

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\  
 Data File : BF108294.D  
 Acq On : 20 Aug 2018 17:10  
 Operator : JU/SJ  
 Sample : J4521-10  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11975

Quant Time: Aug 20 18:26:37 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 | 7.01  | 152  | 188000   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.30  | 136  | 702564   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.06 | 164  | 322540   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.56 | 188  | 520249   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.22 | 240  | 360649   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.79 | 264  | 330330   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.64  | 112  | 809438   | 77.95 | ng    | 0.01     |
| 7) Phenol-d6                | 6.64  | 99   | 1074510  | 77.87 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.58  | 82   | 700344   | 55.63 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.85 | 330  | 235883   | 73.32 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.37  | 172  | 1214028  | 60.43 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.14 | 244  | 940960   | 66.34 | ng    | 0.00     |

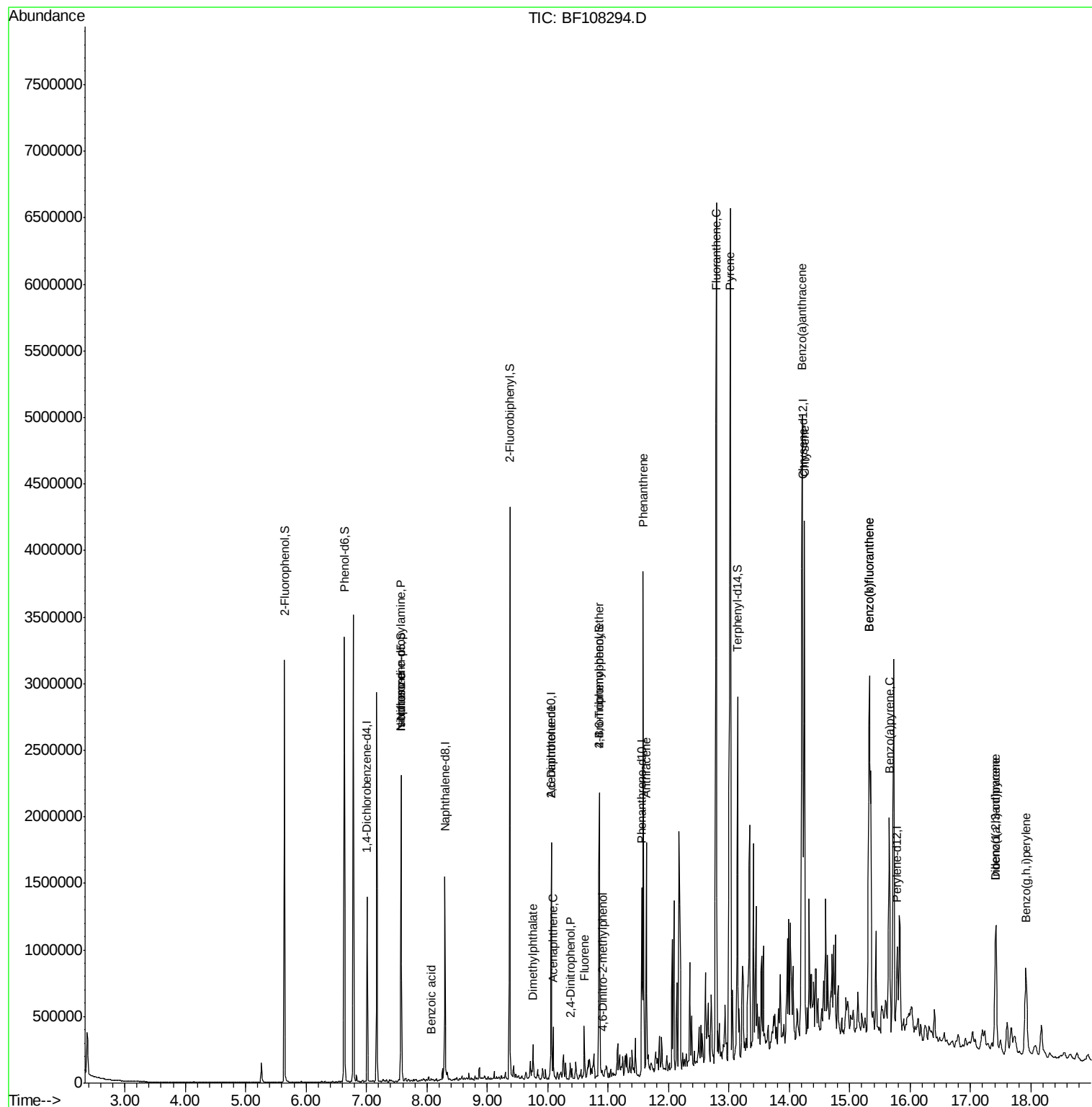
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units | Qvalue |
|--------------------------------|-------|------|----------|---------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.58  | 70   | 94910    | 10.171  | ng    | # 82   |
| 25) Isophorone                 | 7.58  | 82   | 696750   | 29.034  | ng    | # 64   |
| 32) Benzoic acid               | 8.07  | 122  | 109      | 5.990   | ng    | # 1    |
| 49) Dimethylphthalate          | 9.76  | 163  | 71126    | 3.166   | ng    | # 98   |
| 50) 2,6-Dinitrotoluene         | 10.06 | 165  | 43351    | 9.222   | ng    | # 26   |
| 51) Acenaphthene               | 10.09 | 154  | 74904    | 4.116   | ng    | 94     |
| 53) 2,4-Dinitrophenol          | 10.38 | 184  | 111      | 7.078   | ng    | # 1    |
| 57) Fluorene                   | 10.61 | 166  | 109359   | 5.239   | ng    | 100    |
| 64) 4,6-Dinitro-2-methylphenol | 10.92 | 198  | 657      | 5.657   | ng    | 90     |
| 66) 4-Bromophenyl-phenylether  | 10.85 | 248  | 15643    | 2.767   | ng    | # 1    |
| 70) Phenanthrene               | 11.59 | 178  | 1510869  | 61.572  | ng    | 99     |
| 71) Anthracene                 | 11.64 | 178  | 639627   | 25.432  | ng    | 99     |
| 74) Fluoranthene               | 12.79 | 202  | 3392903  | 126.693 | ng    | 94     |
| 77) Pyrene                     | 13.02 | 202  | 3258481  | 142.710 | ng    | 93     |
| 80) Benzo(a)anthracene         | 14.21 | 228  | 2058631  | 99.462  | ng    | 96     |
| 82) Chrysene                   | 14.25 | 228  | 1551695  | 81.774  | ng    | 97     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.42 | 276  | 701103   | 42.643  | ng    | # 88   |
| 87) Benzo(b)fluoranthene       | 15.32 | 252  | 2730830  | 138.350 | ng    | 95     |
| 88) Benzo(k)fluoranthene       | 15.32 | 252  | 2730830  | 150.504 | ng    | # 96   |
| 89) Benzo(a)pyrene             | 15.65 | 252  | 931474   | 52.699  | ng    | 96     |
| 90) Dibenzo(a,h)anthracene     | 17.42 | 278  | 197609   | 13.512  | ng    | 93     |
| 91) Benzo(g,h,i)perylene       | 17.92 | 276  | 616429   | 42.806  | ng    | # 89   |

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

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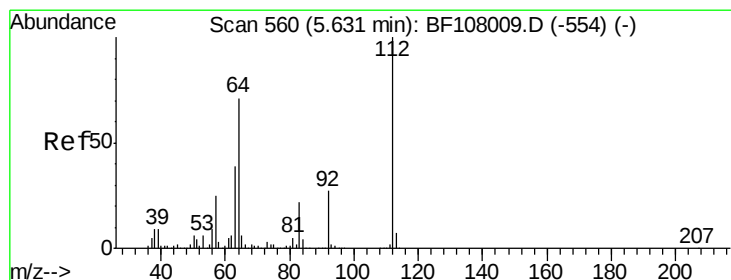
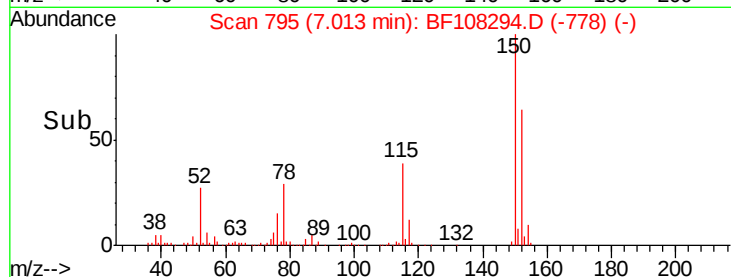
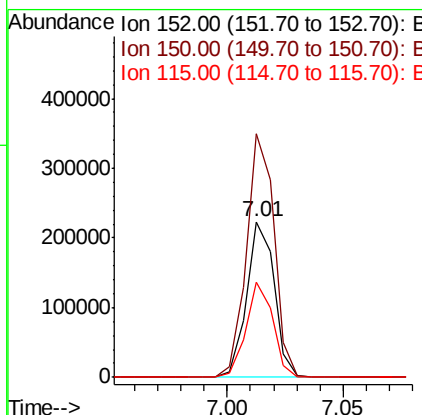
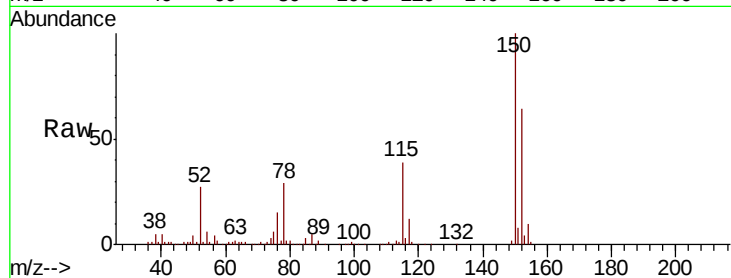


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.01 min Scan# 795  
Delta R.T. -0.00 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

Instrument :  
BNA\_F  
ClientSampleId :  
72-11975

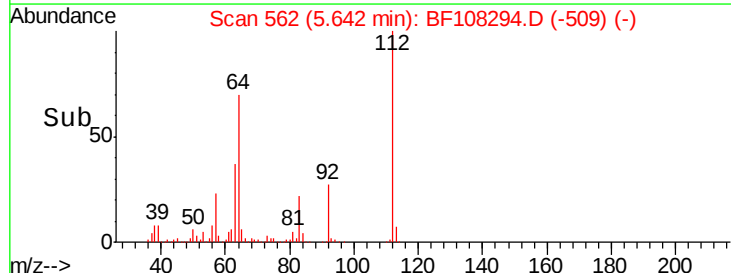
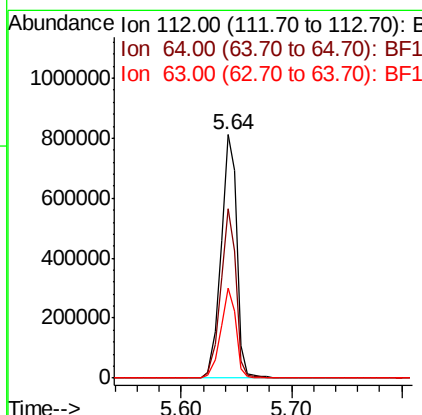
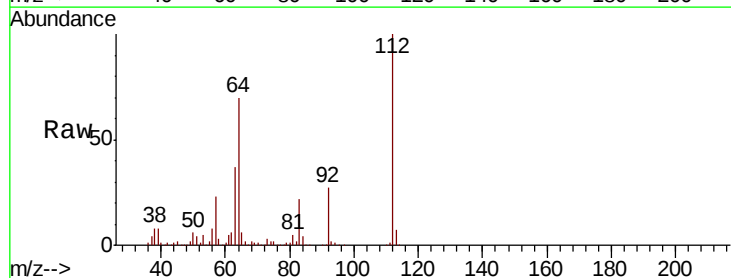
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.1 | 124.6 | 186.8 |
| 115     | 60.9  | 50.1  | 75.1  |



#5

2-Fluorophenol  
Concen: 77.950 ng  
RT: 5.64 min Scan# 562  
Delta R.T. 0.01 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.7  | 47.9  | 71.9  |
| 63      | 37.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 77.868 ng

RT: 6.64 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

Instrument :

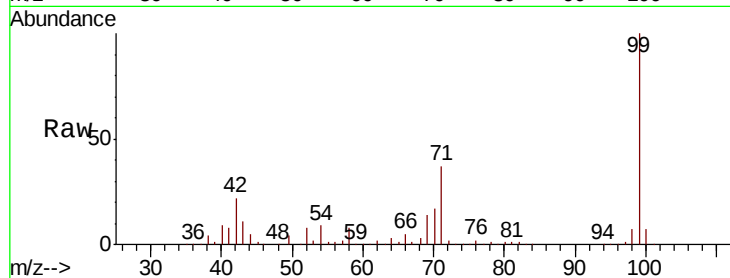
BNA\_F

ClientSampled :

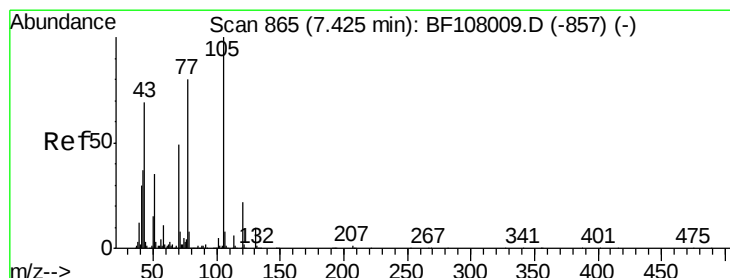
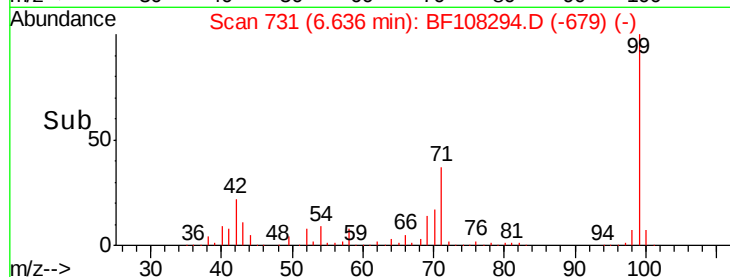
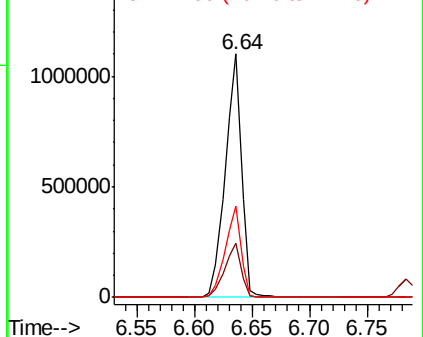
72-11975

Tot Ion: 99 Resp: 1074510

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 22.2  | 14.5  | 21.7# |
| 71  | 37.3  | 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: 10.171 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.15 min

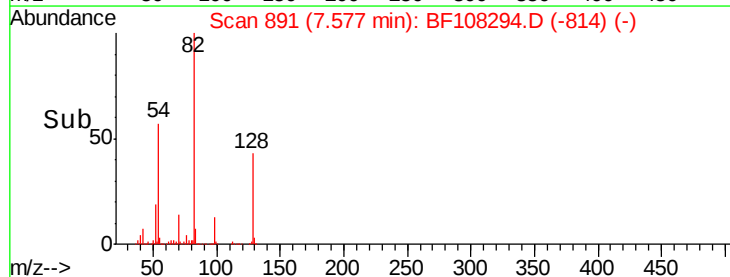
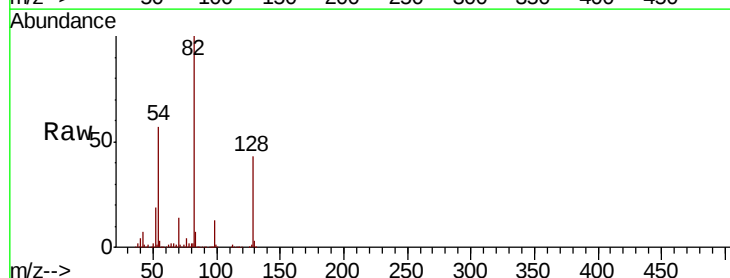
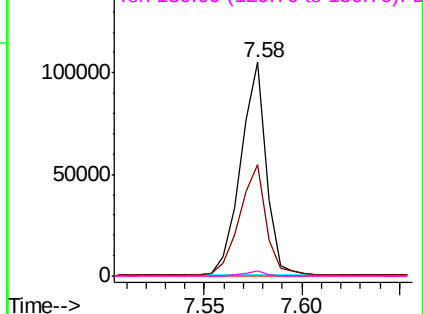
Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

Tgt Ion: 70 Resp: 94910

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 52.1  | 47.5  | 71.3  |
| 101 | 0.0   | 7.4   | 11.2# |
| 130 | 2.3   | 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: 8.30 min Scan# 1014

Delta R.T. -0.00 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

Instrument :

BNA\_F

ClientSampleId :

72-11975

Tot Ion:136 Resp: 702564

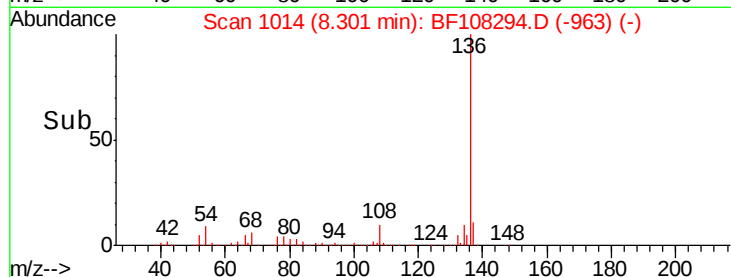
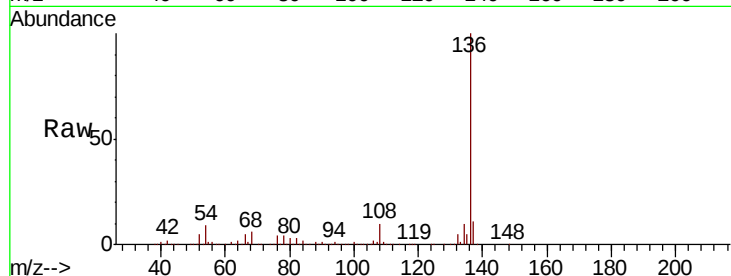
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 8.5 6.6 9.8

68 5.6 5.0 7.4

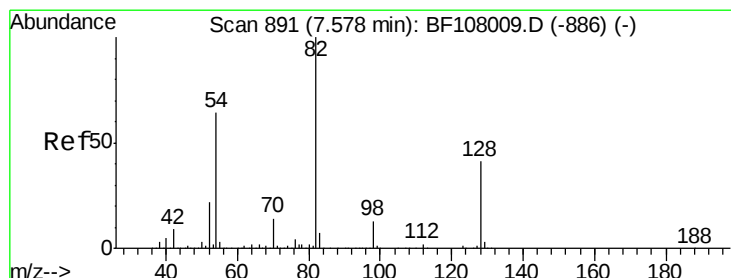
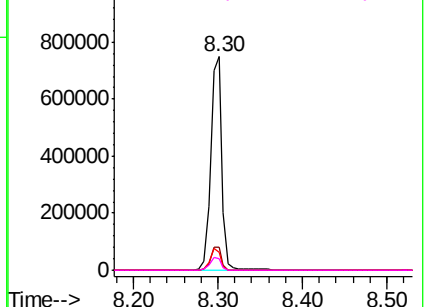


Abundance Ion 136.00 (135.70 to 136.70): E

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: 55.625 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.00 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

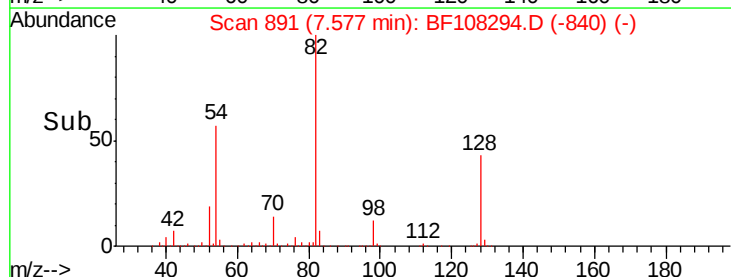
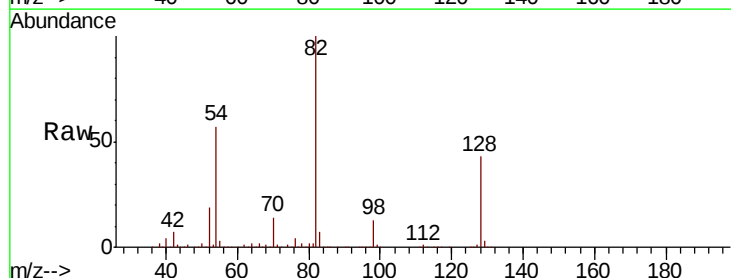
Tgt Ion: 82 Resp: 700344

Ion Ratio Lower Upper

82 100

128 42.9 36.1 54.1

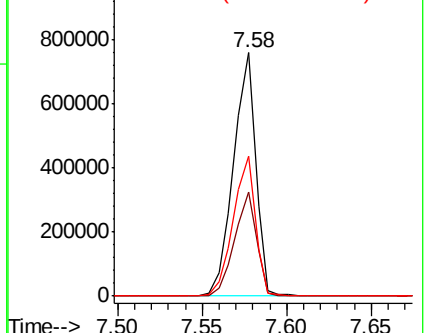
54 57.5 41.4 62.2



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: 29.034 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

Instrument :

BNA\_F

ClientSampleId :

72-11975

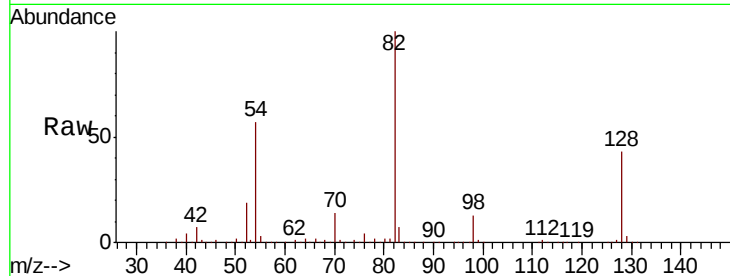
Tot Ion: 82 Resp: 696750

Ion Ratio Lower Upper

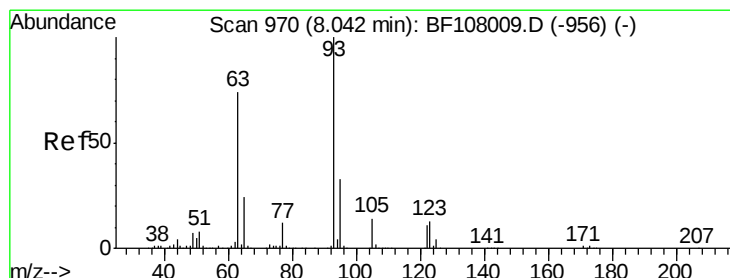
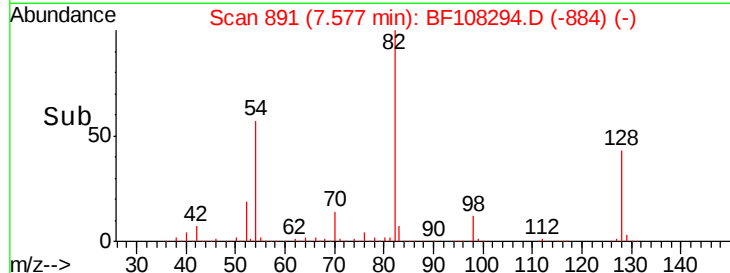
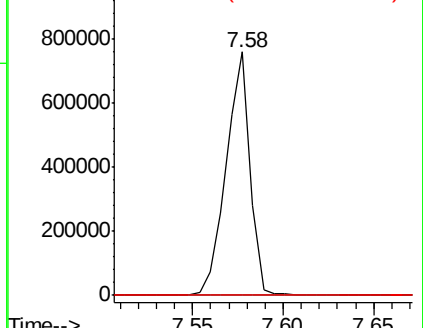
82 100

95 0.1 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: 5.990 ng

RT: 8.07 min Scan# 975

Delta R.T. 0.03 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

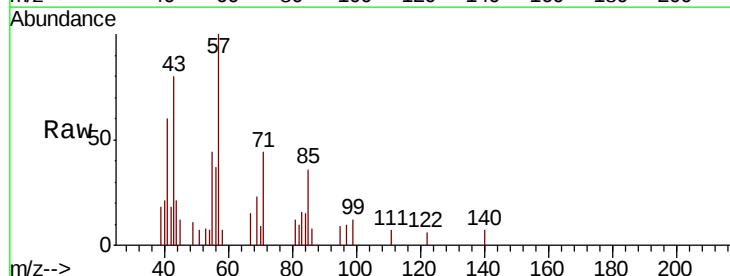
Tgt Ion: 122 Resp: 109

Ion Ratio Lower Upper

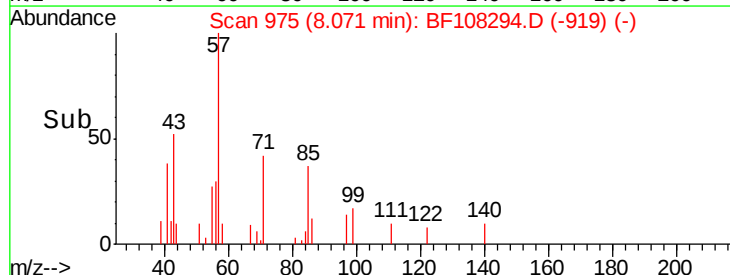
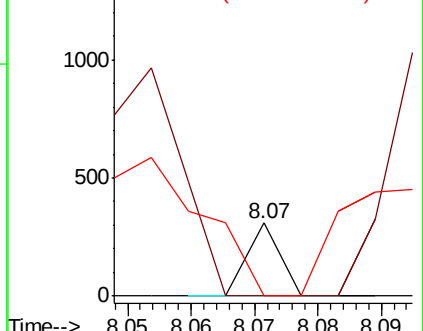
122 100

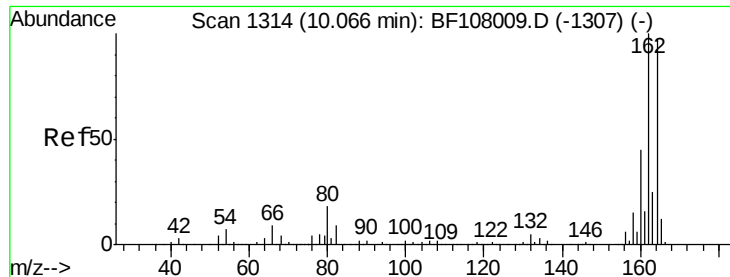
105 0.0 101.1 141.1#

77 0.0 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 77.00 (76.70 to 77.70): BF1

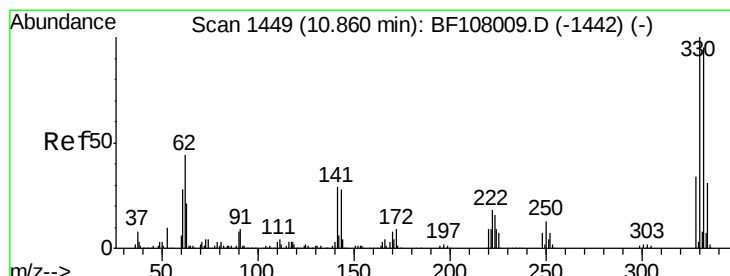
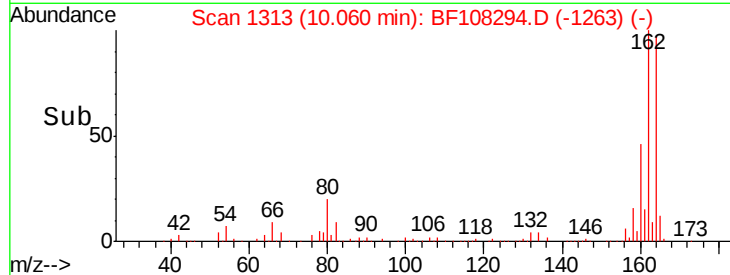
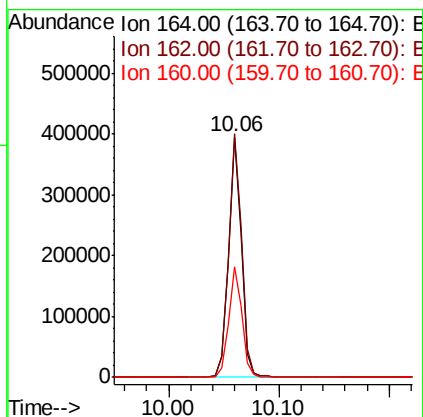
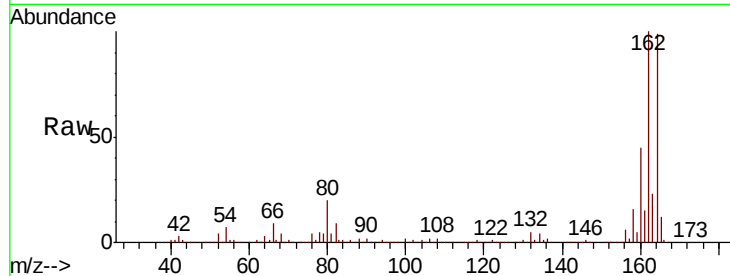




#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.06 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

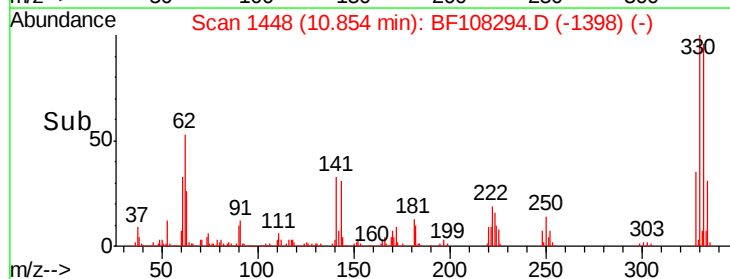
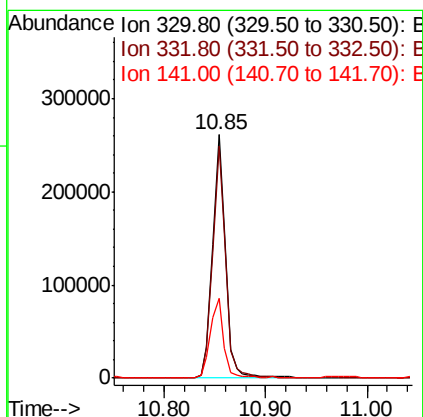
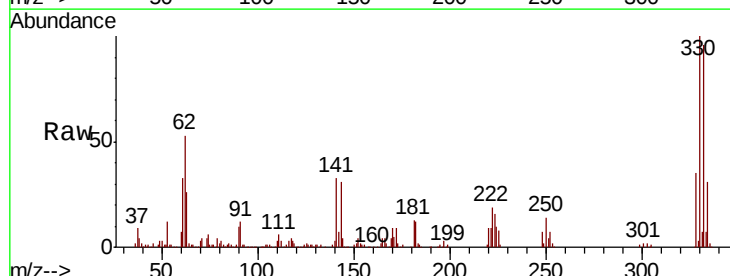
Instrument :  
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Tot Ion:164 Resp: 322540  
Ion Ratio Lower Upper  
164 100  
162 101.5 86.1 129.1  
160 46.2 38.3 57.5



#41  
2,4,6-Tribromophenol  
Concen: 73.318 ng  
RT: 10.85 min Scan# 1448  
Delta R.T. -0.01 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

Tgt Ion:330 Resp: 235883  
Ion Ratio Lower Upper  
330 100  
332 95.9 77.0 115.6  
141 33.2 29.9 44.9

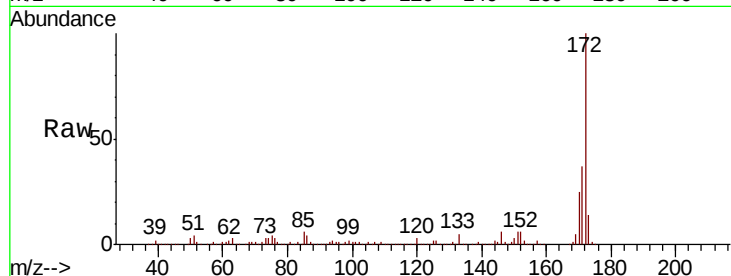




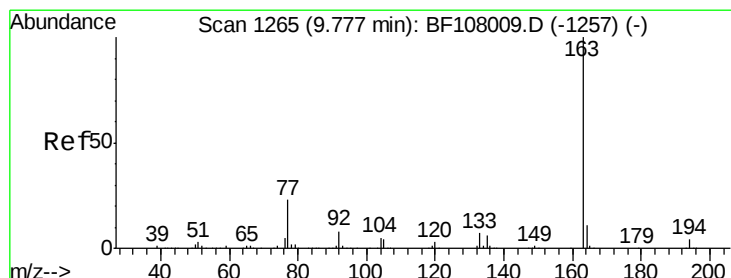
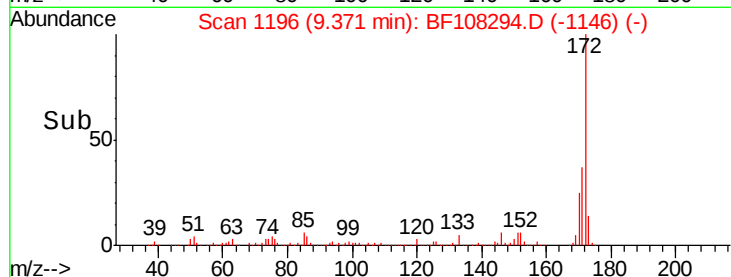
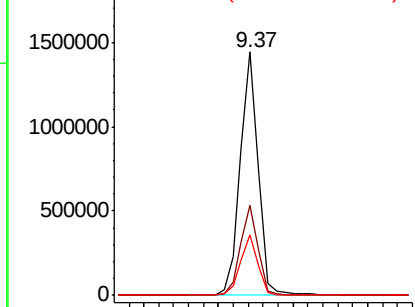
#44  
2-Fluorobiphenyl  
Concen: 60.429 ng  
RT: 9.37 min Scan# 1196  
Delta R.T. -0.01 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

Instrument :  
BNA\_F  
ClientSampleId :  
72-11975

Tot Ion:172 Resp: 1214028  
Ion Ratio Lower Upper  
172 100  
171 37.2 29.7 44.5  
170 24.9 19.6 29.4

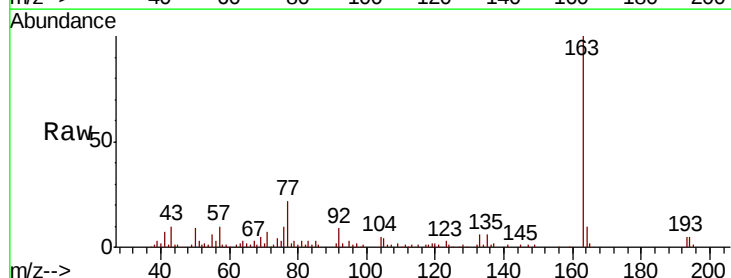


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

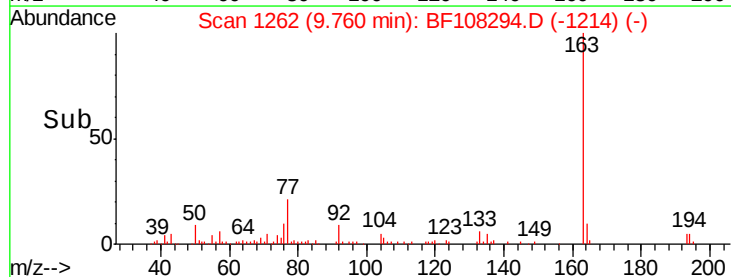
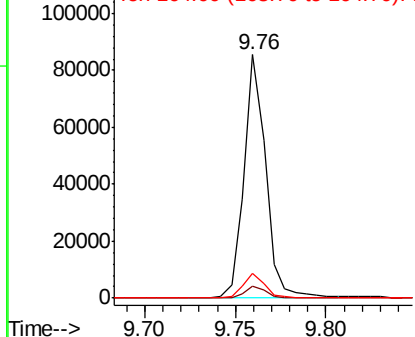


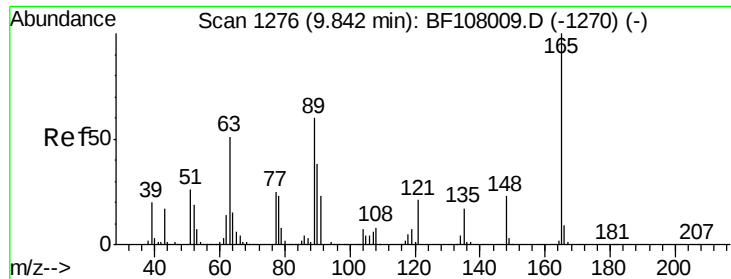
#49  
Dimethylphthalate  
Concen: 3.166 ng  
RT: 9.76 min Scan# 1262  
Delta R.T. -0.02 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

Tgt Ion:163 Resp: 71126  
Ion Ratio Lower Upper  
163 100  
194 5.1 2.7 4.1#  
164 10.0 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

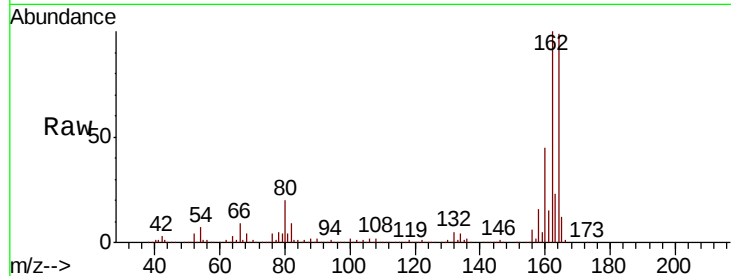




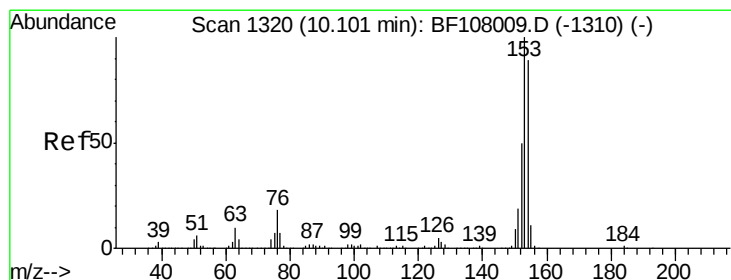
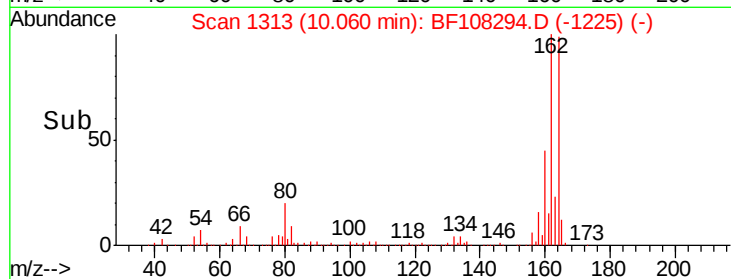
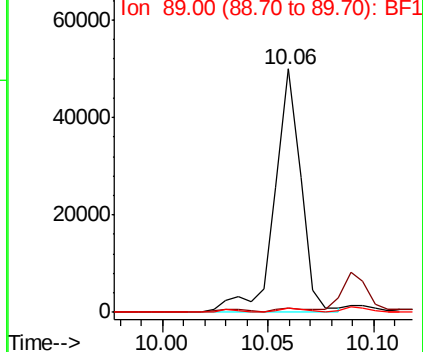
#50  
 2,6-Dinitrotoluene  
 Concen: 9.222 ng  
 RT: 10.06 min Scan# 1313  
 Delta R.T. 0.22 min  
 Lab File: BF108294.D  
 Acq: 20 Aug 2018 17:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11975

Tot Ion:165 Resp: 43351  
 Ion Ratio Lower Upper  
 165 100  
 63 1.5 44.7 67.1#  
 89 1.7 44.0 66.0#

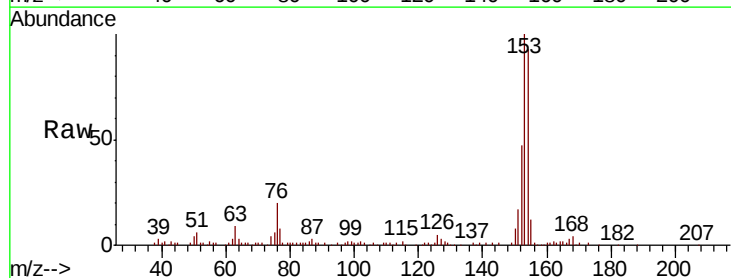


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

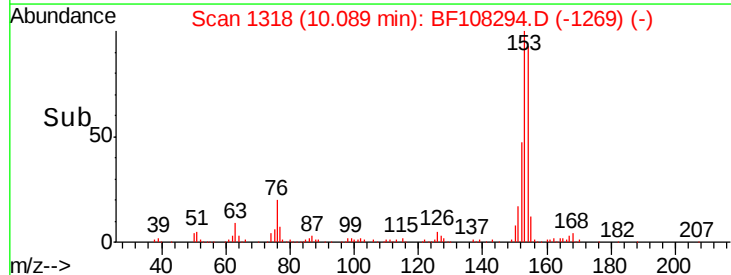
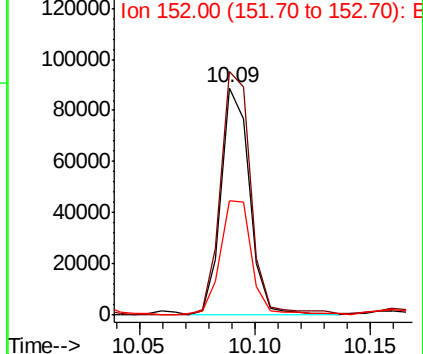


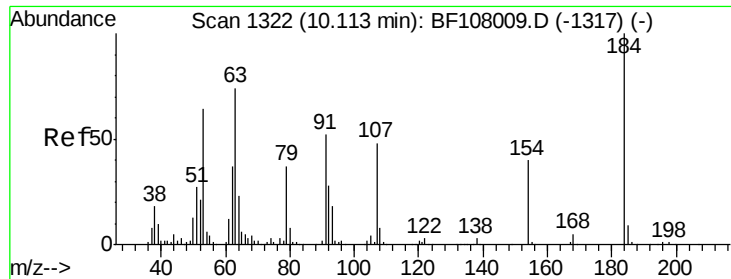
#51  
 Acenaphthene  
 Concen: 4.116 ng  
 RT: 10.09 min Scan# 1318  
 Delta R.T. -0.01 min  
 Lab File: BF108294.D  
 Acq: 20 Aug 2018 17:10

Tgt Ion:154 Resp: 74904  
 Ion Ratio Lower Upper  
 154 100  
 153 107.3 91.2 136.8  
 152 50.4 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

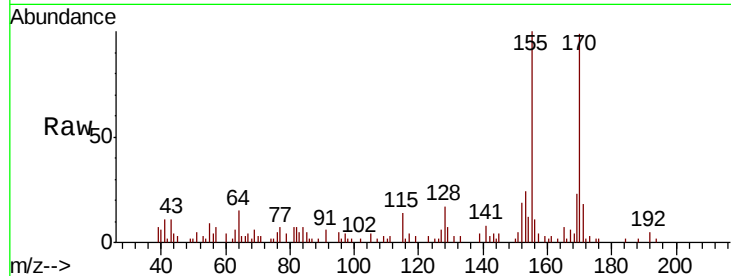




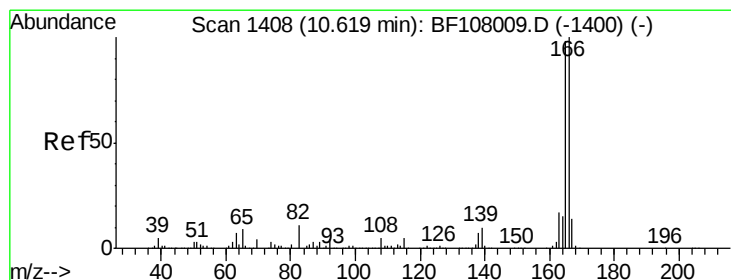
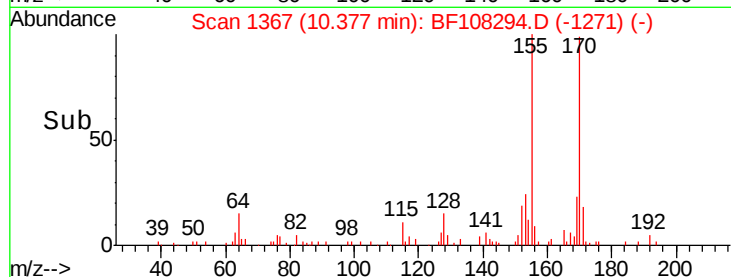
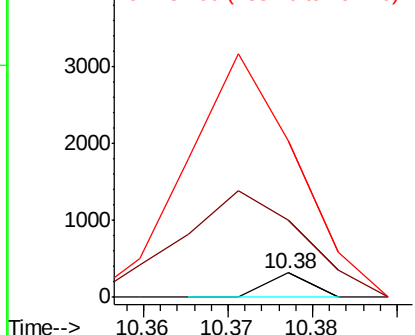
#53  
 2,4-Dinitrophenol  
 Concen: 7.078 ng  
 RT: 10.38 min Scan# 1367  
 Delta R.T. 0.27 min  
 Lab File: BF108294.D  
 Acq: 20 Aug 2018 17:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11975

Tot Ion:184 Resp: 111  
 Ion Ratio Lower Upper  
 184 100  
 63 319.1 54.2 81.2#  
 154 649.7 184.0 276.0#

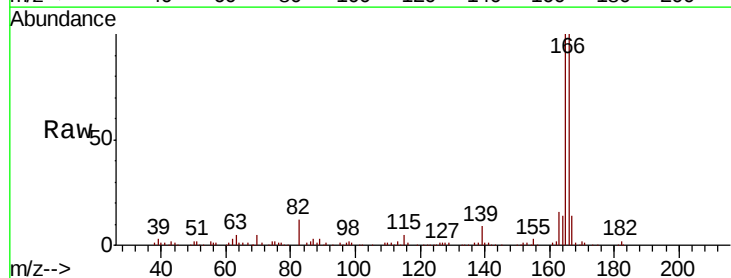


Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 154.00 (153.70 to 154.70): E

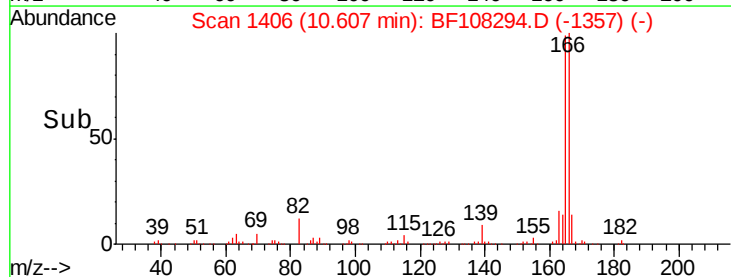
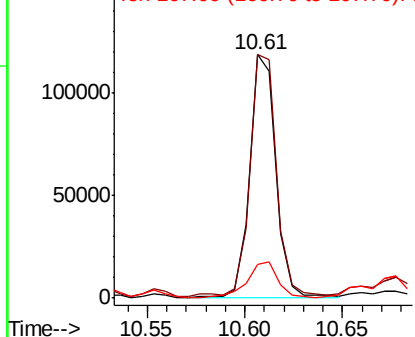


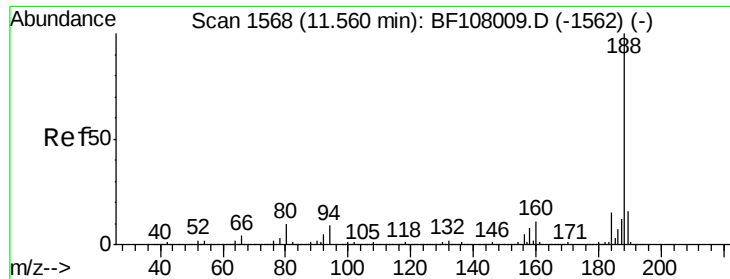
#57  
 Fluorene  
 Concen: 5.239 ng  
 RT: 10.61 min Scan# 1406  
 Delta R.T. -0.01 min  
 Lab File: BF108294.D  
 Acq: 20 Aug 2018 17:10

Tgt Ion:166 Resp: 109359  
 Ion Ratio Lower Upper  
 166 100  
 165 99.8 79.8 119.8  
 167 14.0 10.6 16.0



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





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.56 min Scan# 1568

Delta R.T. -0.00 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

Instrument :

BNA\_F

ClientSampleId :

72-11975

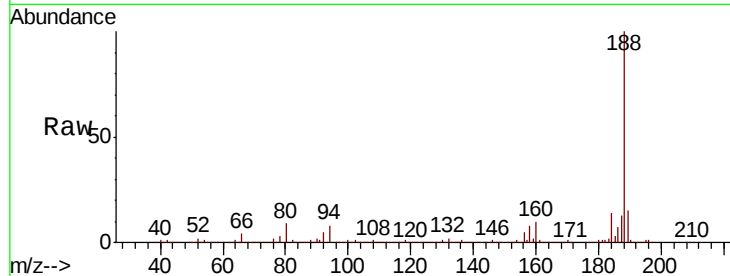
Tot Ion:188 Resp: 520249

Ion Ratio Lower Upper

188 100

94 8.3 8.5 12.7#

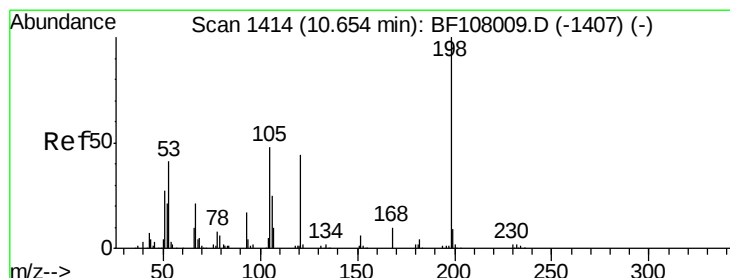
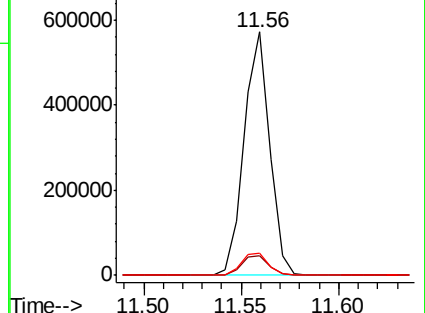
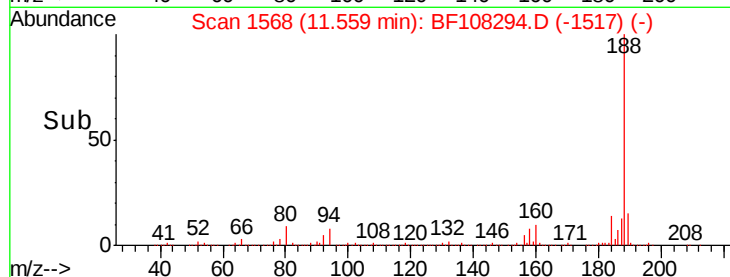
80 9.2 9.2 13.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#64

4,6-Dinitro-2-methylphenol

Concen: 5.657 ng

RT: 10.92 min Scan# 1460

Delta R.T. 0.27 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

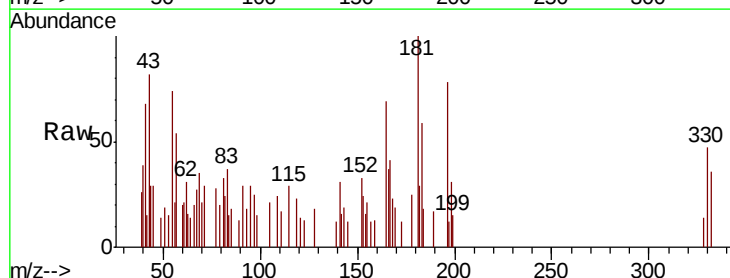
Tgt Ion:198 Resp: 657

Ion Ratio Lower Upper

198 100

51 61.2 37.7 77.7

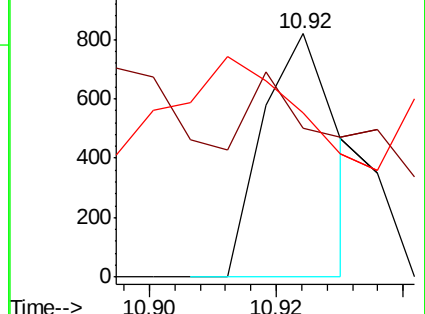
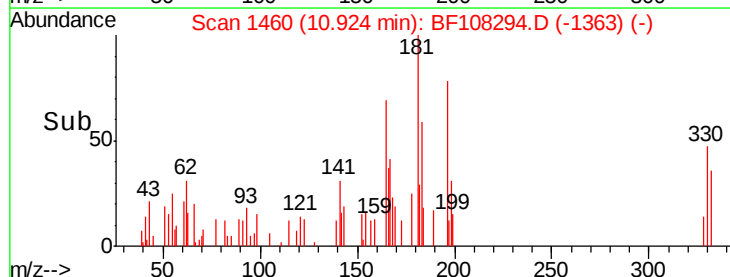
105 67.4 36.3 76.3

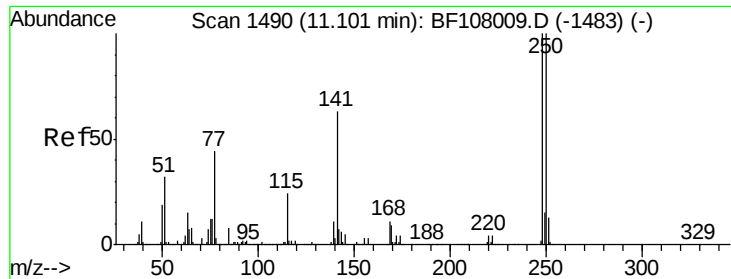


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

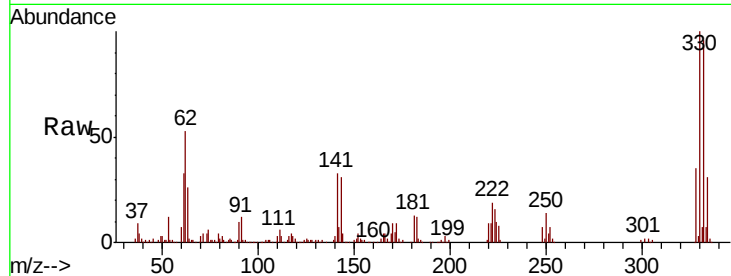




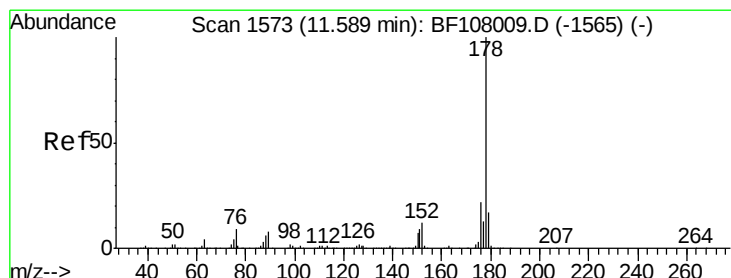
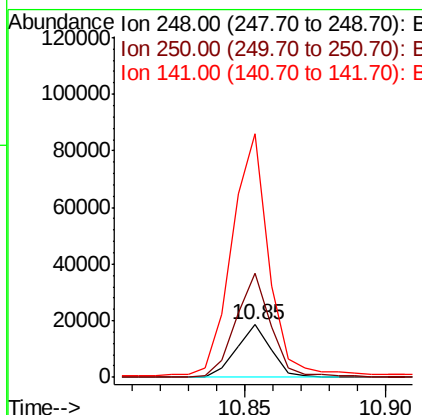
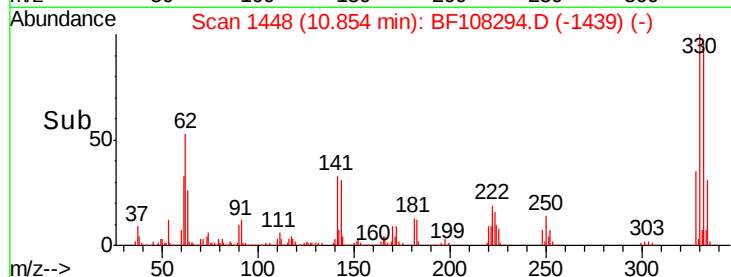
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.767 ng  
 RT: 10.85 min Scan# 1448  
 Delta R.T. -0.25 min  
 Lab File: BF108294.D  
 Acq: 20 Aug 2018 17:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11975

Tot Ion:248 Resp: 15643  
 Ion Ratio Lower Upper  
 248 100  
 250 197.3 76.9 115.3#  
 141 461.1 74.4 111.6#

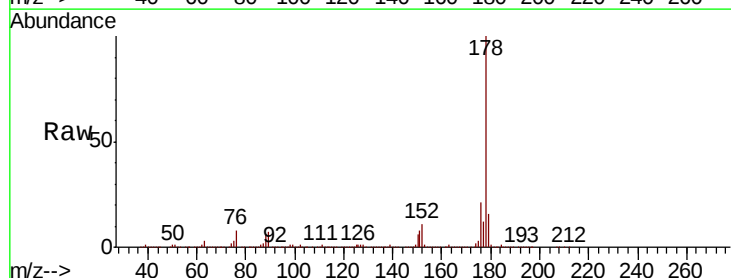


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

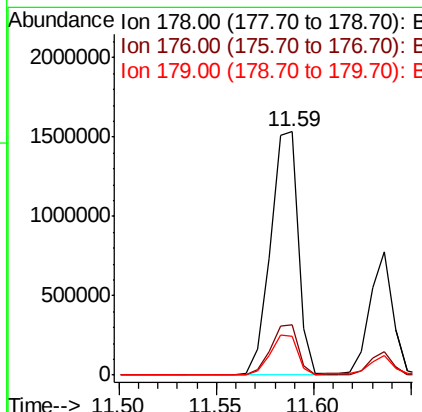
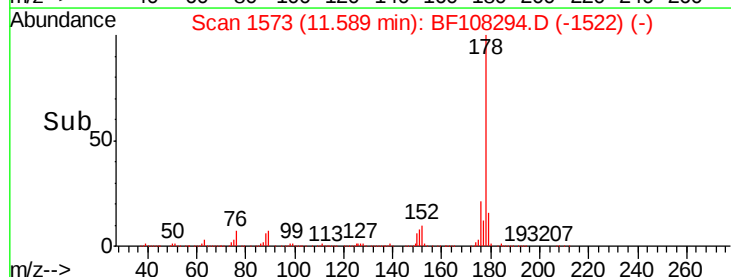


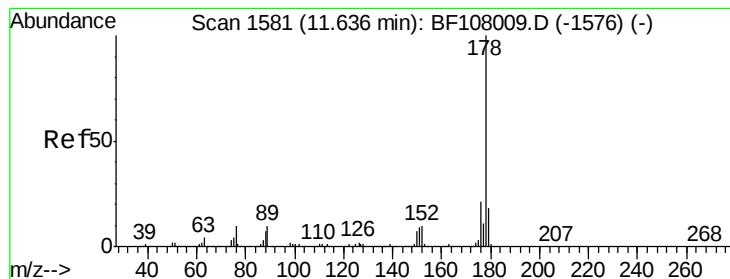
#70  
 Phenanthrene  
 Concen: 61.572 ng  
 RT: 11.59 min Scan# 1573  
 Delta R.T. -0.00 min  
 Lab File: BF108294.D  
 Acq: 20 Aug 2018 17:10

Tgt Ion:178 Resp: 1510869  
 Ion Ratio Lower Upper  
 178 100  
 176 20.6 15.8 23.8  
 179 16.2 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: 25.432 ng

RT: 11.64 min Scan# 1581

Delta R.T. -0.00 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

Instrument :

BNA\_F

ClientSampleId :

72-11975

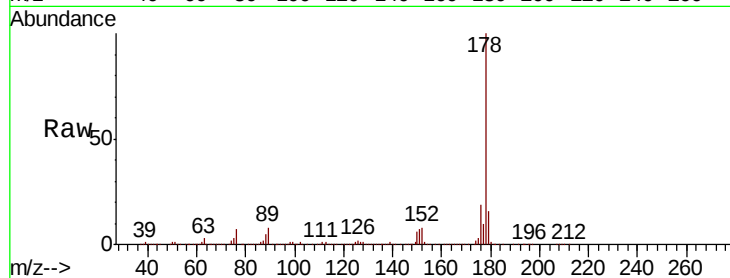
Tot Ion:178 Resp: 639627

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.8  | 15.4  | 23.2  |
| 179 | 15.5  | 12.6  | 19.0  |

178 100

176 18.8 15.4 23.2

179 15.5 12.6 19.0

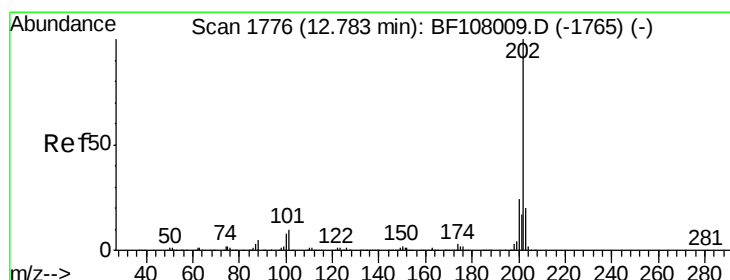
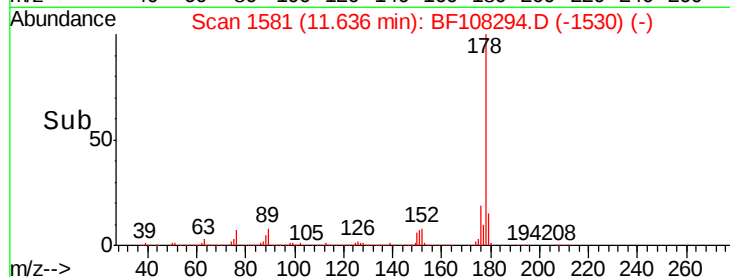
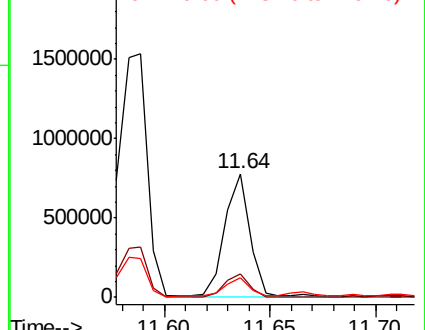


Abundance

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: 126.693 ng

RT: 12.79 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

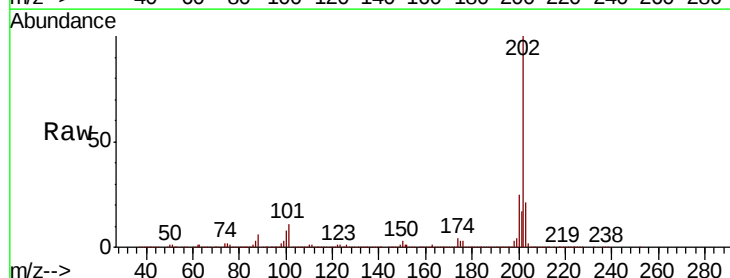
Tgt Ion:202 Resp: 3392903

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 11.4  | 0.0   | 34.1  |
| 203 | 20.6  | 0.0   | 38.1  |

202 100

101 11.4 0.0 34.1

203 20.6 0.0 38.1

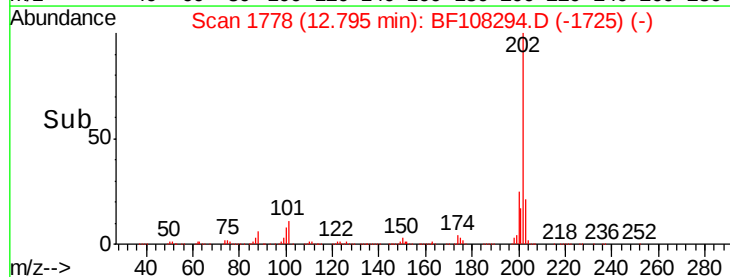
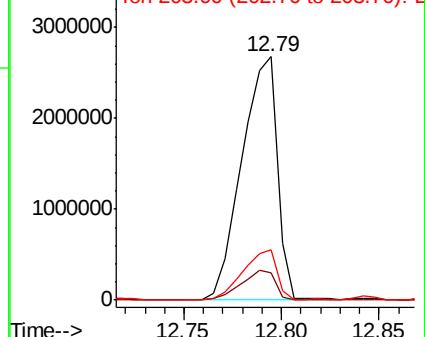


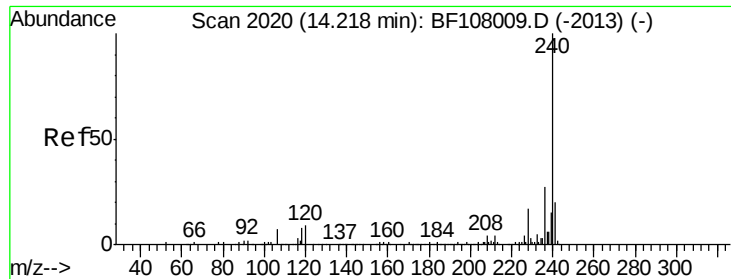
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.22 min Scan# 2021

Delta R.T. 0.01 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

Instrument :

BNA\_F

ClientSampleId :

72-11975

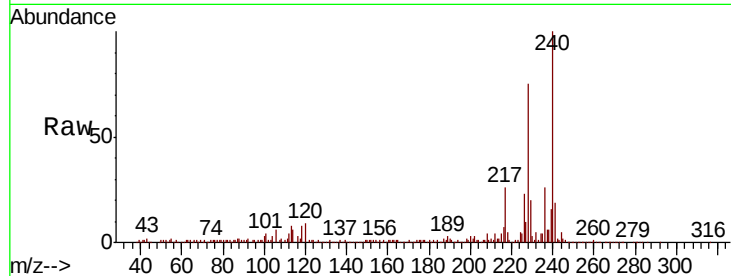
Tot Ion:240 Resp: 360649

Ion Ratio Lower Upper

240 100

120 8.6 9.5 14.3#

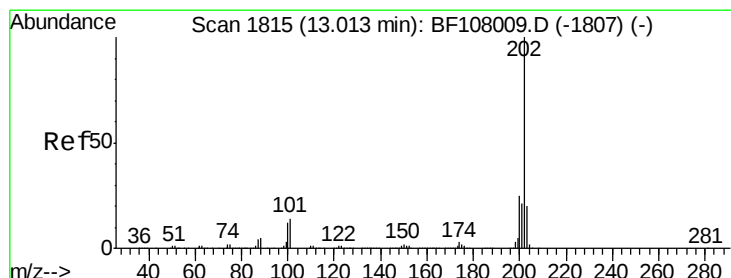
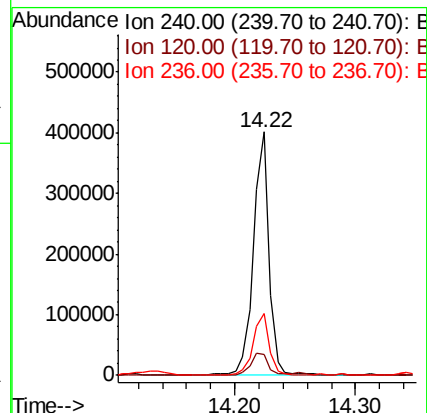
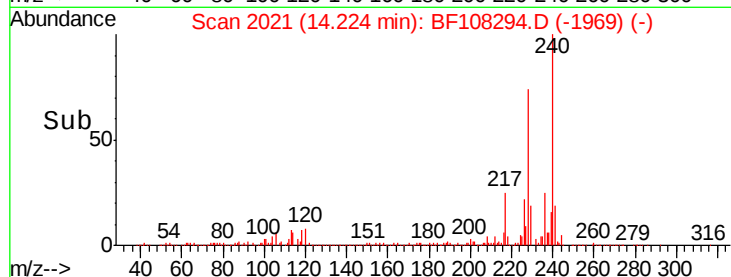
236 25.6 20.7 31.1



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

Pyrene

Concen: 142.710 ng

RT: 13.02 min Scan# 1817

Delta R.T. 0.01 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

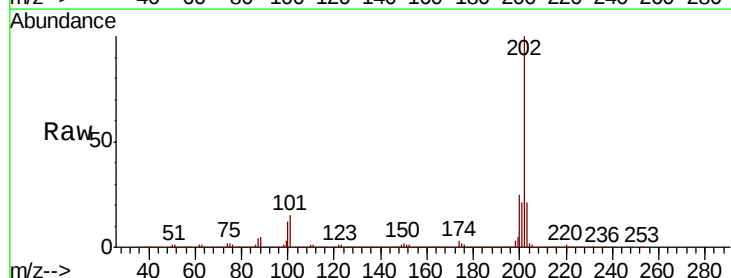
Tgt Ion:202 Resp: 3258481

Ion Ratio Lower Upper

202 100

200 25.2 17.4 26.2

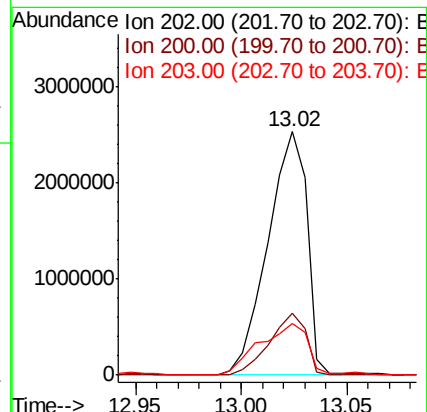
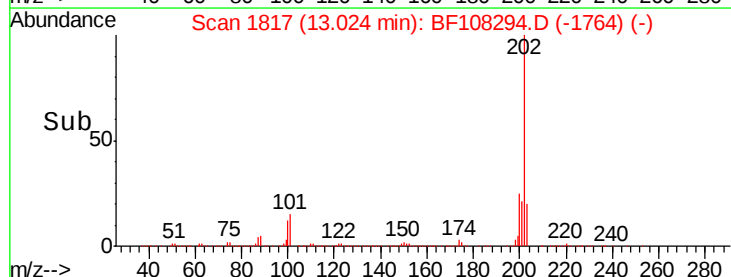
203 21.2 14.3 21.5

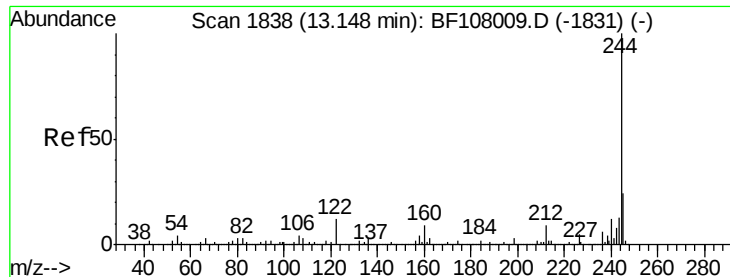


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 66.337 ng

RT: 13.14 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

Instrument :

BNA\_F

ClientSampleId :

72-11975

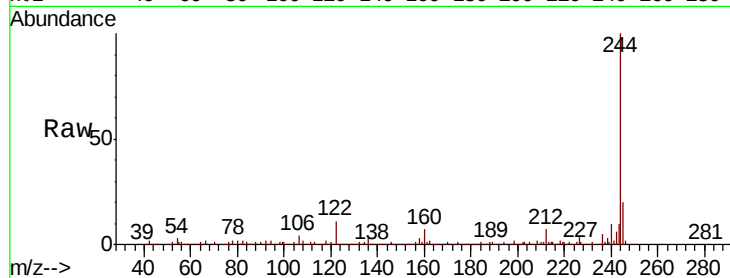
Tot Ion:244 Resp: 940960

Ion Ratio Lower Upper

244 100

212 7.5 5.4 8.0

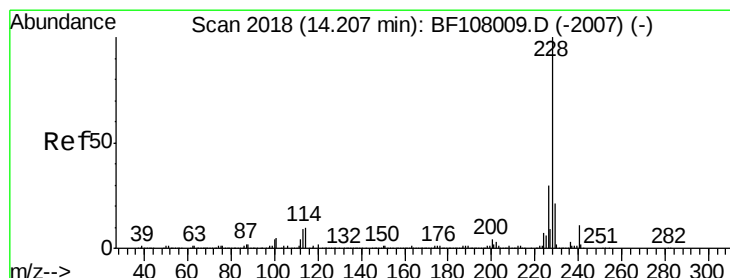
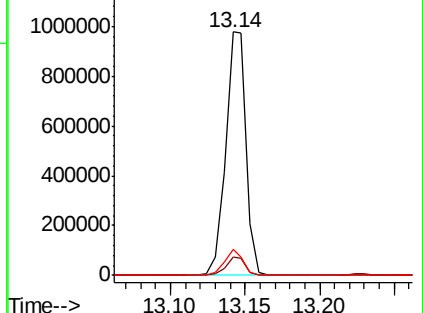
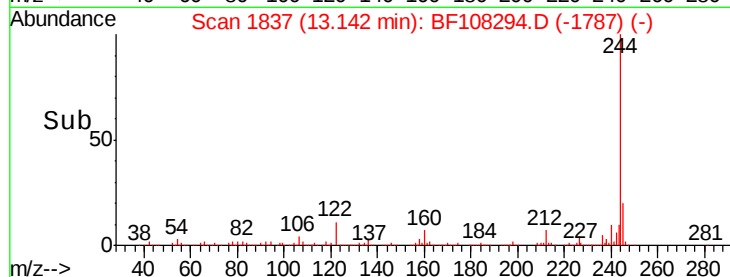
122 10.7 11.0 16.4#



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: 99.462 ng

RT: 14.21 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

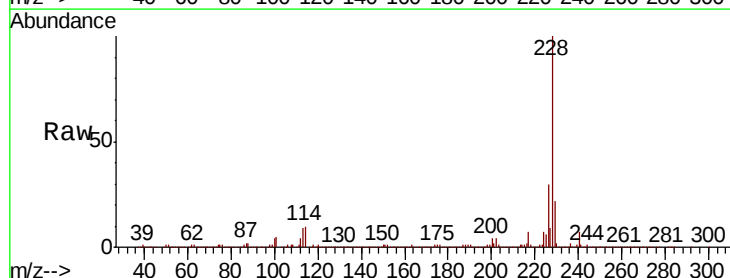
Tgt Ion:228 Resp: 2058631

Ion Ratio Lower Upper

228 100

226 30.0 22.6 33.8

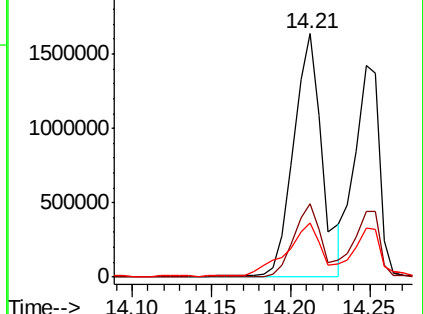
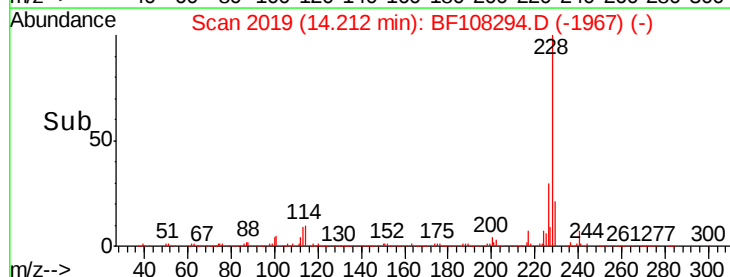
229 22.2 15.8 23.6

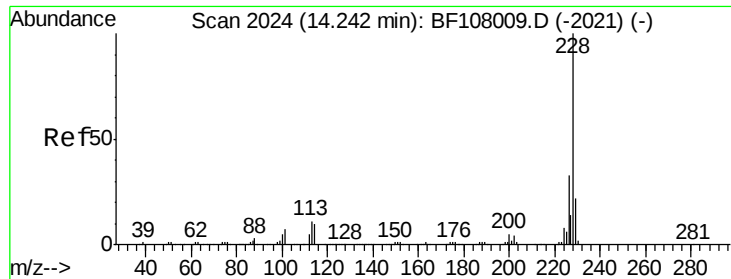


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

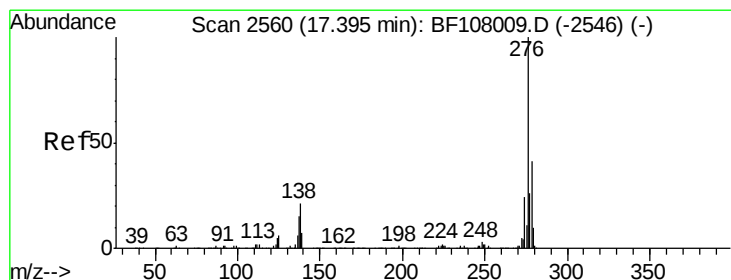
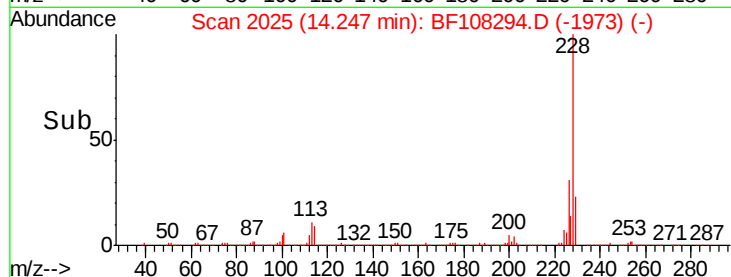
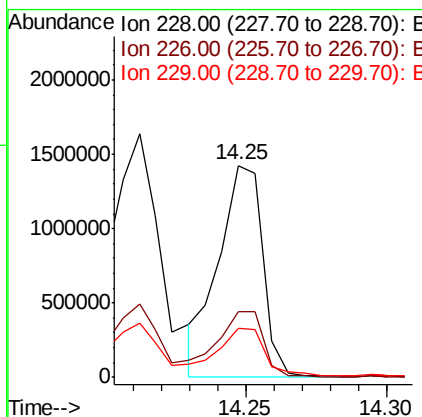
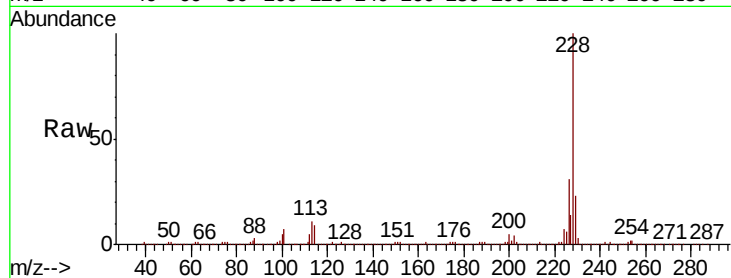




#82  
Chrysene  
Concen: 81.774 ng  
RT: 14.25 min Scan# 2025  
Delta R.T. 0.01 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

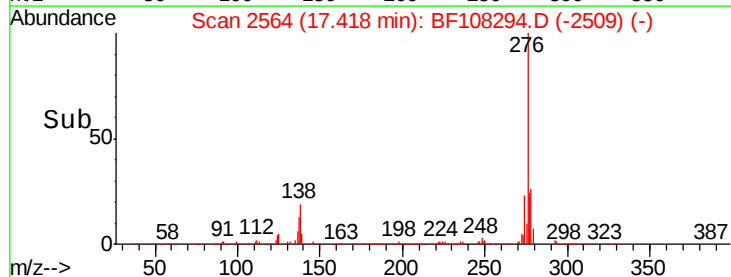
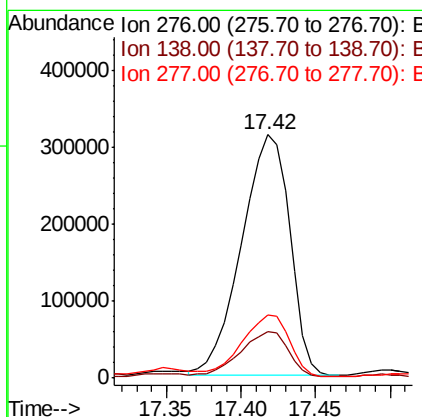
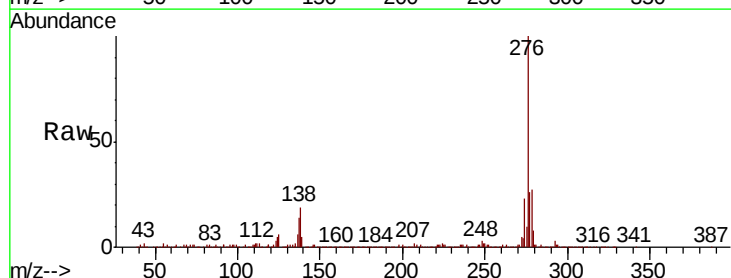
Instrument :  
BNA\_F  
ClientSampleId :  
72-11975

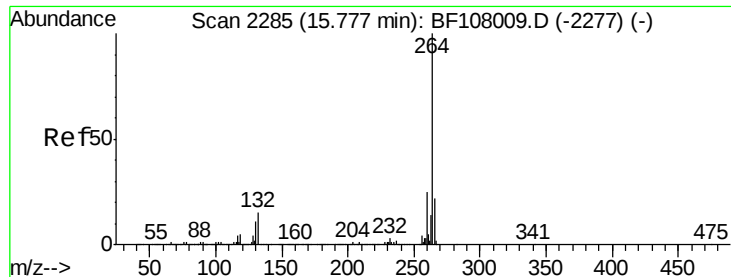
Tot Ion:228 Resp: 1551695  
Ion Ratio Lower Upper  
228 100  
226 31.3 25.0 37.6  
229 23.4 16.2 24.4



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 42.643 ng  
RT: 17.42 min Scan# 2564  
Delta R.T. 0.02 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

Tgt Ion:276 Resp: 701103  
Ion Ratio Lower Upper  
276 100  
138 18.9 25.0 37.6#  
277 25.1 20.1 30.1

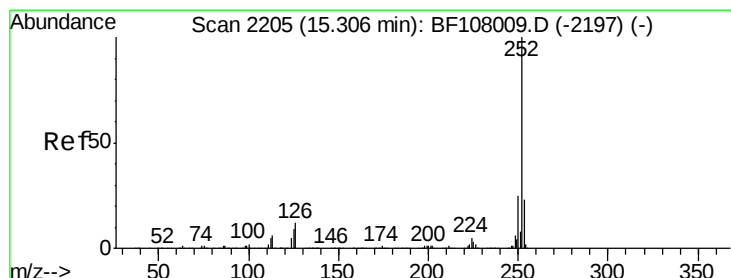
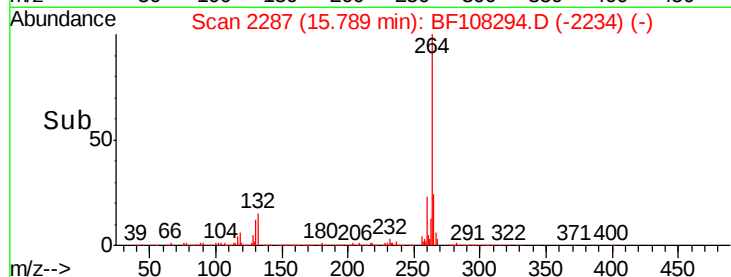
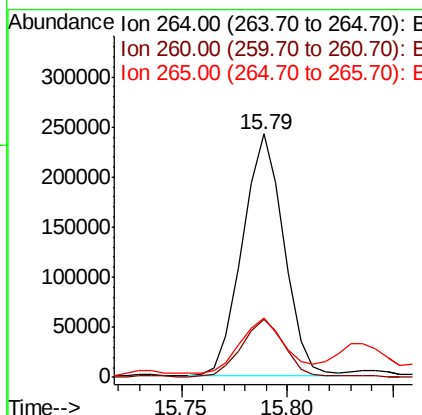
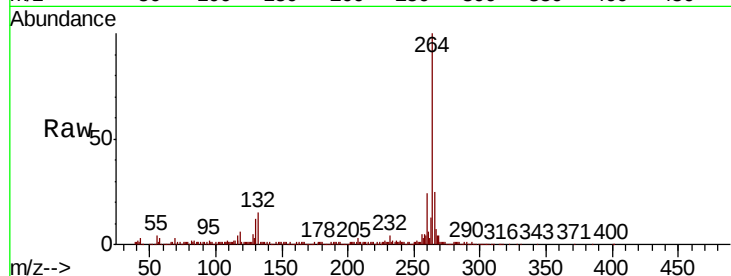




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.79 min Scan# 2287  
Delta R.T. 0.01 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

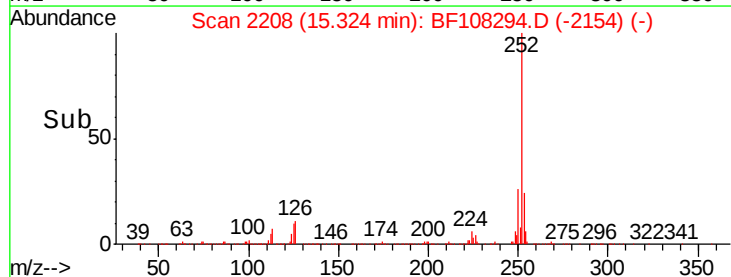
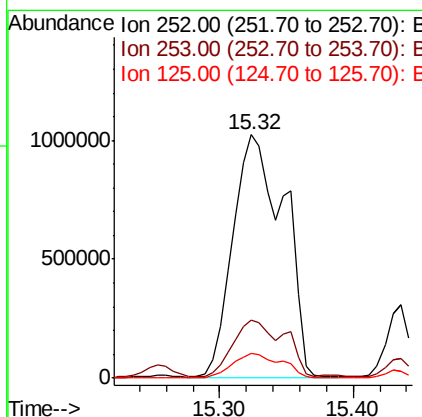
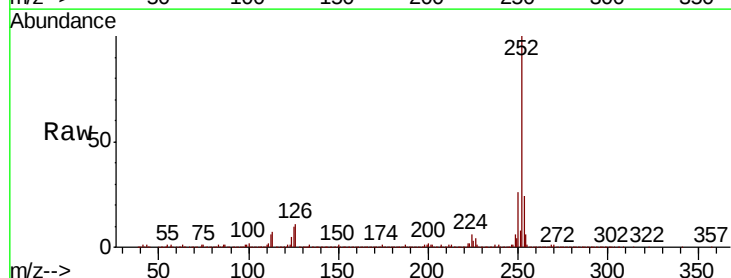
Instrument :  
BNA\_F  
ClientSampleId :  
72-11975

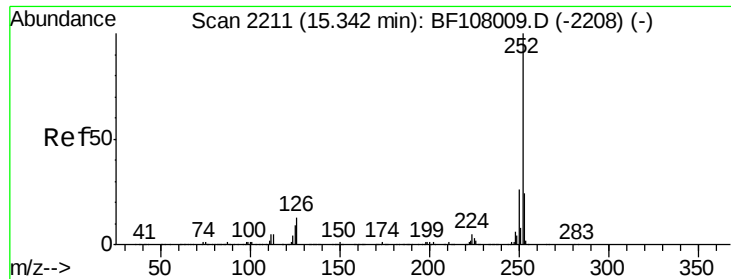
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.2  | 28.8  |
| 265     | 24.6  | 17.5  | 26.3  |



#87  
Benzo(b)fluoranthene  
Concen: 138.350 ng  
RT: 15.32 min Scan# 2208  
Delta R.T. 0.02 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.0  | 25.6  |
| 125     | 10.1  | 9.0   | 13.6  |

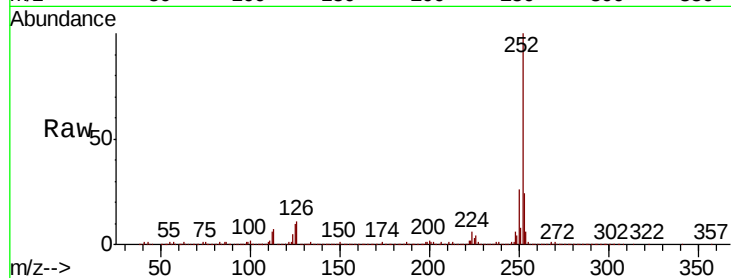




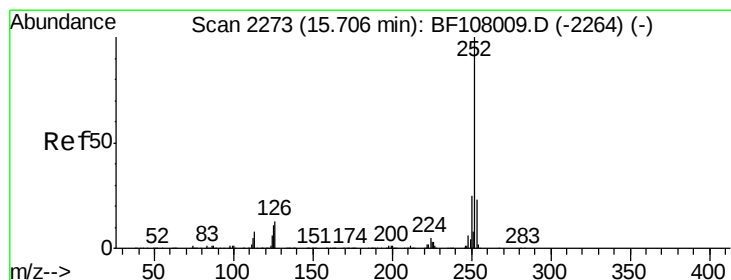
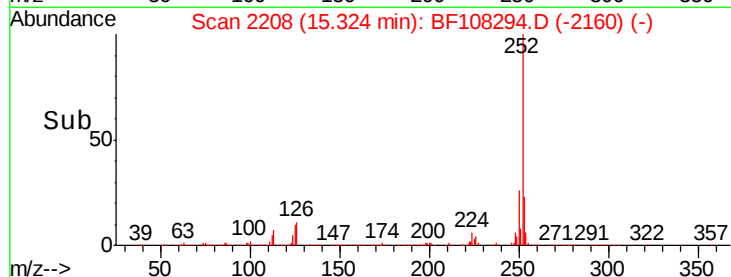
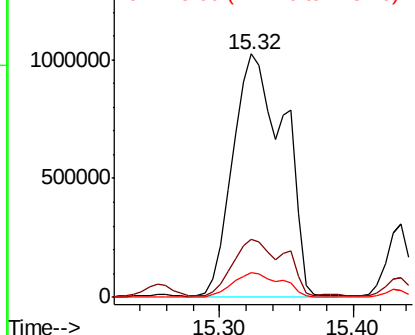
#88  
Benzo(k)fluoranthene  
Concen: 150.504 ng  
RT: 15.32 min Scan# 2208  
Delta R.T. -0.02 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

Instrument :  
BNA\_F  
ClientSampleId :  
72-11975

Tot Ion:252 Resp: 2730830  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.9 26.9  
125 10.1 10.2 15.2#

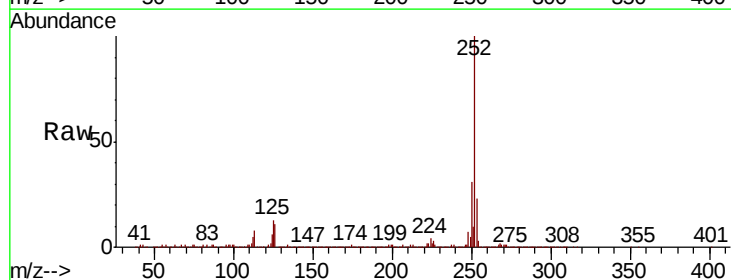


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

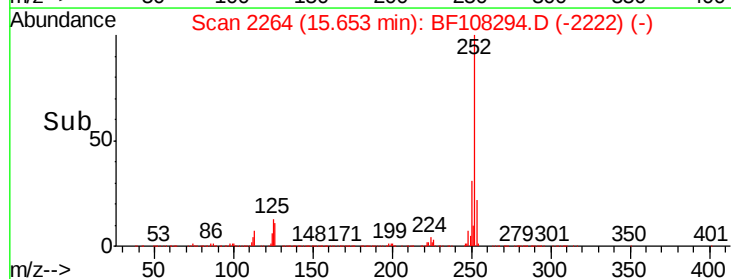
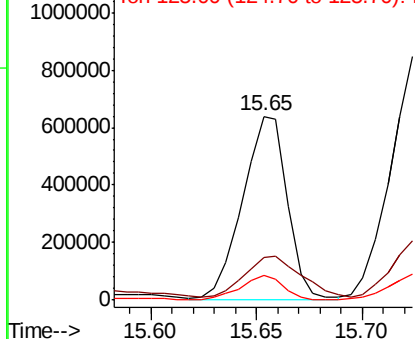


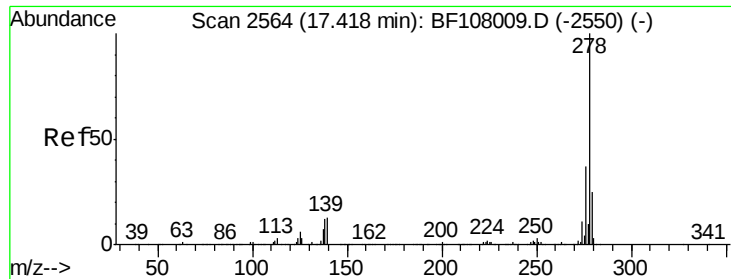
#89  
Benzo(a)pyrene  
Concen: 52.699 ng  
RT: 15.65 min Scan# 2264  
Delta R.T. -0.05 min  
Lab File: BF108294.D  
Acq: 20 Aug 2018 17:10

Tgt Ion:252 Resp: 931474  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.1 25.7  
125 13.2 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 13.512 ng

RT: 17.42 min Scan# 2565

Delta R.T. 0.01 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

Instrument :

BNA\_F

ClientSampleId :

72-11975

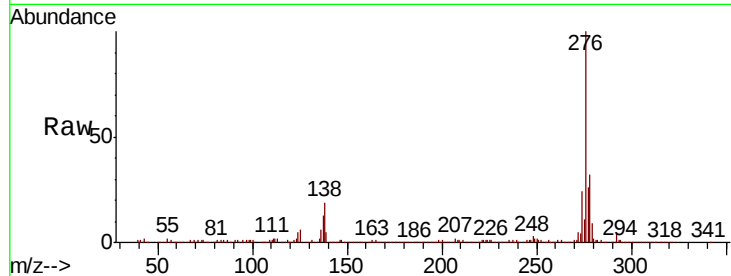
Tot Ion:278 Resp: 197609

Ion Ratio Lower Upper

278 100

139 17.0 15.9 23.9

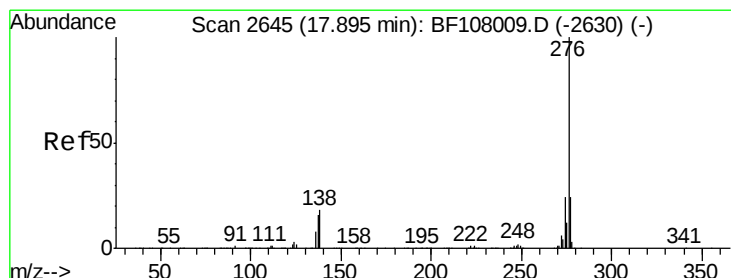
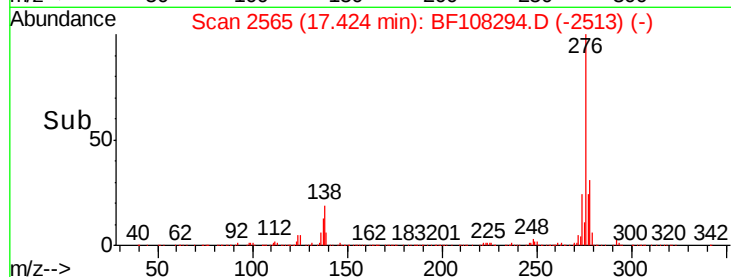
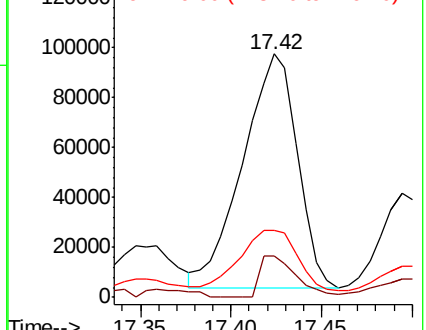
279 27.4 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 42.806 ng

RT: 17.92 min Scan# 2649

Delta R.T. 0.02 min

Lab File: BF108294.D

Acq: 20 Aug 2018 17:10

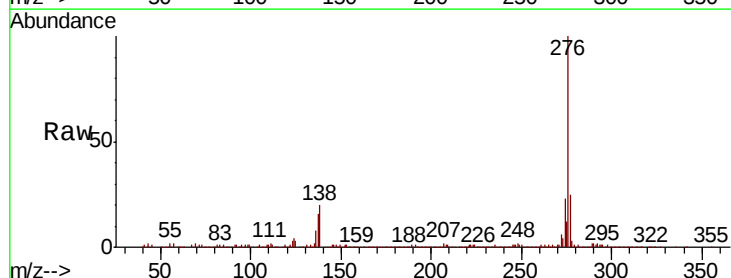
Tgt Ion:276 Resp: 616429

Ion Ratio Lower Upper

276 100

277 24.9 17.9 26.9

138 19.6 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

