

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052019\  
 Data File : BF114445.D  
 Acq On : 21 May 2019 2:43  
 Operator : JU/SJ  
 Sample : K2943-13  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 21 11:14:14 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 20 04:47:40 2019  
 Response via : Initial Calibration

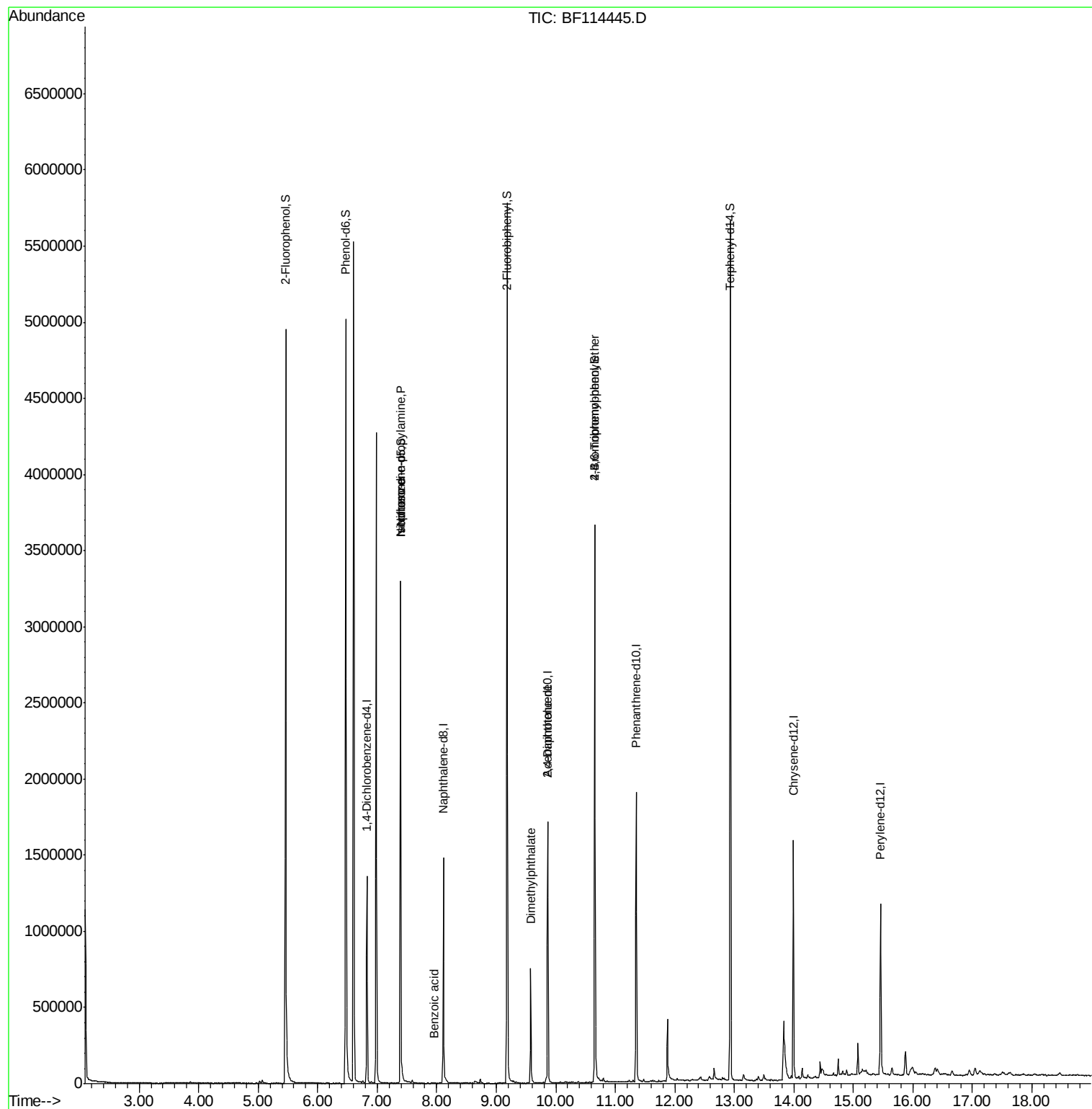
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.83  | 152  | 188497   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.11  | 136  | 717633   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.86  | 164  | 336087   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.35 | 188  | 691085   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 13.99 | 240  | 529383   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 15.46 | 264  | 511403   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 1401608  | 119.66 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 1835155  | 132.47 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 1128157  | 88.22  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.66 | 330  | 449424   | 129.35 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.19  | 172  | 1906227  | 85.80  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.93 | 244  | 2026987  | 78.93  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 149159   | 16.986 | ng    | # 74     |
| 25) Isophorone                 | 7.39  | 82   | 1128148  | 47.570 | ng    | # 64     |
| 32) Benzoic acid               | 7.96  | 122  | 264      | 7.053  | ng    | # 38     |
| 50) Dimethylphthalate          | 9.58  | 163  | 347615   | 14.089 | ng    | 99       |
| 57) 2,4-Dinitrotoluene         | 9.86  | 165  | 42784    | 5.760  | ng    | # 25     |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 29218    | 3.840  | ng    | # 1      |

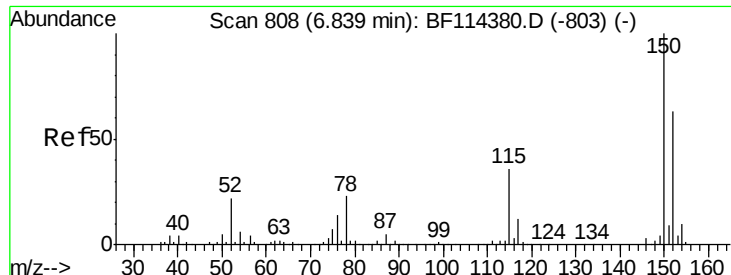
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
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Quant Time: May 21 11:14:14 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 20 04:47:40 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.83 min Scan# 806

Delta R.T. -0.01 min

Lab File: BF114445.D

Acq: 21 May 2019 2:43

Instrument :

BNA\_F

ClientSampled :

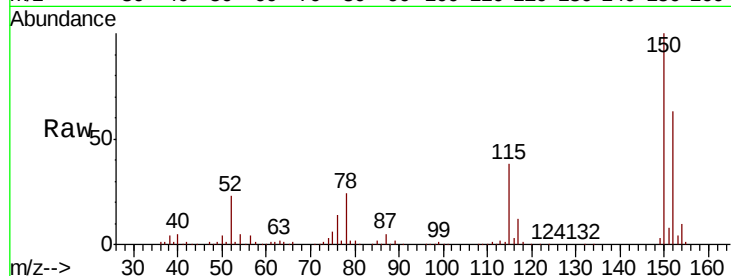
Tot Ion:152 Resp: 188497

Ion Ratio Lower Upper

152 100

150 157.6 124.3 186.5

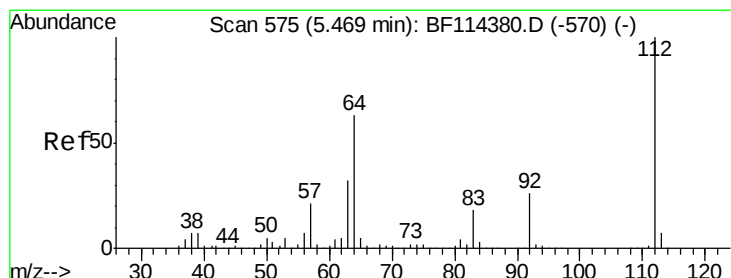
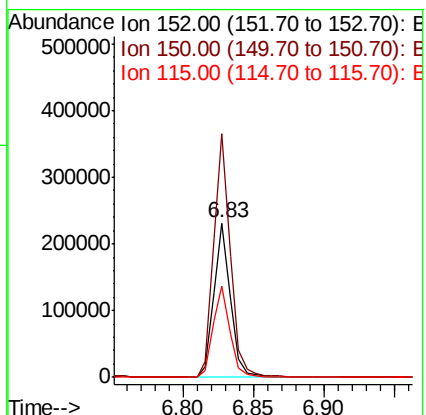
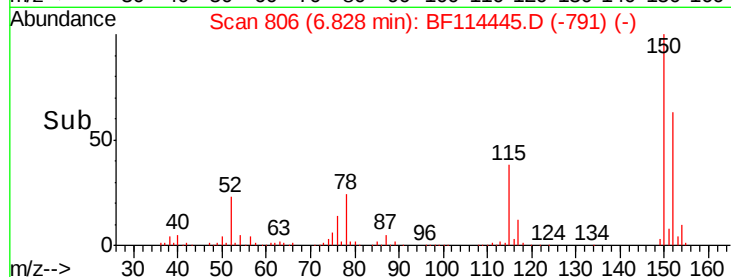
115 59.3 49.1 73.7



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: 119.660 ng

RT: 5.46 min Scan# 574

Delta R.T. -0.01 min

Lab File: BF114445.D

Acq: 21 May 2019 2:43

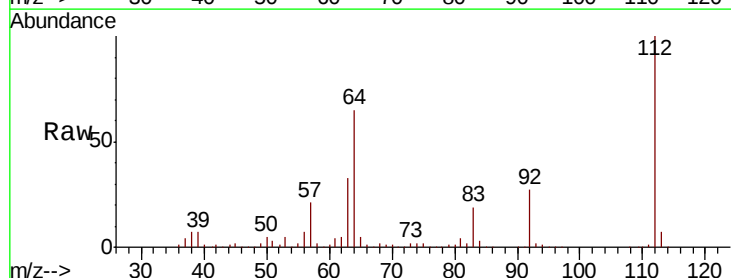
Tgt Ion:112 Resp: 1401608

Ion Ratio Lower Upper

112 100

64 65.1 49.0 73.6

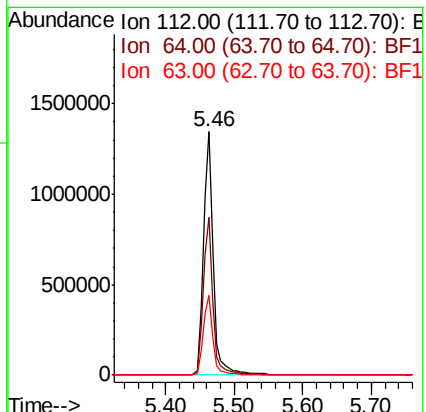
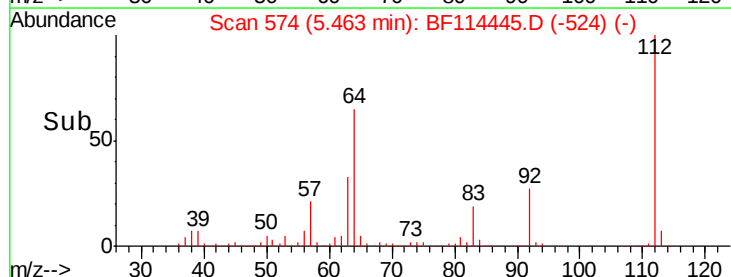
63 33.0 24.6 37.0

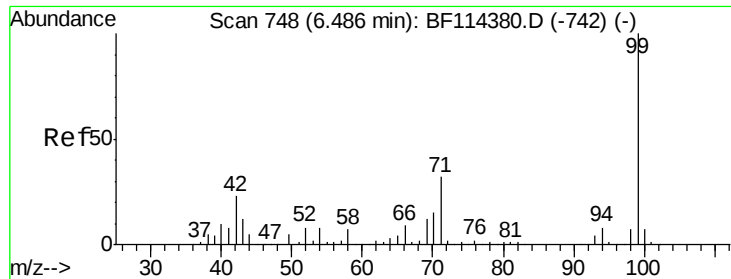


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 132.467 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF114445.D

Acq: 21 May 2019 2:43

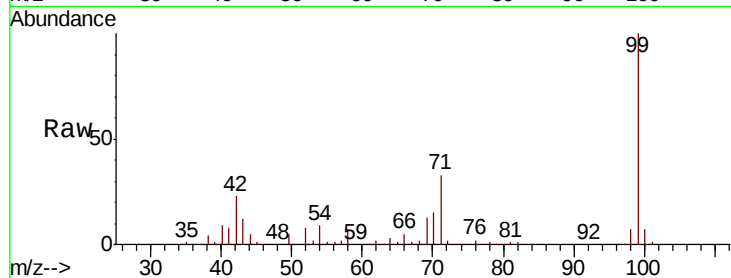
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1835155

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 23.0  | 17.9  | 26.9  |
| 71  | 33.4  | 26.2  | 39.2  |

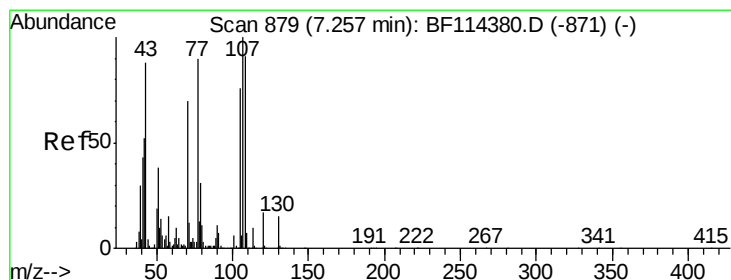
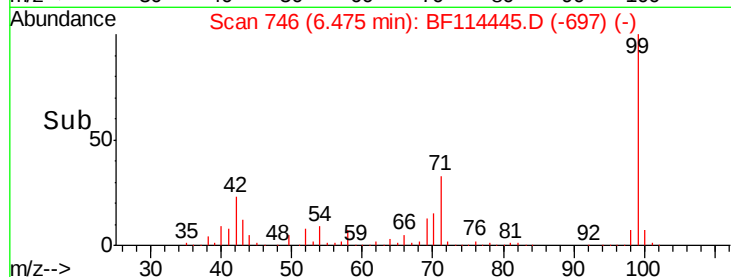
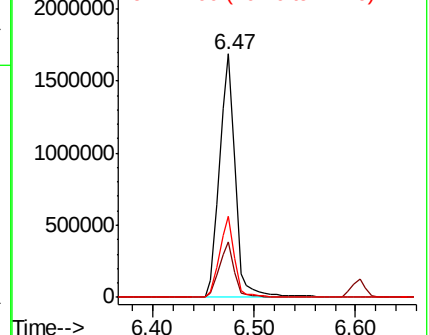


Abundance

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: 16.986 ng

RT: 7.39 min Scan# 902

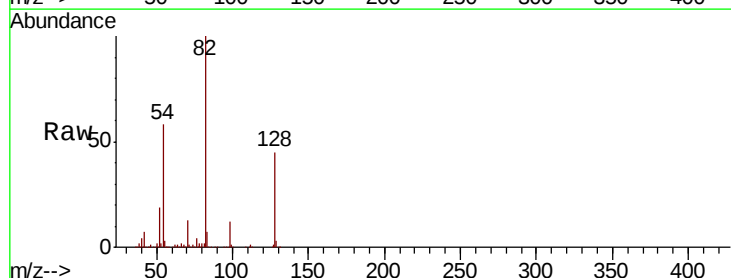
Delta R.T. 0.14 min

Lab File: BF114445.D

Acq: 21 May 2019 2:43

Tgt Ion: 70 Resp: 149159

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 55.3  | 58.6  | 87.8# |
| 101 | 0.0   | 7.8   | 11.8# |
| 130 | 2.2   | 17.1  | 25.7# |



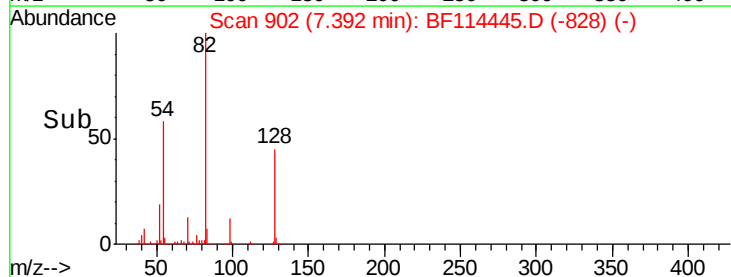
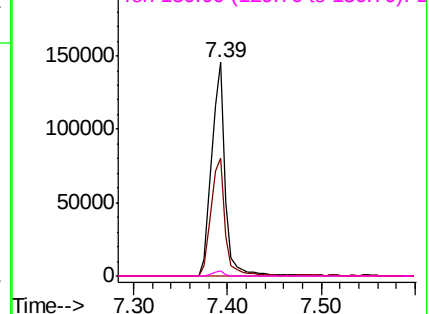
Abundance

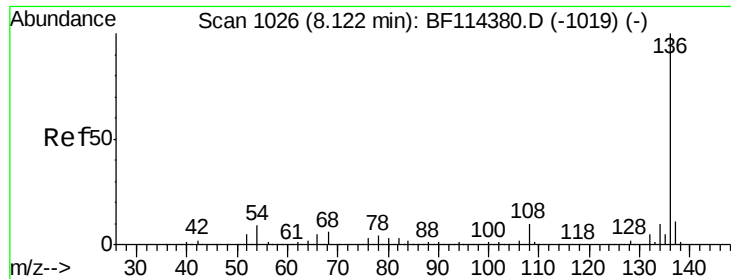
Ion 70.00 (69.70 to 70.70): BF1

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

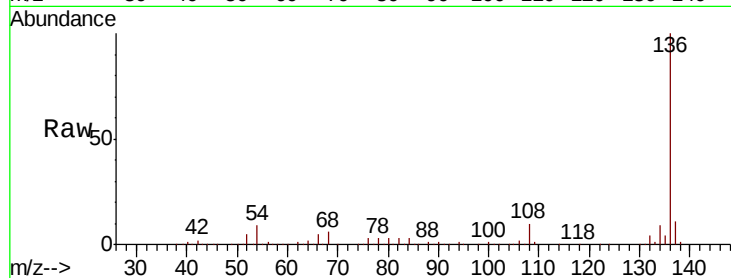




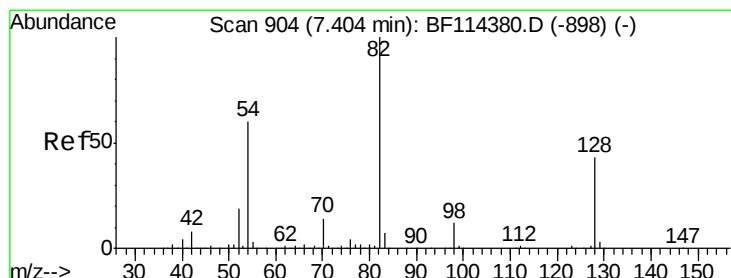
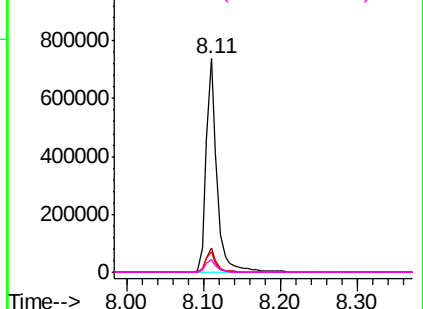
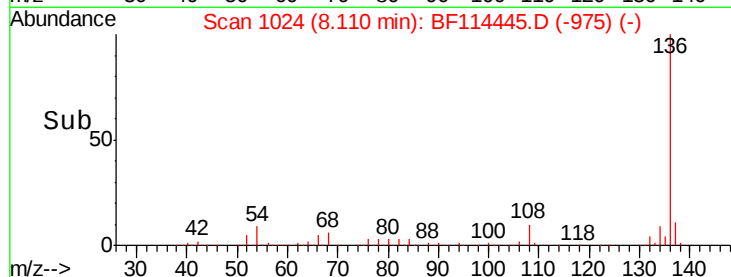
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.11 min Scan# 1024  
Delta R.T. -0.01 min  
Lab File: BF114445.D  
Acq: 21 May 2019 2:43

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 717633   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.2  | 8.8 13.2 |
| 54          | 9.3   | 7.8 11.8 |
| 68          | 5.9   | 5.1 7.7  |

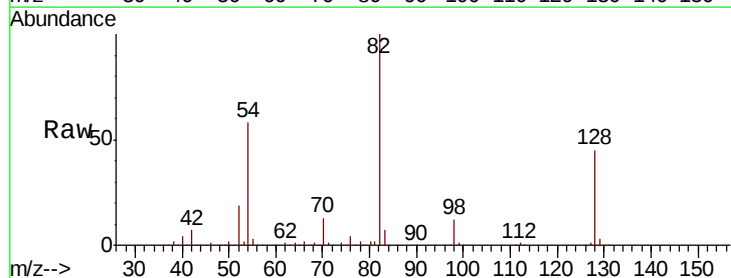


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

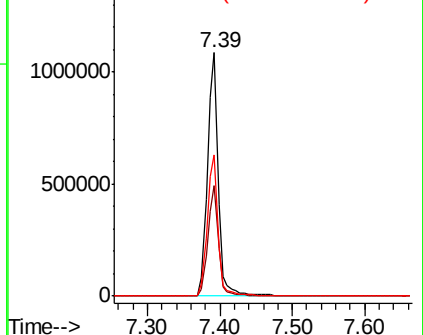
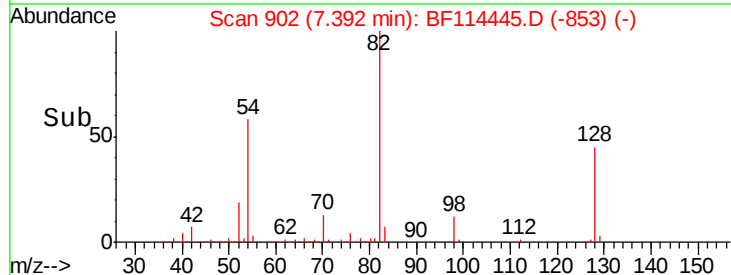


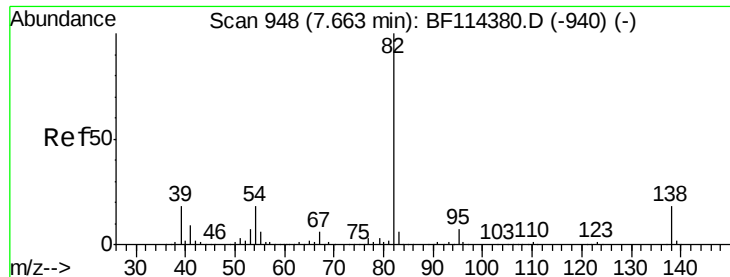
#23  
Nitrobenzene-d5  
Concen: 88.224 ng  
RT: 7.39 min Scan# 902  
Delta R.T. -0.01 min  
Lab File: BF114445.D  
Acq: 21 May 2019 2:43

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 1128157   |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 45.5  | 35.5 53.3 |
| 54          | 58.0  | 48.5 72.7 |



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: 47.570 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.27 min

Lab File: BF114445.D

Acq: 21 May 2019 2:43

Instrument :

BNA\_F

ClientSampled :

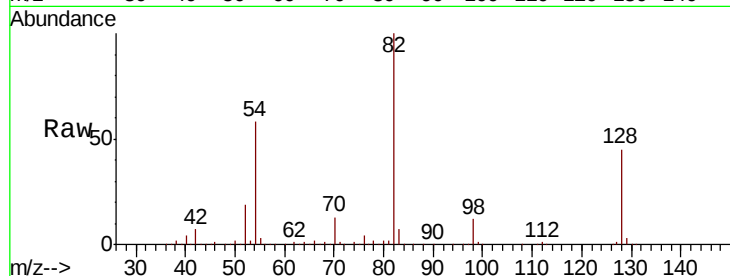
Tot Ion: 82 Resp: 1128148

Ion Ratio Lower Upper

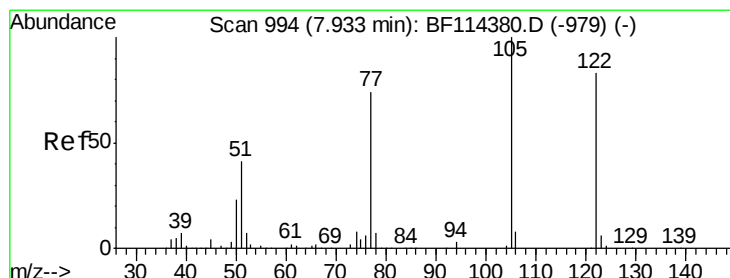
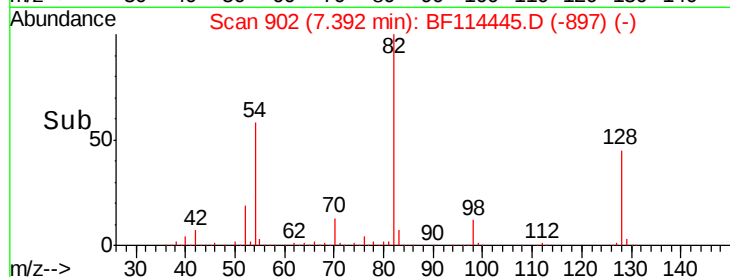
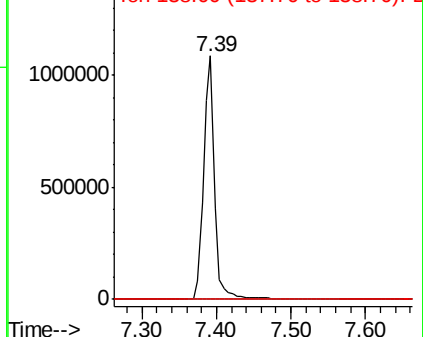
82 100

95 0.0 5.6 8.4#

138 0.0 14.8 22.2#



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: 7.053 ng

RT: 7.96 min Scan# 998

Delta R.T. 0.02 min

Lab File: BF114445.D

Acq: 21 May 2019 2:43

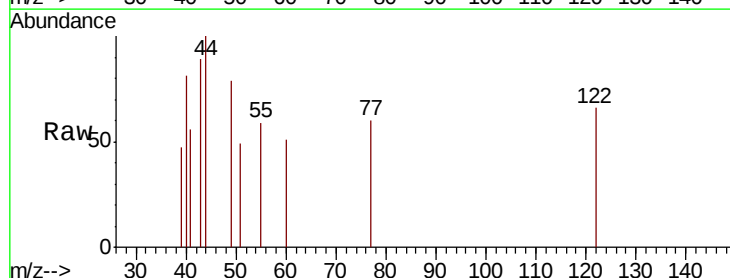
Tgt Ion: 122 Resp: 264

Ion Ratio Lower Upper

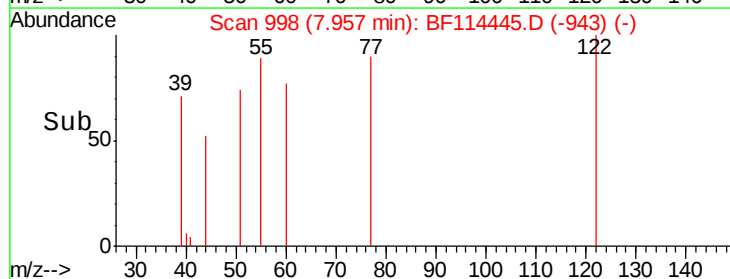
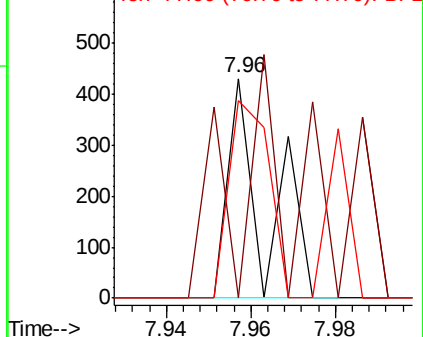
122 100

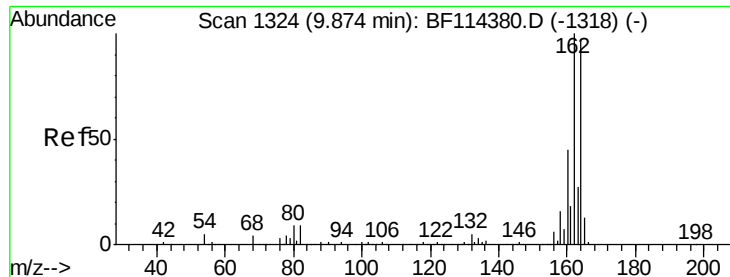
105 0.0 99.9 139.9#

77 90.0 69.4 109.4



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

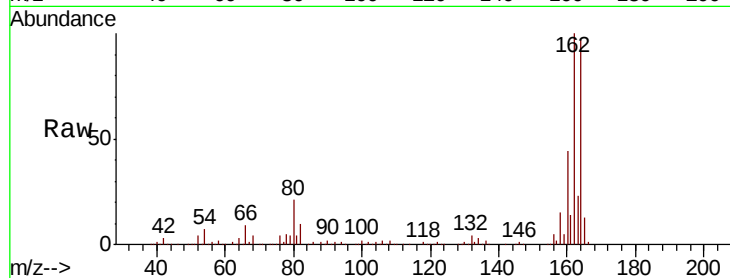




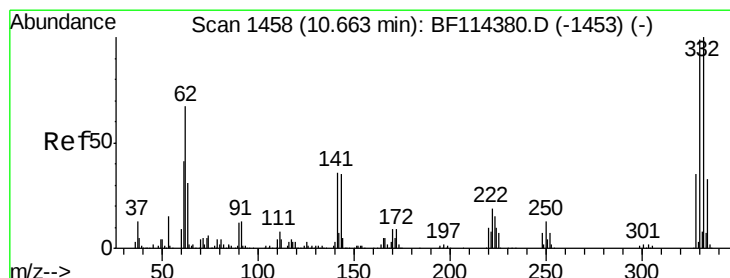
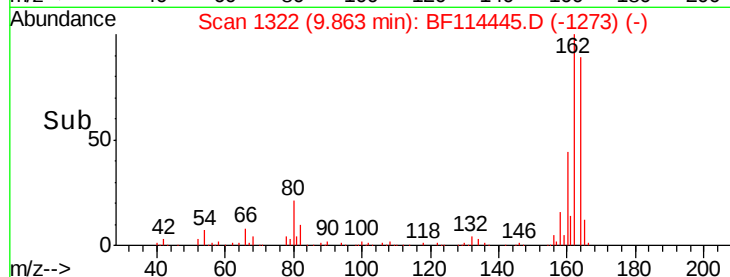
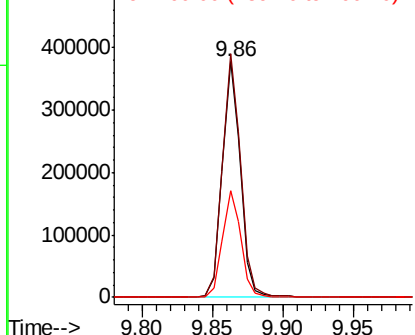
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.86 min Scan# 1322  
 Delta R.T. -0.01 min  
 Lab File: BF114445.D  
 Acq: 21 May 2019 2:43

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.5 | 80.6  | 120.8 |
| 160     | 45.4  | 36.5  | 54.7  |

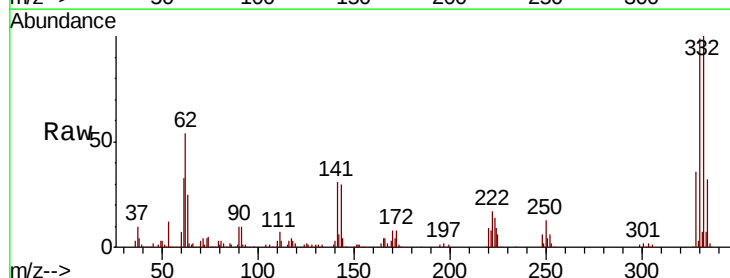


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

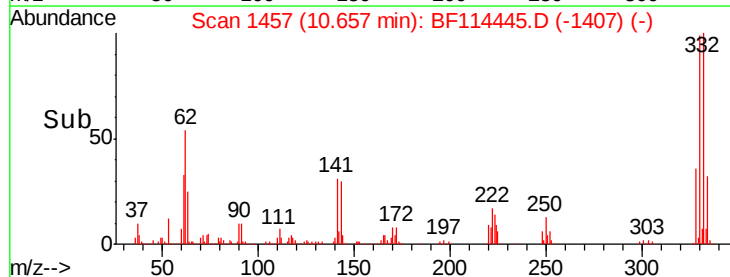
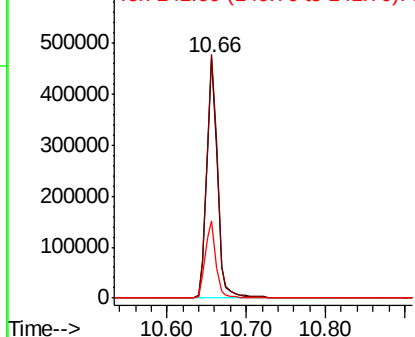


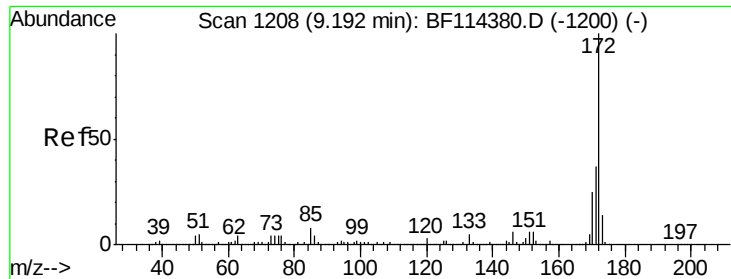
#42  
 2,4,6-Tribromophenol  
 Concen: 129.346 ng  
 RT: 10.66 min Scan# 1457  
 Delta R.T. -0.01 min  
 Lab File: BF114445.D  
 Acq: 21 May 2019 2:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 102.4 | 81.4  | 122.2 |
| 141     | 32.2  | 26.6  | 40.0  |



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

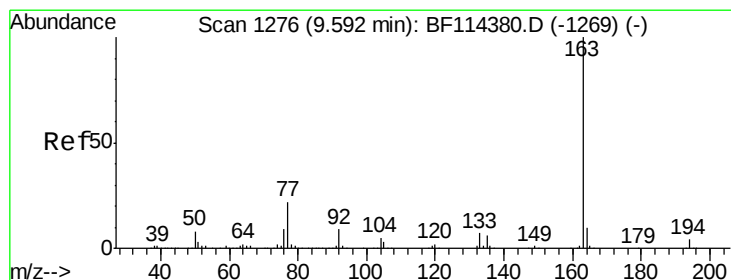
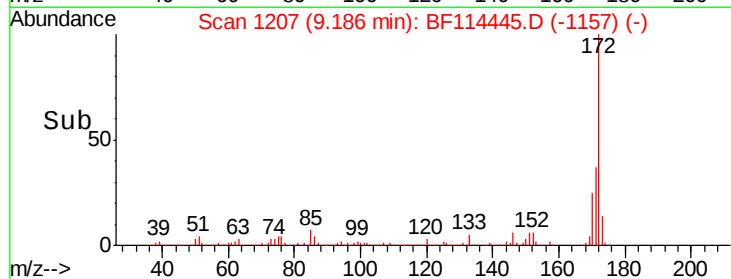
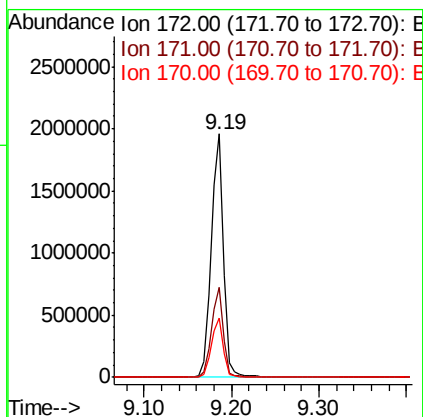
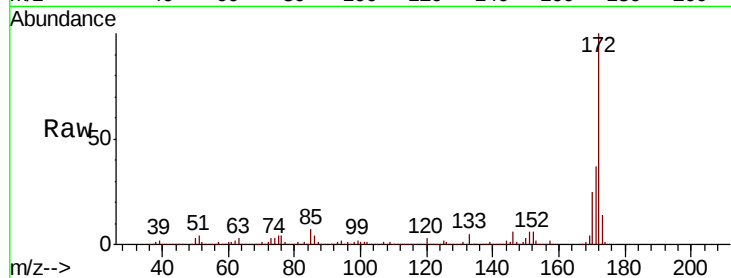




#45  
2-Fluorobiphenyl  
Concen: 85.796 ng  
RT: 9.19 min Scan# 1207  
Delta R.T. -0.01 min  
Lab File: BF114445.D  
Acq: 21 May 2019 2:43

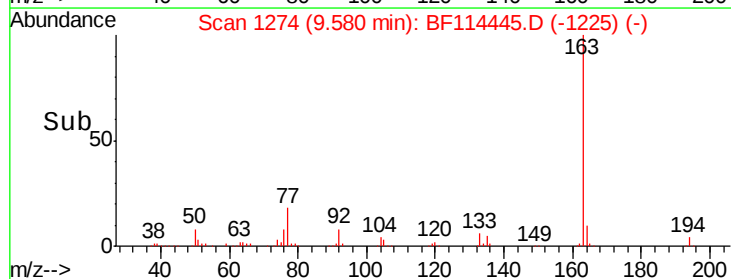
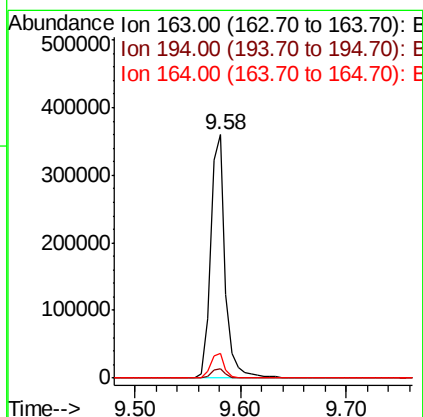
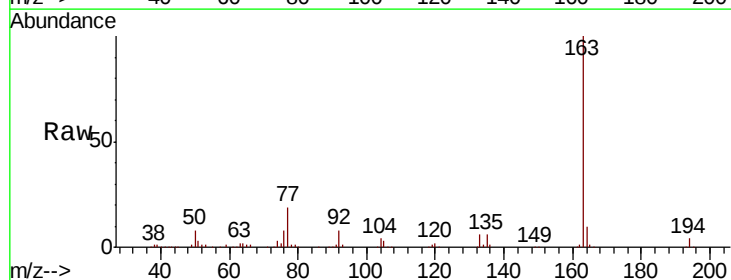
Instrument :  
BNA\_F  
ClientSampled :

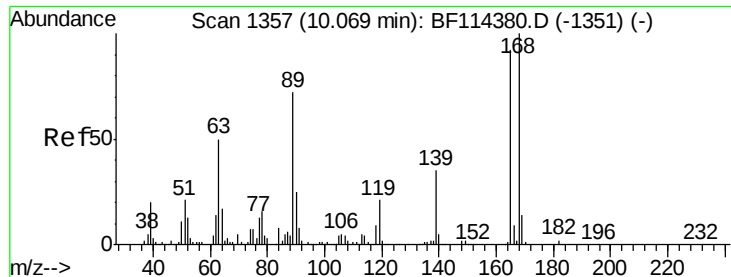
Tot Ion:172 Resp: 1906227  
Ion Ratio Lower Upper  
172 100  
171 36.8 30.7 46.1  
170 24.5 20.5 30.7



#50  
Dimethylphthalate  
Concen: 14.089 ng  
RT: 9.58 min Scan# 1274  
Delta R.T. -0.01 min  
Lab File: BF114445.D  
Acq: 21 May 2019 2:43

Tgt Ion:163 Resp: 347615  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.4 5.0  
164 9.9 8.2 12.2

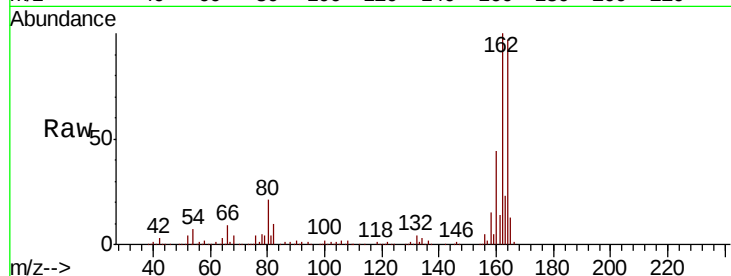




#57  
 2,4-Dinitrotoluene  
 Concen: 5.760 ng  
 RT: 9.86 min Scan# 1322  
 Delta R.T. -0.21 min  
 Lab File: BF114445.D  
 Acq: 21 May 2019 2:43

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 35.5  | 53.3# |
| 89      | 1.8   | 55.2  | 82.8# |
| 182     | 0.0   | 2.2   | 3.2#  |

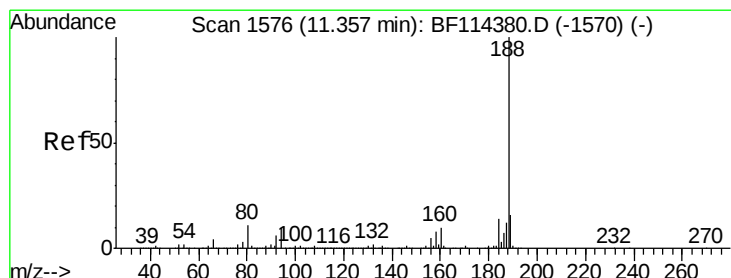
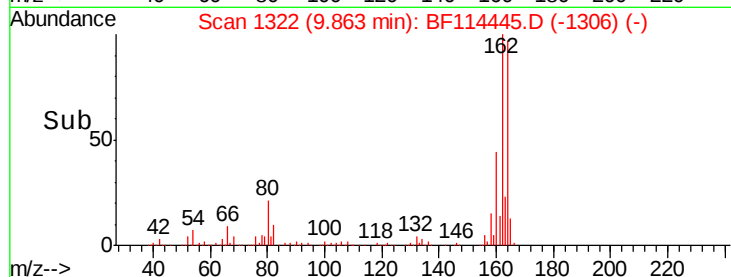
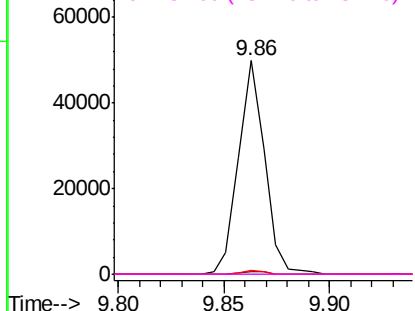


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

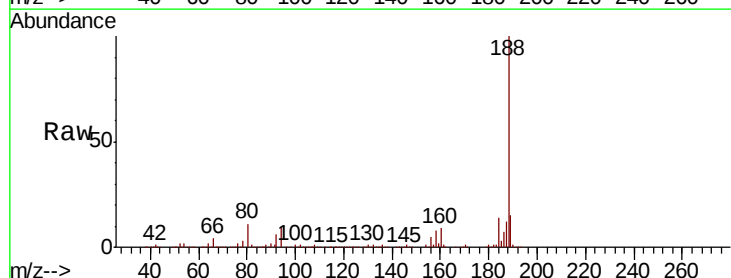
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.35 min Scan# 1575  
 Delta R.T. -0.01 min  
 Lab File: BF114445.D  
 Acq: 21 May 2019 2:43

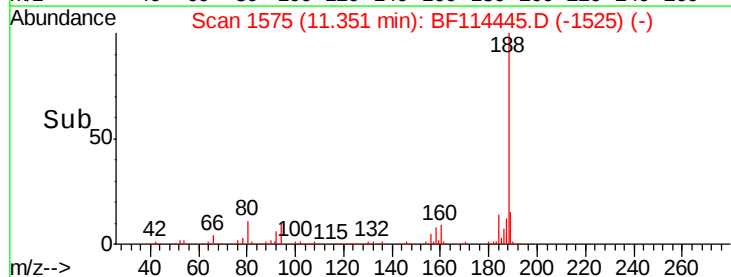
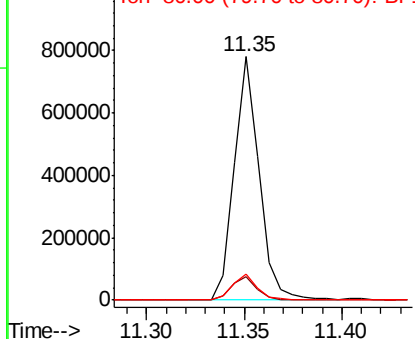
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.7   | 8.4   | 12.6  |
| 80      | 10.5  | 9.2   | 13.8  |

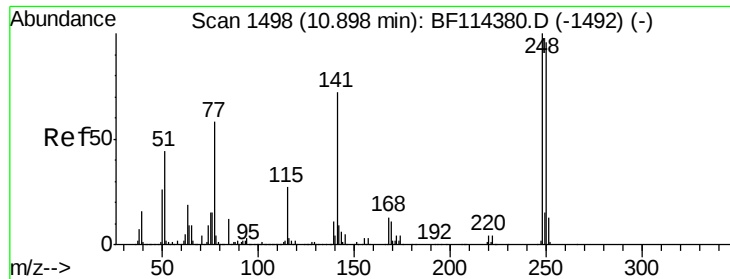


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#67

4-Bromophenyl-phenylether

Concen: 3.840 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.24 min

Lab File: BF114445.D

Acq: 21 May 2019 2:43

Instrument :

BNA\_F

ClientSampleId :

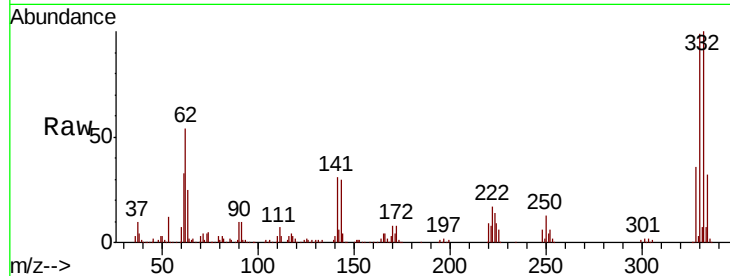
Tot Ion:248 Resp: 29218

Ion Ratio Lower Upper

248 100

250 197.1 77.4 116.2#

141 484.2 55.6 83.4#

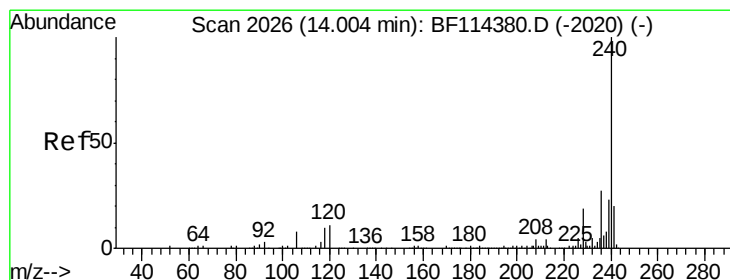
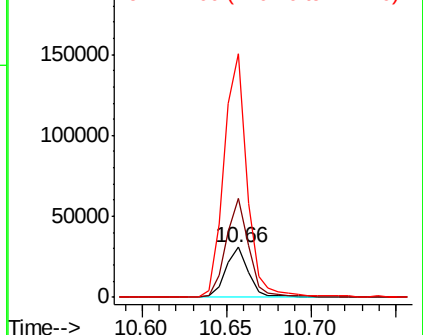
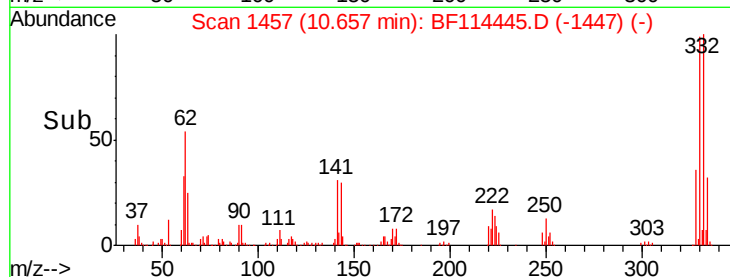


Abundance

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: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF114445.D

Acq: 21 May 2019 2:43

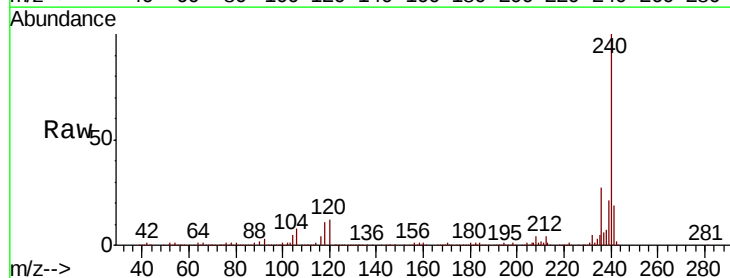
Tgt Ion:240 Resp: 529383

Ion Ratio Lower Upper

240 100

120 12.2 8.3 12.5

236 27.2 20.8 31.2

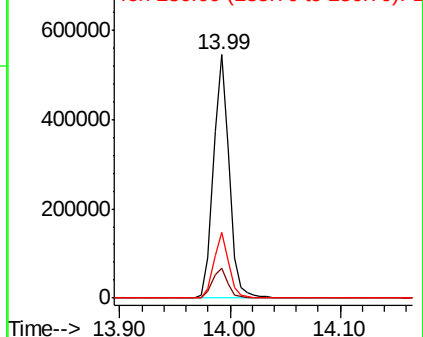
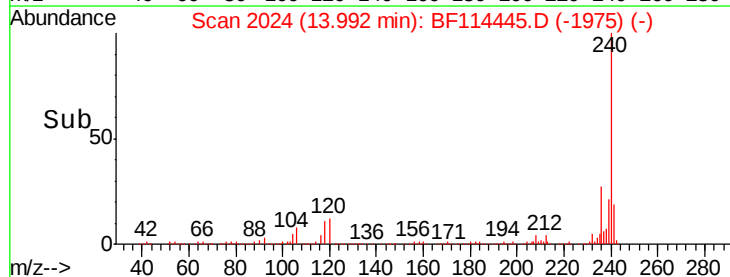


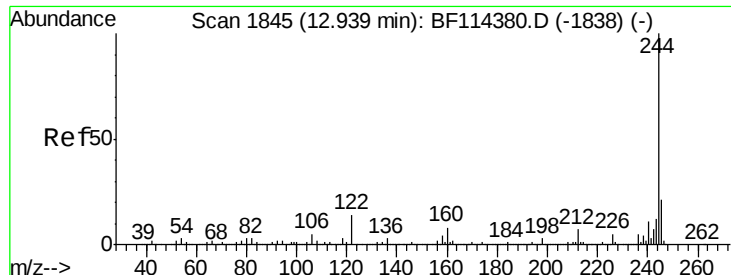
Abundance

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



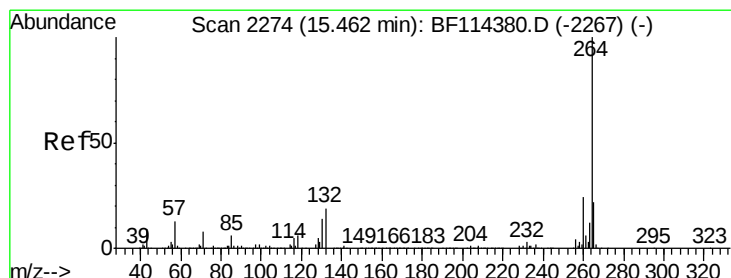
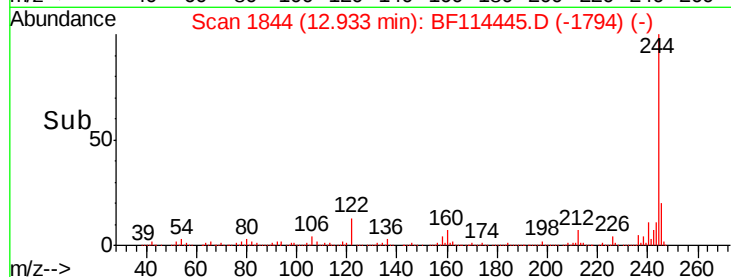
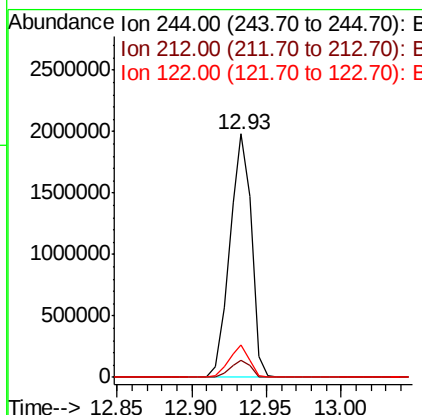
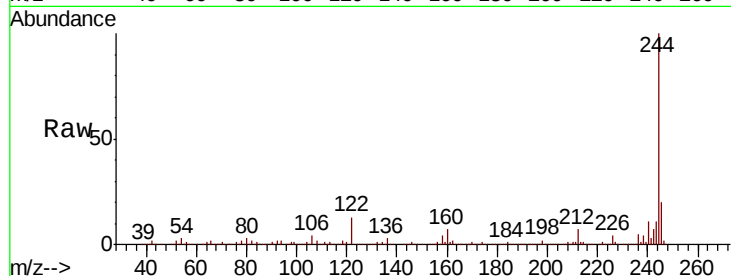


#79  
 Terphenyl-d14  
 Concen: 78.931 ng  
 RT: 12.93 min Scan# 1844  
 Delta R.T. -0.01 min  
 Lab File: BF114445.D  
 Acq: 21 May 2019 2:43

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:244 Resp: 2026987  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.3   | 5.8   | 8.6   |
| 122 | 13.4  | 9.4   | 14.2  |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.46 min Scan# 2273  
 Delta R.T. -0.01 min  
 Lab File: BF114445.D  
 Acq: 21 May 2019 2:43

Tgt Ion:264 Resp: 511403  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.8  | 19.4  | 29.0  |
| 265 | 22.2  | 16.9  | 25.3  |

