

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010319\  
 Data File : BF111819.D  
 Acq On : 3 Jan 2019 14:24  
 Operator : JU/SJ  
 Sample : PB116115BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 03 14:52:00 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 03 14:48:09 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.90  | 152  | 202253   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.18  | 136  | 787988   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.94  | 164  | 569291   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.42 | 188  | 831586   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.06 | 240  | 771647   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.55 | 264  | 670997   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.55  | 112  | 1849189  | 155.84 | ng    | 0.02     |
| 7) Phenol-d6                | 6.55  | 99   | 2380771  | 157.66 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.46  | 82   | 1121116  | 82.82  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.73 | 330  | 635238   | 94.44  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.26  | 172  | 2230526  | 57.11  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.02 | 244  | 2723294  | 66.93  | ng    | 0.00     |

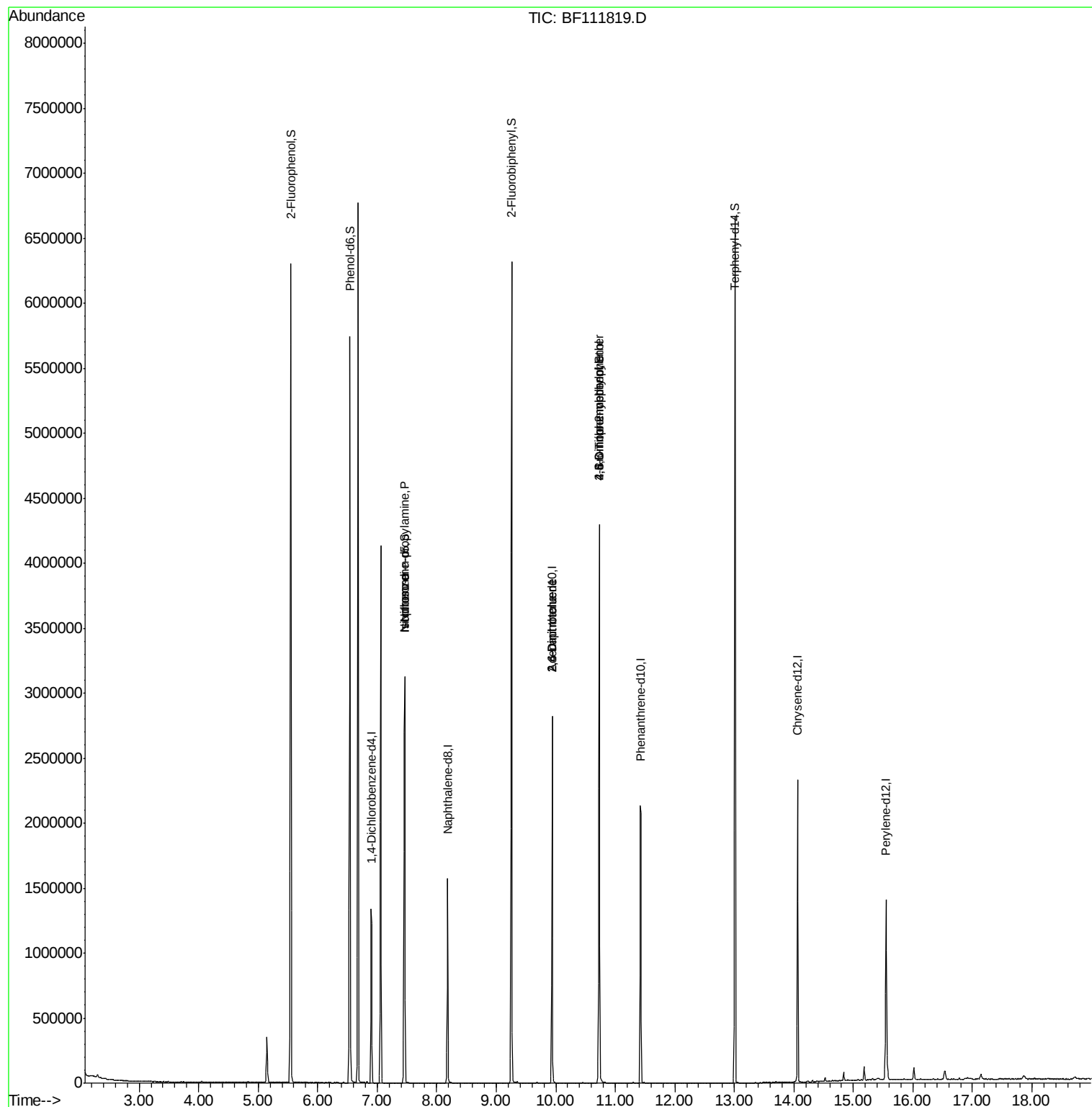
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 155464   | 15.502 | ng    | # 75   |
| 25) Isophorone                 | 7.46  | 82   | 1115882  | 46.431 | ng    | # 64   |
| 51) 2,6-Dinitrotoluene         | 9.94  | 165  | 75373    | 9.080  | ng    | # 30   |
| 57) 2,4-Dinitrotoluene         | 9.94  | 165  | 75373    | 7.555  | ng    | # 25   |
| 65) 4,6-Dinitro-2-methylphenol | 10.73 | 198  | 1014     | 6.947  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.73 | 248  | 39338    | 3.814  | ng    | # 1    |

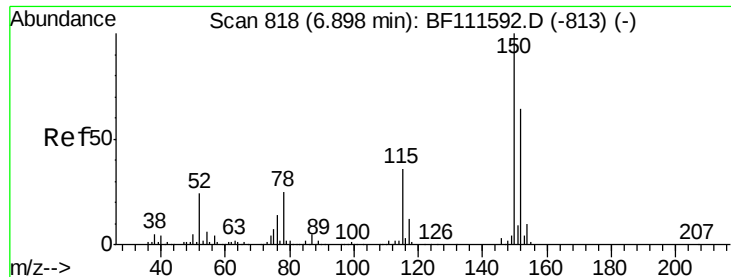
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010319\  
Data File : BF111819.D  
Acq On : 3 Jan 2019 14:24  
Operator : JU/SJ  
Sample : PB116115BL  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jan 03 14:52:00 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 03 14:48:09 2019  
Response via : Initial Calibration



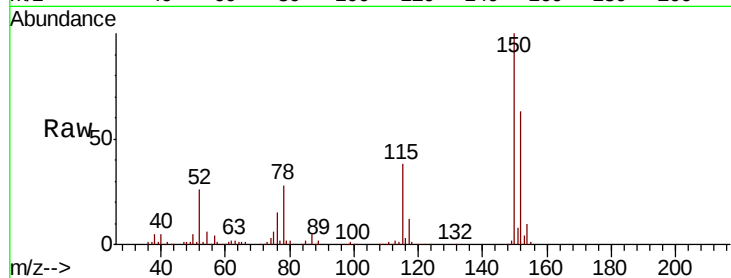


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.90 min Scan# 818  
Delta R.T. -0.01 min  
Lab File: BF111819.D  
Acq: 3 Jan 2019 14:24

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.0 | 126.6 | 189.8 |
| 115     | 60.4  | 50.7  | 76.1  |

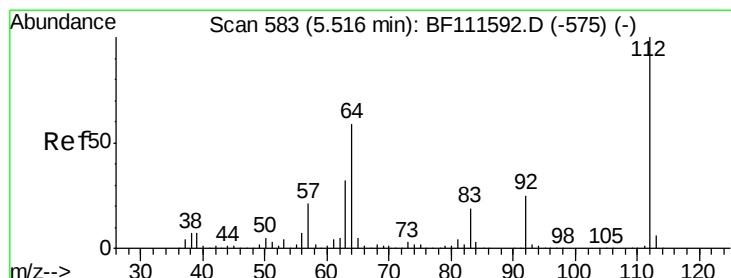
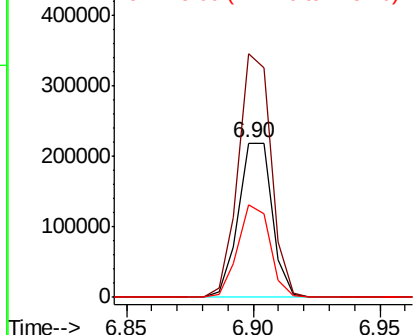
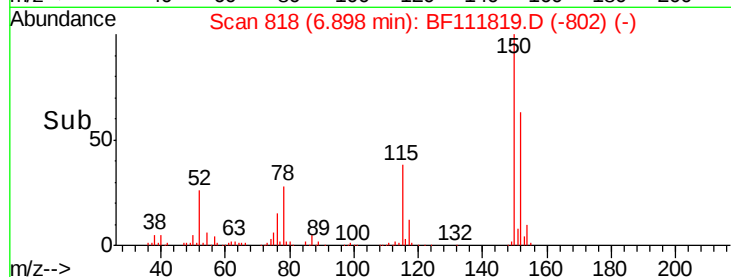


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

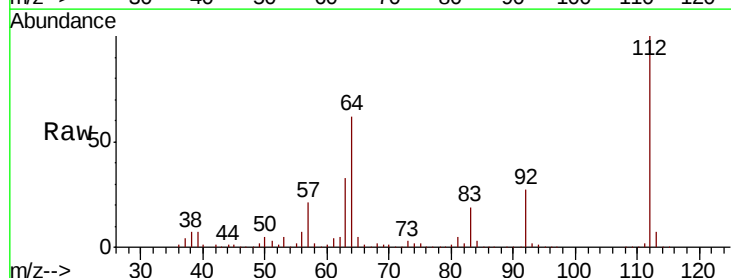
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 155.845 ng  
RT: 5.55 min Scan# 589  
Delta R.T. 0.02 min  
Lab File: BF111819.D  
Acq: 3 Jan 2019 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.2  | 51.8  | 77.6  |
| 63      | 33.2  | 26.8  | 40.2  |

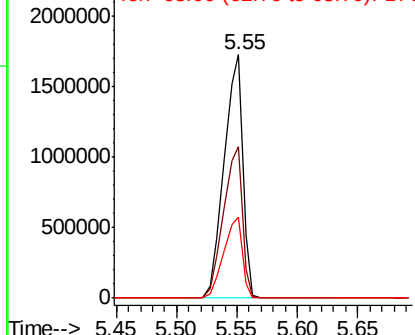
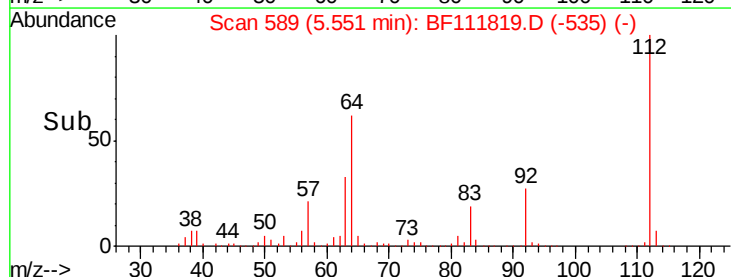


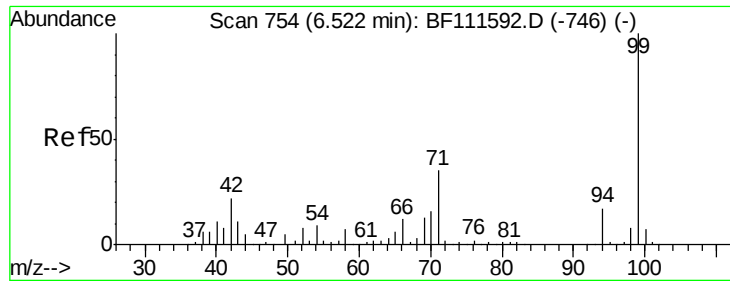
Abundance

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: 157.659 ng

RT: 6.55 min Scan# 758

Delta R.T. -0.00 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

Instrument :

BNA\_F

ClientSampled :

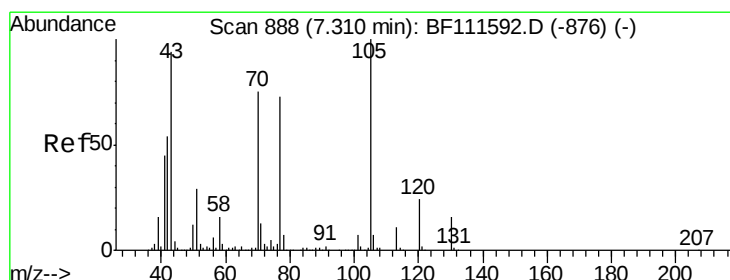
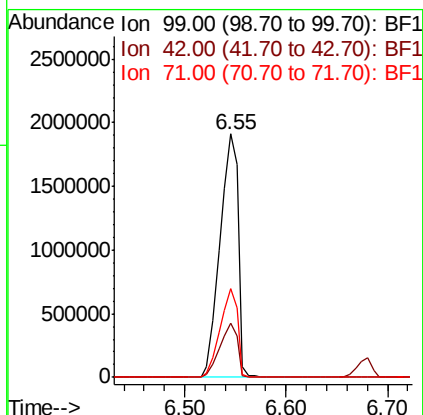
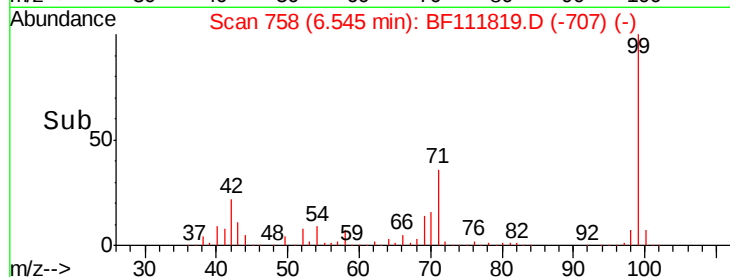
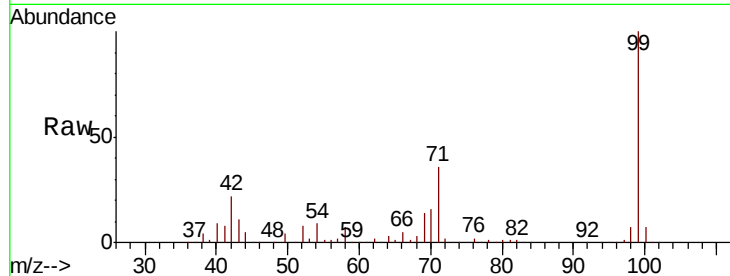
Tot Ion: 99 Resp: 2380771

Ion Ratio Lower Upper

99 100

42 22.3 17.4 26.0

71 36.3 26.1 39.1



#19

n-Nitroso-di-n-propylamine

Concen: 15.502 ng

RT: 7.46 min Scan# 914

Delta R.T. 0.15 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

Tgt Ion: 70 Resp: 155464

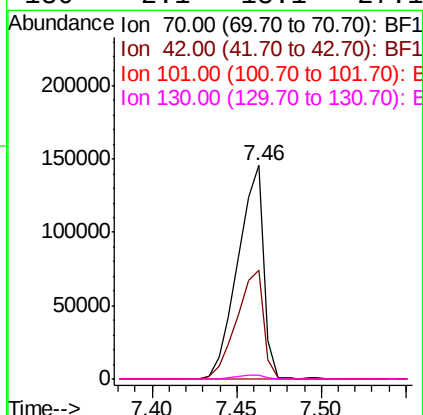
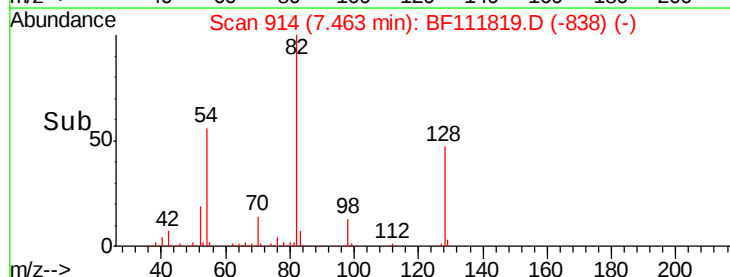
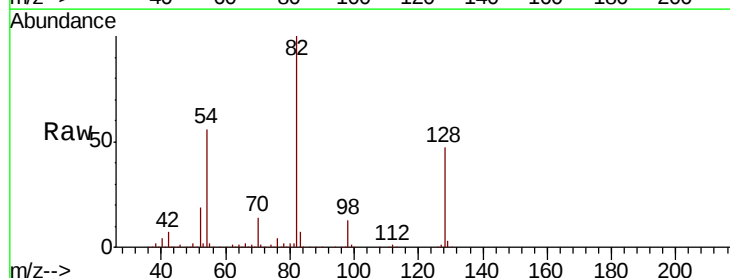
Ion Ratio Lower Upper

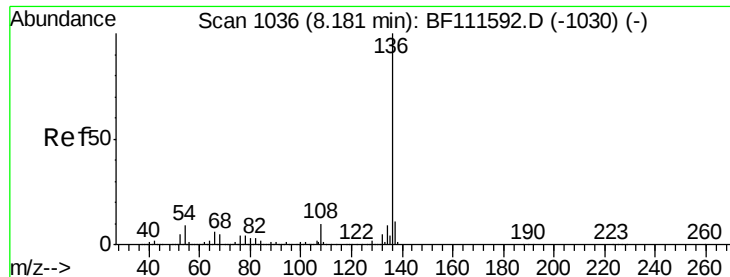
70 100

42 51.1 53.2 79.8#

101 0.0 8.2 12.4#

130 2.1 18.1 27.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.18 min Scan# 1036

Delta R.T. -0.01 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 787988

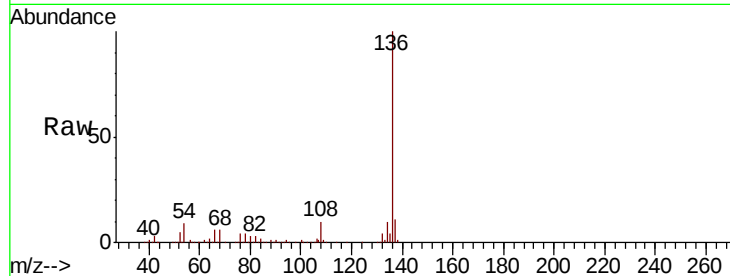
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 8.8 7.7 11.5

68 5.9 4.9 7.3

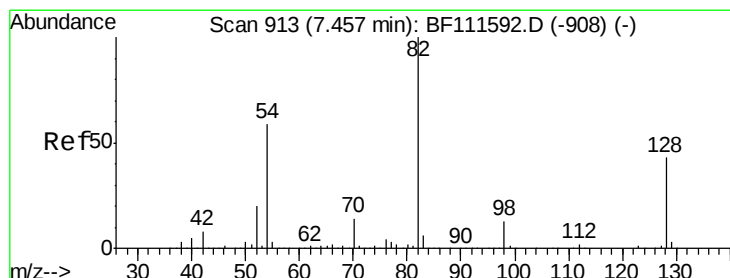
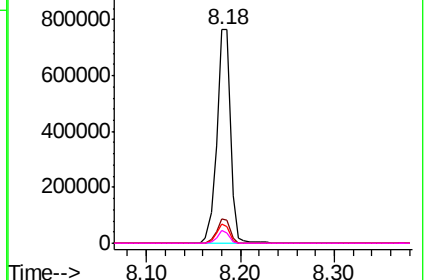
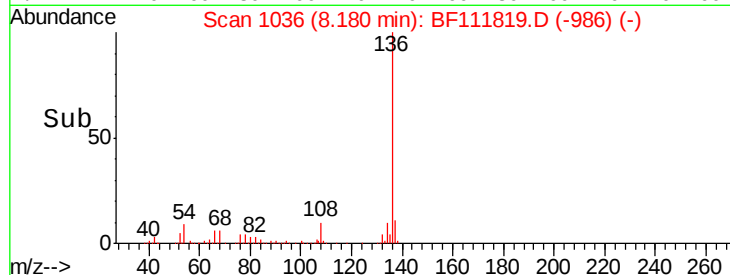


Abundance Ion 136.00 (135.70 to 136.70): E

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: 82.815 ng

RT: 7.46 min Scan# 914

Delta R.T. -0.01 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

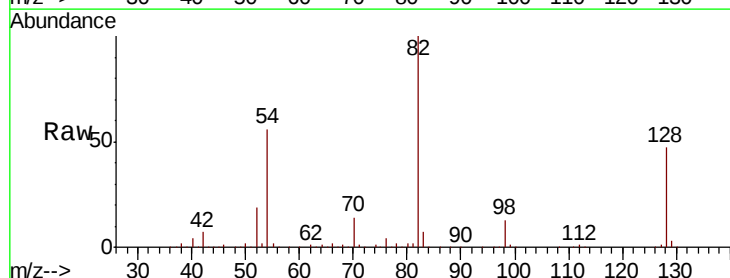
Tgt Ion: 82 Resp: 1121116

Ion Ratio Lower Upper

82 100

128 46.7 37.4 56.2

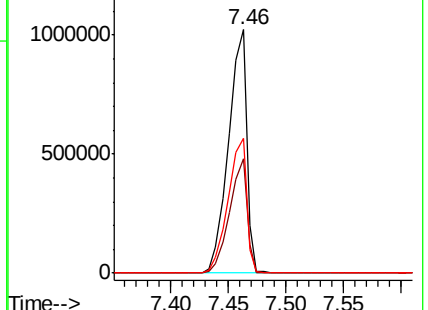
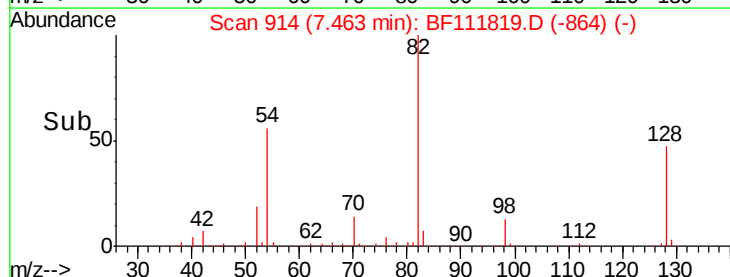
54 55.6 47.6 71.4

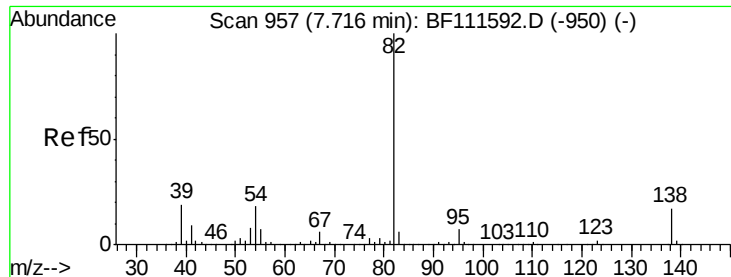


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 46.431 ng

RT: 7.46 min Scan# 914

Delta R.T. -0.26 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

Instrument :

BNA\_F

ClientSampleId :

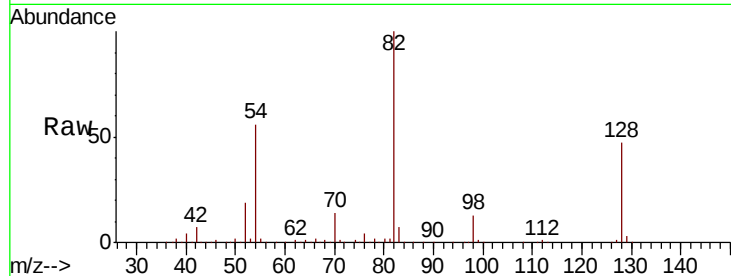
Tot Ion: 82 Resp: 1115882

Ion Ratio Lower Upper

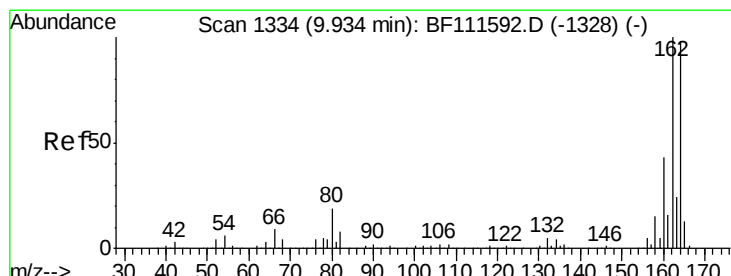
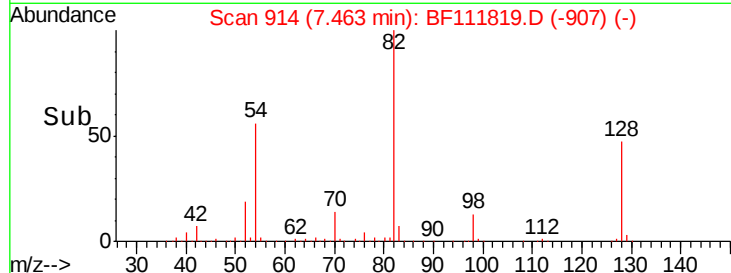
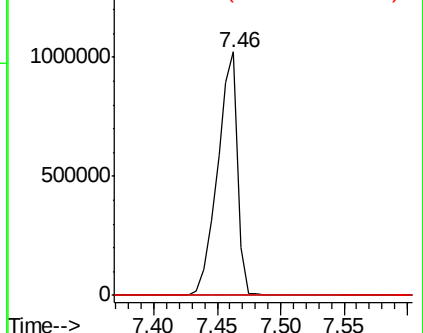
82 100

95 0.0 5.4 8.2#

138 0.0 15.1 22.7#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

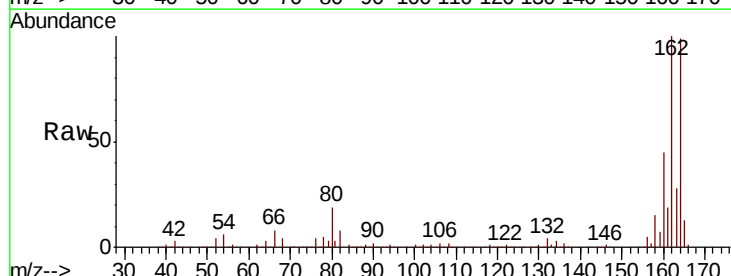
Tgt Ion:164 Resp: 569291

Ion Ratio Lower Upper

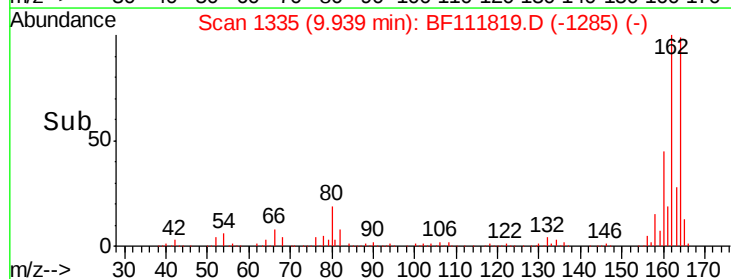
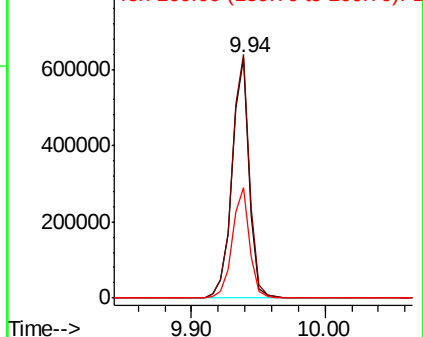
164 100

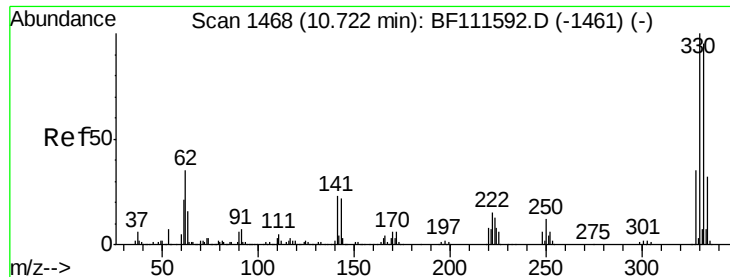
162 101.4 81.4 122.0

160 45.8 35.7 53.5



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

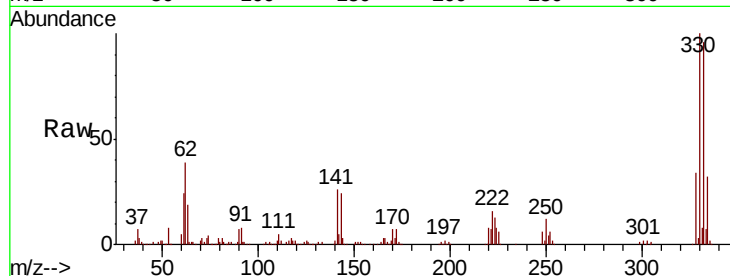




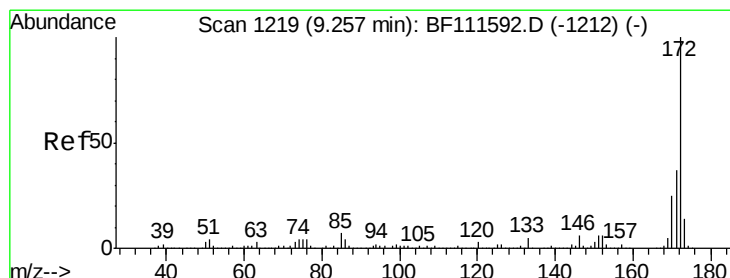
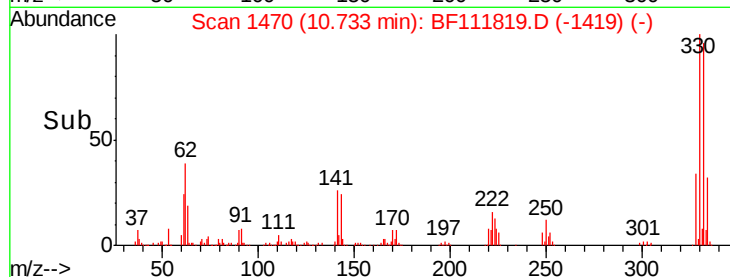
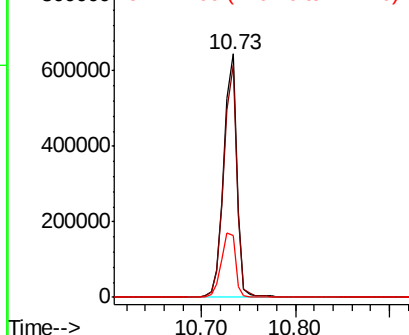
#42  
 2,4,6-Tribromophenol  
 Concen: 94.437 ng  
 RT: 10.73 min Scan# 1470  
 Delta R.T. -0.00 min  
 Lab File: BF111819.D  
 Acq: 3 Jan 2019 14:24

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 635238  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 76.0 114.0  
 141 29.0 31.0 46.6#

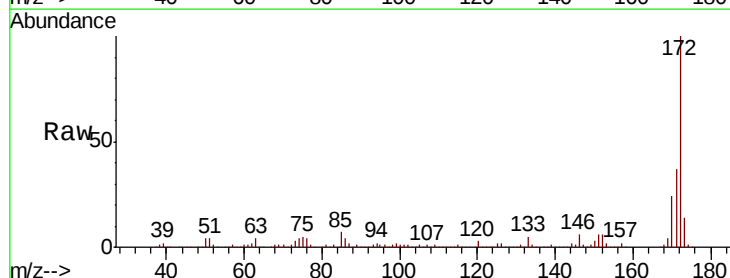


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

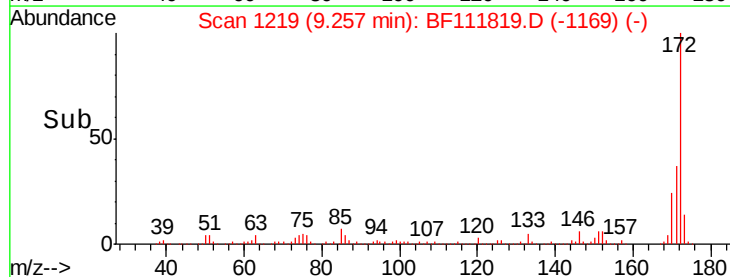
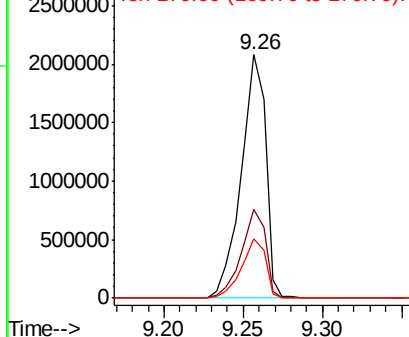


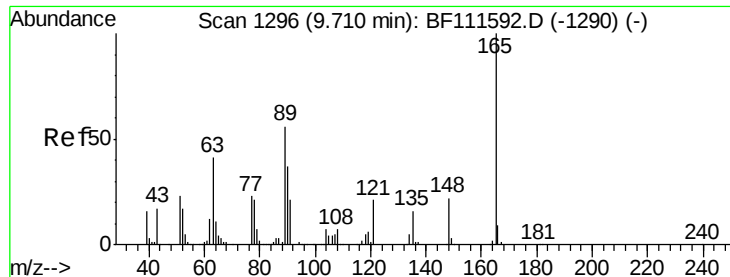
#45  
 2-Fluorobiphenyl  
 Concen: 57.109 ng  
 RT: 9.26 min Scan# 1219  
 Delta R.T. -0.01 min  
 Lab File: BF111819.D  
 Acq: 3 Jan 2019 14:24

Tgt Ion:172 Resp: 2230526  
 Ion Ratio Lower Upper  
 172 100  
 171 36.7 33.0 49.4  
 170 24.3 22.3 33.5



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





#51

2,6-Dinitrotoluene

Concen: 9.080 ng

RT: 9.94 min Scan# 1335

Delta R.T. 0.22 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

Instrument :

BNA\_F

ClientSampled :

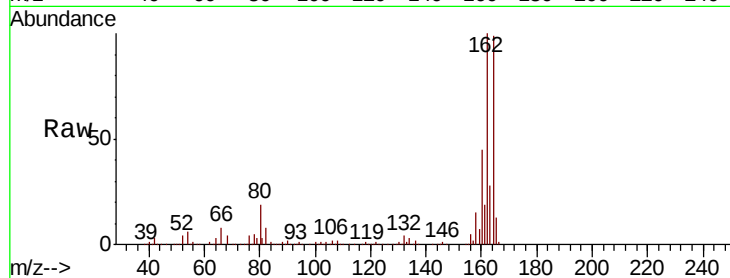
Tot Ion:165 Resp: 75373

Ion Ratio Lower Upper

165 100

63 1.6 40.5 60.7#

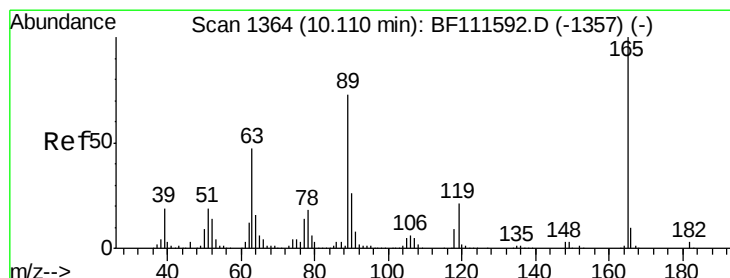
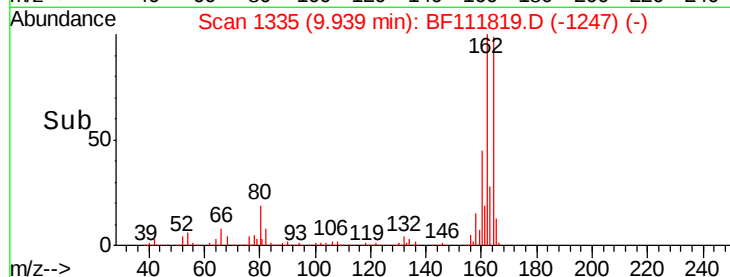
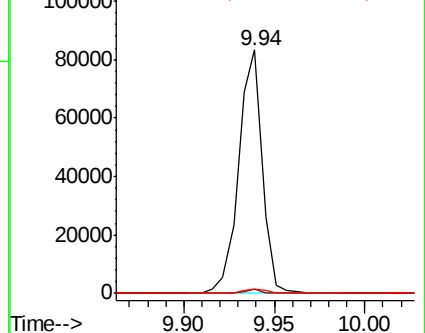
89 1.7 40.0 60.0#



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



#57

2,4-Dinitrotoluene

Concen: 7.555 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.18 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

Tgt Ion:165 Resp: 75373

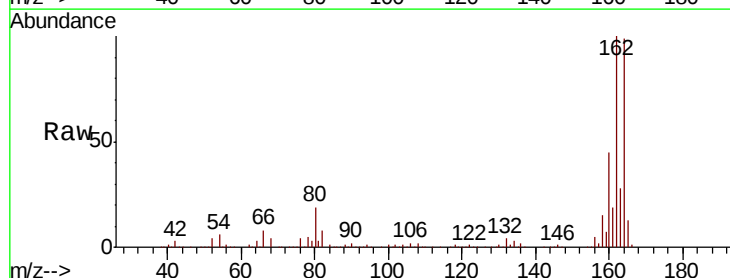
Ion Ratio Lower Upper

165 100

63 1.6 34.6 52.0#

89 1.7 56.2 84.4#

182 0.0 1.8 2.6#

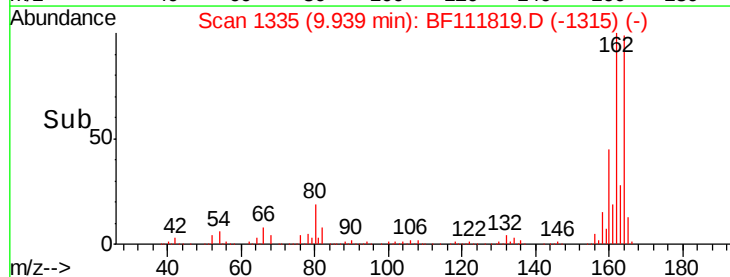
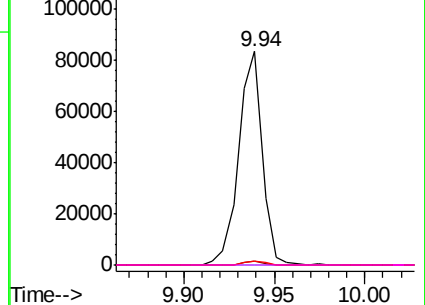


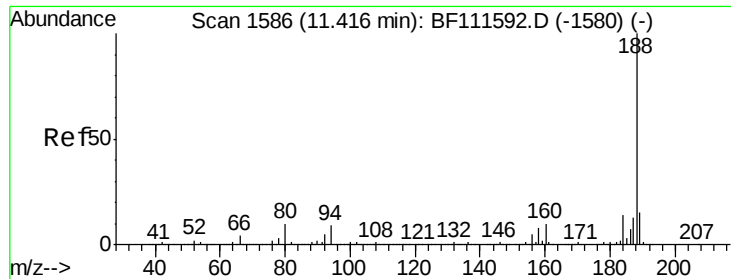
Abundance Ion 165.00 (164.70 to 165.70): E

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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.42 min Scan# 1587

Delta R.T. -0.01 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

Instrument :

BNA\_F

ClientSampled :

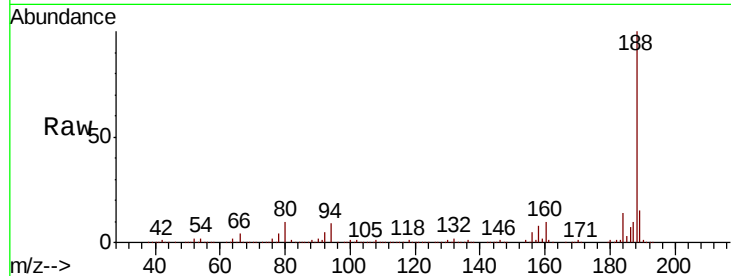
Tot Ion:188 Resp: 831586

Ion Ratio Lower Upper

188 100

94 9.4 9.6 14.4#

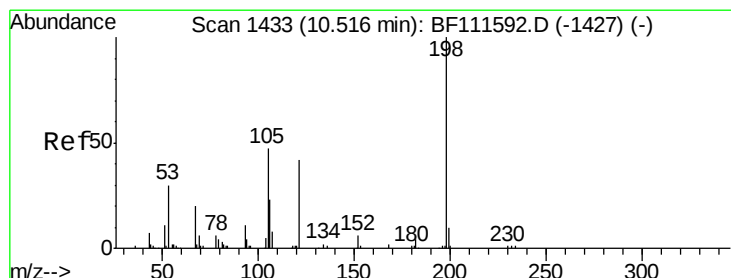
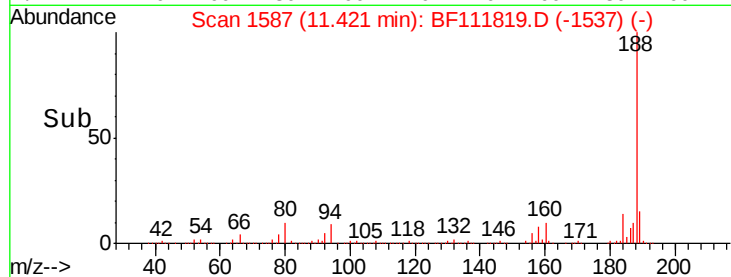
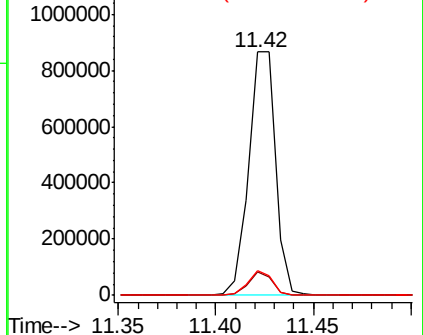
80 10.3 9.8 14.6



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



#65

4,6-Dinitro-2-methylphenol

Concen: 6.947 ng

RT: 10.73 min Scan# 1470

Delta R.T. 0.20 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

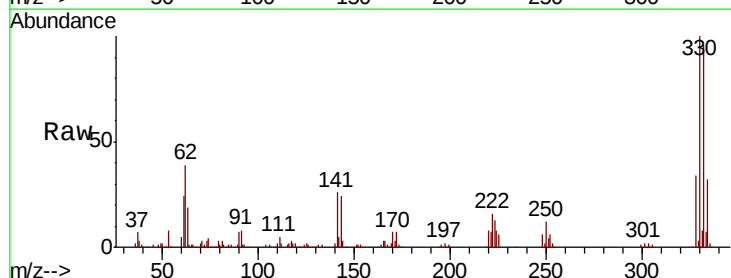
Tgt Ion:198 Resp: 1014

Ion Ratio Lower Upper

198 100

51 206.5 48.0 88.0#

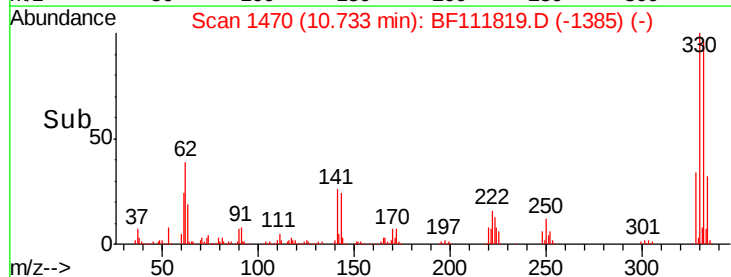
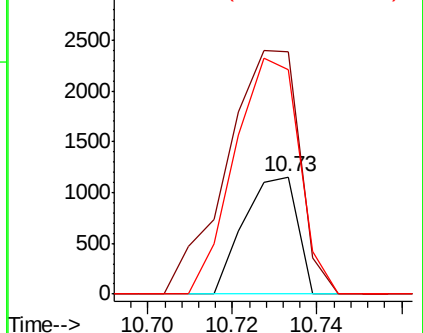
105 191.6 34.0 74.0#

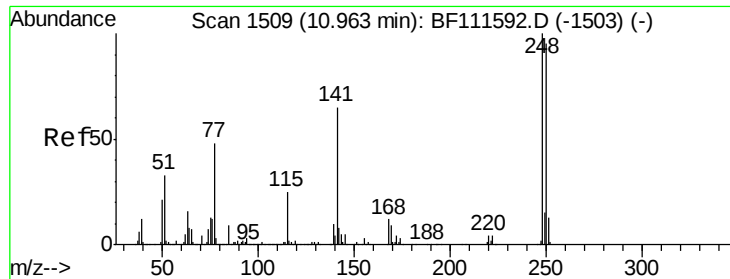


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

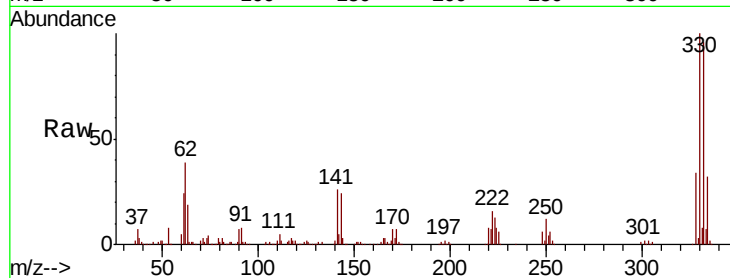




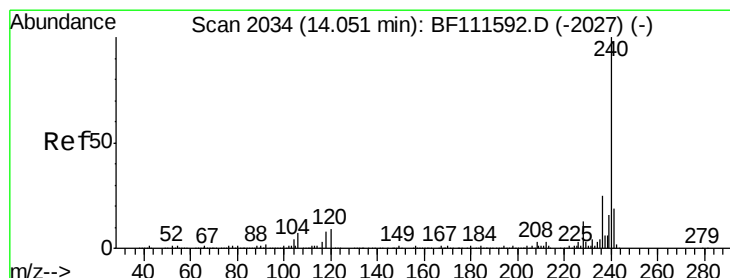
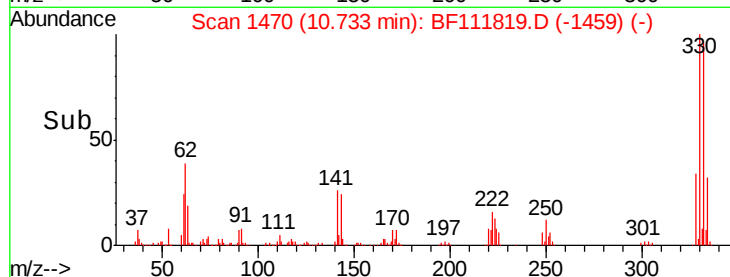
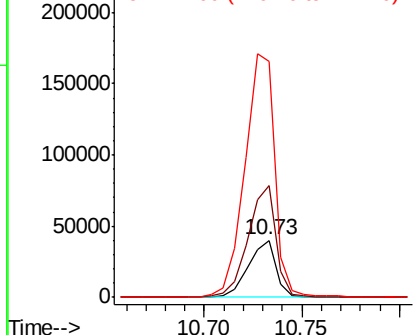
#67  
4-Bromophenyl-phenylether  
Concen: 3.814 ng  
RT: 10.73 min Scan# 1470  
Delta R.T. -0.24 min  
Lab File: BF111819.D  
Acq: 3 Jan 2019 14:24

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 39338  
Ion Ratio Lower Upper  
248 100  
250 194.2 77.0 115.4#  
141 411.5 63.0 94.6#

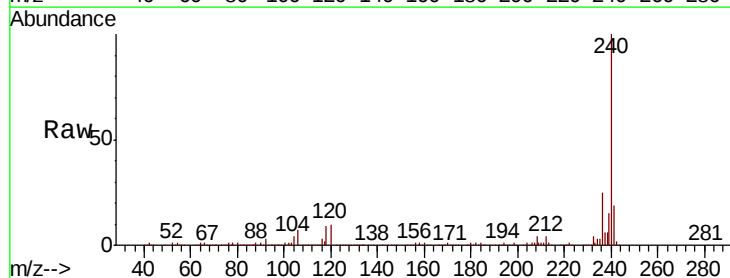


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

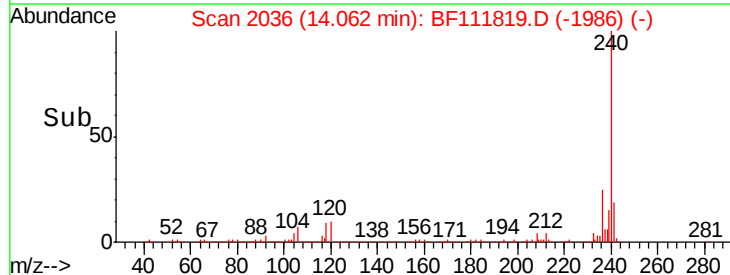
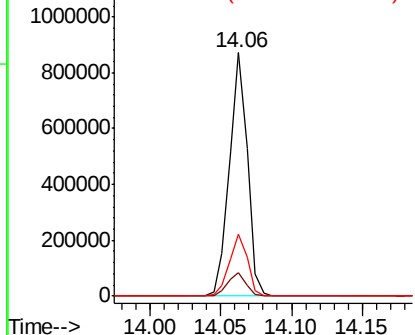


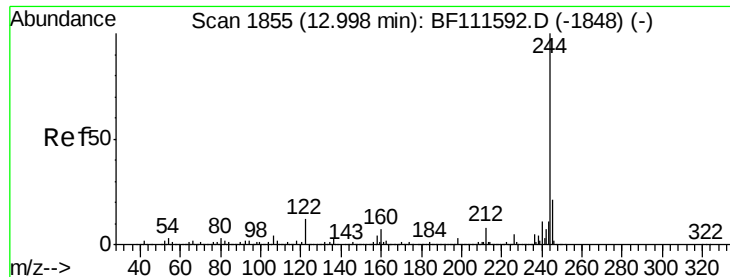
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2036  
Delta R.T. -0.01 min  
Lab File: BF111819.D  
Acq: 3 Jan 2019 14:24

Tgt Ion:240 Resp: 771647  
Ion Ratio Lower Upper  
240 100  
120 9.8 12.2 18.2#  
236 25.2 20.2 30.2



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





#79

Terphenyl-d14

Concen: 66.928 ng

RT: 13.02 min Scan# 1858

Delta R.T. 0.01 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

Instrument :

BNA\_F

ClientSampleId :

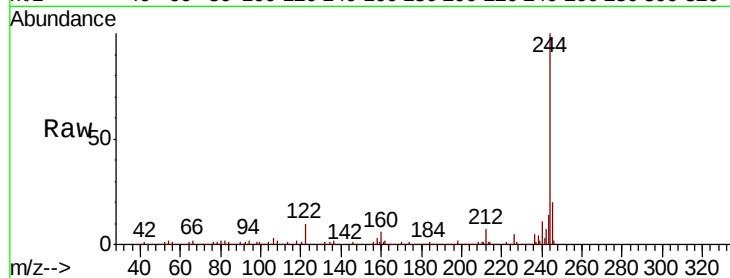
Tot Ion:244 Resp: 2723294

Ion Ratio Lower Upper

244 100

212 7.1 5.7 8.5

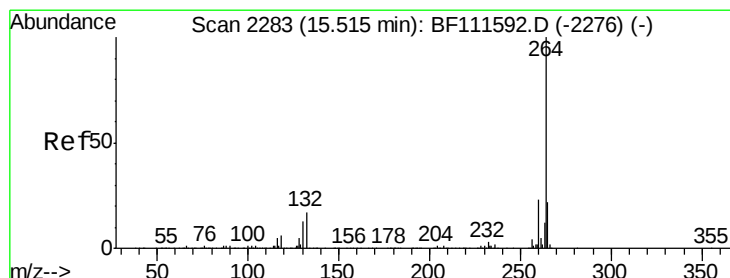
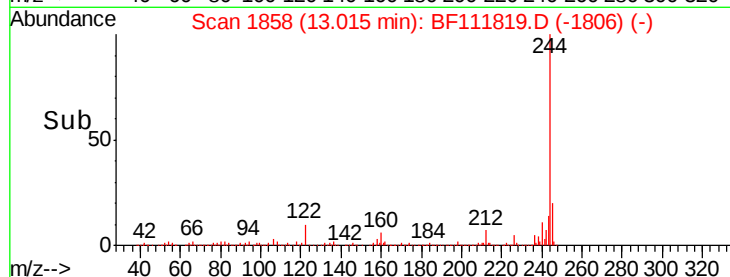
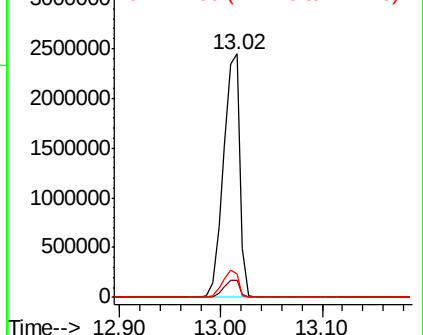
122 9.6 13.1 19.7#



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.55 min Scan# 2289

Delta R.T. -0.00 min

Lab File: BF111819.D

Acq: 3 Jan 2019 14:24

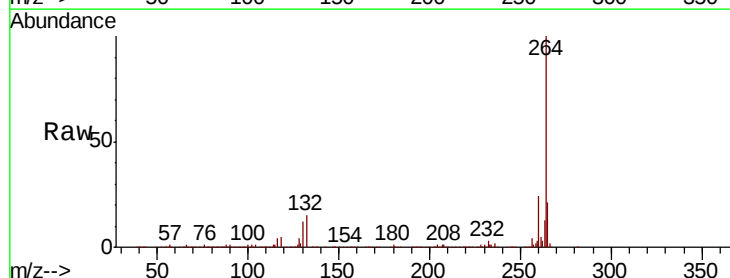
Tgt Ion:264 Resp: 670997

Ion Ratio Lower Upper

264 100

260 23.7 18.3 27.5

265 21.1 17.7 26.5



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

