

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031020\  
 Data File : BF119314.D  
 Acq On : 10 Mar 2020 13:40  
 Operator : CG/JU  
 Sample : PB127381BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 11 01:37:39 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 06 23:38:46 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 114606   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.00  | 136  | 445045   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.76  | 164  | 259870   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.25 | 188  | 522946   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.89 | 240  | 354854   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.32 | 264  | 293461   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.37  | 112  | 928105   | 135.34 | ng    | 0.02     |
| 7) Phenol-d6                | 6.39  | 99   | 1136969  | 136.32 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 760285   | 90.20  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.56 | 330  | 431886   | 127.04 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.08  | 172  | 1538882  | 87.24  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.83 | 244  | 2073759  | 100.61 | ng    | 0.00     |

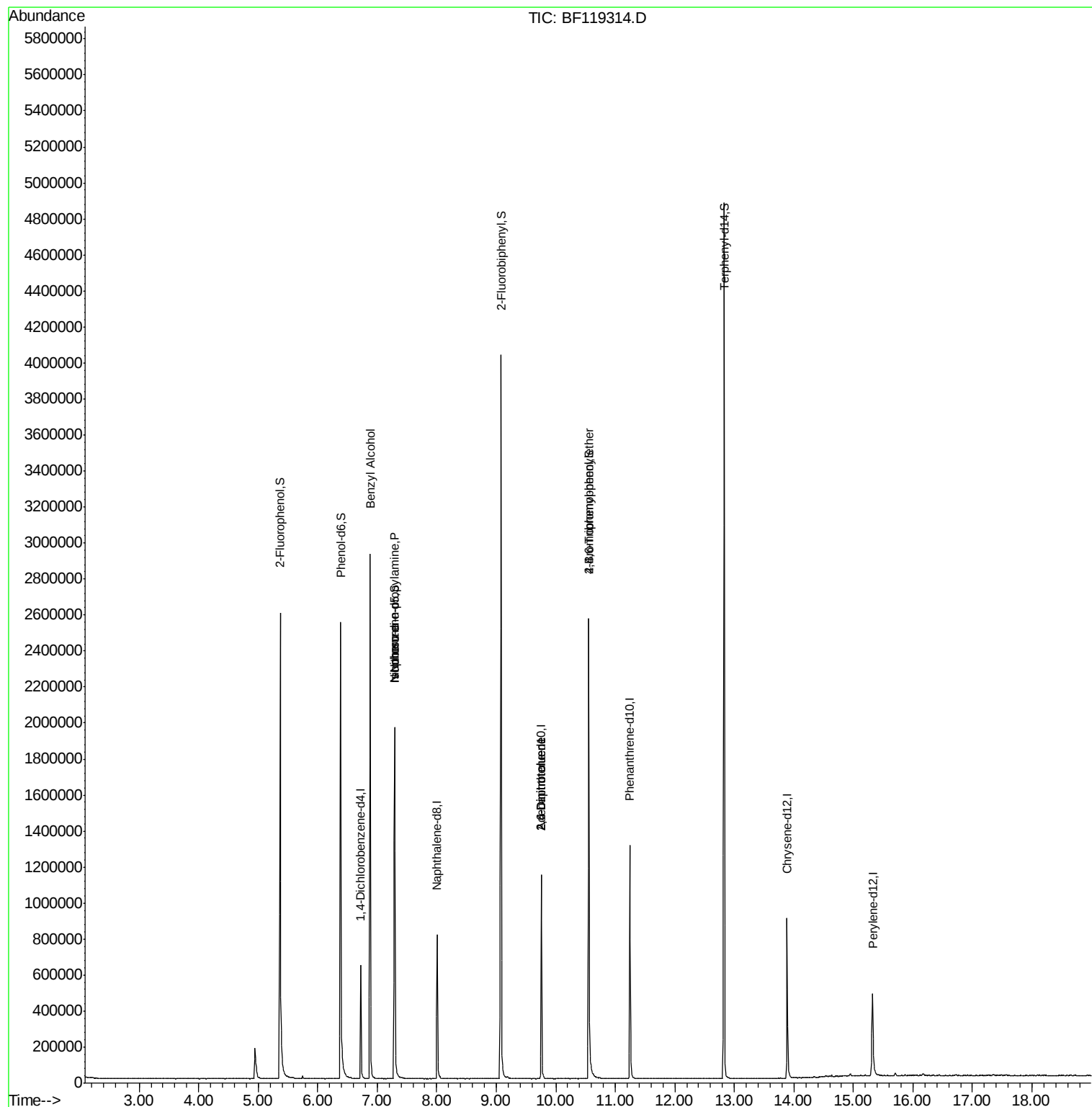
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 15) Benzyl Alcohol             | 6.88  | 79   | 13325    | 2.211  | ng    | # 48   |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 105087   | 21.623 | ng    | # 75   |
| 25) Isophorone                 | 7.29  | 82   | 760285   | 51.937 | ng    | # 63   |
| 51) 2,6-Dinitrotoluene         | 9.76  | 165  | 32933    | 7.459  | ng    | # 32   |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 32933    | 5.755  | ng    | # 20   |
| 67) 4-Bromophenyl-phenylether  | 10.56 | 248  | 28559    | 4.178  | ng    | # 1    |

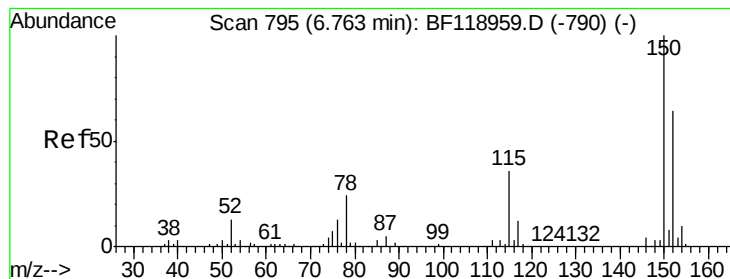
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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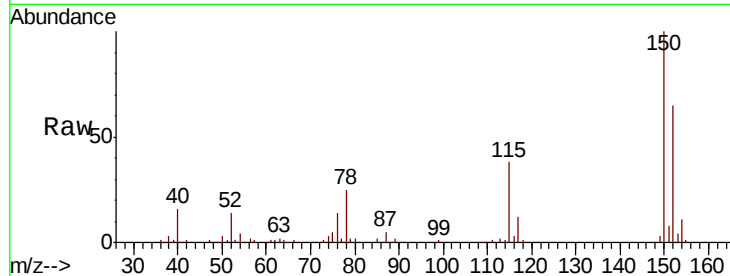


#1

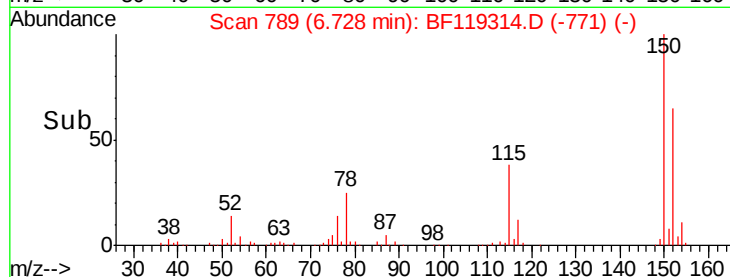
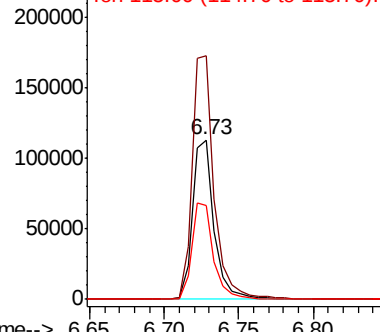
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. 0.01 min  
Lab File: BF119314.D  
Acq: 10 Mar 2020 13:40

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 114606  
Ion Ratio Lower Upper  
152 100  
150 153.0 123.0 184.6  
115 58.7 49.5 74.3



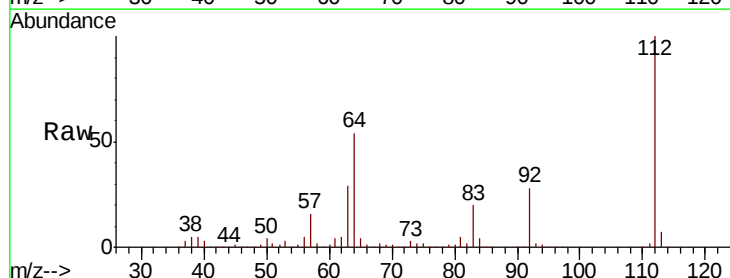
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



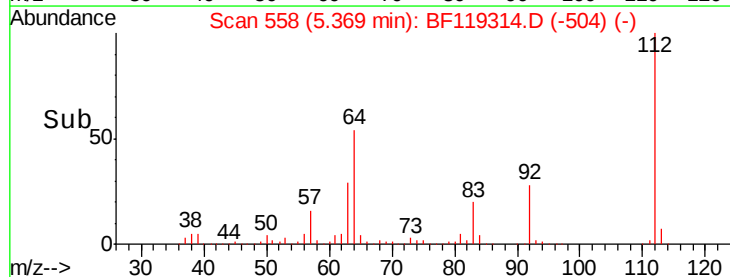
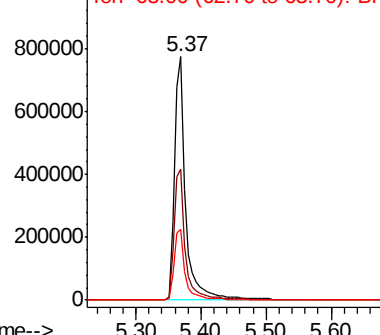
#5

2-Fluorophenol  
Concen: 135.336 ng  
RT: 5.37 min Scan# 558  
Delta R.T. 0.02 min  
Lab File: BF119314.D  
Acq: 10 Mar 2020 13:40

Tgt Ion:112 Resp: 928105  
Ion Ratio Lower Upper  
112 100  
64 54.0 45.0 67.4  
63 28.9 24.2 36.4



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 136.322 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF119314.D

Acq: 10 Mar 2020 13:40

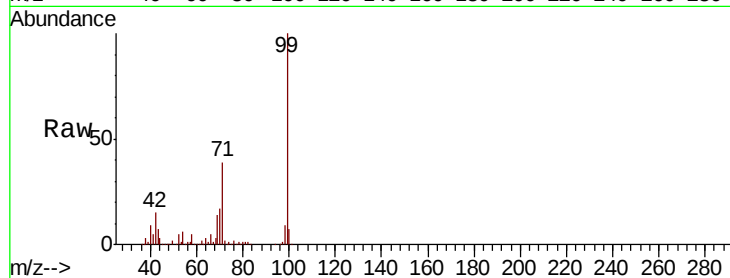
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1136969

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 14.7  | 12.6  | 18.8  |
| 71  | 38.6  | 31.0  | 46.4  |

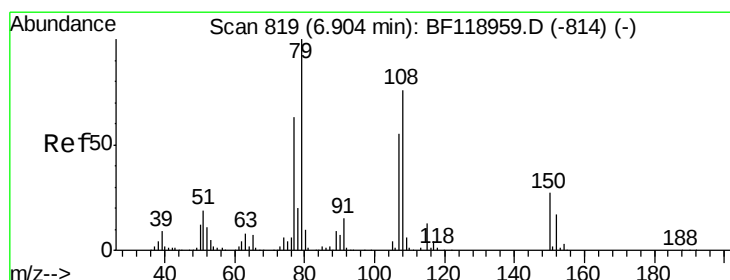
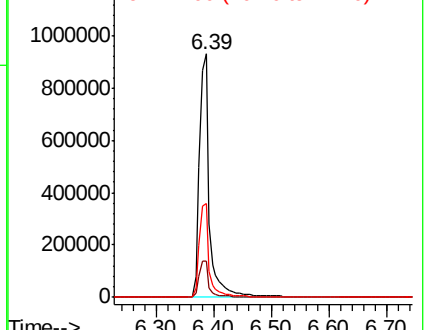
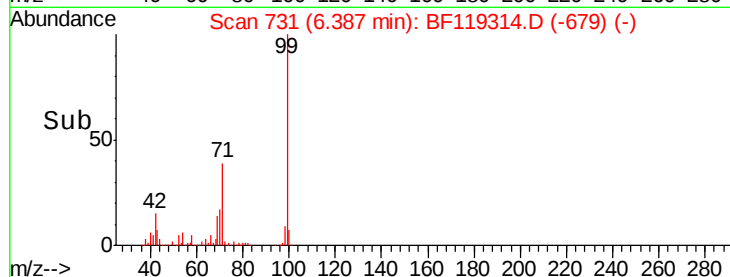


Abundance

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



#15

Benzyl Alcohol

Concen: 2.211 ng

RT: 6.88 min Scan# 815

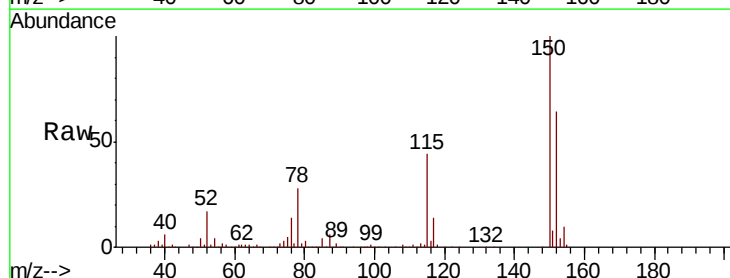
Delta R.T. 0.00 min

Lab File: BF119314.D

Acq: 10 Mar 2020 13:40

Tgt Ion: 79 Resp: 13325

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 79  | 100   |       |       |
| 108 | 35.5  | 58.2  | 87.2# |
| 77  | 111.3 | 51.2  | 76.8# |

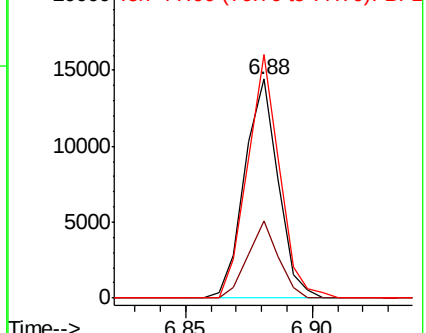
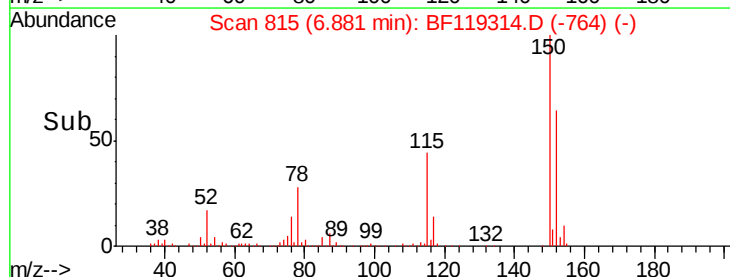


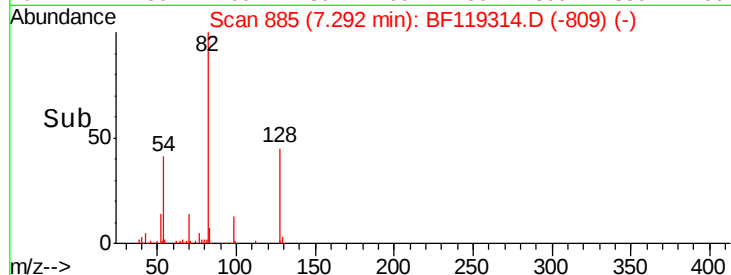
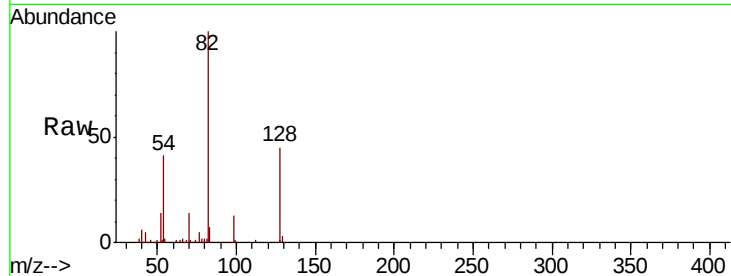
Abundance

Ion 79.00 (78.70 to 79.70): BF1

Ion 108.00 (107.70 to 108.70): BF1

Ion 77.00 (76.70 to 77.70): BF1

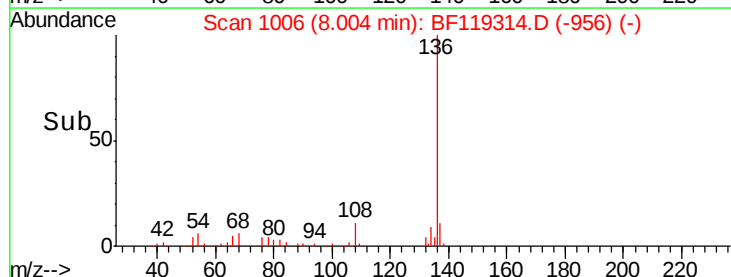
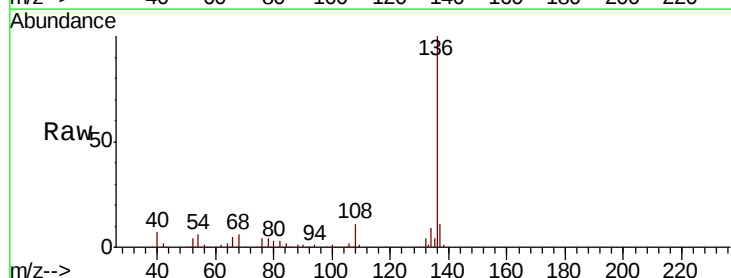
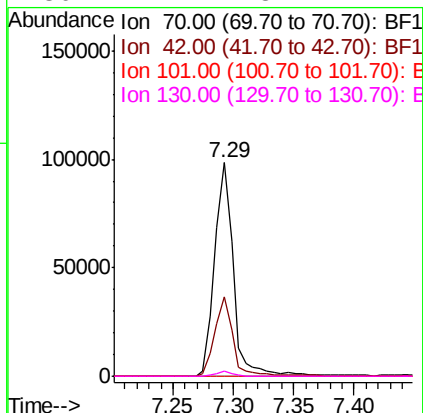




#19  
n-Nitroso-di-n-propylamine  
Concen: 21.623 ng  
RT: 7.29 min Scan# 885  
Delta R.T. 0.15 min  
Lab File: BF119314.D  
Acq: 10 Mar 2020 13:40

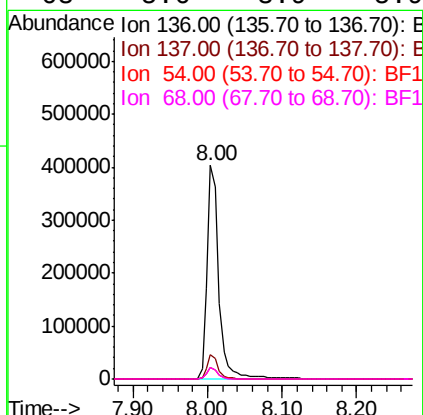
Instrument :  
BNA\_F  
ClientSampleId :

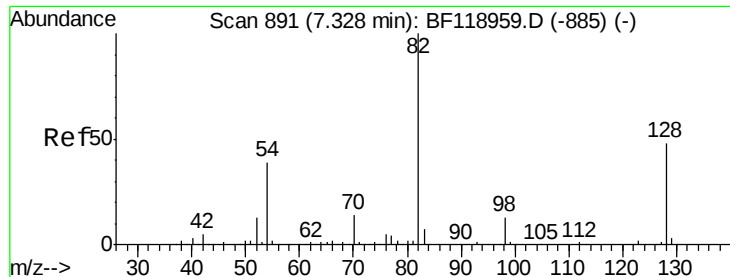
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 37.3  | 38.0  | 57.0# |
| 101     | 0.0   | 8.2   | 12.4# |
| 130     | 2.1   | 18.2  | 27.4# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1006  
Delta R.T. -0.01 min  
Lab File: BF119314.D  
Acq: 10 Mar 2020 13:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.3  | 8.8   | 13.2  |
| 54      | 5.5   | 3.8   | 5.6   |
| 68      | 5.6   | 3.9   | 5.9   |

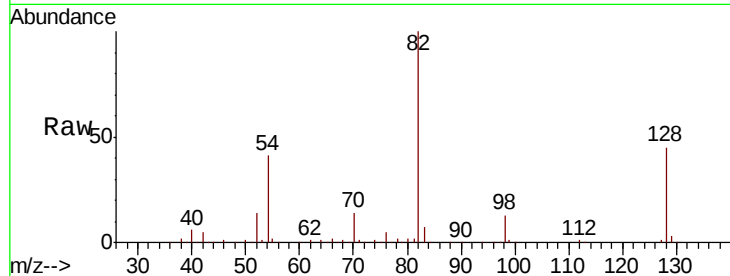




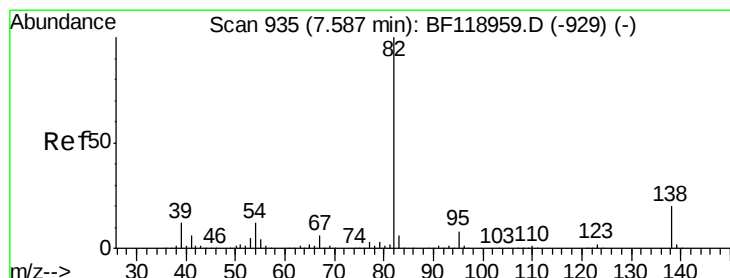
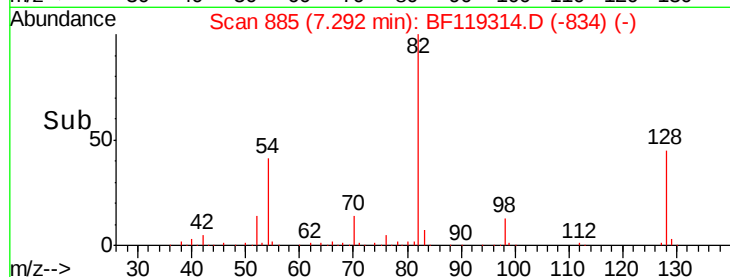
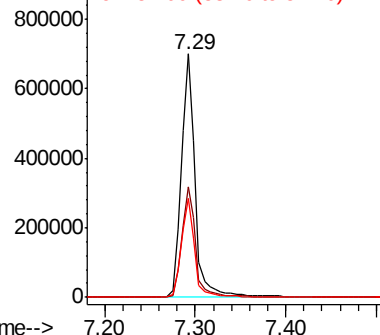
#23  
Nitrobenzene-d5  
Concen: 90.200 ng  
RT: 7.29 min Scan# 885  
Delta R.T. 0.00 min  
Lab File: BF119314.D  
Acq: 10 Mar 2020 13:40

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.2  | 37.9  | 56.9  |
| 54      | 40.6  | 33.4  | 50.2  |

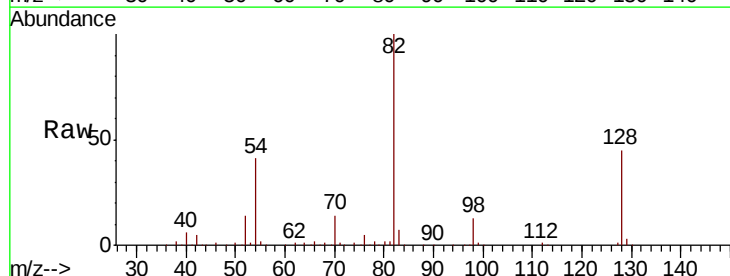


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

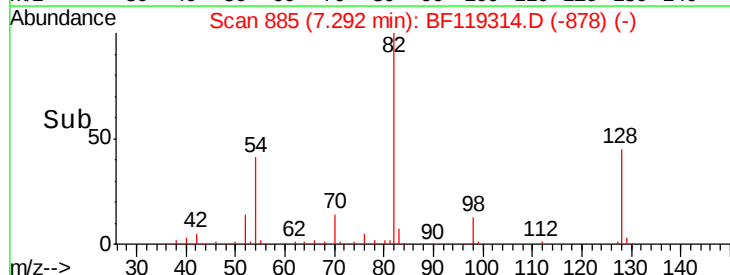
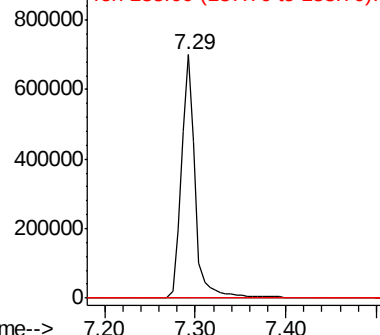


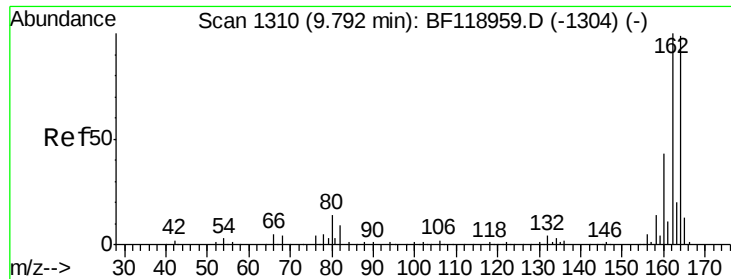
#25  
Isophorone  
Concen: 51.937 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.26 min  
Lab File: BF119314.D  
Acq: 10 Mar 2020 13:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 6.4   | 9.6#  |
| 138     | 0.0   | 15.7  | 23.5# |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF119314.D

Acq: 10 Mar 2020 13:40

Instrument :

BNA\_F

ClientSampleId :

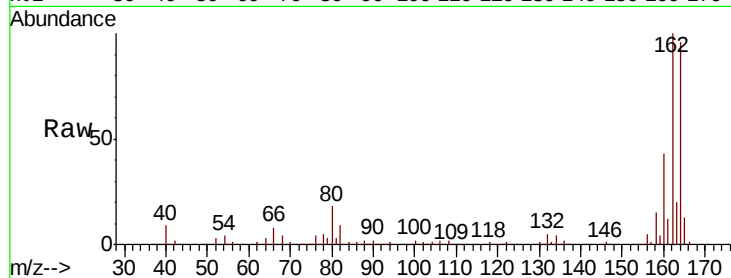
Tot Ion:164 Resp: 259870

Ion Ratio Lower Upper

164 100

162 104.3 81.8 122.8

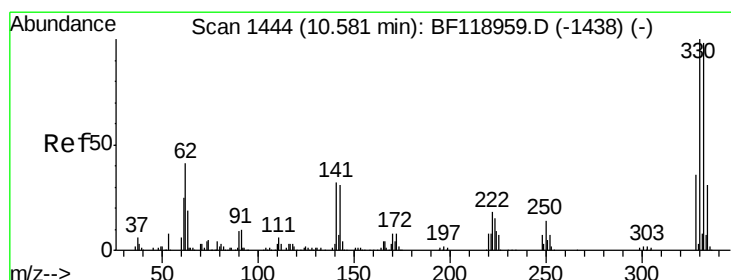
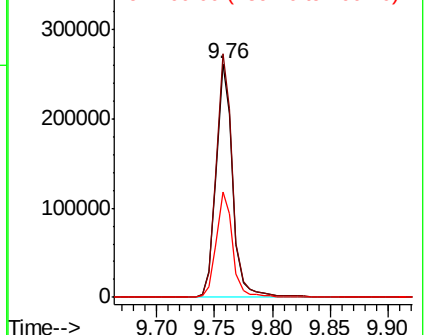
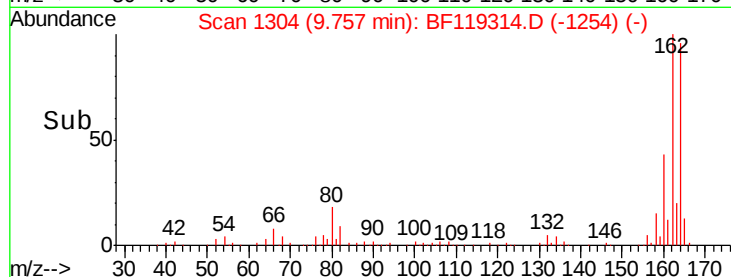
160 45.2 36.0 54.0



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: 127.043 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.00 min

Lab File: BF119314.D

Acq: 10 Mar 2020 13:40

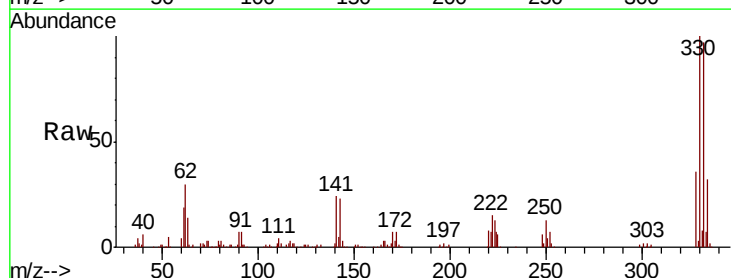
Tgt Ion:330 Resp: 431886

Ion Ratio Lower Upper

330 100

332 97.6 76.0 114.0

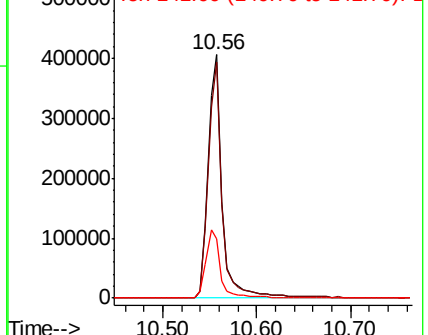
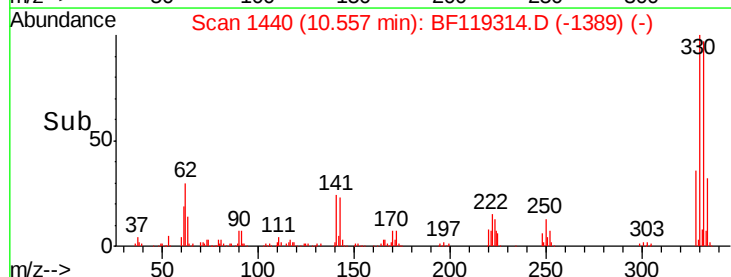
141 29.6 22.9 34.3

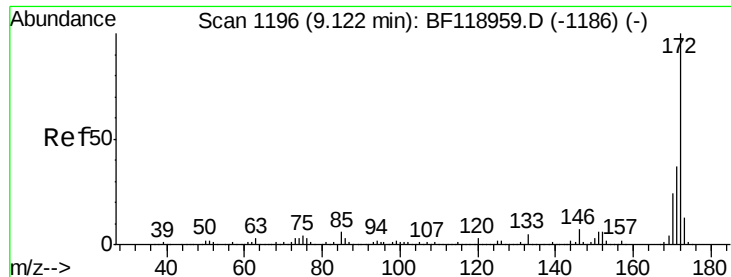


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



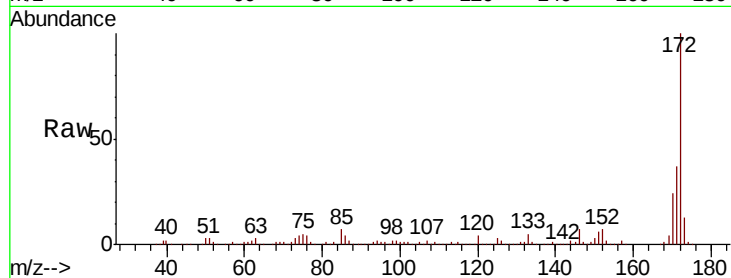


#45  
 2-Fluorobiphenyl  
 Concen: 87.237 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF119314.D  
 Acq: 10 Mar 2020 13:40

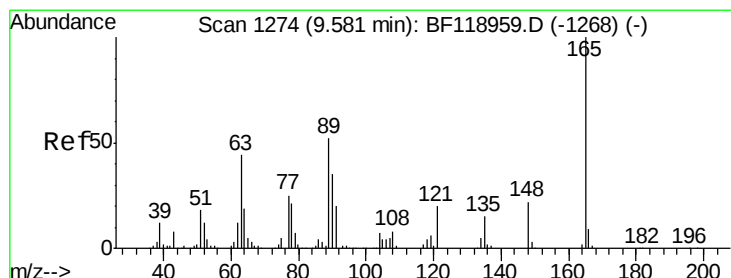
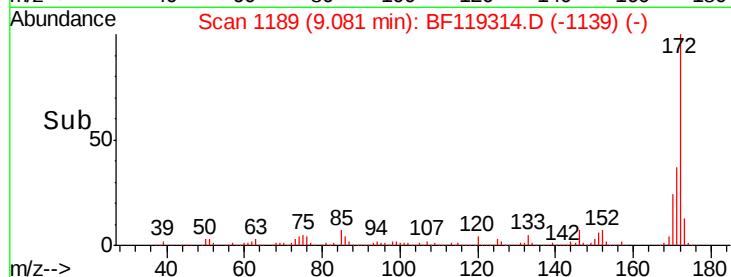
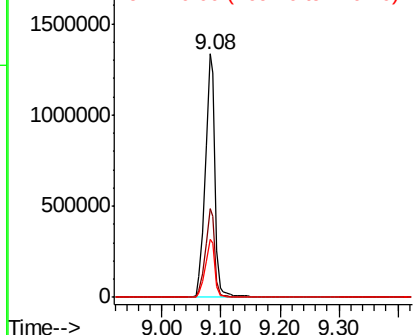
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 1538882  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.6  | 30.6  | 45.8  |
| 170 | 23.8  | 20.2  | 30.2  |



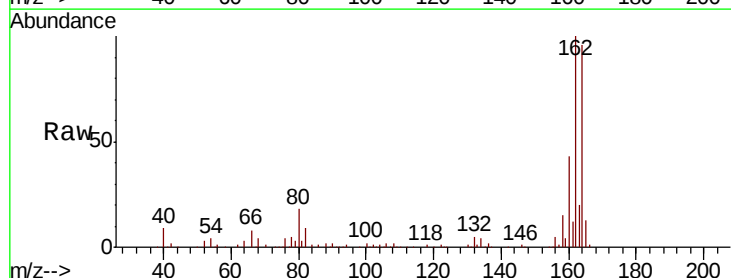
Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E



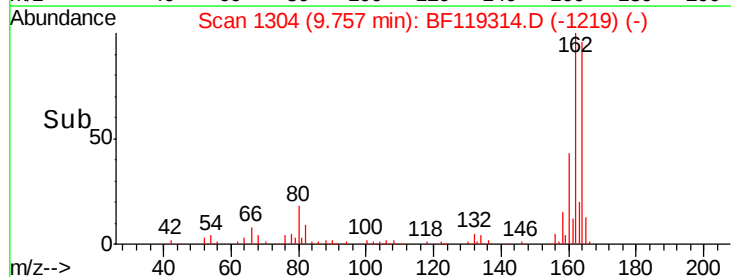
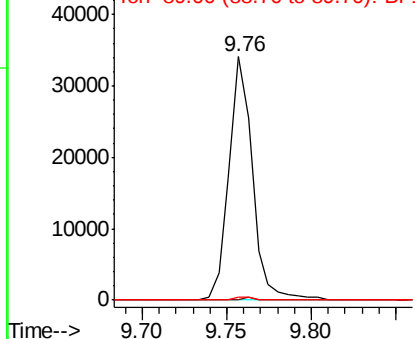
#51  
 2,6-Dinitrotoluene  
 Concen: 7.459 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. 0.20 min  
 Lab File: BF119314.D  
 Acq: 10 Mar 2020 13:40

Tgt Ion:165 Resp: 32933  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 0.0   | 34.3  | 51.5# |
| 89  | 1.5   | 38.3  | 57.5# |



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

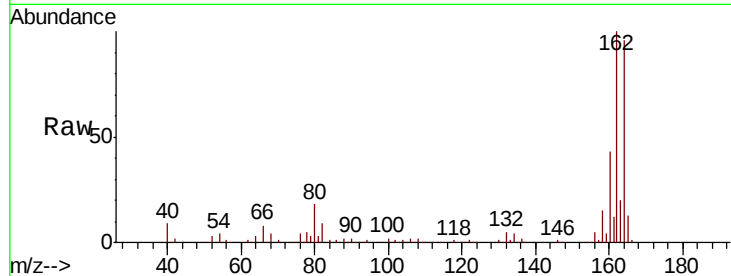




#57  
2,4-Dinitrotoluene  
Concen: 5.755 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.21 min  
Lab File: BF119314.D  
Acq: 10 Mar 2020 13:40

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 42.3  | 63.5# |
| 89      | 1.5   | 60.2  | 90.4# |
| 182     | 0.0   | 2.3   | 3.5#  |



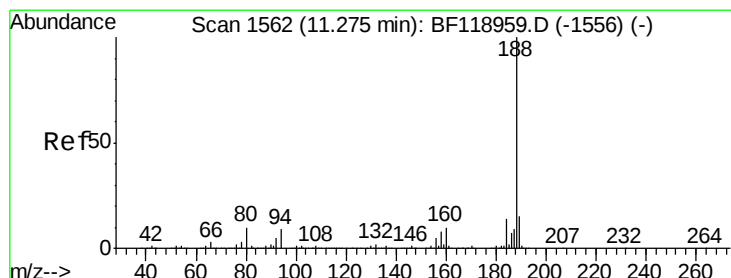
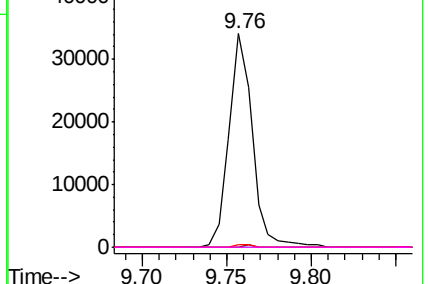
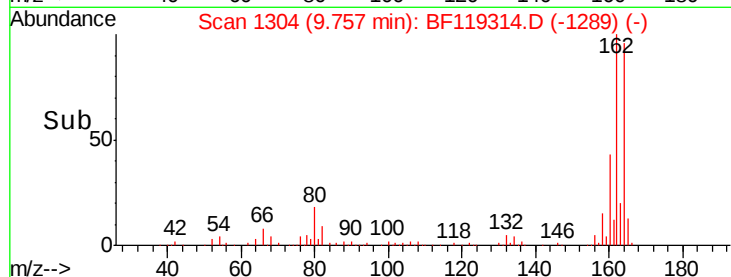
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

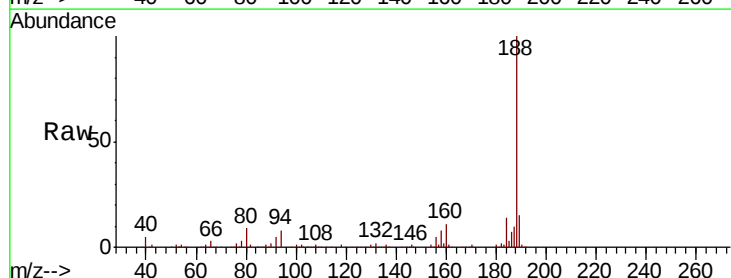
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.25 min Scan# 1557  
Delta R.T. 0.00 min  
Lab File: BF119314.D  
Acq: 10 Mar 2020 13:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.2   | 7.1   | 10.7  |
| 80      | 9.1   | 7.8   | 11.8  |

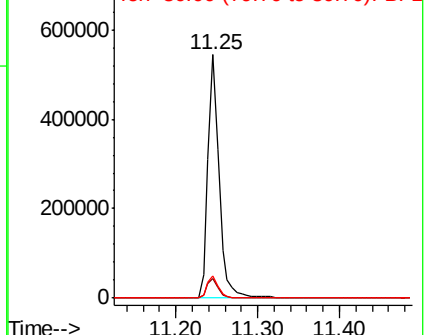
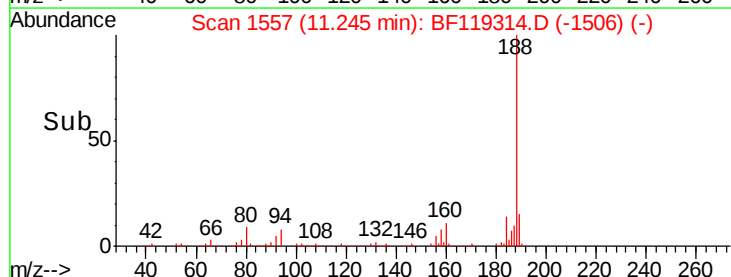


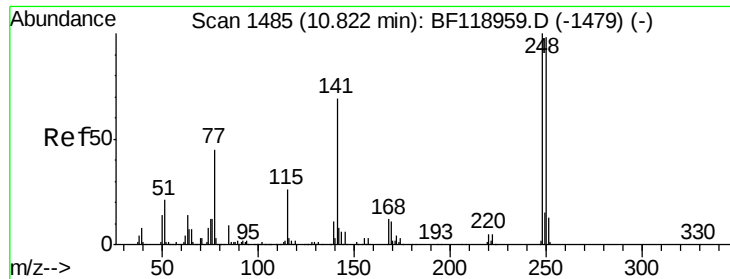
Abundance

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

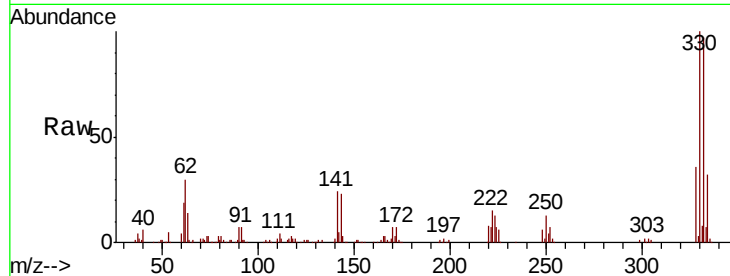




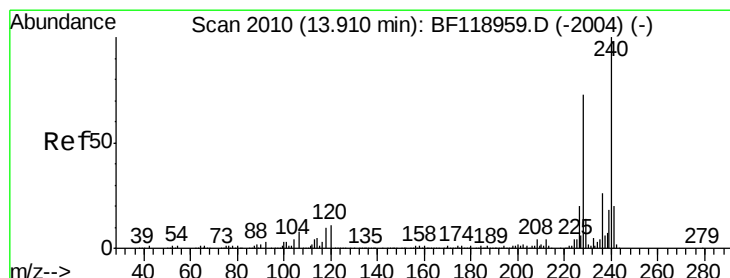
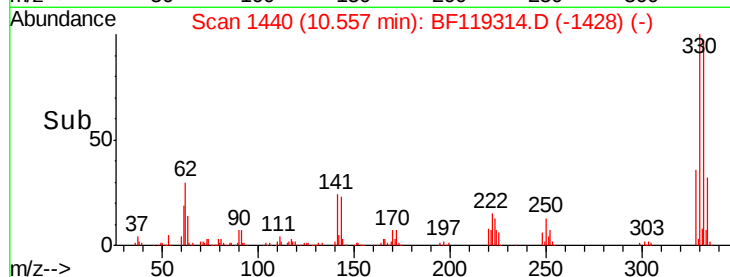
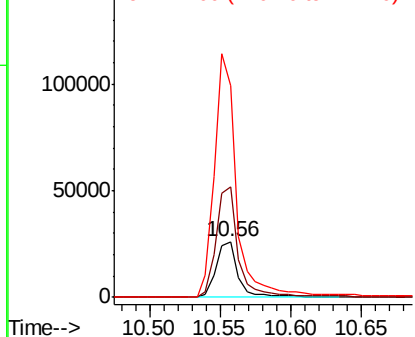
#67  
4-Bromophenyl-phenylether  
Concen: 4.178 ng  
RT: 10.56 min Scan# 1440  
Delta R.T. -0.23 min  
Lab File: BF119314.D  
Acq: 10 Mar 2020 13:40

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:248 Resp: 28559  
Ion Ratio Lower Upper  
248 100  
250 198.4 76.7 115.1#  
141 378.6 60.7 91.1#

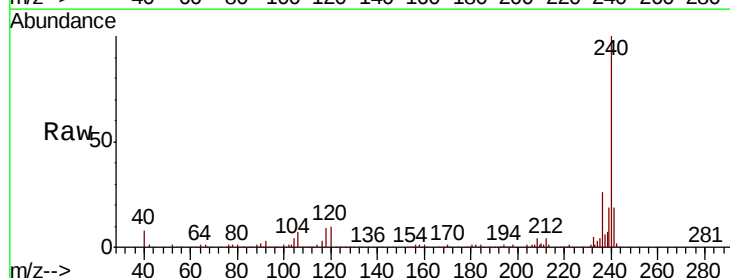


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

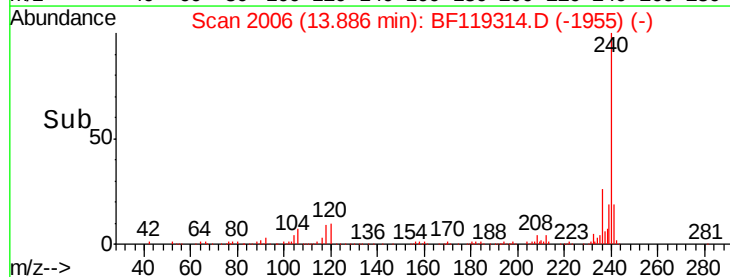
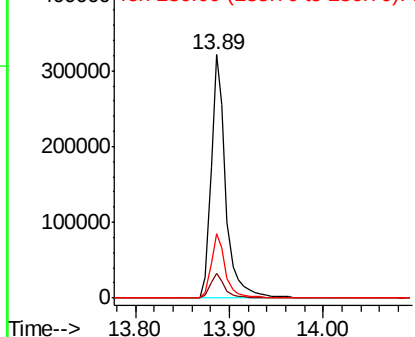


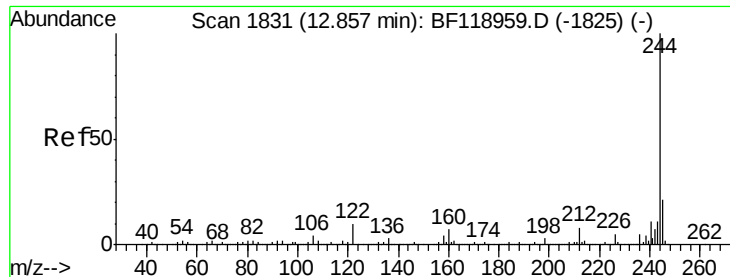
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.89 min Scan# 2006  
Delta R.T. 0.00 min  
Lab File: BF119314.D  
Acq: 10 Mar 2020 13:40

Tgt Ion:240 Resp: 354854  
Ion Ratio Lower Upper  
240 100  
120 10.2 8.4 12.6  
236 26.2 21.0 31.4



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: 100.614 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.01 min

Lab File: BF119314.D

Acq: 10 Mar 2020 13:40

Instrument :

BNA\_F

ClientSampleId :

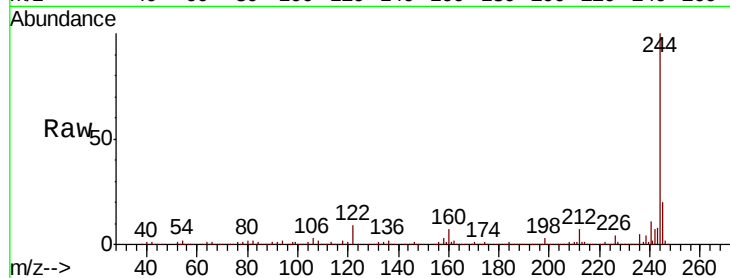
Tot Ion:244 Resp: 2073759

Ion Ratio Lower Upper

244 100

212 7.4 6.6 10.0

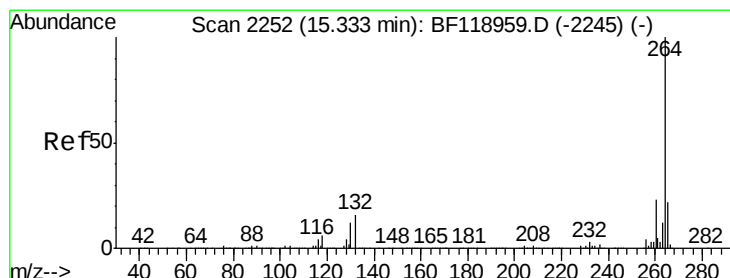
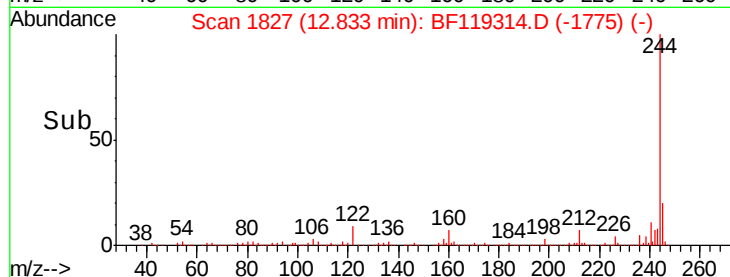
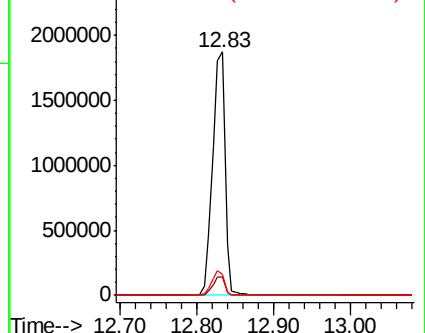
122 8.8 8.2 12.2



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: 15.32 min Scan# 2250

Delta R.T. 0.01 min

Lab File: BF119314.D

Acq: 10 Mar 2020 13:40

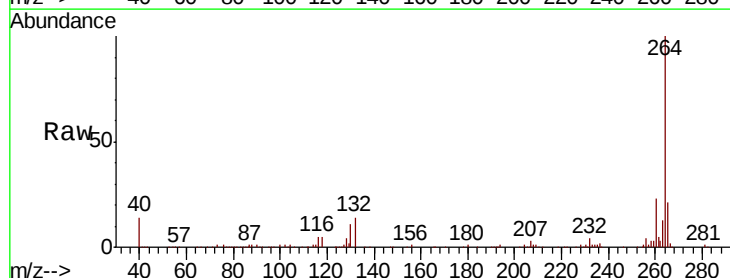
Tgt Ion:264 Resp: 293461

Ion Ratio Lower Upper

264 100

260 23.2 19.4 29.2

265 20.9 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

