

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031819\  
 Data File : BF113099.D  
 Acq On : 18 Mar 2019 19:16  
 Operator : JU/SJ  
 Sample : K1687-09 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-031519-B

Quant Time: Mar 19 04:51:17 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 13 03:42:55 2019  
 Response via : Initial Calibration

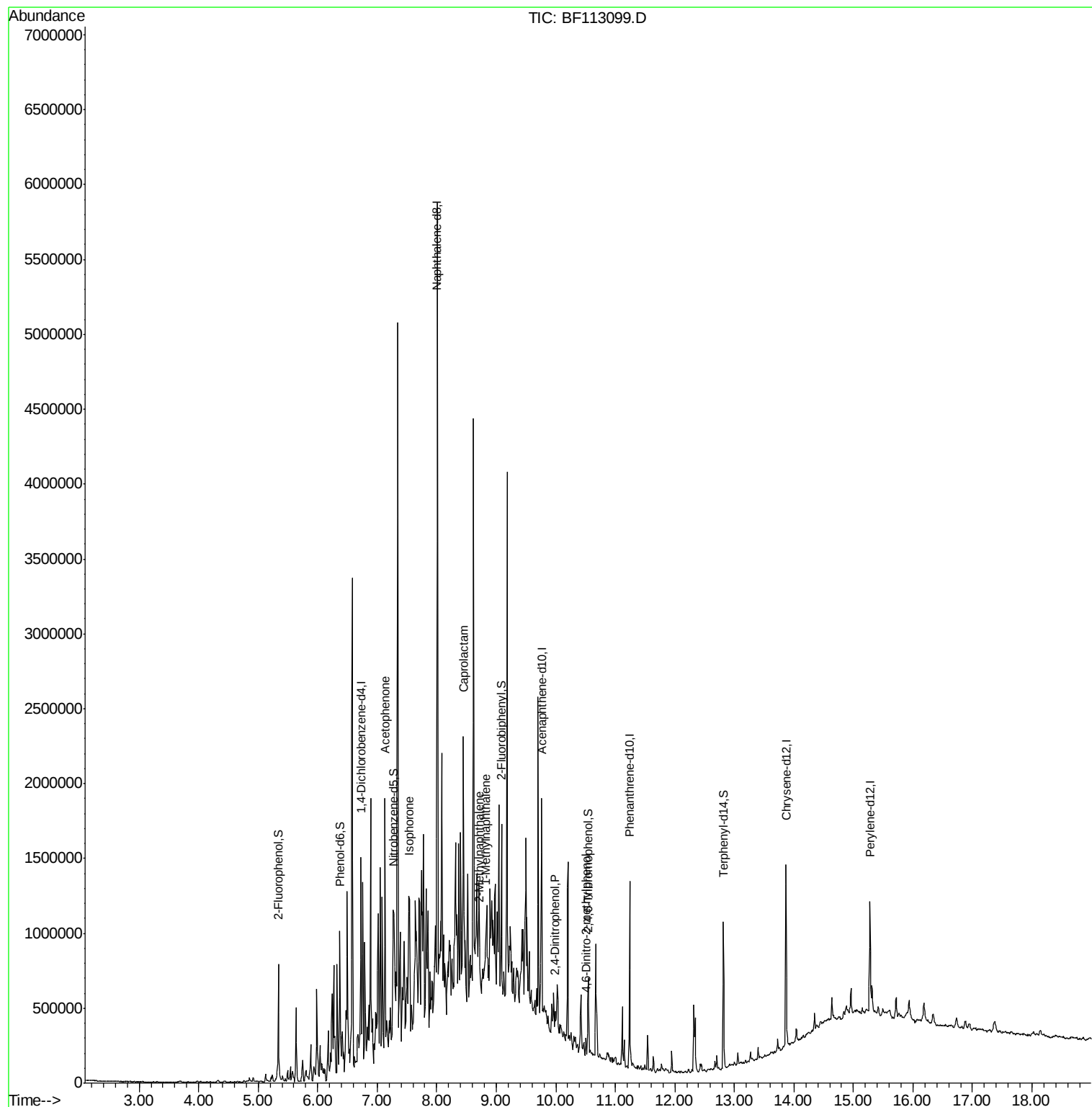
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.73  | 152  | 153026   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.01  | 136  | 458682   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.76  | 164  | 270060   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.24 | 188  | 489665   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 13.87 | 240  | 461471   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.28 | 264  | 388649   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 235053   | 23.89  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.37  | 99   | 315361   | 25.52  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 205346   | 26.79  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.55 | 330  | 72353    | 25.24  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.09  | 172  | 361208   | 17.32  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.82 | 244  | 338007   | 14.20  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 22) Acetophenone               | 7.13  | 105  | 103274   | 9.629  | ng    | # 37     |
| 25) Isophorone                 | 7.55  | 82   | 36411    | 2.205  | ng    | # 1      |
| 35) Caprolactam                | 8.45  | 113  | 35090    | 15.549 | ng    | # 30     |
| 37) 2-Methylnaphthalene        | 8.73  | 142  | 72085    | 4.902  | ng    | # 97     |
| 38) 1-Methylnaphthalene        | 8.82  | 142  | 63552    | 4.461  | ng    | # 99     |
| 54) 2,4-Dinitrophenol          | 9.98  | 184  | 115      | 6.516  | ng    | # 1      |
| 65) 4,6-Dinitro-2-methylphenol | 10.50 | 198  | 237      | 4.719  | ng    | # 1      |

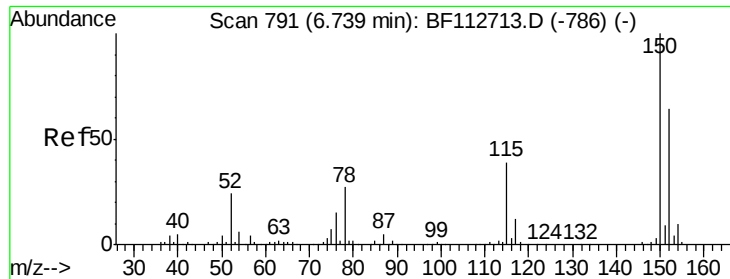
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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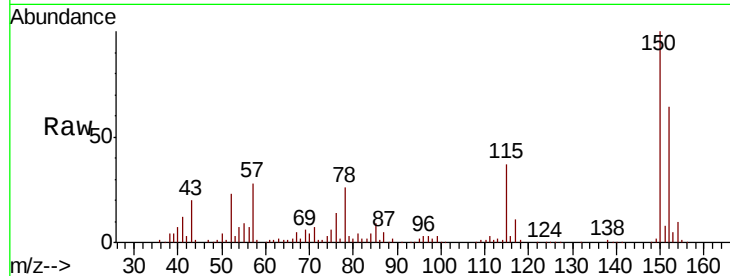




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.73 min Scan# 789  
 Delta R.T. -0.01 min  
 Lab File: BF113099.D  
 Acq: 18 Mar 2019 19:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-031519-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.6 | 124.2 | 186.2 |
| 115     | 58.6  | 48.2  | 72.4  |

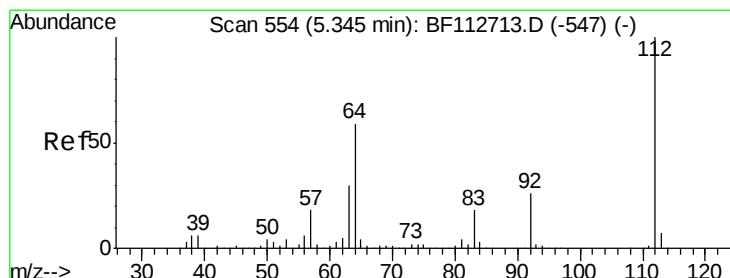
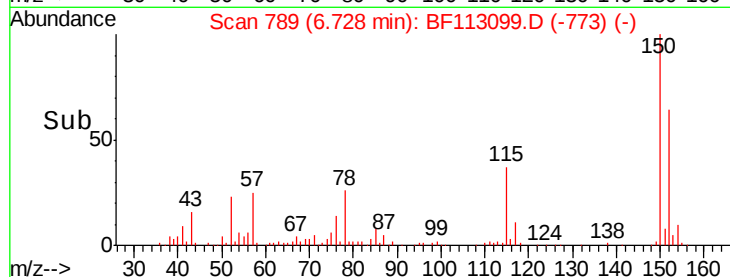
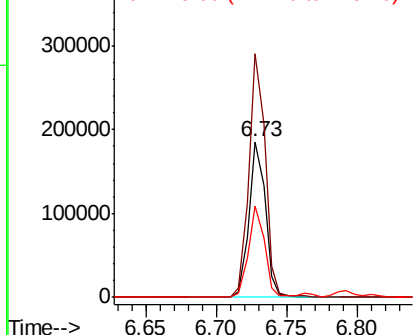


Abundance

Ion 152.00 (151.70 to 152.70): E

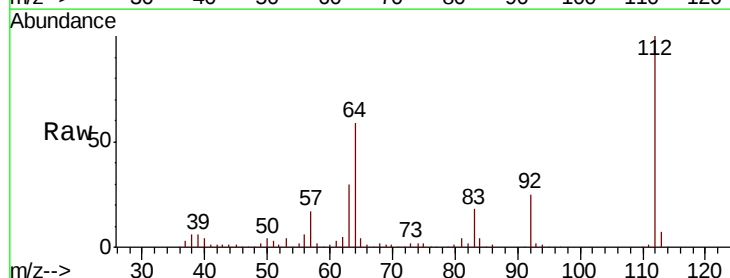
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5  
 2-Fluorophenol  
 Concen: 23.894 ng  
 RT: 5.34 min Scan# 553  
 Delta R.T. -0.01 min  
 Lab File: BF113099.D  
 Acq: 18 Mar 2019 19:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.3  | 47.6  | 71.4  |
| 63      | 29.6  | 24.4  | 36.6  |

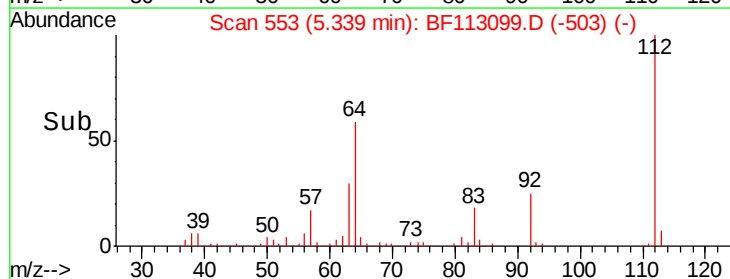
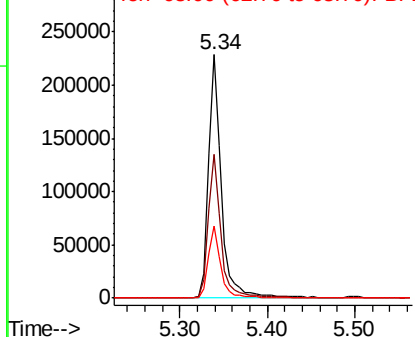


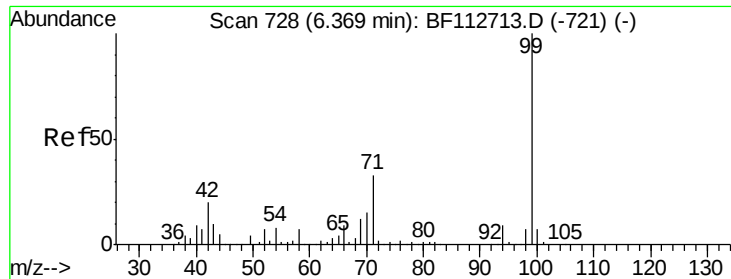
Abundance

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: 25.520 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113099.D

Acq: 18 Mar 2019 19:16

Instrument :

BNA\_F

ClientSampleId :

HR-05-031519-B

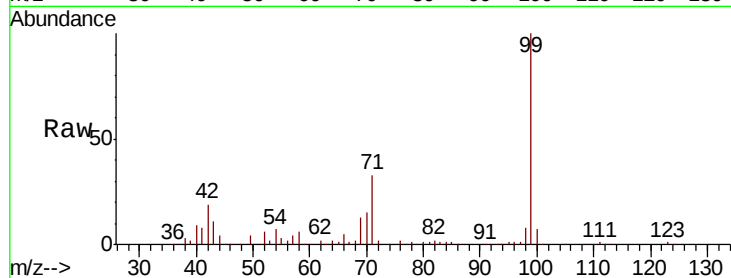
Tgt Ion: 99 Resp: 315361

Ion Ratio Lower Upper

99 100

42 18.6 16.3 24.5

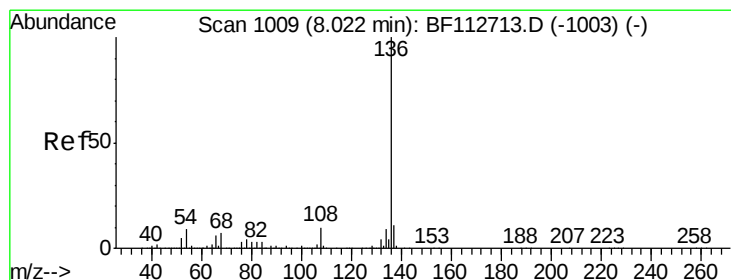
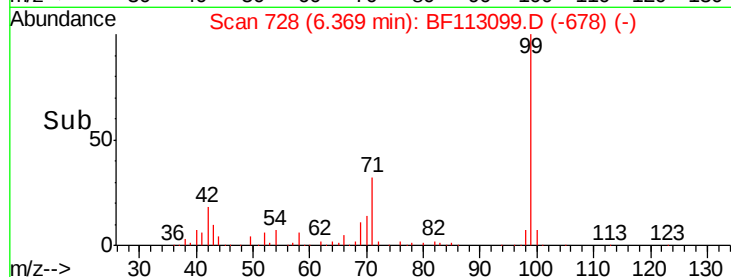
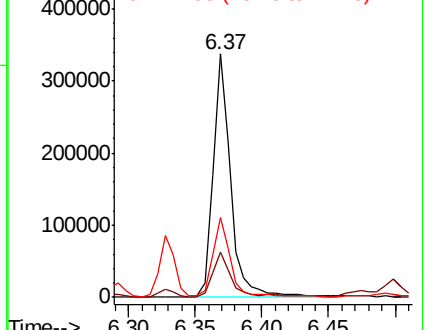
71 32.6 26.2 39.4



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF113099.D

Acq: 18 Mar 2019 19:16

Tgt Ion: 136 Resp: 458682

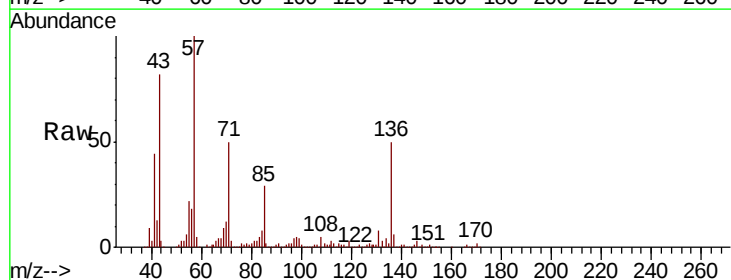
Ion Ratio Lower Upper

136 100

137 11.6 8.9 13.3

54 12.4 7.3 10.9#

68 9.0 5.4 8.2#

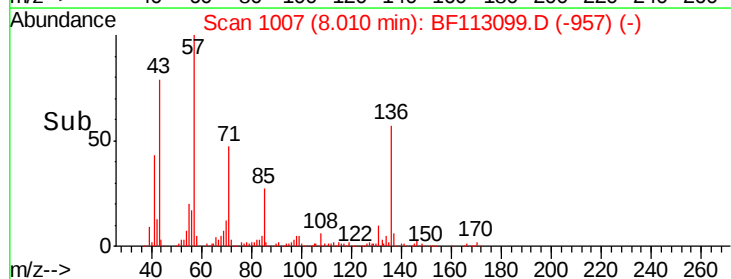
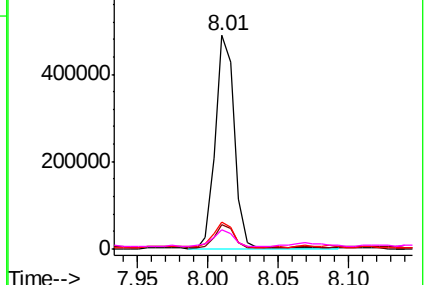


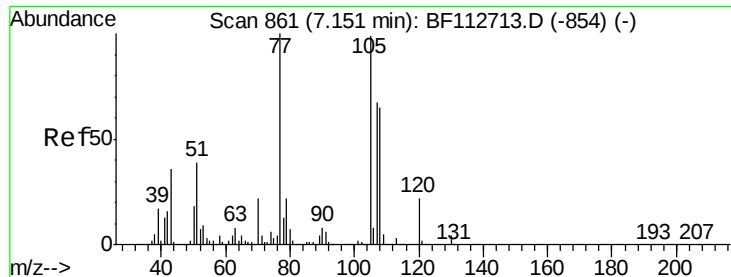
Abundance Ion 136.00 (135.70 to 136.70): E

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





#22

Acetophenone

Concen: 9.629 ng

RT: 7.13 min Scan# 857

Delta R.T. -0.02 min

Lab File: BF113099.D

Acq: 18 Mar 2019 19:16

Instrument :

BNA\_F

ClientSampleId :

HR-05-031519-B

Tgt Ion:105 Resp: 103274

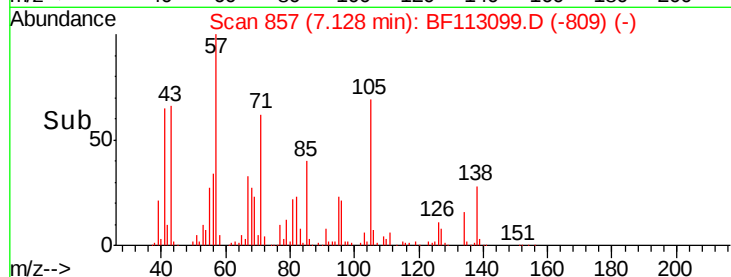
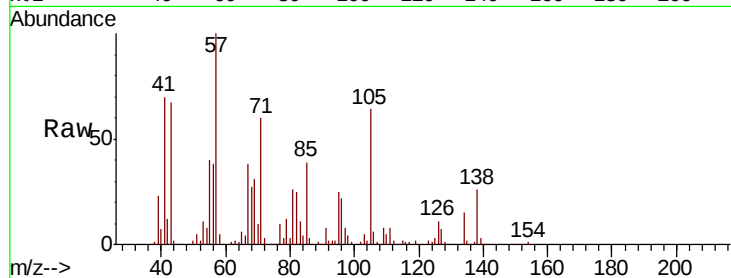
Ion Ratio Lower Upper

105 100

71 93.6 3.0 4.4#

51 7.3 31.5 47.3#

120 0.2 18.1 27.1#

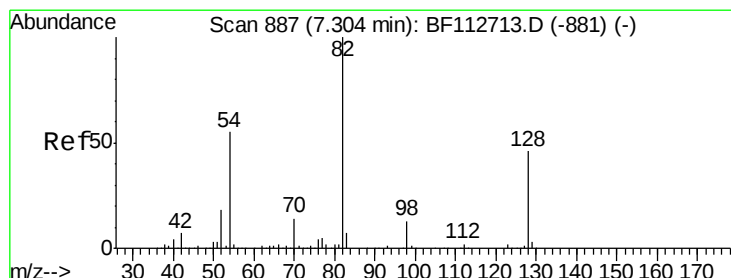
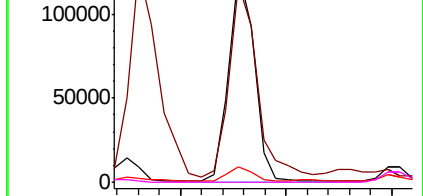


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 26.789 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.01 min

Lab File: BF113099.D

Acq: 18 Mar 2019 19:16

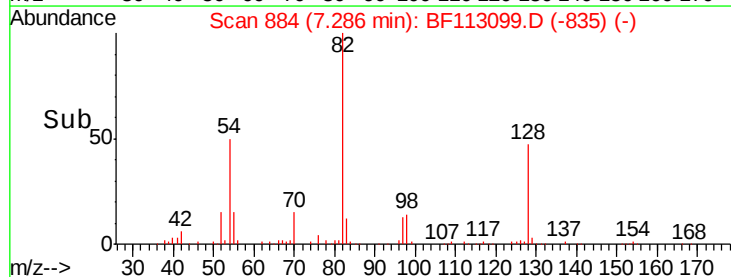
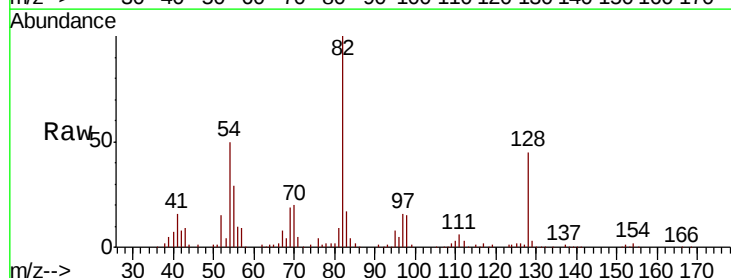
Tgt Ion: 82 Resp: 205346

Ion Ratio Lower Upper

82 100

128 45.0 36.3 54.5

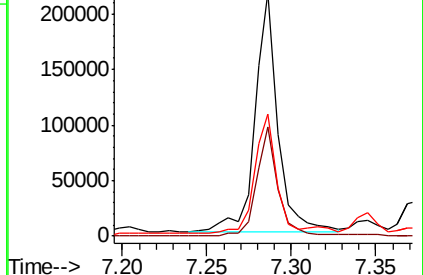
54 50.0 43.7 65.5

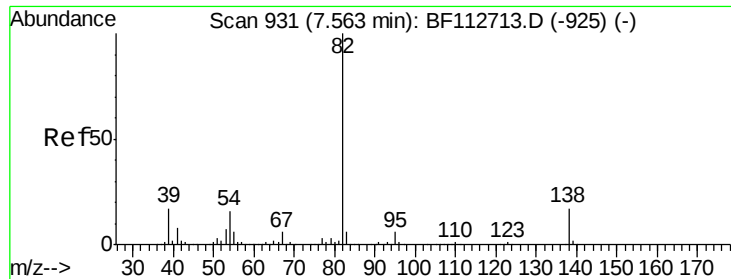


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 2.205 ng

RT: 7.55 min Scan# 928

Delta R.T. -0.01 min

Lab File: BF113099.D

Acq: 18 Mar 2019 19:16

Instrument :

BNA\_F

ClientSampleId :

HR-05-031519-B

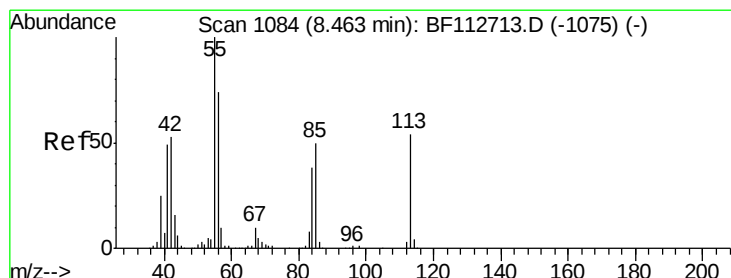
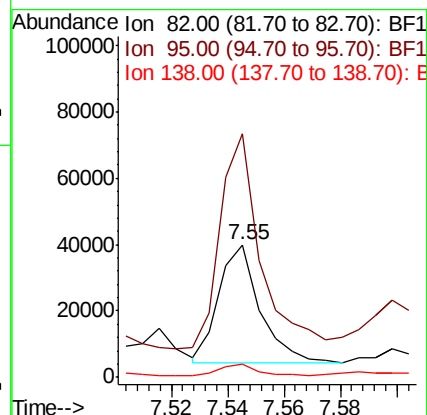
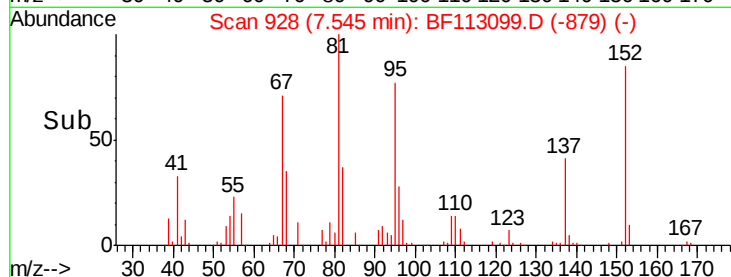
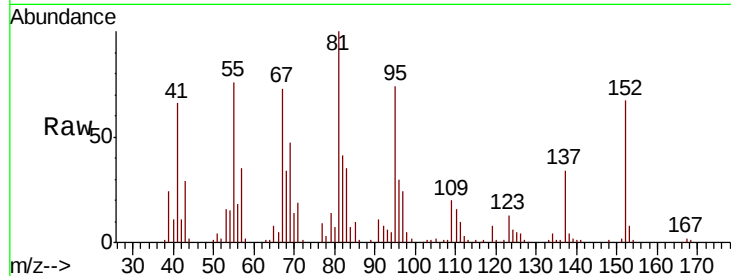
Tgt Ion: 82 Resp: 36411

Ion Ratio Lower Upper

82 100

95 183.7 5.2 7.8#

138 9.6 13.8 20.8#



#35

Caprolactam

Concen: 15.549 ng

RT: 8.45 min Scan# 1082

Delta R.T. -0.02 min

Lab File: BF113099.D

Acq: 18 Mar 2019 19:16

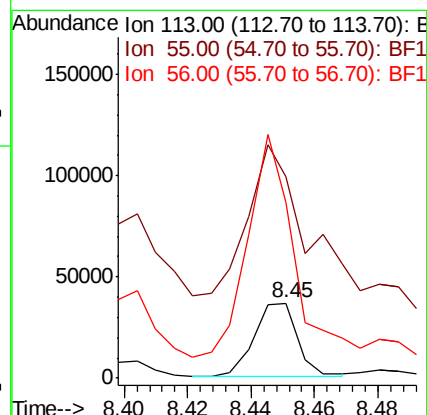
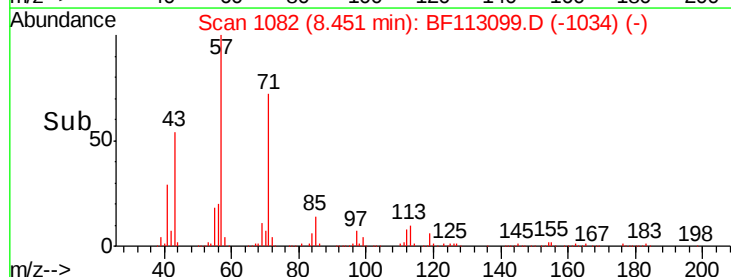
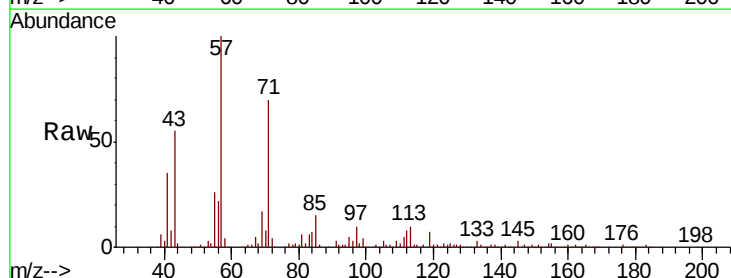
Tgt Ion: 113 Resp: 35090

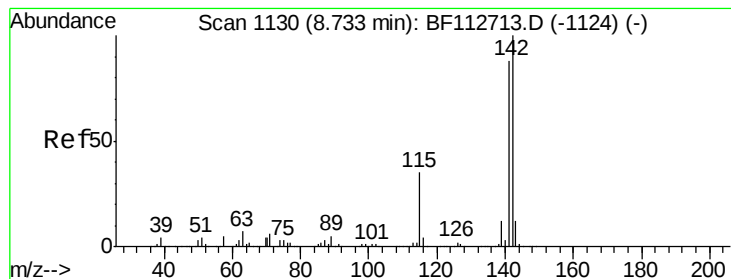
Ion Ratio Lower Upper

113 100

55 268.7 163.5 203.5#

56 235.6 115.3 155.3#





#37

2-Methylnaphthalene

Concen: 4.902 ng

RT: 8.73 min Scan# 1129

Delta R.T. -0.00 min

Lab File: BF113099.D

Acq: 18 Mar 2019 19:16

Instrument :

BNA\_F

ClientSampleId :

HR-05-031519-B

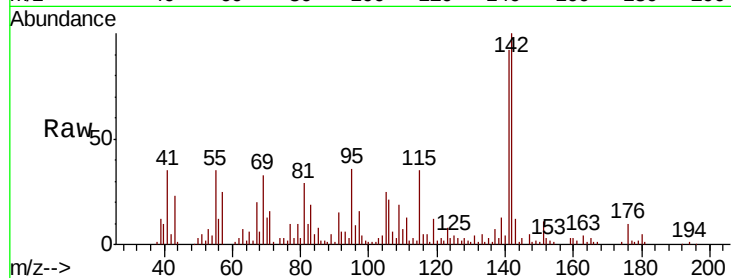
Tgt Ion:142 Resp: 72085

Ion Ratio Lower Upper

142 100

141 91.9 70.3 105.5

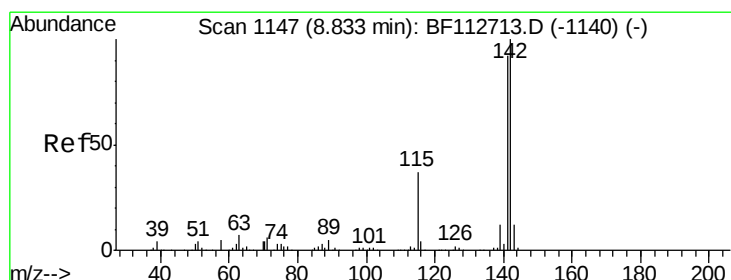
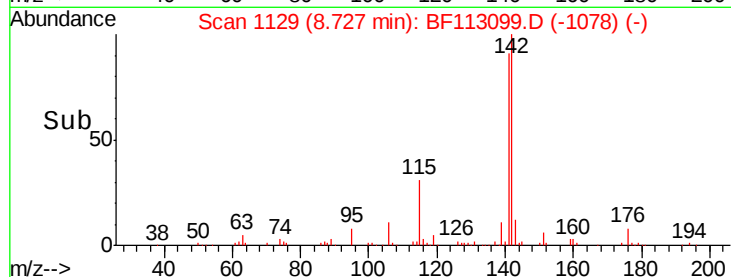
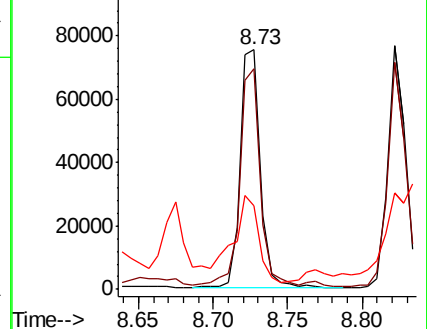
115 35.1 27.8 41.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 4.461 ng

RT: 8.82 min Scan# 1145

Delta R.T. -0.01 min

Lab File: BF113099.D

Acq: 18 Mar 2019 19:16

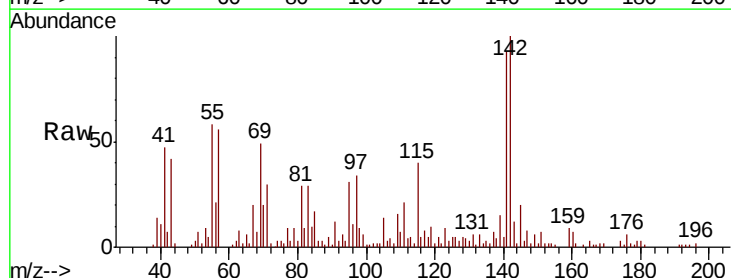
Tgt Ion:142 Resp: 63552

Ion Ratio Lower Upper

142 100

141 93.4 73.7 110.5

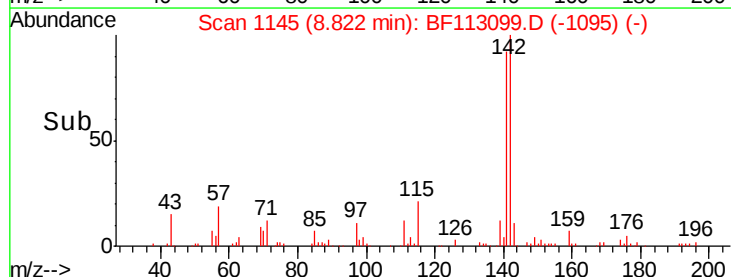
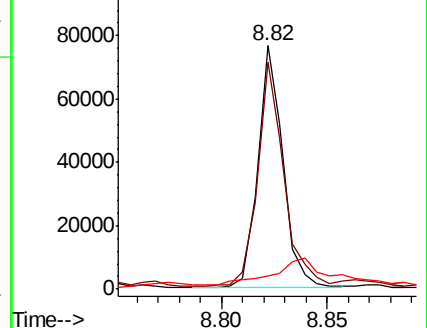
116 5.2 3.1 4.7#

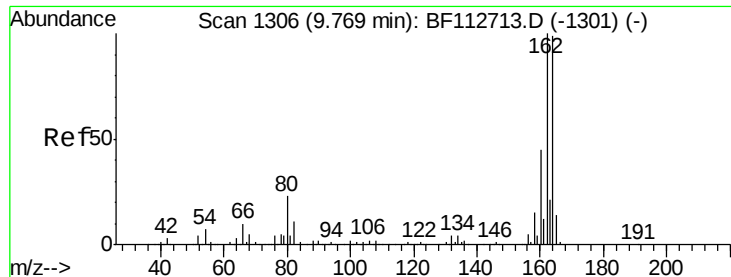


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

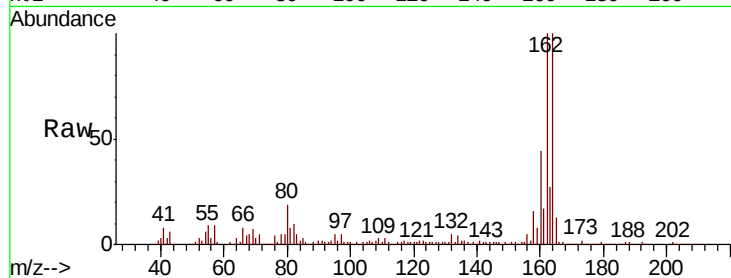




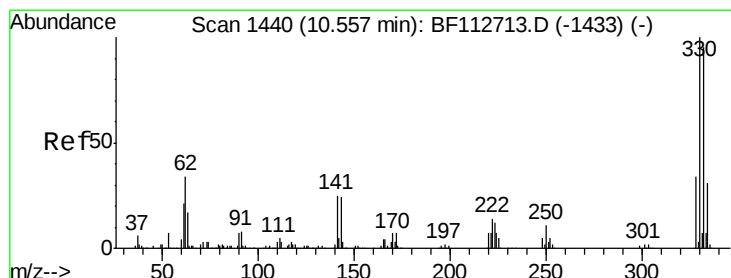
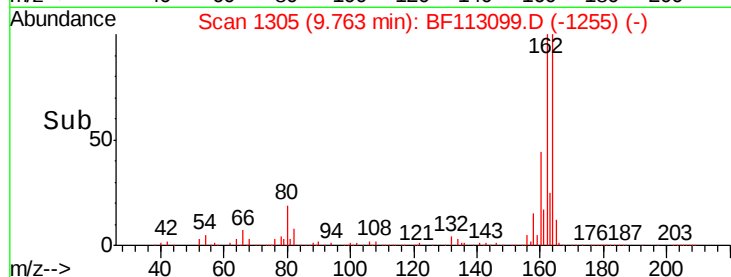
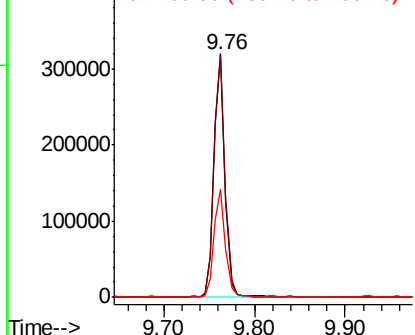
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BF113099.D  
Acq: 18 Mar 2019 19:16

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-031519-B

Tgt Ion:164 Resp: 270060  
Ion Ratio Lower Upper  
164 100  
162 99.5 80.6 120.8  
160 44.4 36.0 54.0

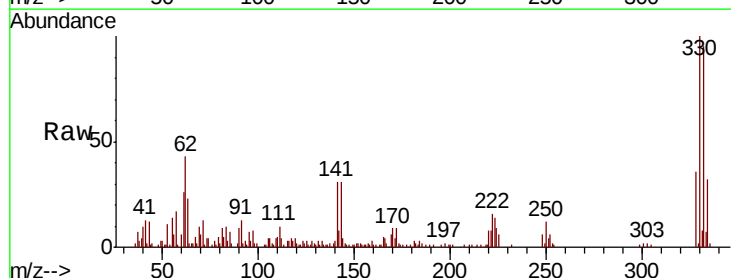


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

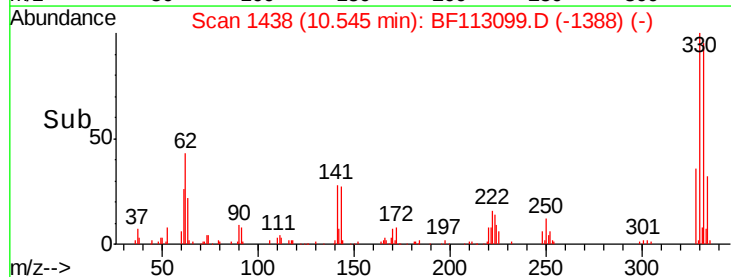
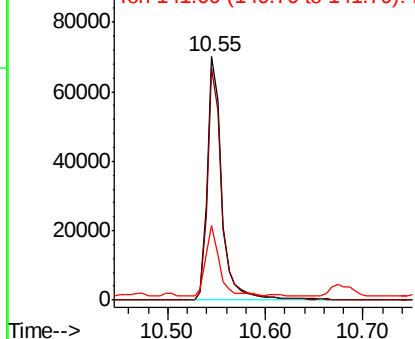


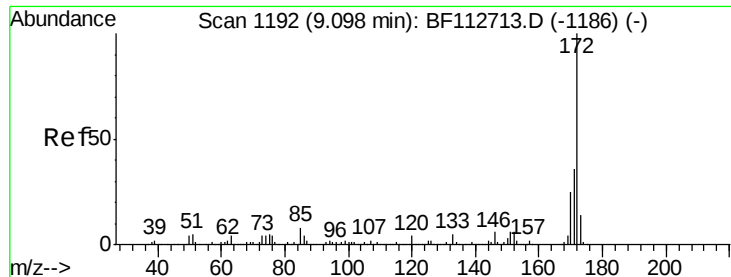
#42  
2,4,6-Tribromophenol  
Concen: 25.236 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. -0.01 min  
Lab File: BF113099.D  
Acq: 18 Mar 2019 19:16

Tgt Ion:330 Resp: 72353  
Ion Ratio Lower Upper  
330 100  
332 94.6 76.2 114.4  
141 26.5 27.0 40.6#



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

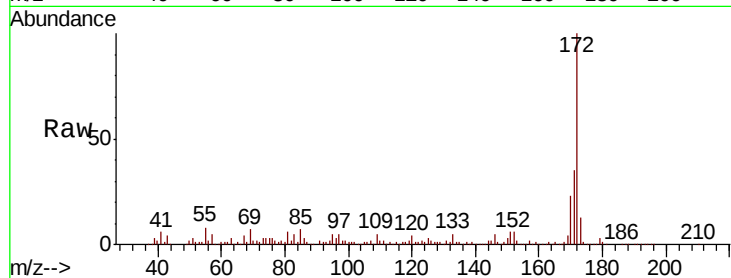




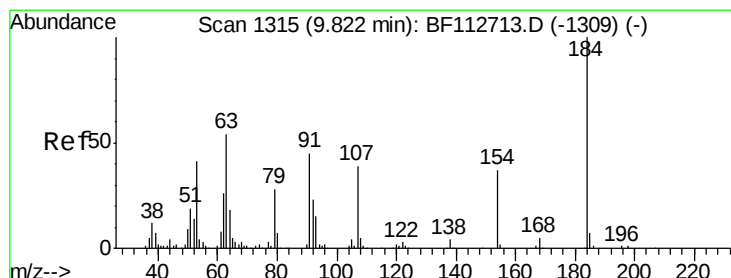
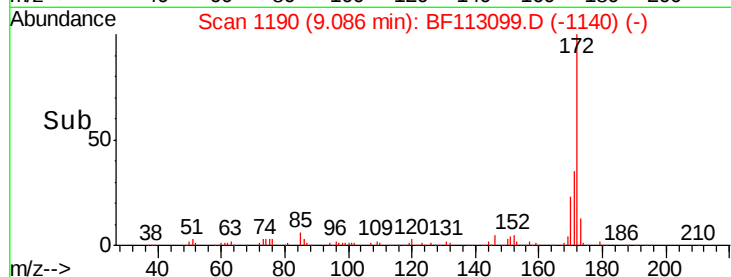
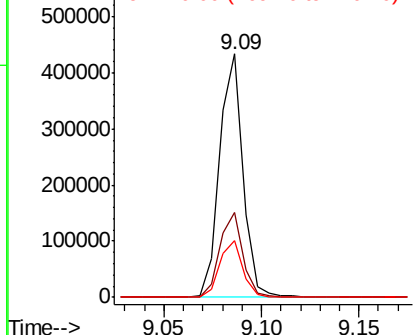
#45  
 2-Fluorobiphenyl  
 Concen: 17.317 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF113099.D  
 Acq: 18 Mar 2019 19:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-031519-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 361208 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 34.7  | 29.0  | 43.4   |
| 170      | 23.2  | 20.0  | 30.0   |

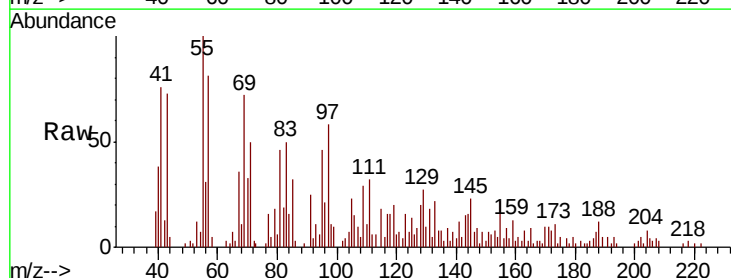


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

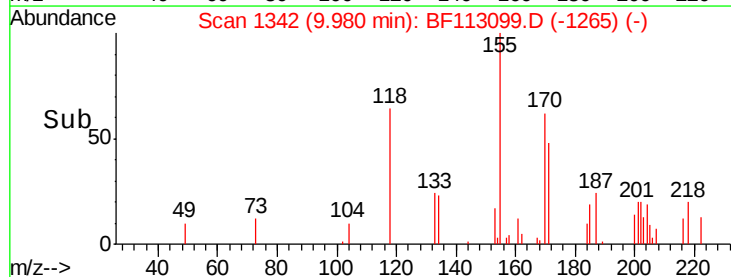
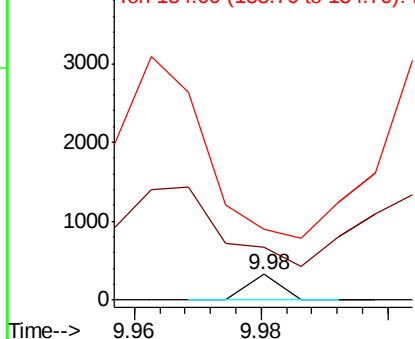


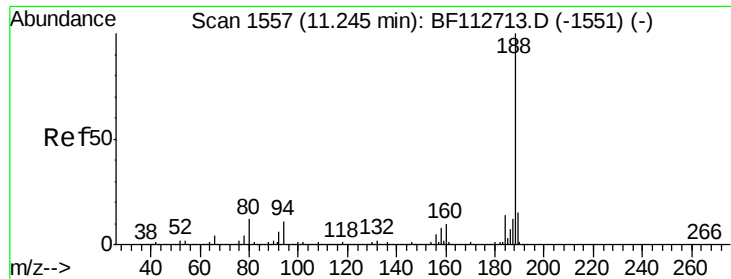
#54  
 2,4-Dinitrophenol  
 Concen: 6.516 ng  
 RT: 9.98 min Scan# 1342  
 Delta R.T. 0.15 min  
 Lab File: BF113099.D  
 Acq: 18 Mar 2019 19:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 184   | Resp: | 115   |
| Ion      | Ratio | Lower | Upper |
| 184      | 100   |       |       |
| 63       | 203.7 | 45.3  | 67.9# |
| 154      | 274.2 | 46.0  | 69.0# |



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

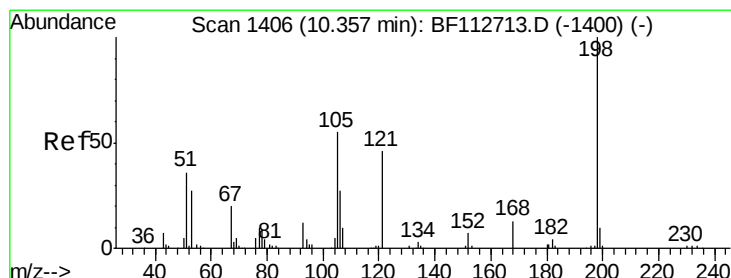
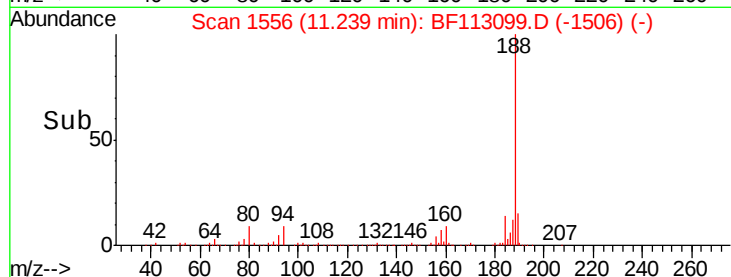
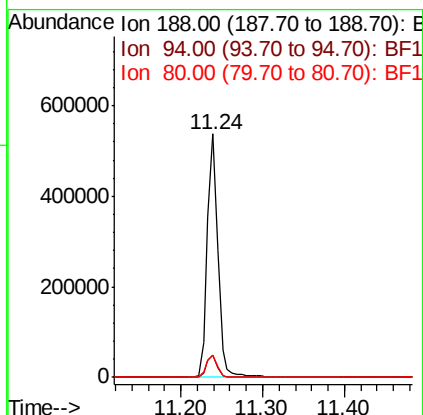
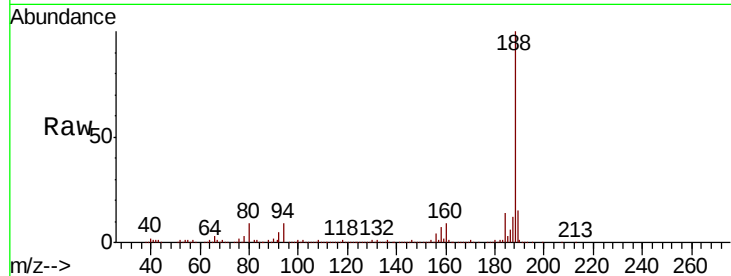




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF113099.D  
Acq: 18 Mar 2019 19:16

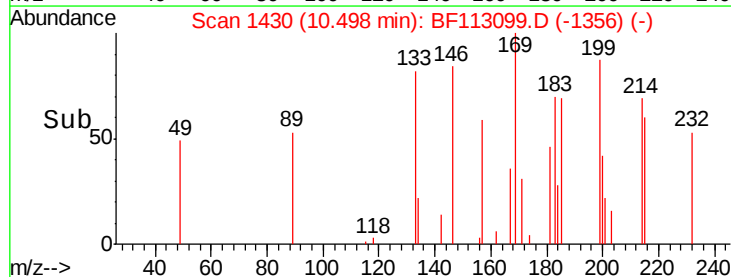
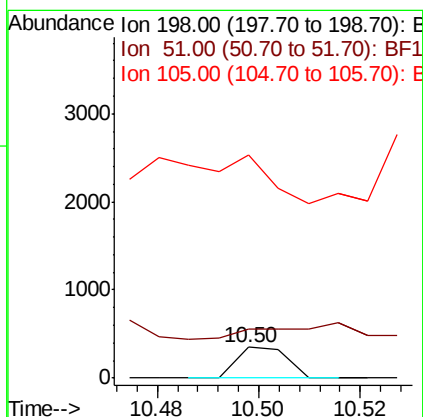
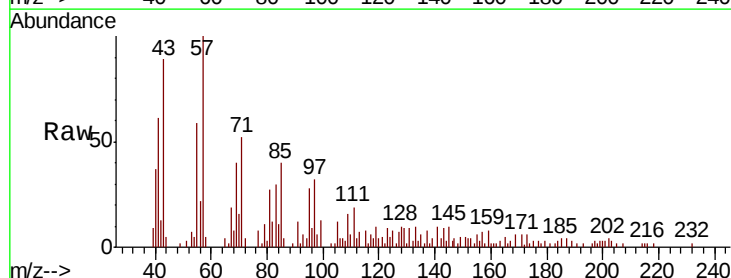
Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-031519-B

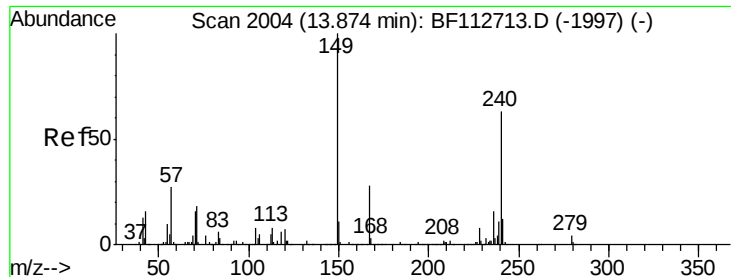
Tgt Ion:188 Resp: 489665  
Ion Ratio Lower Upper  
188 100  
94 9.0 9.0 13.4  
80 9.1 9.2 13.8#



#65  
4,6-Dinitro-2-methylphenol  
Concen: 4.719 ng  
RT: 10.50 min Scan# 1430  
Delta R.T. 0.14 min  
Lab File: BF113099.D  
Acq: 18 Mar 2019 19:16

Tgt Ion:198 Resp: 237  
Ion Ratio Lower Upper  
198 100  
51 157.4 43.8 83.8#  
105 725.1 36.5 76.5#

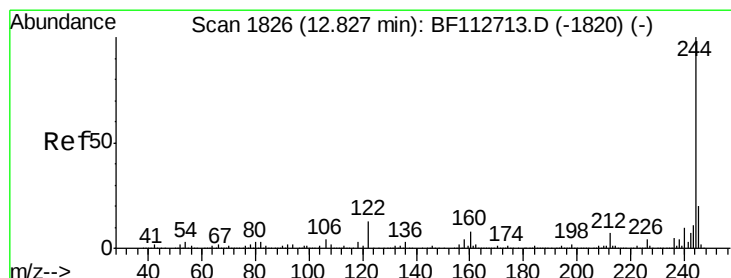
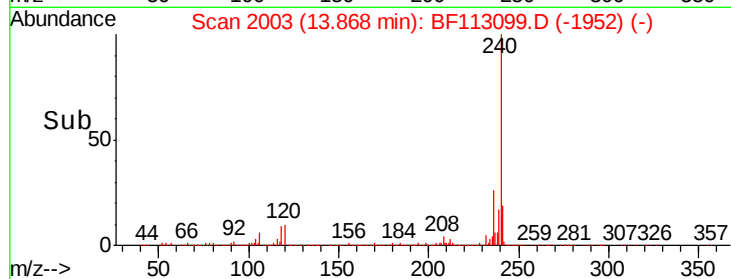
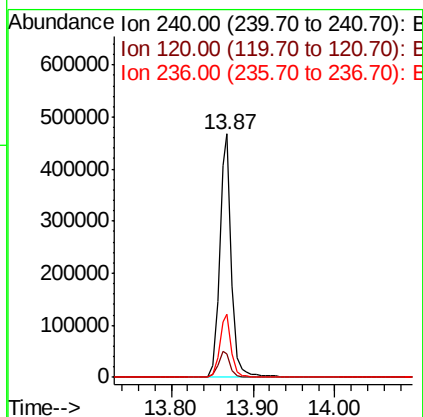
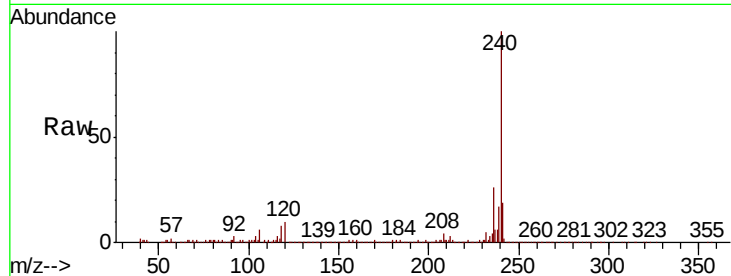




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.87 min Scan# 2003  
Delta R.T. -0.00 min  
Lab File: BF113099.D  
Acq: 18 Mar 2019 19:16

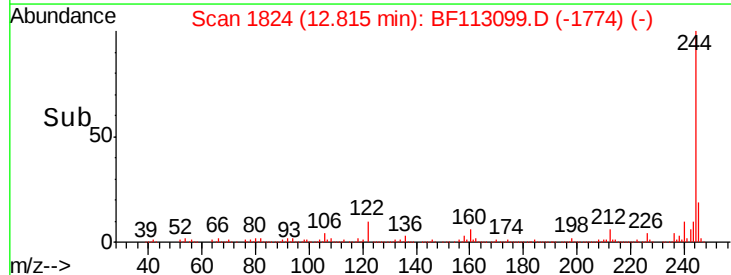
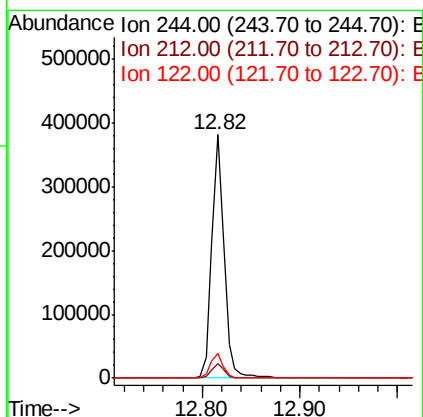
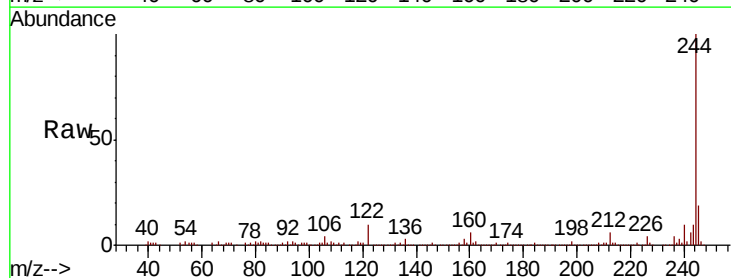
Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-031519-B

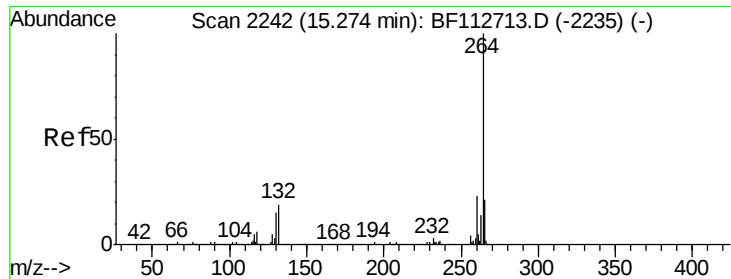
Tgt Ion:240 Resp: 461471  
Ion Ratio Lower Upper  
240 100  
120 9.8 8.9 13.3  
236 26.1 20.7 31.1



#79  
Terphenyl-d14  
Concen: 14.199 ng  
RT: 12.82 min Scan# 1824  
Delta R.T. -0.01 min  
Lab File: BF113099.D  
Acq: 18 Mar 2019 19:16

Tgt Ion:244 Resp: 338007  
Ion Ratio Lower Upper  
244 100  
212 6.2 5.6 8.4  
122 10.1 10.5 15.7#





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.28 min Scan# 2243  
Delta R.T. 0.01 min  
Lab File: BF113099.D  
Acq: 18 Mar 2019 19:16

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-031519-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 18.7  | 28.1  |
| 265     | 22.0  | 17.2  | 25.8  |

