

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF043019\  
 Data File : BF114040.D  
 Acq On : 30 Apr 2019 14:25  
 Operator : JU/SJ  
 Sample : K2194-15 2X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 30 23:02:13 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 23 03:32:35 2019  
 Response via : Initial Calibration

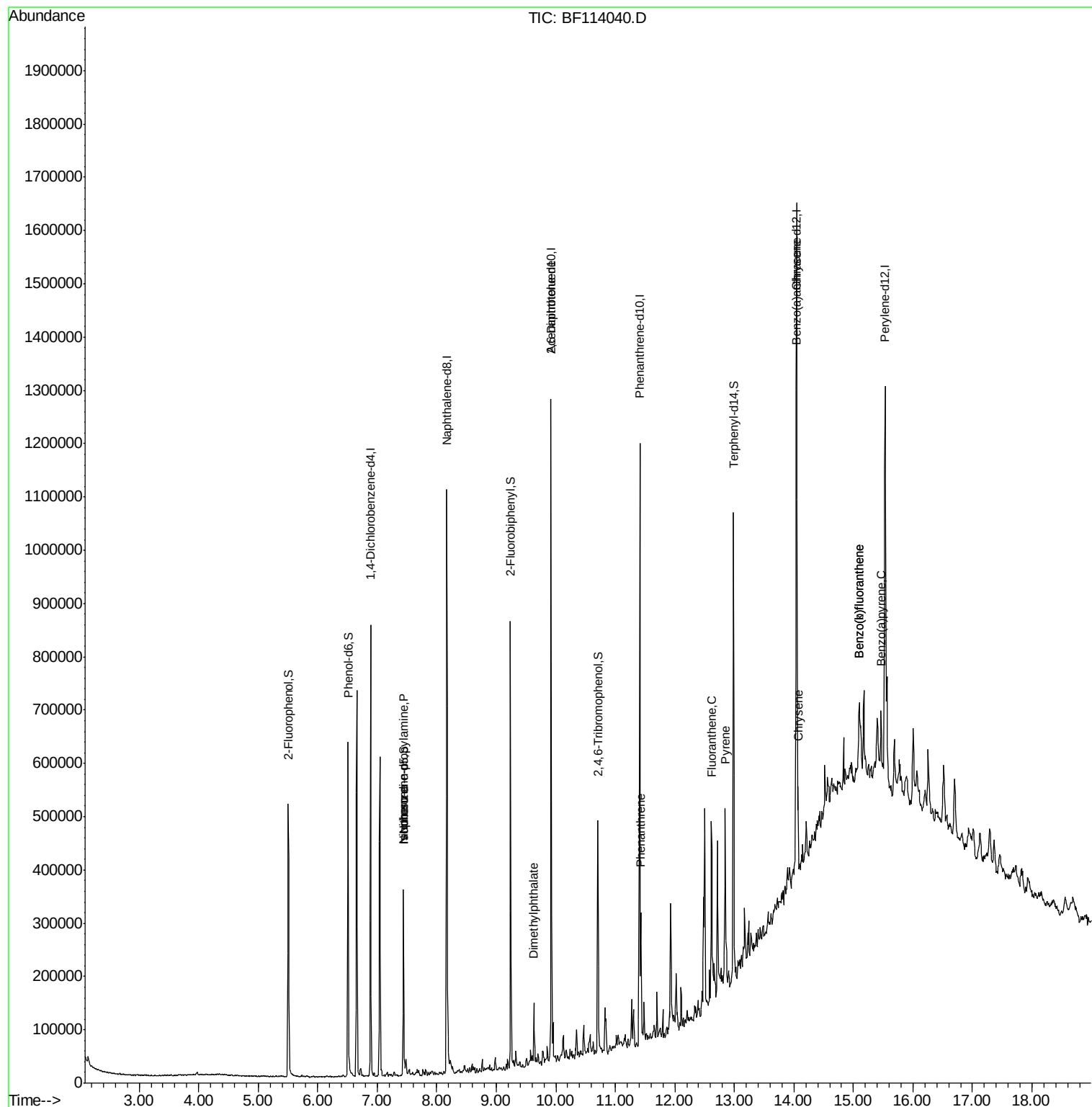
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-----------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 127568   | 20.00     | ng    | -0.01       |
| 21) Naphthalene-d8             | 8.17  | 136  | 499339   | 20.00     | ng    | -0.01       |
| 39) Acenaphthene-d10           | 9.92  | 164  | 251770   | 20.00     | ng    | -0.01       |
| 64) Phenanthrene-d10           | 11.41 | 188  | 453729   | 20.00     | ng    | 0.00        |
| 76) Chrysene-d12               | 14.04 | 240  | 389576   | 20.00     | ng    | -0.02       |
| 87) Perylene-d12               | 15.53 | 264  | 375795   | 20.00     | ng    | -0.04       |
| System Monitoring Compounds    |       |      |          |           |       |             |
| 5) 2-Fluorophenol              | 5.50  | 112  | 162404   | 21.77     | ng    | -0.01       |
| 7) Phenol-d6                   | 6.51  | 99   | 225028   | 24.05     | ng    | -0.01       |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 127947   | 15.82     | ng    | -0.02       |
| 42) 2,4,6-Tribromophenol       | 10.71 | 330  | 65809    | 21.46     | ng    | -0.01       |
| 45) 2-Fluorobiphenyl           | 9.24  | 172  | 288559   | 17.93     | ng    | -0.02       |
| 79) Terphenyl-d14              | 12.99 | 244  | 292328   | 15.38     | ng    | -0.02       |
| Target Compounds               |       |      |          |           |       |             |
| 9) Benzaldehyde                | 6.66  | 77   | 3913     | Below Cal |       | Qvalue # 77 |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 16764    | 2.766 ng  | #     | 81          |
| 25) Isophorone                 | 7.44  | 82   | 127945   | 7.732 ng  | #     | 65          |
| 50) Dimethylphthalate          | 9.63  | 163  | 41693    | 2.290 ng  |       | 99          |
| 51) 2,6-Dinitrotoluene         | 9.92  | 165  | 33466    | 8.567 ng  | #     | 33          |
| 71) Phenanthrene               | 11.43 | 178  | 85672    | 3.757 ng  |       | 98          |
| 75) Fluoranthene               | 12.62 | 202  | 133213   | 5.355 ng  |       | 98          |
| 78) Pyrene                     | 12.84 | 202  | 137946   | 5.063 ng  |       | 97          |
| 81) Benzo(a)anthracene         | 14.03 | 228  | 68437    | 2.982 ng  |       | 96          |
| 83) Chrysene                   | 14.07 | 228  | 60476    | 2.705 ng  |       | 94          |
| 88) Benzo(b)fluoranthene       | 15.10 | 252  | 100736   | 4.237 ng  | #     | 85          |
| 89) Benzo(k)fluoranthene       | 15.10 | 252  | 100736   | 4.926 ng  | #     | 87          |
| 90) Benzo(a)pyrene             | 15.47 | 252  | 53799    | 2.616 ng  | #     | 92          |

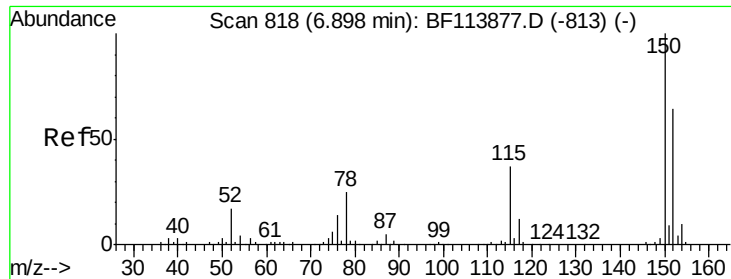
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K2194-15 2X  
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BNA\_F  
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Quant Time: Apr 30 23:02:13 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 23 03:32:35 2019  
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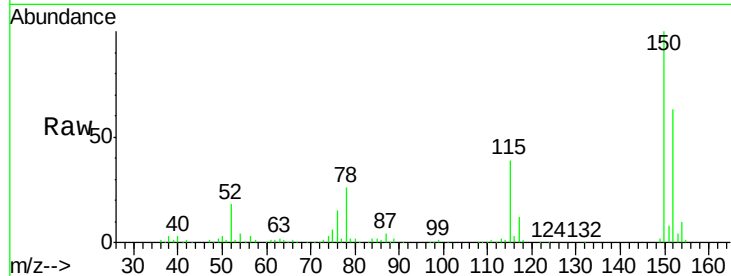


#1

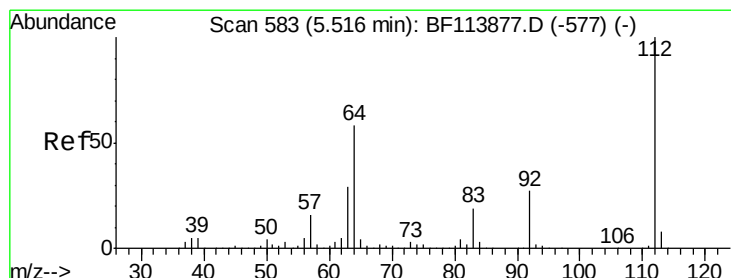
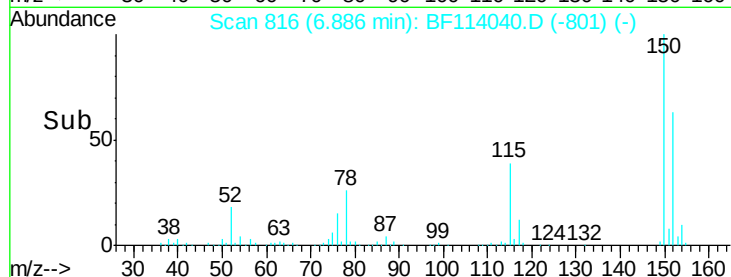
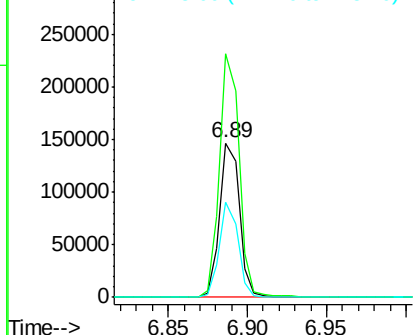
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 816  
Delta R.T. -0.01 min  
Lab File: BF114040.D  
Acq: 30 Apr 2019 14:25

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 127568  
Ion Ratio Lower Upper  
152 100  
150 158.1 125.9 188.9  
115 61.6 45.9 68.9



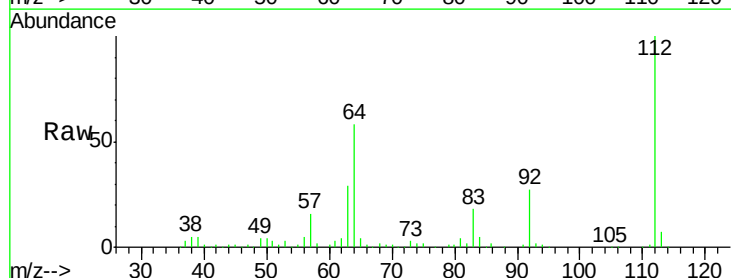
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



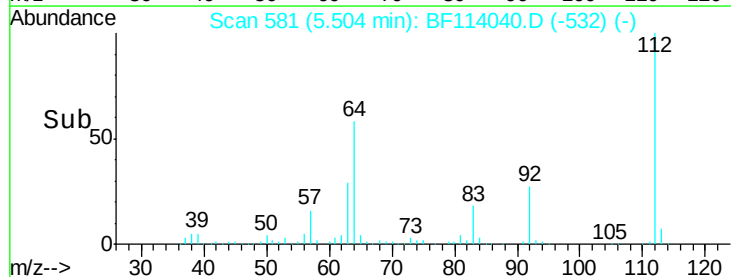
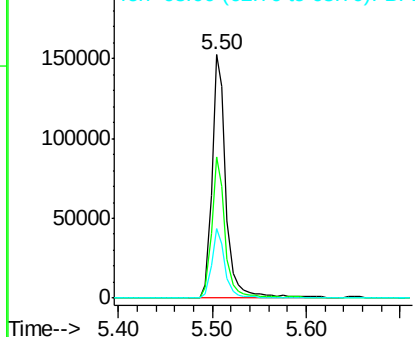
#5

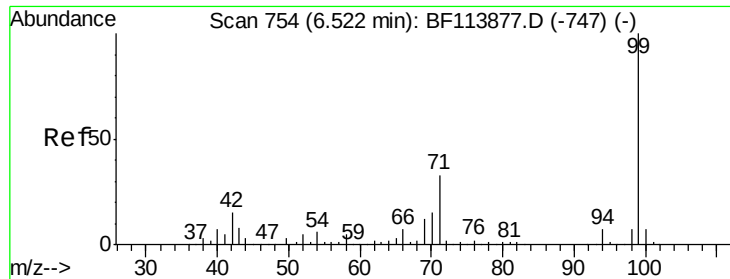
2-Fluorophenol  
Concen: 21.774 ng  
RT: 5.50 min Scan# 581  
Delta R.T. -0.01 min  
Lab File: BF114040.D  
Acq: 30 Apr 2019 14:25

Tgt Ion:112 Resp: 162404  
Ion Ratio Lower Upper  
112 100  
64 57.8 46.6 69.8  
63 28.5 23.1 34.7



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: 24.047 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

Instrument :

BNA\_F

ClientSampleId :

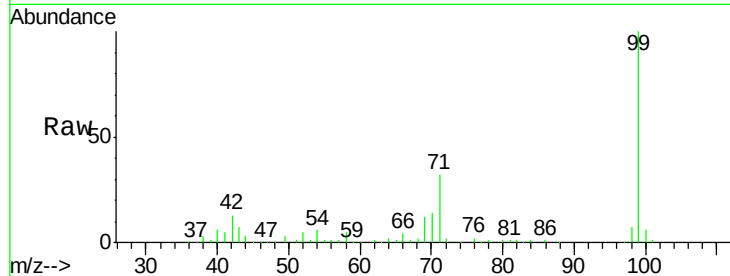
Tot Ion: 99 Resp: 225028

Ion Ratio Lower Upper

99 100

42 13.4 12.5 18.7

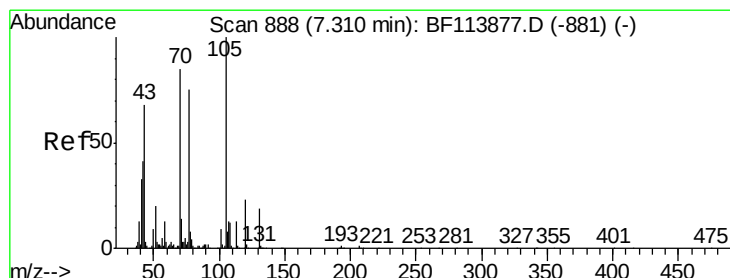
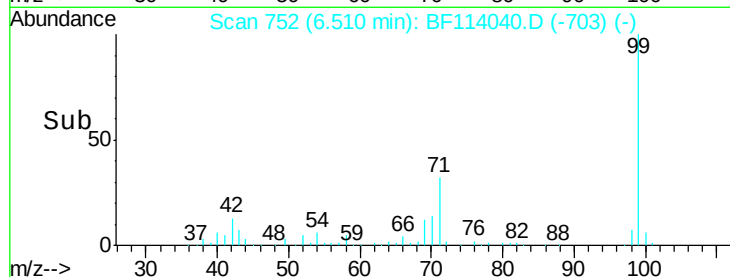
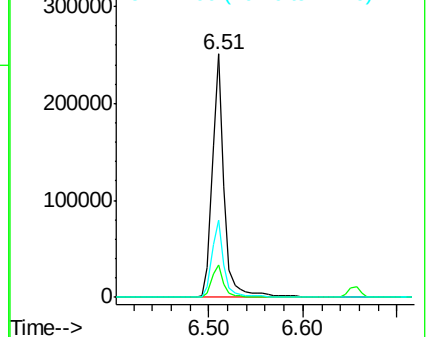
71 31.8 26.9 40.3



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: 2.766 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.13 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

Tgt Ion: 70 Resp: 16764

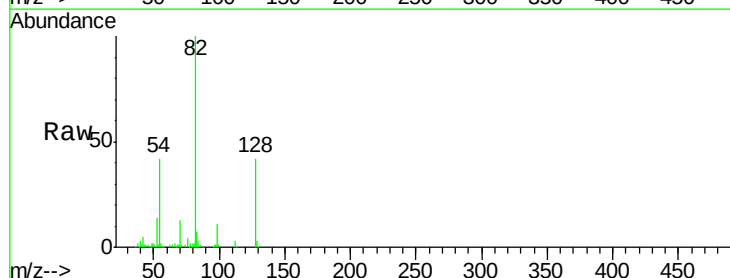
Ion Ratio Lower Upper

70 100

42 42.2 37.3 55.9

101 0.0 7.8 11.8#

130 2.2 18.2 27.2#

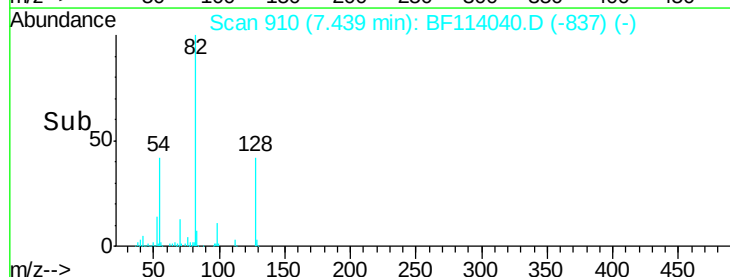
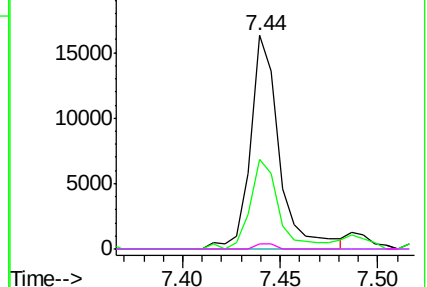


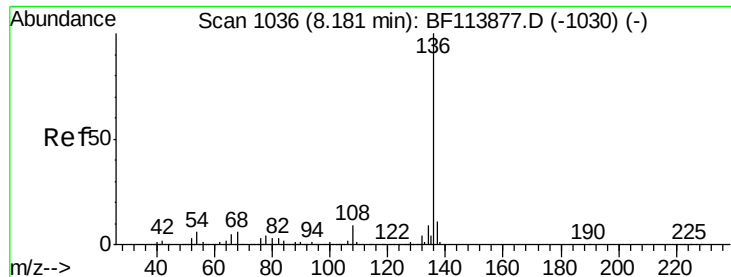
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

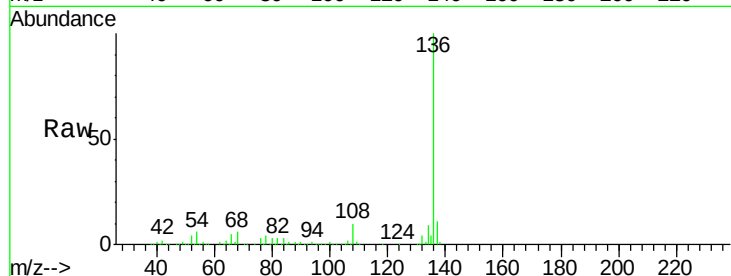




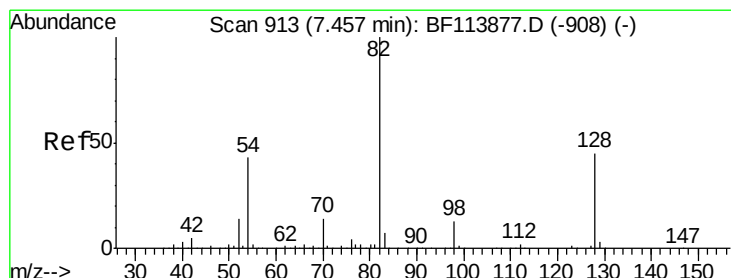
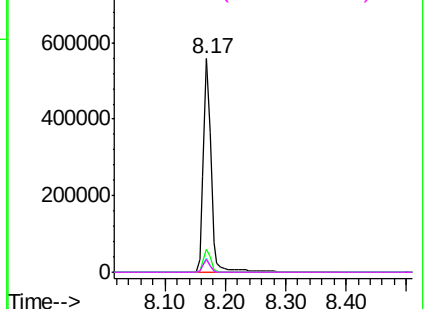
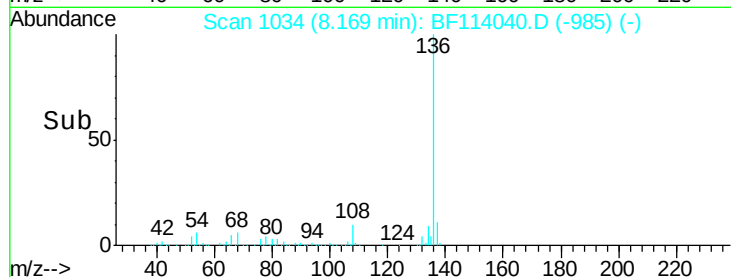
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.17 min Scan# 1034  
Delta R.T. -0.01 min  
Lab File: BF114040.D  
Acq: 30 Apr 2019 14:25

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 499339   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 8.6 12.8 |
| 54          | 6.4   | 5.0 7.6  |
| 68          | 6.3   | 4.9 7.3  |

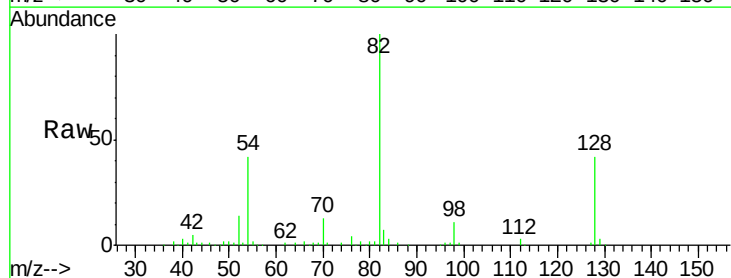


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

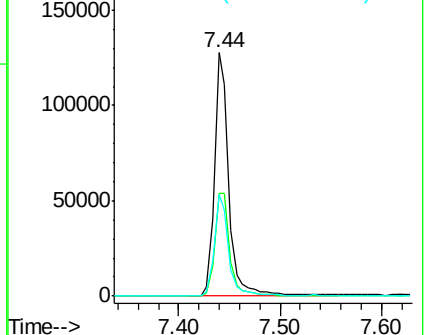
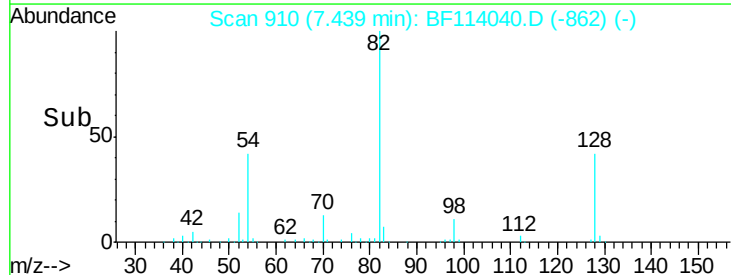


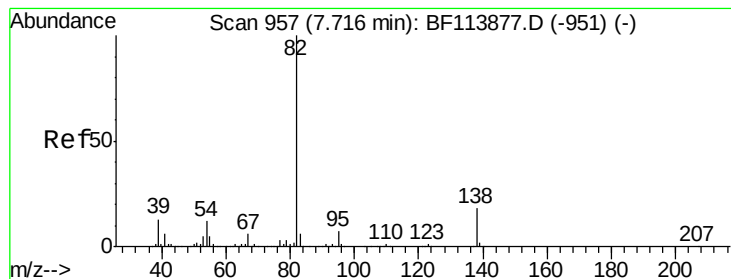
#23  
Nitrobenzene-d5  
Concen: 15.821 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.02 min  
Lab File: BF114040.D  
Acq: 30 Apr 2019 14:25

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 127947    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 42.4  | 36.8 55.2 |
| 54          | 41.5  | 33.8 50.6 |



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: 7.732 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.28 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

Instrument :

BNA\_F

ClientSampleId :

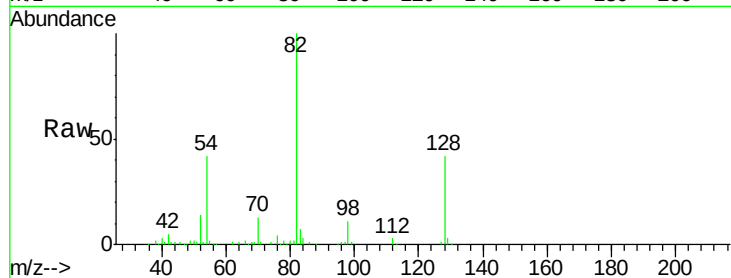
Tot Ion: 82 Resp: 127945

Ion Ratio Lower Upper

82 100

95 0.3 5.4 8.2#

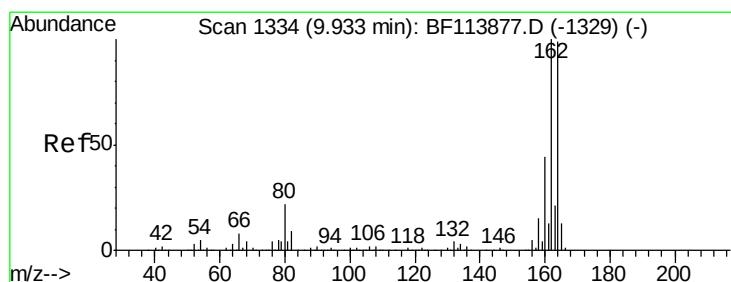
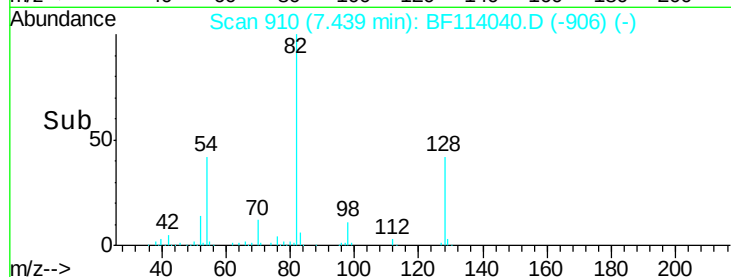
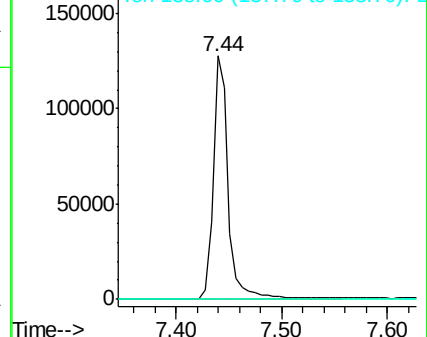
138 0.0 14.6 22.0#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

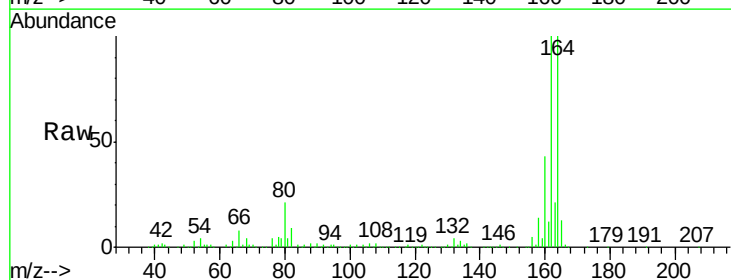
Tgt Ion:164 Resp: 251770

Ion Ratio Lower Upper

164 100

162 100.1 81.1 121.7

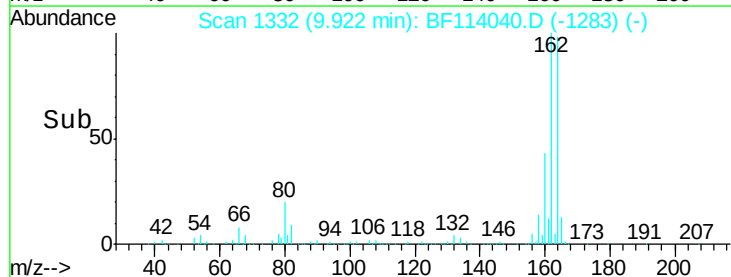
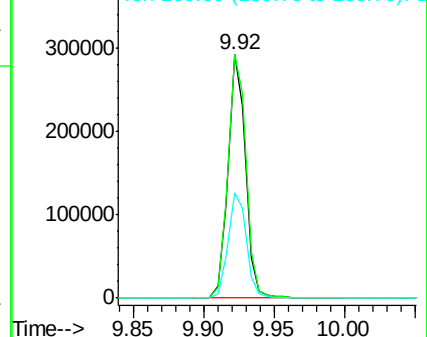
160 43.5 35.8 53.6

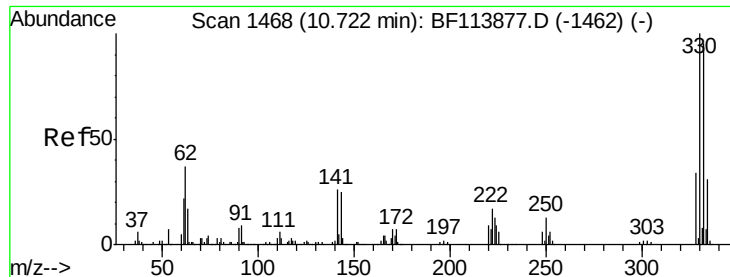


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 21.457 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

Instrument :

BNA\_F

ClientSampleId :

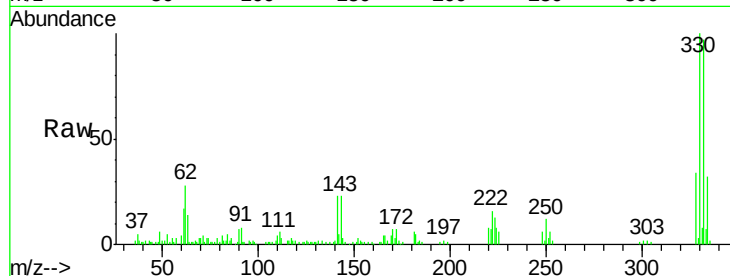
Tot Ion:330 Resp: 65809

Ion Ratio Lower Upper

330 100

332 94.0 77.5 116.3

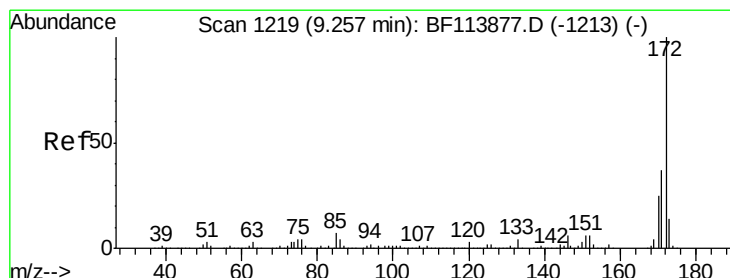
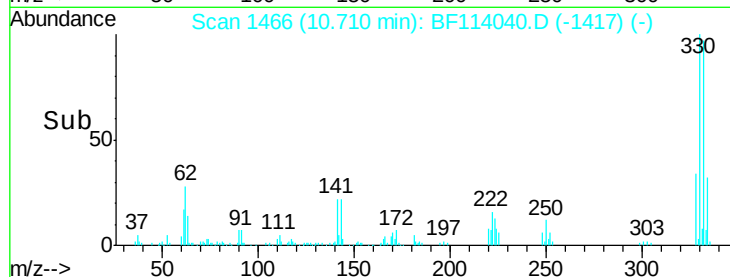
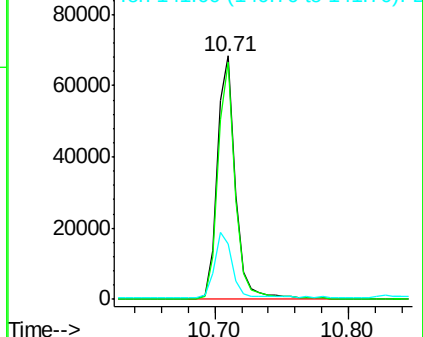
141 27.1 22.2 33.2



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



#45

2-Fluorobiphenyl

Concen: 17.926 ng

RT: 9.24 min Scan# 1216

Delta R.T. -0.02 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

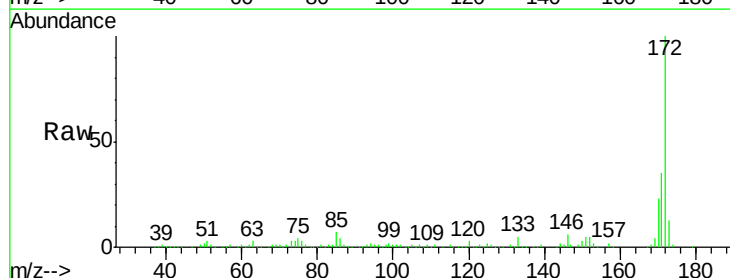
Tgt Ion:172 Resp: 288559

Ion Ratio Lower Upper

172 100

171 34.8 29.4 44.0

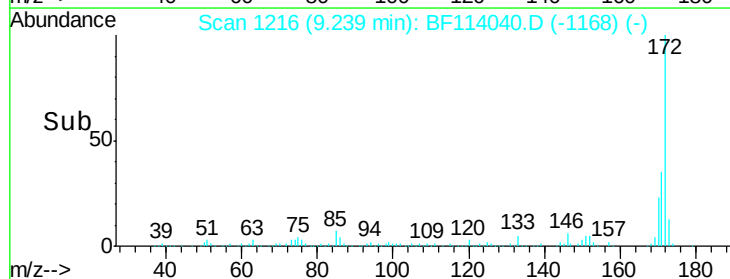
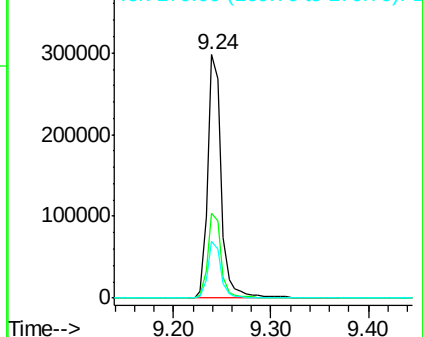
170 23.4 19.9 29.9

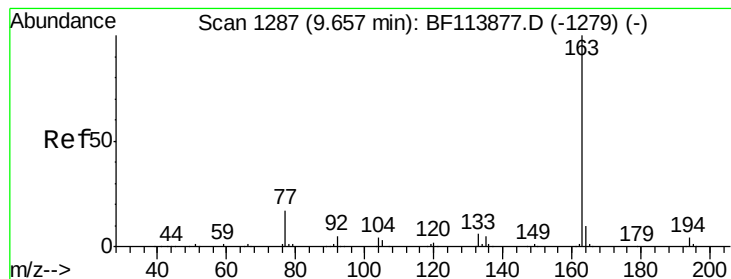


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 2.290 ng

RT: 9.63 min Scan# 1283

Delta R.T. -0.02 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

Instrument :

BNA\_F

ClientSampleId :

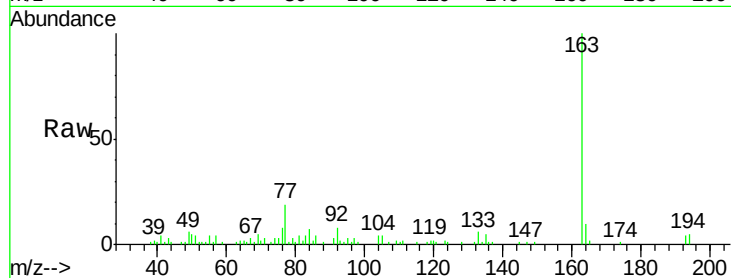
Tot Ion:163 Resp: 41693

Ion Ratio Lower Upper

163 100

194 4.7 3.4 5.2

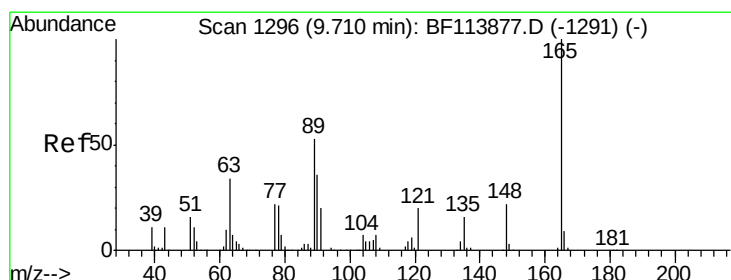
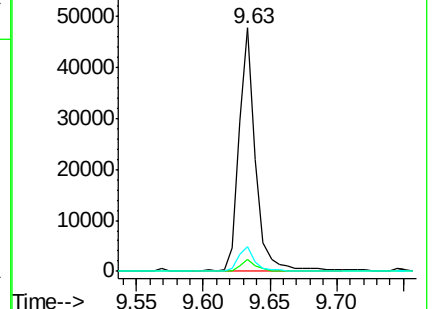
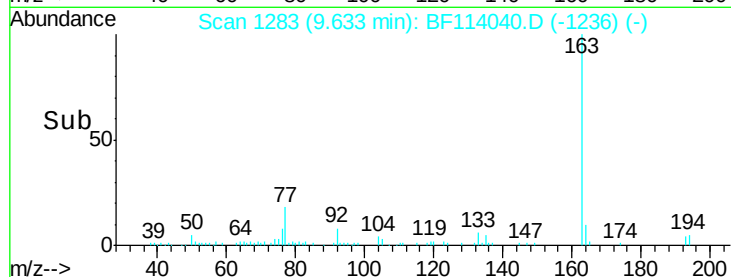
164 10.3 8.5 12.7



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



#51

2,6-Dinitrotoluene

Concen: 8.567 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.21 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

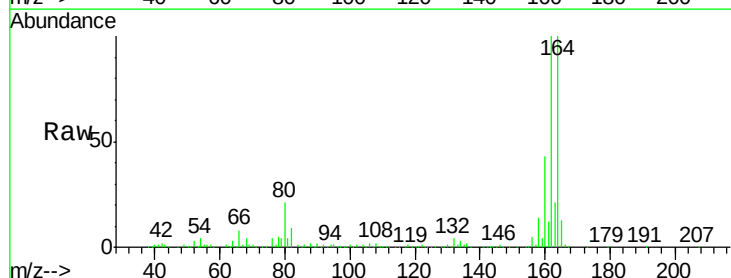
Tgt Ion:165 Resp: 33466

Ion Ratio Lower Upper

165 100

63 1.3 33.8 50.8#

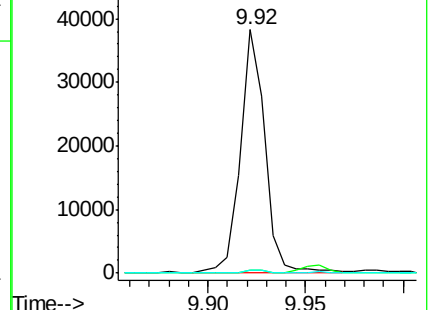
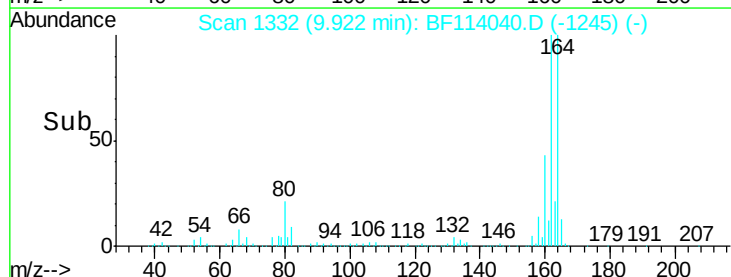
89 1.4 38.2 57.2#



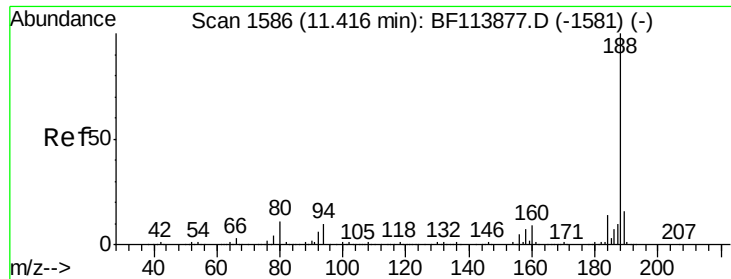
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

Instrument :

BNA\_F

ClientSampled :

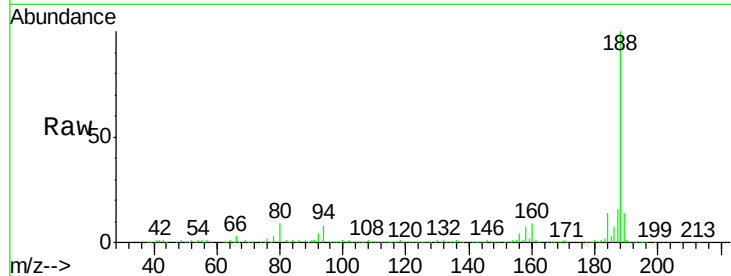
Tot Ion:188 Resp: 453729

Ion Ratio Lower Upper

188 100

94 8.0 8.2 12.4#

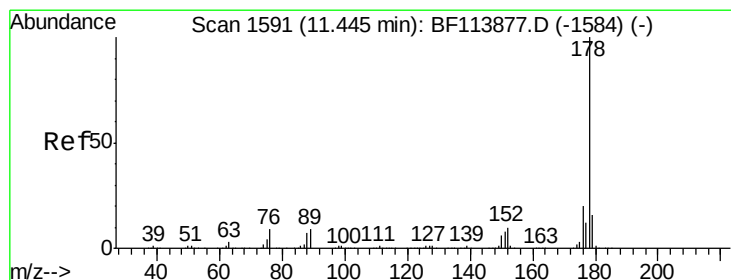
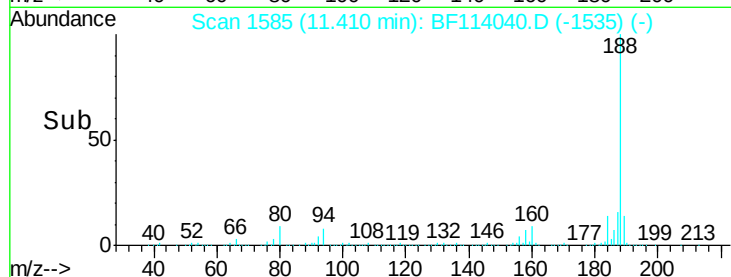
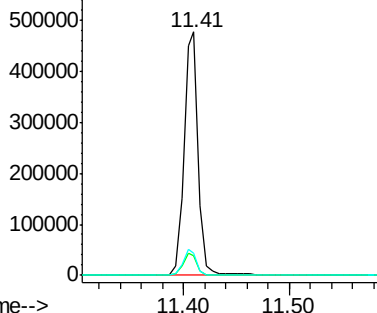
80 9.2 9.0 13.6



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



#71

Phenanthrene

Concen: 3.757 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.02 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

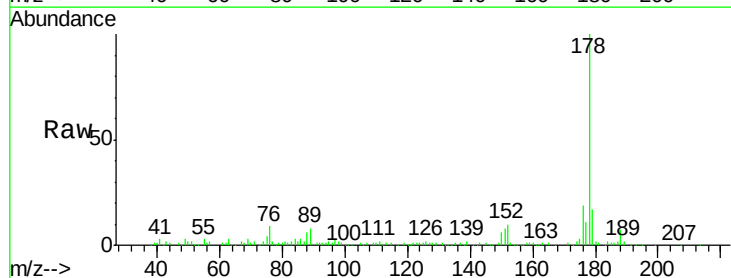
Tgt Ion:178 Resp: 85672

Ion Ratio Lower Upper

178 100

176 19.0 16.1 24.1

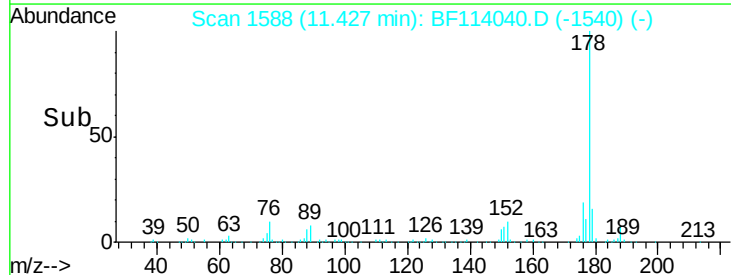
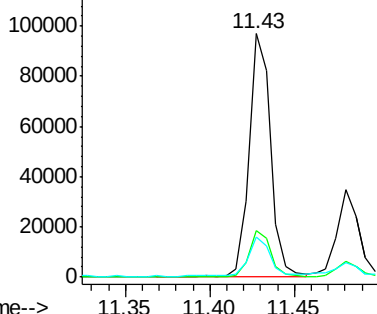
179 16.7 12.8 19.2

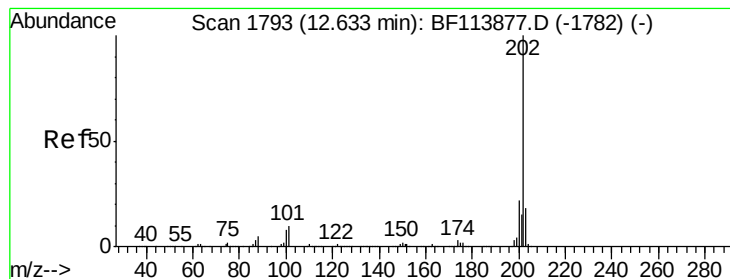


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 5.355 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

Instrument :

BNA\_F

ClientSampleId :

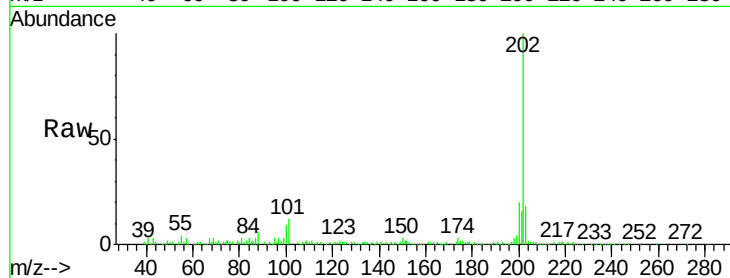
Tot Ion:202 Resp: 133213

Ion Ratio Lower Upper

202 100

101 12.2 0.0 32.9

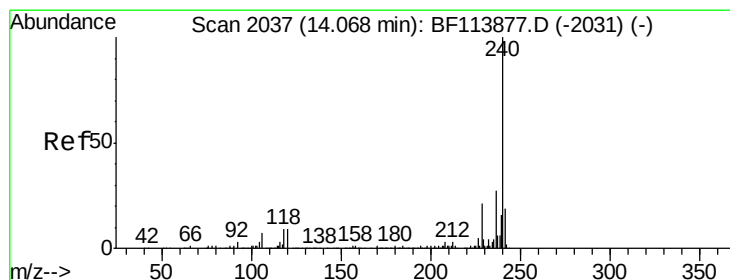
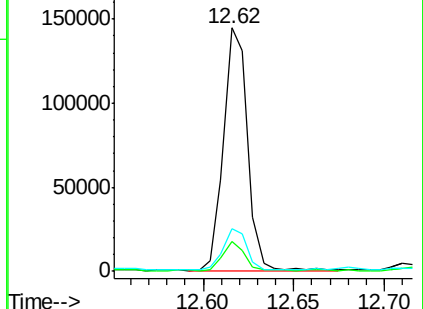
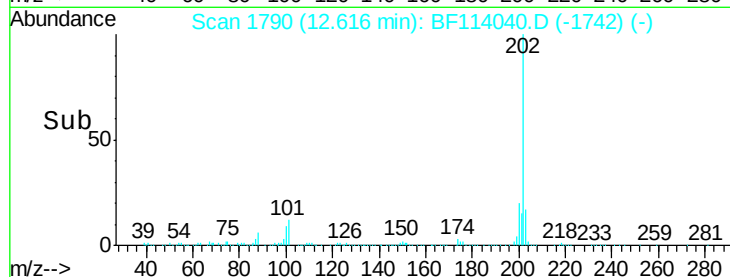
203 17.6 0.0 38.2



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.02 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

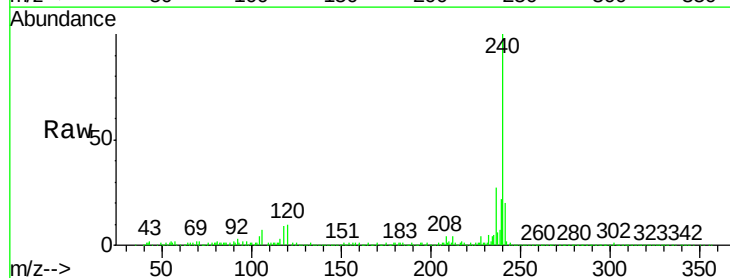
Tgt Ion:240 Resp: 389576

Ion Ratio Lower Upper

240 100

120 10.2 9.3 13.9

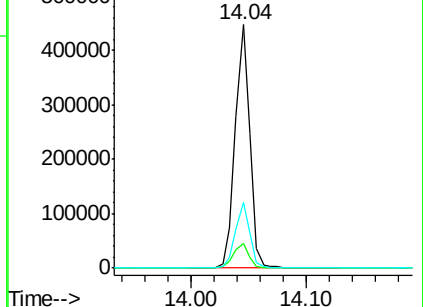
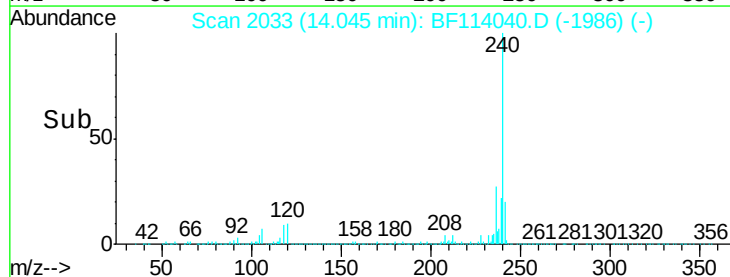
236 26.9 21.2 31.8

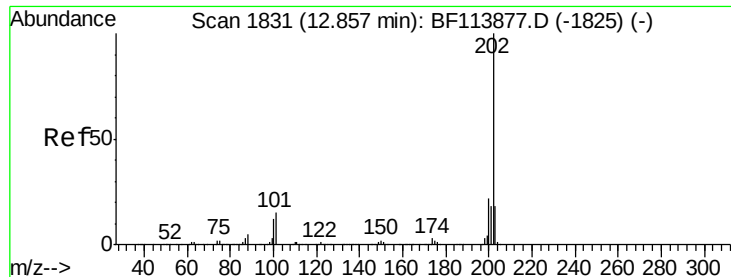


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 5.063 ng

RT: 12.84 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

Instrument :

BNA\_F

ClientSampleId :

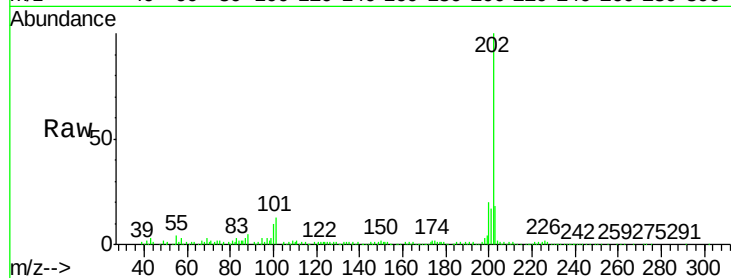
Tot Ion:202 Resp: 137946

Ion Ratio Lower Upper

202 100

200 20.1 17.7 26.5

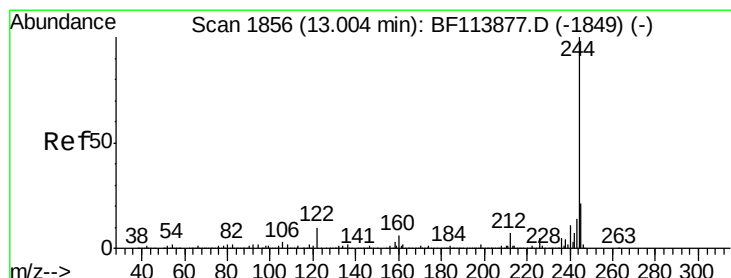
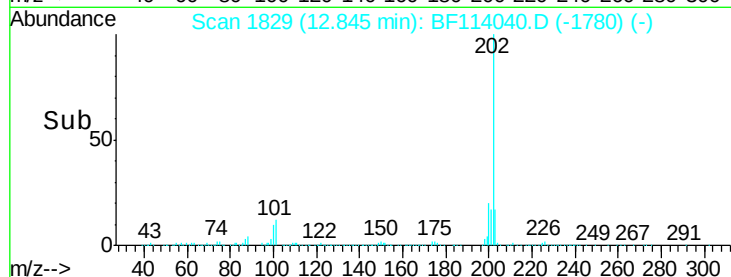
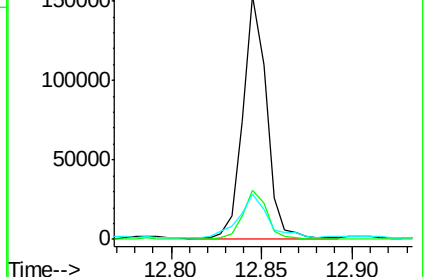
203 18.4 15.0 22.6



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



#79

Terphenyl-d14

Concen: 15.384 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.02 min

Lab File: BF114040.D

Acq: 30 Apr 2019 14:25

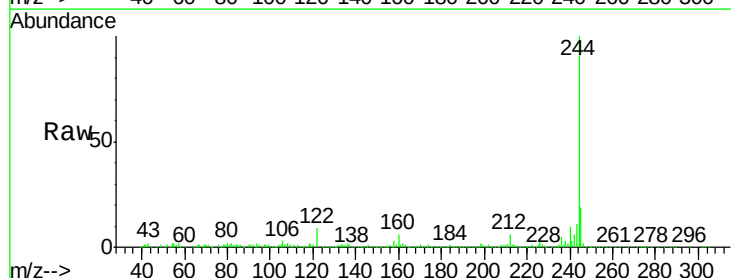
Tgt Ion:244 Resp: 292328

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.2

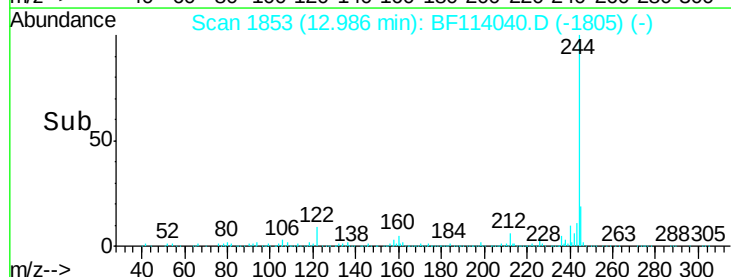
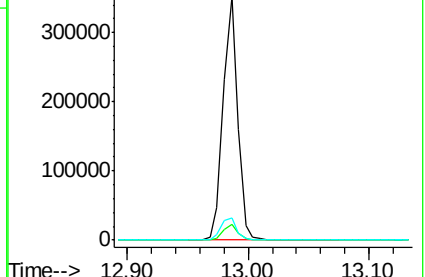
122 9.1 7.6 11.4

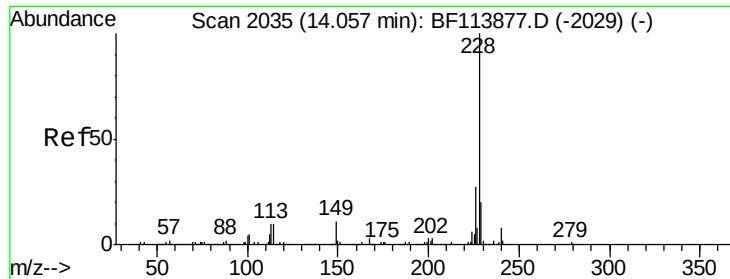


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

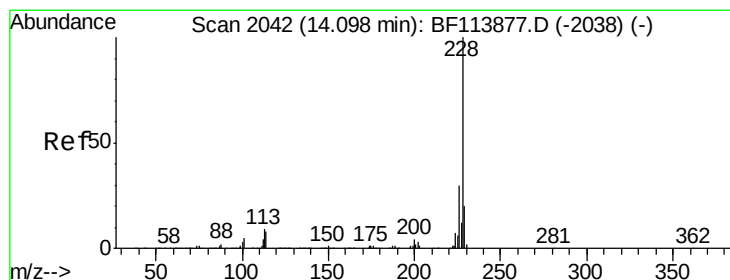
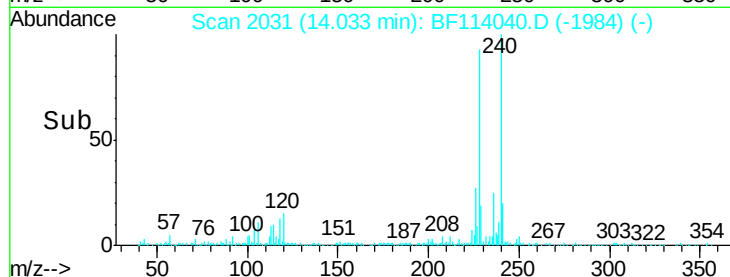
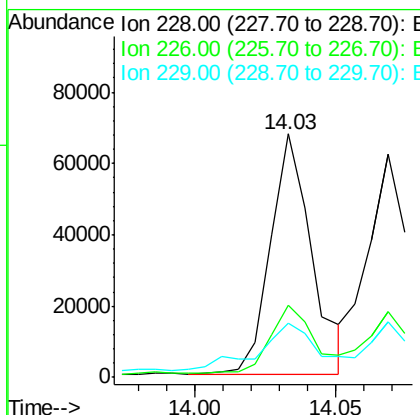
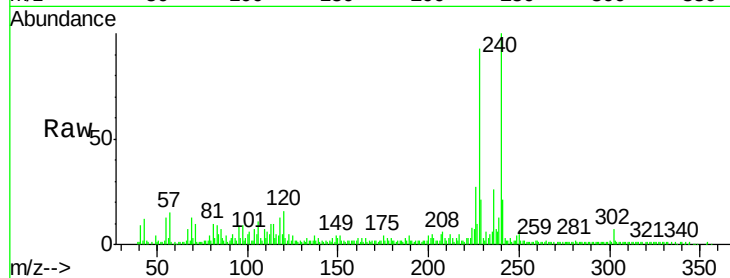




#81  
Benzo(a)anthracene  
Concen: 2.982 ng  
RT: 14.03 min Scan# 2031  
Delta R.T. -0.02 min  
Lab File: BF114040.D  
Acq: 30 Apr 2019 14:25

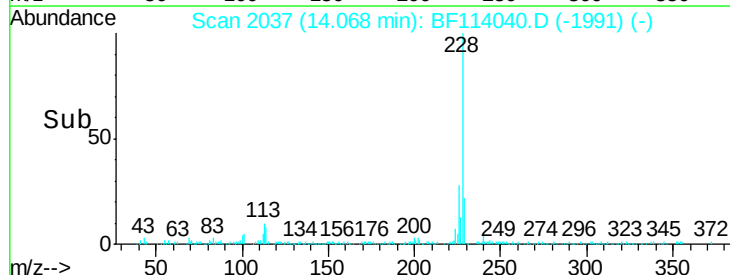
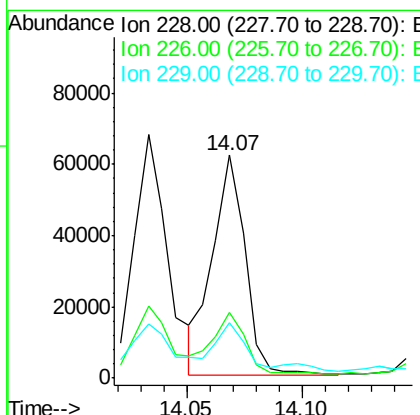
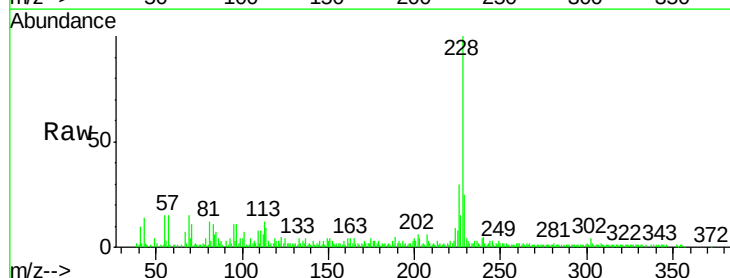
Instrument :  
BNA\_F  
ClientSampleId :

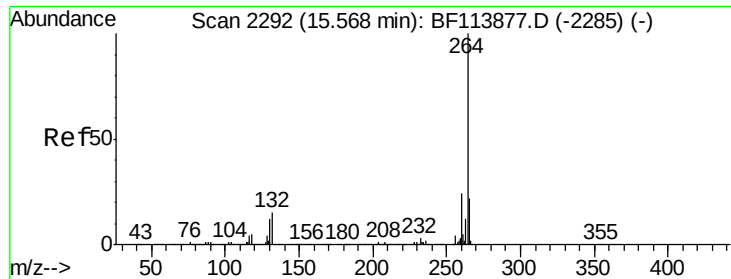
Tot Ion:228 Resp: 68437  
Ion Ratio Lower Upper  
228 100  
226 29.4 22.2 33.2  
229 22.2 16.0 24.0



#83  
Chrysene  
Concen: 2.705 ng  
RT: 14.07 min Scan# 2037  
Delta R.T. -0.03 min  
Lab File: BF114040.D  
Acq: 30 Apr 2019 14:25

Tgt Ion:228 Resp: 60476  
Ion Ratio Lower Upper  
228 100  
226 29.6 25.2 37.8  
229 24.9 16.7 25.1

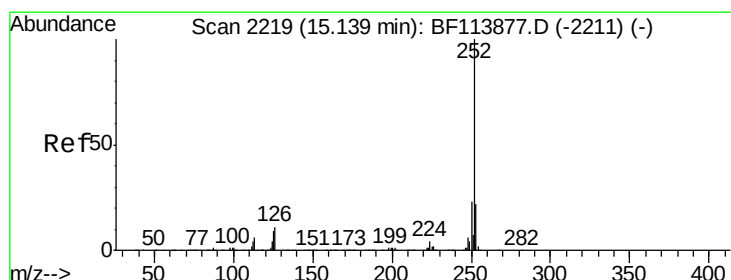
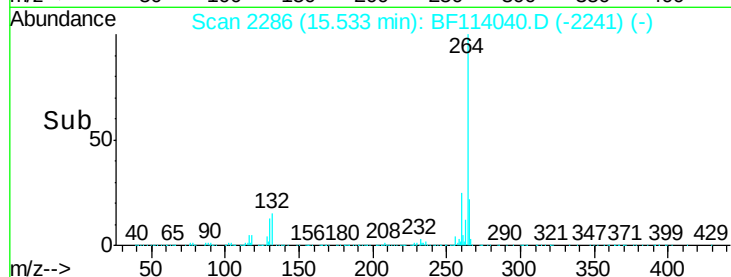
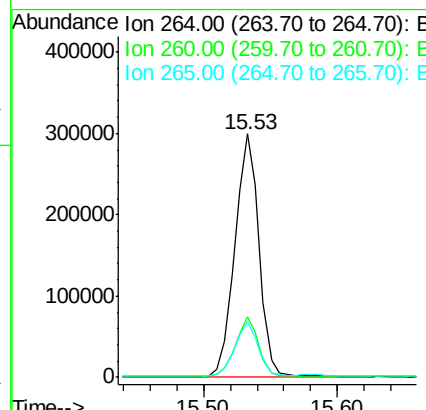
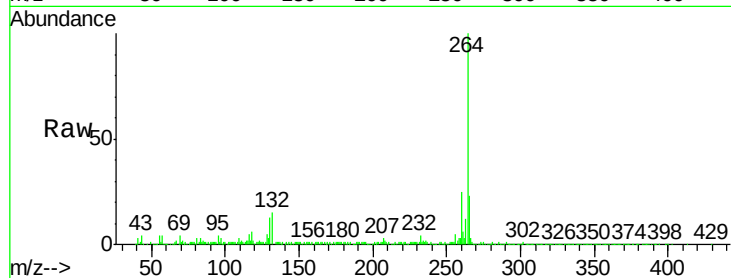




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.53 min Scan# 2286  
Delta R.T. -0.04 min  
Lab File: BF114040.D  
Acq: 30 Apr 2019 14:25

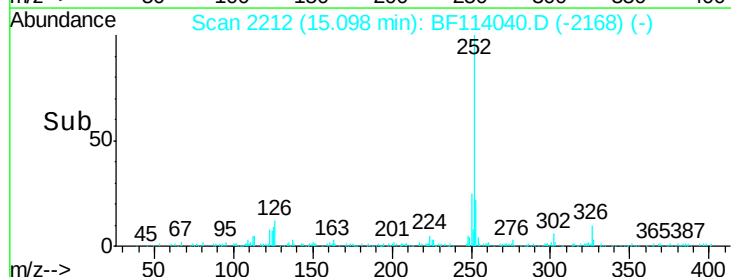
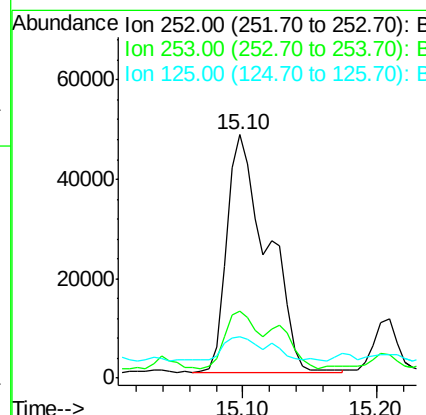
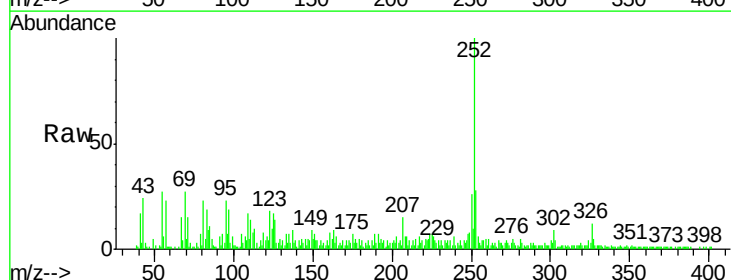
Instrument :  
BNA\_F  
ClientSampleId :

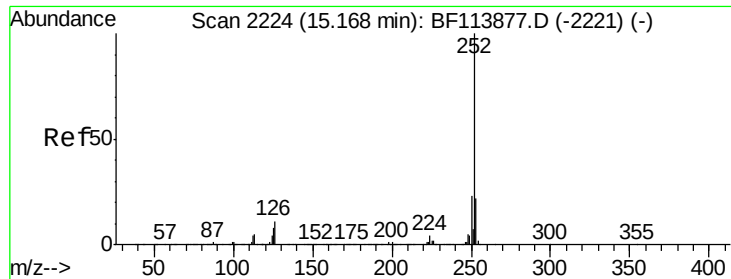
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.0  | 18.9  | 28.3  |
| 265     | 22.5  | 17.3  | 25.9  |



#88  
Benzo(b)fluoranthene  
Concen: 4.237 ng  
RT: 15.10 min Scan# 2212  
Delta R.T. -0.04 min  
Lab File: BF114040.D  
Acq: 30 Apr 2019 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.6  | 17.8  | 26.6# |
| 125     | 17.1  | 7.0   | 10.6# |

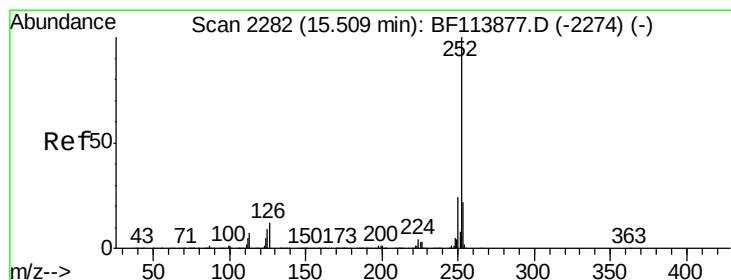
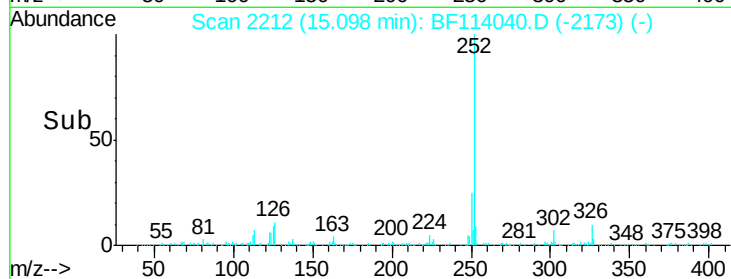
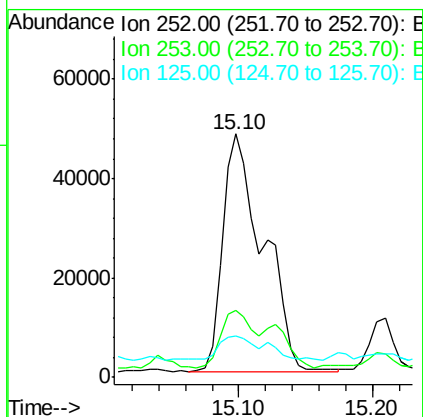
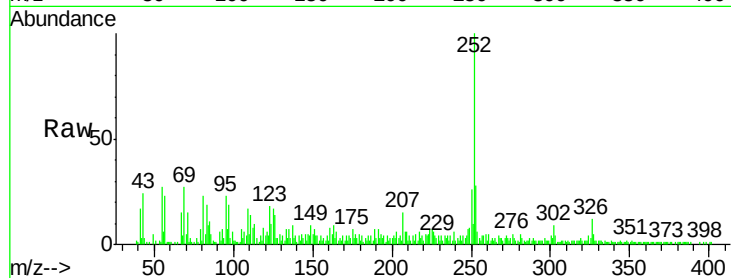




#89  
Benzo(k)fluoranthene  
Concen: 4.926 ng  
RT: 15.10 min Scan# 2212  
Delta R.T. -0.07 min  
Lab File: BF114040.D  
Acq: 30 Apr 2019 14:25

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 100736  
Ion Ratio Lower Upper  
252 100  
253 27.6 18.2 27.2#  
125 17.1 7.4 11.2#



#90  
Benzo(a)pyrene  
Concen: 2.616 ng  
RT: 15.47 min Scan# 2275  
Delta R.T. -0.04 min  
Lab File: BF114040.D  
Acq: 30 Apr 2019 14:25

Tgt Ion:252 Resp: 53799  
Ion Ratio Lower Upper  
252 100  
253 24.3 17.5 26.3  
125 16.1 8.5 12.7#

