

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032019\  
 Data File : BF113169.D  
 Acq On : 20 Mar 2019 14:16  
 Operator : JU/SJ  
 Sample : K1972-02  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 21 12:20:40 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 21 12:13:22 2019  
 Response via : Initial Calibration

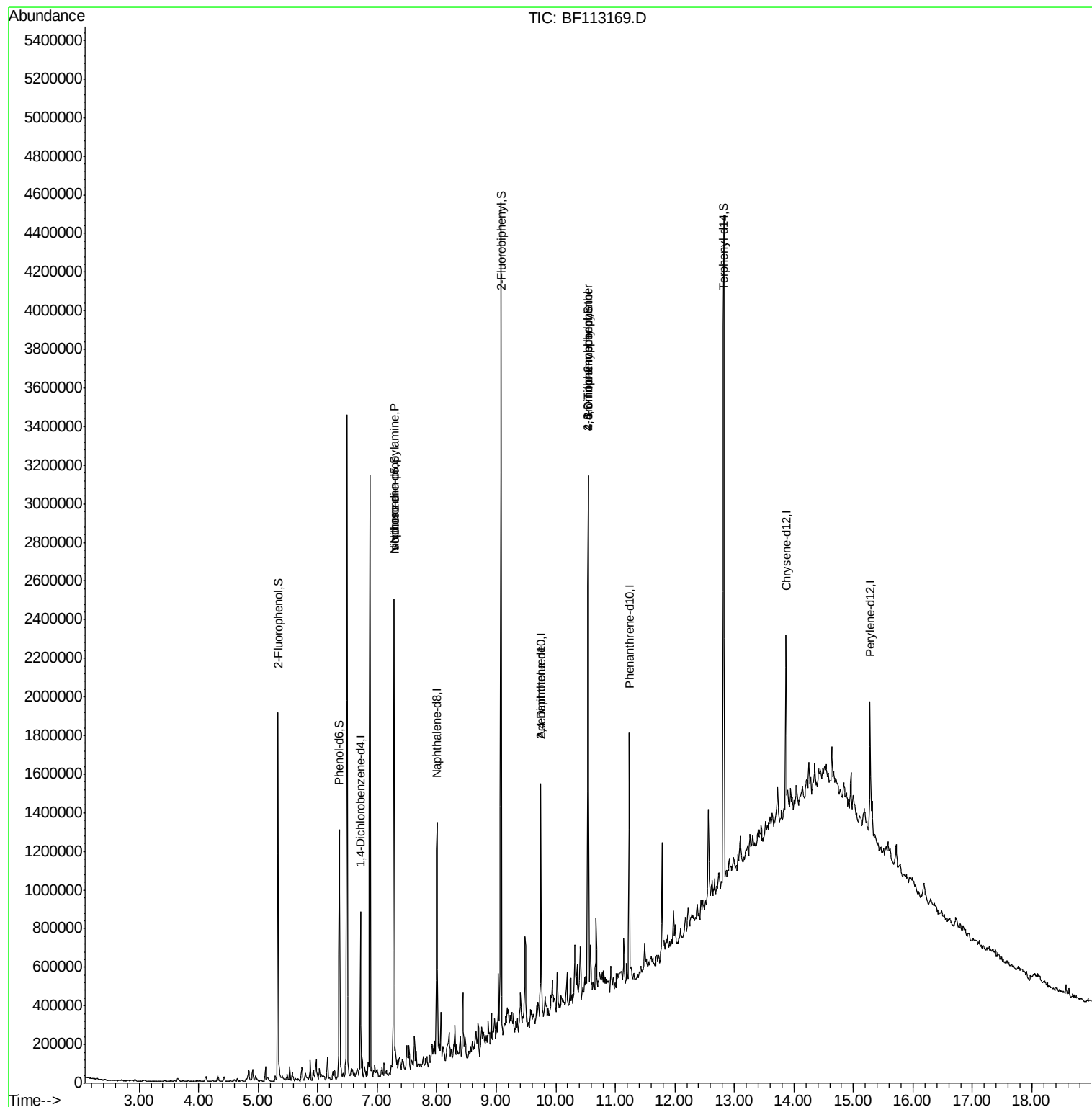
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 128537   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.00  | 136  | 564596   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.75  | 164  | 231110   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.23 | 188  | 463886   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 13.87 | 240  | 338304   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.28 | 264  | 358273   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.33  | 112  | 550468   | 66.62  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.36  | 99   | 458810   | 44.20  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 886973   | 94.00  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.55 | 330  | 394712   | 160.88 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.08  | 172  | 1421176  | 110.52 | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.82 | 244  | 1364379  | 78.18  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 122389   | 18.617 | ng    | # 76     |
| 25) Isophorone                 | 7.29  | 82   | 856970   | 42.159 | ng    | # 65     |
| 57) 2,4-Dinitrotoluene         | 9.75  | 165  | 29637    | 6.719  | ng    | # 24     |
| 65) 4,6-Dinitro-2-methylphenol | 10.55 | 198  | 735      | 4.961  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.55 | 248  | 23220    | 4.752  | ng    | # 1      |

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

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Misc :  
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Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Mar 21 12:20:40 2019  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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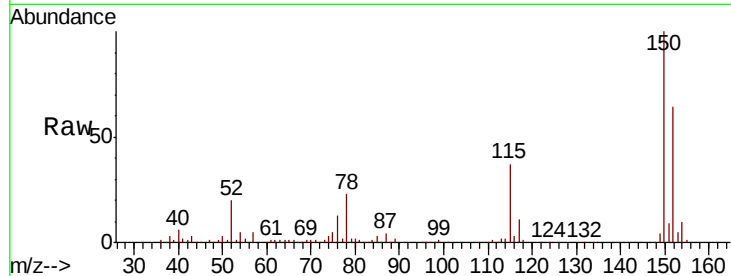


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 788  
Delta R.T. -0.00 min  
Lab File: BF113169.D  
Acq: 20 Mar 2019 14:16

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.5 | 123.0 | 184.6 |
| 115     | 57.1  | 45.9  | 68.9  |

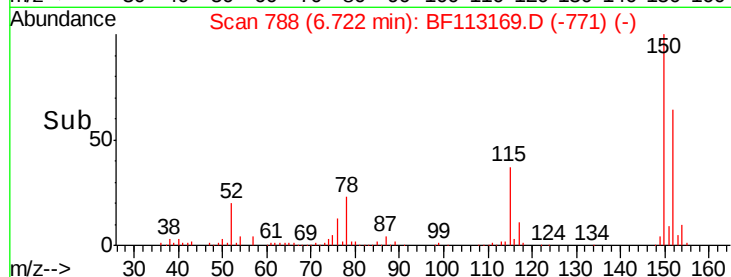
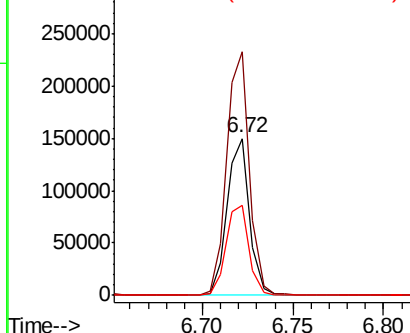


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

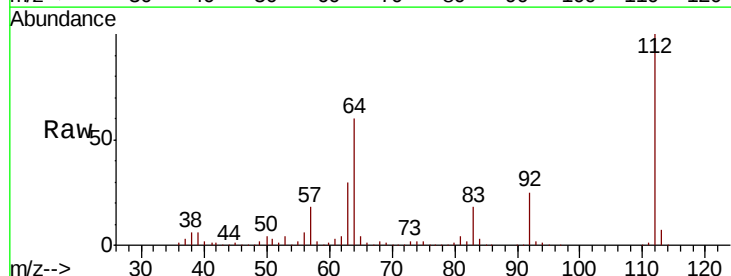
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 66.617 ng  
RT: 5.33 min Scan# 552  
Delta R.T. -0.00 min  
Lab File: BF113169.D  
Acq: 20 Mar 2019 14:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.6  | 49.3  | 73.9  |
| 63      | 30.4  | 25.4  | 38.2  |

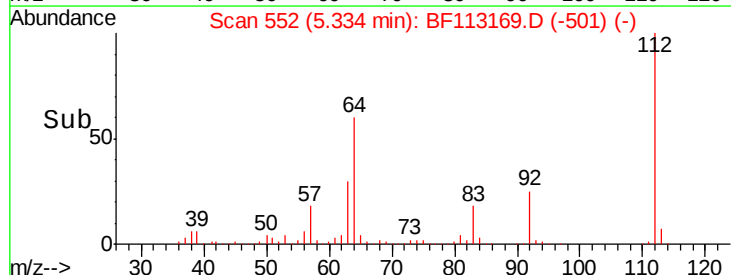
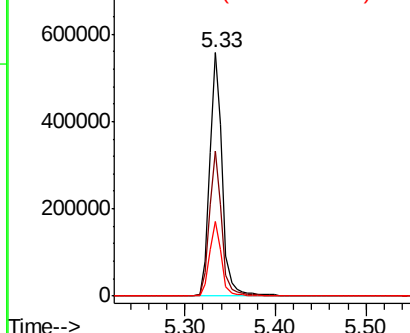


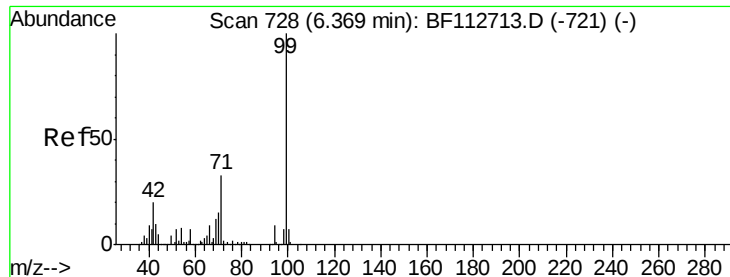
Abundance

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: 44.202 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113169.D

Acq: 20 Mar 2019 14:16

Instrument :

BNA\_F

ClientSampleId :

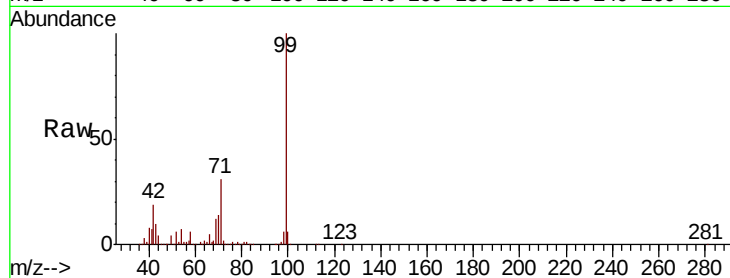
Tot Ion: 99 Resp: 458810

Ion Ratio Lower Upper

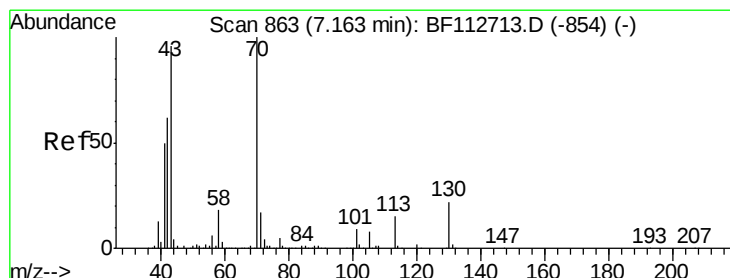
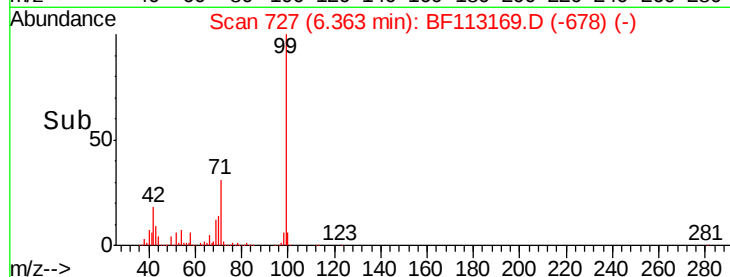
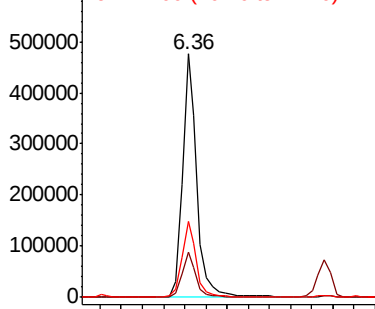
99 100

42 18.5 15.2 22.8

71 31.5 25.7 38.5



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: 18.617 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.14 min

Lab File: BF113169.D

Acq: 20 Mar 2019 14:16

Tgt Ion: 70 Resp: 122389

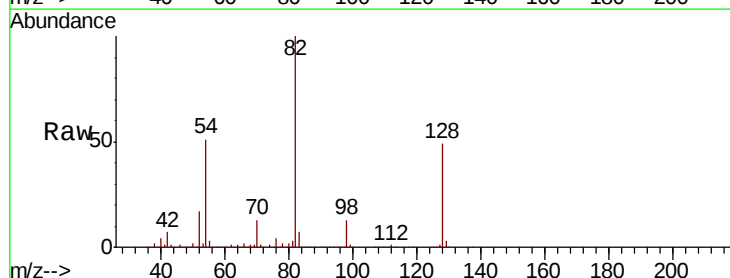
Ion Ratio Lower Upper

70 100

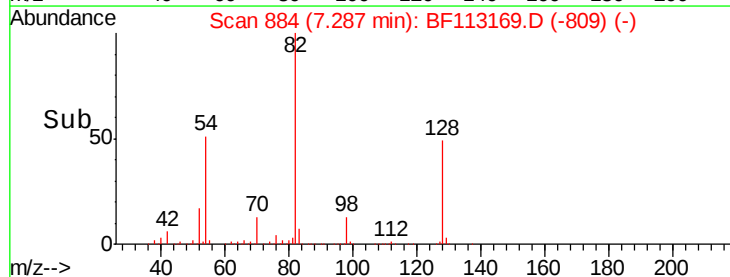
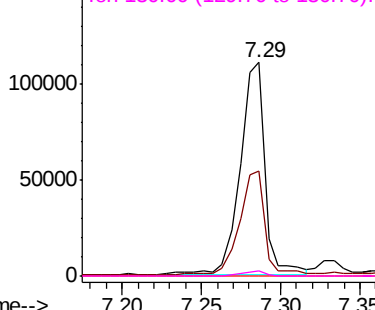
42 48.9 50.4 75.6#

101 0.0 7.5 11.3#

130 2.2 17.0 25.6#



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

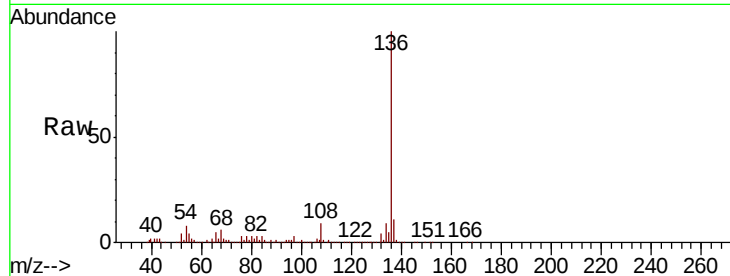




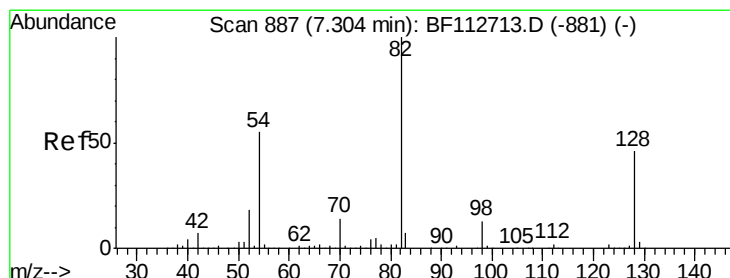
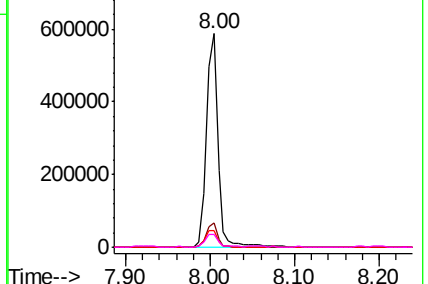
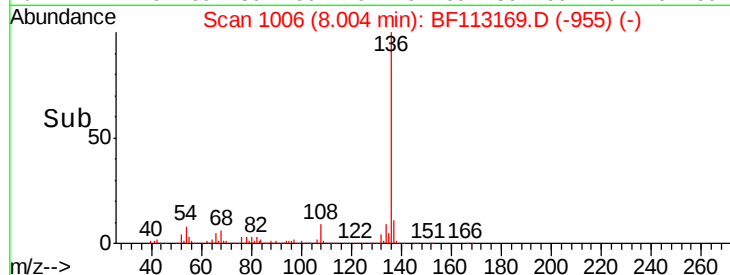
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1006  
Delta R.T. -0.00 min  
Lab File: BF113169.D  
Acq: 20 Mar 2019 14:16

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 564596   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.1  | 8.9 13.3 |
| 54          | 7.8   | 7.0 10.6 |
| 68          | 6.0   | 5.0 7.4  |

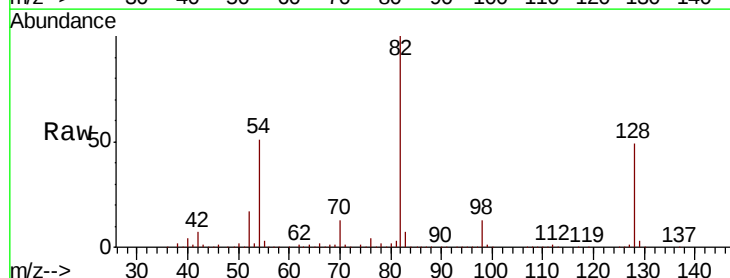


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

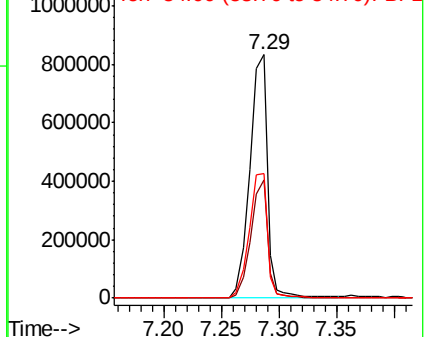
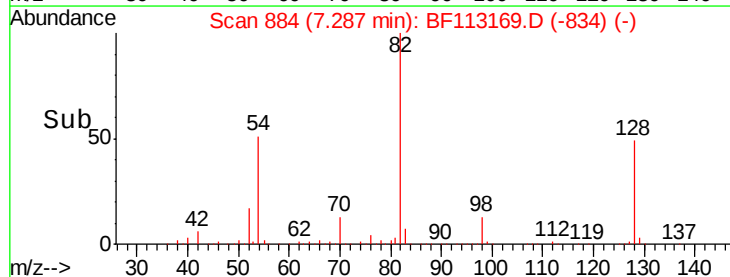


#23  
Nitrobenzene-d5  
Concen: 94.005 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF113169.D  
Acq: 20 Mar 2019 14:16

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 886973    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 48.6  | 37.9 56.9 |
| 54          | 51.1  | 41.2 61.8 |



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

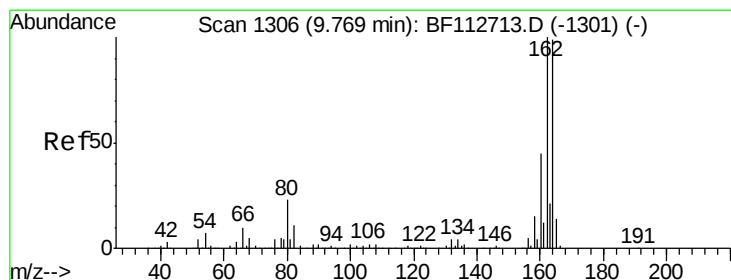
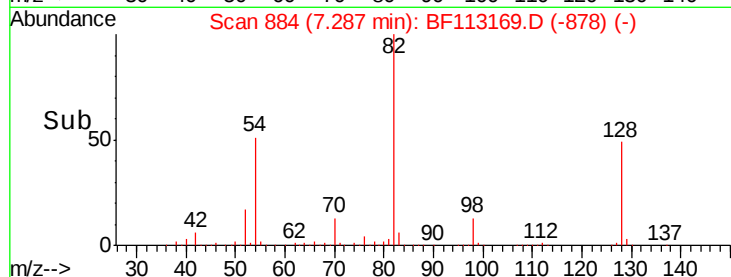
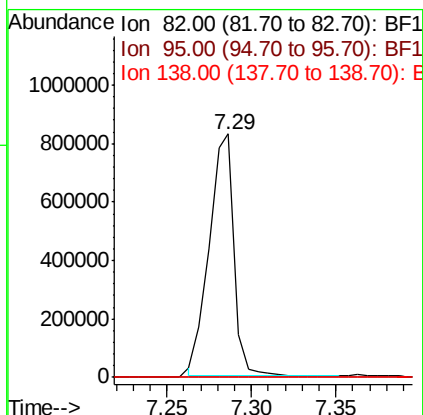
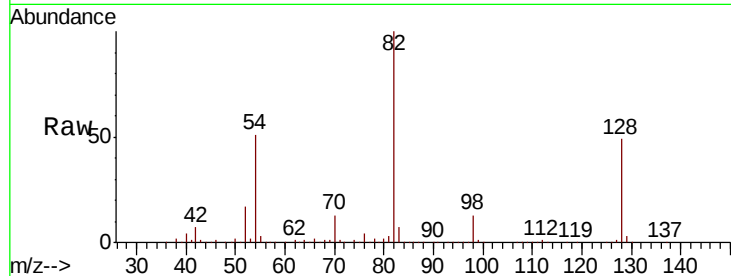




#25  
Isophorone  
Concen: 42.159 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.26 min  
Lab File: BF113169.D  
Acq: 20 Mar 2019 14:16

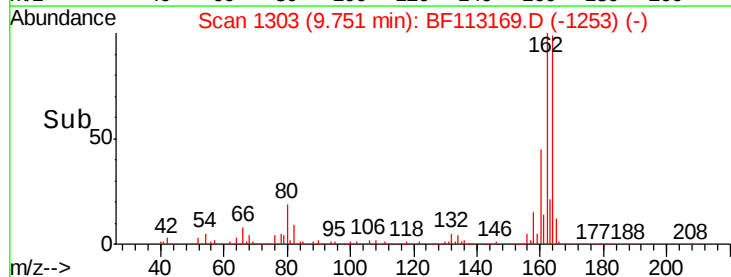
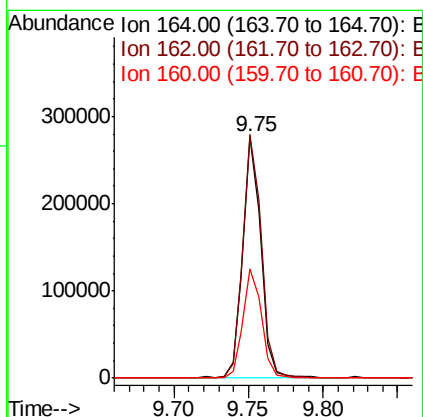
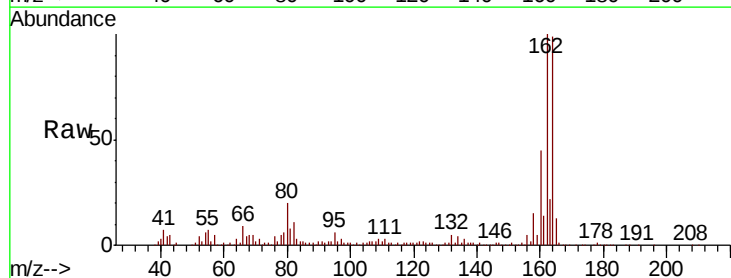
Instrument :  
BNA\_F  
ClientSampleId :

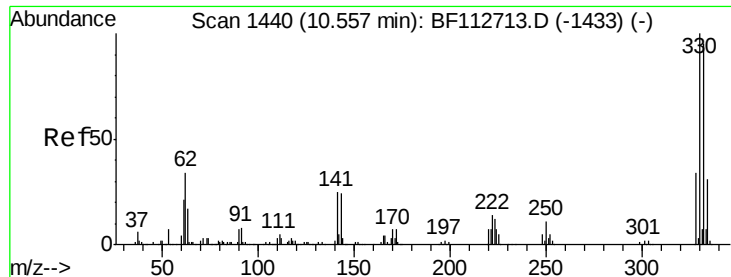
Tot Ion: 82 Resp: 856970  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.6 8.4#  
138 0.0 14.5 21.7#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.75 min Scan# 1303  
Delta R.T. -0.01 min  
Lab File: BF113169.D  
Acq: 20 Mar 2019 14:16

Tgt Ion: 164 Resp: 231110  
Ion Ratio Lower Upper  
164 100  
162 100.9 80.8 121.2  
160 45.5 36.2 54.2

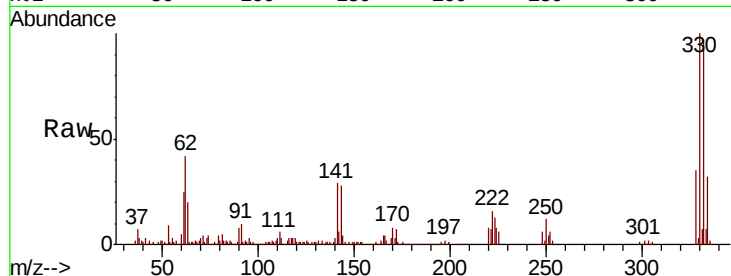




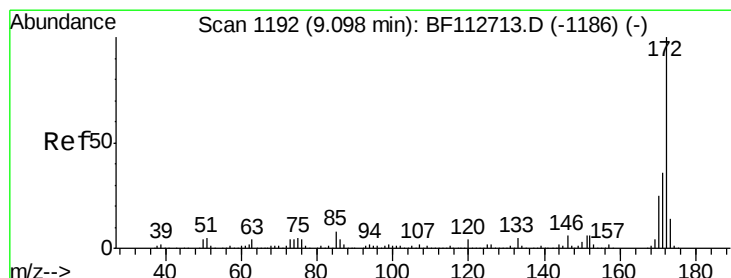
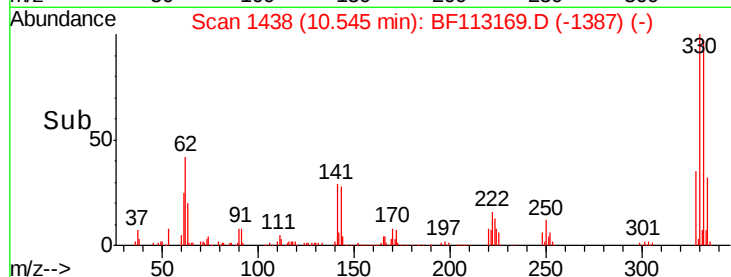
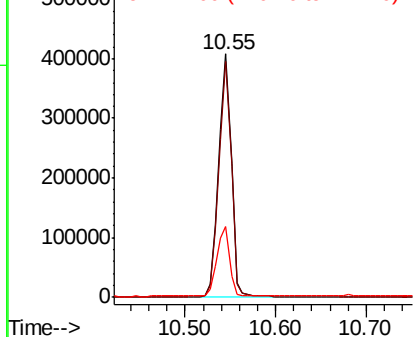
#42  
 2,4,6-Tribromophenol  
 Concen: 160.876 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.00 min  
 Lab File: BF113169.D  
 Acq: 20 Mar 2019 14:16

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 394712  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 76.3 114.5  
 141 28.9 22.3 33.5

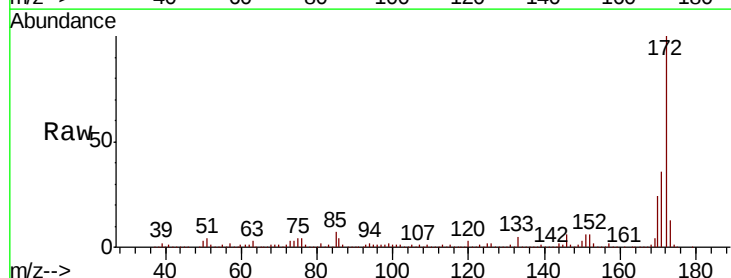


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

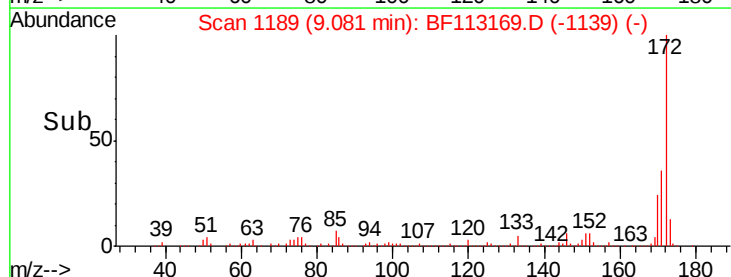
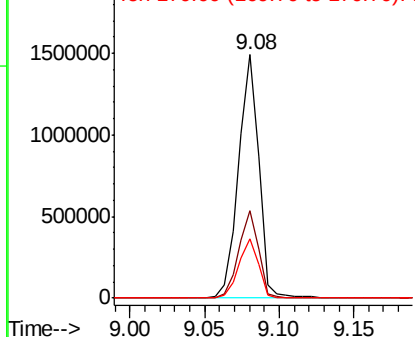


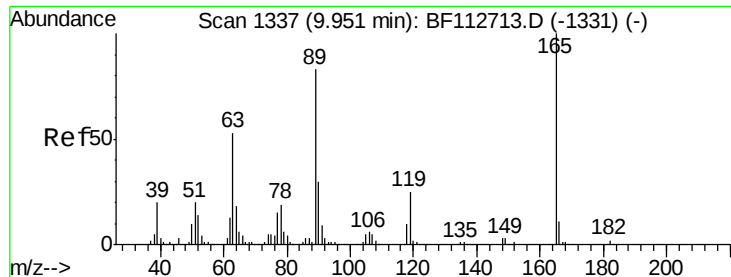
#45  
 2-Fluorobiphenyl  
 Concen: 110.516 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF113169.D  
 Acq: 20 Mar 2019 14:16

Tgt Ion:172 Resp: 1421176  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 29.0 43.4  
 170 24.5 20.1 30.1



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

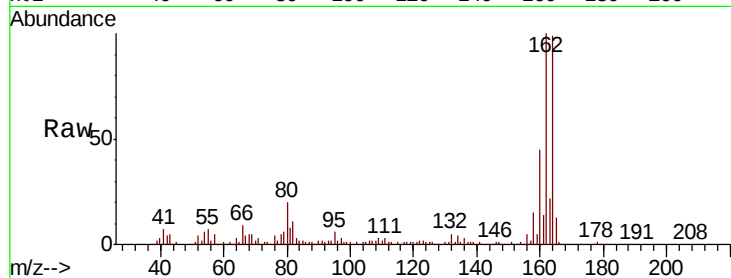




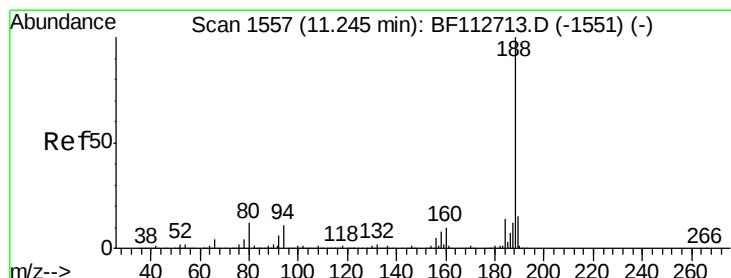
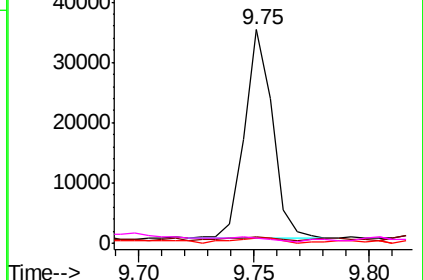
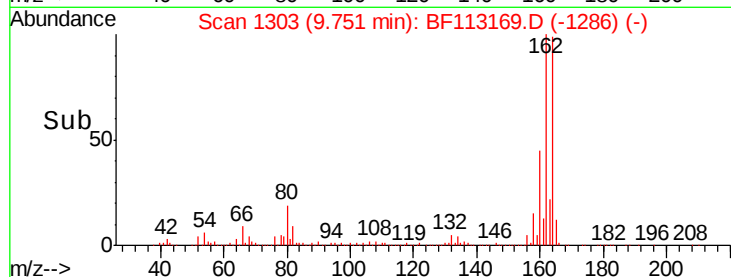
#57  
 2,4-Dinitrotoluene  
 Concen: 6.719 ng  
 RT: 9.75 min Scan# 1303  
 Delta R.T. -0.20 min  
 Lab File: BF113169.D  
 Acq: 20 Mar 2019 14:16

Instrument :  
 BNA\_F  
 ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 29637 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 2.9   | 37.9  | 56.9# |
| 89       | 2.3   | 58.5  | 87.7# |
| 182      | 2.5   | 2.2   | 3.2   |

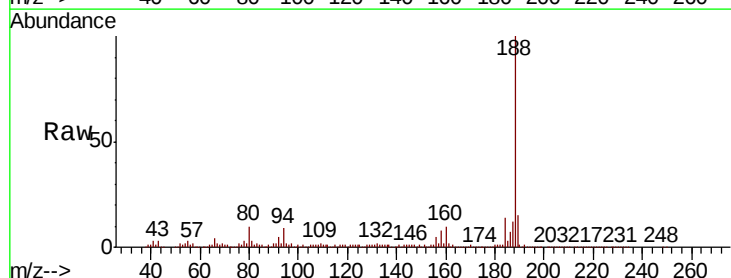


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

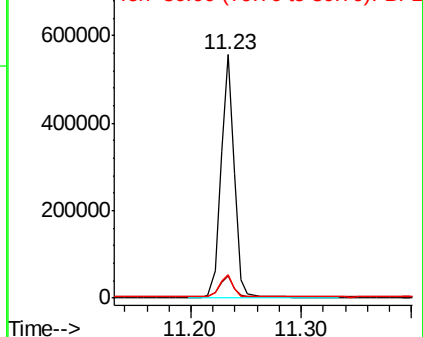
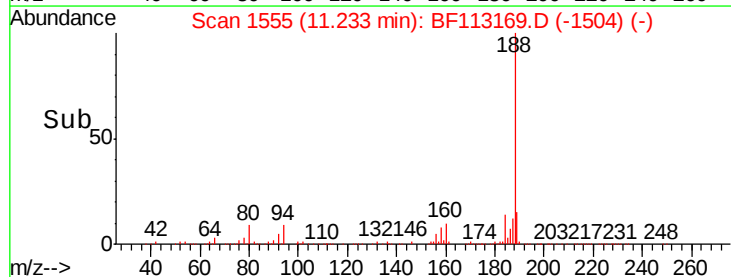


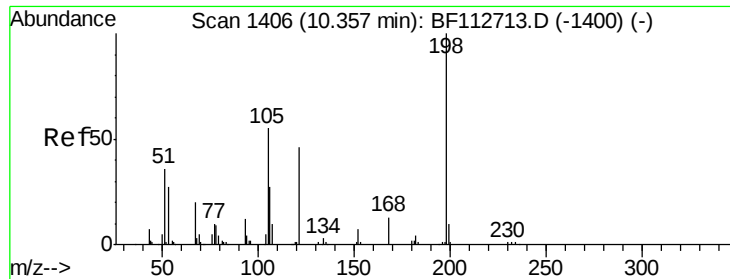
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.23 min Scan# 1555  
 Delta R.T. -0.00 min  
 Lab File: BF113169.D  
 Acq: 20 Mar 2019 14:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 463886 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.3   | 7.4   | 11.2   |
| 80       | 9.6   | 7.9   | 11.9   |



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

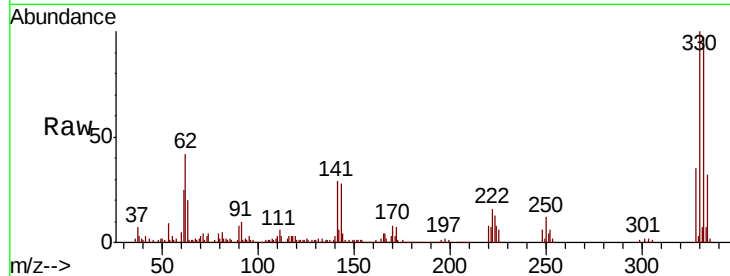




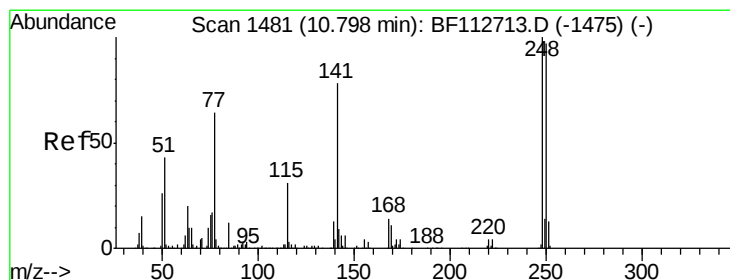
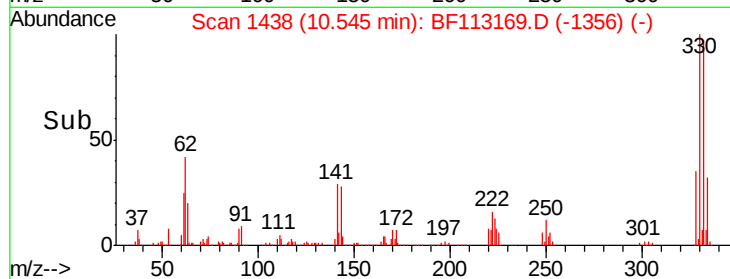
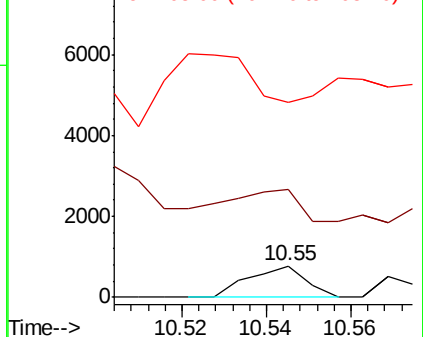
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 4.961 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. 0.18 min  
 Lab File: BF113169.D  
 Acq: 20 Mar 2019 14:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:198 Resp: 735  
 Ion Ratio Lower Upper  
 198 100  
 51 343.5 25.5 65.5#  
 105 624.8 23.2 63.2#

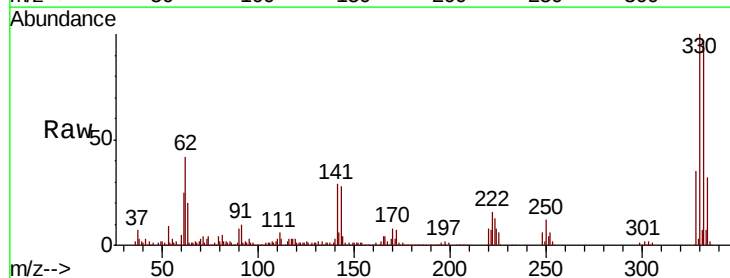


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

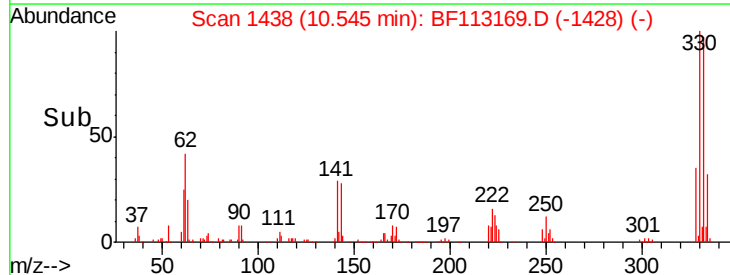
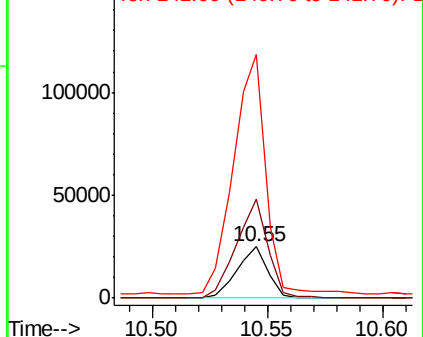


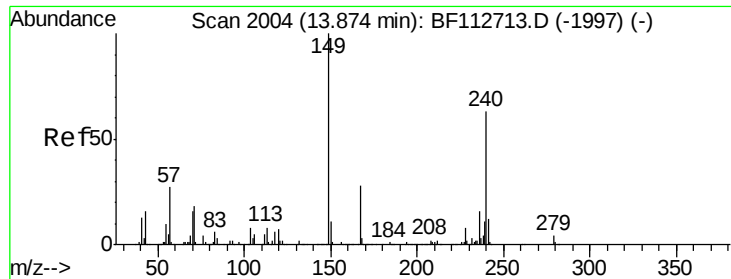
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.752 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.24 min  
 Lab File: BF113169.D  
 Acq: 20 Mar 2019 14:16

Tgt Ion:248 Resp: 23220  
 Ion Ratio Lower Upper  
 248 100  
 250 192.5 78.4 117.6#  
 141 475.3 45.9 68.9#



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

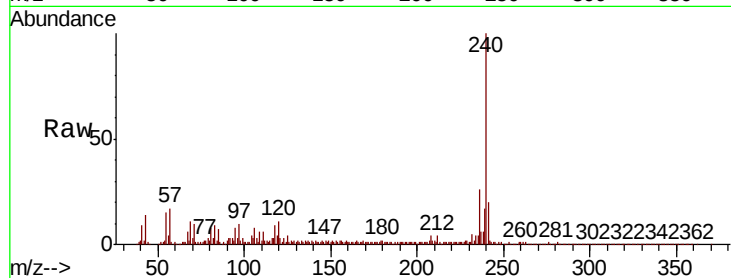




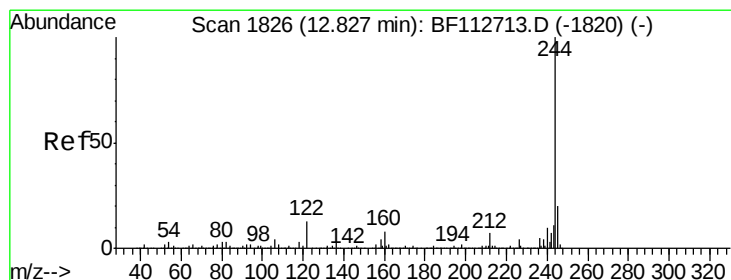
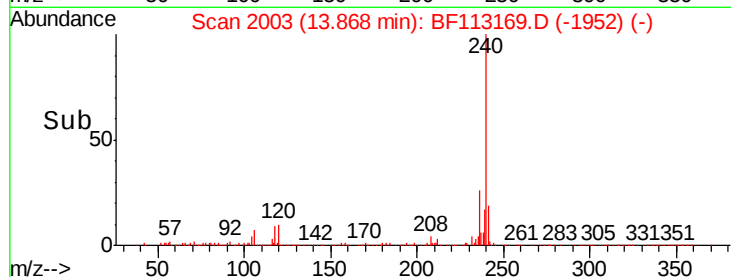
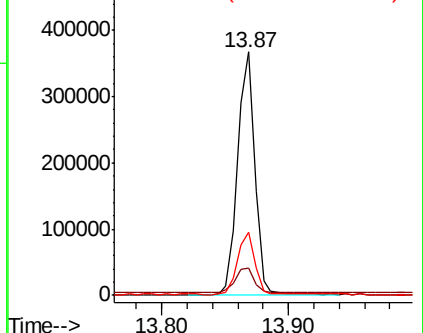
#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 13.87 min Scan# 2003  
 Delta R.T. -0.00 min  
 Lab File: BF113169.D  
 Acq: 20 Mar 2019 14:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:240 Resp: 338304  
 Ion Ratio Lower Upper  
 240 100  
 120 11.0 8.6 12.8  
 236 26.0 21.2 31.8

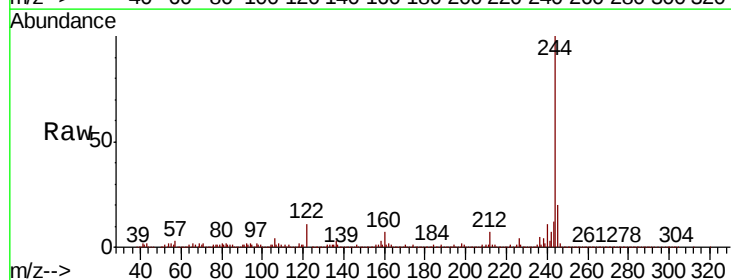


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

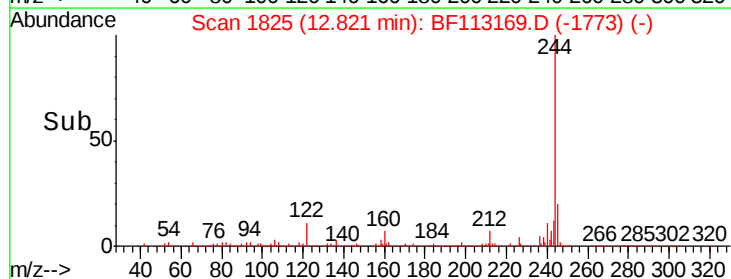
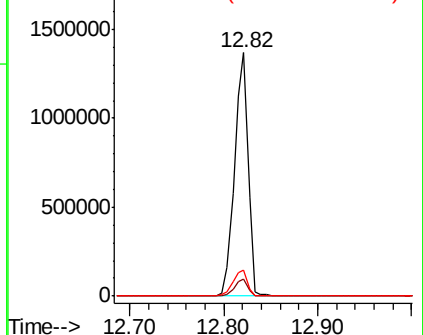


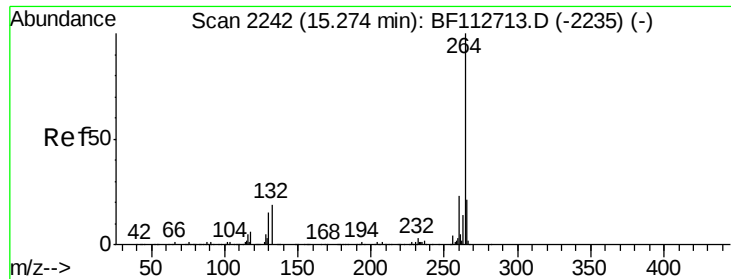
#79  
 Terphenyl-d14  
 Concen: 78.180 ng  
 RT: 12.82 min Scan# 1825  
 Delta R.T. 0.01 min  
 Lab File: BF113169.D  
 Acq: 20 Mar 2019 14:16

Tgt Ion:244 Resp: 1364379  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.7 8.5  
 122 10.8 9.4 14.2



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

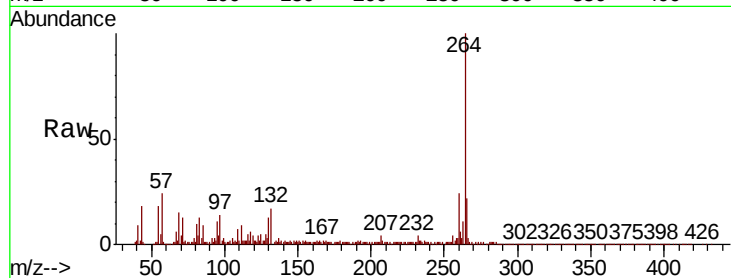




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.28 min Scan# 2243  
Delta R.T. 0.01 min  
Lab File: BF113169.D  
Acq: 20 Mar 2019 14:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 358273  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.2 28.8  
265 21.9 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

