

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010419\  
 Data File : BF111851.D  
 Acq On : 4 Jan 2019 18:14  
 Operator : JU/SJ  
 Sample : K1018-02  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 04 23:30:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 19 17:39:39 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 177350   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 656721   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.93  | 164  | 307070   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.42 | 188  | 469075   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.06 | 240  | 389671   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.54 | 264  | 392552   | 20.00 | ng    | 0.03     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.53  | 112  | 575673   | 55.33  | ng    | 0.01     |
| 7) Phenol-d6                | 6.53  | 99   | 448123   | 33.84  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.46  | 82   | 1057525  | 93.73  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330  | 438972   | 120.99 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 1903088  | 90.33  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.00 | 244  | 1614999  | 78.60  | ng    | 0.00     |

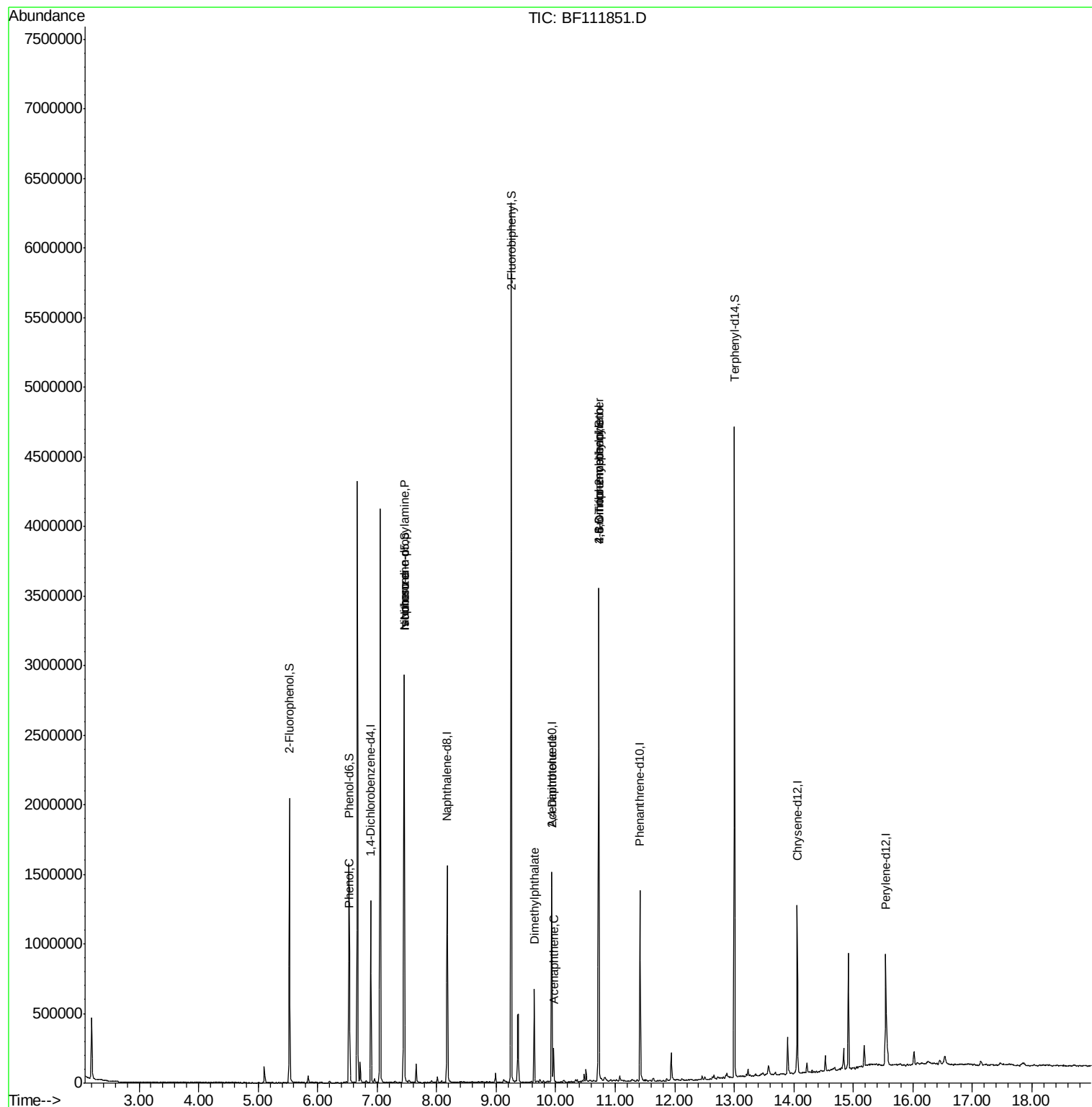
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 6.54  | 94   | 57368    | 3.840  | ng    | 97     |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 143778   | 16.350 | ng    | # 75   |
| 25) Isophorone                 | 7.46  | 82   | 1057516  | 52.798 | ng    | # 64   |
| 50) Dimethylphthalate          | 9.64  | 163  | 248431   | 11.063 | ng    | 97     |
| 52) Acenaphthene               | 9.96  | 154  | 47838    | 2.587  | ng    | 96     |
| 57) 2,4-Dinitrotoluene         | 9.93  | 165  | 39829    | 7.401  | ng    | # 24   |
| 65) 4,6-Dinitro-2-methylphenol | 10.72 | 198  | 804      | 7.050  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.72 | 248  | 26621    | 4.576  | ng    | # 1    |

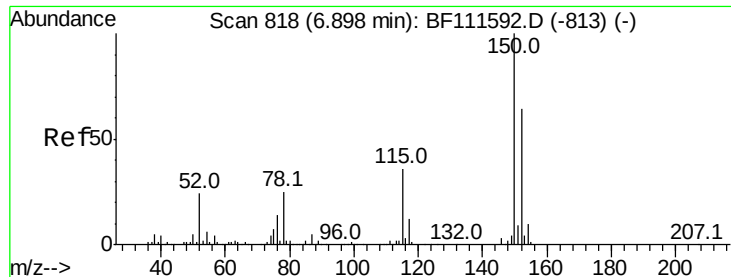
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010419\  
Data File : BF111851.D  
Acq On : 4 Jan 2019 18:14  
Operator : JU/SJ  
Sample : K1018-02  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jan 04 23:30:36 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 19 17:39:39 2018  
Response via : Initial Calibration



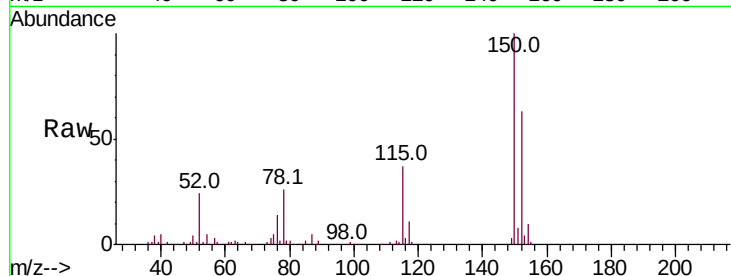


#1

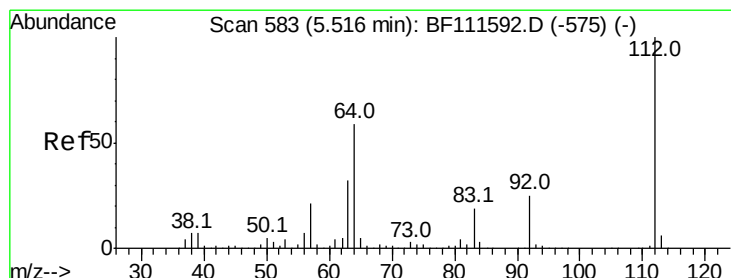
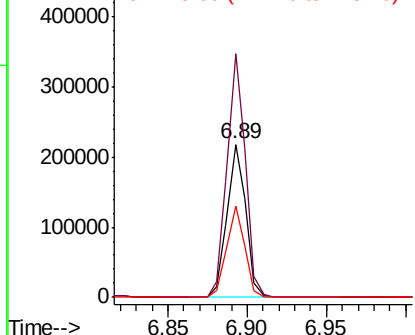
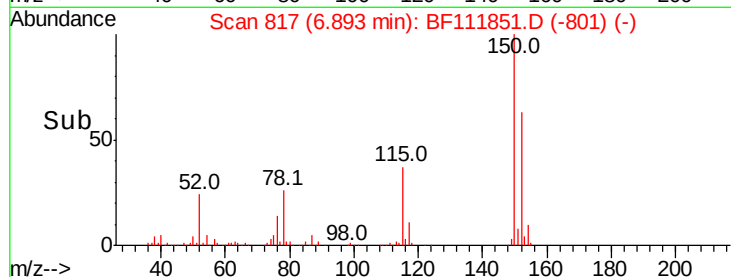
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 817  
Delta R.T. -0.01 min  
Lab File: BF111851.D  
Acq: 4 Jan 2019 18:14

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 177350  
Ion Ratio Lower Upper  
152 100  
150 158.9 126.6 189.8  
115 59.5 50.7 76.1



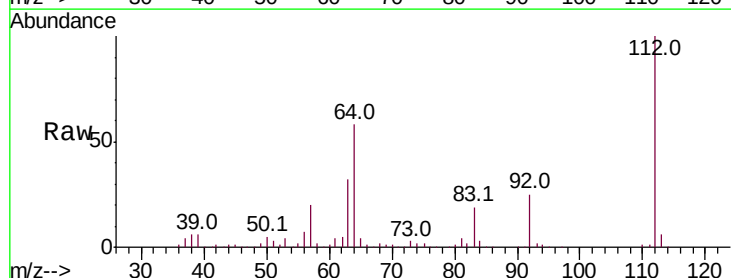
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



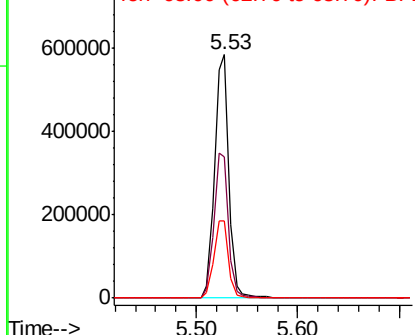
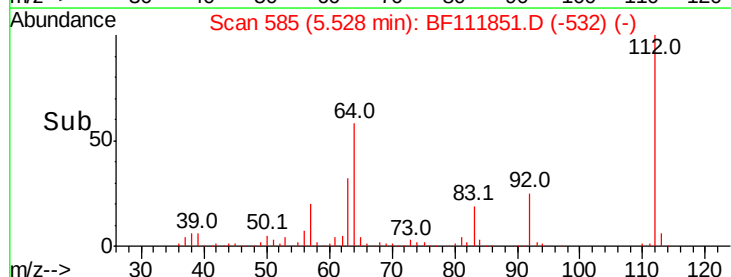
#5

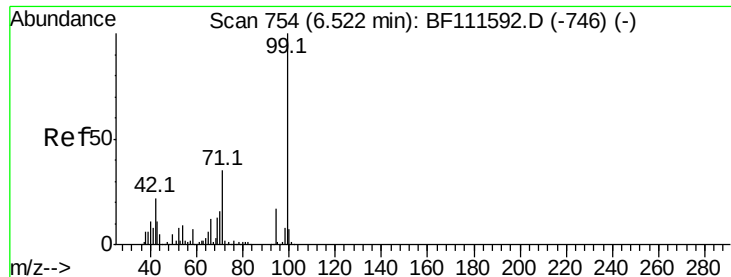
2-Fluorophenol  
Concen: 55.329 ng  
RT: 5.53 min Scan# 585  
Delta R.T. 0.01 min  
Lab File: BF111851.D  
Acq: 4 Jan 2019 18:14

Tgt Ion:112 Resp: 575673  
Ion Ratio Lower Upper  
112 100  
64 58.1 51.8 77.6  
63 31.6 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: 33.843 ng

RT: 6.53 min Scan# 755

Delta R.T. 0.01 min

Lab File: BF111851.D

Acq: 4 Jan 2019 18:14

Instrument :

BNA\_G

ClientSampleId :

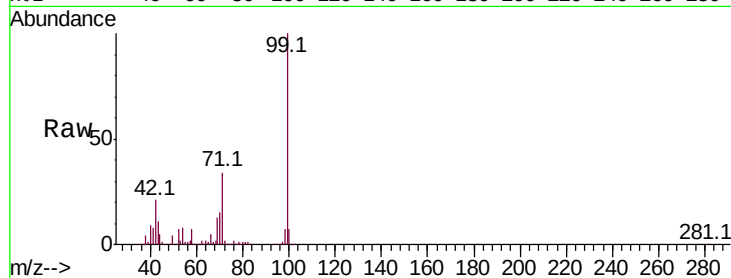
Tot Ion: 99 Resp: 448123

Ion Ratio Lower Upper

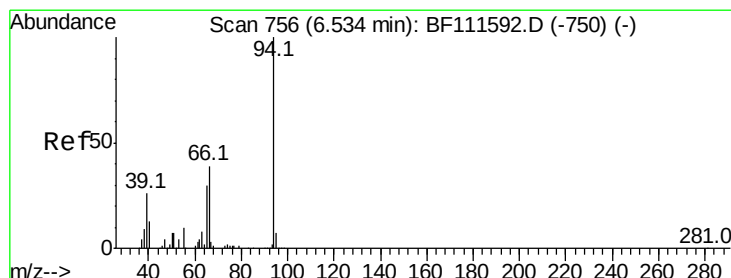
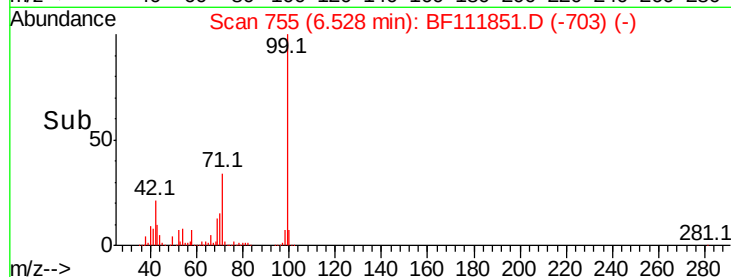
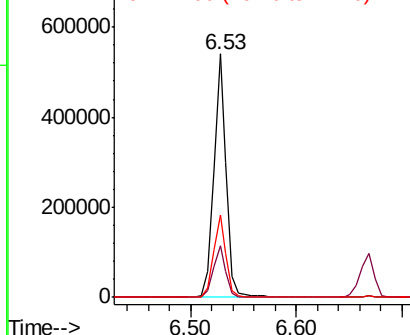
99 100

42 21.3 17.4 26.0

71 33.8 26.1 39.1



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



#10

Phenol

Concen: 3.840 ng

RT: 6.54 min Scan# 757

Delta R.T. 0.01 min

Lab File: BF111851.D

Acq: 4 Jan 2019 18:14

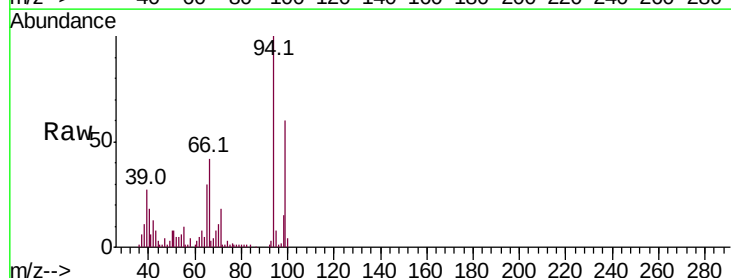
Tgt Ion: 94 Resp: 57368

Ion Ratio Lower Upper

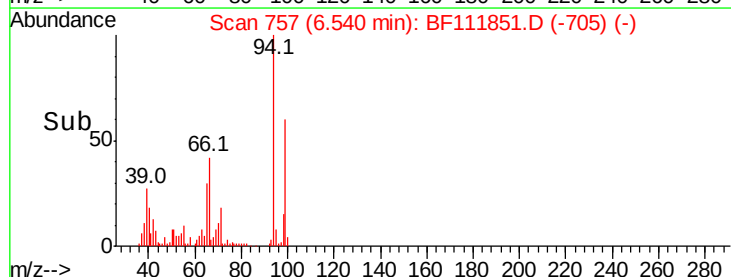
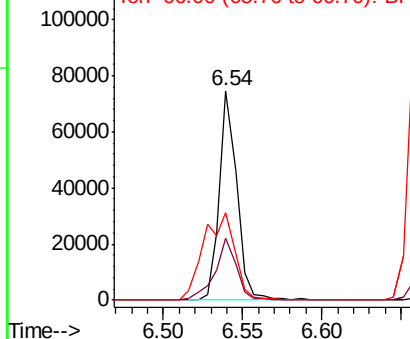
94 100

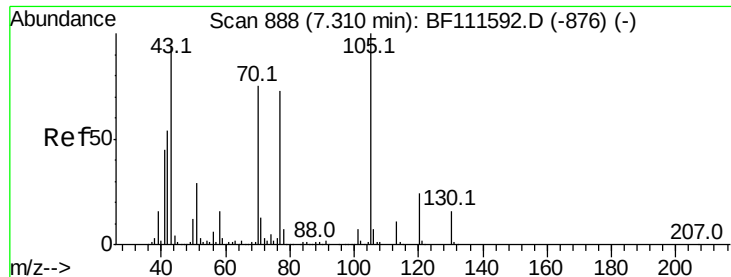
65 29.6 11.7 51.7

66 42.0 21.0 61.0



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 16.350 ng

RT: 7.46 min Scan# 913

Delta R.T. 0.15 min

Lab File: BF111851.D

Acq: 4 Jan 2019 18:14

Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 70 Resp: 143778

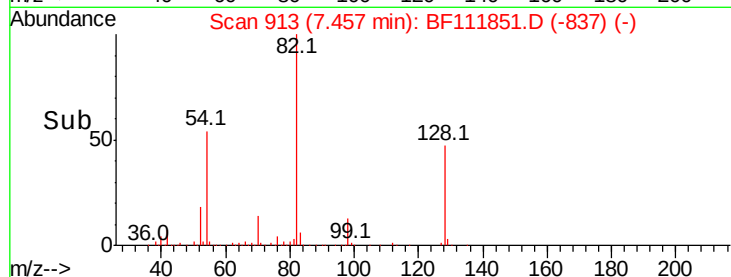
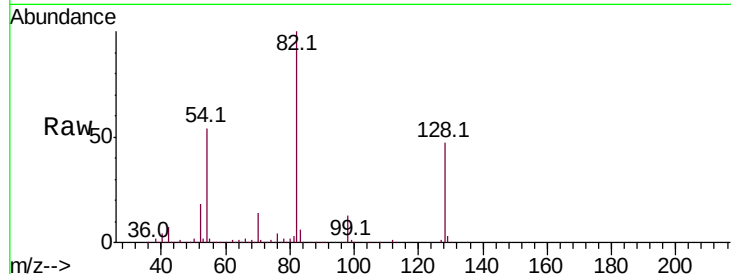
Ion Ratio Lower Upper

70 100

42 51.3 53.2 79.8#

101 0.0 8.2 12.4#

130 2.3 18.1 27.1#

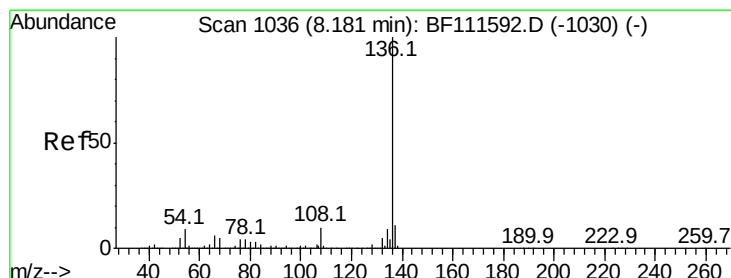
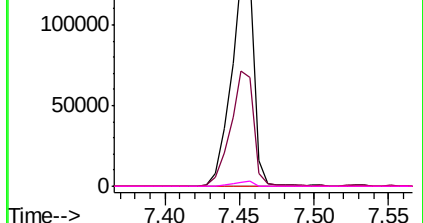


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF111851.D

Acq: 4 Jan 2019 18:14

Tgt Ion: 136 Resp: 656721

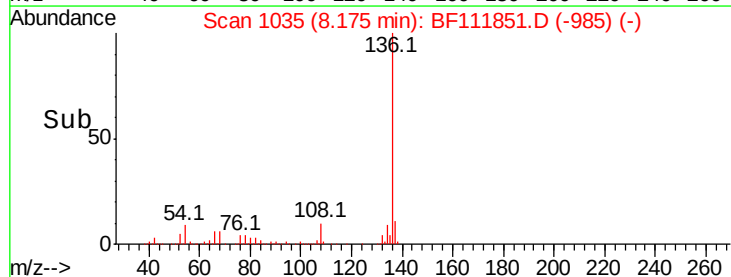
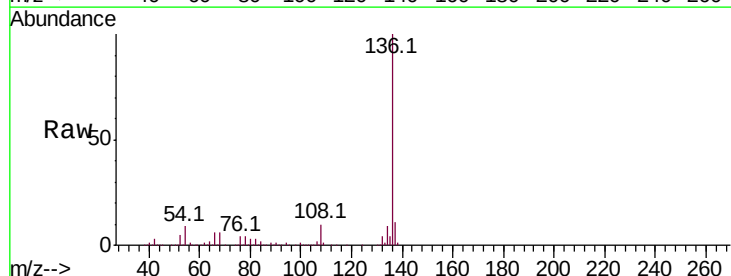
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 9.2 7.7 11.5

68 5.6 4.9 7.3

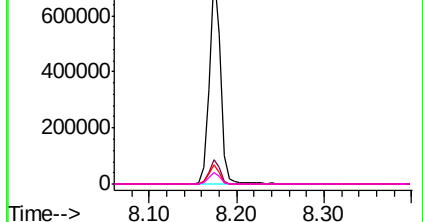


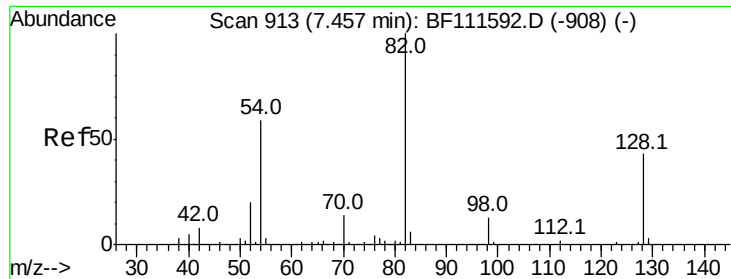
Abundance Ion 136.00 (135.70 to 136.70): BF1

Ion 137.00 (136.70 to 137.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

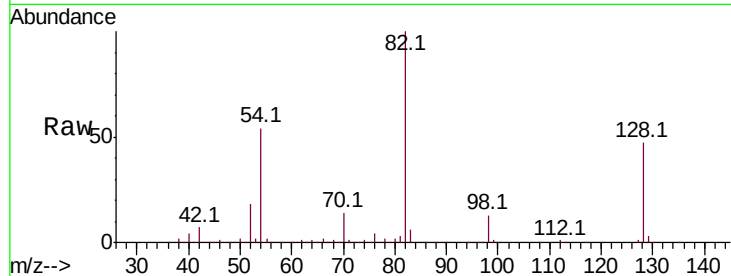




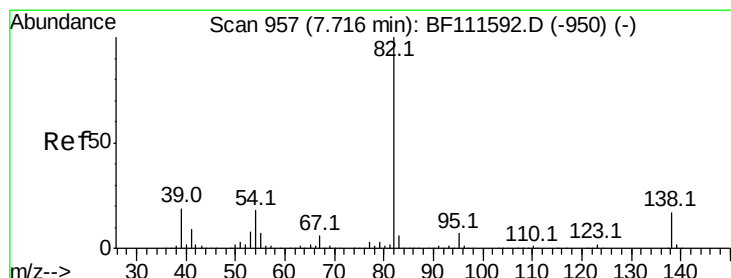
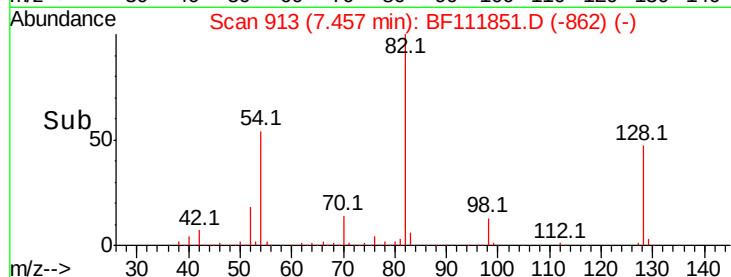
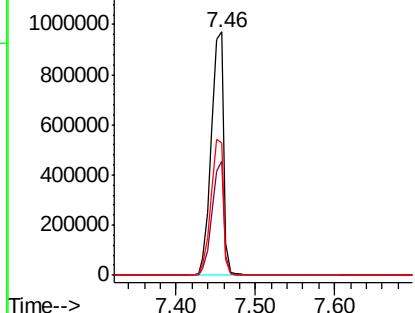
#23  
 Nitrobenzene-d5  
 Concen: 93.733 ng  
 RT: 7.46 min Scan# 913  
 Delta R.T. -0.00 min  
 Lab File: BF111851.D  
 Acq: 4 Jan 2019 18:14

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion: 82 Resp: 1057525  
 Ion Ratio Lower Upper  
 82 100  
 128 46.7 37.4 56.2  
 54 54.5 47.6 71.4

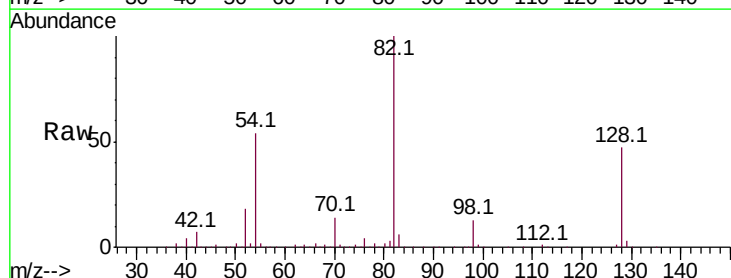


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

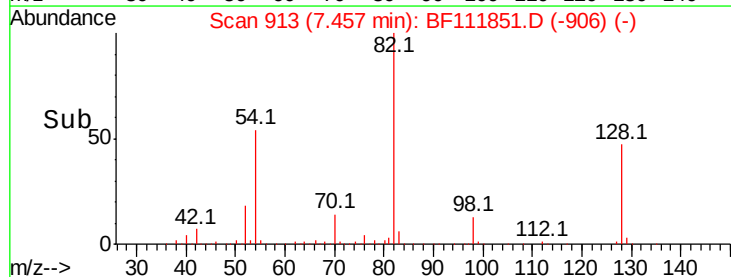
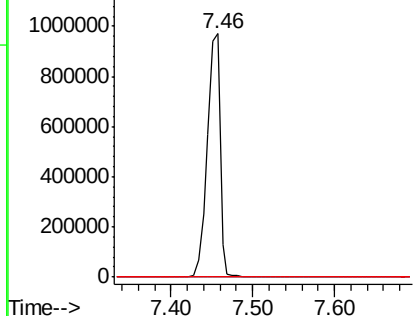


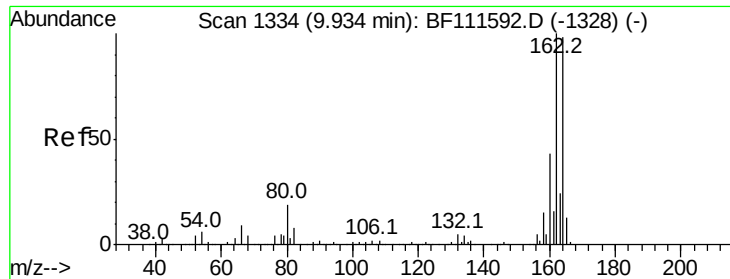
#25  
 Isophorone  
 Concen: 52.798 ng  
 RT: 7.46 min Scan# 913  
 Delta R.T. -0.26 min  
 Lab File: BF111851.D  
 Acq: 4 Jan 2019 18:14

Tgt Ion: 82 Resp: 1057516  
 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): BF1

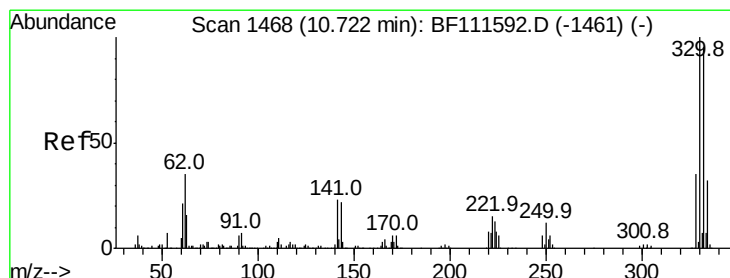
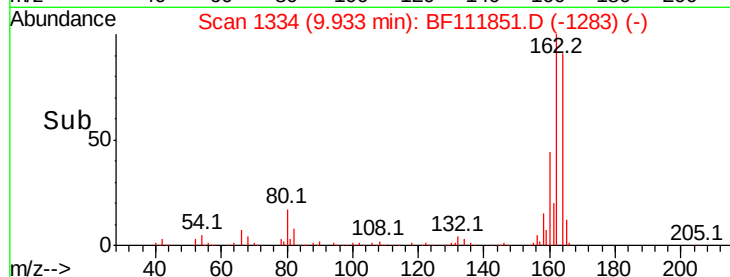
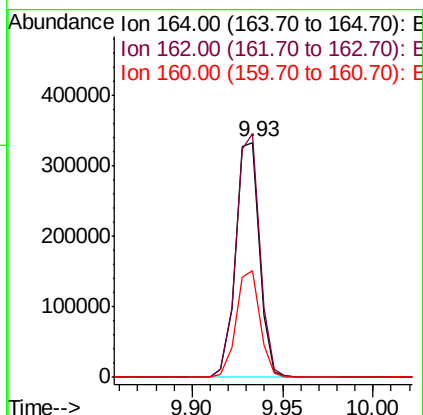
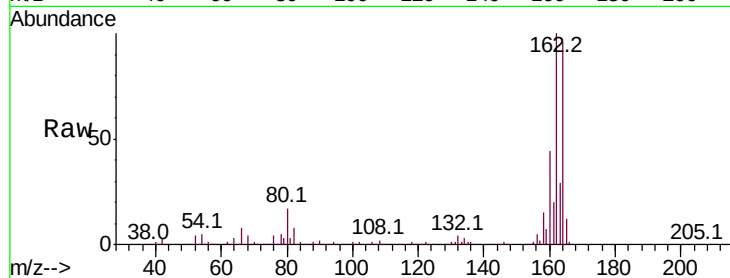




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.93 min Scan# 1334  
 Delta R.T. -0.00 min  
 Lab File: BF111851.D  
 Acq: 4 Jan 2019 18:14

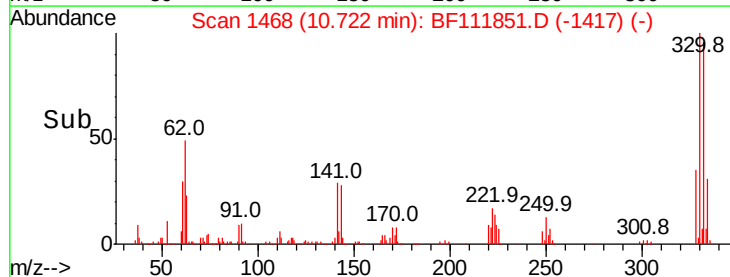
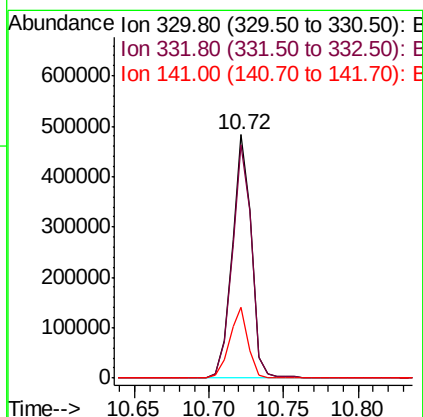
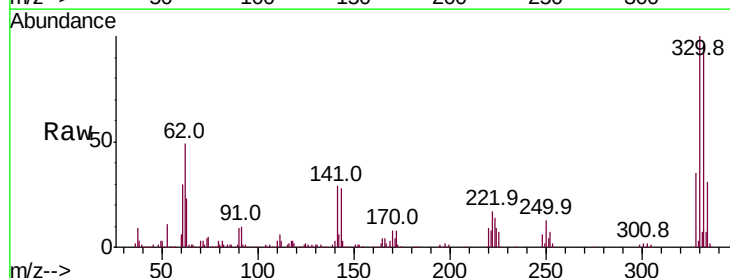
Instrument :  
 BNA\_G  
 ClientSampleId :

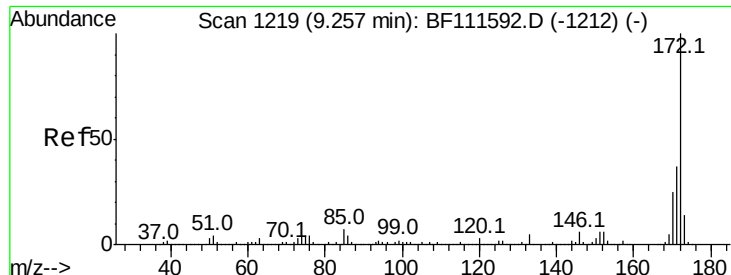
Tot Ion:164 Resp: 307070  
 Ion Ratio Lower Upper  
 164 100  
 162 103.7 81.4 122.0  
 160 45.5 35.7 53.5



#42  
 2,4,6-Tribromophenol  
 Concen: 120.987 ng  
 RT: 10.72 min Scan# 1468  
 Delta R.T. -0.00 min  
 Lab File: BF111851.D  
 Acq: 4 Jan 2019 18:14

Tgt Ion:330 Resp: 438972  
 Ion Ratio Lower Upper  
 330 100  
 332 97.0 76.0 114.0  
 141 28.4 31.0 46.6#



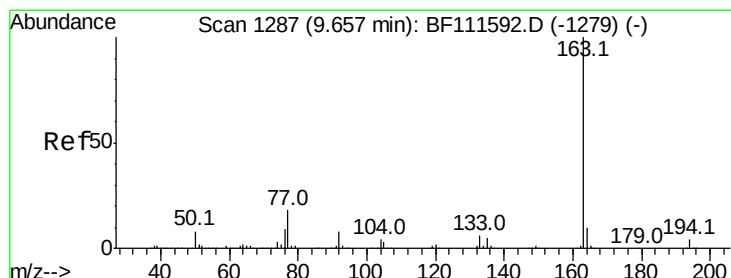
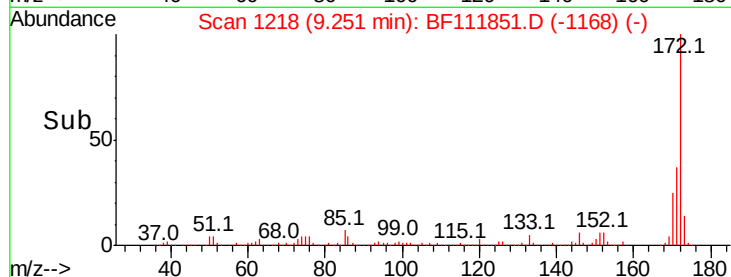
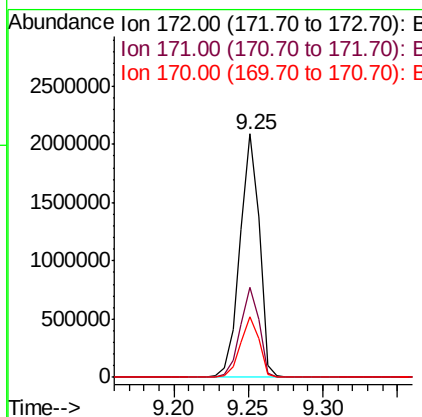
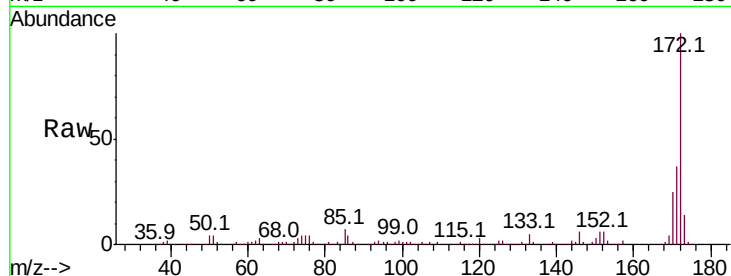


#45  
 2-Fluorobiphenyl  
 Concen: 90.334 ng  
 RT: 9.25 min Scan# 1218  
 Delta R.T. -0.01 min  
 Lab File: BF111851.D  
 Acq: 4 Jan 2019 18:14

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:172 Resp: 1903088  

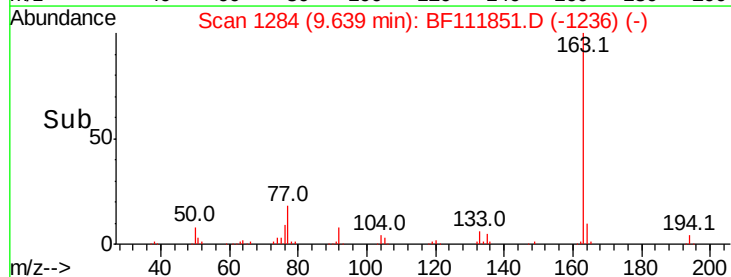
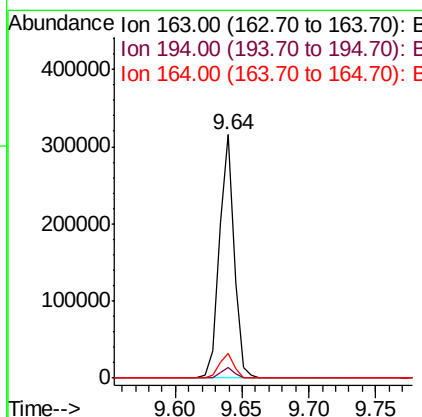
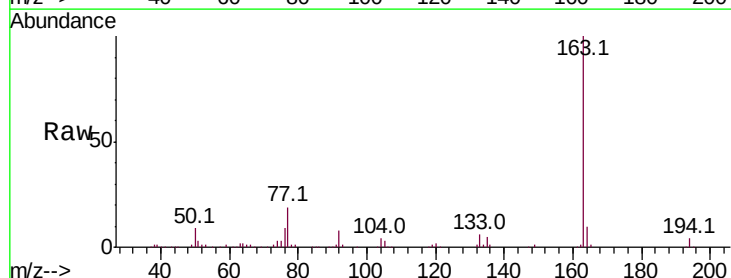
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.9  | 33.0  | 49.4  |
| 170 | 25.0  | 22.3  | 33.5  |



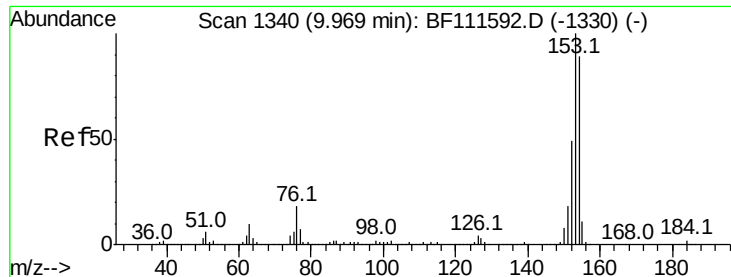
#50  
 Dimethylphthalate  
 Concen: 11.063 ng  
 RT: 9.64 min Scan# 1284  
 Delta R.T. -0.02 min  
 Lab File: BF111851.D  
 Acq: 4 Jan 2019 18:14

Tgt Ion:163 Resp: 248431  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 4.3   | 3.0   | 4.6   |
| 164 | 9.9   | 8.9   | 13.3  |







#52

Acenaphthene

Concen: 2.587 ng

RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BF111851.D

Acq: 4 Jan 2019 18:14

Instrument :

BNA\_G

ClientSampleId :

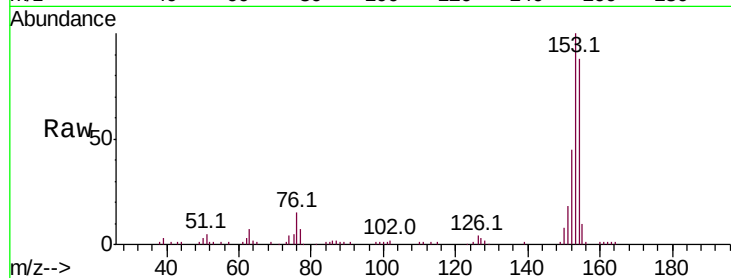
Tot Ion:154 Resp: 47838

Ion Ratio Lower Upper

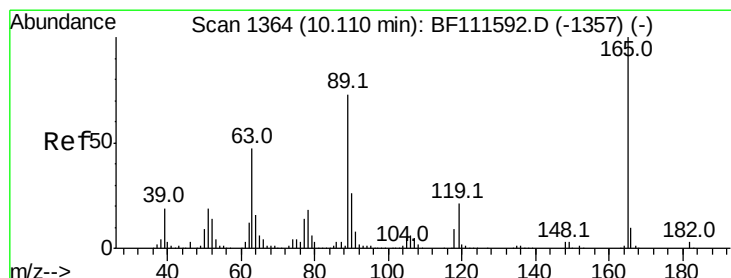
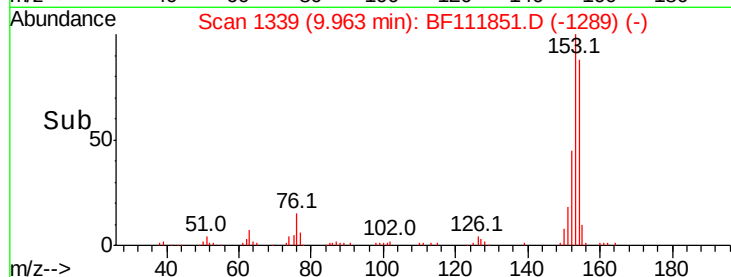
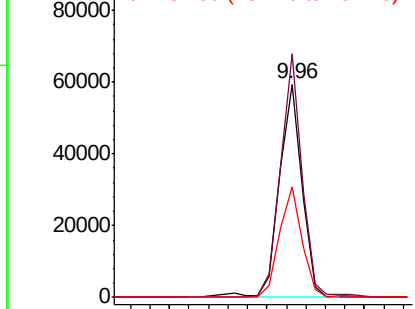
154 100

153 114.1 87.8 131.8

152 51.5 43.4 65.2



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



#57

2,4-Dinitrotoluene

Concen: 7.401 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.18 min

Lab File: BF111851.D

Acq: 4 Jan 2019 18:14

Tgt Ion:165 Resp: 39829

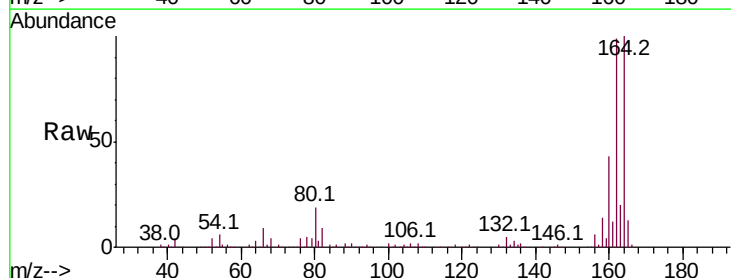
Ion Ratio Lower Upper

165 100

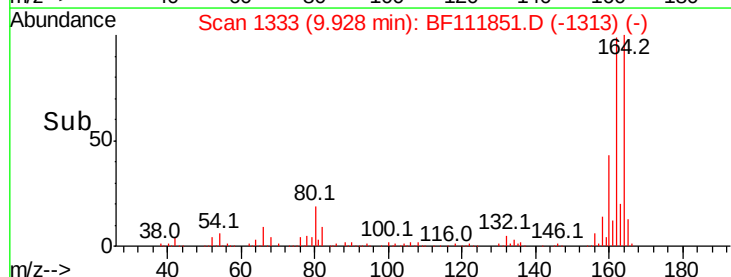
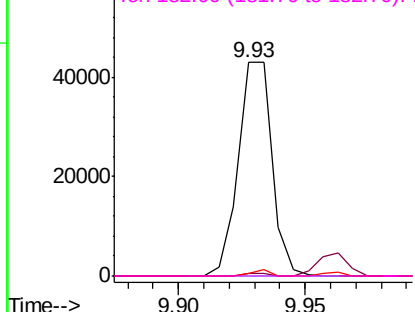
63 1.0 34.6 52.0#

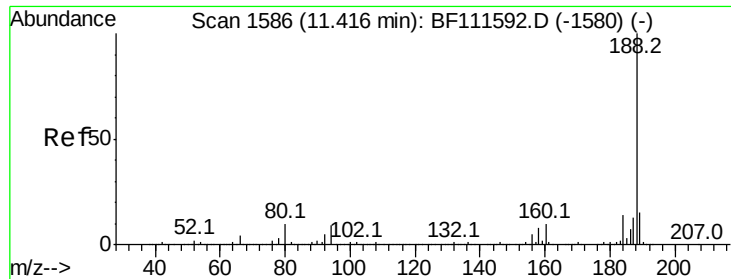
89 1.3 56.2 84.4#

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# 1586

Delta R.T. -0.00 min

Lab File: BF111851.D

Acq: 4 Jan 2019 18:14

Instrument :

BNA\_G

ClientSampleId :

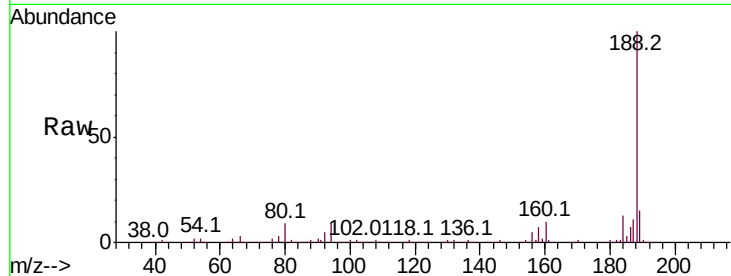
Tot Ion:188 Resp: 469075

Ion Ratio Lower Upper

188 100

94 8.7 9.6 14.4#

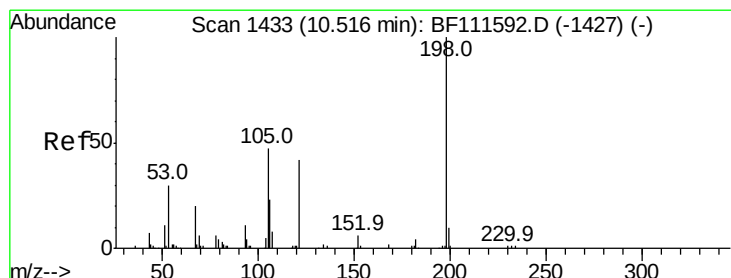
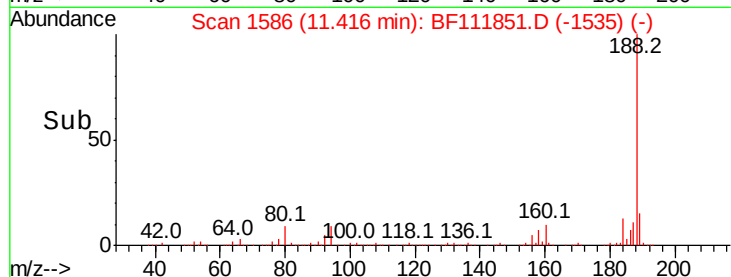
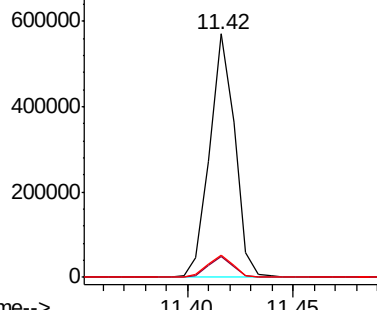
80 9.3 9.8 14.6#



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: 7.050 ng

RT: 10.72 min Scan# 1468

Delta R.T. 0.21 min

Lab File: BF111851.D

Acq: 4 Jan 2019 18:14

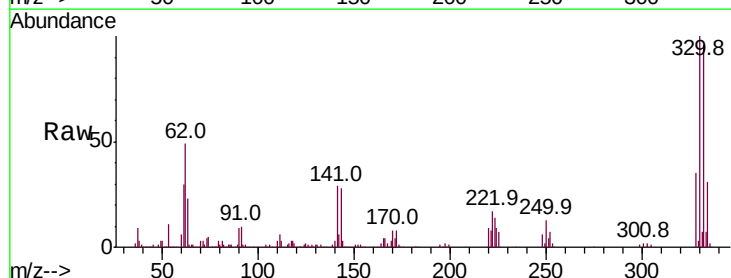
Tgt Ion:198 Resp: 804

Ion Ratio Lower Upper

198 100

51 204.9 48.0 88.0#

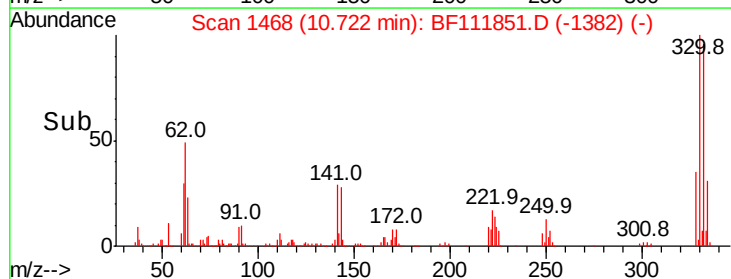
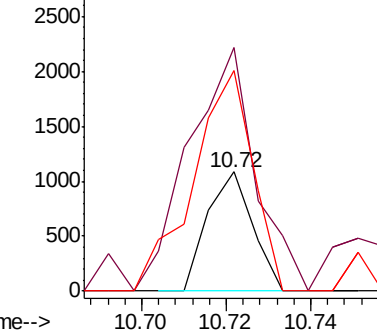
105 186.0 34.0 74.0#

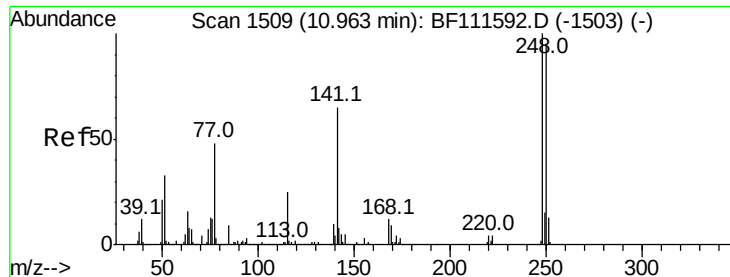


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E





#67

4-Bromophenyl-phenylether

Concen: 4.576 ng

RT: 10.72 min Scan# 1468

Delta R.T. -0.24 min

Lab File: BF111851.D

Acq: 4 Jan 2019 18:14

Instrument :

BNA\_G

ClientSampleId :

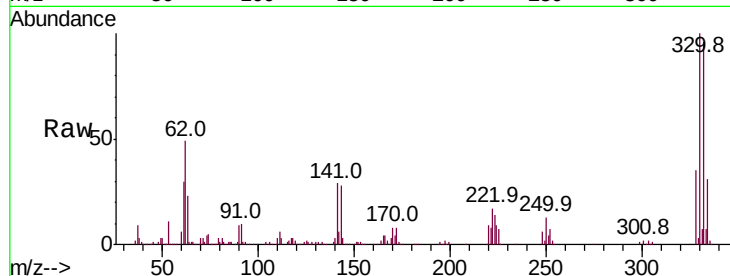
Tot Ion:248 Resp: 26621

Ion Ratio Lower Upper

248 100

250 200.5 77.0 115.4#

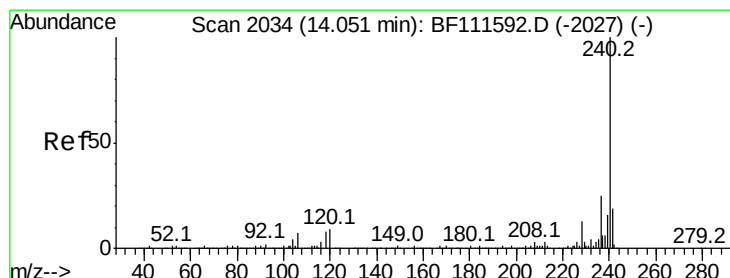
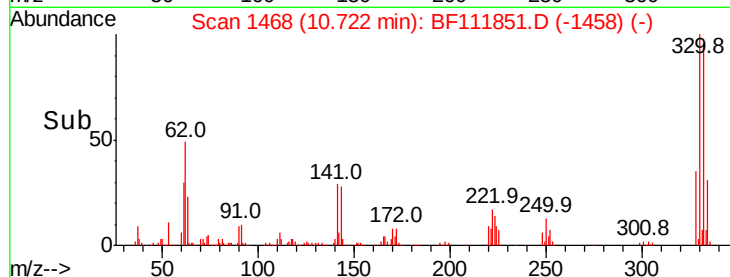
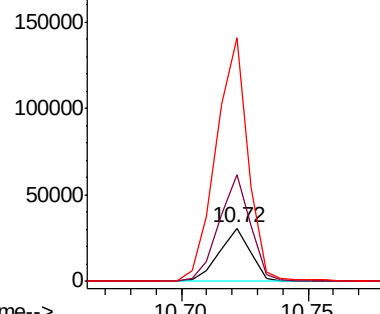
141 459.0 63.0 94.6#



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# 2035

Delta R.T. 0.01 min

Lab File: BF111851.D

Acq: 4 Jan 2019 18:14

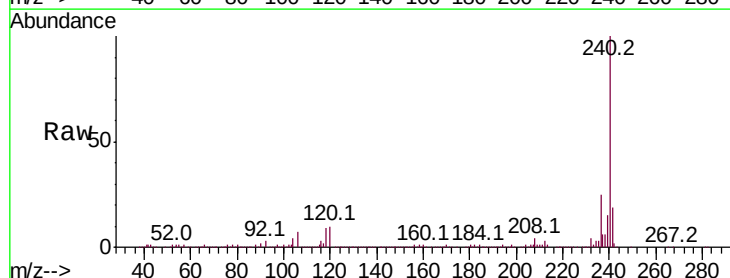
Tgt Ion:240 Resp: 389671

Ion Ratio Lower Upper

240 100

120 10.2 12.2 18.2#

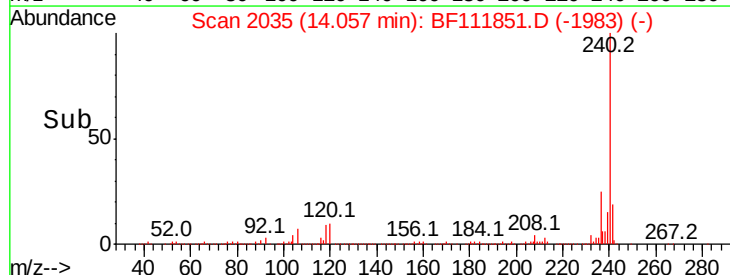
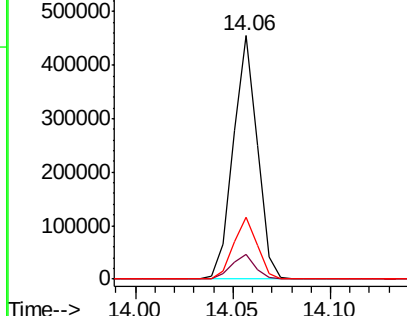
236 25.3 20.2 30.2

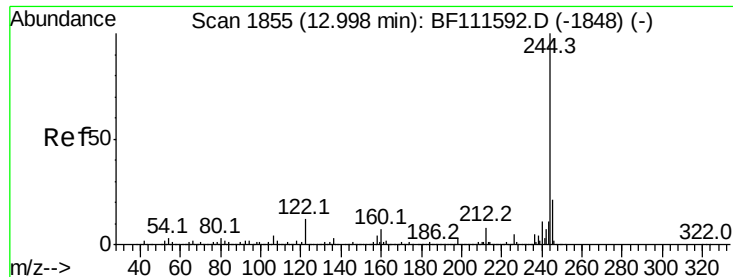


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

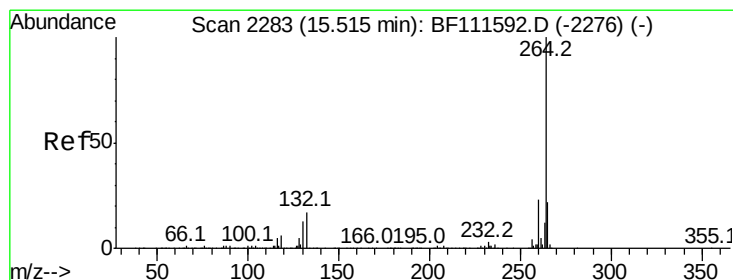
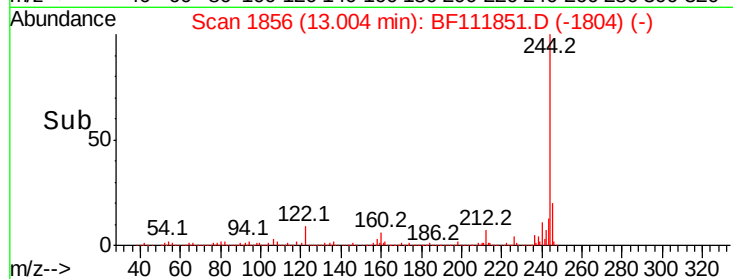
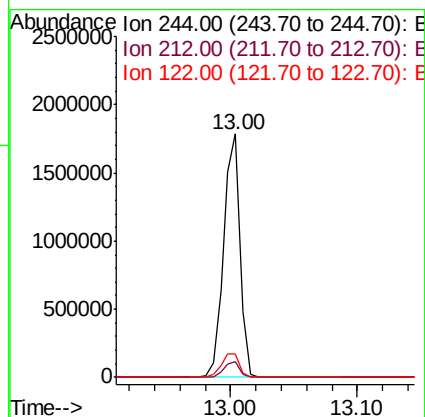
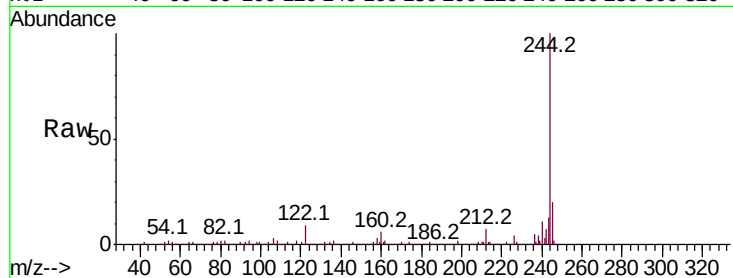




#79  
 Terphenyl-d14  
 Concen: 78.597 ng  
 RT: 13.00 min Scan# 1856  
 Delta R.T. 0.01 min  
 Lab File: BF111851.D  
 Acq: 4 Jan 2019 18:14

Instrument :  
 BNA\_G  
 ClientSampleID :

Tot Ion:244 Resp: 1614999  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 5.7 8.5  
 122 9.4 13.1 19.7#



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.54 min Scan# 2288  
 Delta R.T. 0.03 min  
 Lab File: BF111851.D  
 Acq: 4 Jan 2019 18:14

Tgt Ion:264 Resp: 392552  
 Ion Ratio Lower Upper  
 264 100  
 260 23.1 18.3 27.5  
 265 20.8 17.7 26.5

