

Data Path : Z:\HPCHEM1\BNA F\Data\BF072816\  
 Data File : BF089354.D  
 Acq On : 28 Jul 2016 8:53  
 Operator : UM/SJ  
 Sample : H4157-27  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 I-24

Quant Time: Jul 28 11:31:00 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 27 17:12:17 2016  
 Response via : Initial Calibration

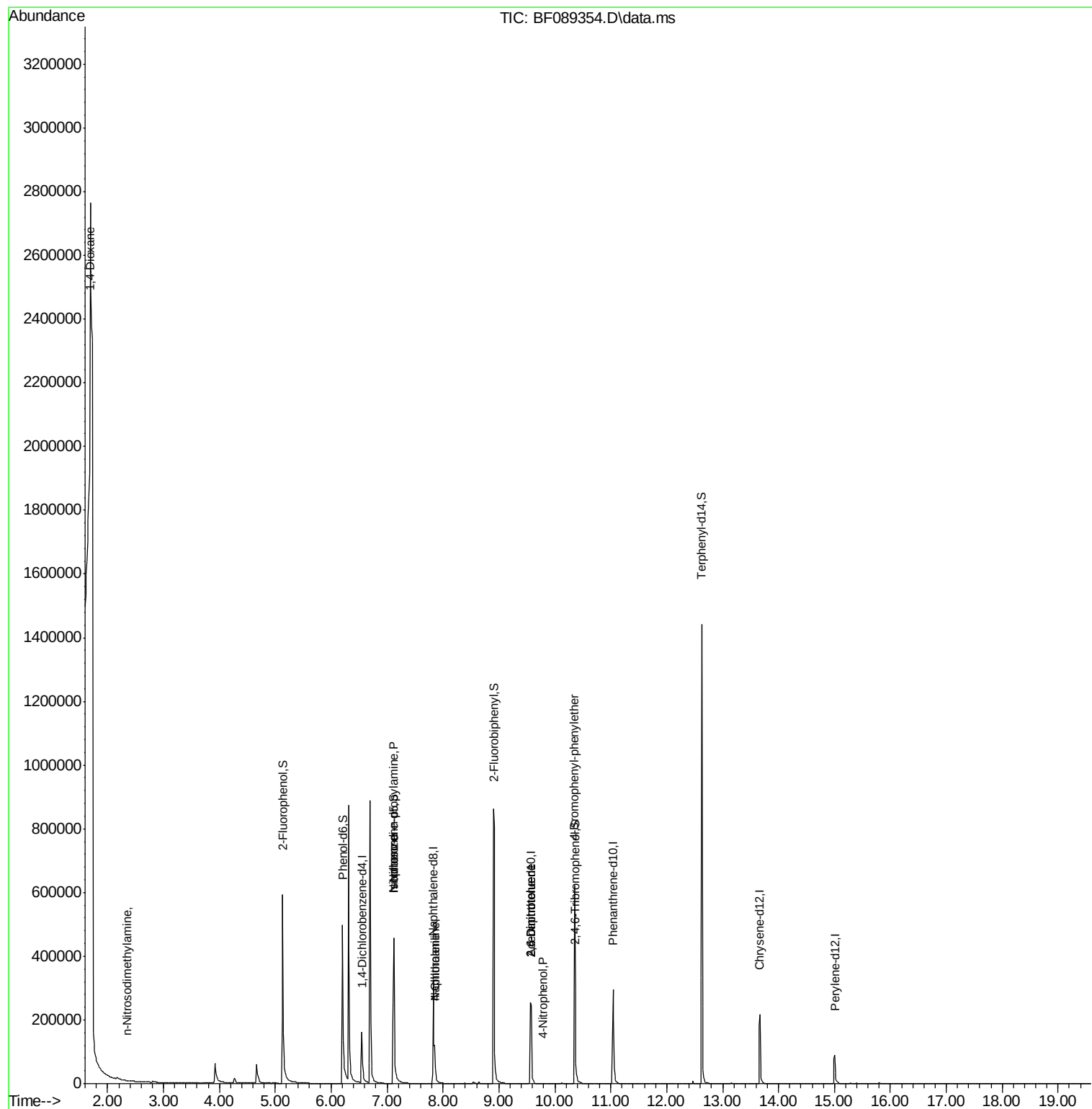
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.547  | 152  | 41542    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8            | 7.827  | 136  | 190648   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10          | 9.565  | 164  | 82450    | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10          | 11.039 | 188  | 170756   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12              | 13.668 | 240  | 124825   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12              | 15.005 | 264  | 46157    | 20.00  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.130  | 112  | 255977   | 98.39  | ng    | 0.02     |
| 7) Phenol-d6                  | 6.204  | 99   | 324960   | 94.51  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.119  | 82   | 261651   | 81.01  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol      | 10.365 | 330  | 83493    | 122.27 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl          | 8.913  | 172  | 474532   | 84.46  | ng    | 0.00     |
| 78) Terphenyl-d14             | 12.628 | 244  | 465150   | 87.22  | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 1.690  | 88   | 54760    | 47.08  | ng    | # 26     |
| 4) n-Nitrosodimethylamine     | 2.353  | 42   | 424      | 8.07   | ng    | # 1      |
| 19) n-Nitroso-di-n-propyla... | 7.119  | 70   | 33106    | 15.97  | ng    | # 79     |
| 25) Isophorone                | 7.119  | 82   | 195734   | 30.08  | ng    | # 67     |
| 31) Naphthalene               | 7.850  | 128  | 68714    | 7.28   | ng    | # 98     |
| 33) 4-Chloroaniline           | 7.850  | 127  | 8006     | 2.23   | ng    | # 30     |
| 50) 2,6-Dinitrotoluene        | 9.565  | 165  | 9973     | 7.74   | ng    | # 24     |
| 55) 4-Nitrophenol             | 9.793  | 139  | 511      | 6.90   | ng    | # 4      |
| 56) 2,4-Dinitrotoluene        | 9.565  | 165  | 9974     | 5.88   | ng    | # 7      |
| 66) 4-Bromophenyl-phenylether | 10.353 | 248  | 6035     | 3.70   | ng    | # 1      |
| -----                         |        |      |          |        |       |          |

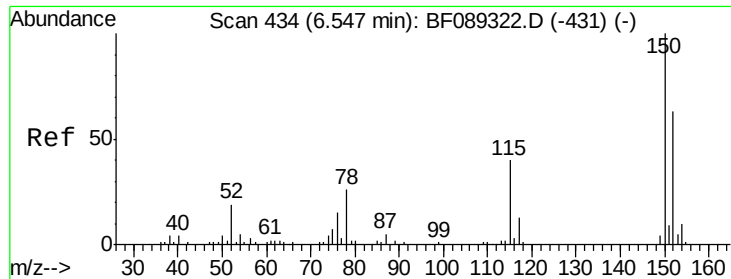
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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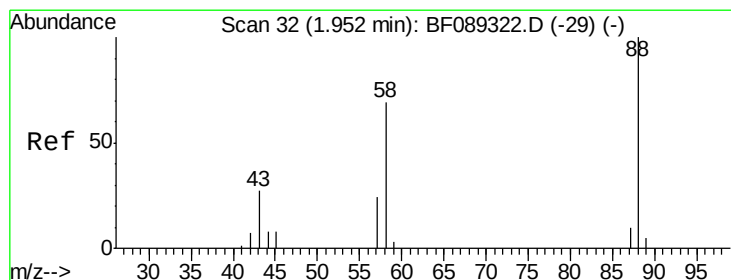
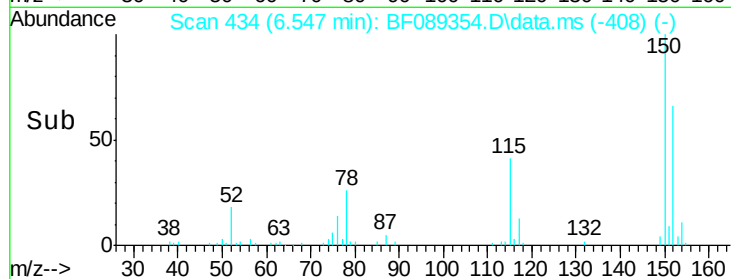
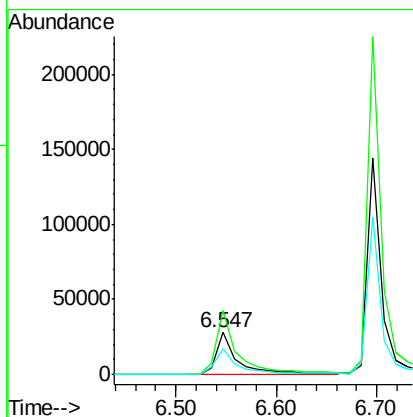
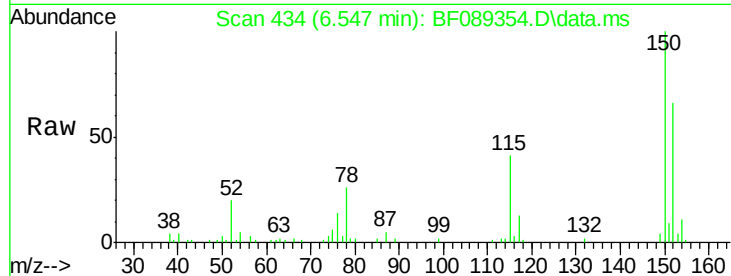




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.547 min Scan# 43  
 Delta R.T. -0.000 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

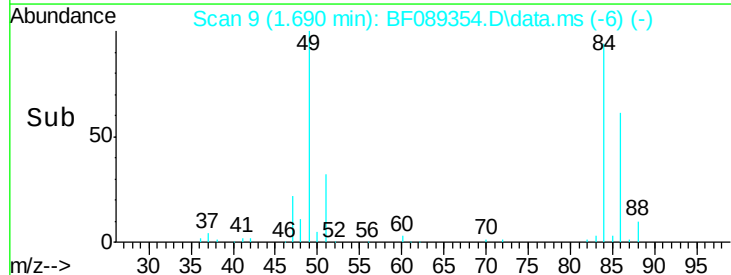
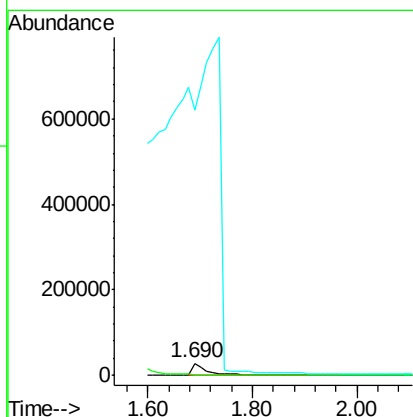
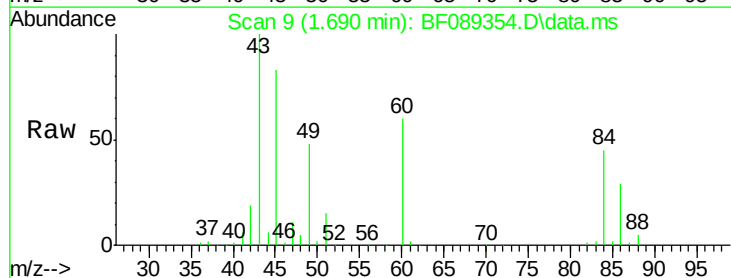
Instrument :  
 BNA\_F  
 ClientSampleId :  
 I-24

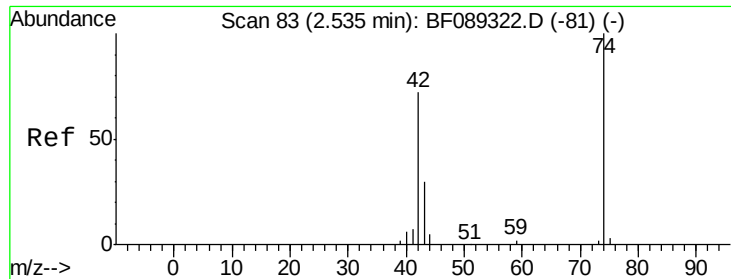
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.2 | 129.5 | 194.3 |
| 115     | 62.4  | 51.4  | 77.2  |



#2  
 1,4-Dioxane  
 Concen: 47.08 ng  
 RT: 1.690 min Scan# 9  
 Delta R.T. -0.262 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 0.0   | 53.2  | 79.8# |
| 43      | 0.0   | 20.6  | 31.0# |





#4

n-Nitrosodimethylamine

Concen: 8.07 ng

RT: 2.353 min Scan# 67

Delta R.T. -0.183 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

Instrument :

BNA\_F

ClientSampleId :

I-24

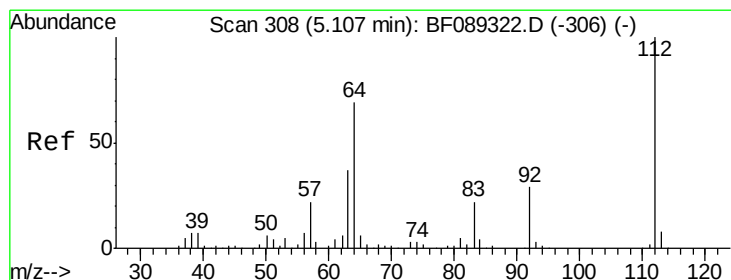
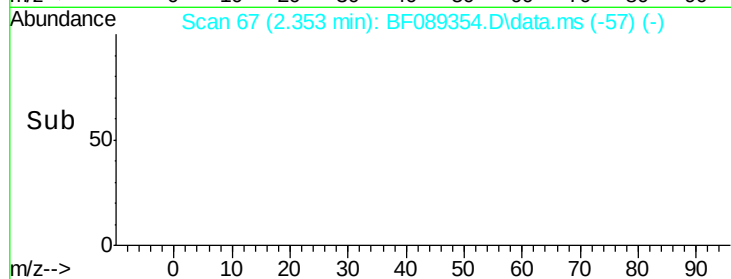
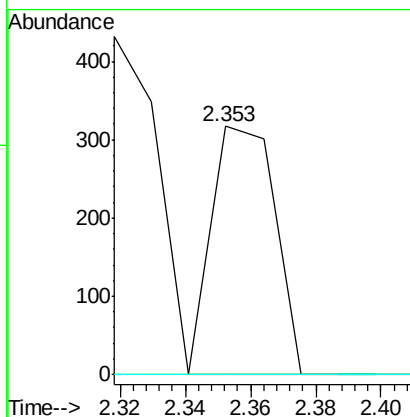
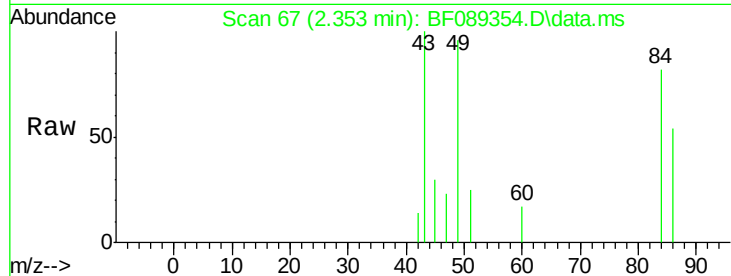
Tot Ion: 42 Resp: 424

Ion Ratio Lower Upper

42 100

74 0.0 110.8 166.2#

44 0.0 5.2 7.8#



#5

2-Fluorophenol

Concen: 98.39 ng

RT: 5.130 min Scan# 310

Delta R.T. 0.023 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

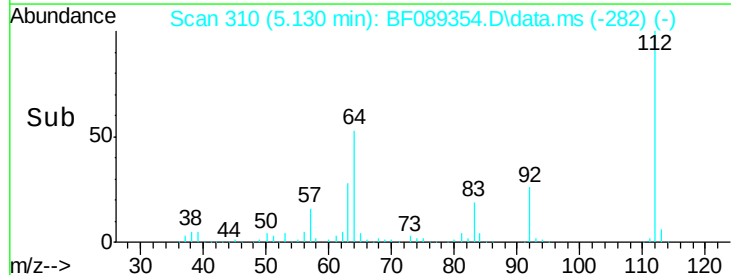
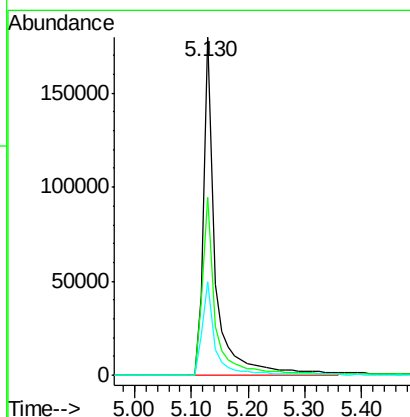
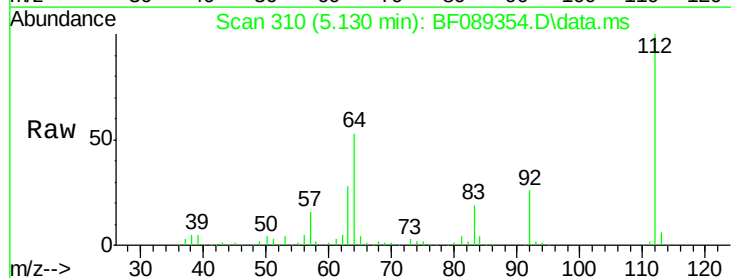
Tgt Ion: 112 Resp: 255977

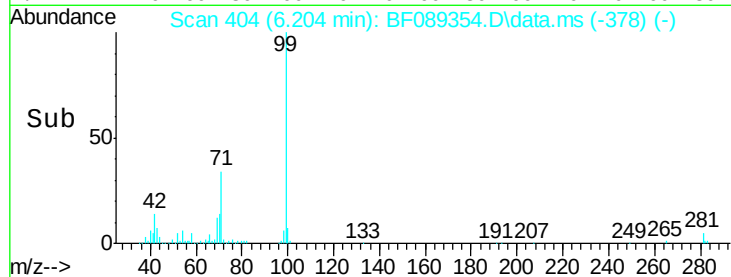
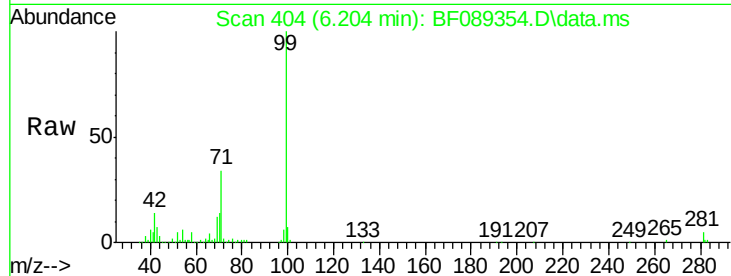
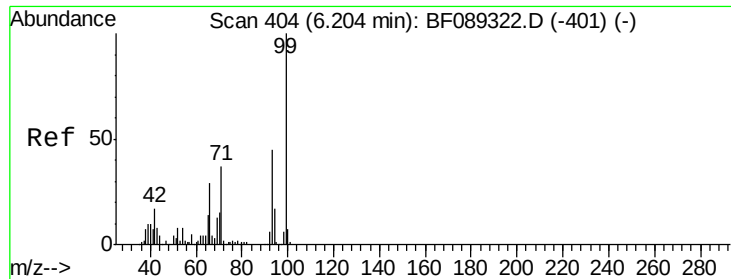
Ion Ratio Lower Upper

112 100

64 52.8 55.0 82.6#

63 27.9 29.4 44.2#





#7

Phenol-d6

Concen: 94.51 ng

RT: 6.204 min Scan# 40

Delta R.T. -0.000 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

Instrument :

BNA\_F

ClientSampleId :

I-24

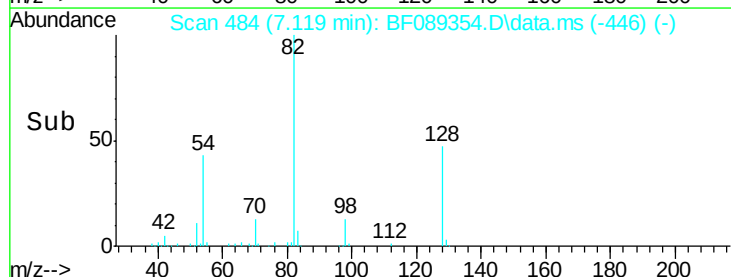
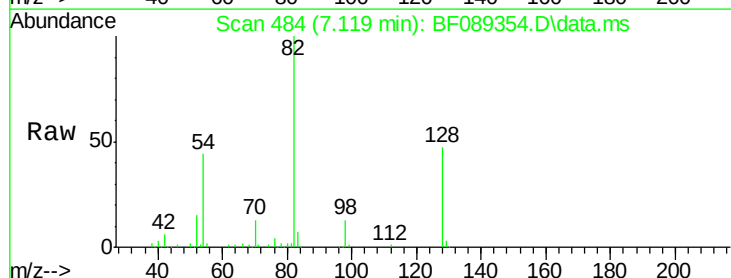
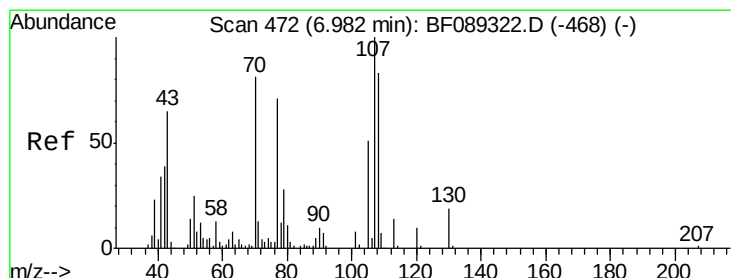
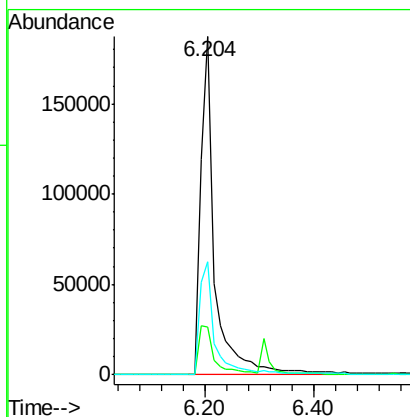
Tot Ion: 99 Resp: 324960

Ion Ratio Lower Upper

99 100

42 14.0 13.6 20.4

71 33.5 29.4 44.2



#19

n-Nitroso-di-n-propylamine

Concen: 15.97 ng

RT: 7.119 min Scan# 484

Delta R.T. 0.137 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

Tgt Ion: 70 Resp: 33106

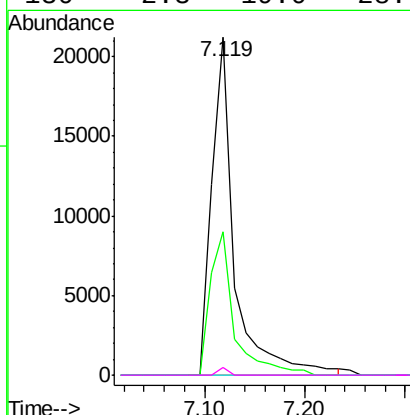
Ion Ratio Lower Upper

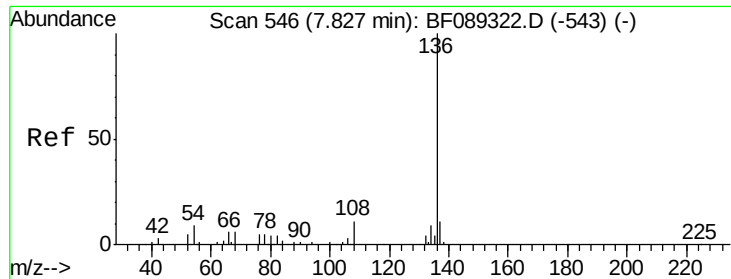
70 100

42 42.5 38.6 57.8

101 0.0 8.3 12.5#

130 2.3 19.0 28.4#

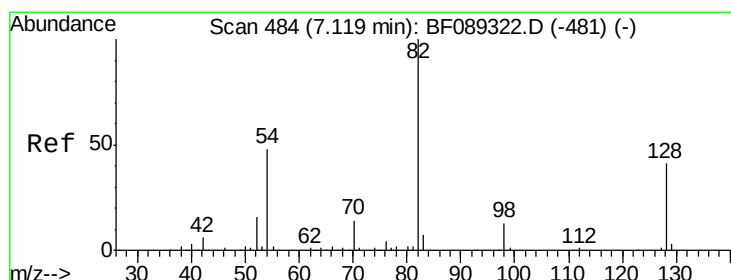
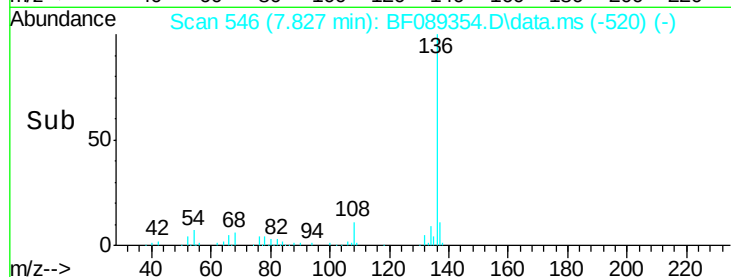
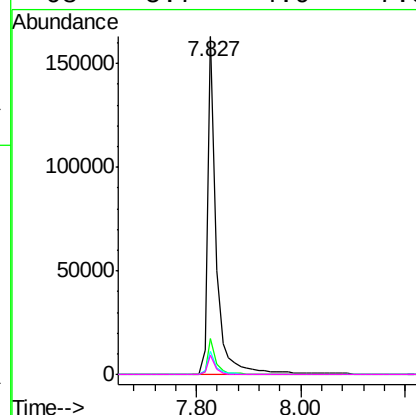
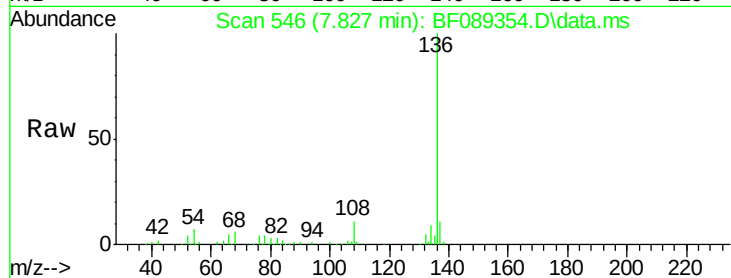




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.827 min Scan# 54  
Delta R.T. -0.000 min  
Lab File: BF089354.D  
Acq: 28 Jul 2016 8:53

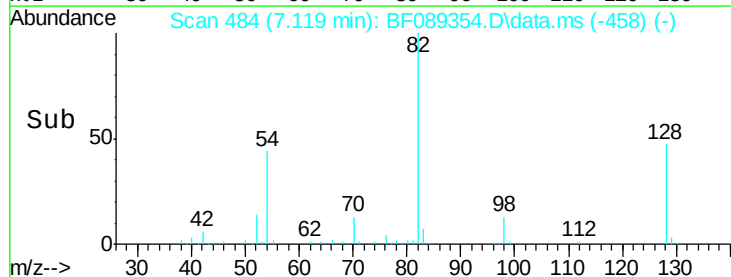
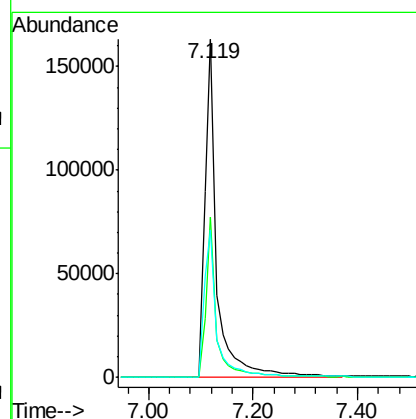
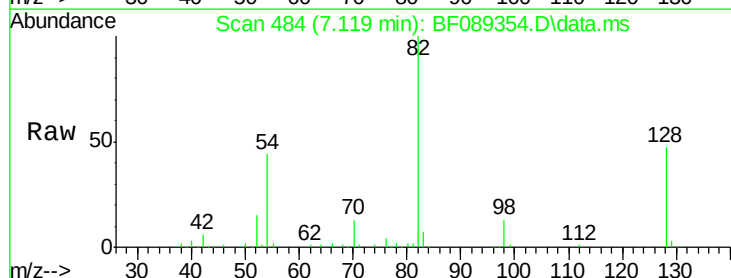
Instrument :  
BNA\_F  
ClientSampleId :  
I-24

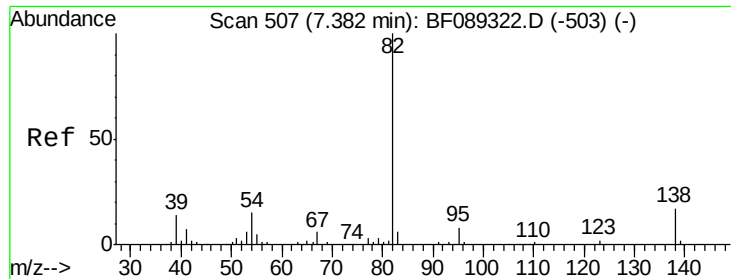
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 190648    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 10.8  | 8.6 13.0  |
| 54          | 6.8   | 7.0 10.4# |
| 68          | 5.7   | 4.9 7.3   |



#23  
Nitrobenzene-d5  
Concen: 81.01 ng  
RT: 7.119 min Scan# 484  
Delta R.T. -0.000 min  
Lab File: BF089354.D  
Acq: 28 Jul 2016 8:53

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 261651    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 47.4  | 32.5 48.7 |
| 54          | 43.5  | 38.8 58.2 |





#25

Isophorone

Concen: 30.08 ng

RT: 7.119 min Scan# 48

Delta R.T. -0.263 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

Instrument :

BNA\_F

ClientSampleId :

I-24

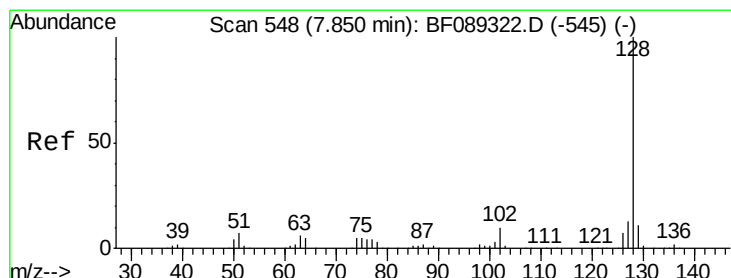
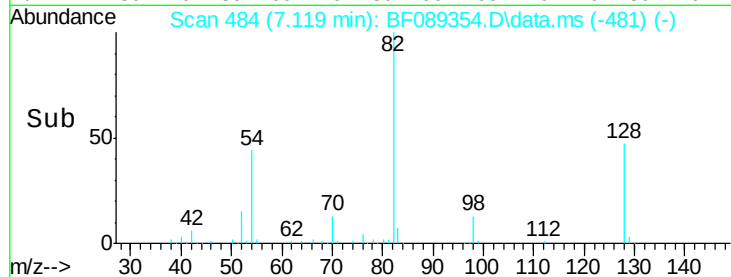
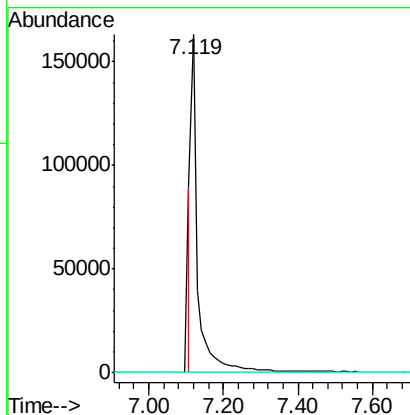
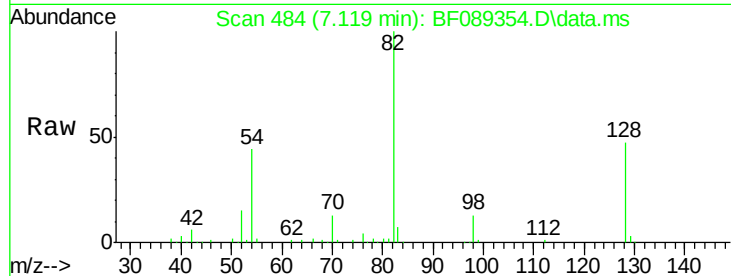
Tot Ion: 82 Resp: 195734

Ion Ratio Lower Upper

82 100

95 0.0 6.0 9.0#

138 0.0 13.3 19.9#



#31

Naphthalene

Concen: 7.28 ng

RT: 7.850 min Scan# 548

Delta R.T. -0.000 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

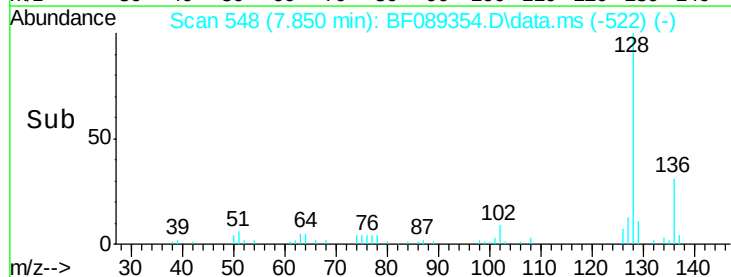
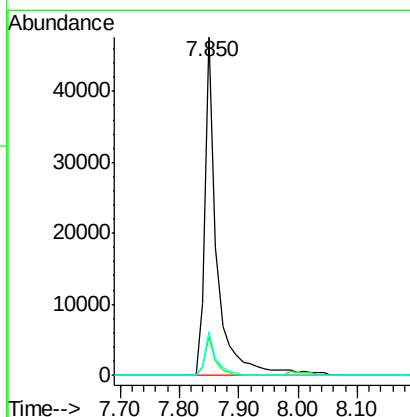
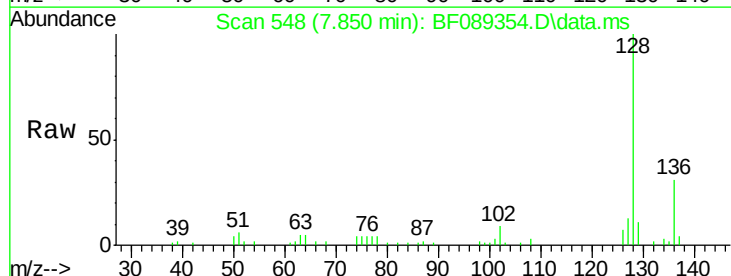
Tgt Ion: 128 Resp: 68714

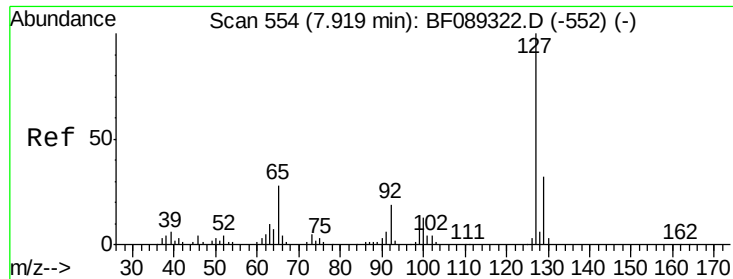
Ion Ratio Lower Upper

128 100

129 11.5 8.8 13.2

127 12.8 10.8 16.2

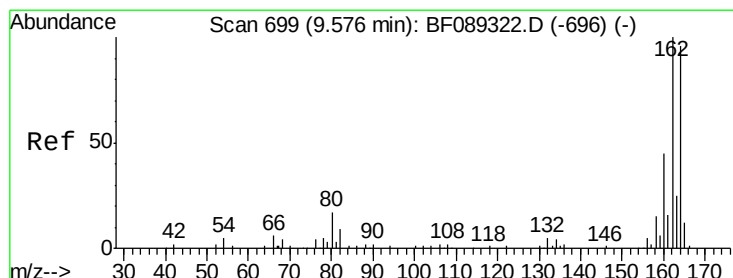
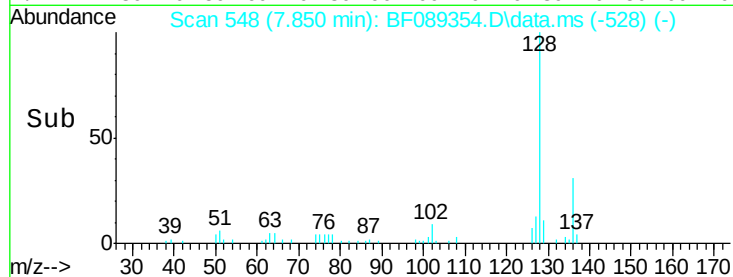
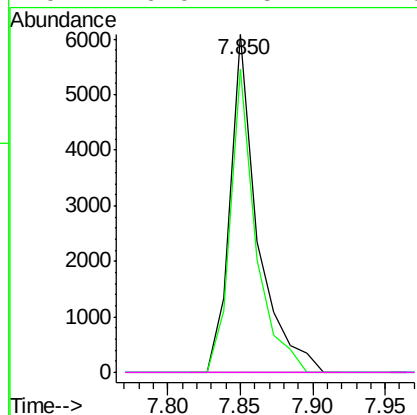
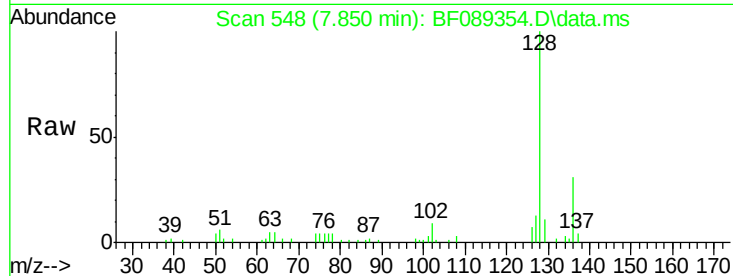




#33  
4-Chloroaniline  
Concen: 2.23 ng  
RT: 7.850 min Scan# 54  
Delta R.T. -0.069 min  
Lab File: BF089354.D  
Acq: 28 Jul 2016 8:53

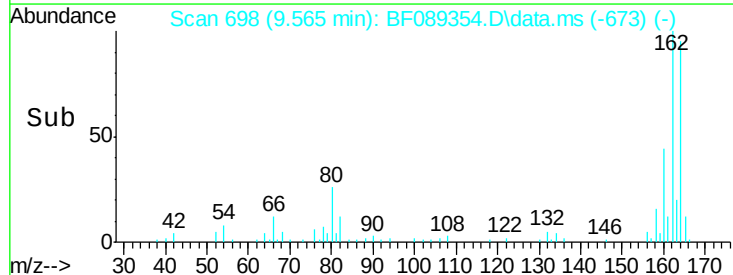
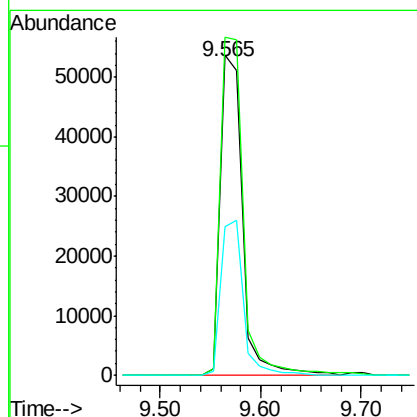
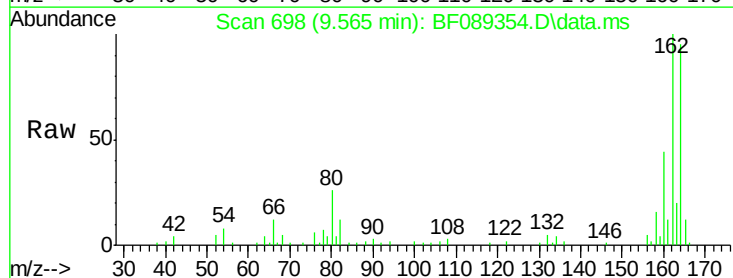
Instrument :  
BNA\_F  
ClientSampleId :  
I-24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 127   | Resp: | 8006  |
| Ion Ratio | Lower | Upper |       |
| 127       | 100   |       |       |
| 129       | 89.9  | 26.1  | 39.1# |
| 65        | 0.0   | 22.0  | 33.0# |
| 92        | 0.0   | 15.2  | 22.8# |

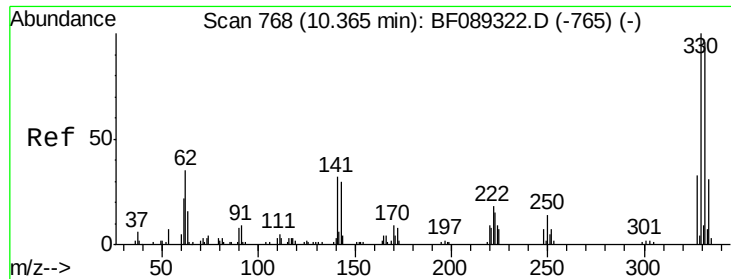


#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.565 min Scan# 698  
Delta R.T. -0.011 min  
Lab File: BF089354.D  
Acq: 28 Jul 2016 8:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 82450 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 105.8 | 83.7  | 125.5 |
| 160       | 46.3  | 37.8  | 56.6  |



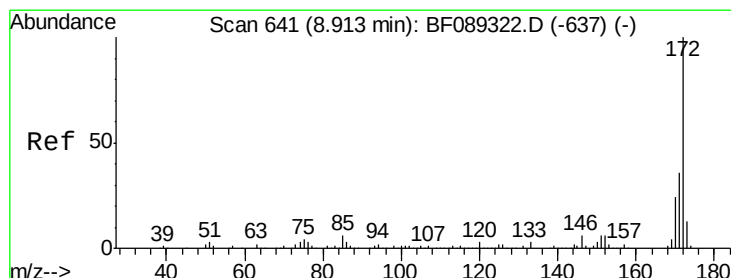
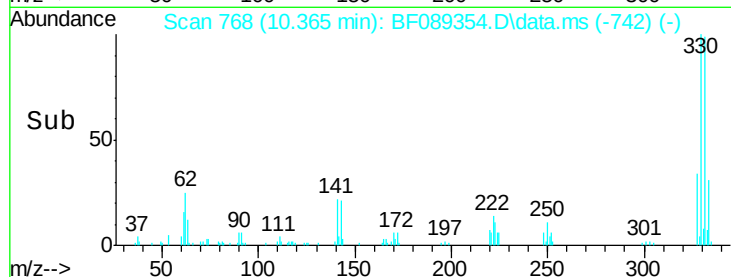
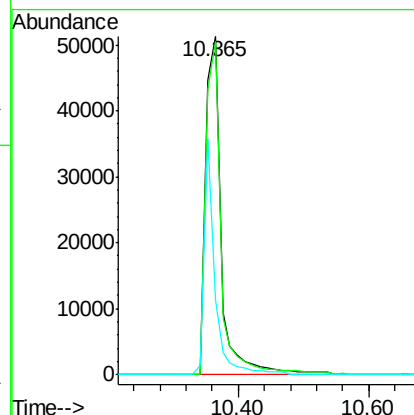
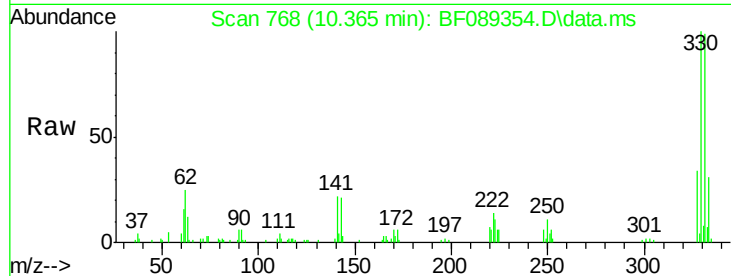




#41  
 2,4,6-Tribromophenol  
 Concen: 122.27 ng  
 RT: 10.365 min Scan# 768  
 Delta R.T. -0.000 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

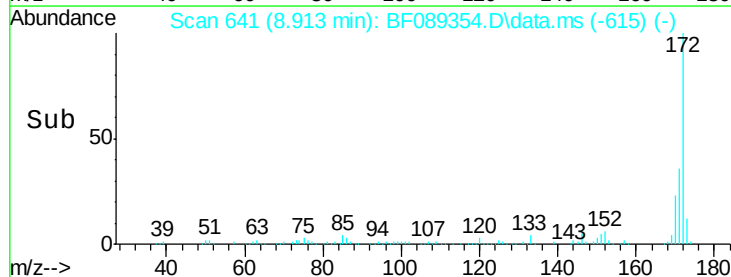
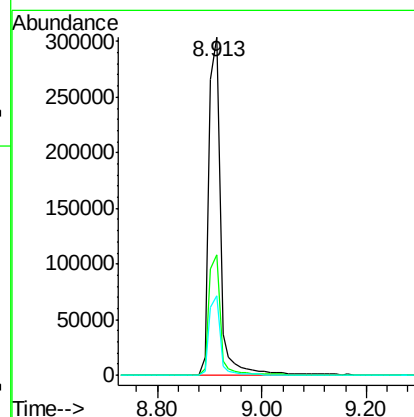
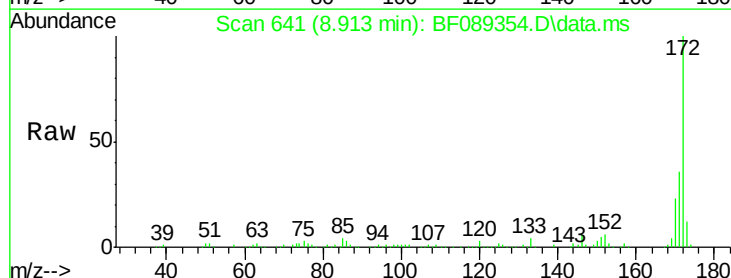
Instrument :  
 BNA\_F  
 ClientSampleId :  
 I-24

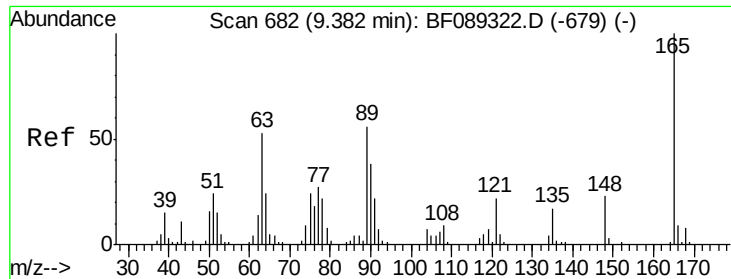
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.8  | 76.8  | 115.2 |
| 141     | 47.5  | 37.3  | 55.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 84.46 ng  
 RT: 8.913 min Scan# 641  
 Delta R.T. -0.000 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.2  | 43.8  |
| 170     | 23.4  | 19.2  | 28.8  |

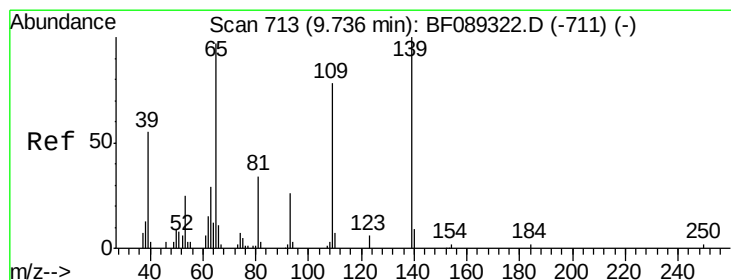
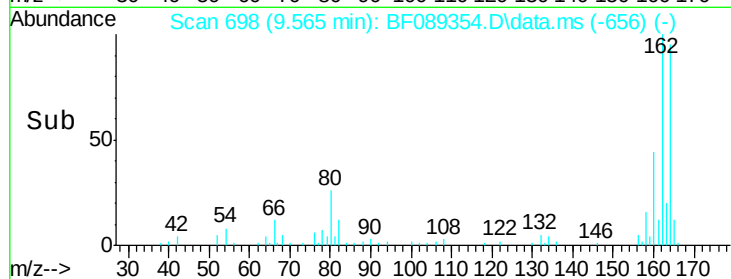
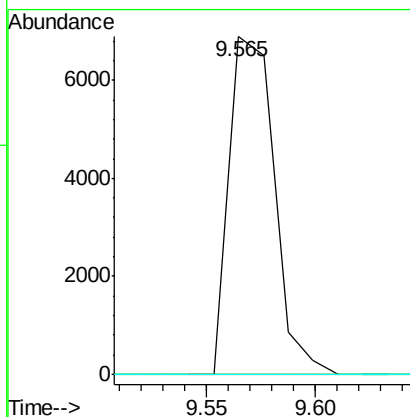
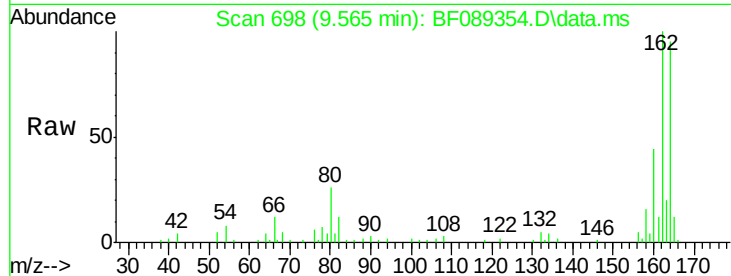




#50  
 2,6-Dinitrotoluene  
 Concen: 7.74 ng  
 RT: 9.565 min Scan# 69  
 Delta R.T. 0.183 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

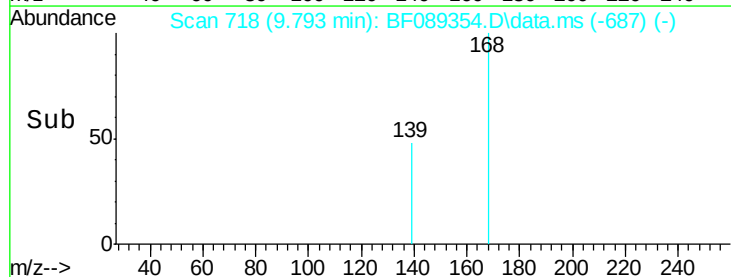
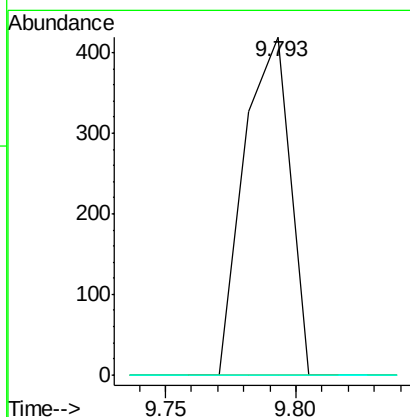
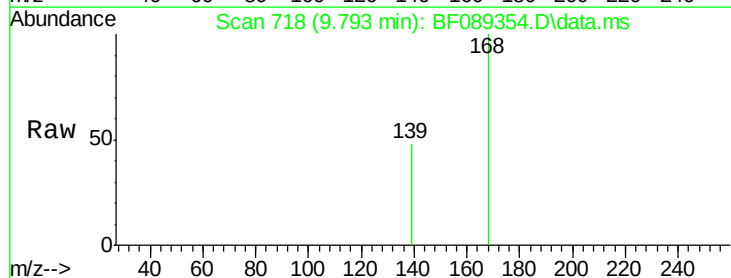
Instrument :  
 BNA\_F  
 ClientSampleId :  
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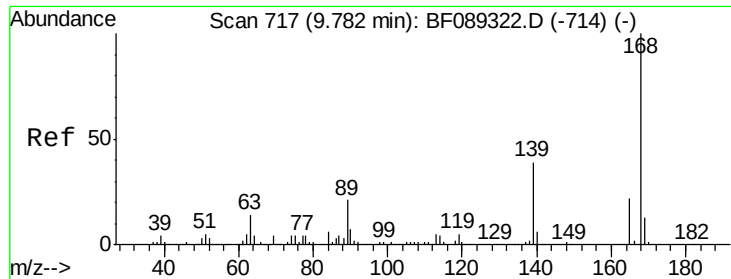
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 43.5  | 65.3# |
| 89      | 0.0   | 45.0  | 67.4# |



#55  
 4-Nitrophenol  
 Concen: 6.90 ng  
 RT: 9.793 min Scan# 718  
 Delta R.T. 0.057 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 0.0   | 57.8  | 97.8#  |
| 65      | 0.0   | 81.7  | 121.7# |

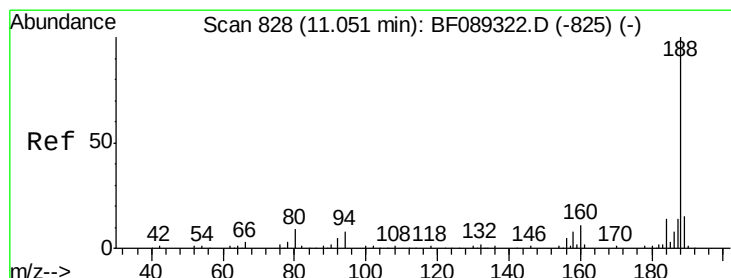
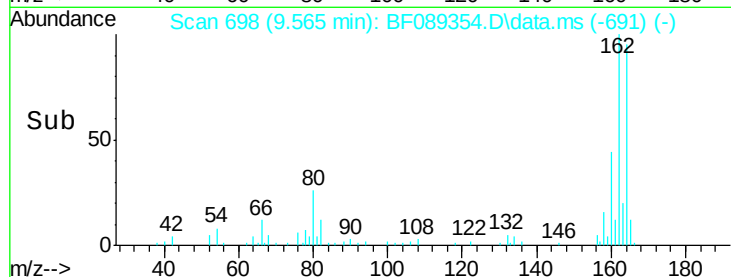
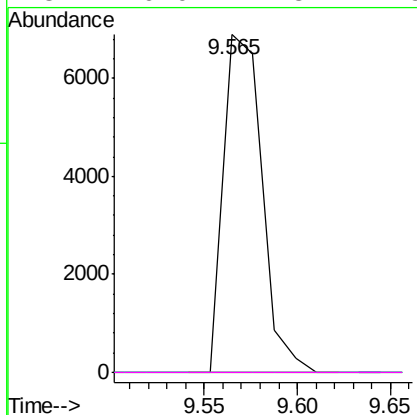
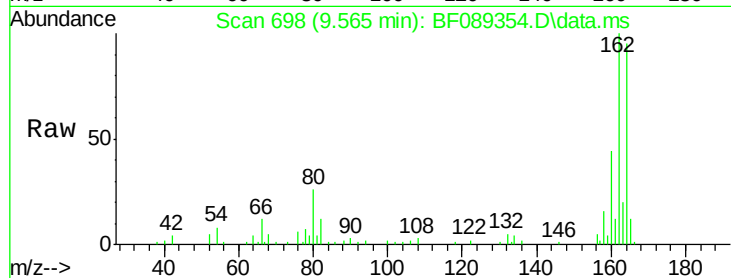




#56  
 2,4-Dinitrotoluene  
 Concen: 5.88 ng  
 RT: 9.565 min Scan# 69  
 Delta R.T. -0.217 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

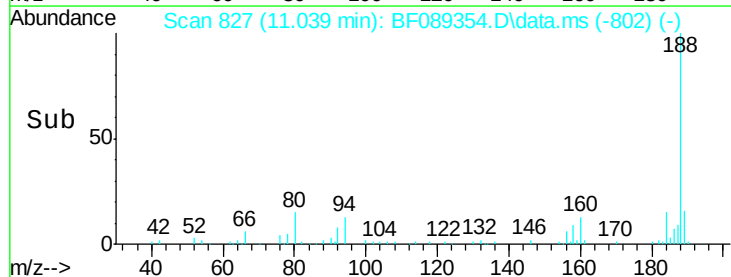
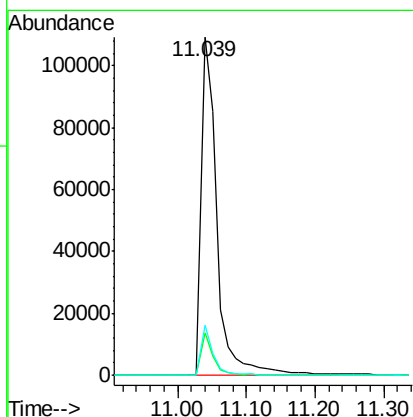
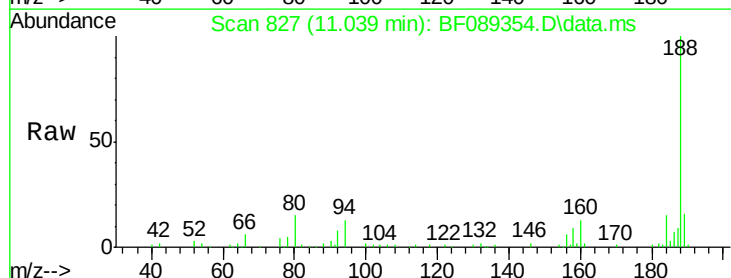
Instrument :  
 BNA\_F  
 ClientSampleId :  
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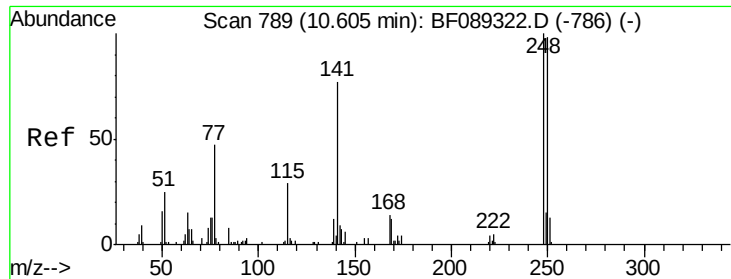
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 58.2  | 87.2#  |
| 89      | 0.0   | 79.1  | 118.7# |
| 182     | 0.0   | 1.8   | 2.8#   |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.039 min Scan# 827  
 Delta R.T. -0.011 min  
 Lab File: BF089354.D  
 Acq: 28 Jul 2016 8:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 12.5  | 6.5   | 9.7#  |
| 80      | 15.0  | 7.2   | 10.8# |

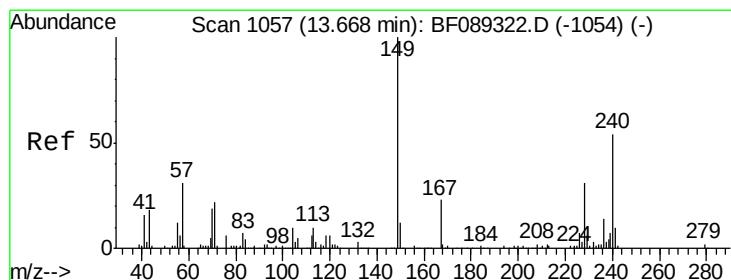
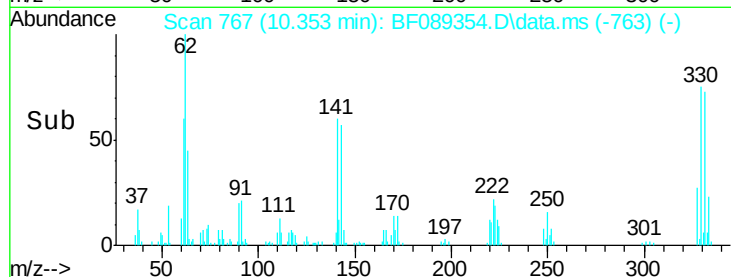
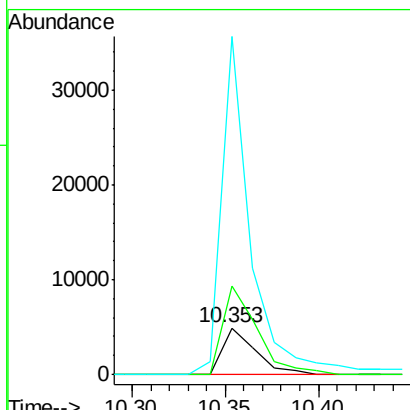
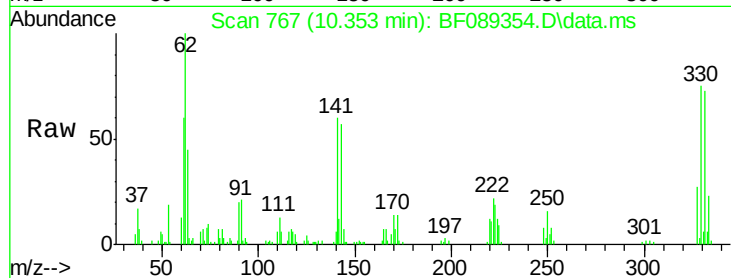




#66  
4-Bromophenyl-phenylether  
Concen: 3.70 ng  
RT: 10.353 min Scan# 76  
Delta R.T. -0.252 min  
Lab File: BF089354.D  
Acq: 28 Jul 2016 8:53

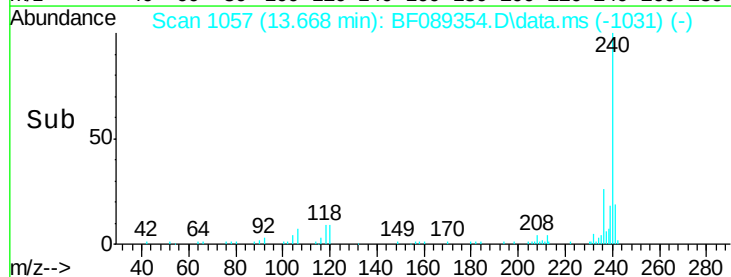
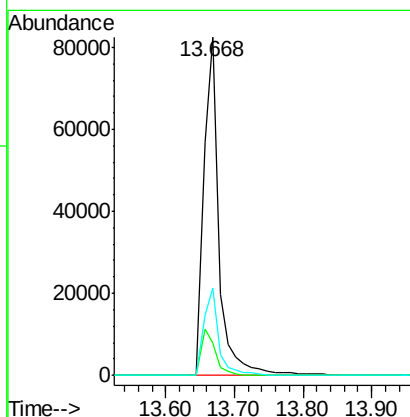
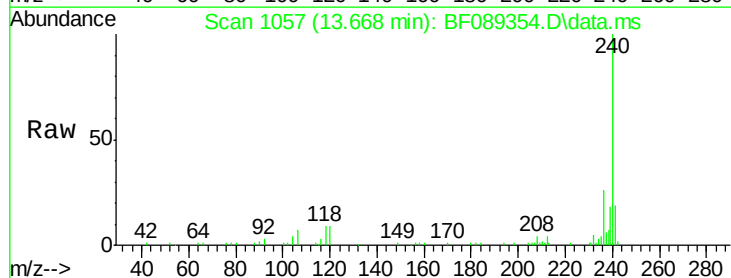
Instrument :  
BNA\_F  
ClientSampleId :  
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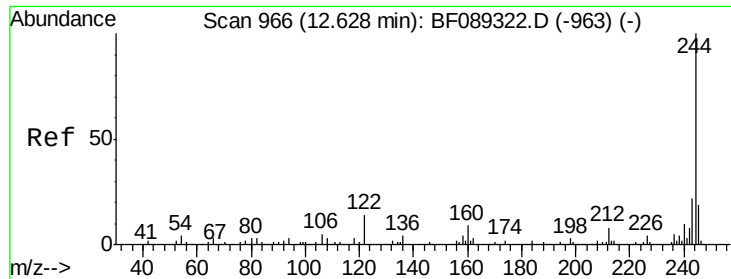
Tot Ion:248 Resp: 6035  
Ion Ratio Lower Upper  
248 100  
250 190.9 78.2 117.2#  
141 726.7 62.0 93.0#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.668 min Scan# 1057  
Delta R.T. -0.000 min  
Lab File: BF089354.D  
Acq: 28 Jul 2016 8:53

Tgt Ion:240 Resp: 124825  
Ion Ratio Lower Upper  
240 100  
120 9.4 9.1 13.7  
236 26.0 20.6 30.8





#78

Terphenyl-d14

Concen: 87.22 ng

RT: 12.628 min Scan# 96

Delta R.T. -0.000 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

Instrument :

BNA\_F

ClientSampleId :

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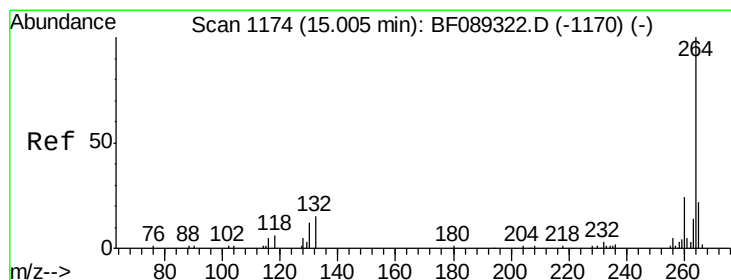
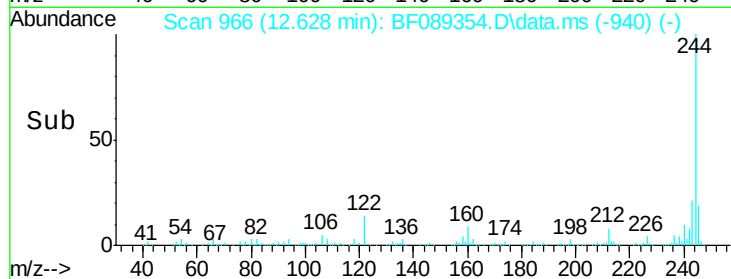
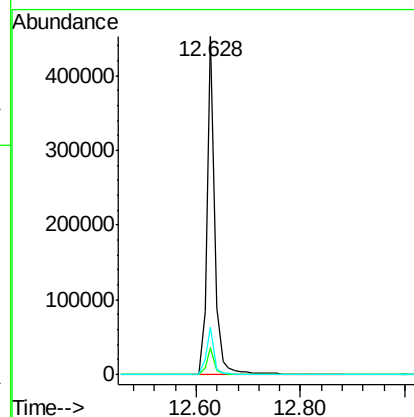
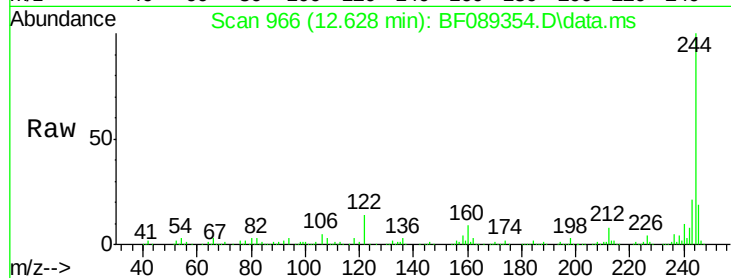
Tot Ion:244 Resp: 465150

Ion Ratio Lower Upper

244 100

212 8.1 6.5 9.7

122 14.2 11.4 17.0



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.005 min Scan# 1174

Delta R.T. -0.000 min

Lab File: BF089354.D

Acq: 28 Jul 2016 8:53

Tgt Ion:264 Resp: 46157

Ion Ratio Lower Upper

264 100

260 31.8 19.0 28.4#

265 20.9 17.5 26.3

