

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\  
 Data File : BF108332.D  
 Acq On : 21 Aug 2018 12:10  
 Operator : JU/SJ  
 Sample : J4521-06RE  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHRT26100

Quant Time: Aug 21 12:57:47 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

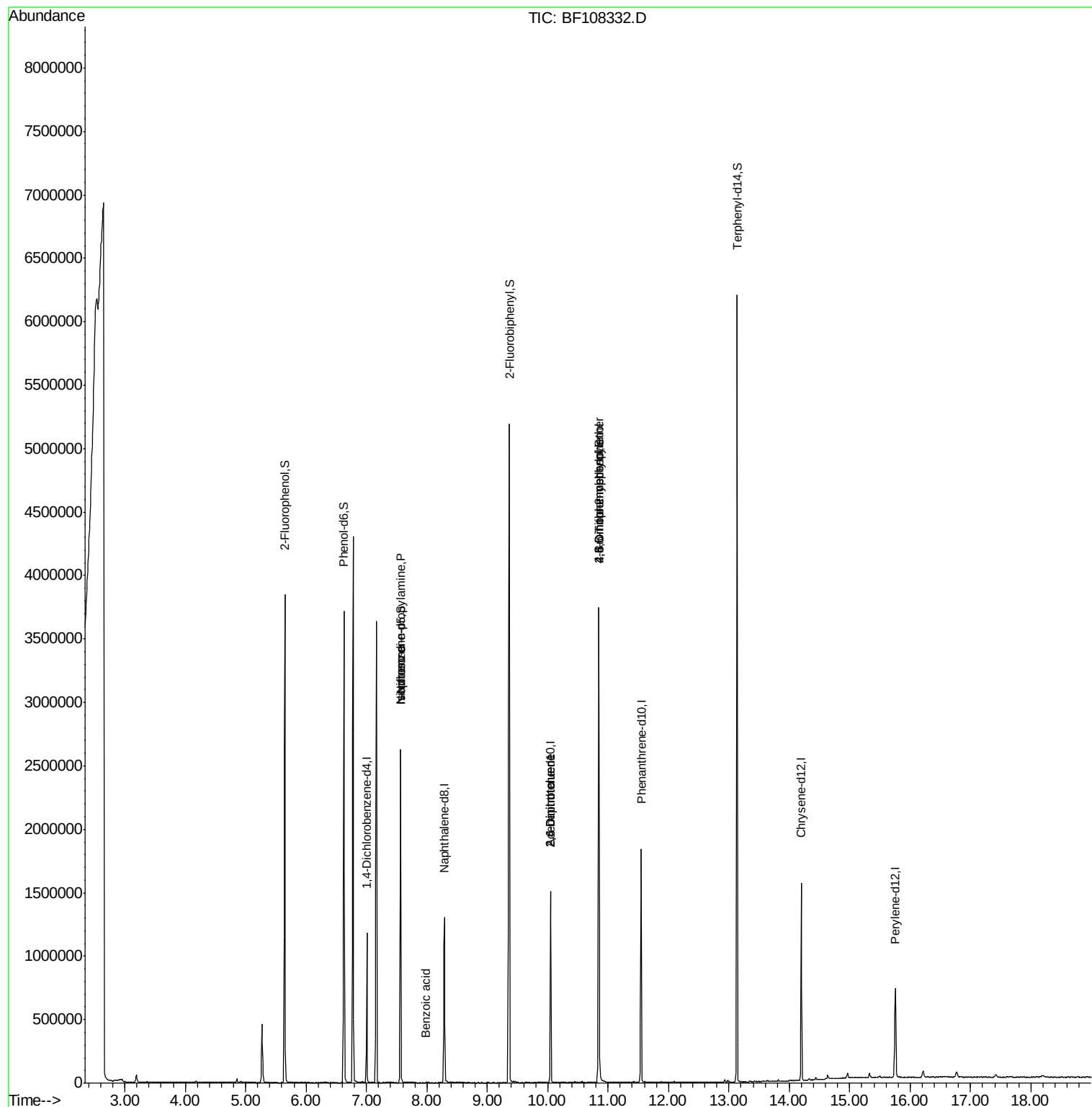
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.01  | 152  | 161784   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.29  | 136  | 600822   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 10.05 | 164  | 313290   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.55 | 188  | 665319   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 14.20 | 240  | 529613   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.75 | 264  | 352957   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.65  | 112  | 1023796  | 114.57 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.63  | 99   | 1214187  | 102.25 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.57  | 82   | 1023057  | 95.02  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.85 | 330  | 495766   | 158.65 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.37  | 172  | 1880828  | 96.38  | ng    | -0.01    |
| 78) Terphenyl-d14              | 13.14 | 244  | 2309767  | 110.89 | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.57  | 70   | 140153   | 17.453 | ng    | # 82     |
| 25) Isophorone                 | 7.57  | 82   | 1023209  | 49.858 | ng    | # 64     |
| 32) Benzoic acid               | 7.99  | 122  | 122      | 5.995  | ng    | # 83     |
| 50) 2,6-Dinitrotoluene         | 10.05 | 165  | 40474    | 8.865  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 10.05 | 165  | 40474    | 6.887  | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.84 | 198  | 1099     | 5.749  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.85 | 248  | 32958    | 4.558  | ng    | # 1      |

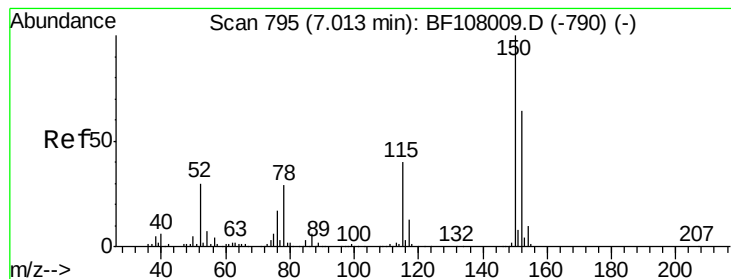
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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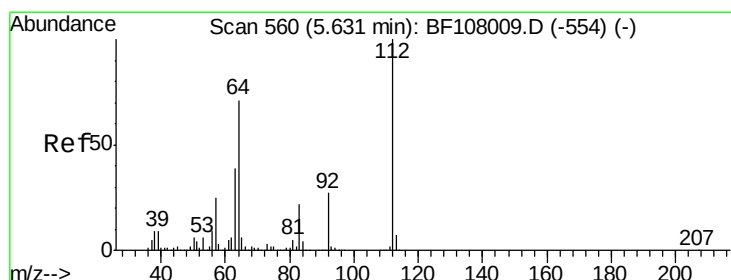
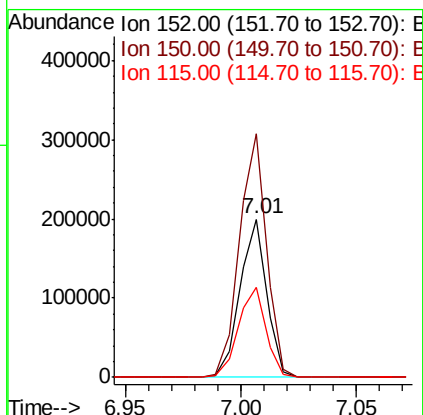
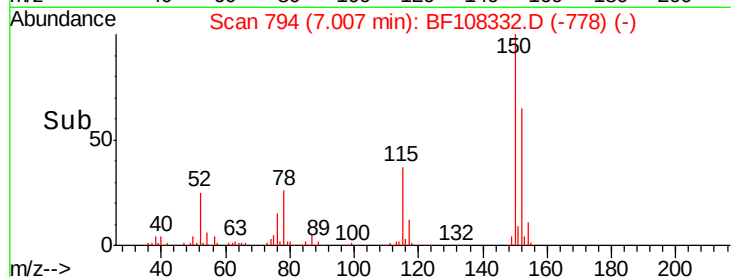
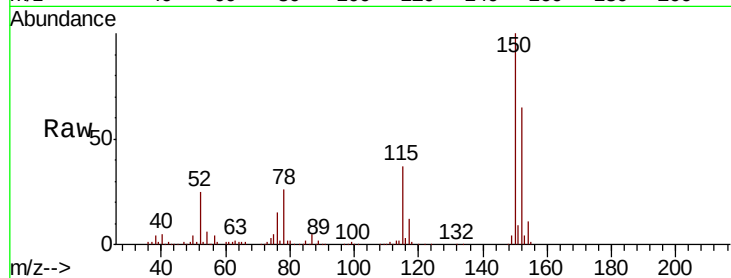


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.01 min Scan# 794  
Delta R.T. -0.01 min  
Lab File: BF108332.D  
Acq: 21 Aug 2018 12:10

Instrument :  
BNA\_F  
ClientSampleId :  
CHRT26100

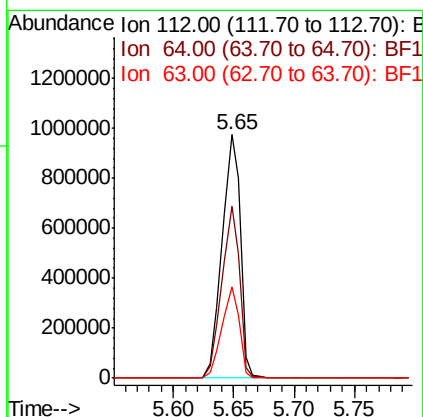
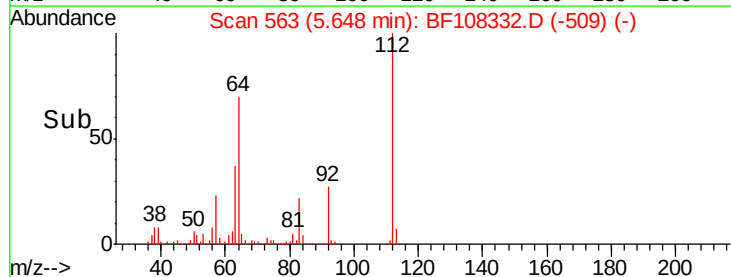
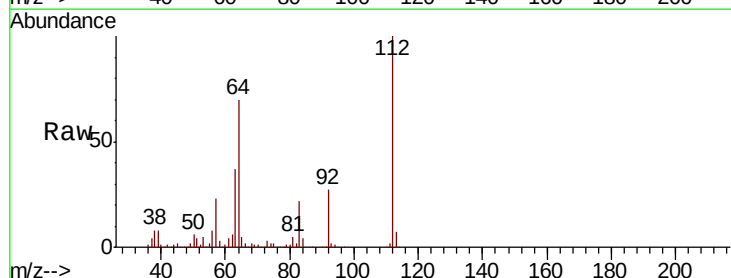
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.0 | 124.6 | 186.8 |
| 115     | 57.0  | 50.1  | 75.1  |

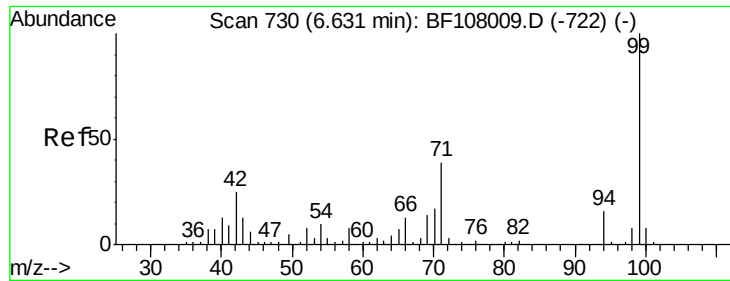


#5

2-Fluorophenol  
Concen: 114.569 ng  
RT: 5.65 min Scan# 563  
Delta R.T. 0.02 min  
Lab File: BF108332.D  
Acq: 21 Aug 2018 12:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.4  | 47.9  | 71.9  |
| 63      | 37.3  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 102.248 ng

RT: 6.63 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF108332.D

Acq: 21 Aug 2018 12:10

Instrument :

BNA\_F

ClientSampleId :

CHRT26100

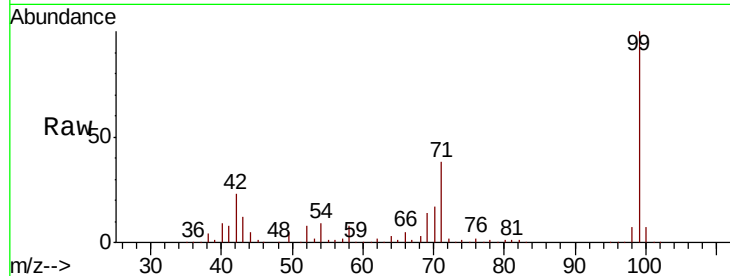
Tot Ion: 99 Resp: 1214187

Ion Ratio Lower Upper

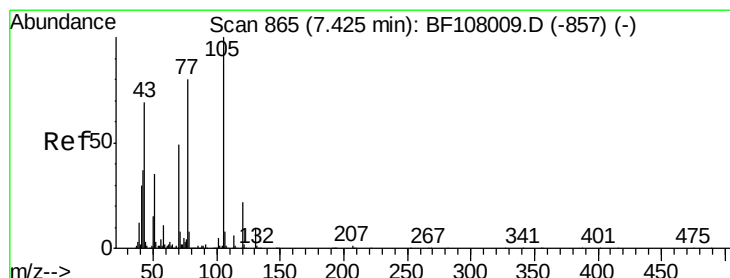
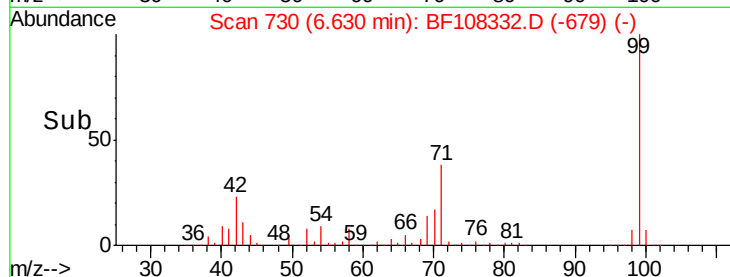
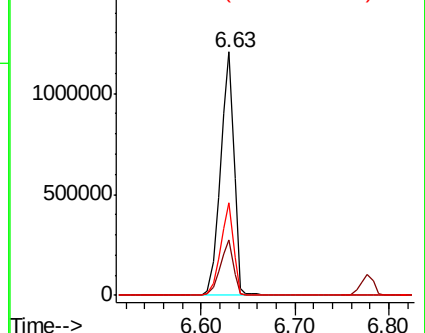
99 100

42 22.9 14.5 21.7#

71 38.0 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: 17.453 ng

RT: 7.57 min Scan# 889

Delta R.T. 0.14 min

Lab File: BF108332.D

Acq: 21 Aug 2018 12:10

Tgt Ion: 70 Resp: 140153

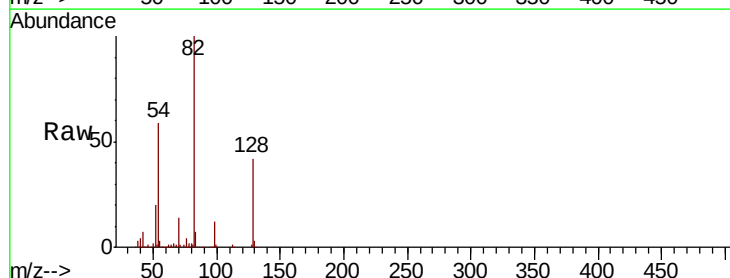
Ion Ratio Lower Upper

70 100

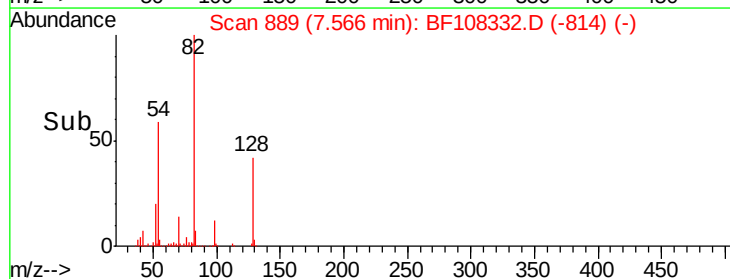
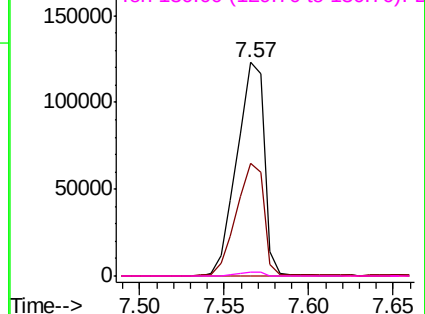
42 52.9 47.5 71.3

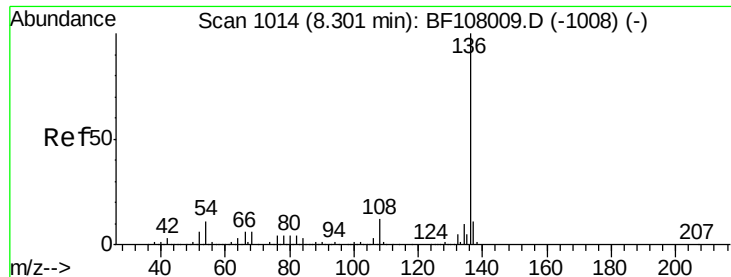
101 0.0 7.4 11.2#

130 1.7 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

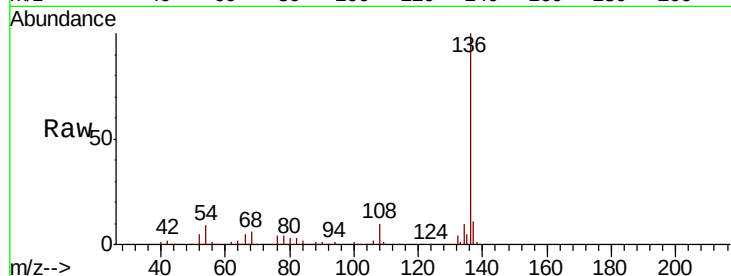




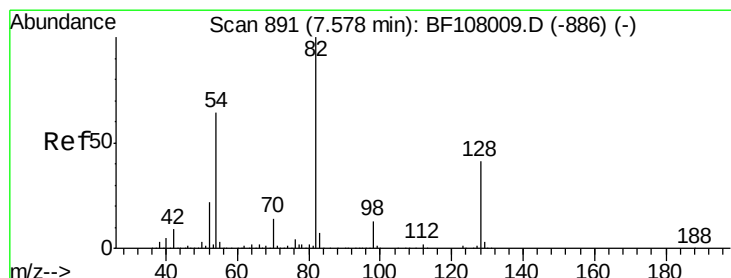
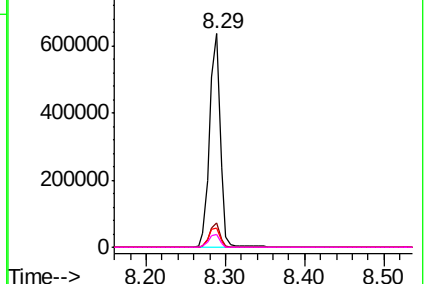
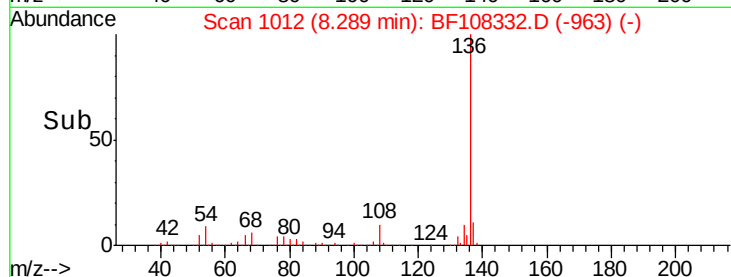
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.29 min Scan# 1012  
Delta R.T. -0.01 min  
Lab File: BF108332.D  
Acq: 21 Aug 2018 12:10

Instrument :  
BNA\_F  
ClientSampleId :  
CHRT26100

|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 600822 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 11.2    | 8.9   | 13.3   |  |
| 54 9.0      | 6.6   | 9.8    |  |
| 68 5.7      | 5.0   | 7.4    |  |

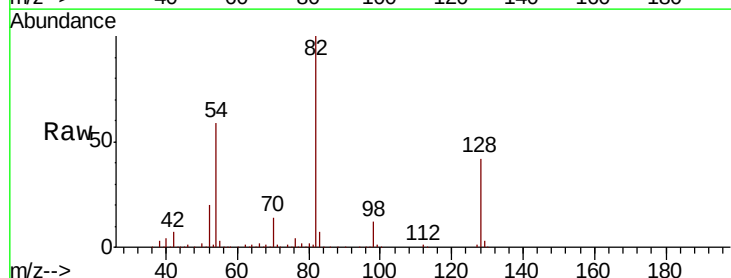


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

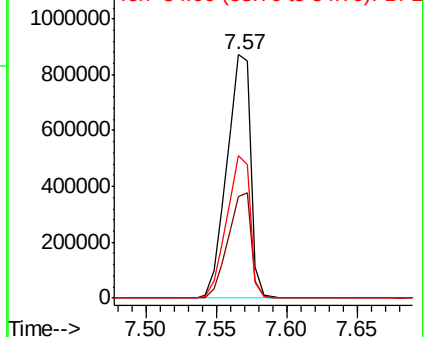
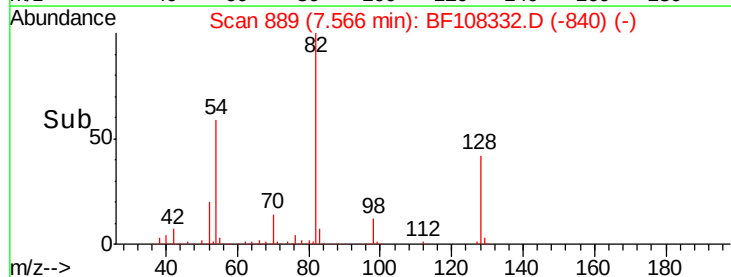


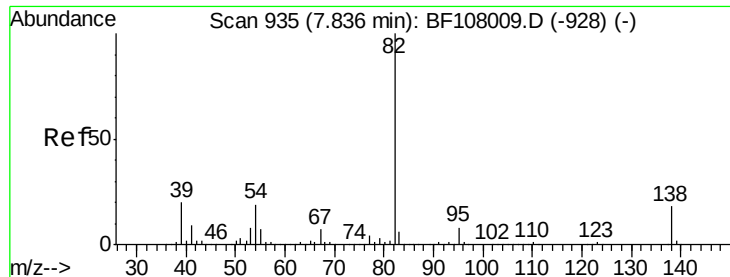
#23  
Nitrobenzene-d5  
Concen: 95.017 ng  
RT: 7.57 min Scan# 889  
Delta R.T. -0.01 min  
Lab File: BF108332.D  
Acq: 21 Aug 2018 12:10

|             |               |
|-------------|---------------|
| Tgt Ion: 82 | Resp: 1023057 |
| Ion Ratio   | Lower Upper   |
| 82 100      |               |
| 128 41.7    | 36.1 54.1     |
| 54 58.5     | 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: 49.858 ng

RT: 7.57 min Scan# 889

Delta R.T. -0.27 min

Lab File: BF108332.D

Acq: 21 Aug 2018 12:10

Instrument :

BNA\_F

ClientSampleId :

CHRT26100

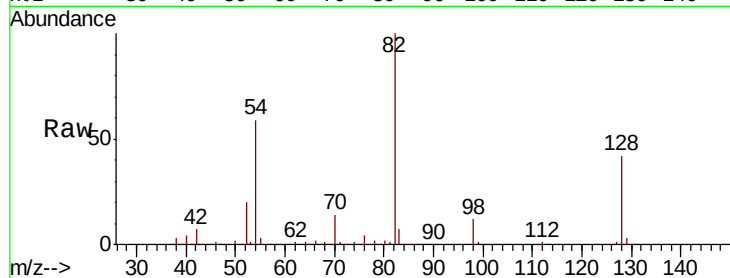
Tot Ion: 82 Resp: 1023209

Ion Ratio Lower Upper

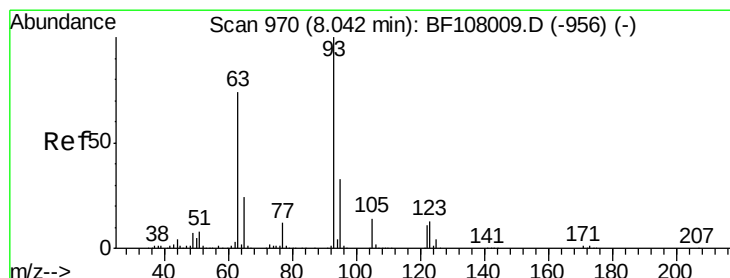
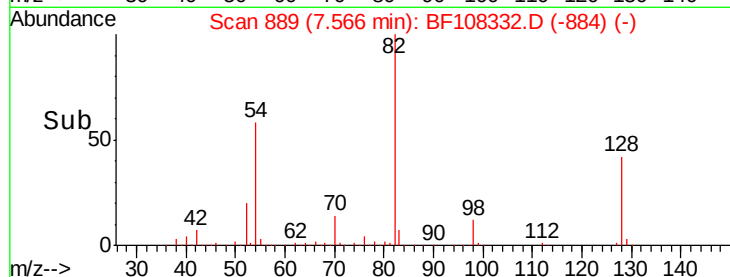
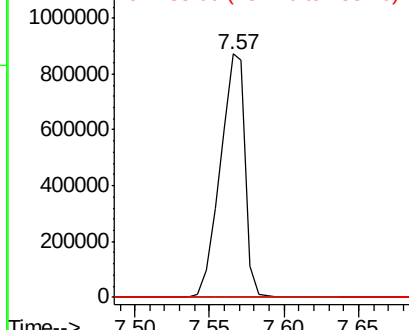
82 100

95 0.0 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: 5.995 ng

RT: 7.99 min Scan# 961

Delta R.T. -0.05 min

Lab File: BF108332.D

Acq: 21 Aug 2018 12:10

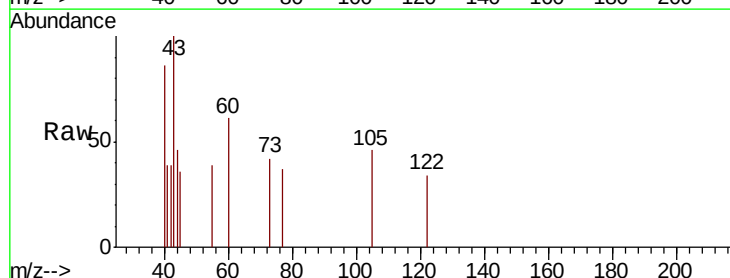
Tgt Ion:122 Resp: 122

Ion Ratio Lower Upper

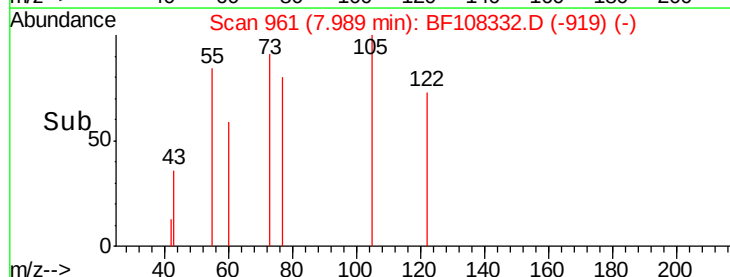
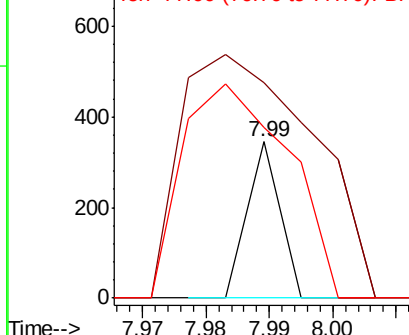
122 100

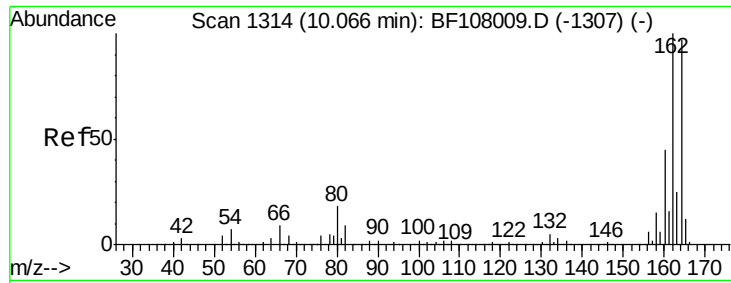
105 137.4 101.1 141.1

77 109.3 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

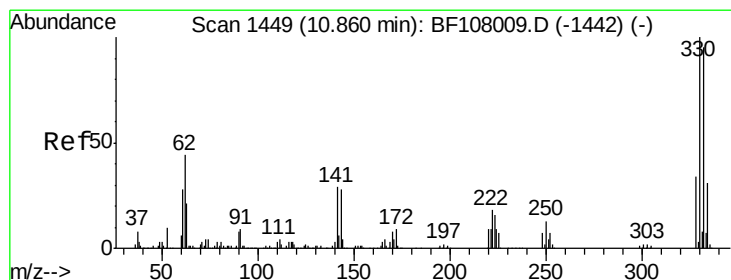
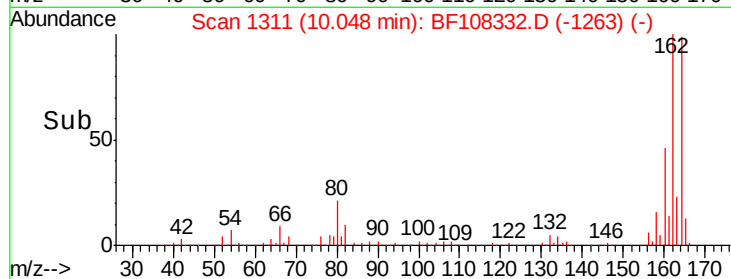
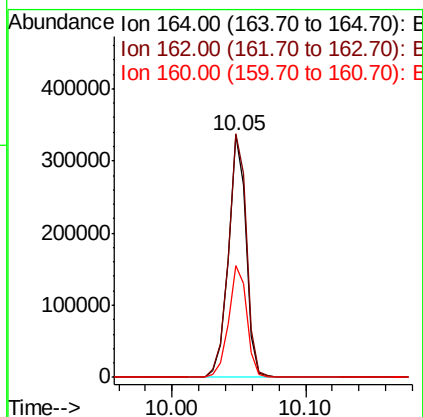
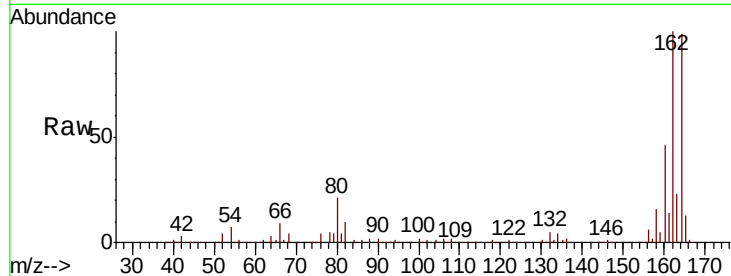




#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.05 min Scan# 1311  
Delta R.T. -0.02 min  
Lab File: BF108332.D  
Acq: 21 Aug 2018 12:10

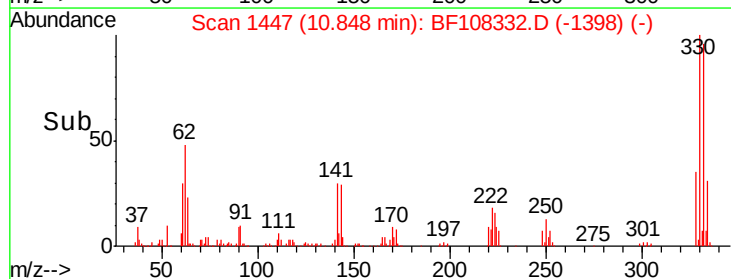
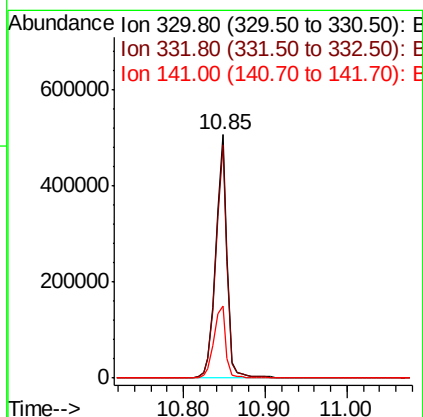
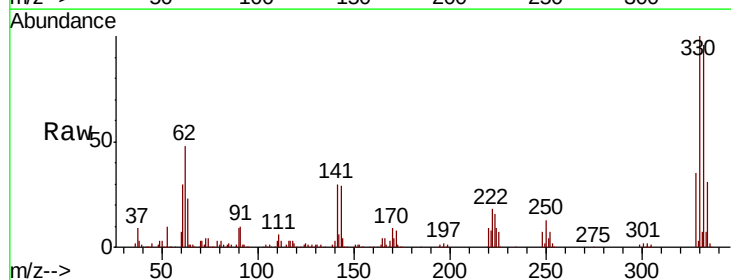
Instrument :  
BNA\_F  
ClientSampleId :  
CHRT26100

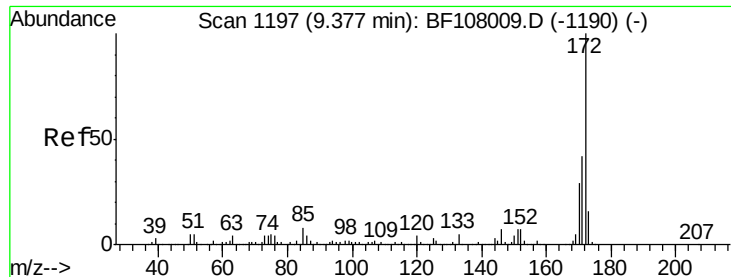
Tot Ion:164 Resp: 313290  
Ion Ratio Lower Upper  
164 100  
162 100.7 86.1 129.1  
160 46.3 38.3 57.5



#41  
2,4,6-Tribromophenol  
Concen: 158.646 ng  
RT: 10.85 min Scan# 1447  
Delta R.T. -0.01 min  
Lab File: BF108332.D  
Acq: 21 Aug 2018 12:10

Tgt Ion:330 Resp: 495766  
Ion Ratio Lower Upper  
330 100  
332 95.9 77.0 115.6  
141 31.5 29.9 44.9

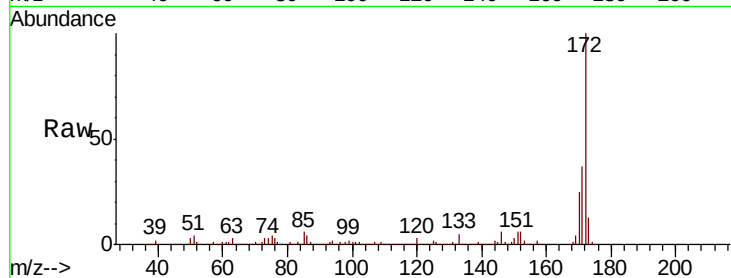




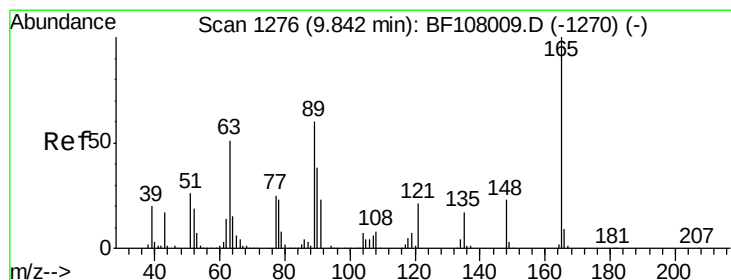
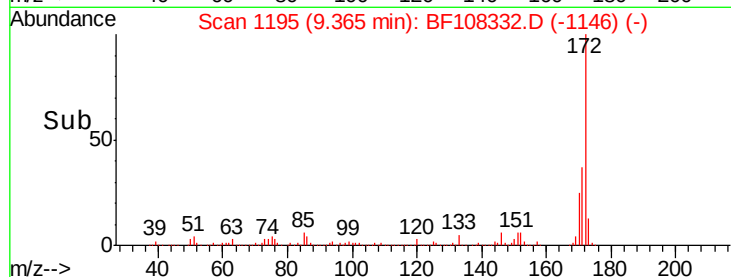
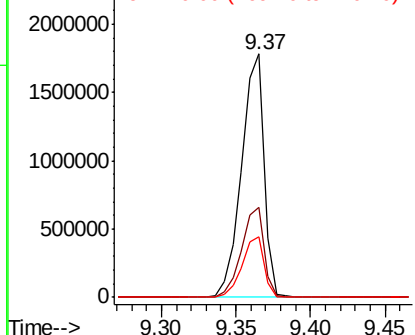
#44  
2-Fluorobiphenyl  
Concen: 96.384 ng  
RT: 9.37 min Scan# 1195  
Delta R.T. -0.01 min  
Lab File: BF108332.D  
Acq: 21 Aug 2018 12:10

Instrument :  
BNA\_F  
ClientSampleId :  
CHRT26100

Tot Ion:172 Resp: 1880828  
Ion Ratio Lower Upper  
172 100  
171 36.9 29.7 44.5  
170 24.7 19.6 29.4

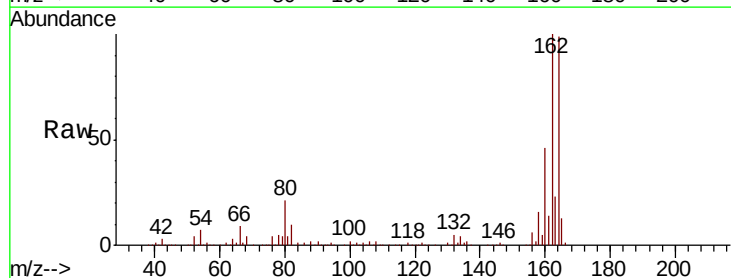


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

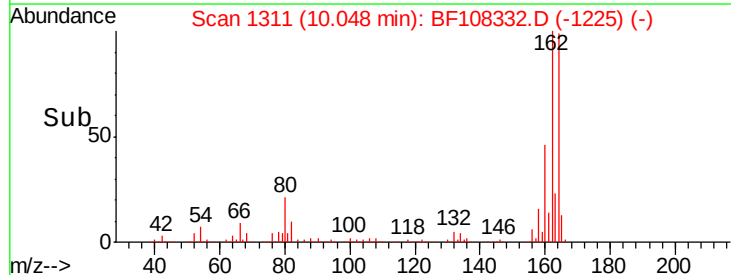
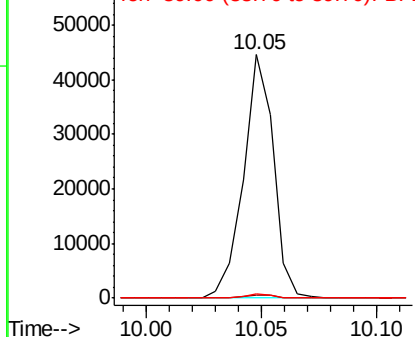


#50  
2,6-Dinitrotoluene  
Concen: 8.865 ng  
RT: 10.05 min Scan# 1311  
Delta R.T. 0.21 min  
Lab File: BF108332.D  
Acq: 21 Aug 2018 12:10

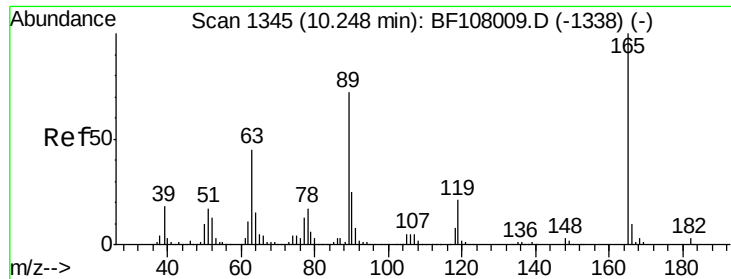
Tgt Ion:165 Resp: 40474  
Ion Ratio Lower Upper  
165 100  
63 1.4 44.7 67.1#  
89 1.8 44.0 66.0#



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



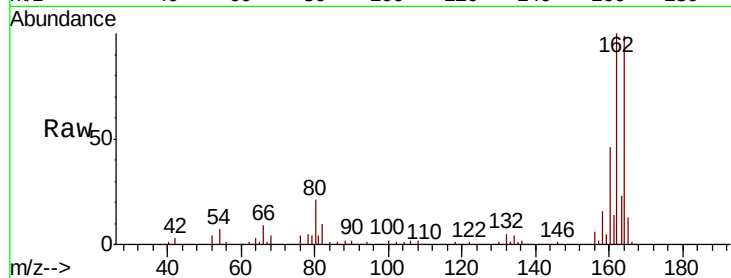




#56  
 2,4-Dinitrotoluene  
 Concen: 6.887 ng  
 RT: 10.05 min Scan# 1311  
 Delta R.T. -0.20 min  
 Lab File: BF108332.D  
 Acq: 21 Aug 2018 12:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHRT26100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 36.4  | 54.6# |
| 89      | 1.8   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

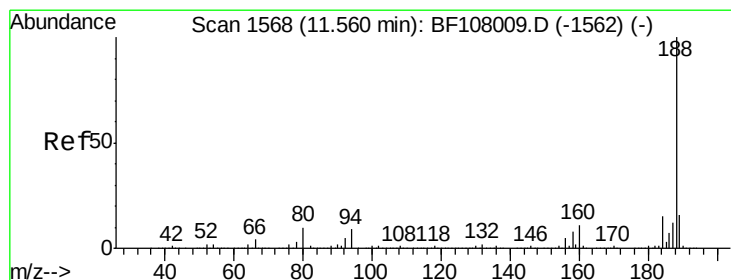
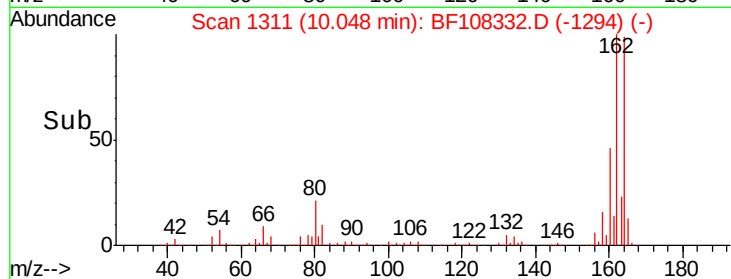
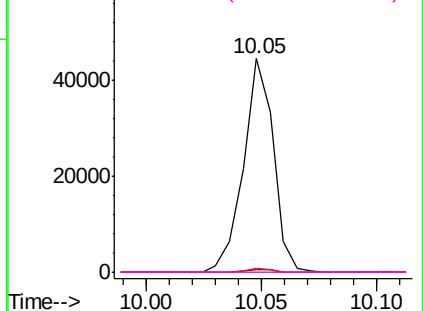


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

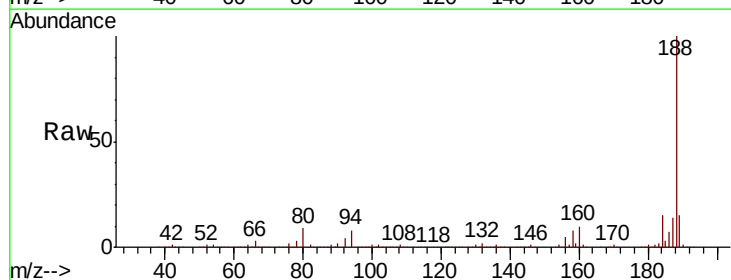
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.55 min Scan# 1566  
 Delta R.T. -0.01 min  
 Lab File: BF108332.D  
 Acq: 21 Aug 2018 12:10

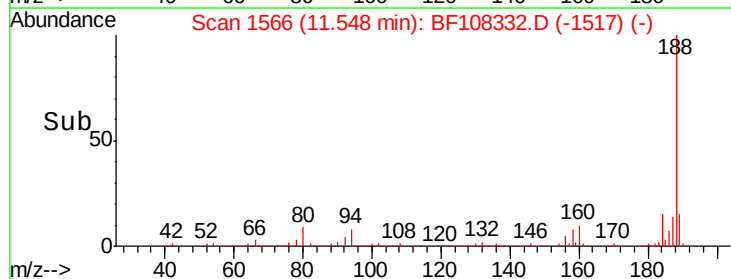
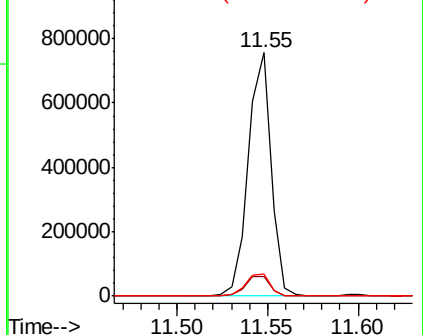
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.1   | 8.5   | 12.7# |
| 80      | 9.1   | 9.2   | 13.8# |

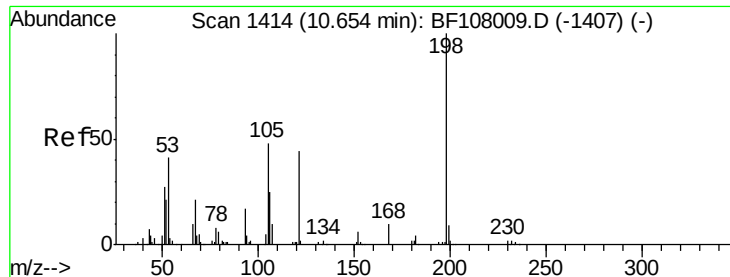


Abundance Ion 188.00 (187.70 to 188.70): E

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: 5.749 ng

RT: 10.84 min Scan# 1446

Delta R.T. 0.19 min

Lab File: BF108332.D

Acq: 21 Aug 2018 12:10

Instrument :

BNA\_F

ClientSampleId :

CHRT26100

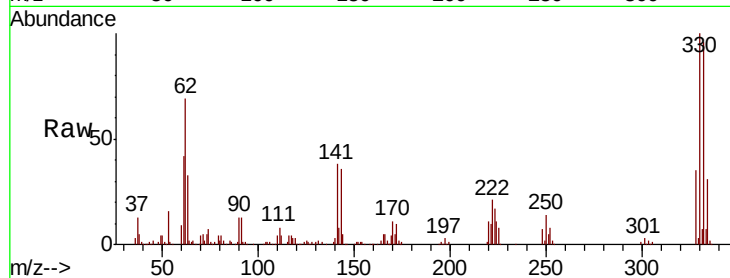
Tot Ion:198 Resp: 1099

Ion Ratio Lower Upper

198 100

51 166.9 37.7 77.7#

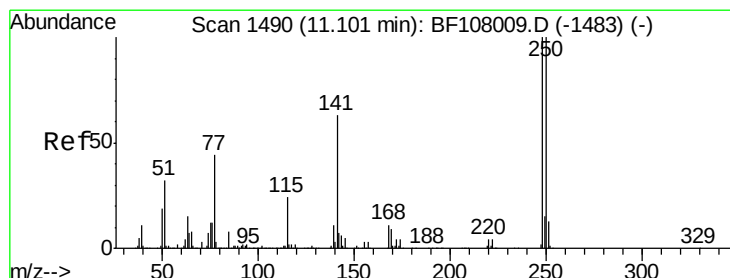
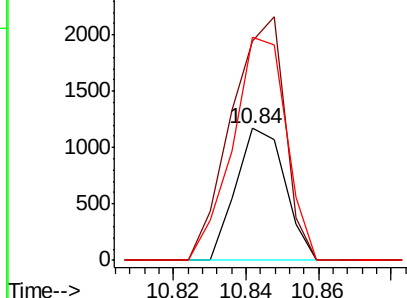
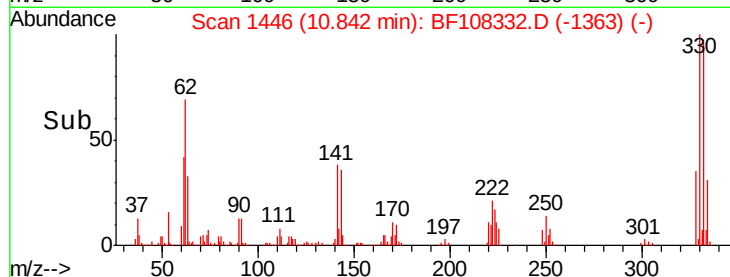
105 169.2 36.3 76.3#



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: 4.558 ng

RT: 10.85 min Scan# 1447

Delta R.T. -0.25 min

Lab File: BF108332.D

Acq: 21 Aug 2018 12:10

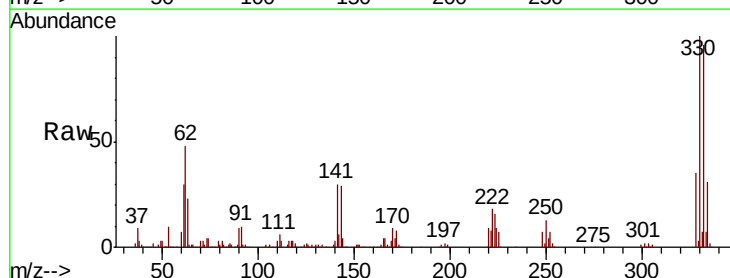
Tgt Ion:248 Resp: 32958

Ion Ratio Lower Upper

248 100

250 189.6 76.9 115.3#

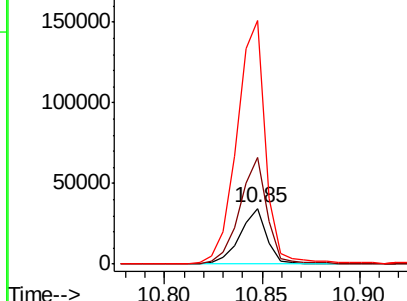
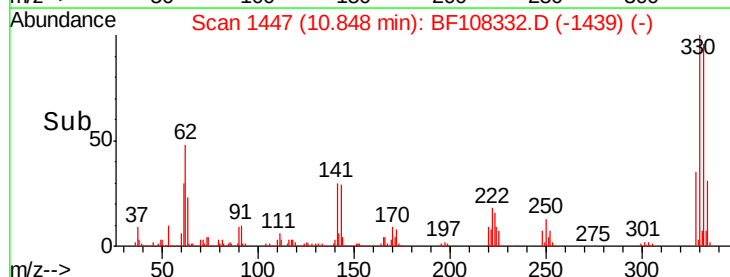
141 434.9 74.4 111.6#

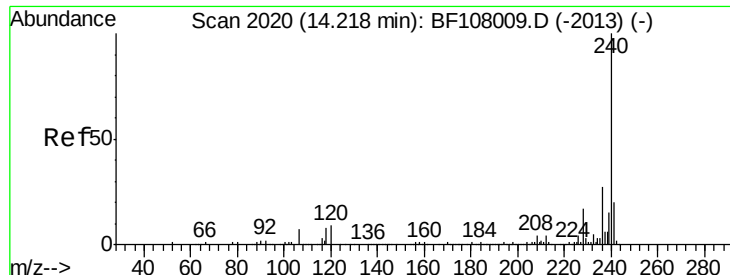


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.20 min Scan# 2017

Delta R.T. -0.02 min

Lab File: BF108332.D

Acq: 21 Aug 2018 12:10

Instrument :

BNA\_F

ClientSampleId :

CHRT26100

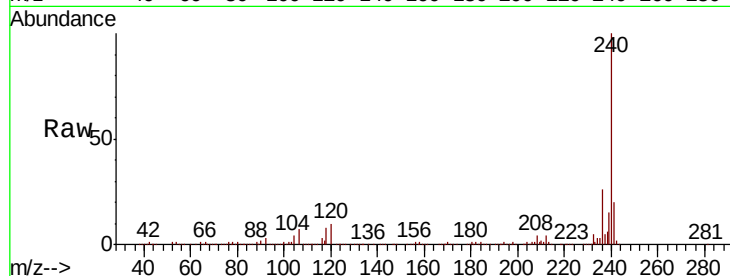
Tot Ion:240 Resp: 529613

Ion Ratio Lower Upper

240 100

120 9.9 9.5 14.3

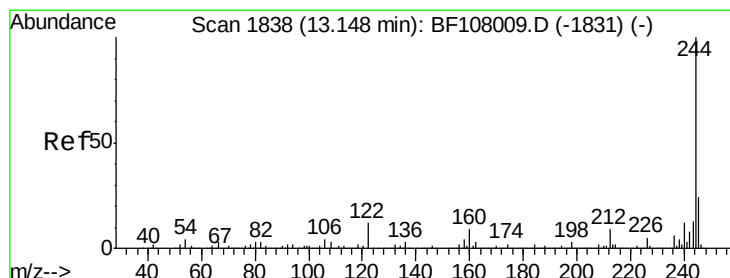
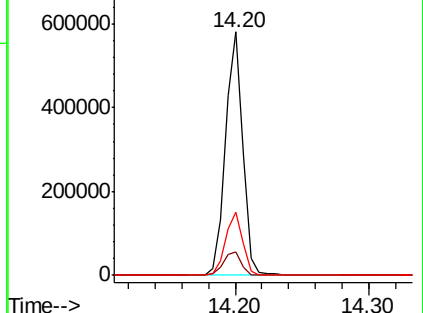
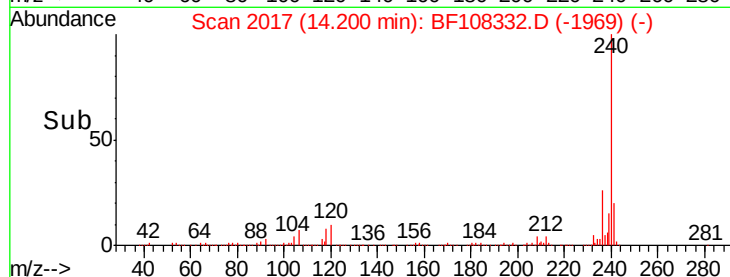
236 26.2 20.7 31.1



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



#78

Terphenyl-d14

Concen: 110.887 ng

RT: 13.14 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BF108332.D

Acq: 21 Aug 2018 12:10

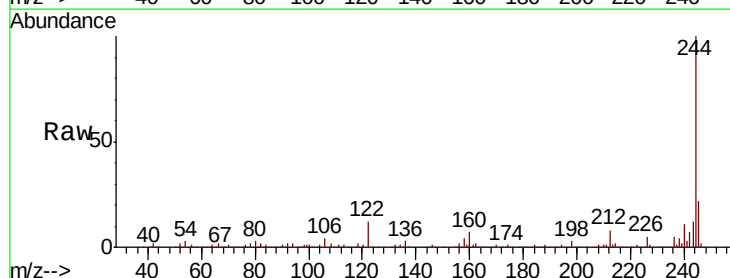
Tgt Ion:244 Resp: 2309767

Ion Ratio Lower Upper

244 100

212 8.1 5.4 8.0#

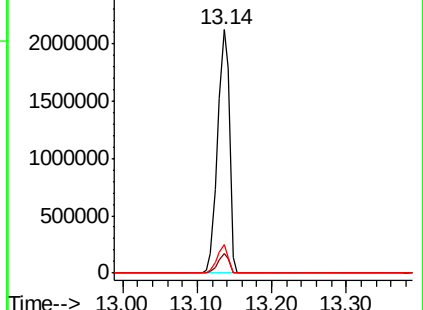
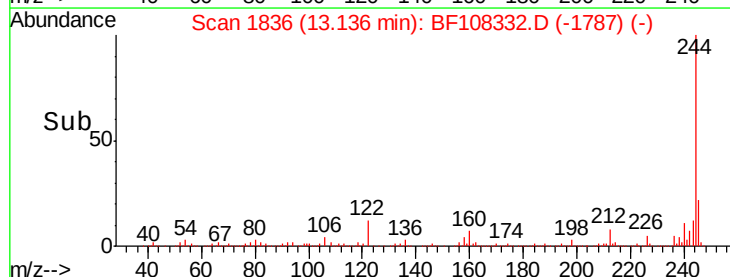
122 11.9 11.0 16.4

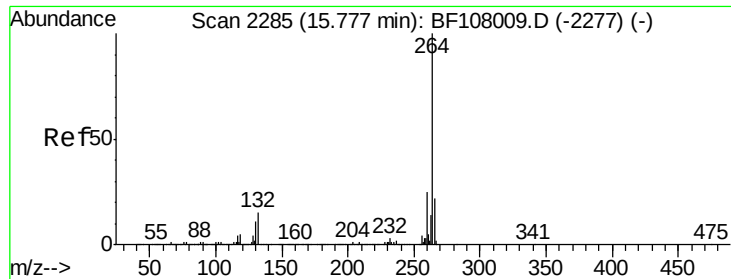


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.75 min Scan# 2281  
Delta R.T. -0.02 min  
Lab File: BF108332.D  
Acq: 21 Aug 2018 12:10

Instrument :  
BNA\_F  
ClientSampleId :  
CHRT26100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.2  | 28.8  |
| 265     | 22.2  | 17.5  | 26.3  |

