

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012319\  
 Data File : BF112198.D  
 Acq On : 23 Jan 2019 13:35  
 Operator : JU/SJ  
 Sample : K1210-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 23 14:23:32 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jan 19 01:02:12 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 207330   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 805205   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.89  | 164  | 397718   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.38 | 188  | 706289   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.02 | 240  | 634495   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.49 | 264  | 546978   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.49  | 112  | 1482422  | 129.78 | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 1879467  | 131.51 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 1207641  | 103.62 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.69 | 330  | 618089   | 144.06 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.21  | 172  | 2410141  | 88.85  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.97 | 244  | 2508032  | 84.09  | ng    | 0.00     |

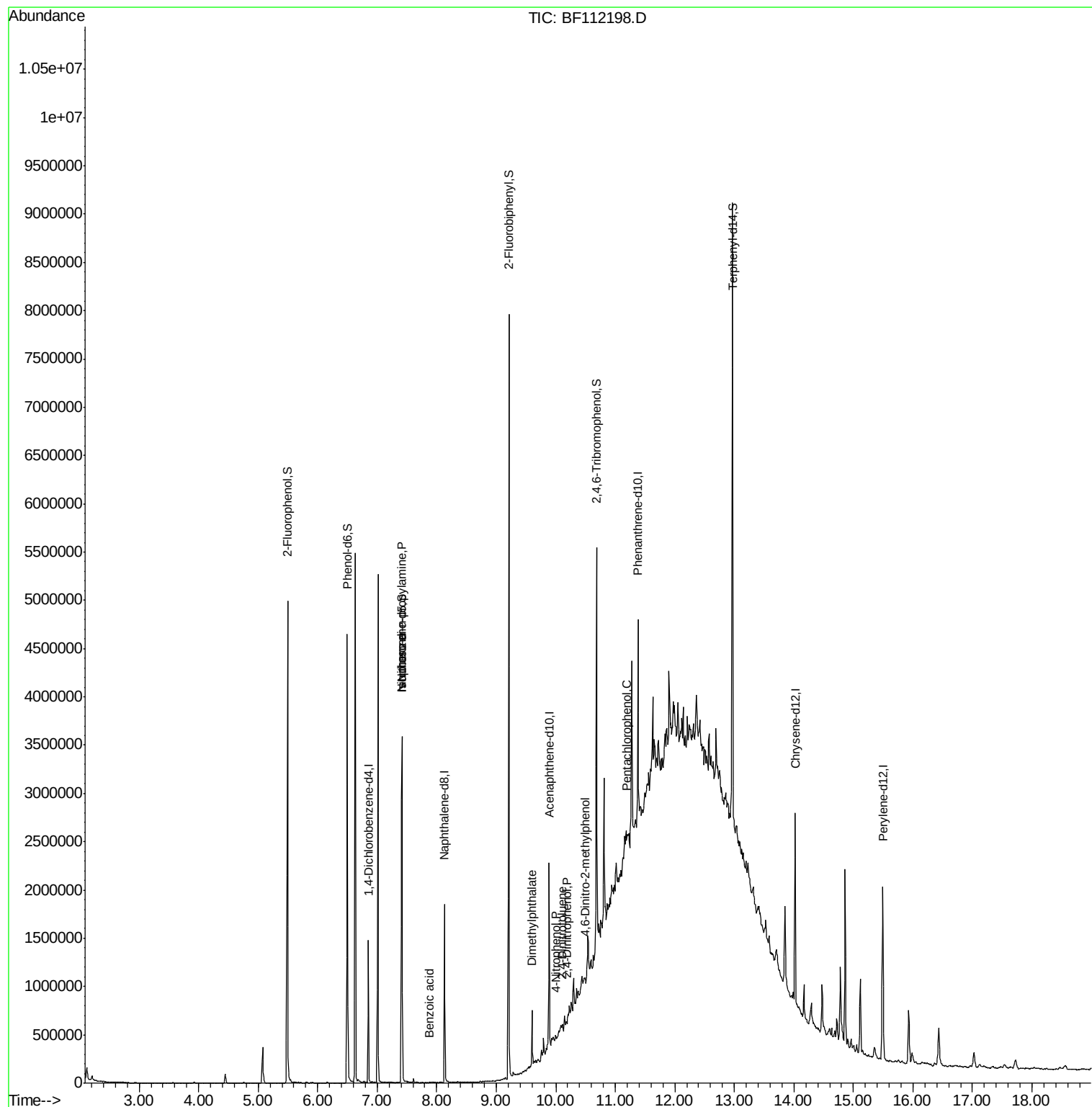
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.50  | 77   | 2829     | Below Cal |       | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 165274   | 18.983    | ng    | # 74   |
| 25) Isophorone                 | 7.42  | 82   | 1197178  | 53.181    | ng    | # 63   |
| 32) Benzoic acid               | 7.89  | 122  | 129      | 7.197     | ng    | # 34   |
| 50) Dimethylphthalate          | 9.60  | 163  | 186232   | 6.421     | ng    | # 99   |
| 54) 2,4-Dinitrophenol          | 10.19 | 184  | 120      | 7.834     | ng    | # 1    |
| 56) 4-Nitrophenol              | 10.01 | 139  | 1115     | 5.879     | ng    | # 1    |
| 57) 2,4-Dinitrotoluene         | 10.12 | 165  | 2738     | 4.915     | ng    | # 47   |
| 65) 4,6-Dinitro-2-methylphenol | 10.50 | 198  | 237      | 10.133    | ng    | # 1    |
| 70) Pentachlorophenol          | 11.19 | 266  | 1235     | 6.374     | ng    | # 40   |

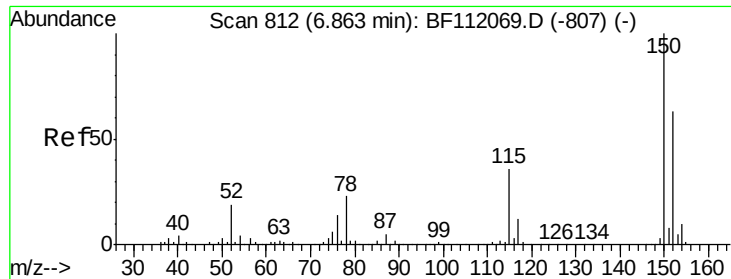
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012319\  
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Operator : JU/SJ  
Sample : K1210-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jan 23 14:23:32 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jan 19 01:02:12 2019  
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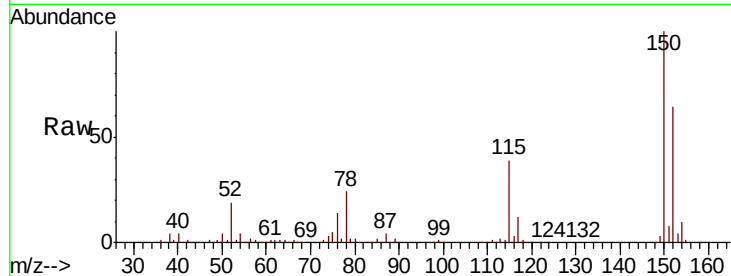




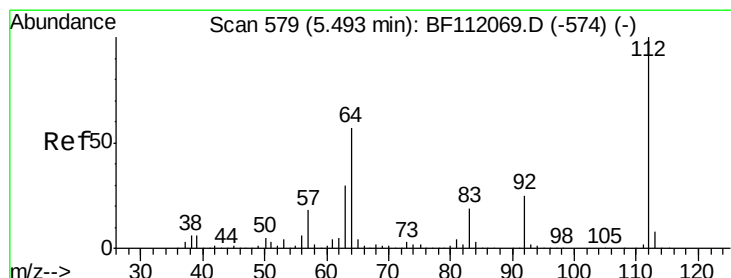
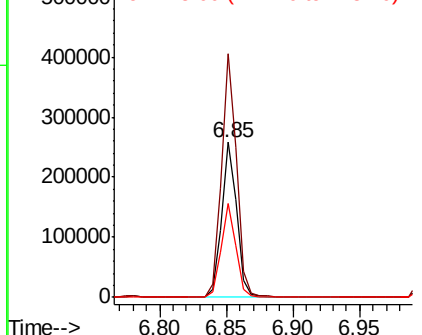
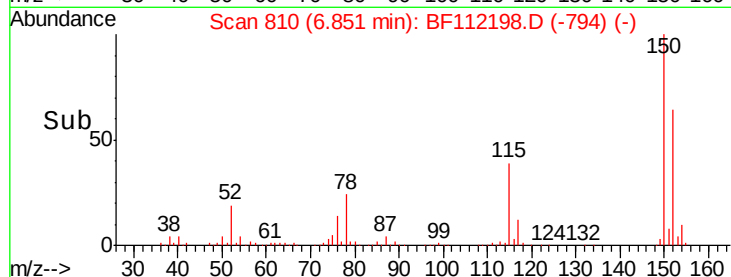
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.85 min Scan# 810  
 Delta R.T. -0.01 min  
 Lab File: BF112198.D  
 Acq: 23 Jan 2019 13:35

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 207330  
 Ion Ratio Lower Upper  
 152 100  
 150 157.0 127.4 191.0  
 115 60.7 45.5 68.3

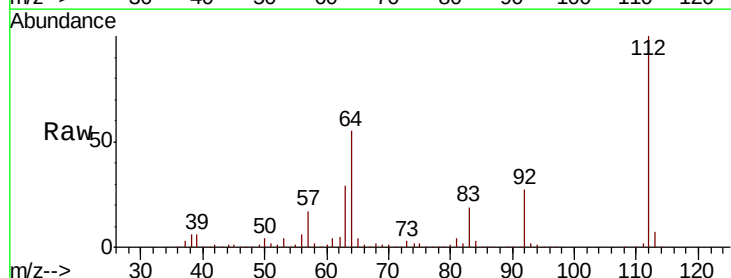


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

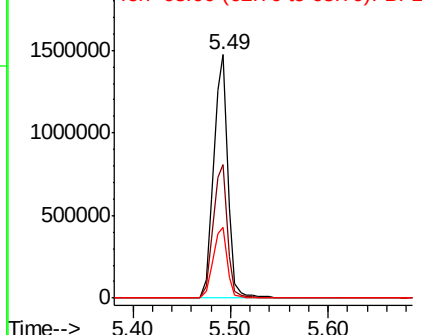
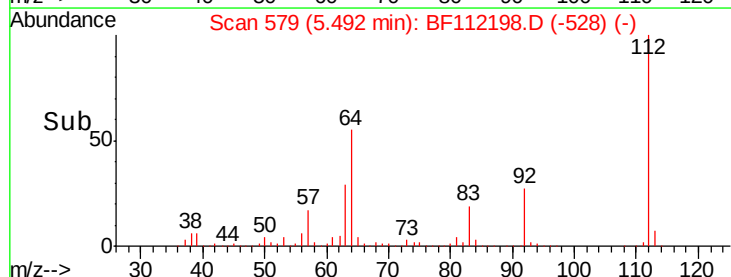


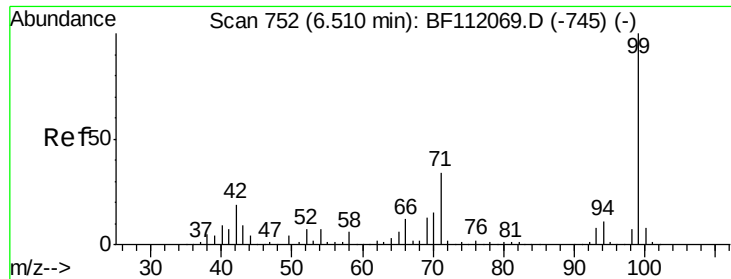
#5  
 2-Fluorophenol  
 Concen: 129.776 ng  
 RT: 5.49 min Scan# 579  
 Delta R.T. 0.00 min  
 Lab File: BF112198.D  
 Acq: 23 Jan 2019 13:35

Tgt Ion:112 Resp: 1482422  
 Ion Ratio Lower Upper  
 112 100  
 64 54.7 45.7 68.5  
 63 29.3 23.6 35.4



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: 131.507 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: BF112198.D

Acq: 23 Jan 2019 13:35

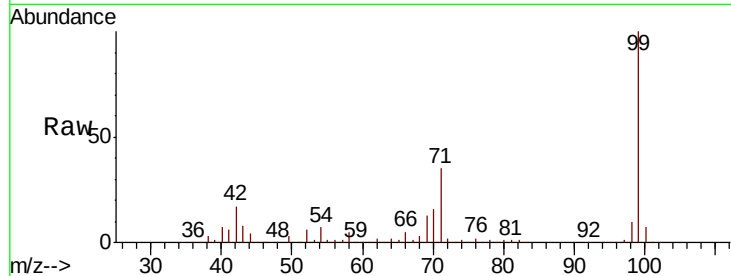
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1879467

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.4  | 15.1  | 22.7  |
| 71  | 34.8  | 26.9  | 40.3  |

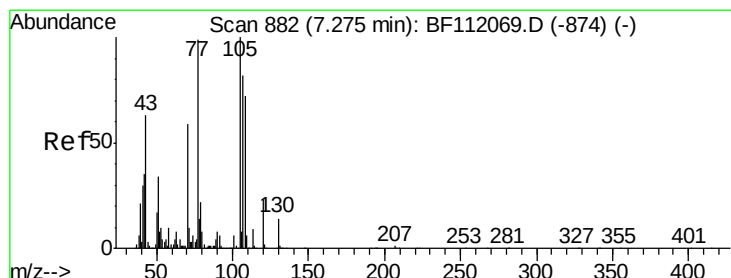
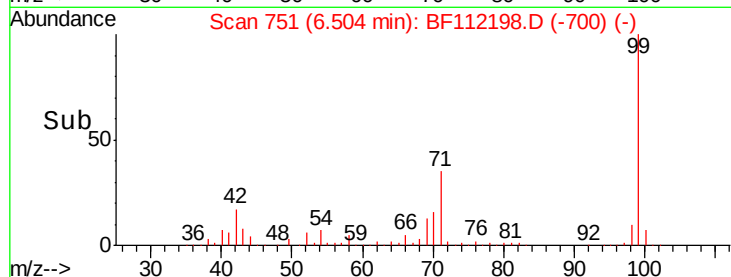
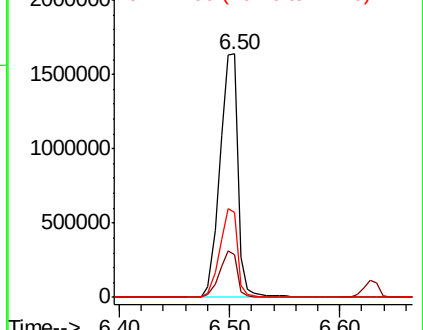


Abundance

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: 18.983 ng

RT: 7.42 min Scan# 906

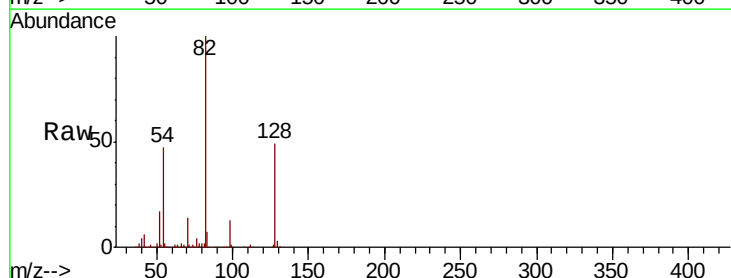
Delta R.T. 0.14 min

Lab File: BF112198.D

Acq: 23 Jan 2019 13:35

Tgt Ion: 70 Resp: 165274

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 44.4  | 47.6  | 71.4# |
| 101 | 0.0   | 7.9   | 11.9# |
| 130 | 2.4   | 18.4  | 27.6# |



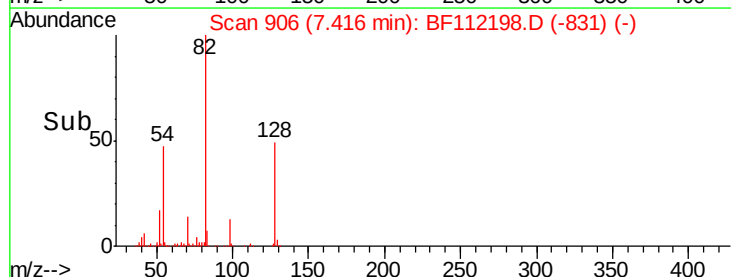
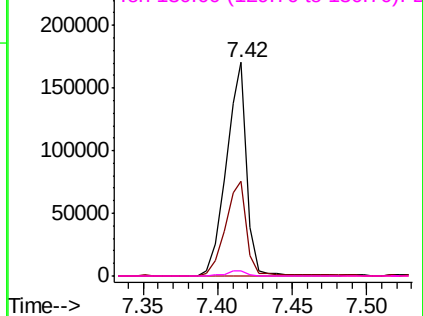
Abundance

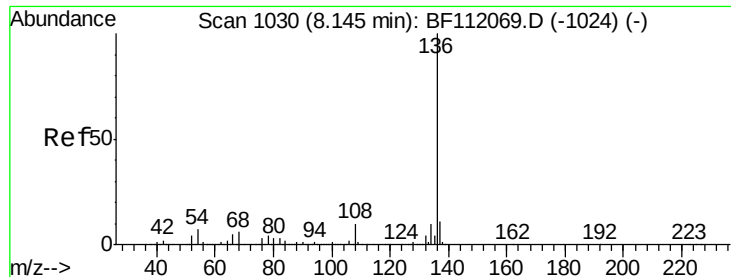
Ion 70.00 (69.70 to 70.70): BF1

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

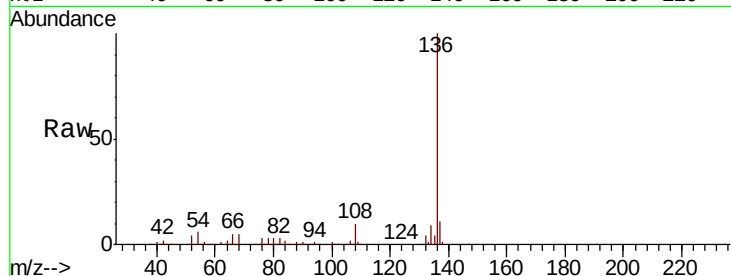




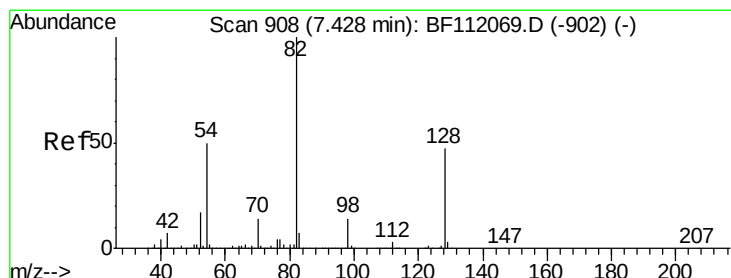
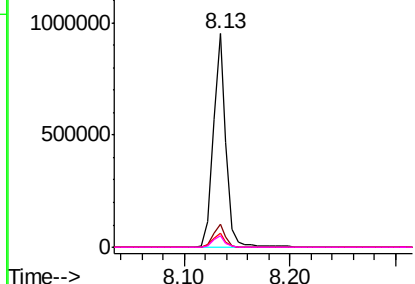
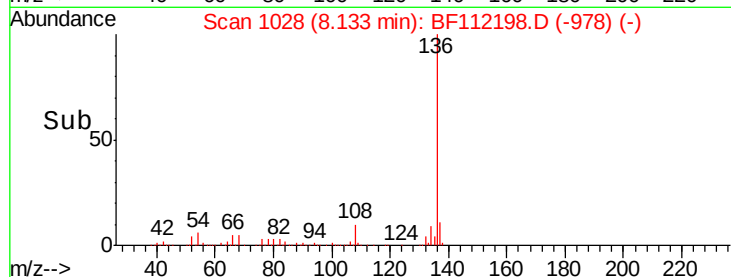
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: BF112198.D  
Acq: 23 Jan 2019 13:35

Instrument :  
BNA\_F  
ClientSampled :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 805205   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.0  | 9.1 13.7 |
| 54          | 6.4   | 5.9 8.9  |
| 68          | 5.2   | 5.1 7.7  |

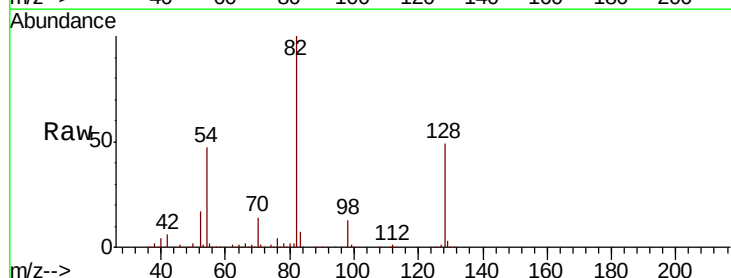


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

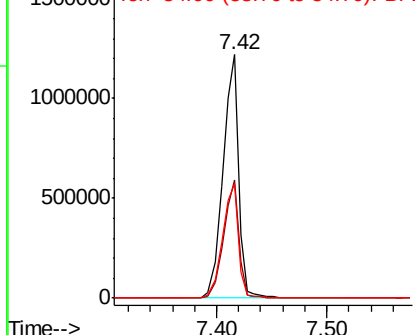
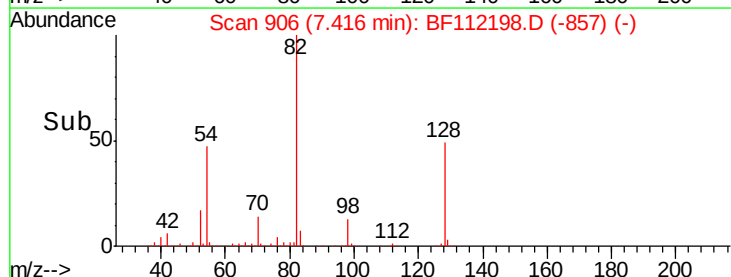


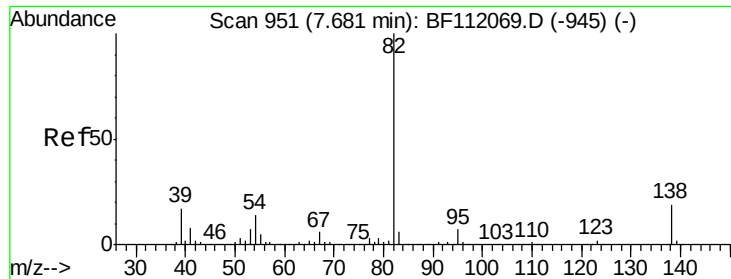
#23  
Nitrobenzene-d5  
Concen: 103.619 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.01 min  
Lab File: BF112198.D  
Acq: 23 Jan 2019 13:35

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 1207641   |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 48.7  | 37.8 56.8 |
| 54          | 47.2  | 39.7 59.5 |



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: 53.181 ng

RT: 7.42 min Scan# 906

Delta R.T. -0.26 min

Lab File: BF112198.D

Acq: 23 Jan 2019 13:35

Instrument :

BNA\_F

ClientSampleId :

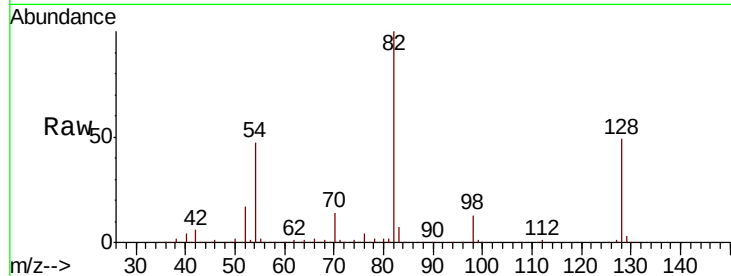
Tot Ion: 82 Resp: 1197178

Ion Ratio Lower Upper

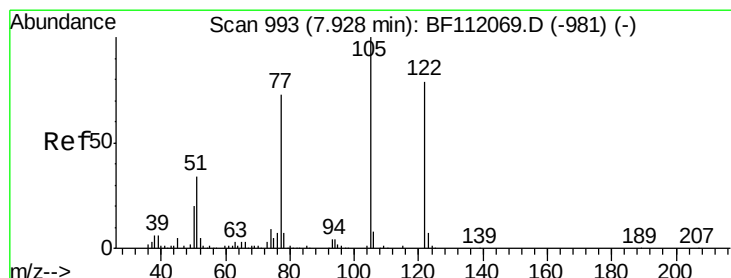
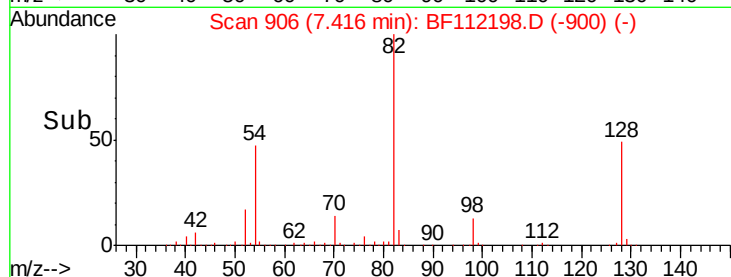
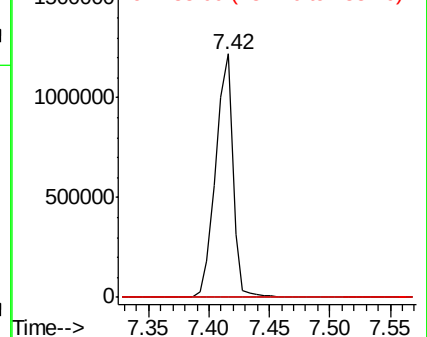
82 100

95 0.0 5.7 8.5#

138 0.0 15.4 23.0#



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: 7.197 ng

RT: 7.89 min Scan# 986

Delta R.T. -0.05 min

Lab File: BF112198.D

Acq: 23 Jan 2019 13:35

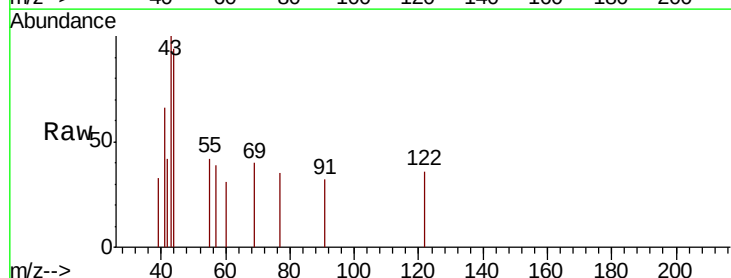
Tgt Ion: 122 Resp: 129

Ion Ratio Lower Upper

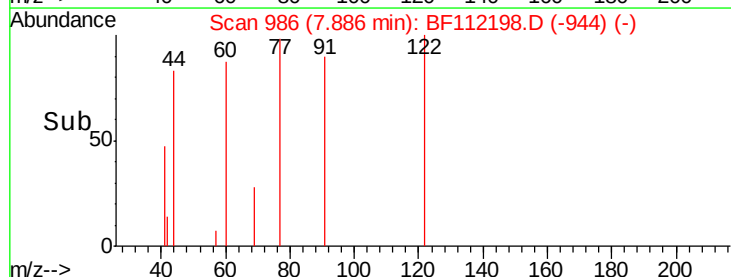
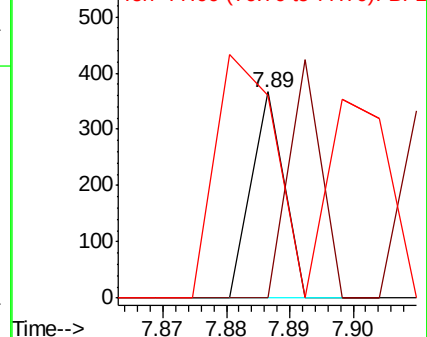
122 100

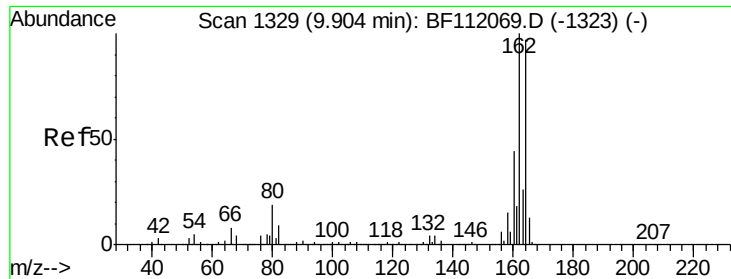
105 0.0 101.2 141.2#

77 98.4 70.4 110.4



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BF112198.D

Acq: 23 Jan 2019 13:35

Instrument :

BNA\_F

ClientSampleId :

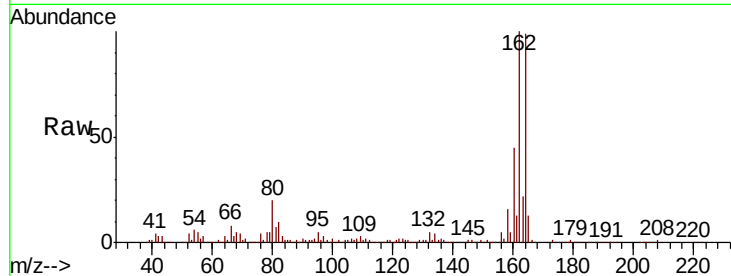
Tot Ion:164 Resp: 397718

Ion Ratio Lower Upper

164 100

162 101.3 82.2 123.4

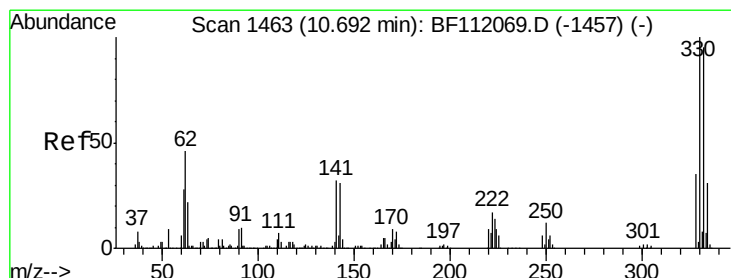
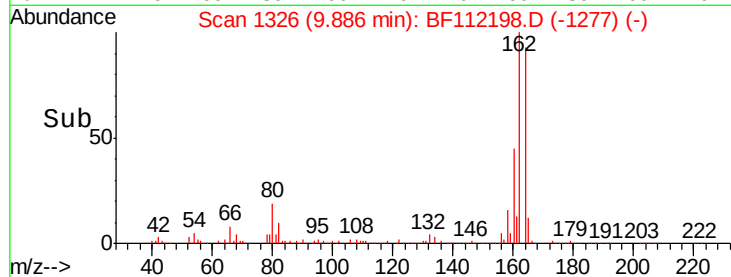
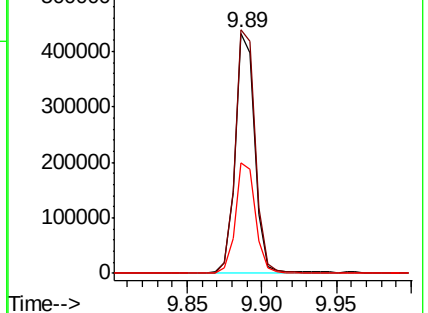
160 45.8 36.2 54.4



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: 144.060 ng

RT: 10.69 min Scan# 1462

Delta R.T. -0.01 min

Lab File: BF112198.D

Acq: 23 Jan 2019 13:35

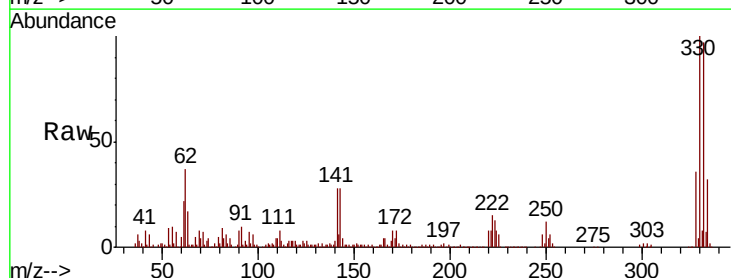
Tgt Ion:330 Resp: 618089

Ion Ratio Lower Upper

330 100

332 96.2 76.6 114.8

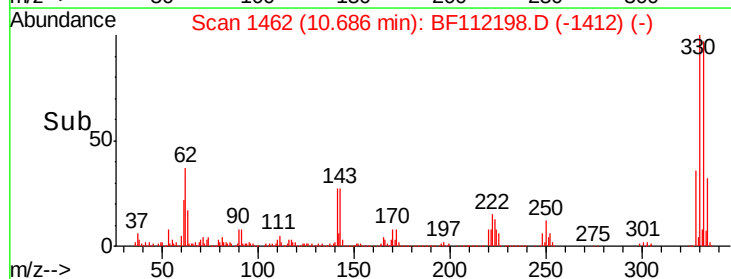
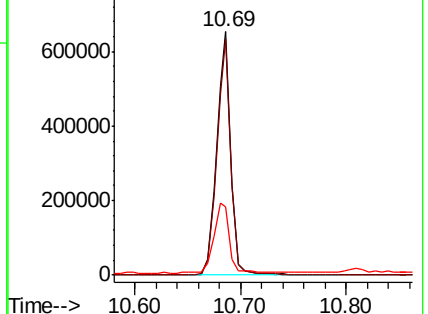
141 32.5 24.3 36.5

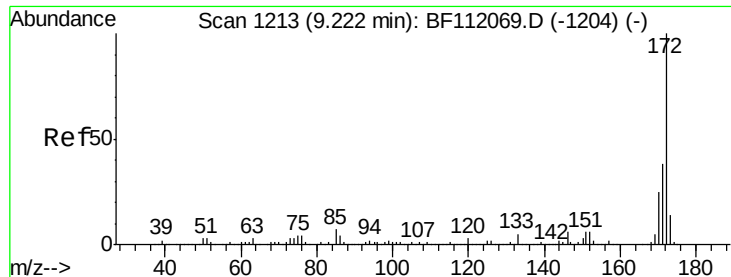


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

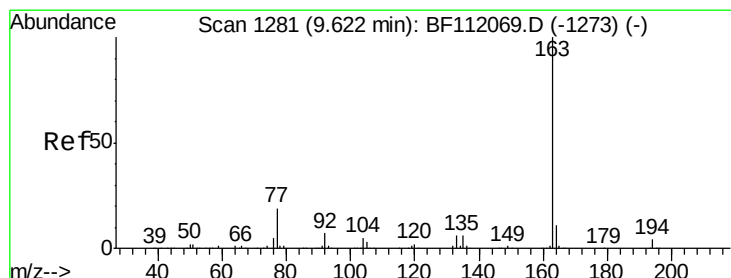
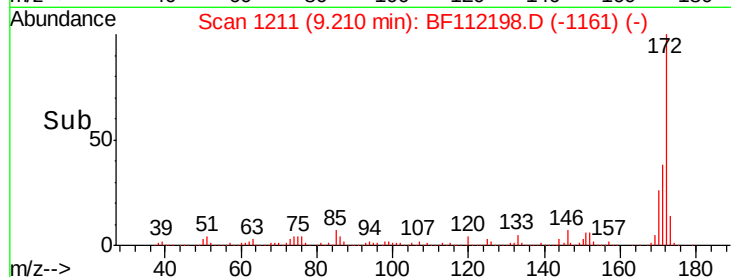
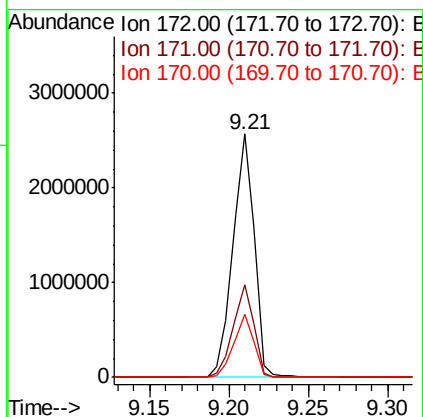
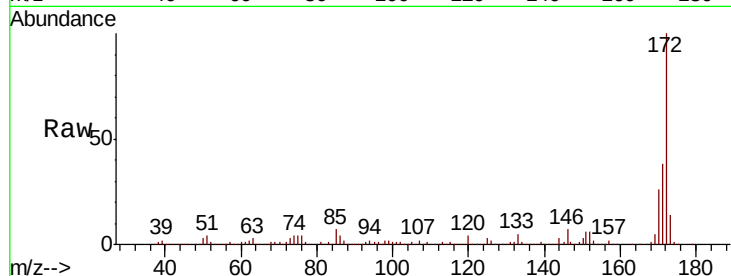




#45  
2-Fluorobiphenyl  
Concen: 88.845 ng  
RT: 9.21 min Scan# 1211  
Delta R.T. -0.01 min  
Lab File: BF112198.D  
Acq: 23 Jan 2019 13:35

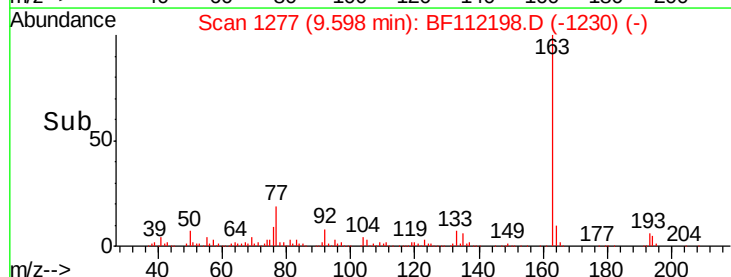
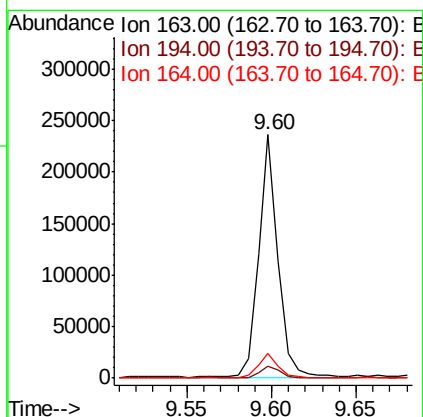
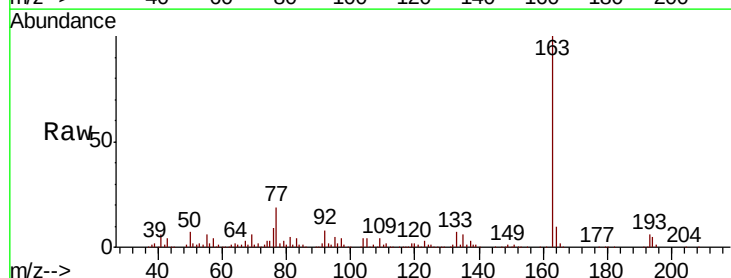
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 2410141  
Ion Ratio Lower Upper  
172 100  
171 38.2 30.5 45.7  
170 25.7 20.2 30.4

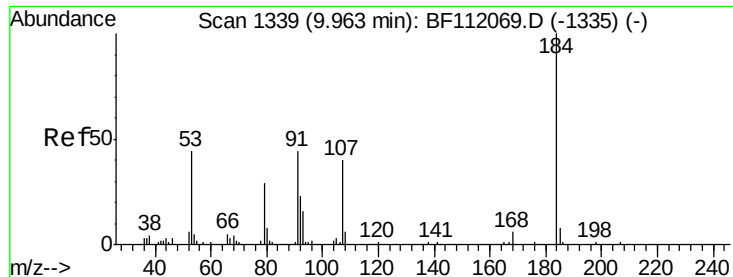


#50  
Dimethylphthalate  
Concen: 6.421 ng  
RT: 9.60 min Scan# 1277  
Delta R.T. -0.02 min  
Lab File: BF112198.D  
Acq: 23 Jan 2019 13:35

Tgt Ion:163 Resp: 186232  
Ion Ratio Lower Upper  
163 100  
194 4.8 3.3 4.9  
164 10.2 8.5 12.7



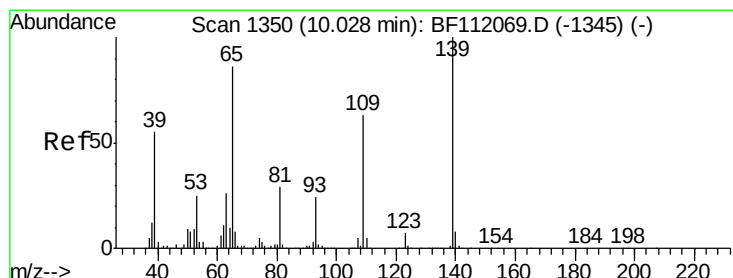
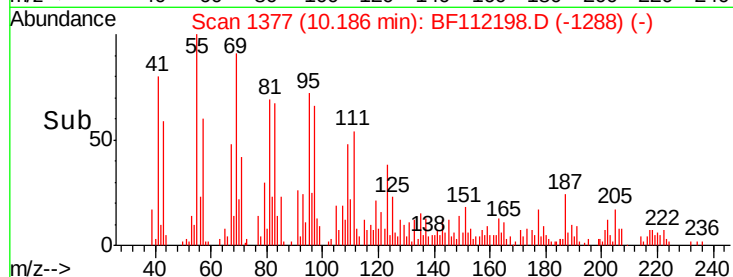
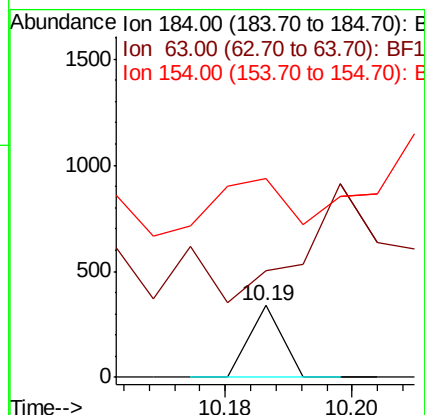
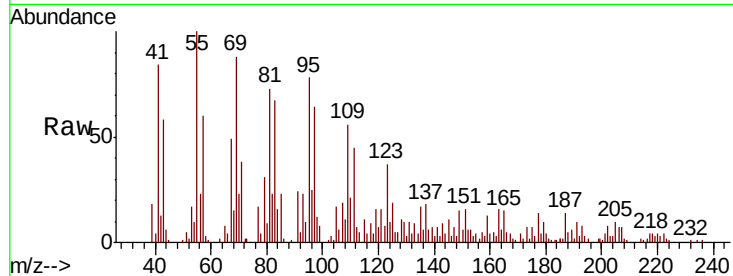




#54  
 2,4-Dinitrophenol  
 Concen: 7.834 ng  
 RT: 10.19 min Scan# 1377  
 Delta R.T. 0.22 min  
 Lab File: BF112198.D  
 Acq: 23 Jan 2019 13:35

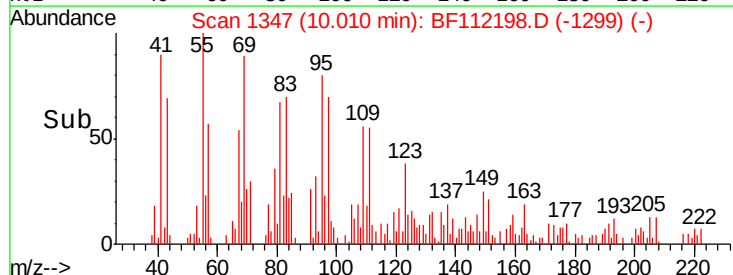
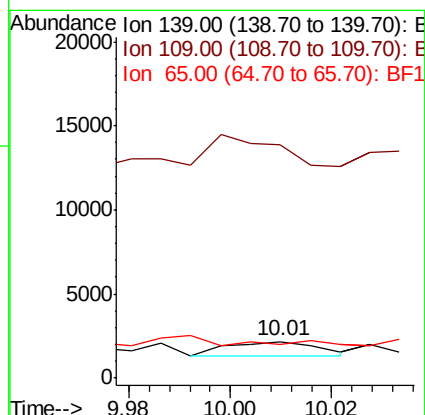
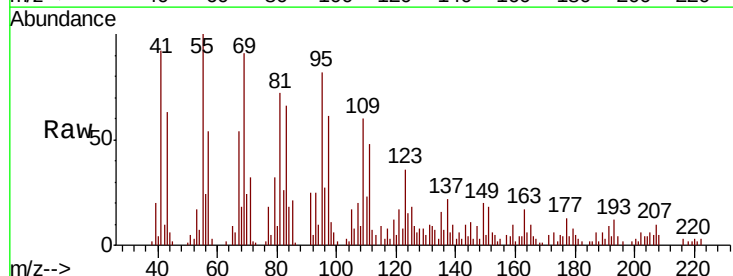
Instrument :  
 BNA\_F  
 ClientSampleId :

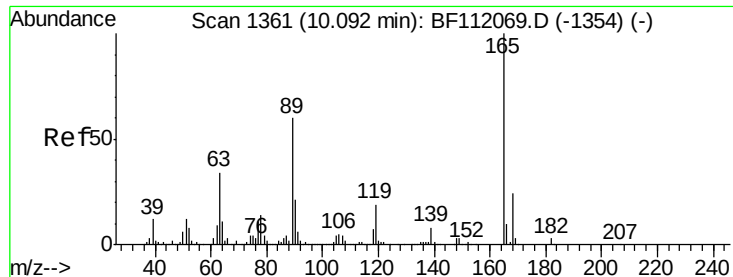
Tot Ion:184 Resp: 120  
 Ion Ratio Lower Upper  
 184 100  
 63 148.7 47.1 70.7#  
 154 277.0 48.9 73.3#



#56  
 4-Nitrophenol  
 Concen: 5.879 ng  
 RT: 10.01 min Scan# 1347  
 Delta R.T. -0.02 min  
 Lab File: BF112198.D  
 Acq: 23 Jan 2019 13:35

Tgt Ion:139 Resp: 1115  
 Ion Ratio Lower Upper  
 139 100  
 109 636.4 42.8 82.8#  
 65 92.3 66.1 106.1

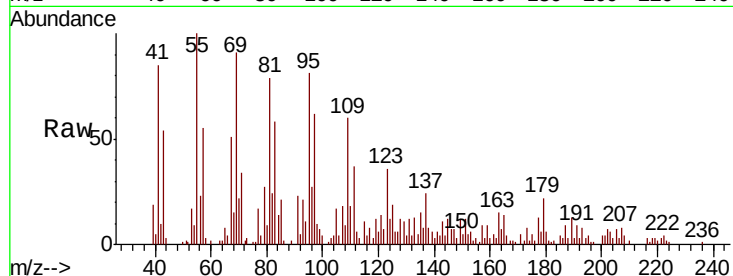




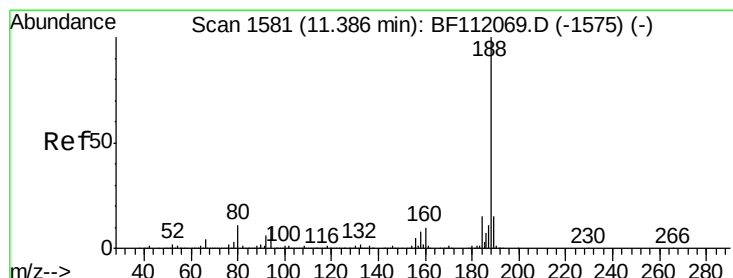
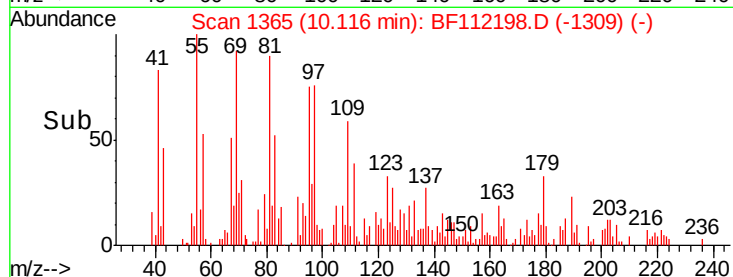
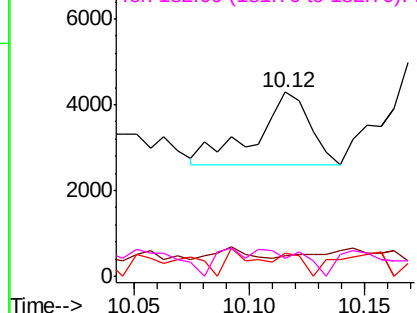
#57  
2,4-Dinitrotoluene  
Concen: 4.915 ng  
RT: 10.12 min Scan# 1365  
Delta R.T. 0.03 min  
Lab File: BF112198.D  
Acq: 23 Jan 2019 13:35

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:165 Resp: 2738  
Ion Ratio Lower Upper  
165 100  
63 11.4 27.9 41.9#  
89 12.7 47.9 71.9#  
182 10.1 2.2 3.4#

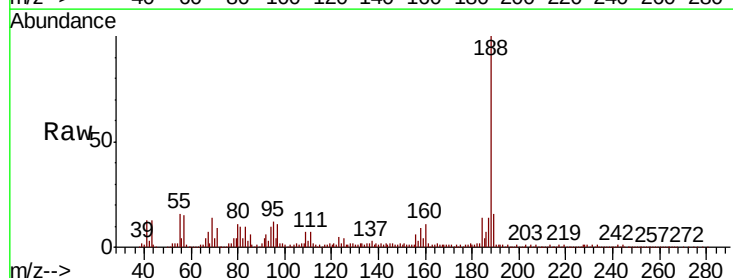


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

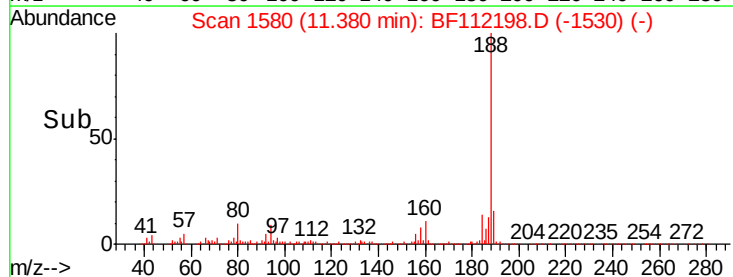
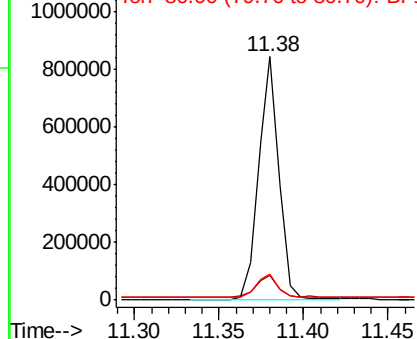


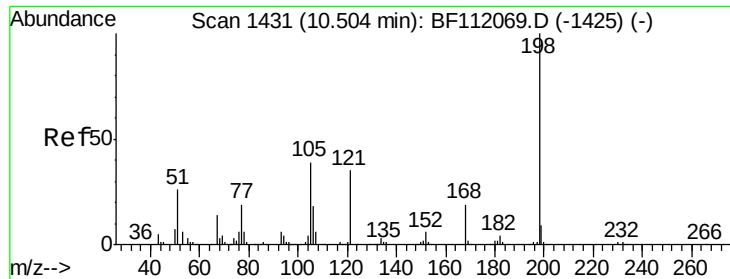
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.38 min Scan# 1580  
Delta R.T. -0.01 min  
Lab File: BF112198.D  
Acq: 23 Jan 2019 13:35

Tgt Ion:188 Resp: 706289  
Ion Ratio Lower Upper  
188 100  
94 10.1 8.2 12.2  
80 10.6 8.9 13.3



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

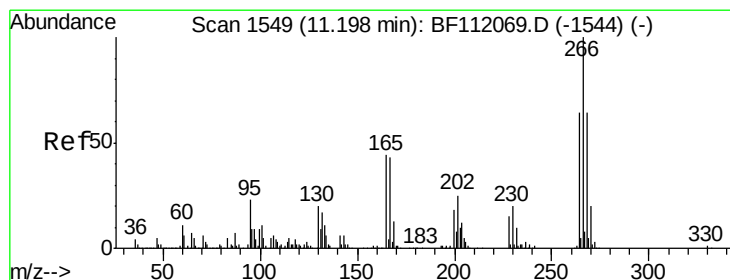
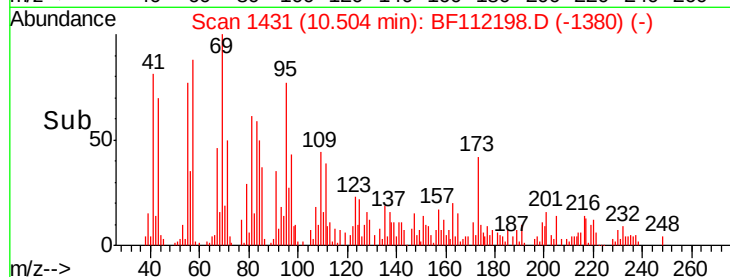
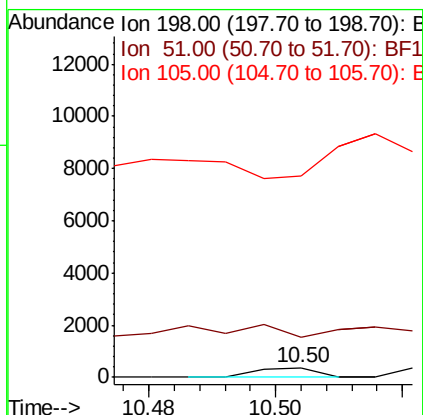
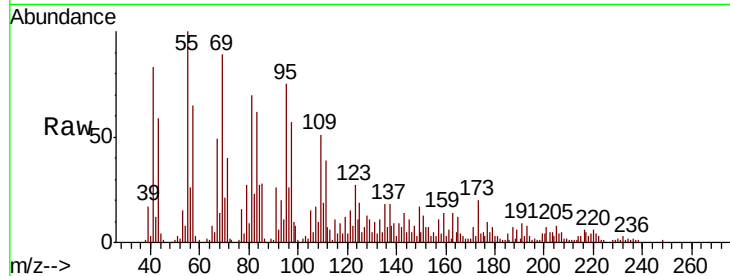




#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 10.133 ng  
 RT: 10.50 min Scan# 1431  
 Delta R.T. 0.00 min  
 Lab File: BF112198.D  
 Acq: 23 Jan 2019 13:35

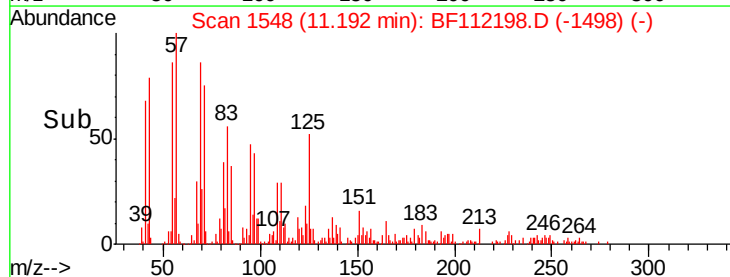
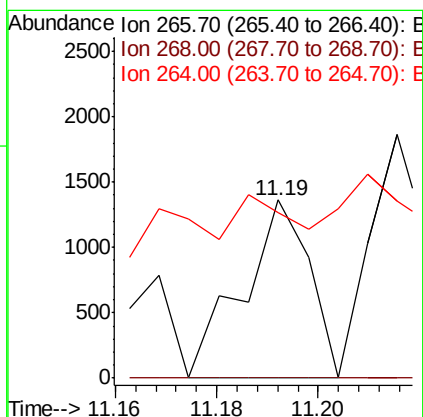
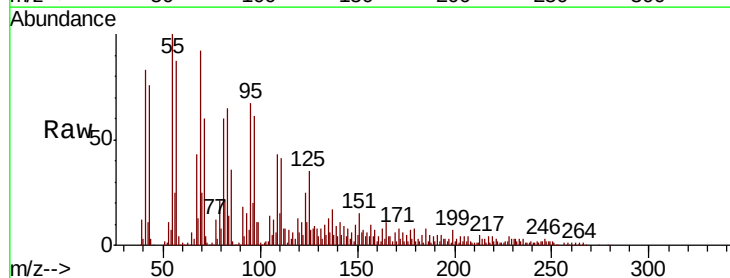
Instrument :  
 BNA\_F  
 ClientSampleId :

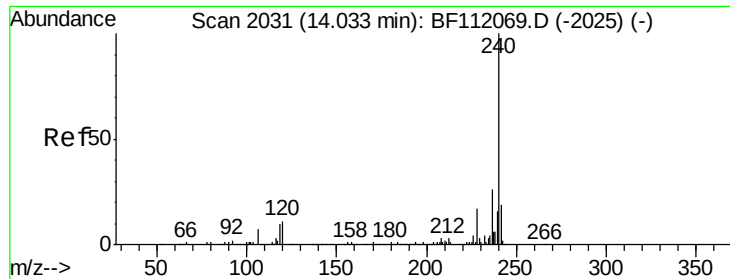
Tot Ion:198 Resp: 237  
 Ion Ratio Lower Upper  
 198 100  
 51 418.3 17.2 57.2#  
 105 2098.6 21.9 61.9#



#70  
 Pentachlorophenol  
 Concen: 6.374 ng  
 RT: 11.19 min Scan# 1548  
 Delta R.T. -0.01 min  
 Lab File: BF112198.D  
 Acq: 23 Jan 2019 13:35

Tgt Ion:266 Resp: 1235  
 Ion Ratio Lower Upper  
 266 100  
 268 0.0 51.2 76.8#  
 264 93.0 50.9 76.3#

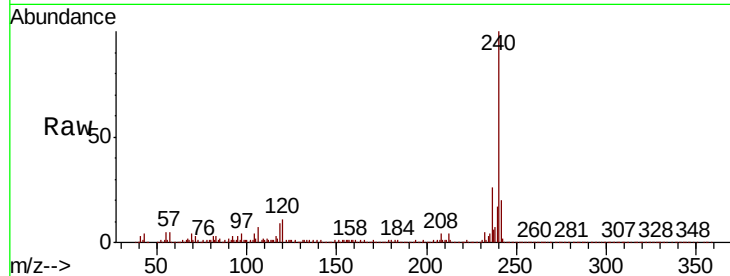




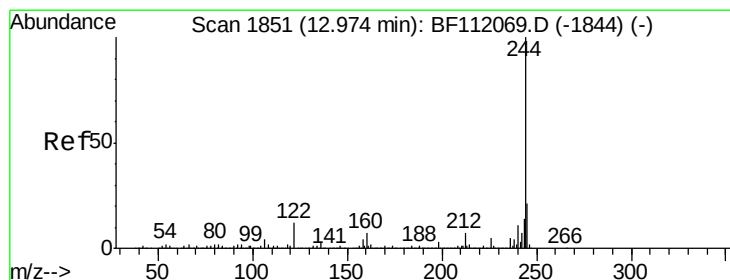
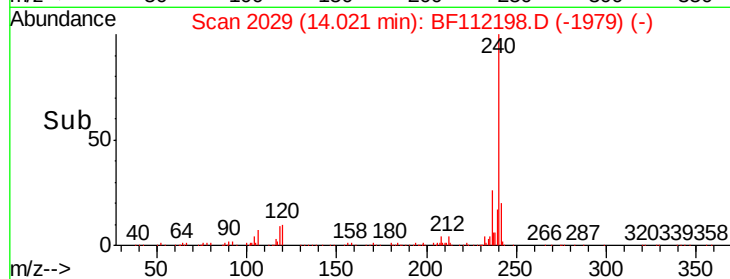
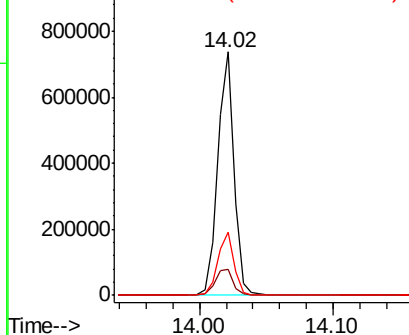
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF112198.D  
 Acq: 23 Jan 2019 13:35

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:240 Resp: 634495  
 Ion Ratio Lower Upper  
 240 100  
 120 10.6 9.0 13.6  
 236 25.9 20.7 31.1

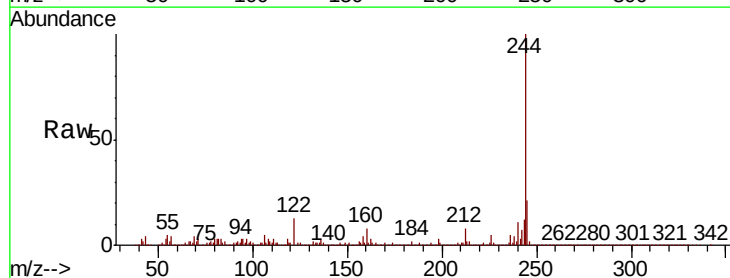


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

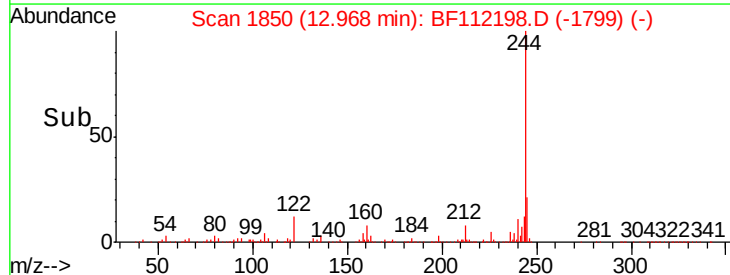
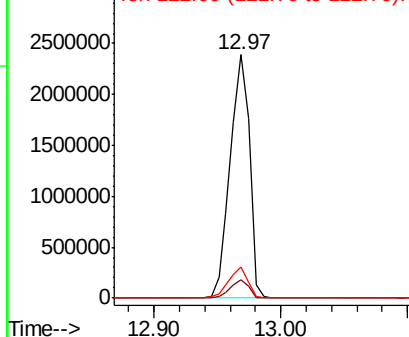


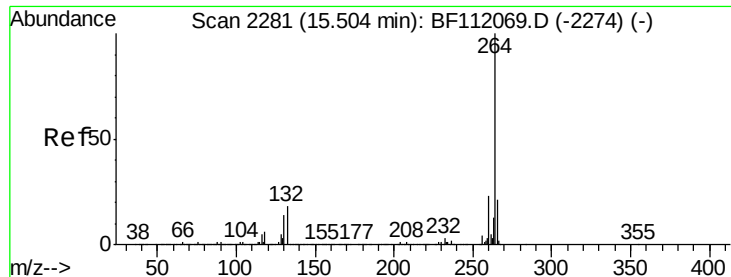
#79  
 Terphenyl-d14  
 Concen: 84.091 ng  
 RT: 12.97 min Scan# 1850  
 Delta R.T. 0.00 min  
 Lab File: BF112198.D  
 Acq: 23 Jan 2019 13:35

Tgt Ion:244 Resp: 2508032  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 5.9 8.9  
 122 12.6 9.8 14.6



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  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.49 min Scan# 2279  
Delta R.T. -0.01 min  
Lab File: BF112198.D  
Acq: 23 Jan 2019 13:35

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 18.2  | 27.2  |
| 265     | 21.1  | 17.0  | 25.4  |

