

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\  
 Data File : BF118848.D  
 Acq On : 7 Feb 2020 14:08  
 Operator : CG/JU  
 Sample : L1431-04  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 08 03:35:14 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 03 16:26:03 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.81  | 152  | 241406   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 915486   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.85  | 164  | 545101   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.33 | 188  | 1087366  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.97 | 240  | 1022906  | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.42 | 264  | 1016079  | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.43  | 112  | 1253603  | 98.30 | ng    | 0.00     |
| 7) Phenol-d6                | 6.45  | 99   | 1519219  | 95.96 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 995876   | 64.84 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.64 | 330  | 627141   | 96.15 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.17  | 172  | 2077956  | 68.15 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.92 | 244  | 2883465  | 57.90 | ng    | 0.00     |

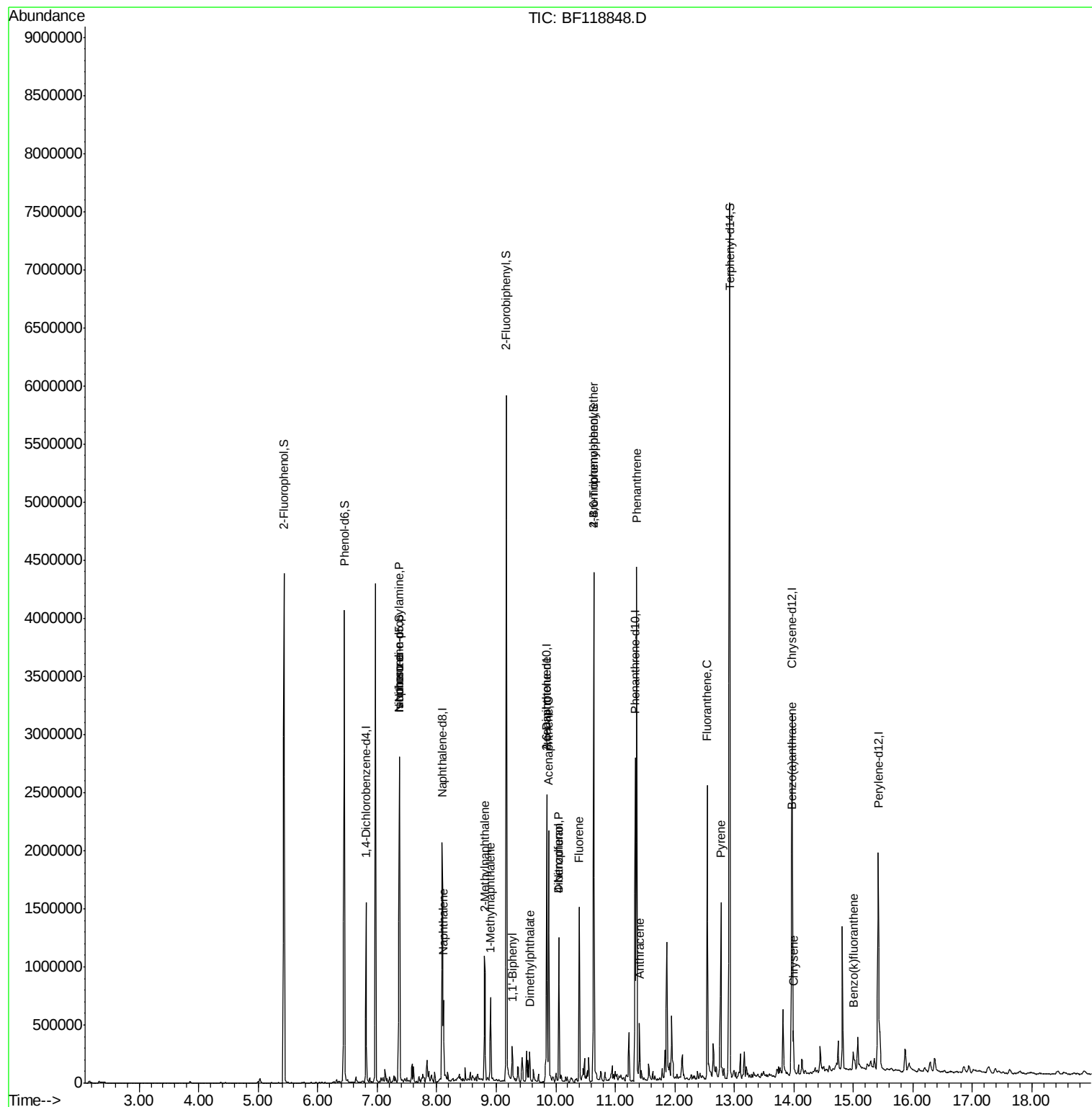
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.37  | 77   | 824      | Below Cal |       | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 135129   | 13.951    | ng    | # 76   |
| 25) Isophorone                 | 7.37  | 82   | 995860   | 36.077    | ng    | # 63   |
| 31) Naphthalene                | 8.12  | 128  | 254193   | 6.071     | ng    | 98     |
| 37) 2-Methylnaphthalene        | 8.80  | 142  | 304813   | 10.497    | ng    | 99     |
| 38) 1-Methylnaphthalene        | 8.90  | 142  | 191884   | 7.024     | ng    | 98     |
| 46) 1,1'-Biphenyl              | 9.27  | 154  | 87270    | 2.314     | ng    | 96     |
| 50) Dimethylphthalate          | 9.56  | 163  | 112255   | 3.024     | ng    | 97     |
| 51) 2,6-Dinitrotoluene         | 9.85  | 165  | 76946    | 9.060     | ng    | # 31   |
| 52) Acenaphthene               | 9.88  | 154  | 454667   | 15.244    | ng    | 99     |
| 55) Dibenzofuran               | 10.05 | 168  | 486474   | 11.286    | ng    | 96     |
| 56) 4-Nitrophenol              | 10.05 | 139  | 173908   | 25.512    | ng    | # 11   |
| 58) Fluorene                   | 10.40 | 166  | 459525   | 14.171    | ng    | 97     |
| 67) 4-Bromophenyl-phenylether  | 10.64 | 248  | 41175    | 3.201     | ng    | # 1    |
| 71) Phenanthrene               | 11.36 | 178  | 1754452  | 32.793    | ng    | 99     |
| 72) Anthracene                 | 11.41 | 178  | 195537   | 3.674     | ng    | 97     |
| 75) Fluoranthene               | 12.54 | 202  | 969134   | 16.591    | ng    | 99     |
| 78) Pyrene                     | 12.77 | 202  | 678749   | 9.672     | ng    | 96     |
| 81) Benzo(a)anthracene         | 13.96 | 228  | 145729   | 2.394     | ng    | 98     |
| 83) Chrysene                   | 13.99 | 228  | 132607   | 2.171     | ng    | 98     |
| 89) Benzo(k)fluoranthene       | 15.00 | 252  | 125124   | 2.279     | ng    | # 98   |

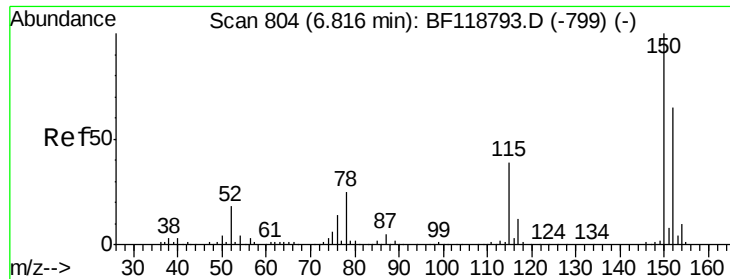
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Feb 03 16:26:03 2020  
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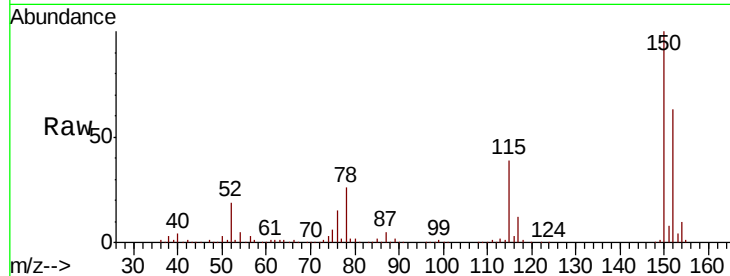


#1

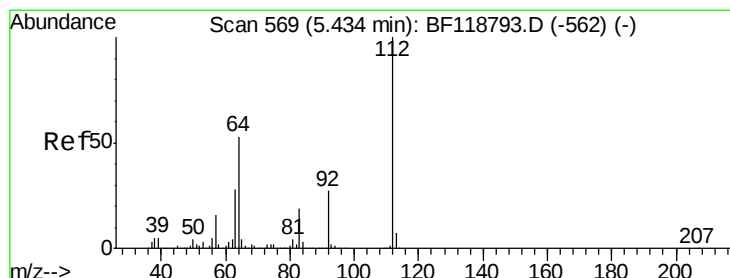
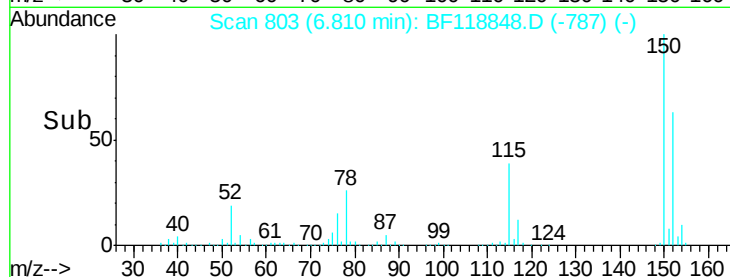
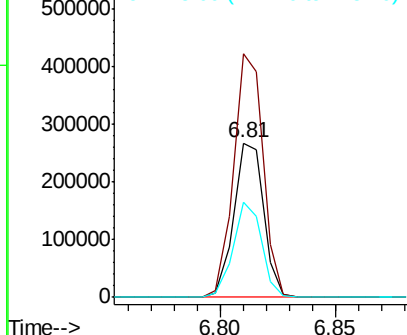
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.81 min Scan# 803  
 Delta R.T. -0.01 min  
 Lab File: BF118848.D  
 Acq: 7 Feb 2020 14:08

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 241406  
 Ion Ratio Lower Upper  
 152 100  
 150 157.8 123.6 185.4  
 115 62.0 48.2 72.2



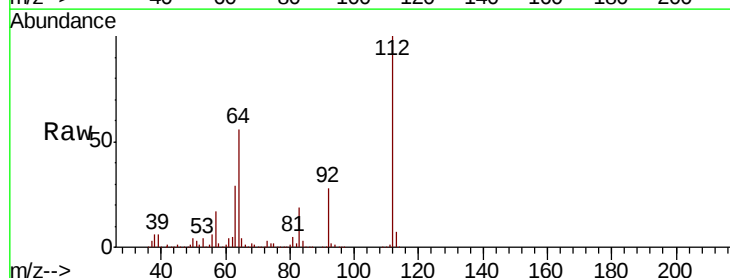
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



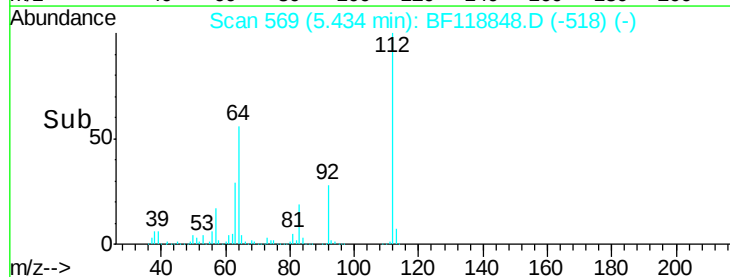
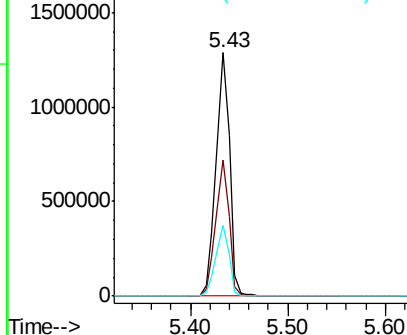
#5

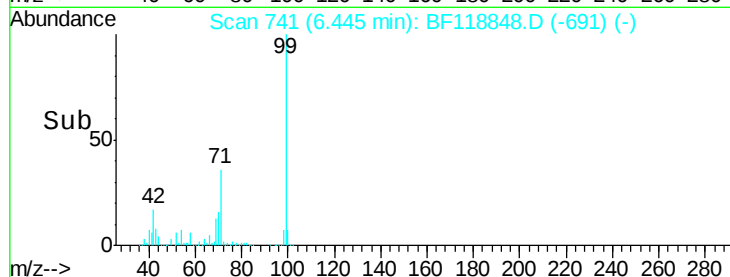
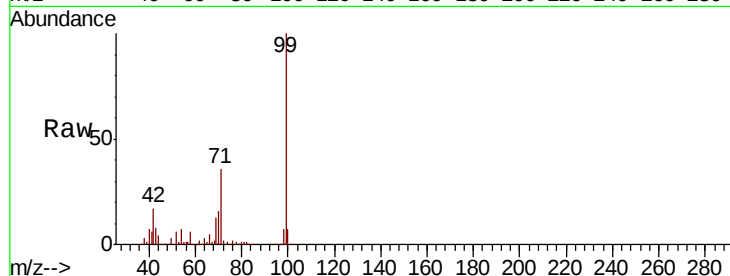
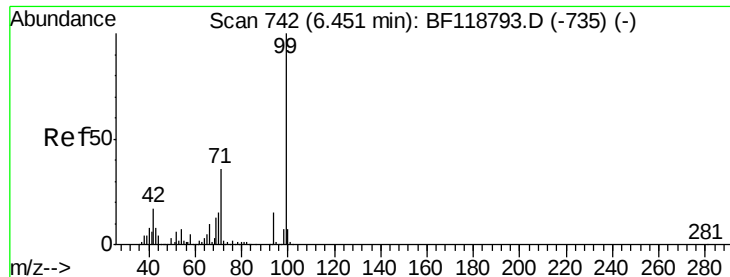
2-Fluorophenol  
 Concen: 98.298 ng  
 RT: 5.43 min Scan# 569  
 Delta R.T. -0.00 min  
 Lab File: BF118848.D  
 Acq: 7 Feb 2020 14:08

Tgt Ion:112 Resp: 1253603  
 Ion Ratio Lower Upper  
 112 100  
 64 56.0 42.6 63.8  
 63 29.2 22.2 33.4



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: 95.964 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

Instrument :

BNA\_F

ClientSampleId :

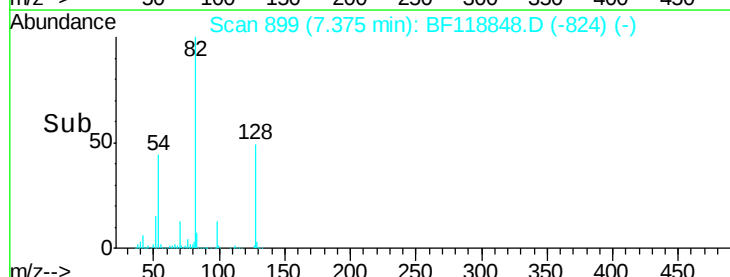
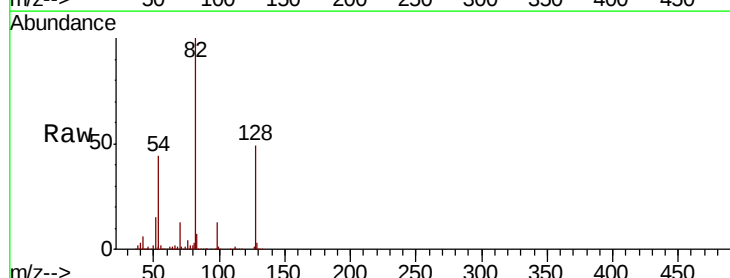
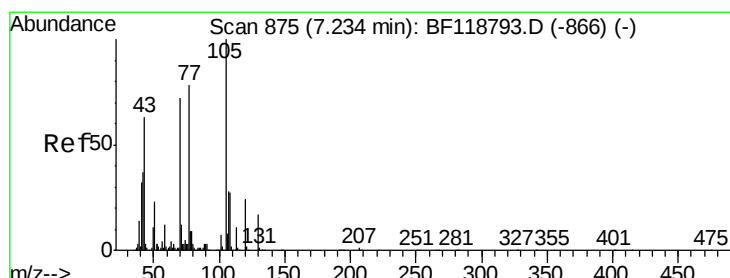
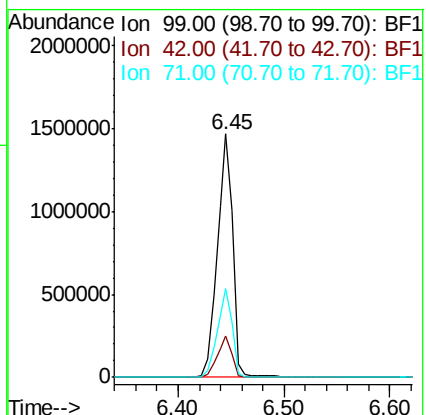
Tot Ion: 99 Resp: 1519219

Ion Ratio Lower Upper

99 100

42 17.2 13.4 20.0

71 36.3 29.0 43.6



#19

n-Nitroso-di-n-propylamine

Concen: 13.951 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.14 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

Tgt Ion: 70 Resp: 135129

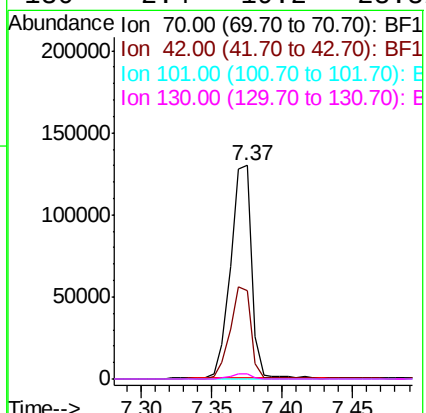
Ion Ratio Lower Upper

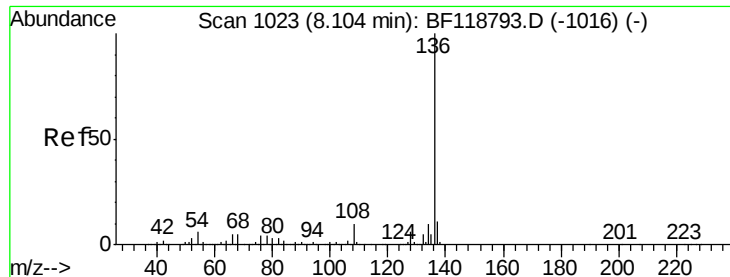
70 100

42 41.6 41.5 62.3

101 0.0 8.3 12.5#

130 2.4 19.2 28.8#

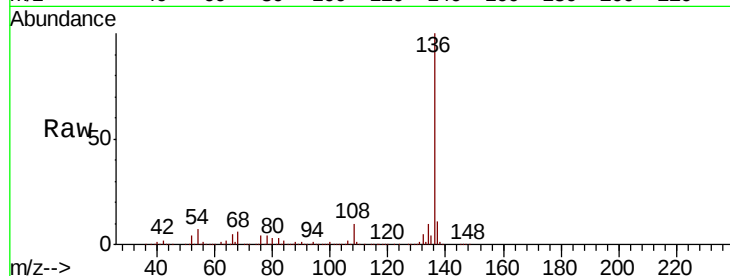




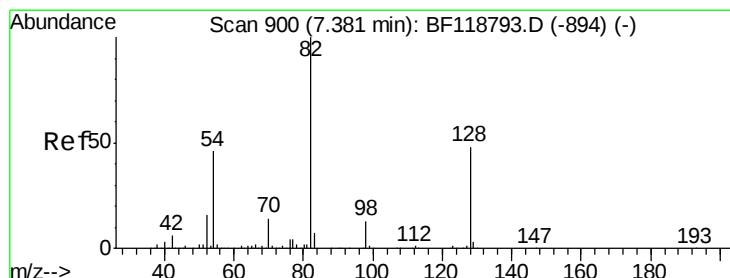
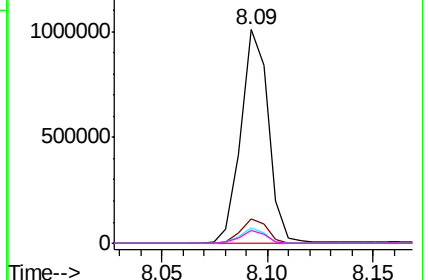
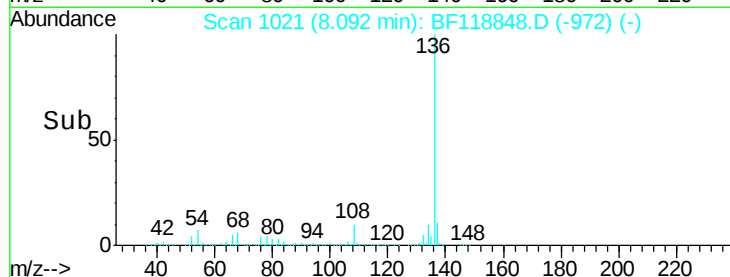
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.01 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 915486 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 11.4    | 8.7   | 13.1   |  |
| 54 7.0      | 5.0   | 7.6    |  |
| 68 6.0      | 4.2   | 6.4    |  |

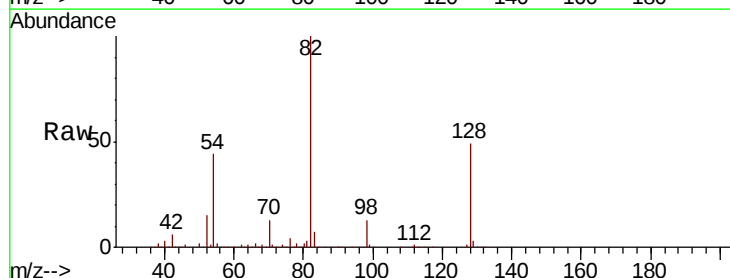


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

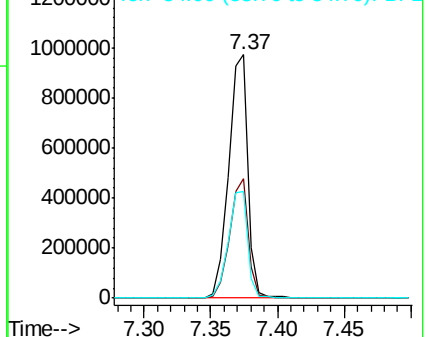
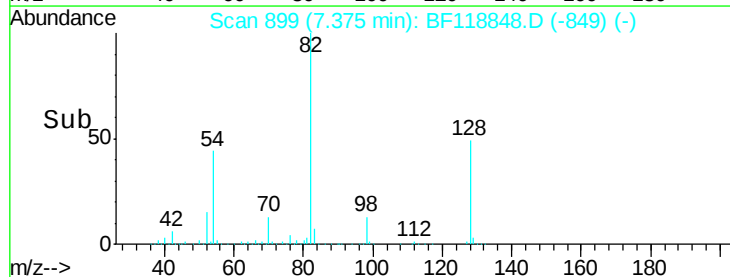


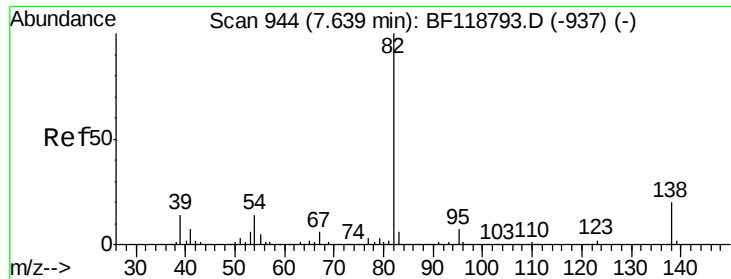
#23  
Nitrobenzene-d5  
Concen: 64.839 ng  
RT: 7.37 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 995876 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 49.2    | 38.5 57.7    |
| 54 43.7     | 36.7 55.1    |



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: 36.077 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.26 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

Instrument :

BNA\_F

ClientSampleId :

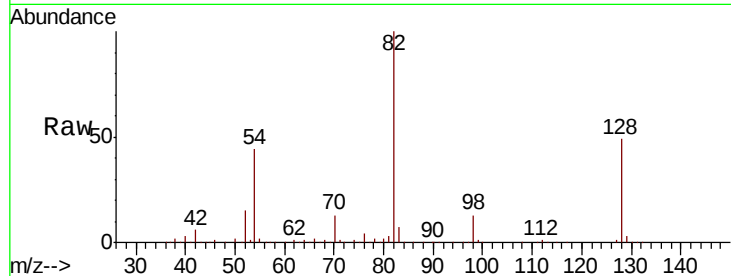
Tot Ion: 82 Resp: 995860

Ion Ratio Lower Upper

82 100

95 0.0 6.0 9.0#

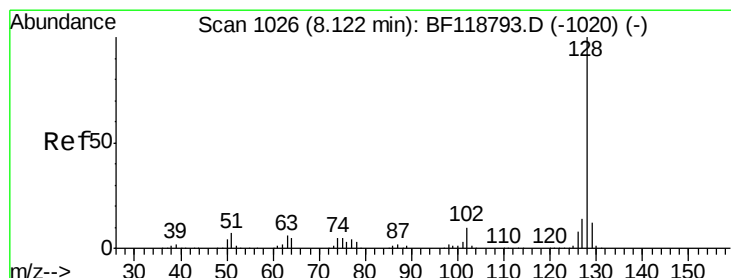
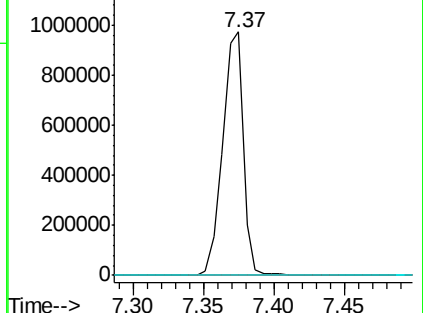
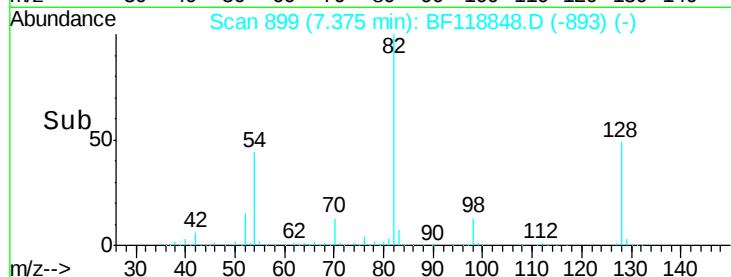
138 0.0 15.7 23.5#



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



#31

Naphthalene

Concen: 6.071 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

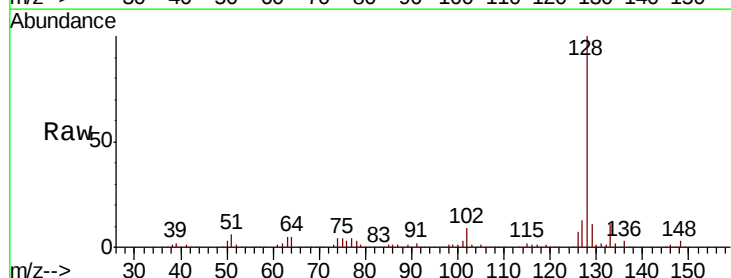
Tgt Ion: 128 Resp: 254193

Ion Ratio Lower Upper

128 100

129 10.8 9.4 14.2

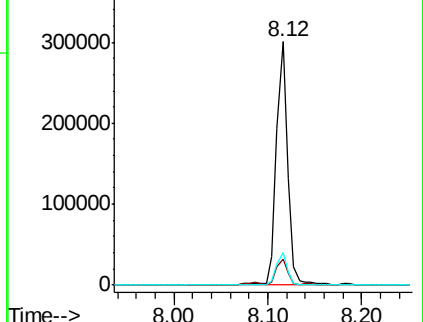
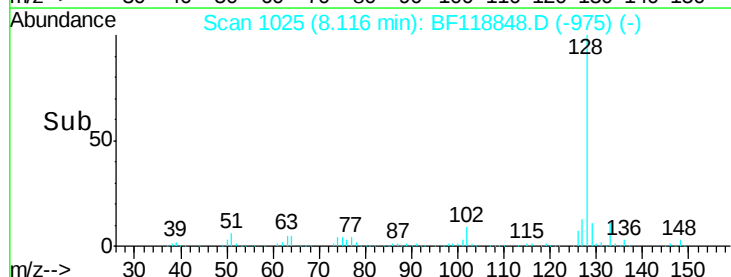
127 13.2 11.3 16.9

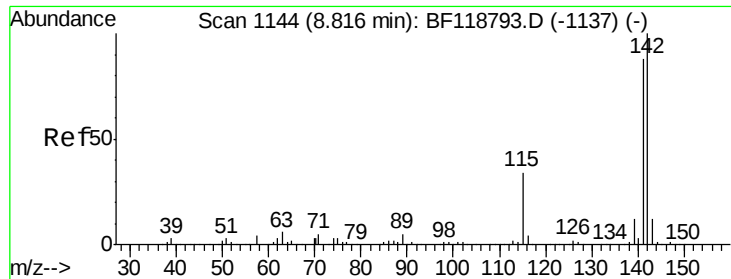


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

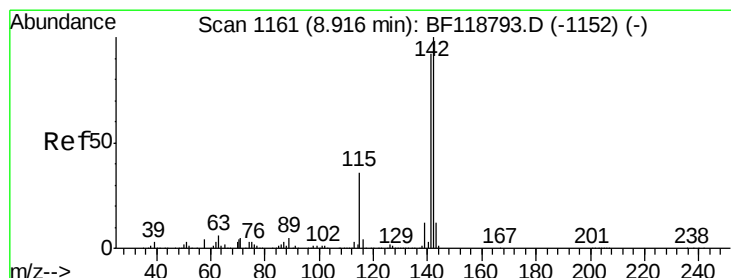
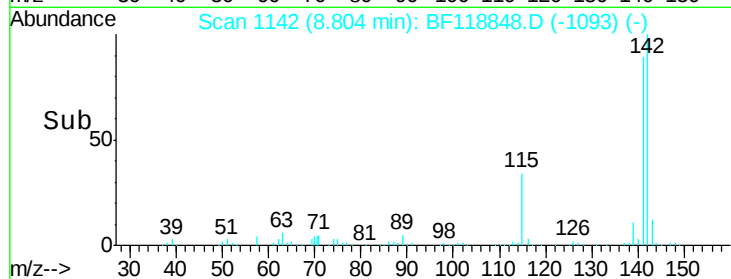
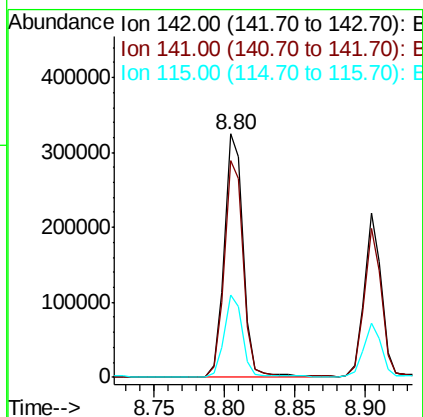
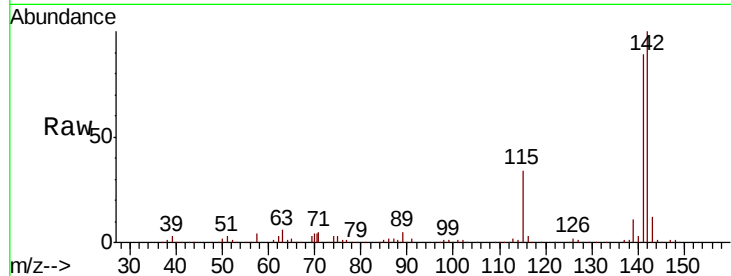




#37  
2-Methylnaphthalene  
Concen: 10.497 ng  
RT: 8.80 min Scan# 1142  
Delta R.T. -0.01 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

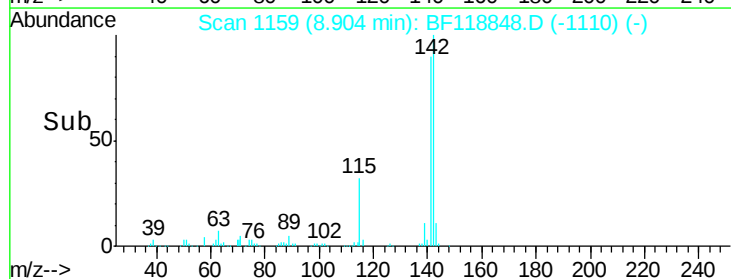
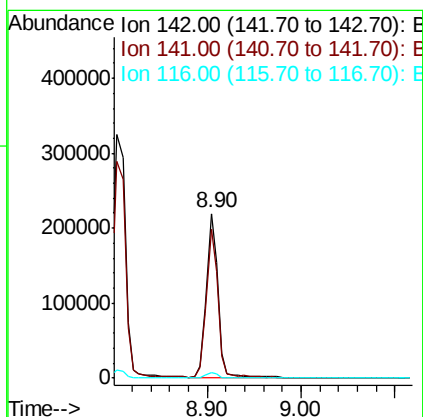
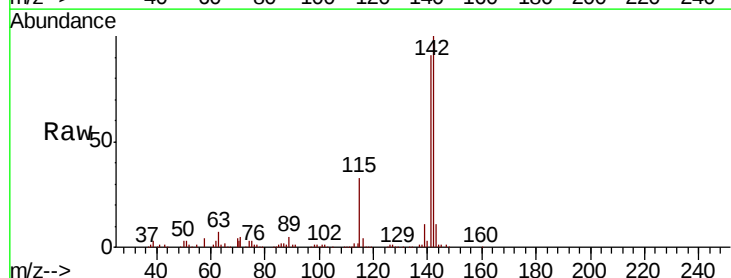
Instrument :  
BNA\_F  
ClientSampleId :

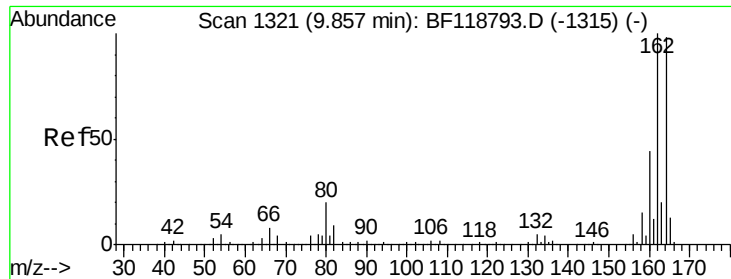
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.0  | 70.1  | 105.1 |
| 115     | 33.8  | 27.3  | 40.9  |



#38  
1-Methylnaphthalene  
Concen: 7.024 ng  
RT: 8.90 min Scan# 1159  
Delta R.T. -0.01 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.6  | 73.8  | 110.6 |
| 116     | 3.7   | 3.0   | 4.4   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

Instrument :

BNA\_F

ClientSampleId :

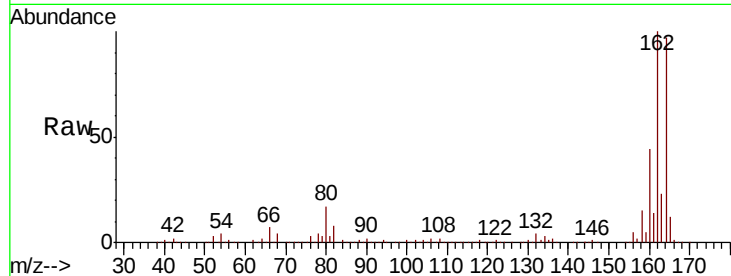
Tot Ion:164 Resp: 545101

Ion Ratio Lower Upper

164 100

162 102.6 81.4 122.2

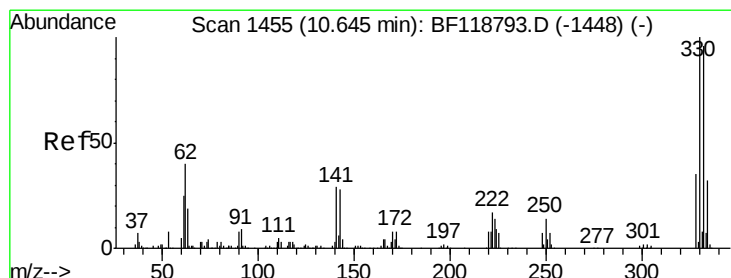
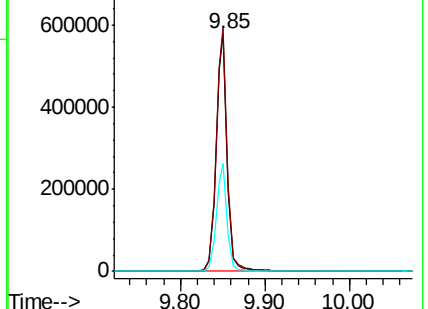
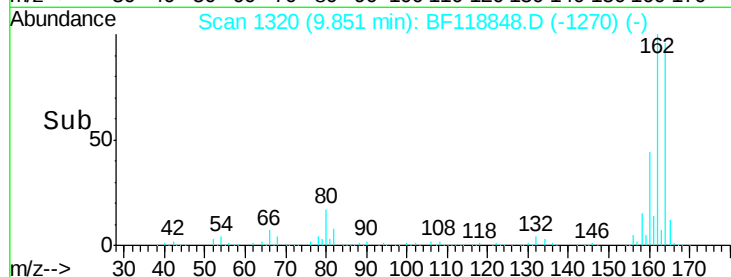
160 45.5 35.6 53.4



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: 96.154 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

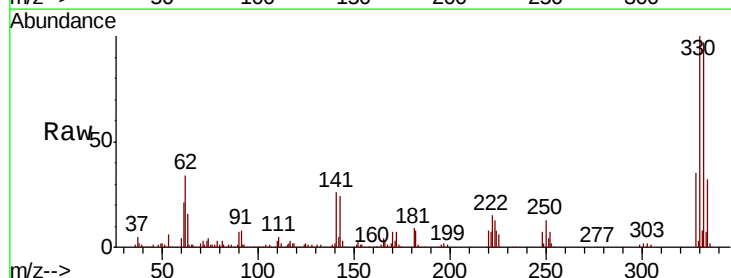
Tgt Ion:330 Resp: 627141

Ion Ratio Lower Upper

330 100

332 97.6 77.3 115.9

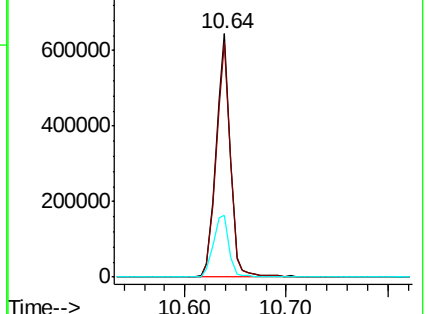
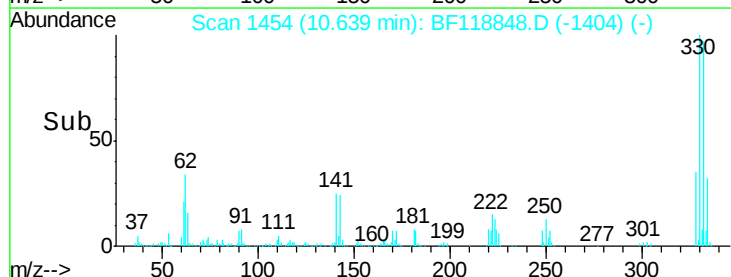
141 28.4 22.4 33.6

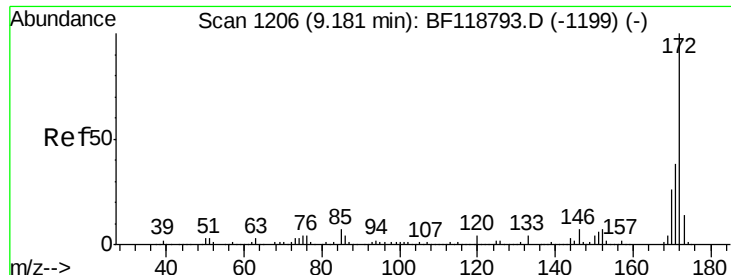


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

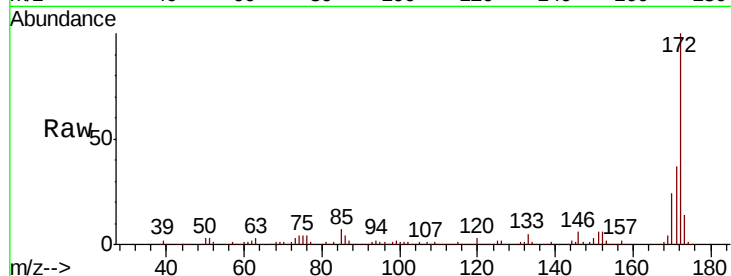




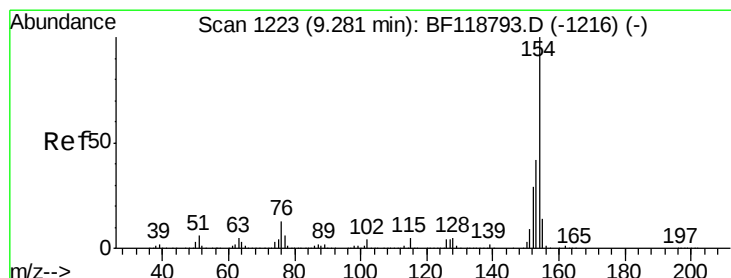
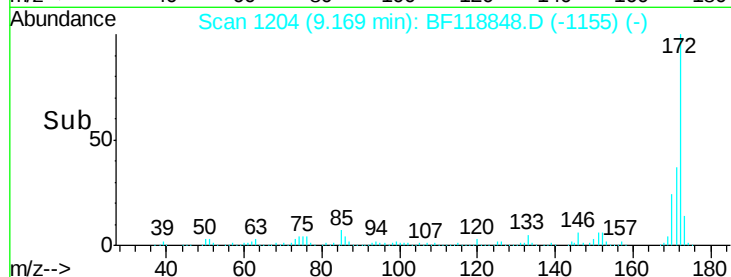
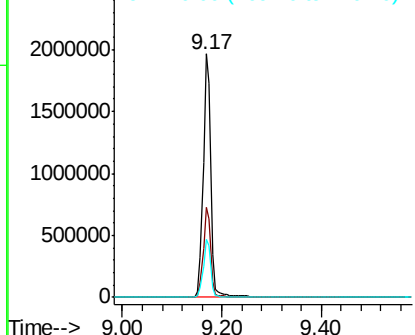
#45  
2-Fluorobiphenyl  
Concen: 68.148 ng  
RT: 9.17 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 2077956  
Ion Ratio Lower Upper  
172 100  
171 36.9 30.8 46.2  
170 23.9 20.5 30.7

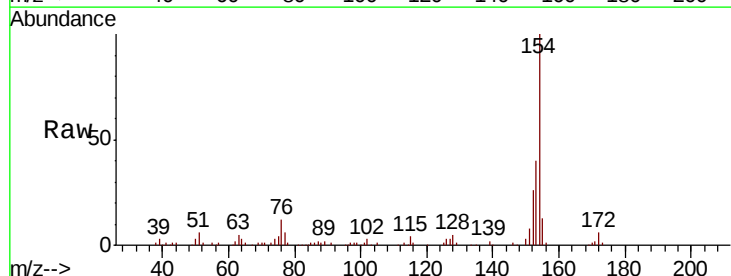


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

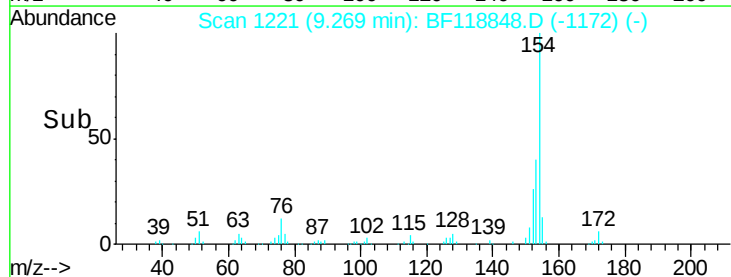
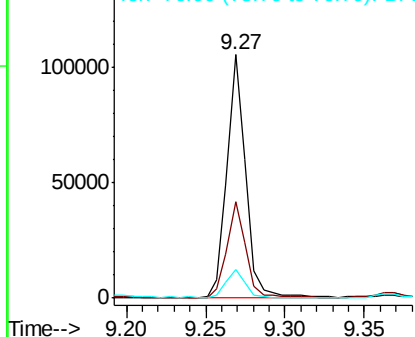


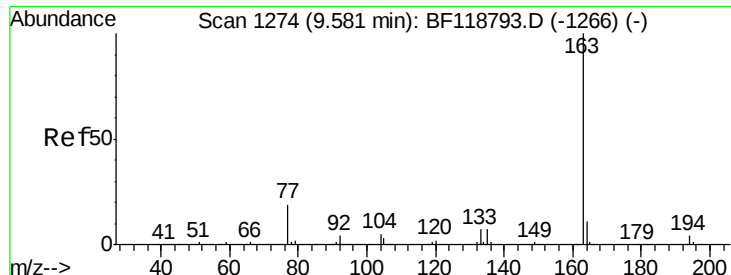
#46  
1,1'-Biphenyl  
Concen: 2.314 ng  
RT: 9.27 min Scan# 1221  
Delta R.T. -0.01 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

Tgt Ion:154 Resp: 87270  
Ion Ratio Lower Upper  
154 100  
153 39.7 22.4 62.4  
76 11.9 0.0 32.7



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF1

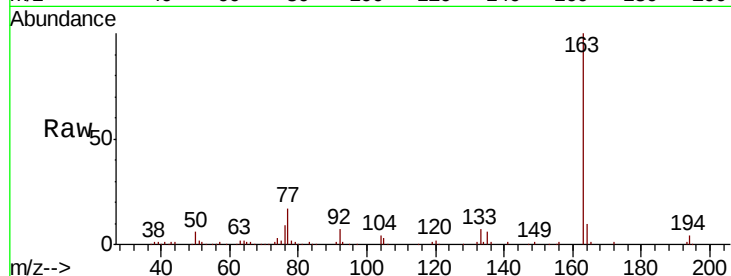




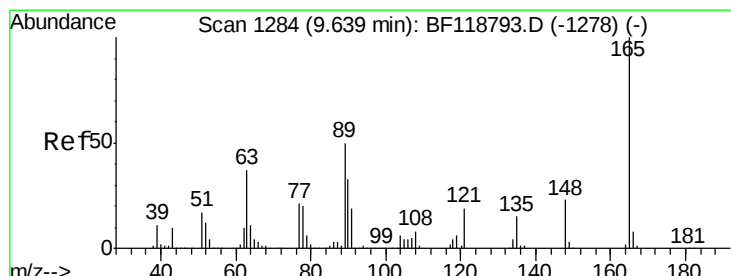
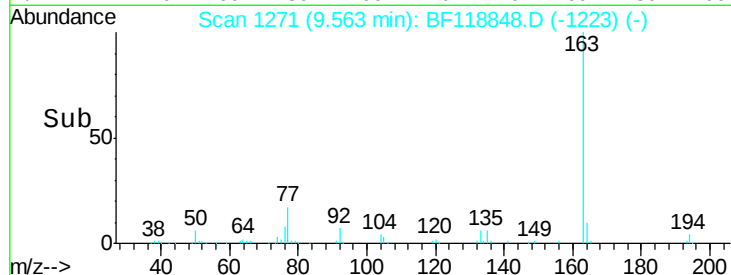
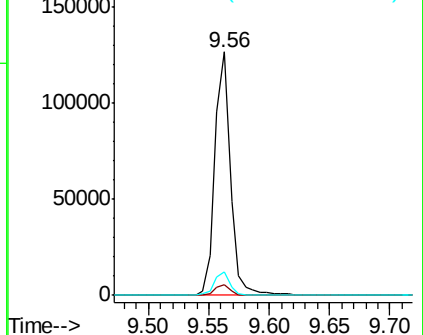
#50  
Dimethylphthalate  
Concen: 3.024 ng  
RT: 9.56 min Scan# 1271  
Delta R.T. -0.02 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 112255  
Ion Ratio Lower Upper  
163 100  
194 4.4 3.6 5.4  
164 9.5 8.7 13.1

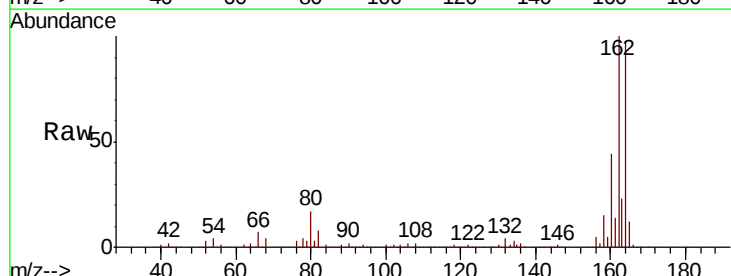


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

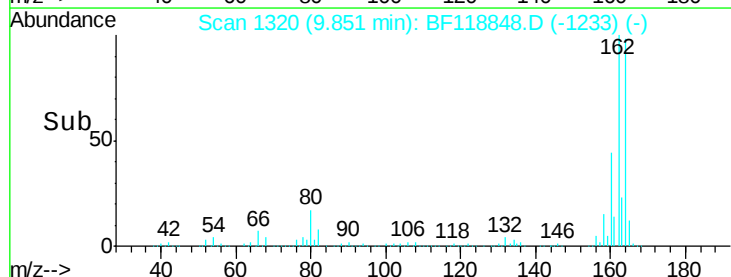
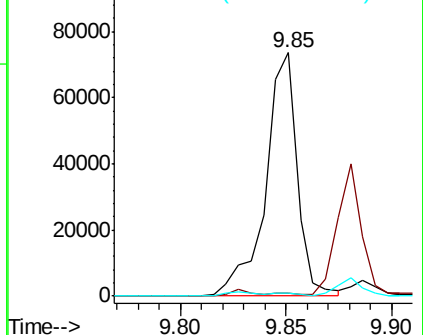


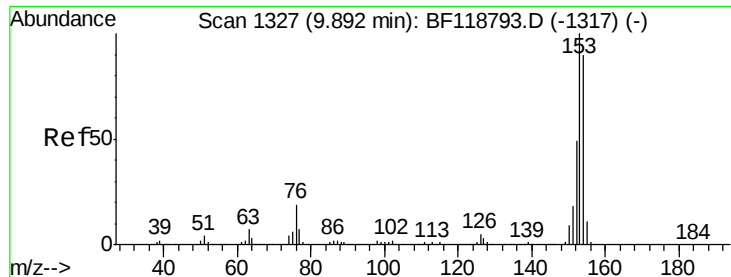
#51  
2,6-Dinitrotoluene  
Concen: 9.060 ng  
RT: 9.85 min Scan# 1320  
Delta R.T. 0.21 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

Tgt Ion:165 Resp: 76946  
Ion Ratio Lower Upper  
165 100  
63 1.3 37.4 56.0#  
89 1.2 39.7 59.5#



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





#52

Acenaphthene

Concen: 15.244 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

Instrument :

BNA\_F

ClientSampleId :

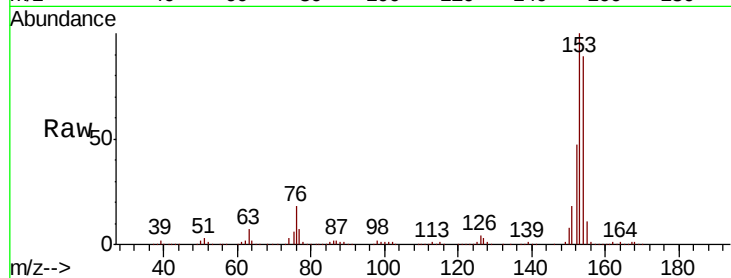
Tot Ion:154 Resp: 454667

Ion Ratio Lower Upper

154 100

153 112.3 89.4 134.0

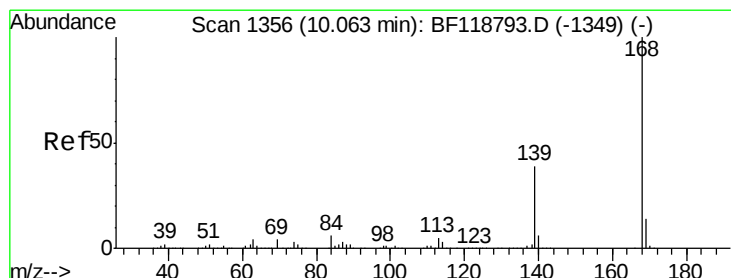
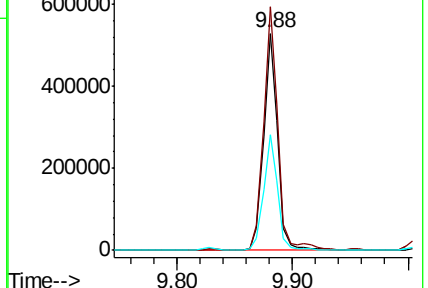
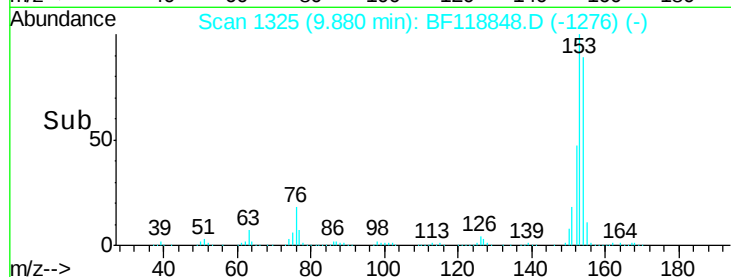
152 53.2 43.6 65.4



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



#55

Dibenzofuran

Concen: 11.286 ng

RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

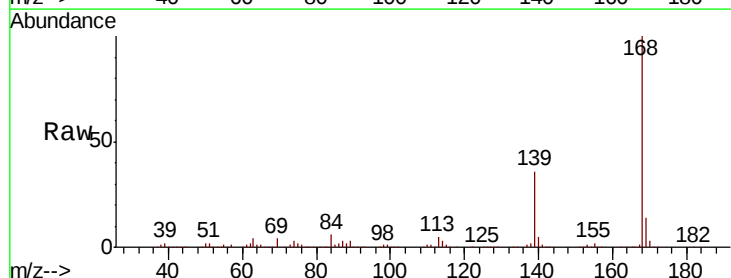
Tgt Ion:168 Resp: 486474

Ion Ratio Lower Upper

168 100

139 36.3 31.6 47.4

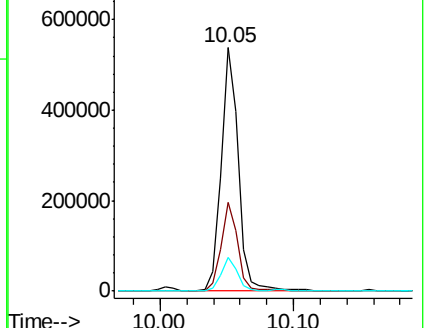
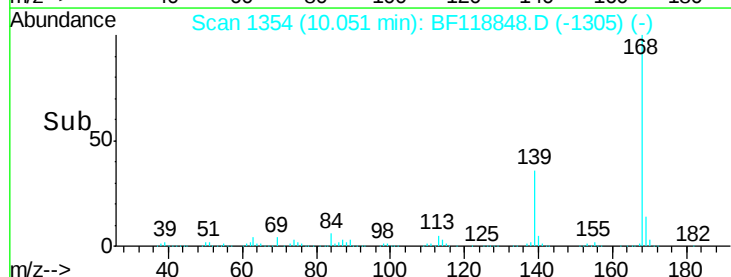
169 13.8 11.4 17.2

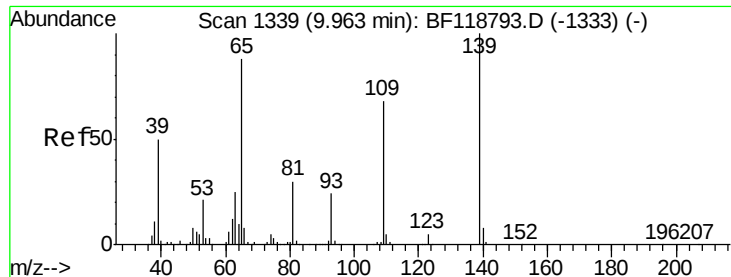


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

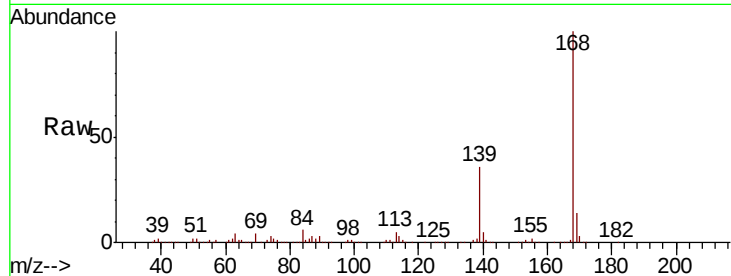




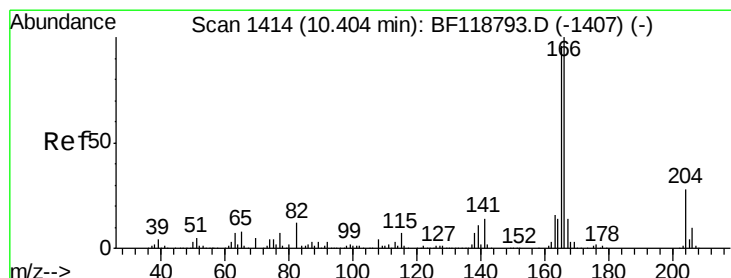
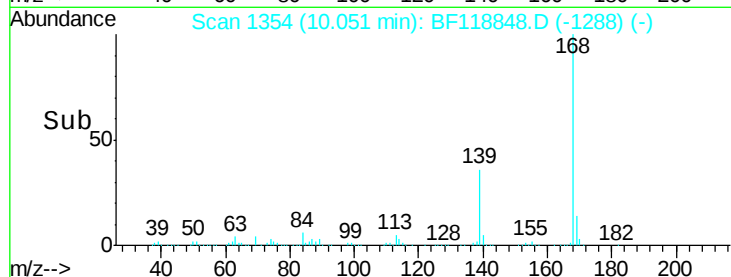
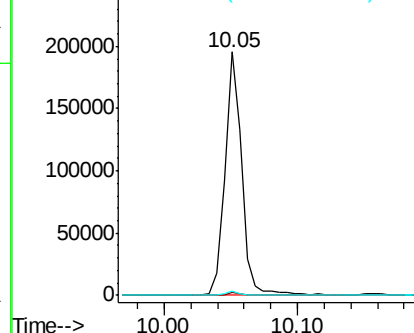
#56  
4-Nitrophenol  
Concen: 25.512 ng  
RT: 10.05 min Scan# 1354  
Delta R.T. 0.09 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:139 Resp: 173908  
Ion Ratio Lower Upper  
139 100  
109 1.0 48.0 88.0#  
65 1.5 68.3 108.3#

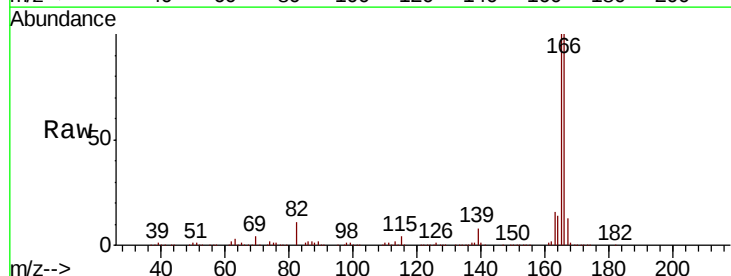


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF1

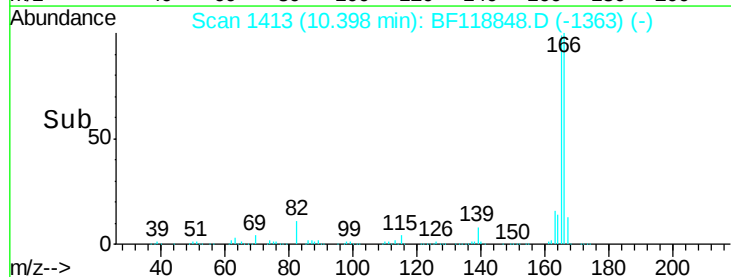
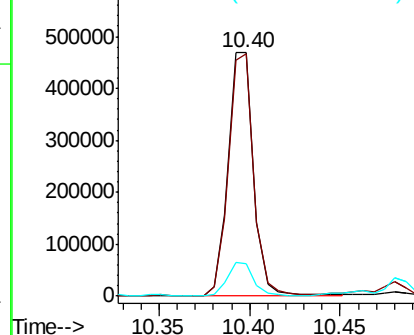


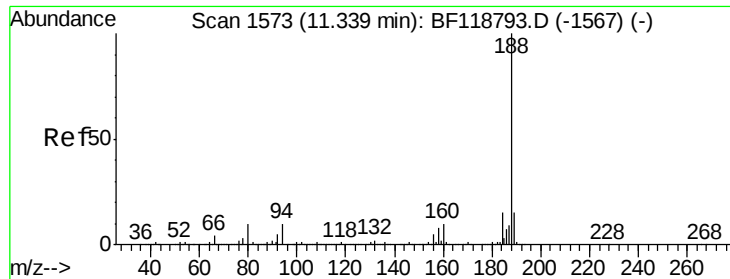
#58  
Fluorene  
Concen: 14.171 ng  
RT: 10.40 min Scan# 1413  
Delta R.T. -0.01 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

Tgt Ion:166 Resp: 459525  
Ion Ratio Lower Upper  
166 100  
165 99.5 77.0 115.6  
167 13.4 11.1 16.7



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

Instrument :

BNA\_F

ClientSampled :

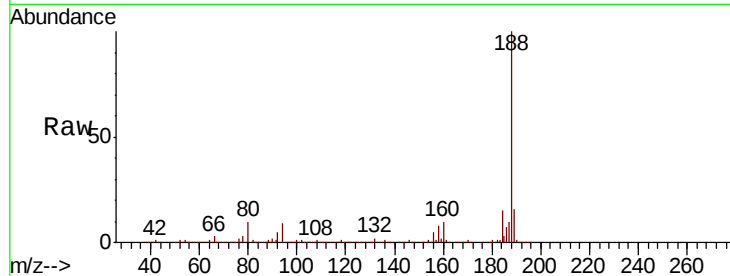
Tot Ion:188 Resp: 1087366

Ion Ratio Lower Upper

188 100

94 9.4 7.9 11.9

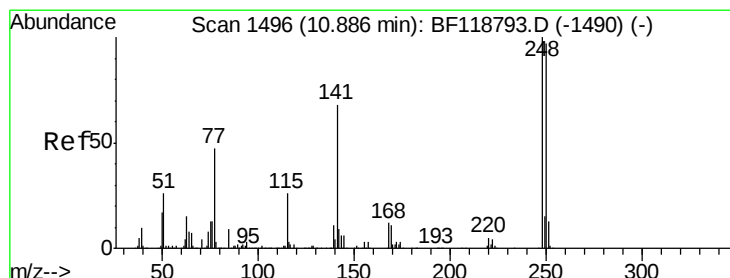
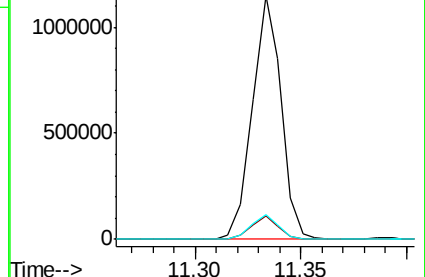
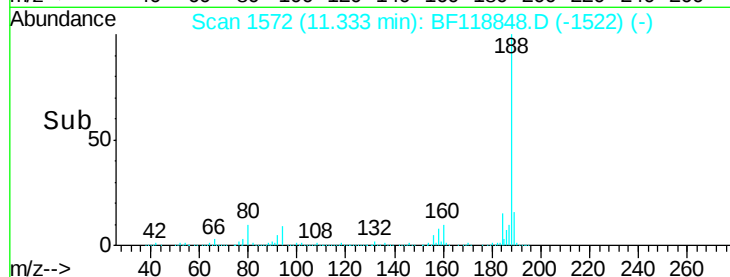
80 10.0 8.4 12.6



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



#67

4-Bromophenyl-phenylether

Concen: 3.201 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.25 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

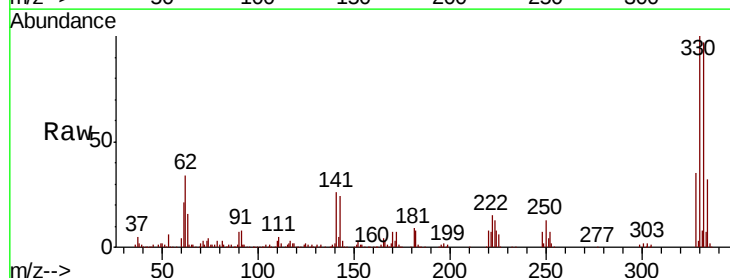
Tgt Ion:248 Resp: 41175

Ion Ratio Lower Upper

248 100

250 199.9 77.6 116.4#

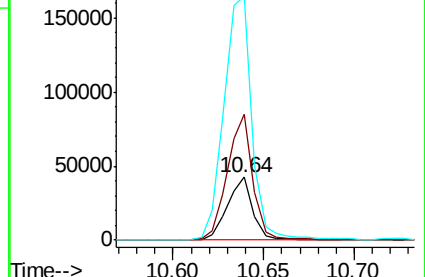
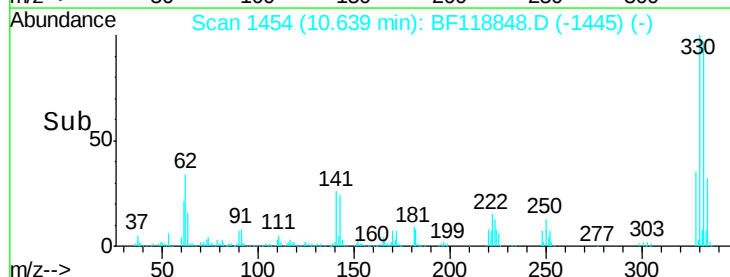
141 387.3 54.4 81.6#

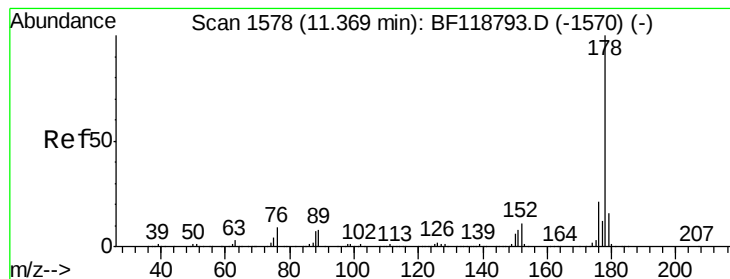


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 32.793 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

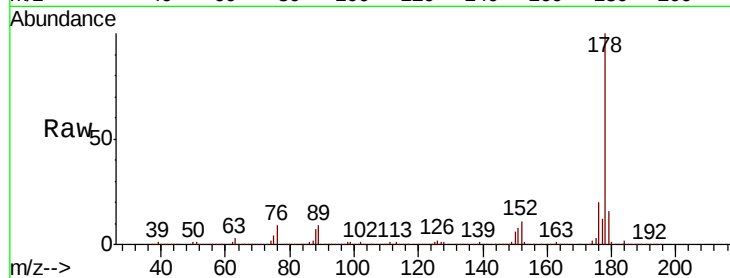
Instrument :

BNA\_F

ClientSampled :

Tot Ion:178 Resp: 1754452

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.7  | 16.6  | 24.8  |
| 179 | 16.5  | 13.2  | 19.8  |

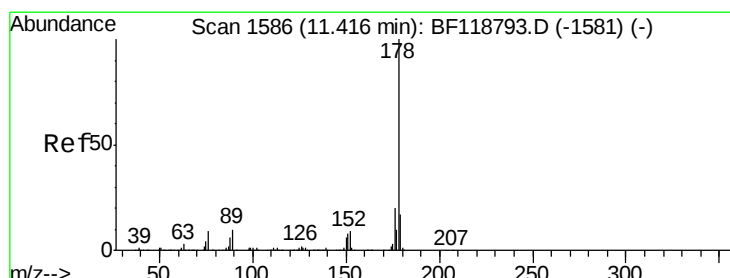
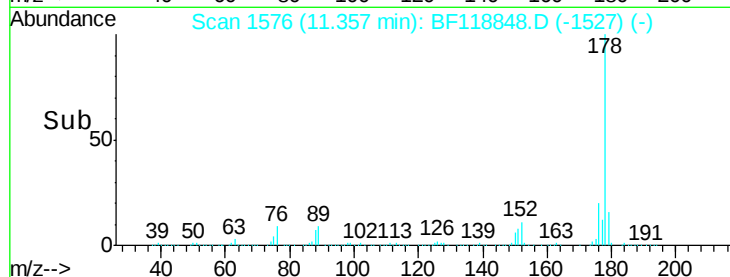
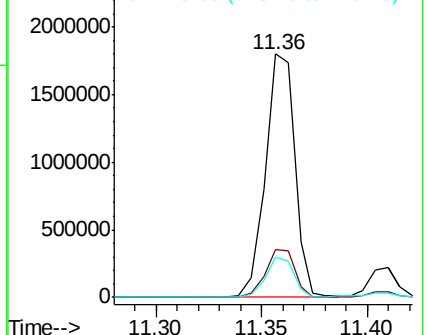


Abundance

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



#72

Anthracene

Concen: 3.674 ng

RT: 11.41 min Scan# 1585

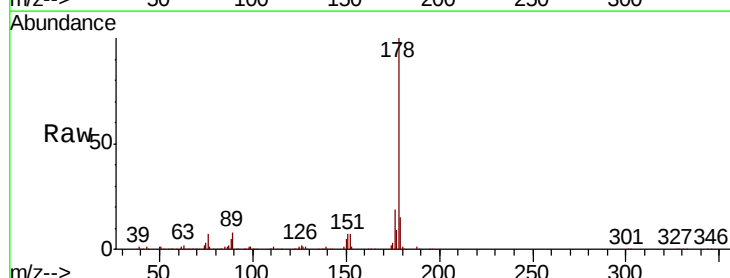
Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

Tgt Ion:178 Resp: 195537

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.6  | 16.2  | 24.2  |
| 179 | 15.4  | 13.4  | 20.2  |

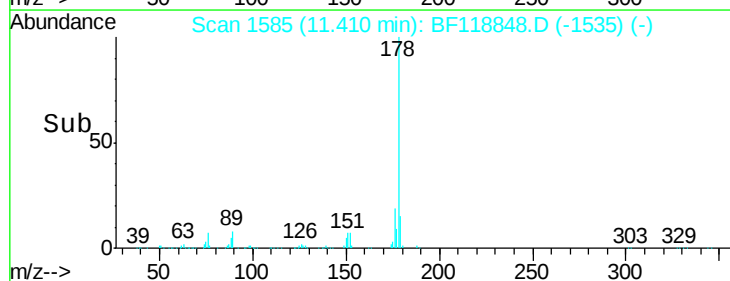
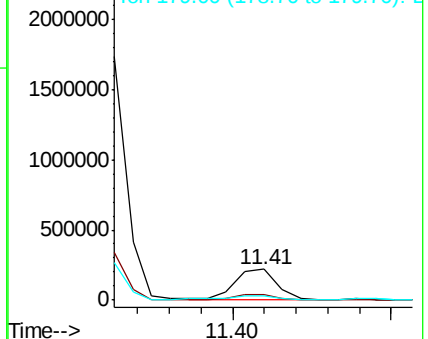


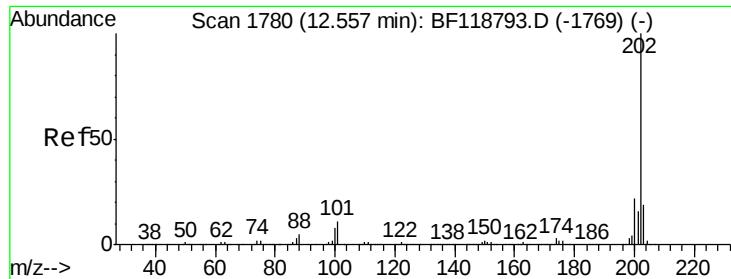
Abundance

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: 16.591 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

Instrument :

BNA\_F

ClientSampled :

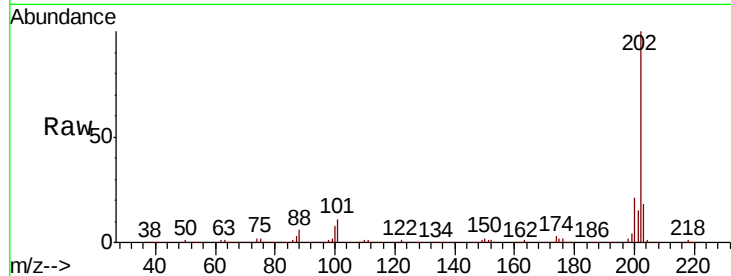
Tot Ion:202 Resp: 969134

Ion Ratio Lower Upper

202 100

101 11.0 0.0 31.0

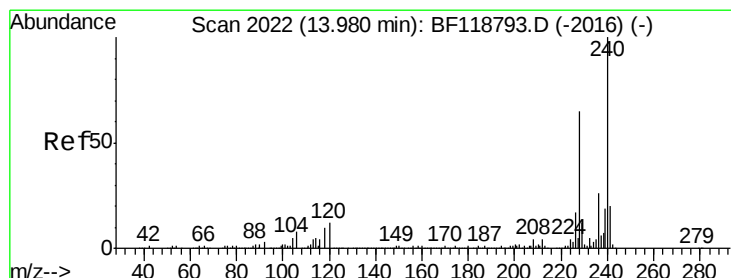
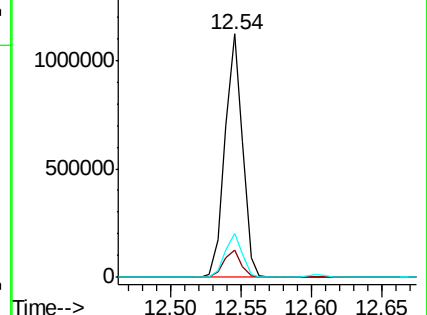
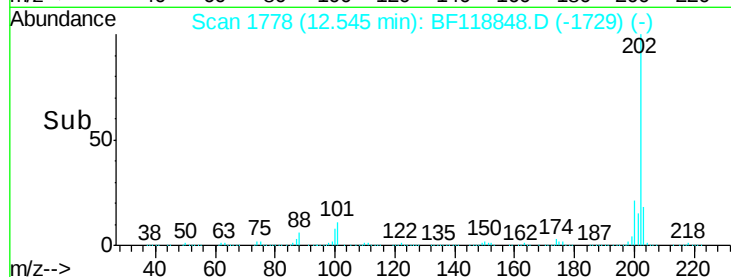
203 18.0 0.0 38.7



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: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

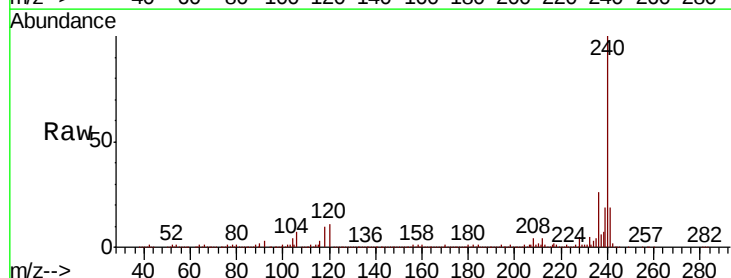
Tgt Ion:240 Resp: 1022906

Ion Ratio Lower Upper

240 100

120 11.2 9.4 14.0

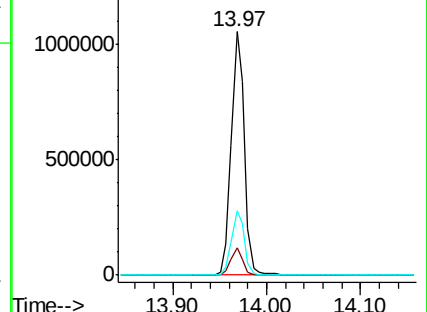
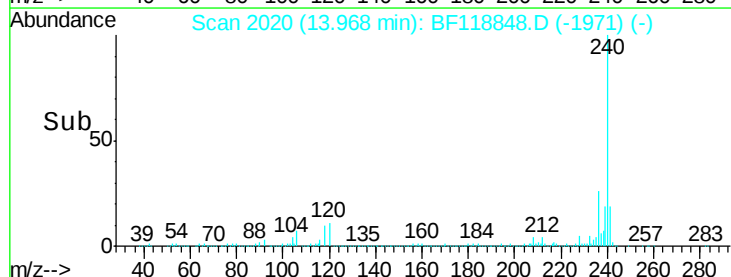
236 26.3 21.0 31.6

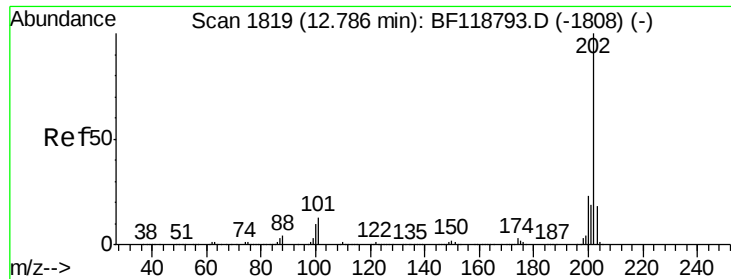


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

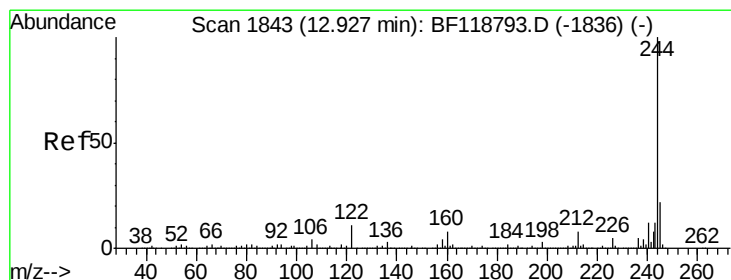
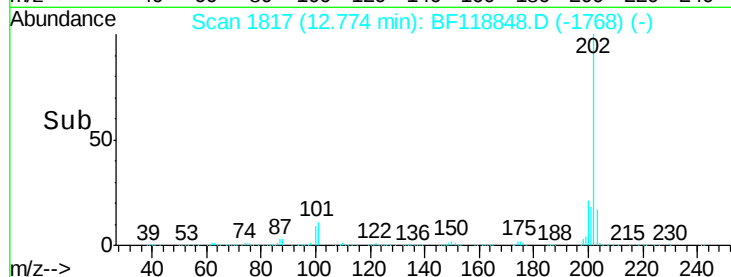
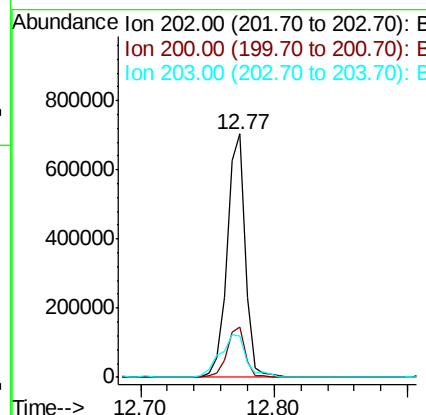
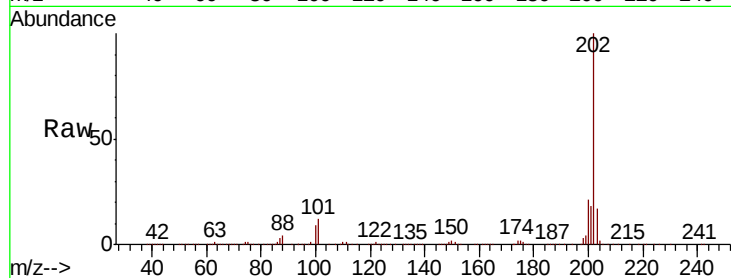




#78  
Pvrene  
Concen: 9.672 ng  
RT: 12.77 min Scan# 1817  
Delta R.T. -0.01 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

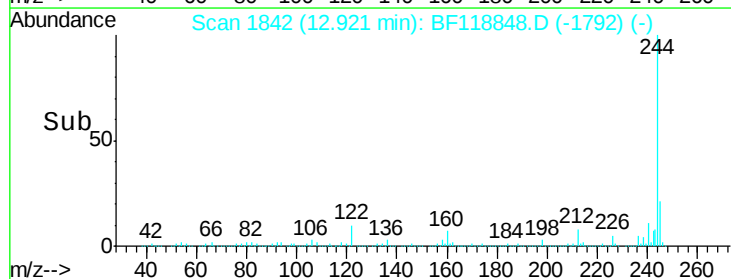
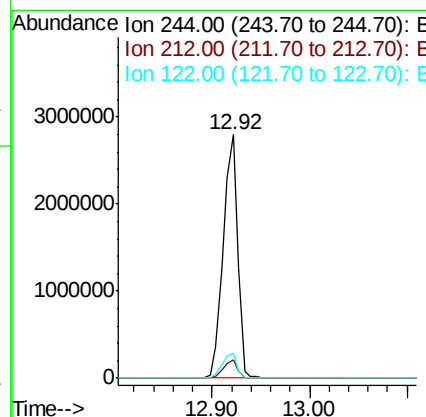
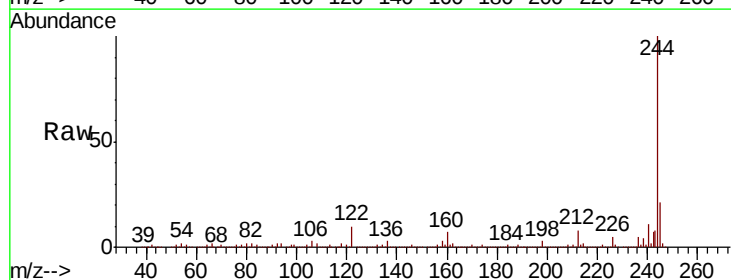
Instrument :  
BNA\_F  
ClientSampleId :

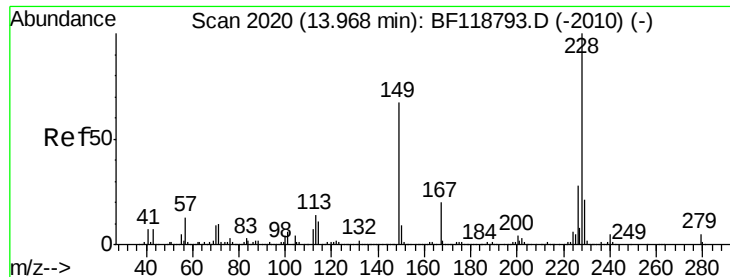
Tot Ion:202 Resp: 678749  
Ion Ratio Lower Upper  
202 100  
200 20.7 18.2 27.2  
203 17.2 14.8 22.2



#79  
Terphenyl-d14  
Concen: 57.901 ng  
RT: 12.92 min Scan# 1842  
Delta R.T. -0.01 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

Tgt Ion:244 Resp: 2883465  
Ion Ratio Lower Upper  
244 100  
212 7.6 6.5 9.7  
122 10.4 8.9 13.3

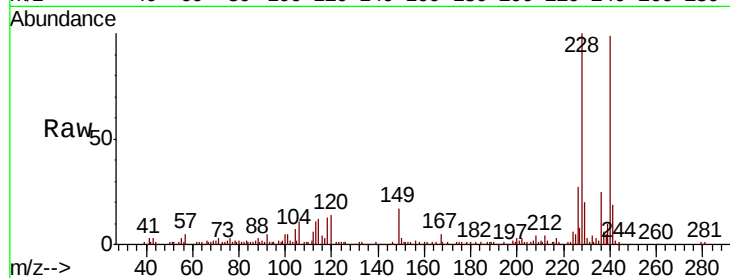




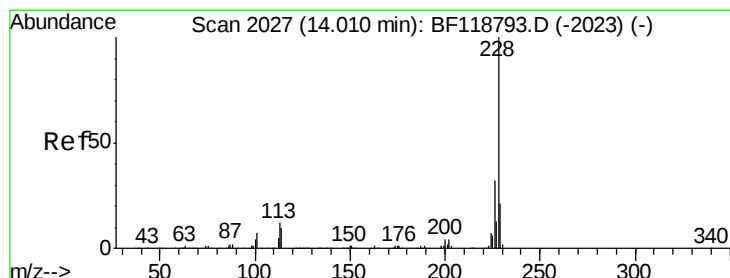
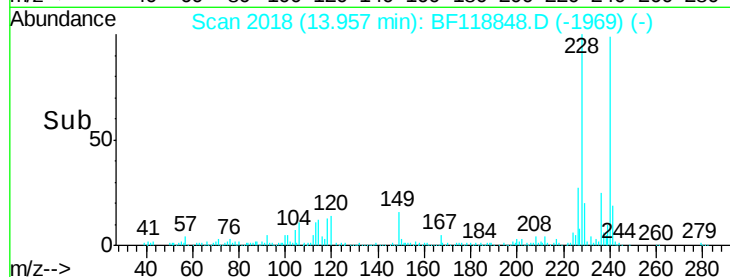
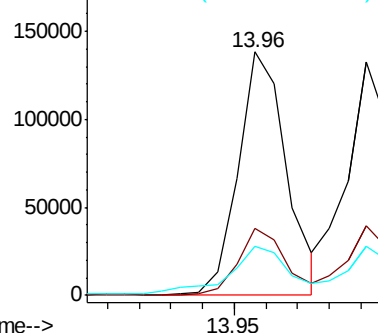
#81  
Benzo(a)anthracene  
Concen: 2.394 ng  
RT: 13.96 min Scan# 2018  
Delta R.T. -0.01 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:228 Resp: 145729  
Ion Ratio Lower Upper  
228 100  
226 27.3 22.7 34.1  
229 20.2 16.6 25.0

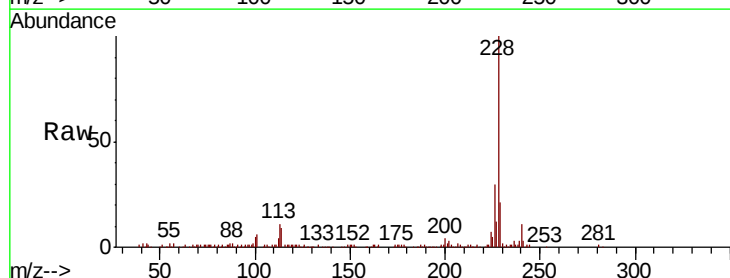


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

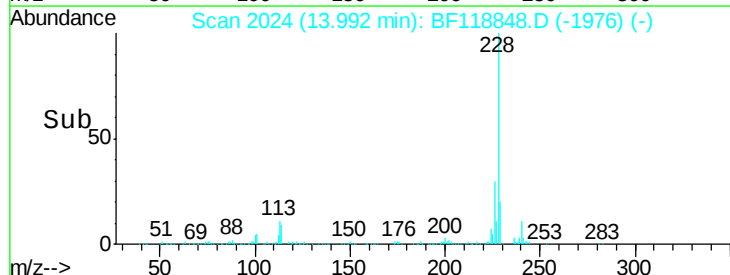
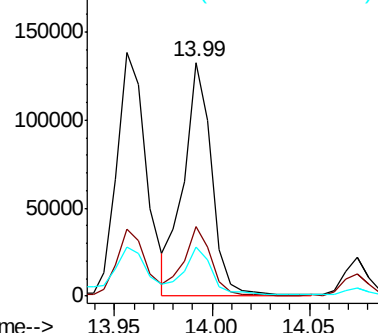


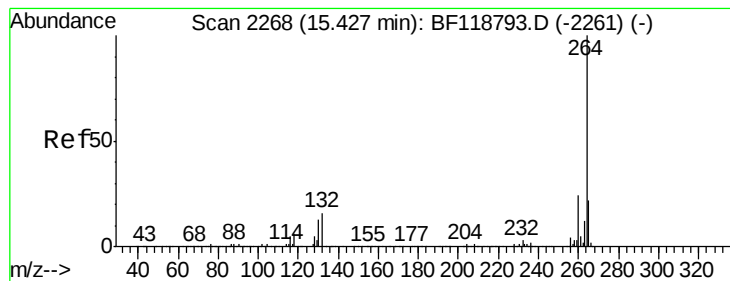
#83  
Chrysene  
Concen: 2.171 ng  
RT: 13.99 min Scan# 2024  
Delta R.T. -0.02 min  
Lab File: BF118848.D  
Acq: 7 Feb 2020 14:08

Tgt Ion:228 Resp: 132607  
Ion Ratio Lower Upper  
228 100  
226 29.7 25.4 38.0  
229 20.7 16.9 25.3



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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.42 min Scan# 2266

Delta R.T. -0.01 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

Instrument :

BNA\_F

ClientSampleId :

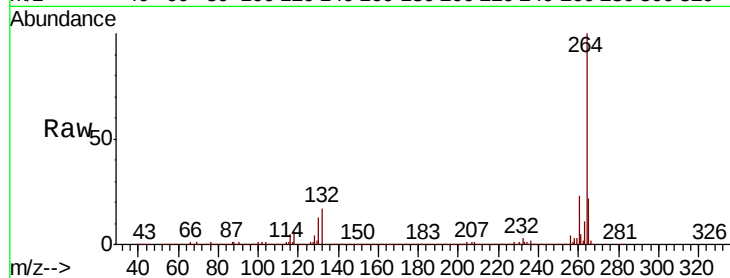
Tot Ion:264 Resp: 1016079

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.1  | 19.1  | 28.7  |
| 265 | 22.1  | 17.2  | 25.8  |

264 100

260 23.1 19.1 28.7

265 22.1 17.2 25.8

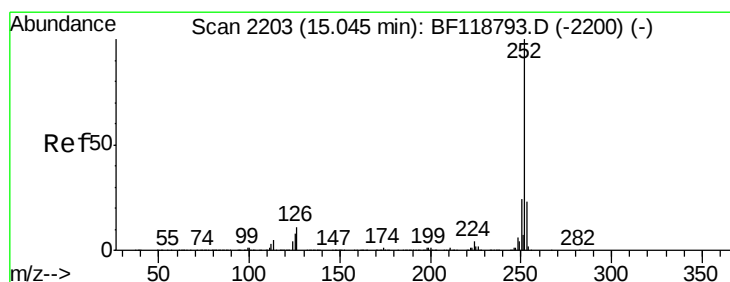
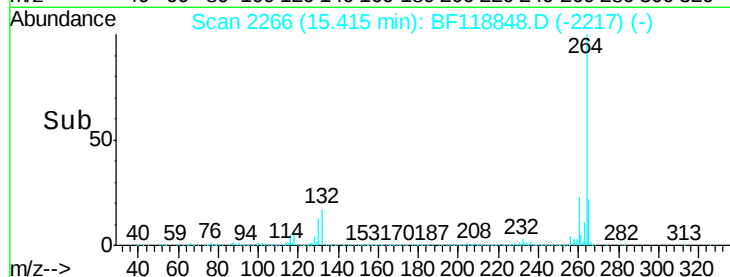
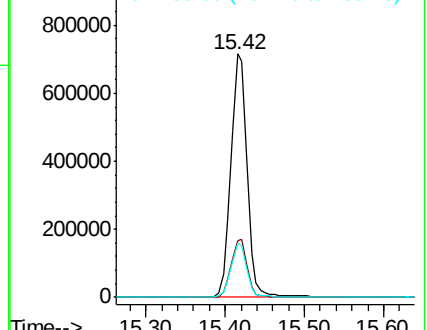


Abundance

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



#89

Benzo(k)fluoranthene

Concen: 2.279 ng

RT: 15.00 min Scan# 2195

Delta R.T. -0.05 min

Lab File: BF118848.D

Acq: 7 Feb 2020 14:08

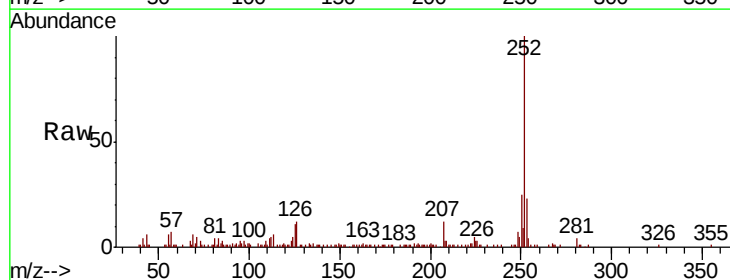
Tgt Ion:252 Resp: 125124

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.4  | 18.2  | 27.4  |
| 125 | 10.6  | 7.0   | 10.6# |

252 100

253 23.4 18.2 27.4

125 10.6 7.0 10.6#



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

