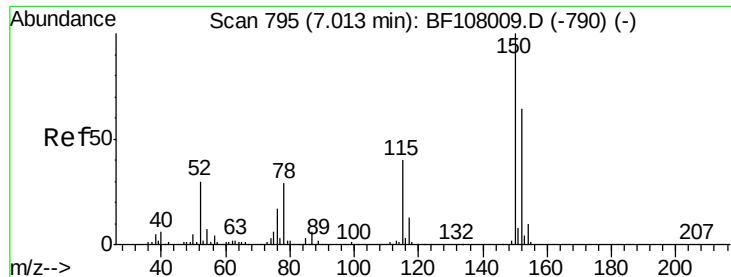
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_F  
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QLast Update : Wed Aug 22 11:01:45 2018  
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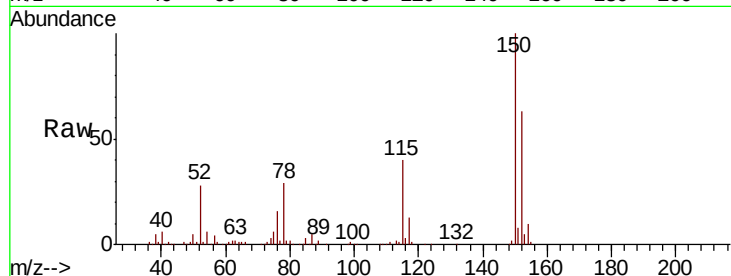


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.00 min Scan# 792  
Delta R.T. -0.01 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.1 | 124.6 | 186.8 |
| 115     | 63.1  | 50.1  | 75.1  |

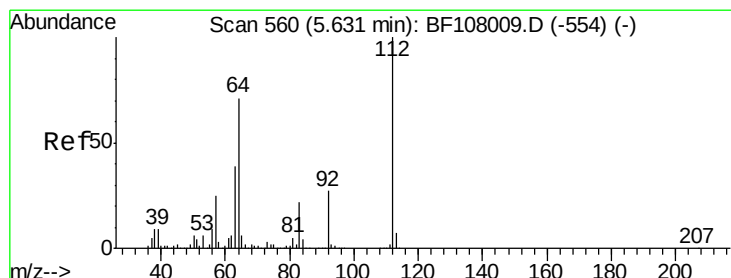
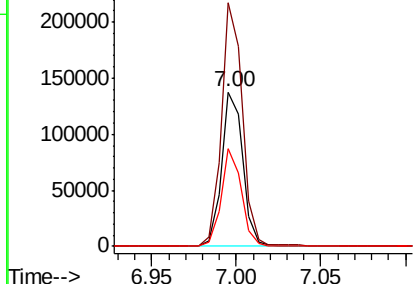
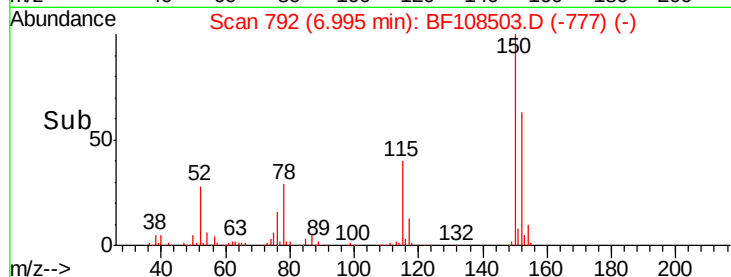


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

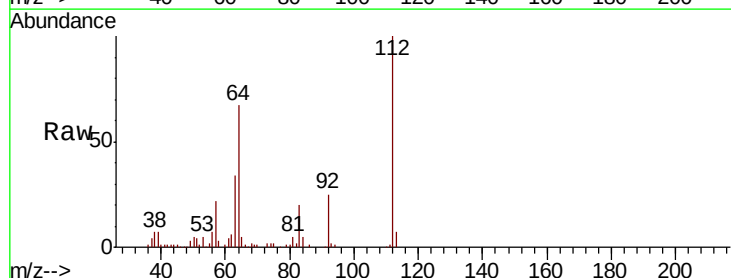
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 14.267 ng  
RT: 5.62 min Scan# 558  
Delta R.T. -0.01 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.4  | 47.9  | 71.9  |
| 63      | 33.7  | 23.7  | 35.5  |

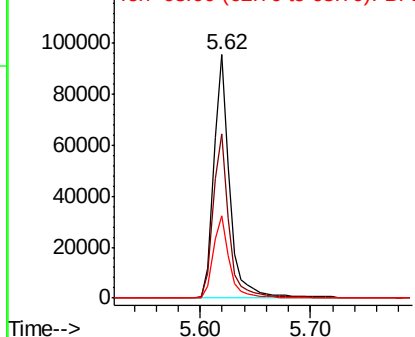
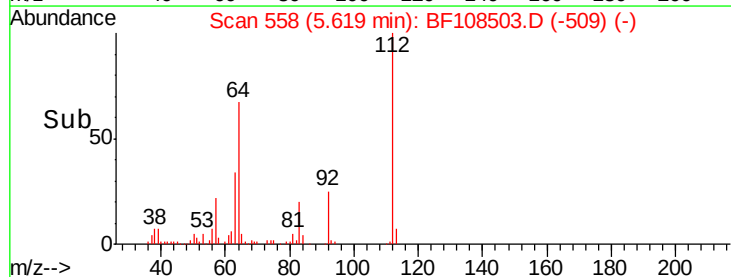


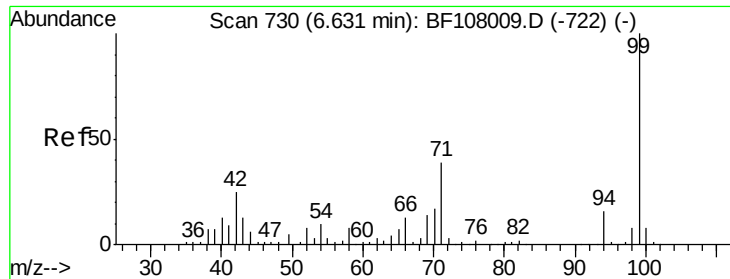
Abundance

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: 15.187 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

Instrument :

BNA\_F

ClientSampleId :

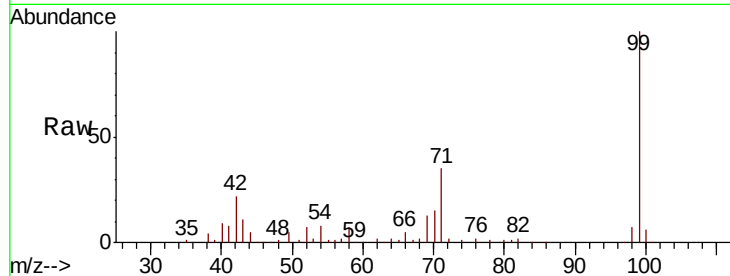
Tot Ion: 99 Resp: 133708

Ion Ratio Lower Upper

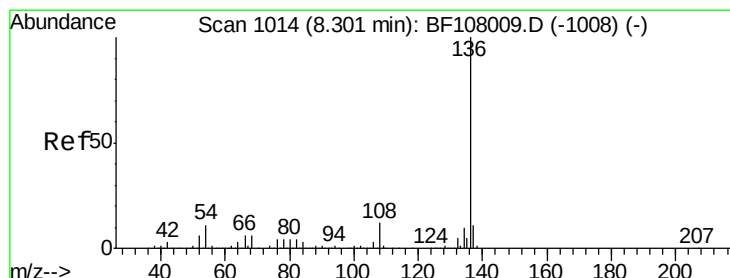
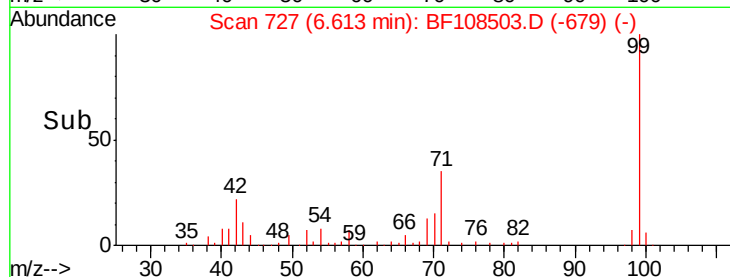
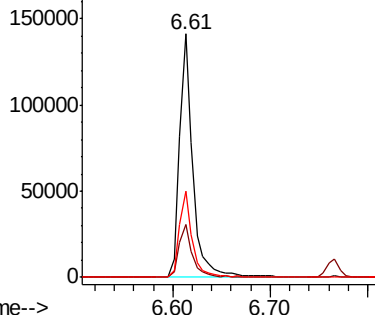
99 100

42 22.0 14.5 21.7#

71 35.4 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.28 min Scan# 1011

Delta R.T. -0.01 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

Tgt Ion: 136 Resp: 483281

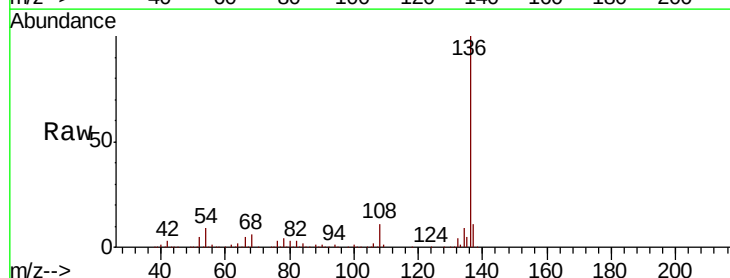
Ion Ratio Lower Upper

136 100

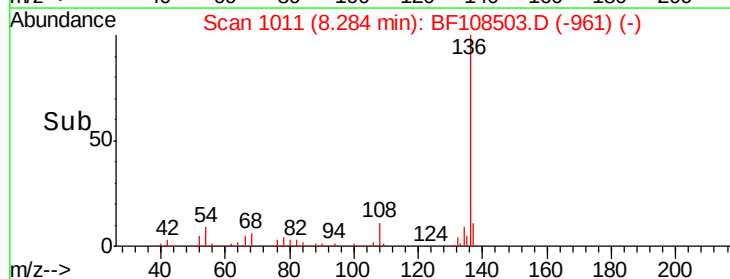
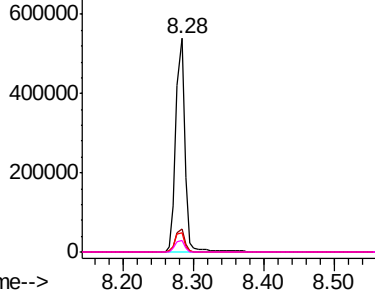
137 11.1 8.9 13.3

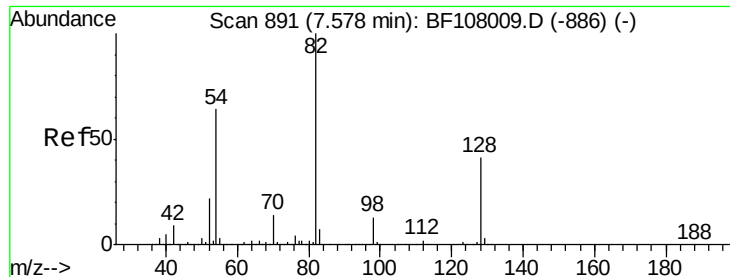
54 9.1 6.6 9.8

68 5.6 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

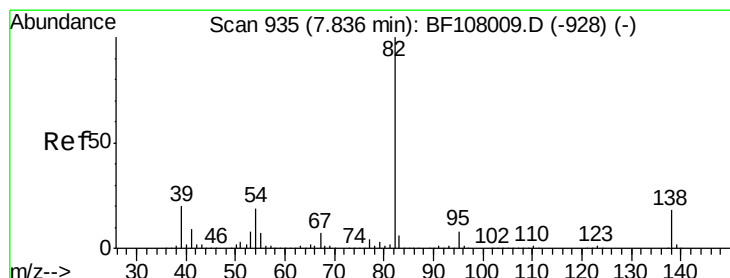
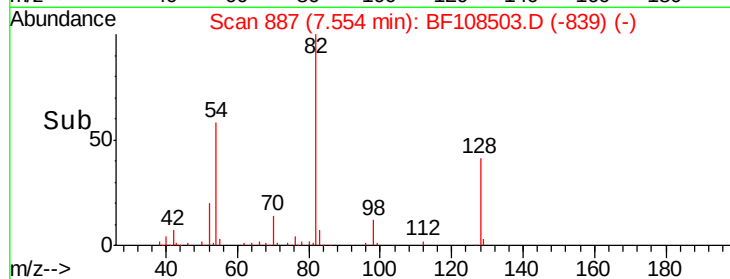
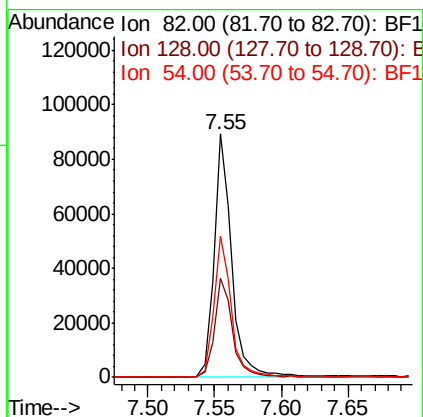
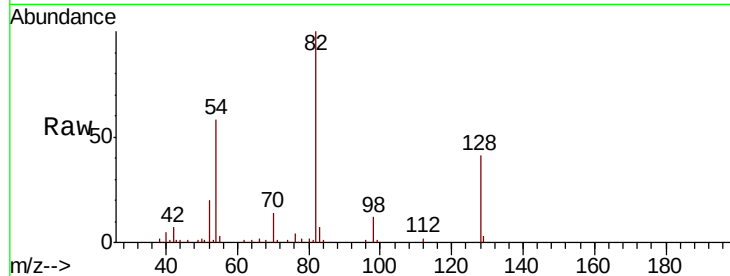




#23  
Nitrobenzene-d5  
Concen: 9.644 ng  
RT: 7.55 min Scan# 887  
Delta R.T. -0.02 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

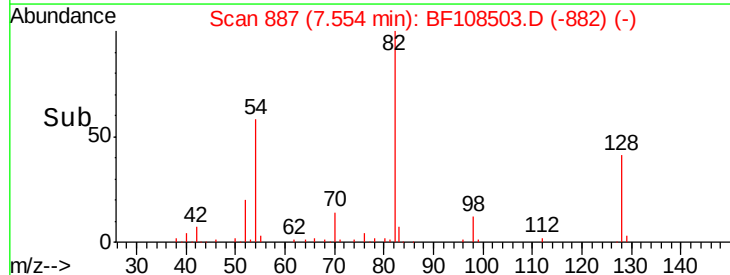
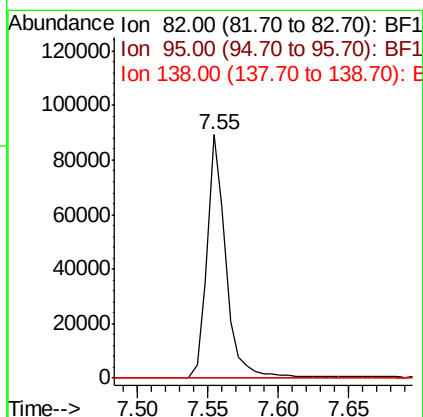
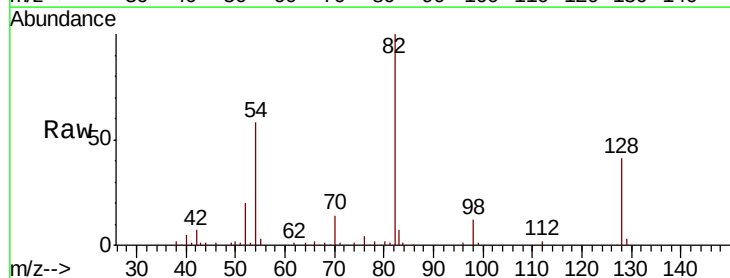
Instrument :  
BNA\_F  
ClientSampled :

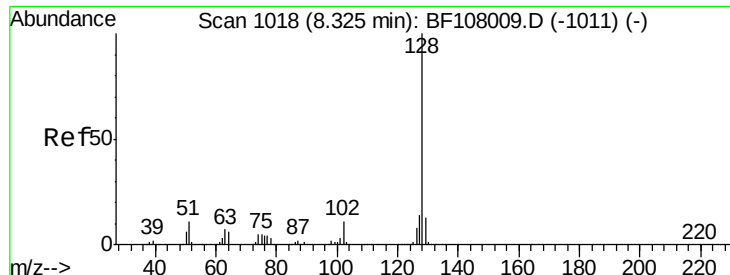
| Tot Ion   | 82    | Resp  | 83520 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 40.5  | 36.1  | 54.1  |
| 54        | 58.2  | 41.4  | 62.2  |



#25  
Isophorone  
Concen: 5.059 ng  
RT: 7.55 min Scan# 887  
Delta R.T. -0.27 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

| Tgt Ion   | 82    | Resp  | 83519 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 95        | 0.0   | 5.2   | 7.8#  |
| 138       | 0.0   | 14.9  | 22.3# |

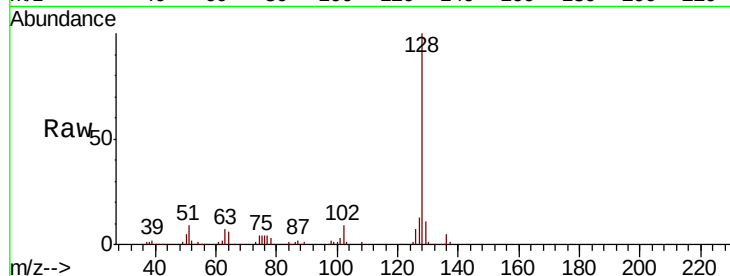




#31  
Naphthalene  
Concen: 7.144 ng  
RT: 8.30 min Scan# 1014  
Delta R.T. -0.01 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.9  | 8.8   | 13.2  |
| 127     | 13.3  | 10.9  | 16.3  |

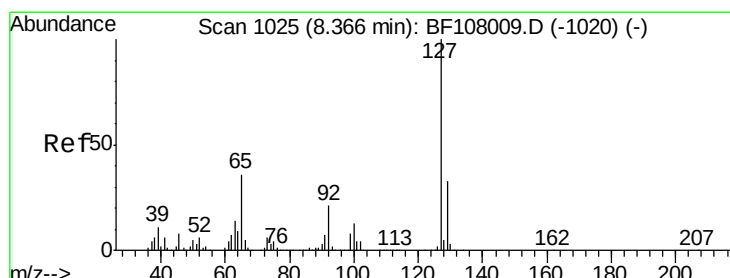
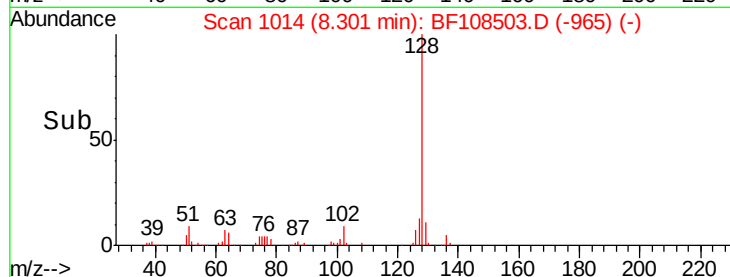
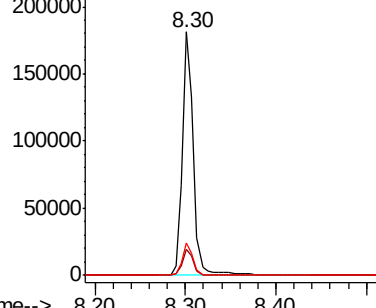


Abundance

Ion 128.00 (127.70 to 128.70): E

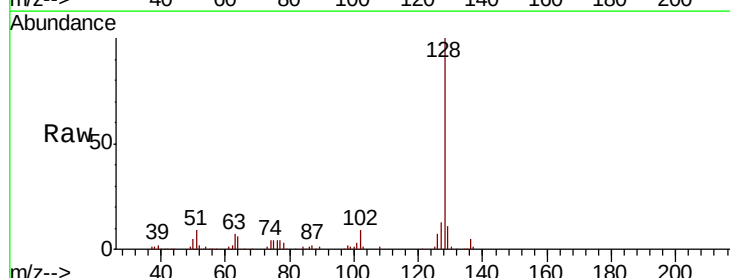
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#33  
4-Chloroaniline  
Concen: 2.044 ng  
RT: 8.30 min Scan# 1014  
Delta R.T. -0.06 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 81.9  | 25.9  | 38.9# |
| 65      | 0.0   | 25.0  | 37.4# |
| 92      | 0.0   | 15.2  | 22.8# |



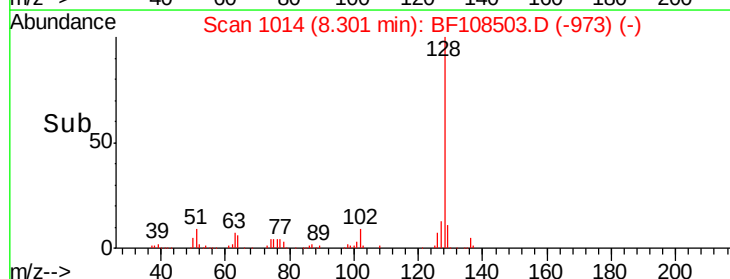
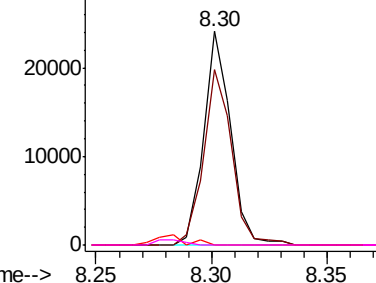
Abundance

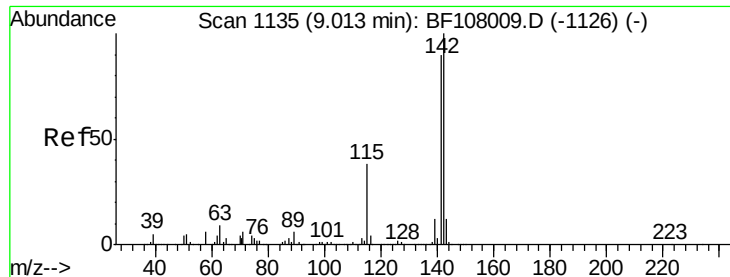
Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

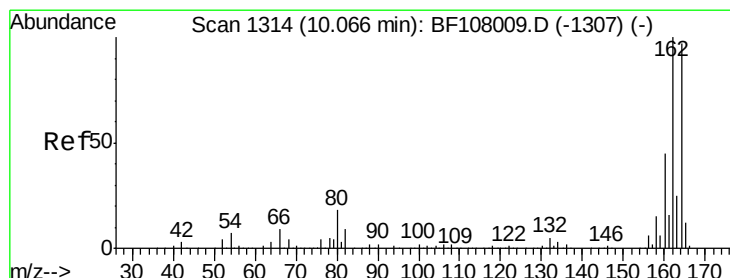
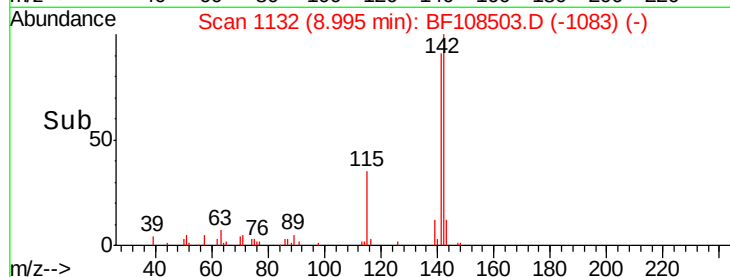
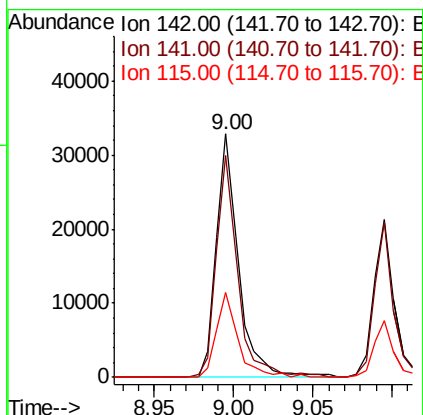
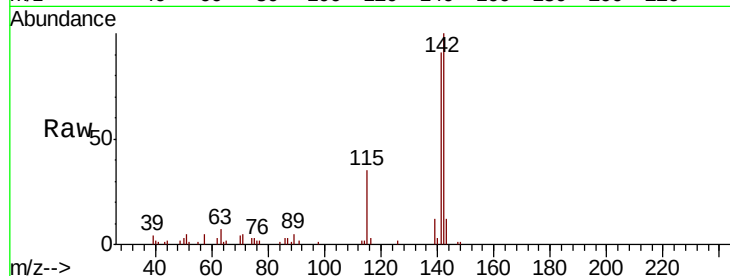




#37  
 2-Methylnaphthalene  
 Concen: 2.052 ng  
 RT: 9.00 min Scan# 1132  
 Delta R.T. -0.01 min  
 Lab File: BF108503.D  
 Acq: 27 Aug 2018 12:02

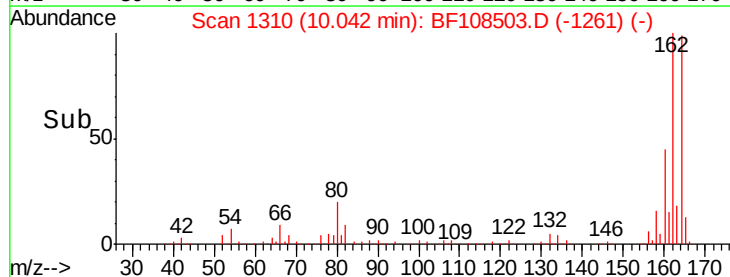
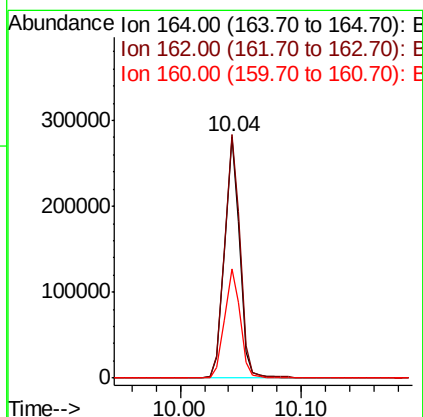
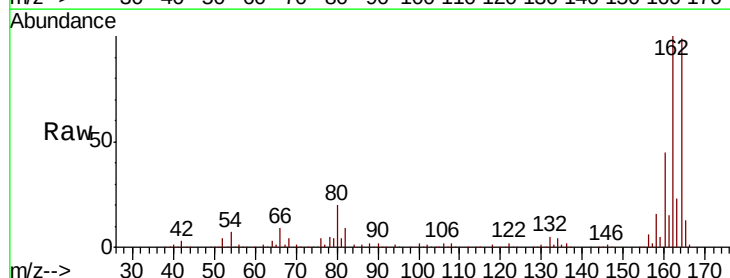
Instrument :  
 BNA\_F  
 ClientSampleId :

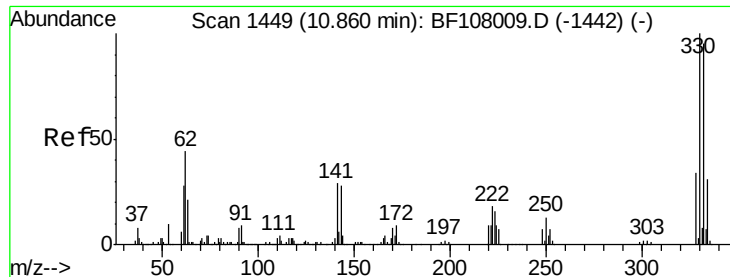
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.2  | 70.8  | 106.2 |
| 115     | 34.8  | 26.1  | 39.1  |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.04 min Scan# 1310  
 Delta R.T. -0.01 min  
 Lab File: BF108503.D  
 Acq: 27 Aug 2018 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.8 | 86.1  | 129.1 |
| 160     | 45.3  | 38.3  | 57.5  |

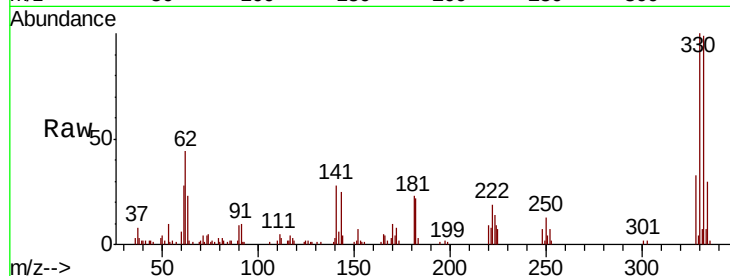




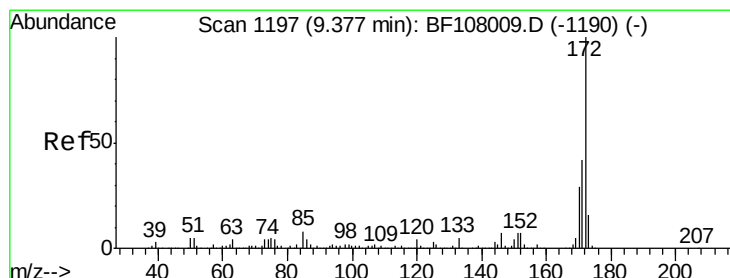
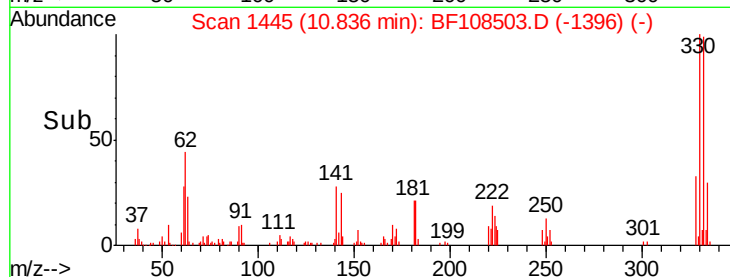
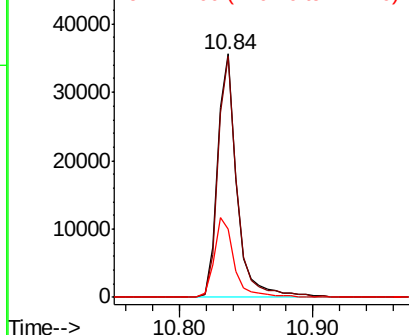
#41  
 2,4,6-Tribromophenol  
 Concen: 15.107 ng  
 RT: 10.84 min Scan# 1445  
 Delta R.T. -0.01 min  
 Lab File: BF108503.D  
 Acq: 27 Aug 2018 12:02

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 36442  
 Ion Ratio Lower Upper  
 330 100  
 332 97.3 77.0 115.6  
 141 34.1 29.9 44.9

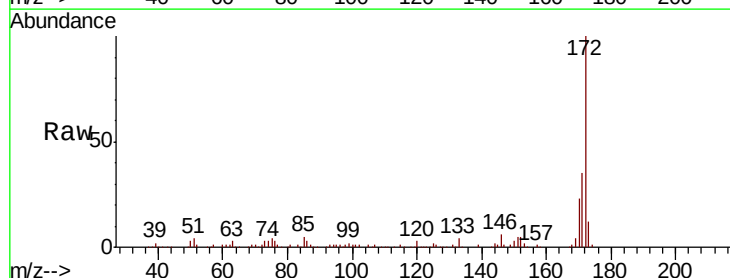


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

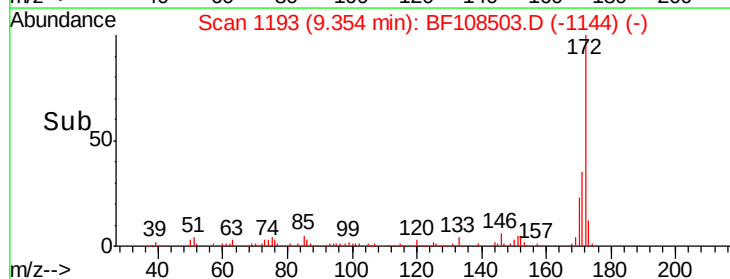
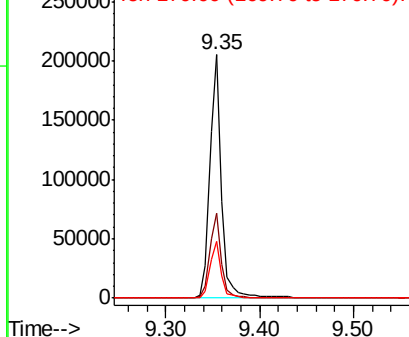


#44  
 2-Fluorobiphenyl  
 Concen: 11.879 ng  
 RT: 9.35 min Scan# 1193  
 Delta R.T. -0.01 min  
 Lab File: BF108503.D  
 Acq: 27 Aug 2018 12:02

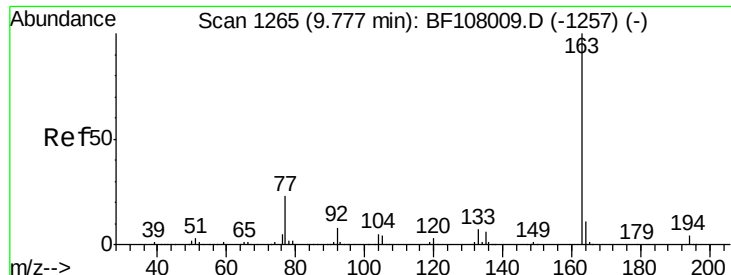
Tgt Ion:172 Resp: 178945  
 Ion Ratio Lower Upper  
 172 100  
 171 35.1 29.7 44.5  
 170 23.1 19.6 29.4



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



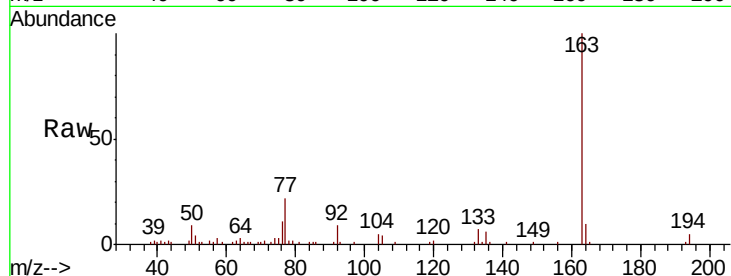




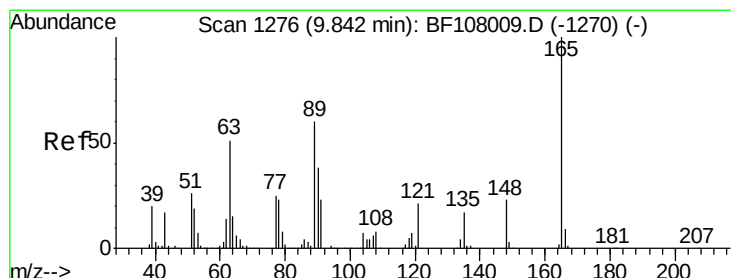
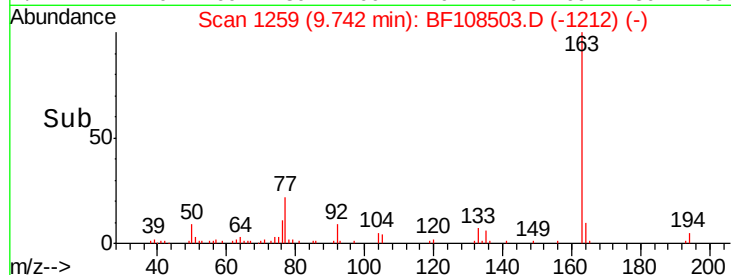
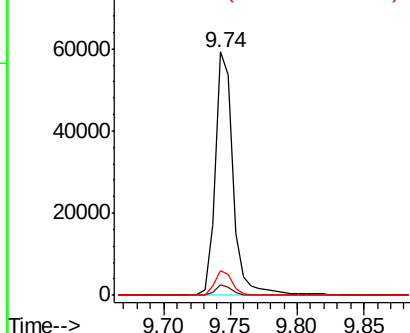
#49  
Dimethylphthalate  
Concen: 3.356 ng  
RT: 9.74 min Scan# 1259  
Delta R.T. -0.02 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.6   | 2.7   | 4.1#  |
| 164     | 10.2  | 8.2   | 12.2  |

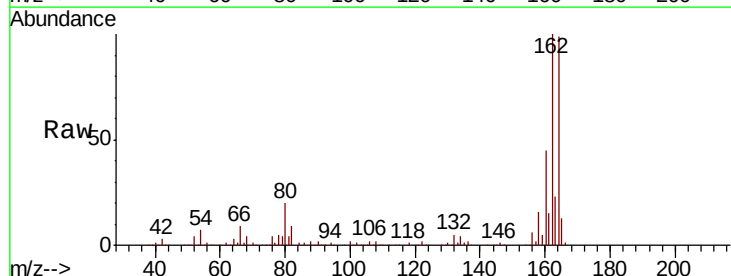


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

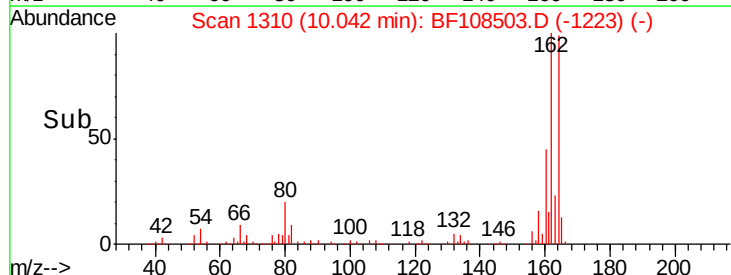
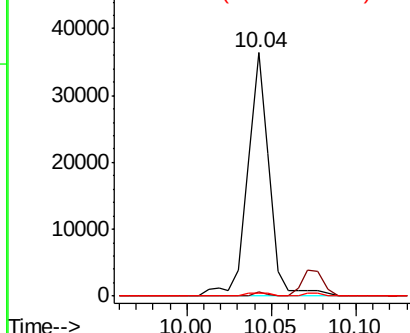


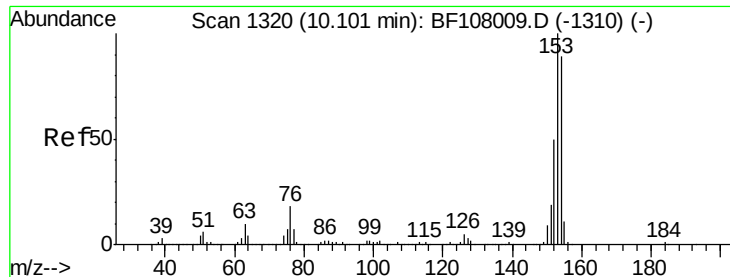
#50  
2,6-Dinitrotoluene  
Concen: 9.280 ng  
RT: 10.04 min Scan# 1310  
Delta R.T. 0.21 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 44.7  | 67.1# |
| 89      | 1.2   | 44.0  | 66.0# |



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





#51

Acenaphthene

Concen: 2.907 ng

RT: 10.08 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

Instrument :

BNA\_F

ClientSampleId :

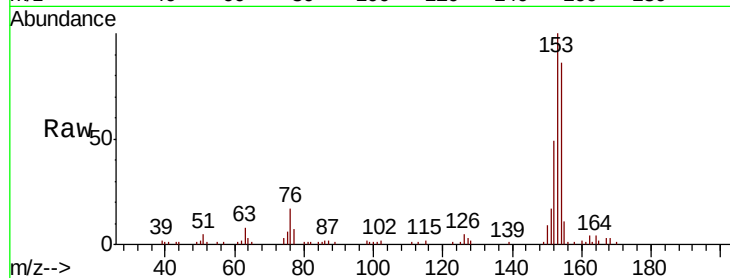
Tot Ion:154 Resp: 39670

Ion Ratio Lower Upper

154 100

153 115.7 91.2 136.8

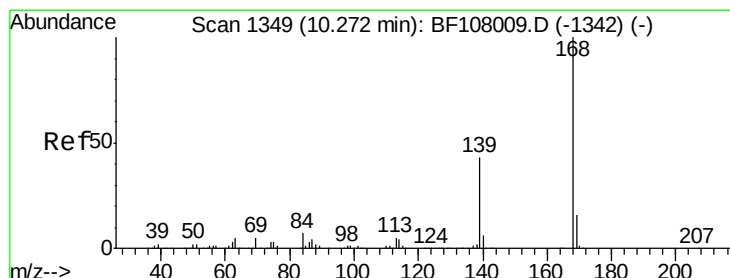
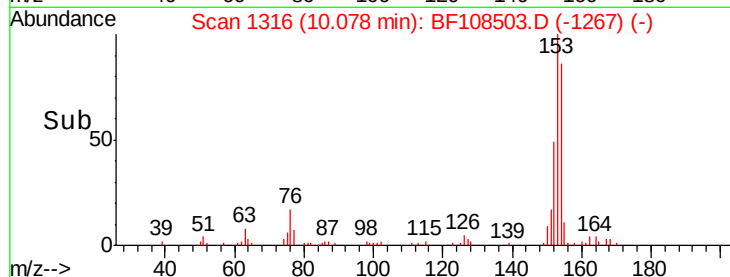
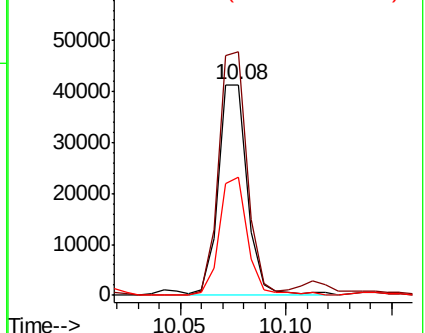
152 56.4 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.500 ng

RT: 10.25 min Scan# 1345

Delta R.T. -0.01 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

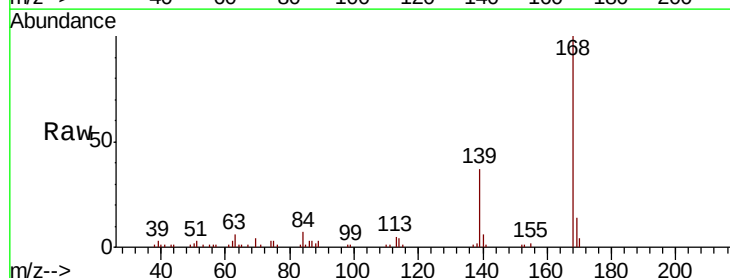
Tgt Ion:168 Resp: 49431

Ion Ratio Lower Upper

168 100

139 37.0 30.1 45.1

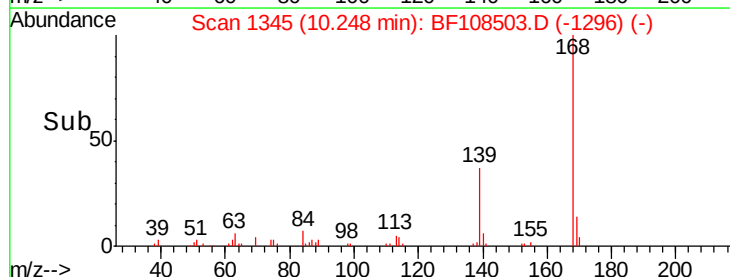
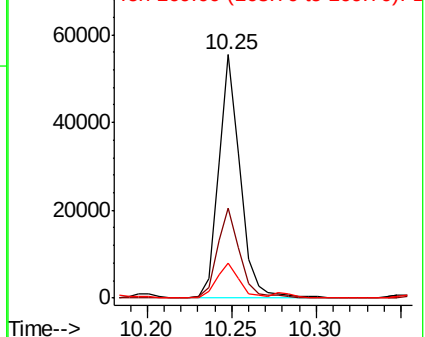
169 14.4 10.9 16.3

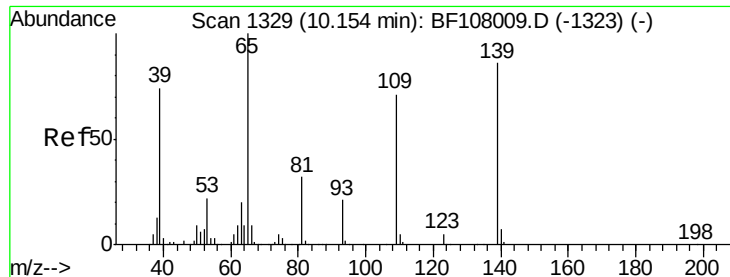


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

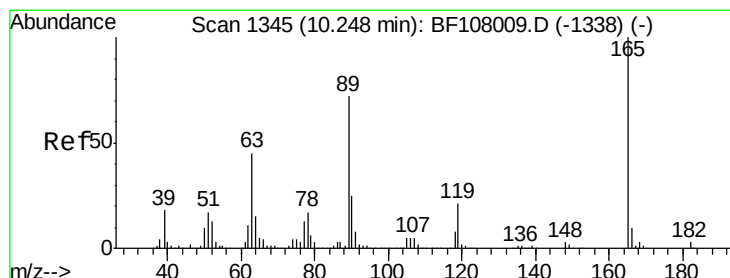
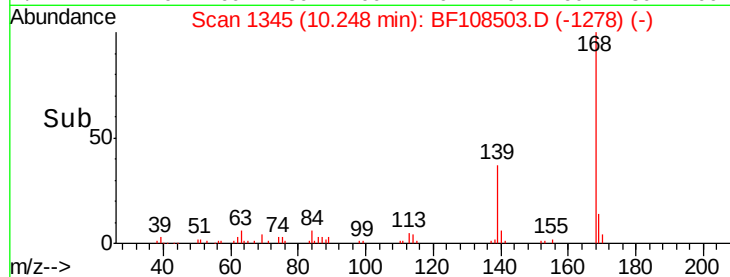
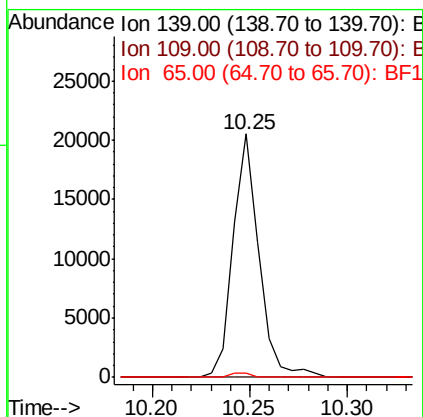
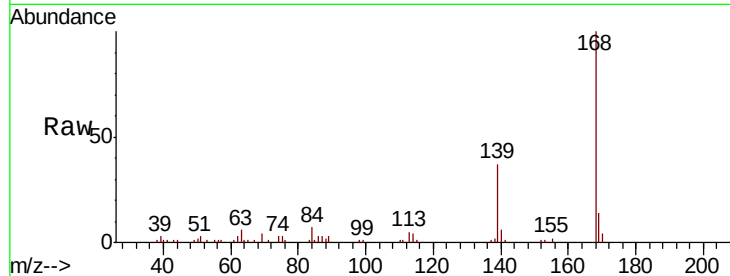




#55  
4-Nitrophenol  
Concen: 6.479 ng  
RT: 10.25 min Scan# 1345  
Delta R.T. 0.09 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

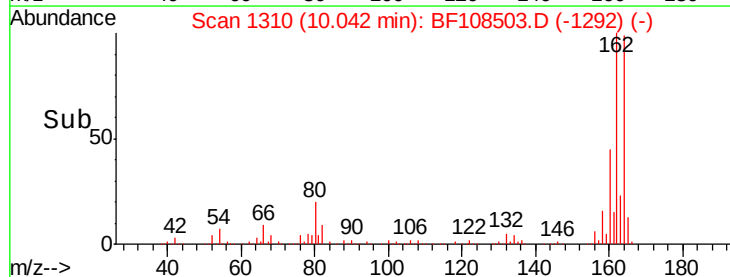
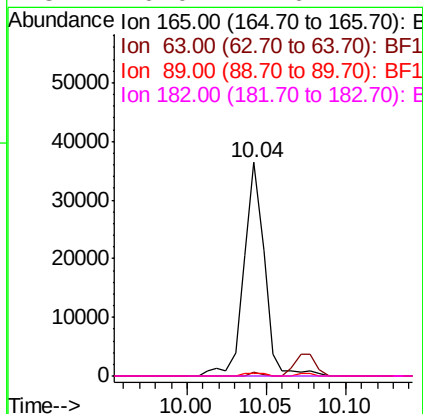
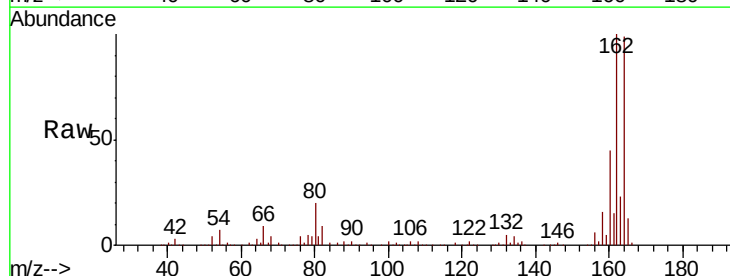
Instrument :  
BNA\_F  
ClientSampleId :

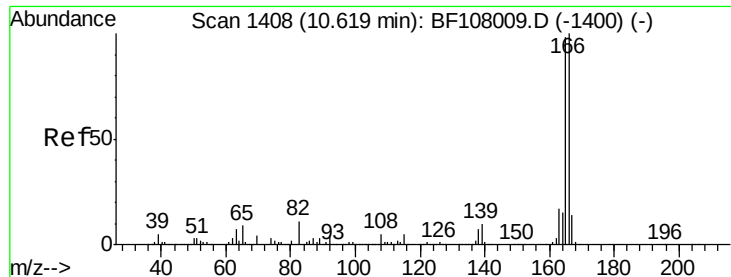
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 0.0   | 48.4  | 88.4#  |
| 65      | 2.0   | 72.6  | 112.6# |



#56  
2,4-Dinitrotoluene  
Concen: 7.208 ng  
RT: 10.04 min Scan# 1310  
Delta R.T. -0.19 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 36.4  | 54.6# |
| 89      | 1.2   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

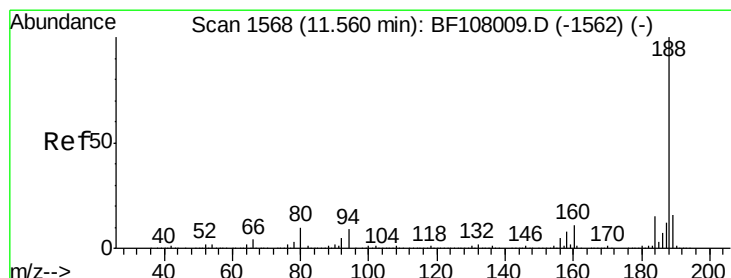
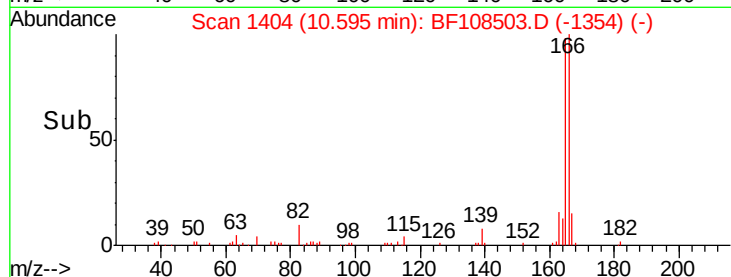
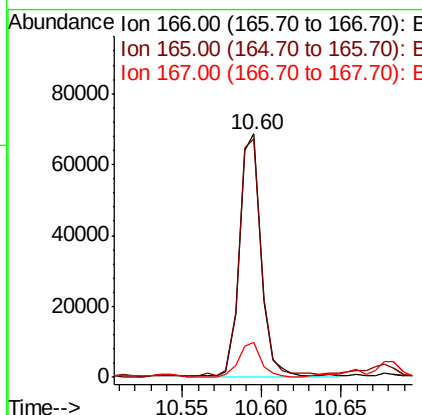
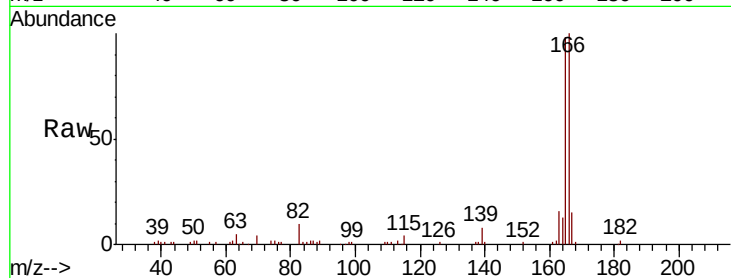




#57  
 Fluorene  
 Concen: 4.206 ng  
 RT: 10.60 min Scan# 1404  
 Delta R.T. -0.01 min  
 Lab File: BF108503.D  
 Acq: 27 Aug 2018 12:02

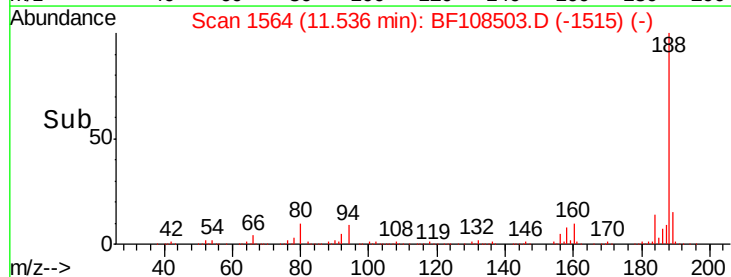
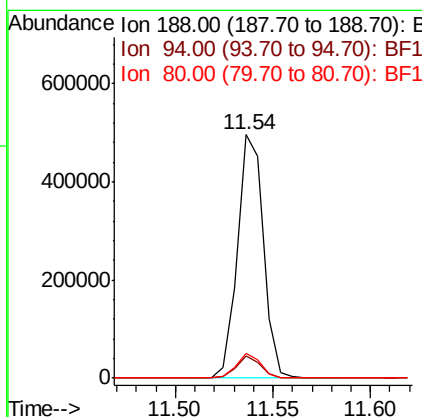
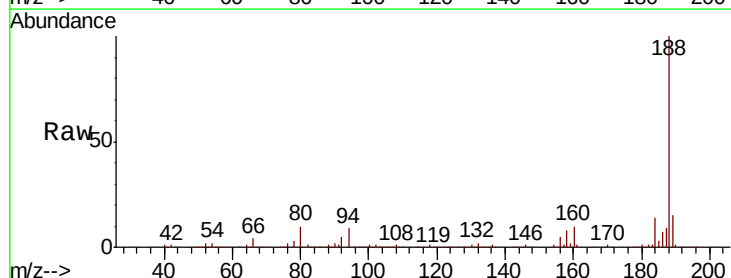
Instrument :  
 BNA\_F  
 ClientSampleId :

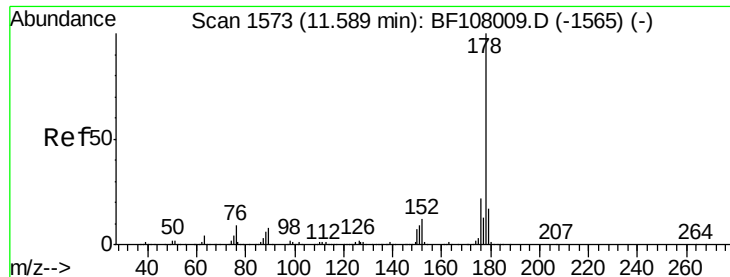
Tot Ion:166 Resp: 65827  
 Ion Ratio Lower Upper  
 166 100  
 165 97.9 79.8 119.8  
 167 14.5 10.6 16.0



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.54 min Scan# 1564  
 Delta R.T. -0.01 min  
 Lab File: BF108503.D  
 Acq: 27 Aug 2018 12:02

Tgt Ion:188 Resp: 457754  
 Ion Ratio Lower Upper  
 188 100  
 94 9.1 8.5 12.7  
 80 10.1 9.2 13.8





#70

Phenanthrene

Concen: 18.630 ng

RT: 11.57 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

Instrument :

BNA\_F

ClientSampled :

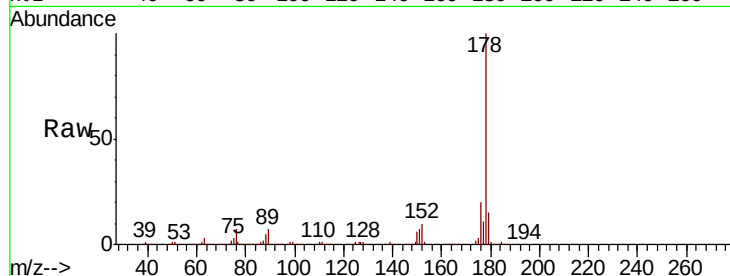
Tot Ion:178 Resp: 402243

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

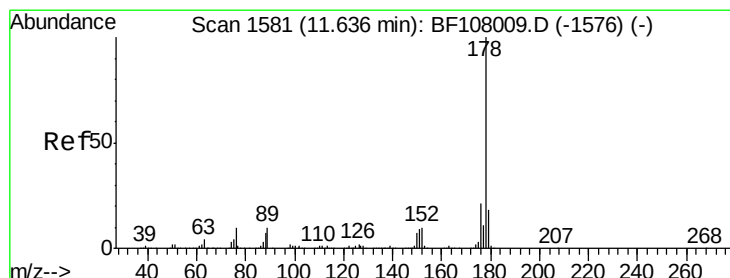
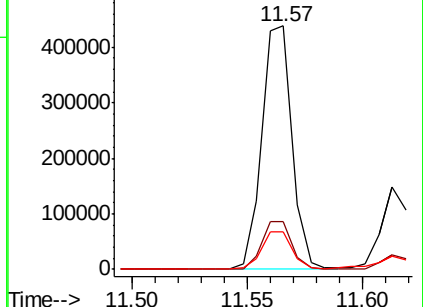
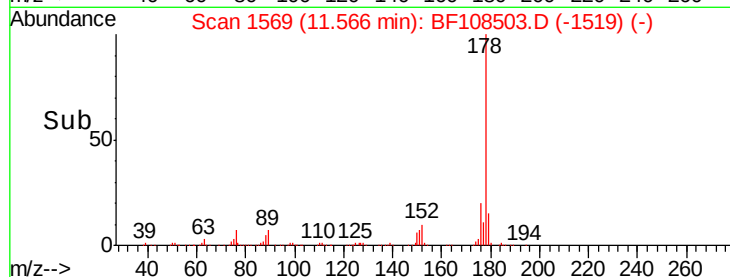
179 15.4 13.0 19.6



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: 5.893 ng

RT: 11.61 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

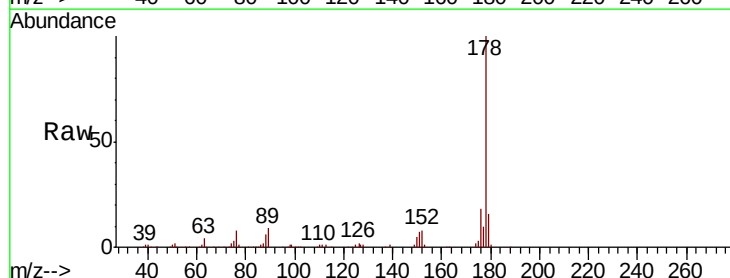
Tgt Ion:178 Resp: 130413

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.2

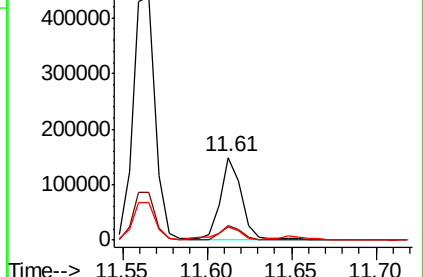
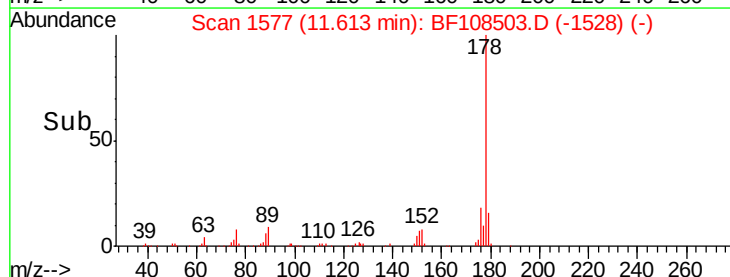
179 16.3 12.6 19.0

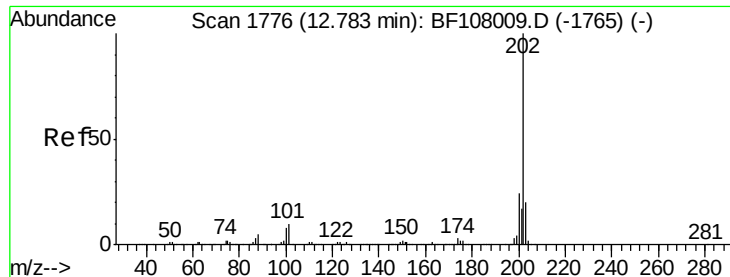


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 15.540 ng

RT: 12.76 min Scan# 1772

Delta R.T. -0.01 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

Instrument :

BNA\_F

ClientSampled :

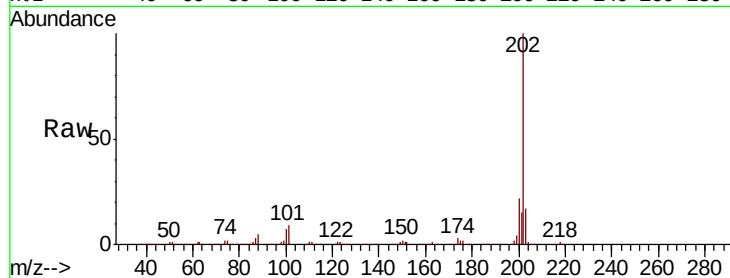
Tot Ion:202 Resp: 366186

Ion Ratio Lower Upper

202 100

101 9.4 0.0 34.1

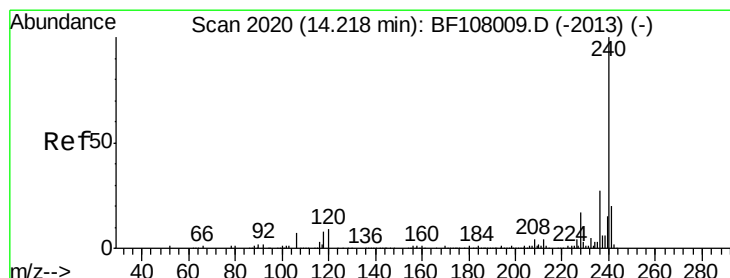
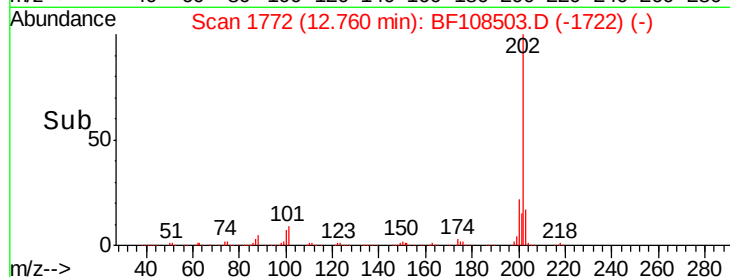
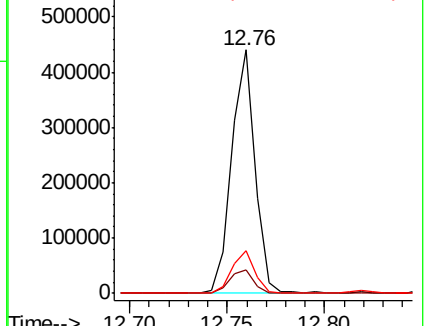
203 17.3 0.0 38.1



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: 14.19 min Scan# 2016

Delta R.T. -0.01 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

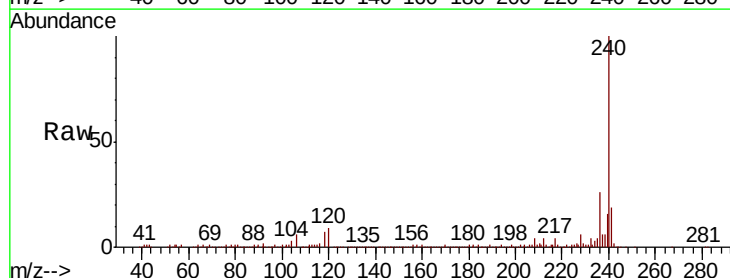
Tgt Ion:240 Resp: 299262

Ion Ratio Lower Upper

240 100

120 8.8 9.5 14.3#

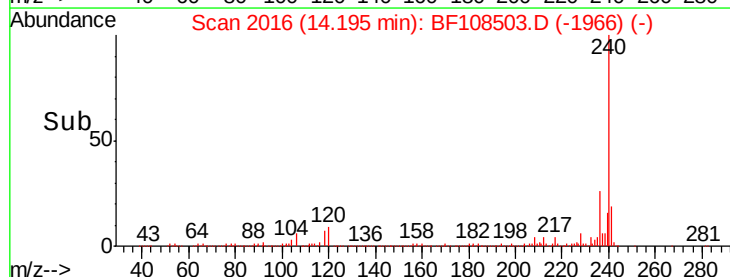
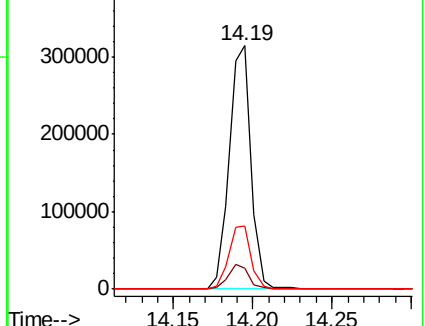
236 26.1 20.7 31.1

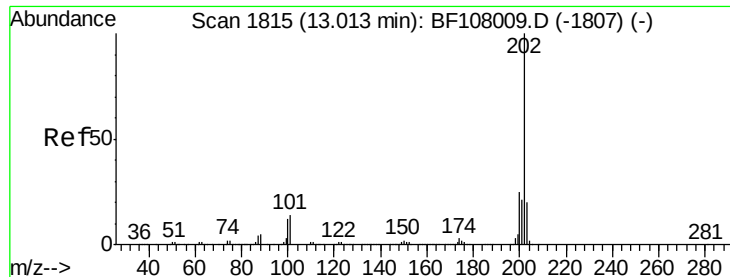


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 16.200 ng

RT: 12.99 min Scan# 1811

Delta R.T. -0.01 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

Instrument :

BNA\_F

ClientSampleId :

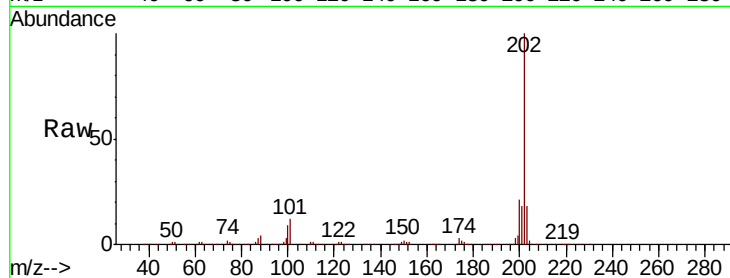
Tot Ion:202 Resp: 306933

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

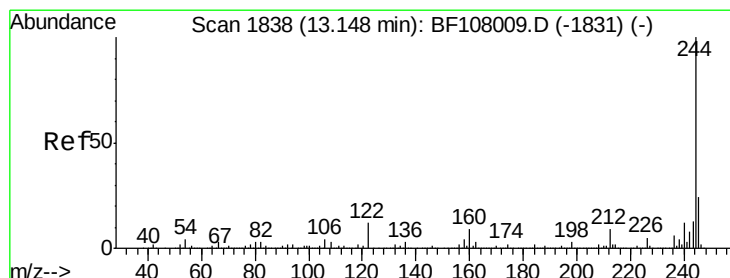
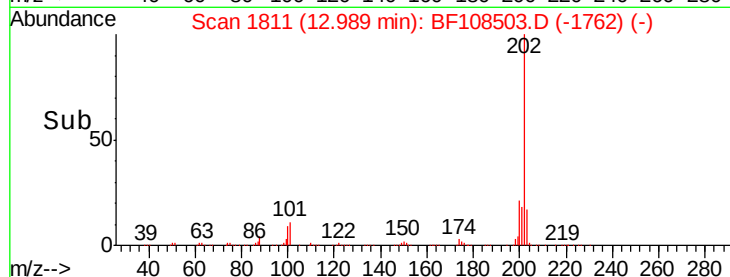
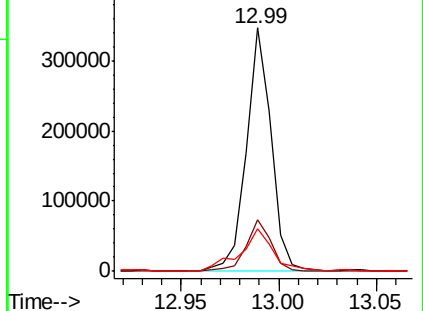
203 17.6 14.3 21.5



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: 12.515 ng

RT: 13.12 min Scan# 1833

Delta R.T. -0.01 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

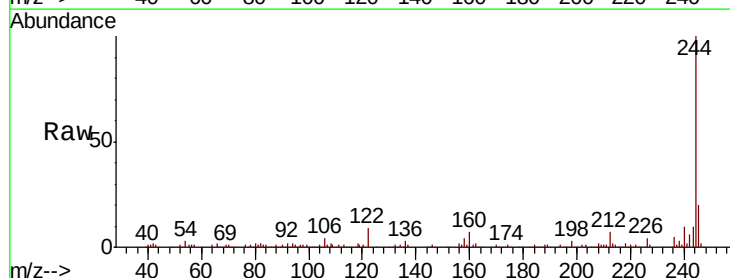
Tgt Ion:244 Resp: 147298

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

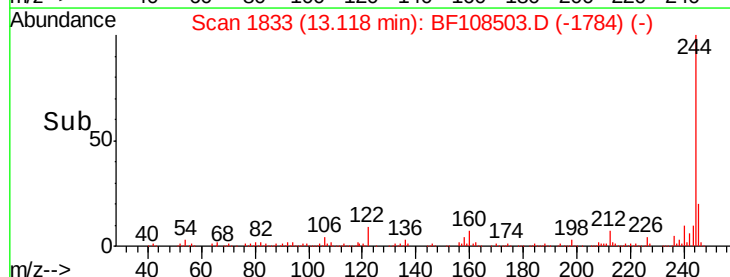
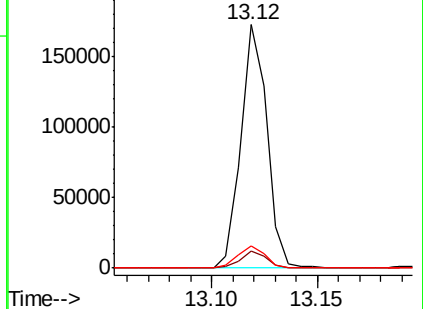
122 9.1 11.0 16.4#

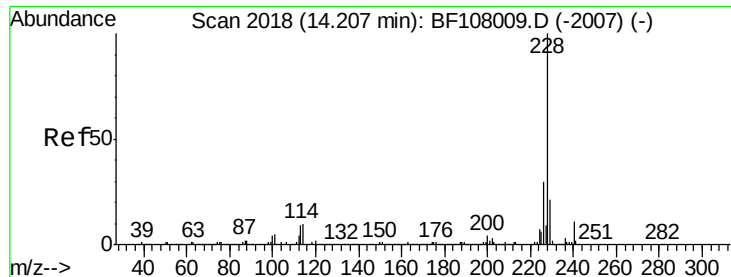


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

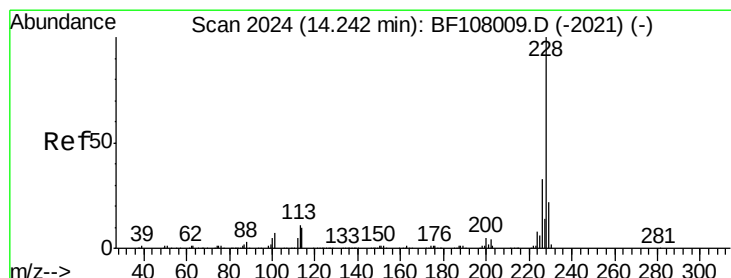
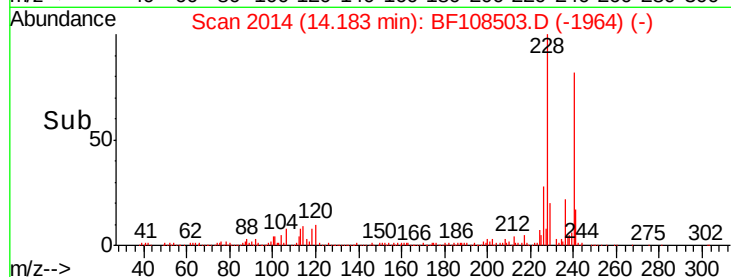
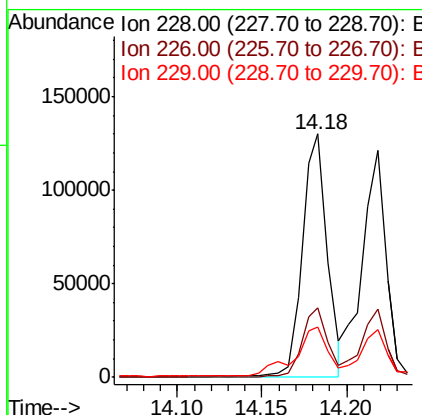
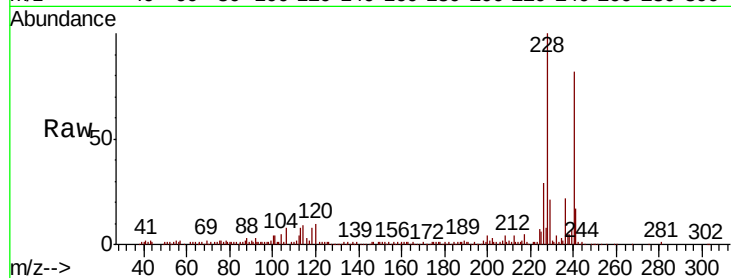




#80  
Benzo(a)anthracene  
Concen: 7.757 ng  
RT: 14.18 min Scan# 2014  
Delta R.T. -0.01 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

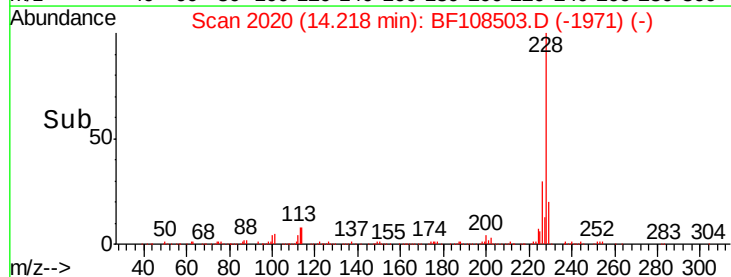
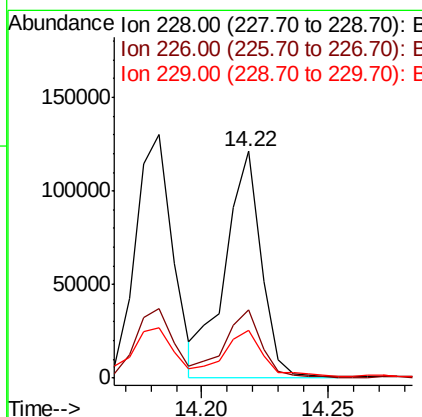
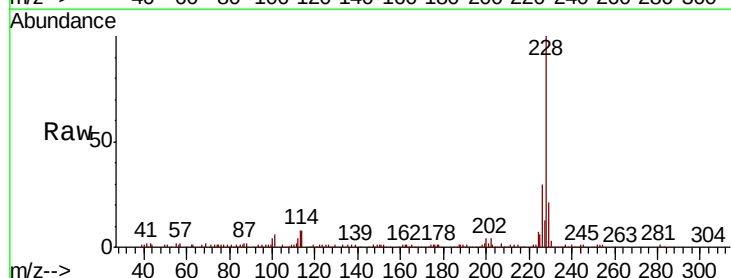
Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.6  | 22.6  | 33.8  |
| 229     | 20.6  | 15.8  | 23.6  |

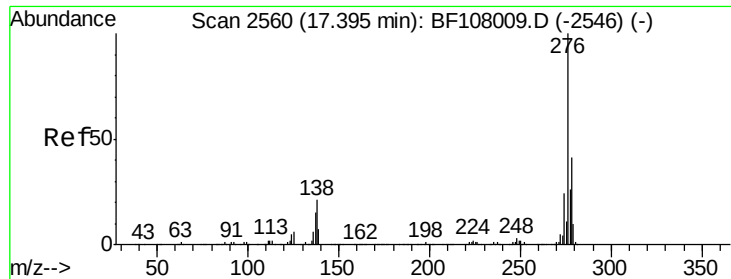


#82  
Chrysene  
Concen: 7.592 ng  
RT: 14.22 min Scan# 2020  
Delta R.T. -0.01 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.0  | 25.0  | 37.6  |
| 229     | 21.0  | 16.2  | 24.4  |



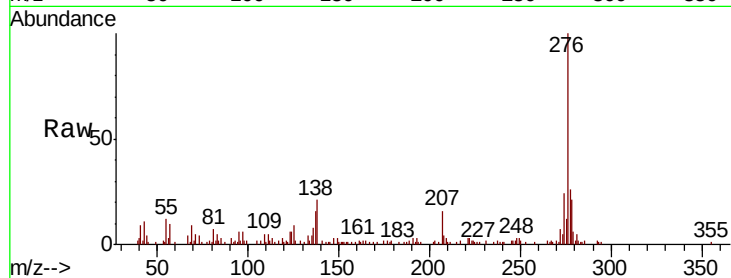




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.304 ng  
 RT: 17.35 min Scan# 2553  
 Delta R.T. -0.02 min  
 Lab File: BF108503.D  
 Acq: 27 Aug 2018 12:02

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.8  | 25.0  | 37.6# |
| 277     | 28.3  | 20.1  | 30.1  |

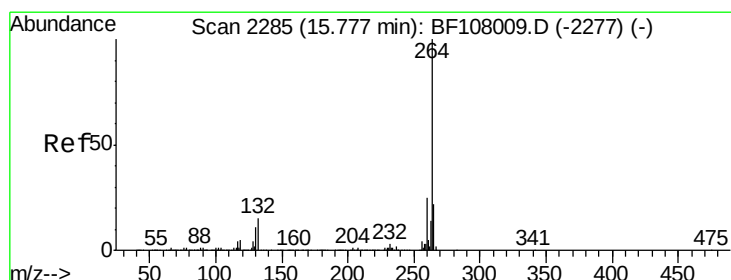
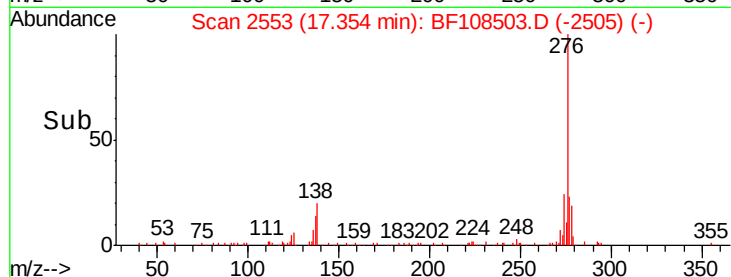
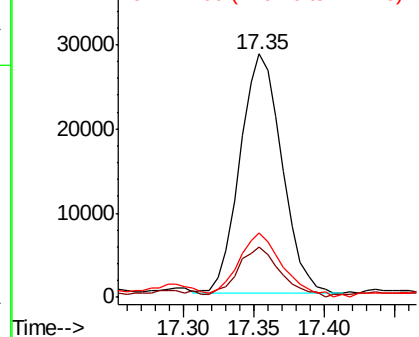


Abundance

Ion 276.00 (275.70 to 276.70): E

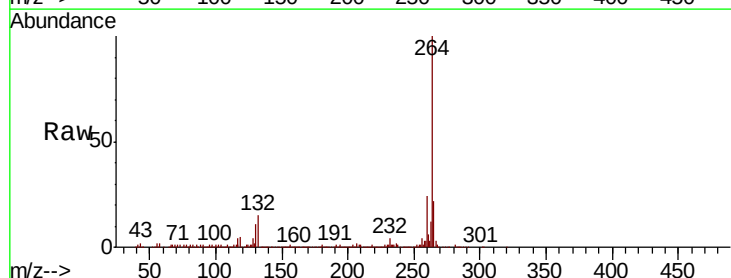
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.75 min Scan# 2280  
 Delta R.T. -0.01 min  
 Lab File: BF108503.D  
 Acq: 27 Aug 2018 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.2  | 28.8  |
| 265     | 21.9  | 17.5  | 26.3  |

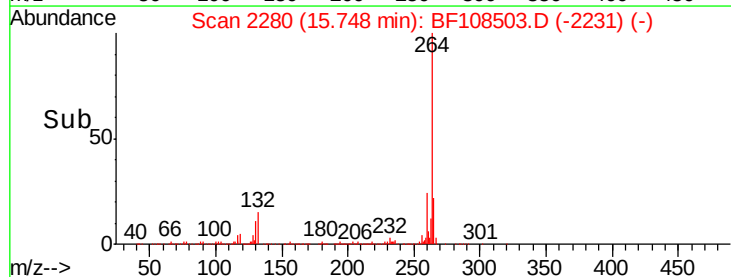
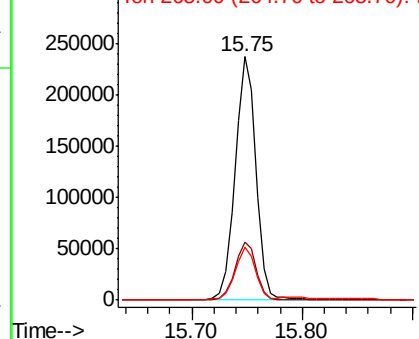


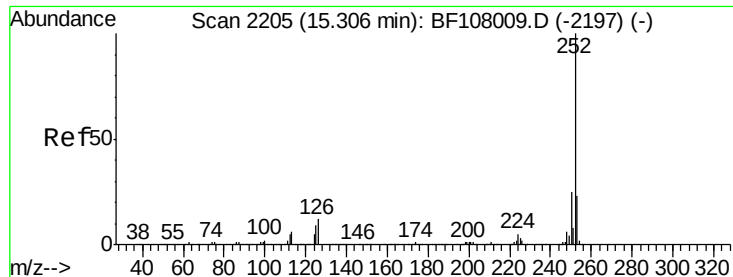
Abundance

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

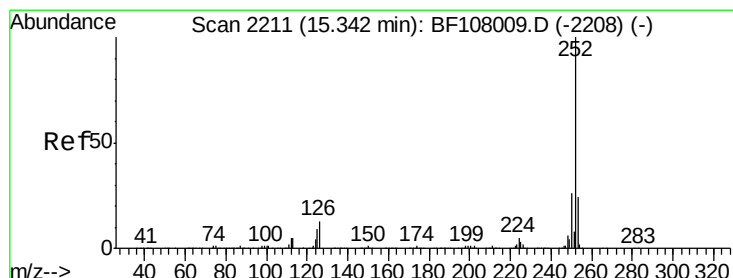
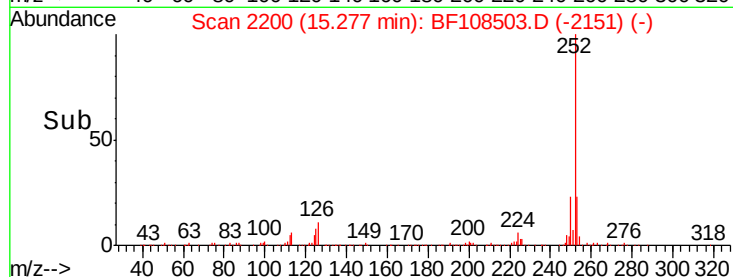
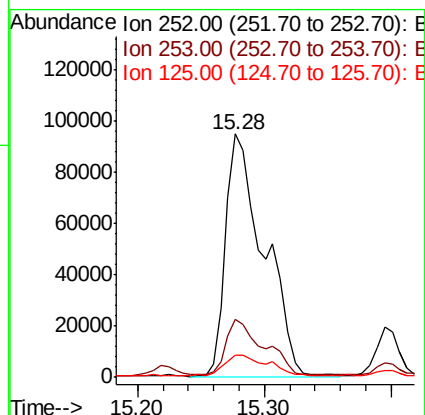
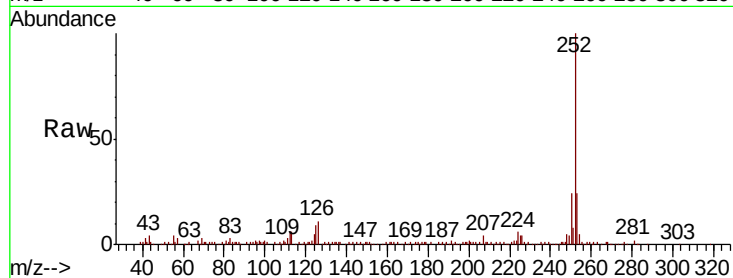




#87  
Benzo(b)fluoranthene  
Concen: 10.571 ng  
RT: 15.28 min Scan# 2200  
Delta R.T. -0.01 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

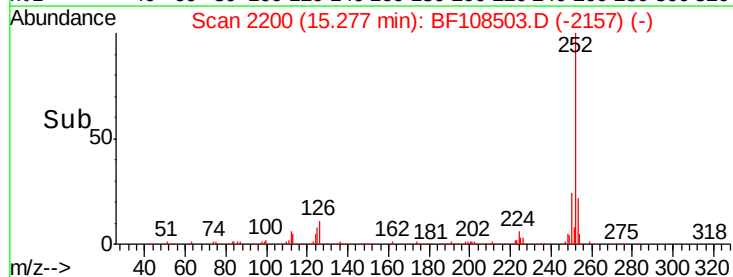
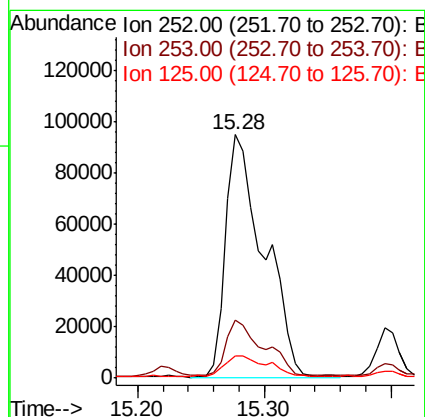
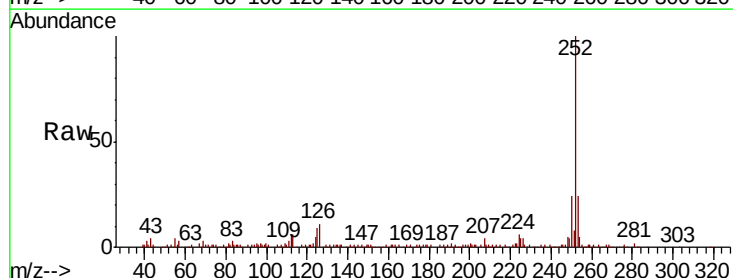
Instrument :  
BNA\_F  
ClientSampleId :

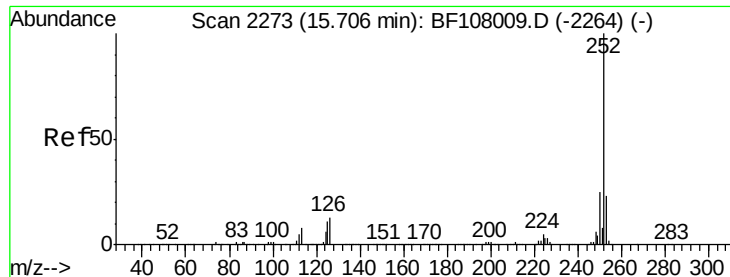
Tot Ion:252 Resp: 198682  
Ion Ratio Lower Upper  
252 100  
253 24.1 17.0 25.6  
125 9.2 9.0 13.6



#88  
Benzo(k)fluoranthene  
Concen: 11.500 ng  
RT: 15.28 min Scan# 2200  
Delta R.T. -0.05 min  
Lab File: BF108503.D  
Acq: 27 Aug 2018 12:02

Tgt Ion:252 Resp: 198682  
Ion Ratio Lower Upper  
252 100  
253 24.1 17.9 26.9  
125 9.2 10.2 15.2#





#89

Benzo(a)pyrene

Concen: 6.596 ng

RT: 15.68 min Scan# 2268

Delta R.T. -0.01 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

Instrument :

BNA\_F

ClientSampled :

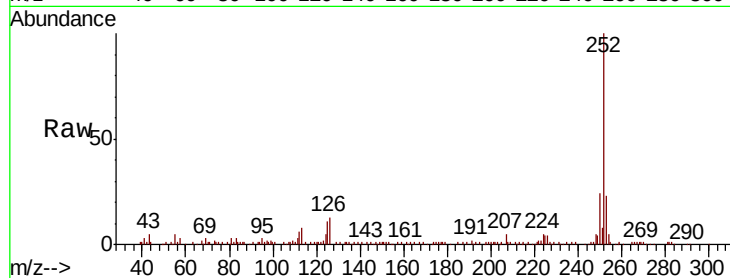
Tot Ion:252 Resp: 111016

Ion Ratio Lower Upper

252 100

253 23.1 17.1 25.7

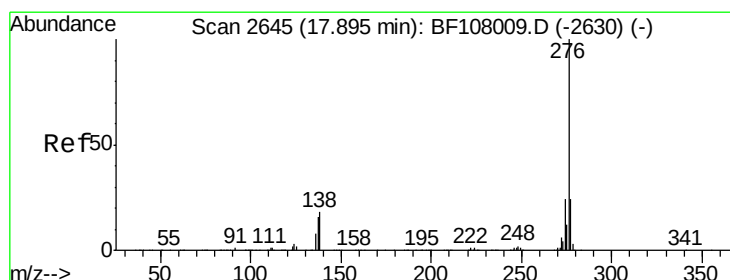
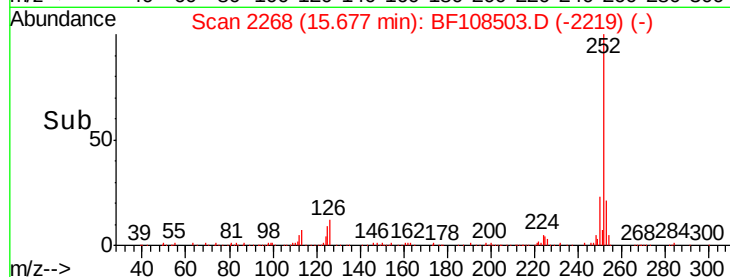
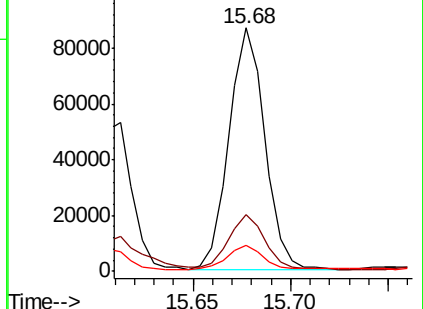
125 10.6 9.8 14.6



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



#91

Benzo(g,h,i)perylene

Concen: 3.946 ng

RT: 17.85 min Scan# 2637

Delta R.T. -0.02 min

Lab File: BF108503.D

Acq: 27 Aug 2018 12:02

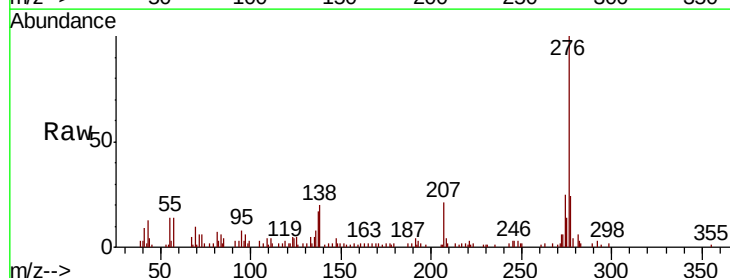
Tgt Ion:276 Resp: 54101

Ion Ratio Lower Upper

276 100

277 24.3 17.9 26.9

138 19.8 21.8 32.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

