

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF091718\  
 Data File : BF109075.D  
 Acq On : 18 Sep 2018 4:27  
 Operator : JU/SJ  
 Sample : J4919-02  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLLOFF-03\_COMP\_FILL

Quant Time: Sep 18 05:21:06 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF091418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 14 13:26:52 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 141087   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.01  | 136  | 419500   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.75  | 164  | 198109   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.23 | 188  | 361896   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.85 | 240  | 347967   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.25 | 264  | 259362   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.35  | 112 | 892266  | 105.04 | ng | 0.03 |
| 7) Phenol-d6             | 6.37  | 99  | 984025  | 89.84  | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.28  | 82  | 731158  | 97.76  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.54 | 330 | 248906  | 115.77 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.08  | 172 | 1156118 | 91.43  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.81 | 244 | 1148350 | 78.22  | ng | 0.00 |

## Target Compounds

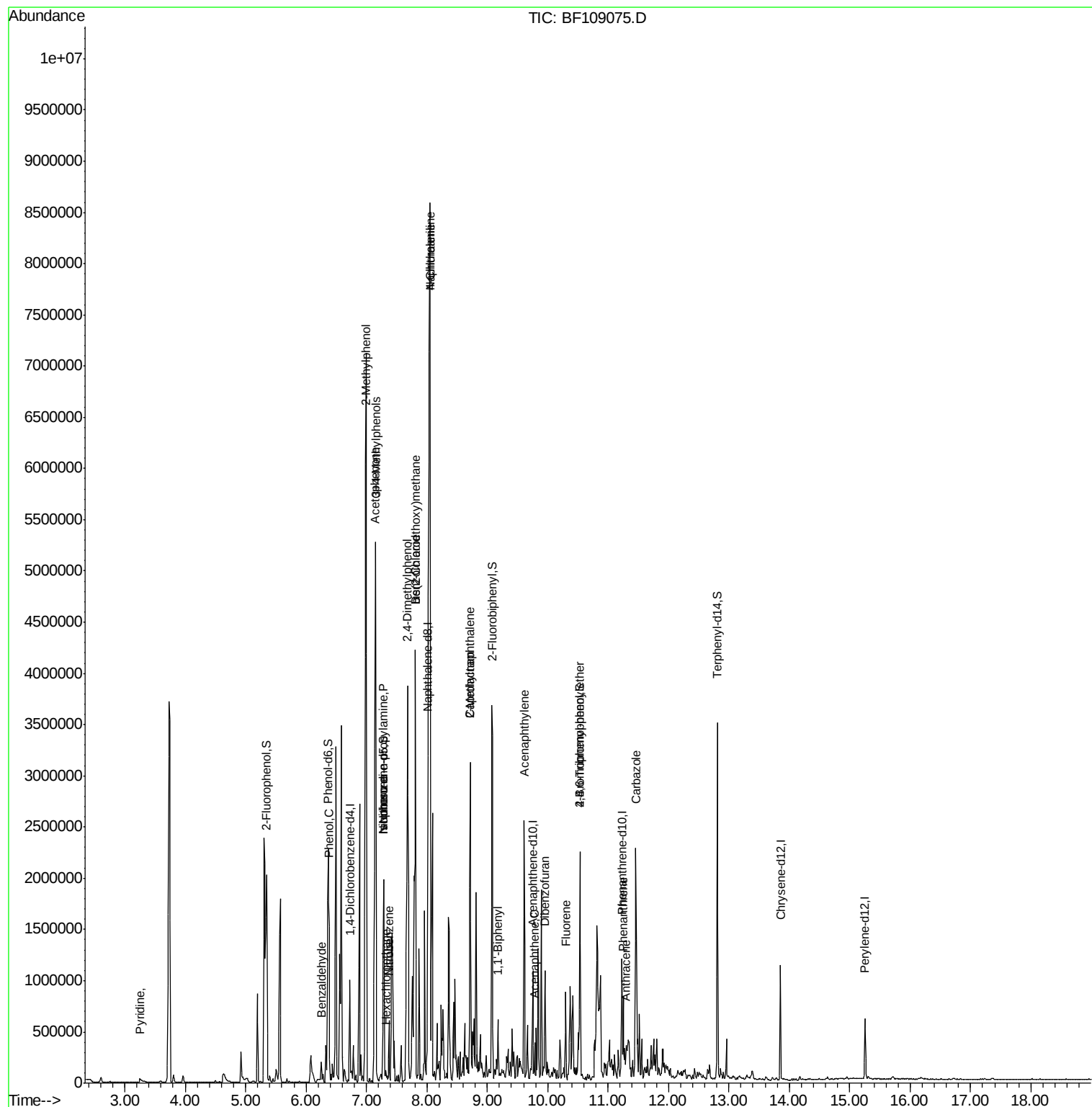
|                                |       |     |         |         |    | Qvalue |
|--------------------------------|-------|-----|---------|---------|----|--------|
| 3) Pyridine                    | 3.25  | 79  | 37420   | 3.491   | ng | 91     |
| 9) Benzaldehyde                | 6.25  | 77  | 16940   | 2.421   | ng | # 1    |
| 10) Phenol                     | 6.38  | 94  | 471988  | 38.296  | ng | 98     |
| 17) 2-Methylphenol             | 6.98  | 107 | 455557  | 58.738  | ng | 96     |
| 18) Hexachloroethane           | 7.32  | 117 | 45785   | 11.559  | ng | # 4    |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70  | 99410   | 13.730  | ng | # 78   |
| 20) 3+4-Methylphenols          | 7.15  | 107 | 1838273 | 196.800 | ng | 87     |
| 22) Acetophenone               | 7.14  | 105 | 43268   | 4.542   | ng | # 1    |
| 24) Nitrobenzene               | 7.37  | 77  | 28959   | 3.755   | ng | # 42   |
| 25) Isophorone                 | 7.28  | 82  | 720515  | 56.042  | ng | # 64   |
| 27) 2,4-Dimethylphenol         | 7.68  | 122 | 1266428 | 224.219 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 7.81  | 93  | 45857   | 5.300   | ng | # 1    |
| 31) Naphthalene                | 8.05  | 128 | 8180251 | 420.134 | ng | # 91   |
| 32) Benzoic acid               | 7.81  | 122 | 1035863 | 280.675 | ng | # 15   |
| 33) 4-Chloroaniline            | 8.05  | 127 | 1311583 | 151.504 | ng | # 34   |
| 35) Caprolactam                | 8.72  | 113 | 16716   | 8.519   | ng | # 1    |
| 37) 2-Methylnaphthalene        | 8.72  | 142 | 745343  | 58.725  | ng | 98     |
| 45) 1,1'-Biphenyl              | 9.18  | 154 | 125163  | 7.897   | ng | 98     |
| 48) Acenaphthylene             | 9.61  | 152 | 946699  | 49.467  | ng | 99     |
| 51) Acenaphthene               | 9.78  | 154 | 56532   | 4.744   | ng | 99     |
| 54) Dibenzofuran               | 9.95  | 168 | 259987  | 15.097  | ng | 99     |
| 57) Fluorene                   | 10.30 | 166 | 203432  | 17.727  | ng | 99     |
| 66) 4-Bromophenyl-phenylether  | 10.54 | 248 | 15102   | 3.702   | ng | # 1    |
| 70) Phenanthrene               | 11.25 | 178 | 288244  | 16.248  | ng | 97     |
| 71) Anthracene                 | 11.30 | 178 | 69643   | 3.873   | ng | 98     |
| 72) Carbazole                  | 11.46 | 167 | 757374  | 42.545  | ng | 99     |

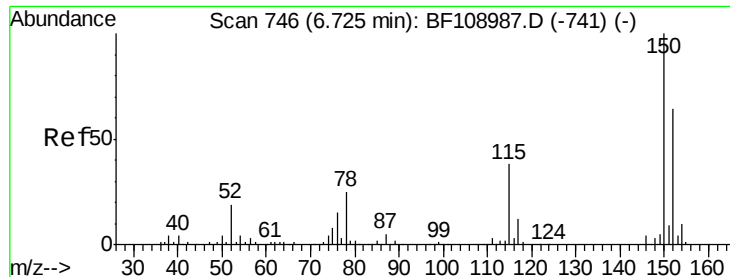
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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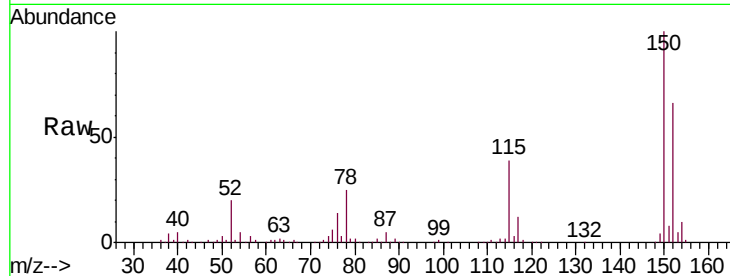




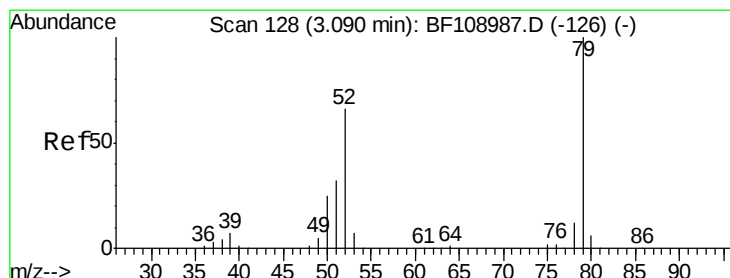
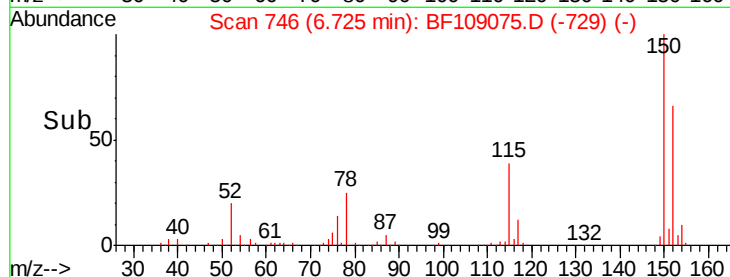
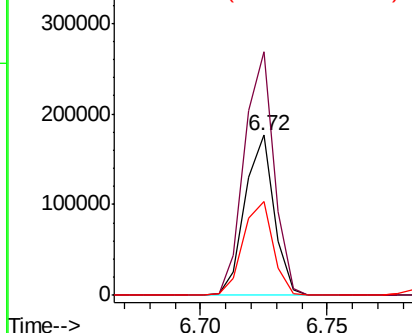
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.72 min Scan# 746  
 Delta R.T. -0.00 min  
 Lab File: BF109075.D  
 Acq: 18 Sep 2018 4:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLLOFF-03\_COMP\_FILL

Tgt Ion:152 Resp: 141087  
 Ion Ratio Lower Upper  
 152 100  
 150 151.9 124.6 186.8  
 115 58.8 50.1 75.1

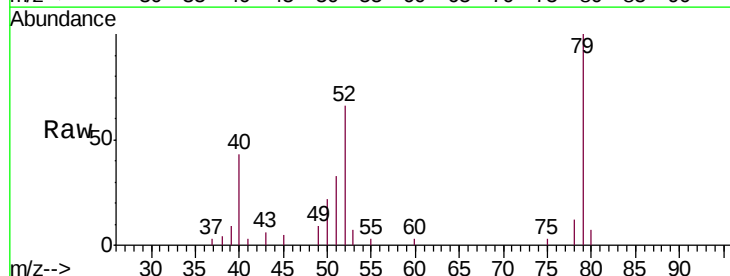


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

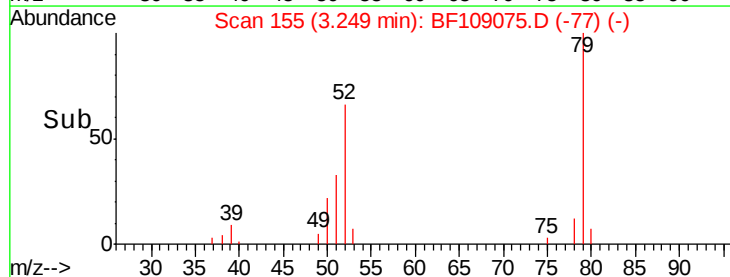
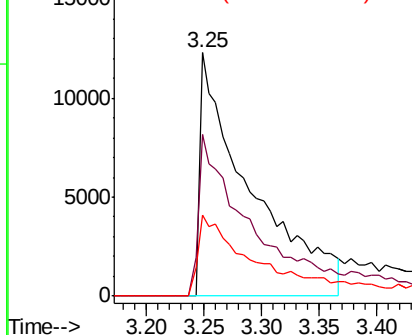


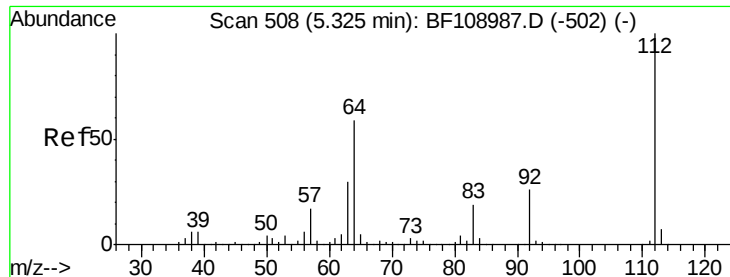
#3  
 Pyridine  
 Concen: 3.491 ng  
 RT: 3.25 min Scan# 155  
 Delta R.T. 0.16 min  
 Lab File: BF109075.D  
 Acq: 18 Sep 2018 4:27

Tgt Ion: 79 Resp: 37420  
 Ion Ratio Lower Upper  
 79 100  
 52 66.4 59.8 89.6  
 51 33.4 29.8 44.8



Abundance Ion 79.00 (78.70 to 79.70): BF1  
 Ion 52.00 (51.70 to 52.70): BF1  
 Ion 51.00 (50.70 to 51.70): BF1





#5

2-Fluorophenol

Concen: 105.038 ng

RT: 5.35 min Scan# 513

Delta R.T. 0.03 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA\_F

ClientSampleId :

ROLLOFF-03\_COMP\_FILL

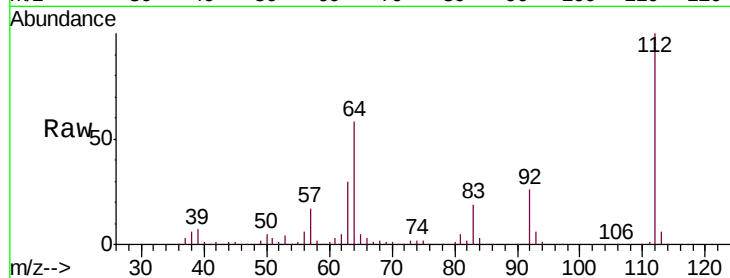
Tgt Ion: 112 Resp: 892266

Ion Ratio Lower Upper

112 100

64 57.6 47.9 71.9

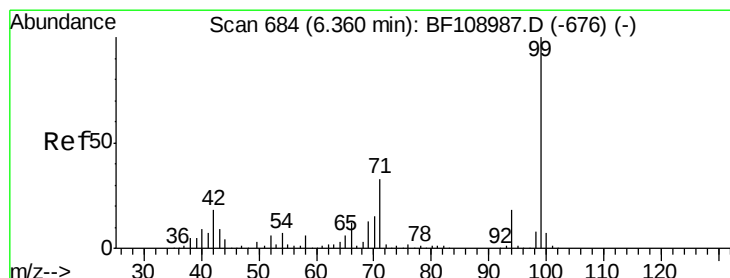
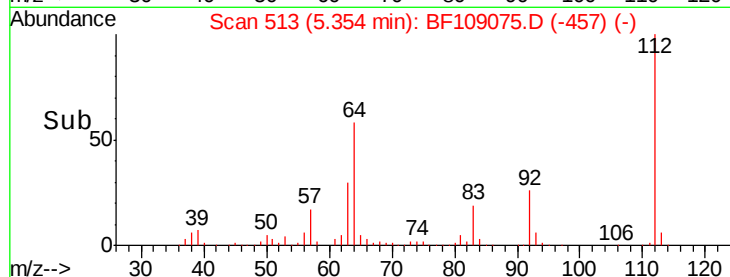
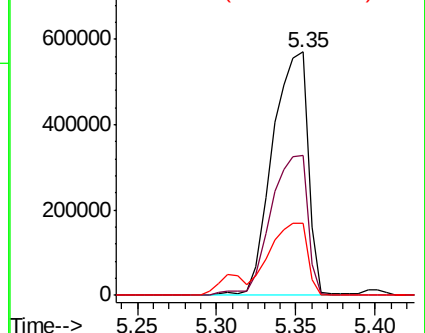
63 29.7 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): BF1

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#7

Phenol-d6

Concen: 89.837 ng

RT: 6.37 min Scan# 685

Delta R.T. 0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

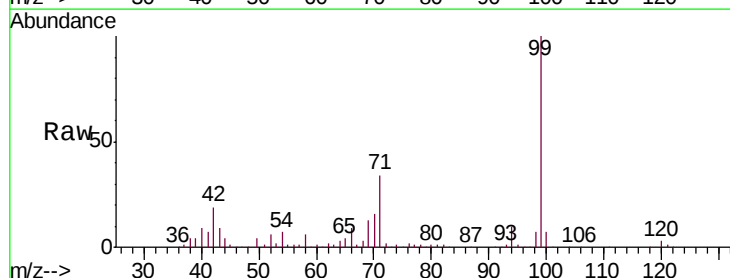
Tgt Ion: 99 Resp: 984025

Ion Ratio Lower Upper

99 100

42 19.1 14.5 21.7

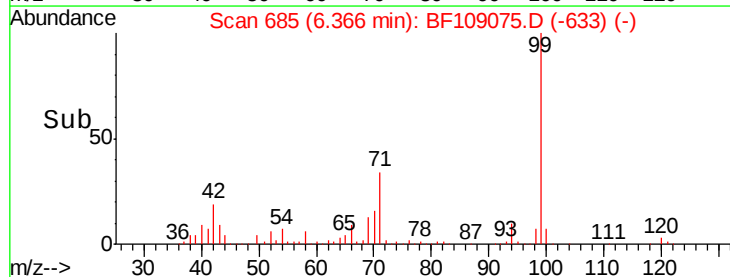
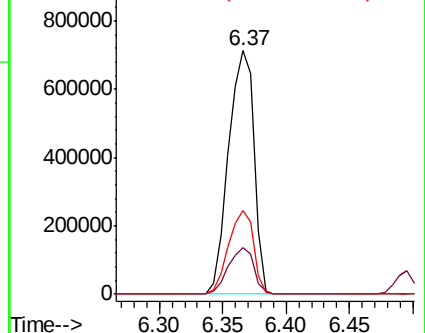
71 34.4 25.4 38.0

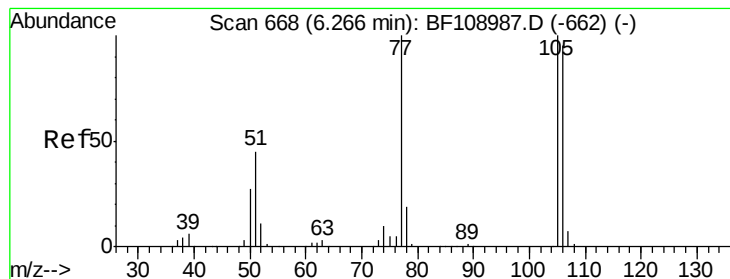


Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1





#9

Benzaldehyde

Concen: 2.421 ng

RT: 6.25 min Scan# 666

Delta R.T. -0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA\_F

ClientSampleId :

ROLLOFF-03\_COMP\_FILL

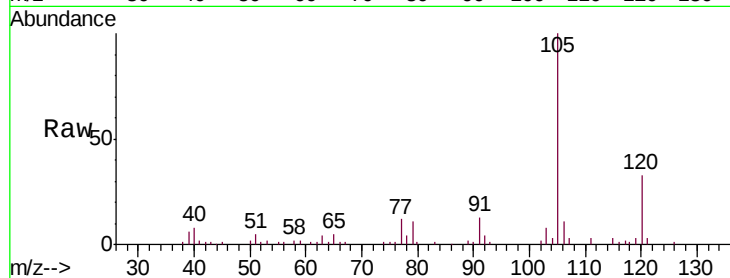
Tgt Ion: 77 Resp: 16940

Ion Ratio Lower Upper

77 100

105 817.9 81.1 121.1#

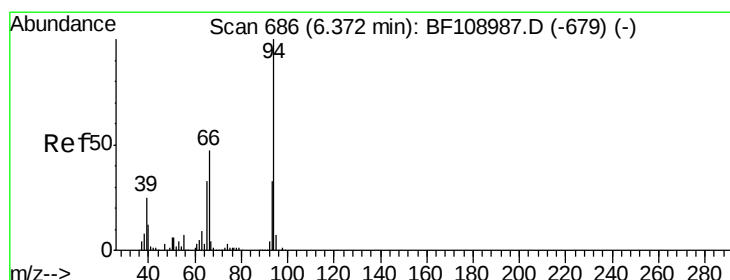
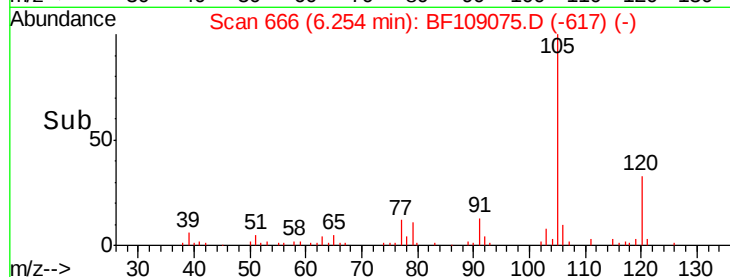
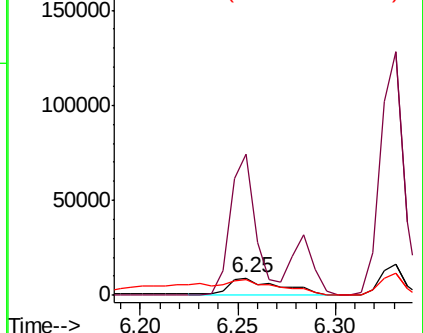
106 88.0 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#10

Phenol

Concen: 38.296 ng

RT: 6.38 min Scan# 688

Delta R.T. 0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

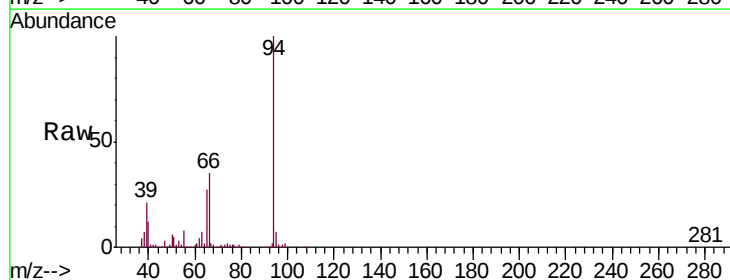
Tgt Ion: 94 Resp: 471988

Ion Ratio Lower Upper

94 100

65 26.9 7.9 47.9

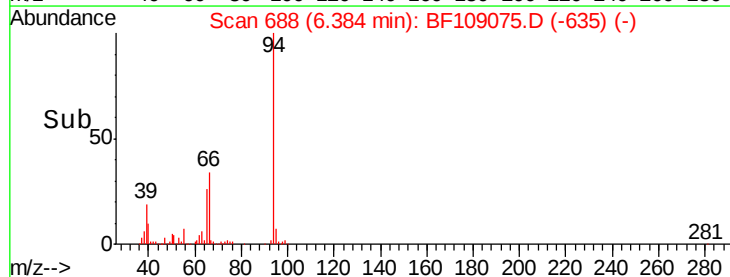
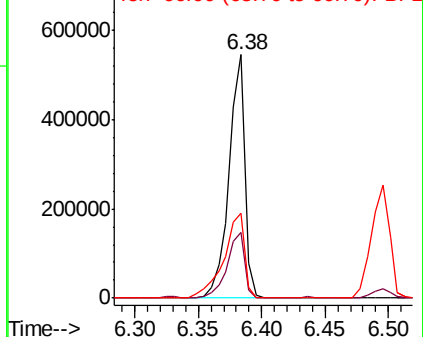
66 34.9 16.2 56.2

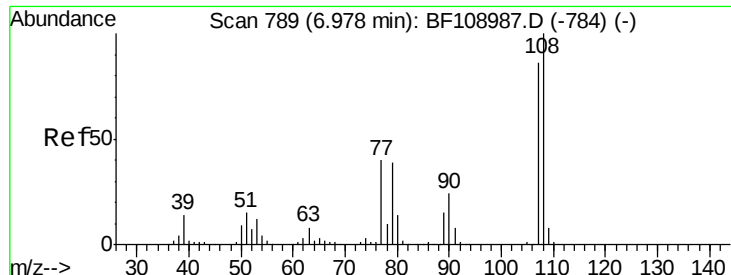


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

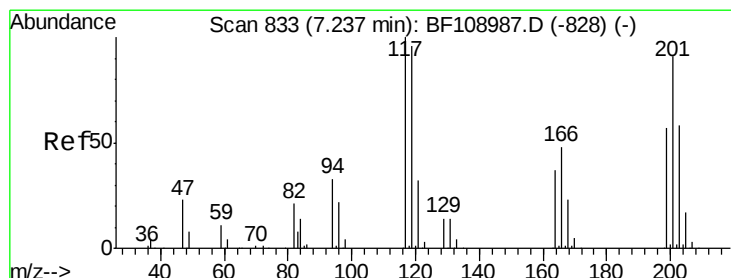
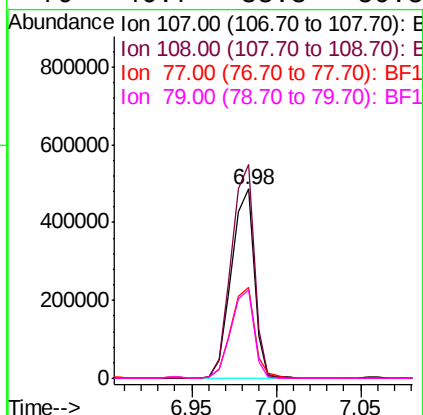
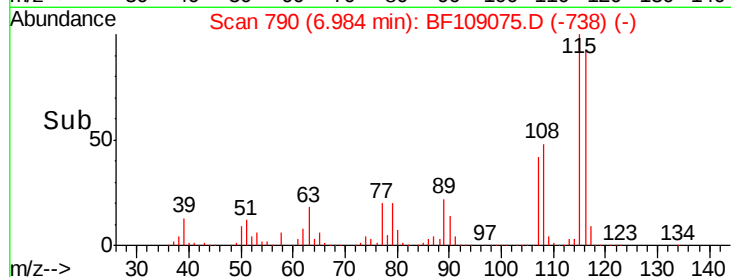
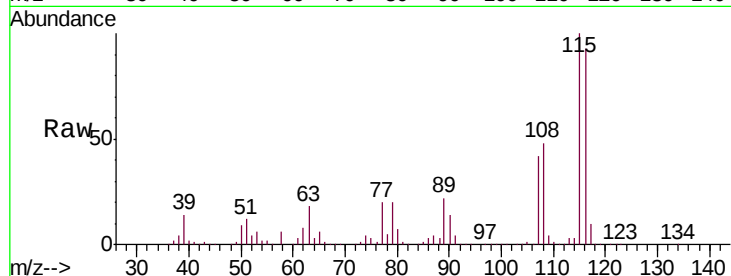




#17  
2-Methylphenol  
Concen: 58.738 ng  
RT: 6.98 min Scan# 790  
Delta R.T. 0.01 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

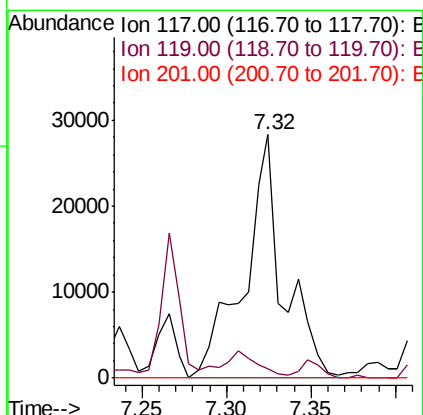
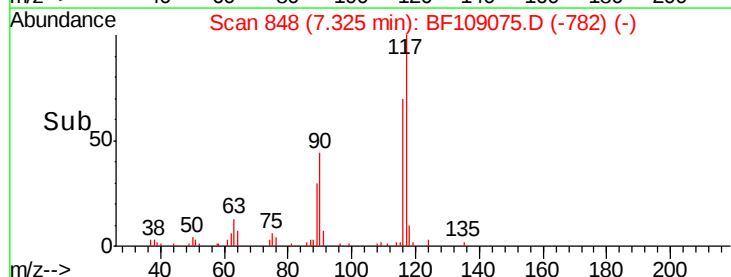
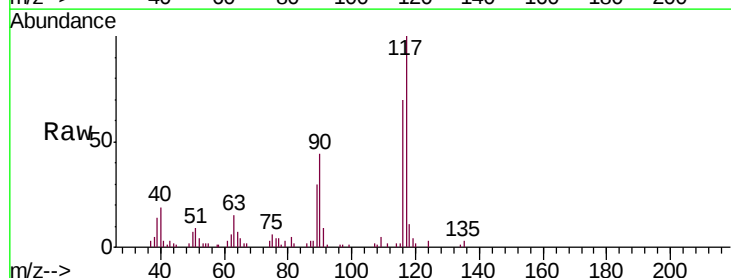
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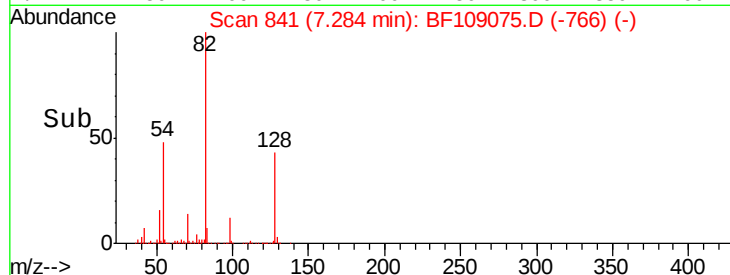
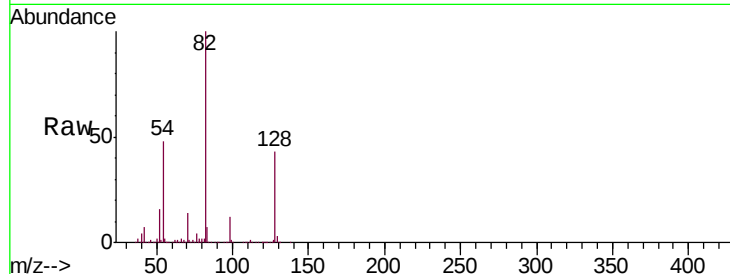
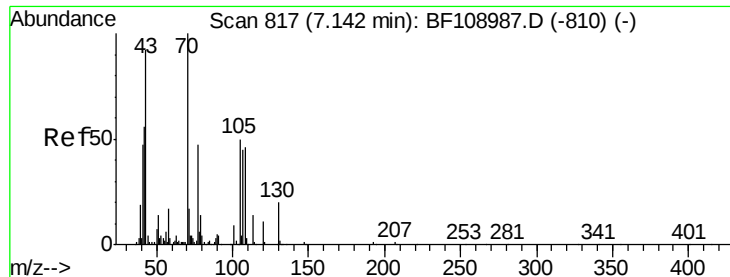
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 455557 |       |       |
| 108     | 113.1 | 91.7   | 137.5 |       |
| 77      | 48.1  | 33.8   | 50.8  |       |
| 79      | 46.7  | 33.8   | 50.8  |       |



#18  
Hexachloroethane  
Concen: 11.559 ng  
RT: 7.32 min Scan# 848  
Delta R.T. 0.09 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

| Tgt Ion | Ratio | Resp  | Lower  | Upper |
|---------|-------|-------|--------|-------|
| 117     | 100   | 45785 |        |       |
| 119     | 3.7   | 75.8  | 113.8# |       |
| 201     | 0.0   | 75.7  | 113.5# |       |

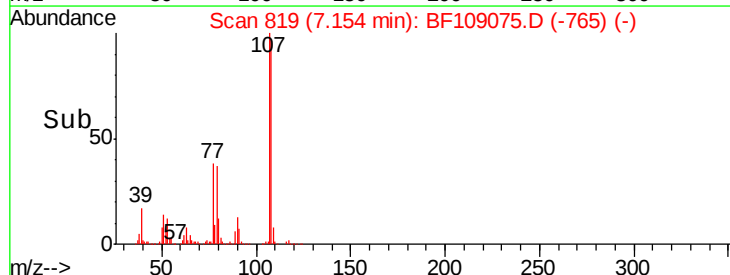
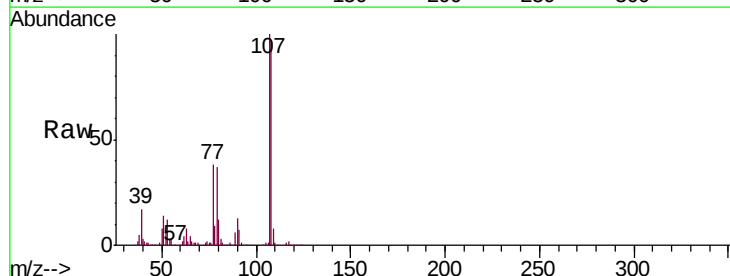
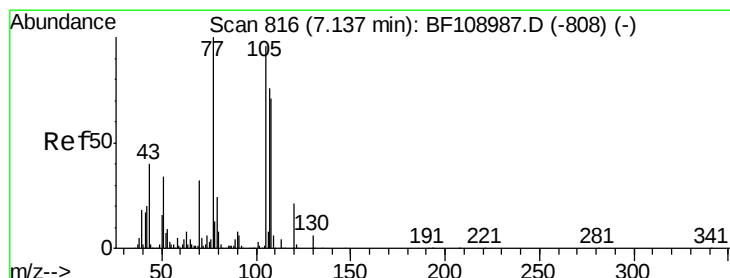
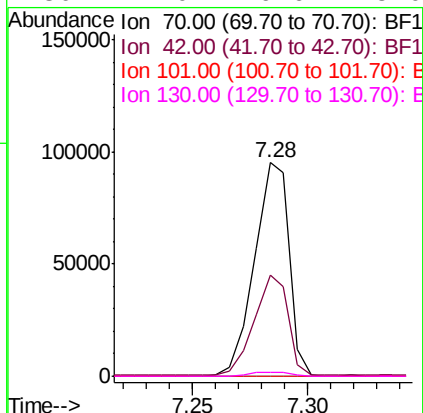




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.730 ng  
RT: 7.28 min Scan# 841  
Delta R.T. 0.14 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

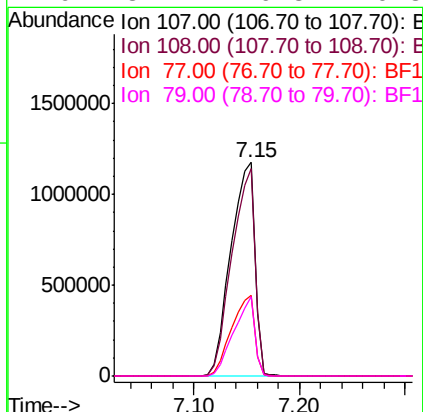
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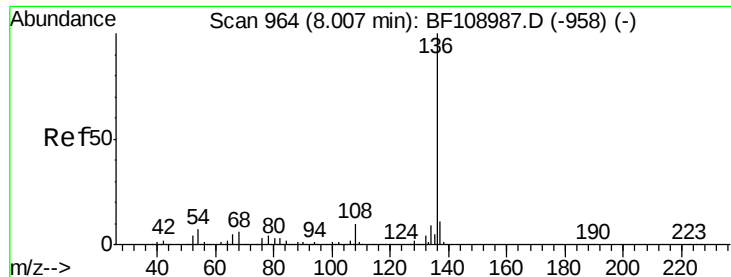
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 47.6  | 47.5  | 71.3  |
| 101     | 0.0   | 7.4   | 11.2# |
| 130     | 2.0   | 16.6  | 25.0# |



#20  
3+4-Methylphenols  
Concen: 196.800 ng  
RT: 7.15 min Scan# 819  
Delta R.T. 0.02 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 97.4  | 68.2  | 108.2 |
| 77      | 37.8  | 26.7  | 66.7  |
| 79      | 37.1  | 6.3   | 46.3  |

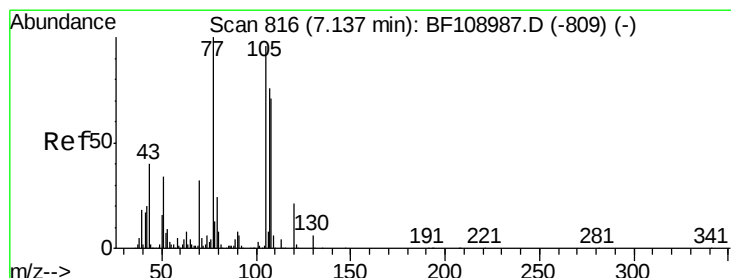
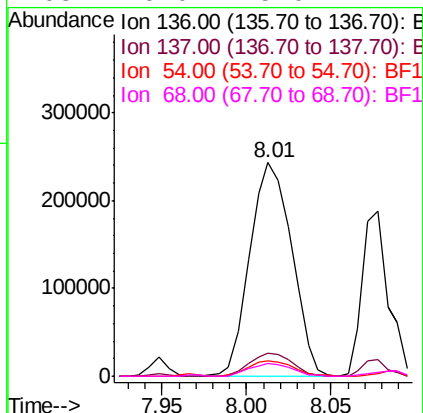
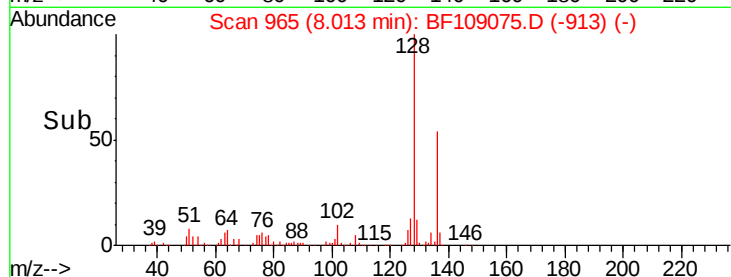
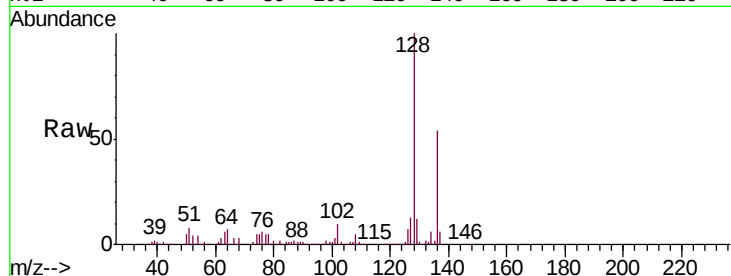




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 965  
Delta R.T. 0.01 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

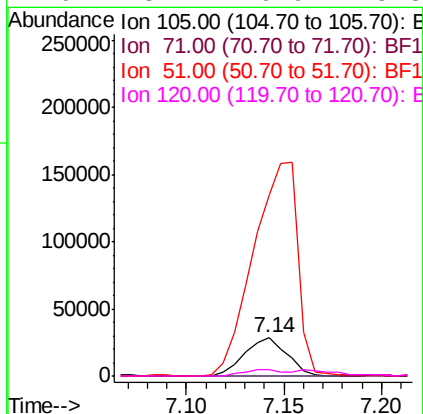
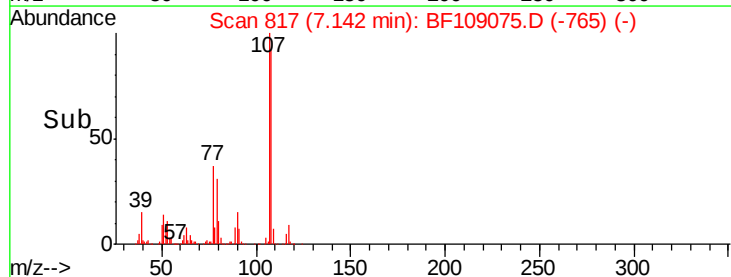
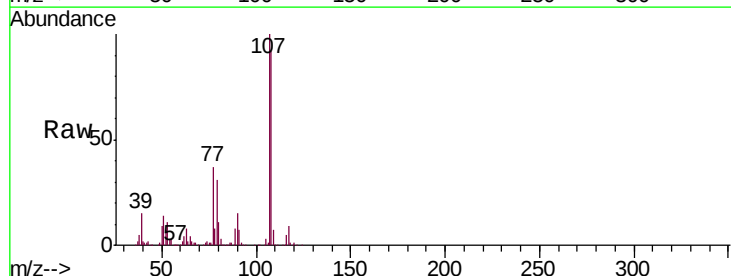
Instrument :  
BNA\_F  
ClientSampleId :  
ROLLOFF-03\_COMP\_FILL

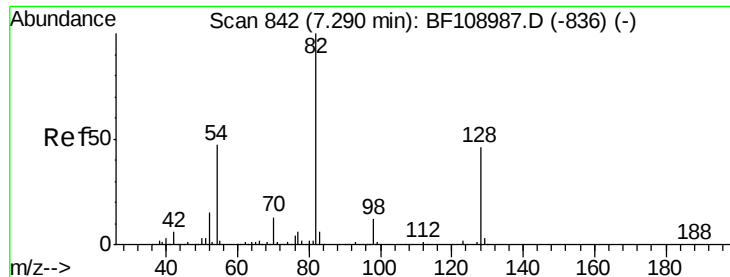
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 419500 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.9   | 13.3   |
| 54       | 7.4   | 6.6   | 9.8    |
| 68       | 6.0   | 5.0   | 7.4    |



#22  
Acetophenone  
Concen: 4.542 ng  
RT: 7.14 min Scan# 817  
Delta R.T. 0.01 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 43268 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 0.0   | 4.4   | 6.6#  |
| 51       | 478.1 | 22.3  | 33.5# |
| 120      | 18.2  | 16.9  | 25.3  |

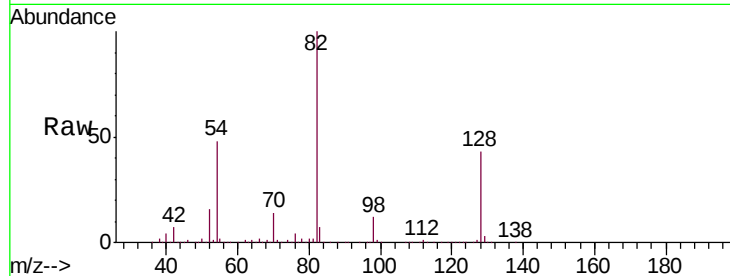




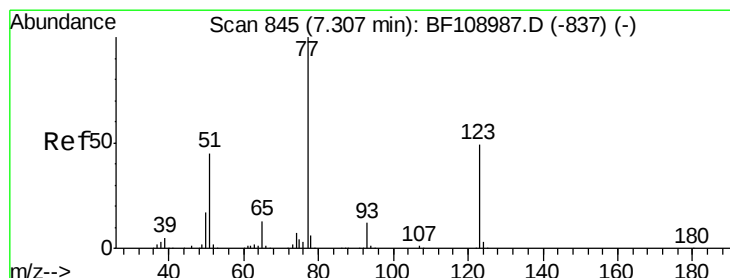
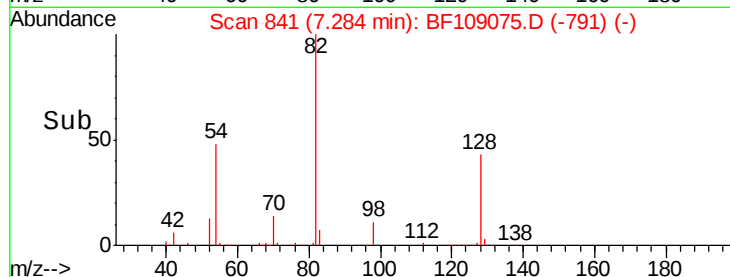
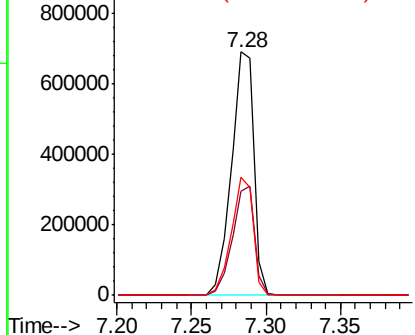
#23  
 Nitrobenzene-d5  
 Concen: 97.758 ng  
 RT: 7.28 min Scan# 841  
 Delta R.T. -0.01 min  
 Lab File: BF109075.D  
 Acq: 18 Sep 2018 4:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLLOFF-03\_COMP\_FILL

Tgt Ion: 82 Resp: 731158  
 Ion Ratio Lower Upper  
 82 100  
 128 43.0 36.1 54.1  
 54 48.5 41.4 62.2

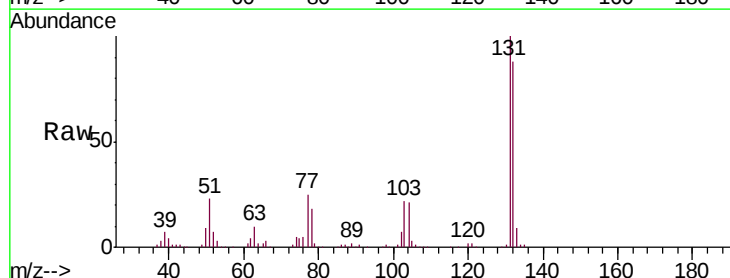


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

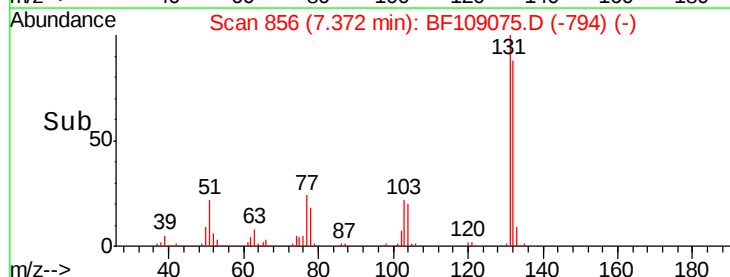
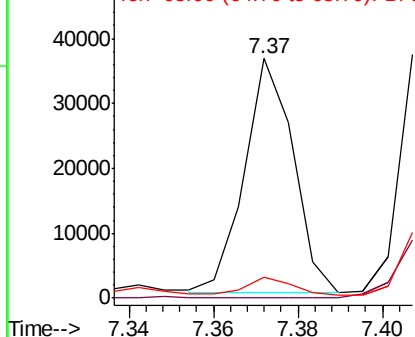


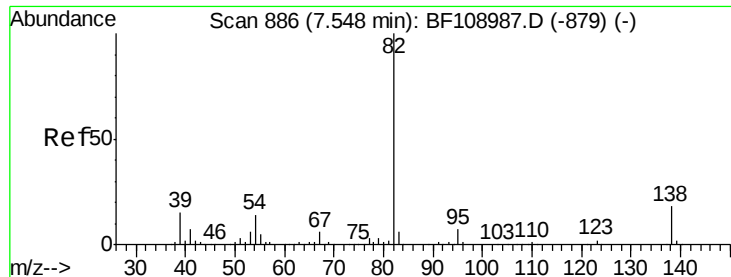
#24  
 Nitrobenzene  
 Concen: 3.755 ng  
 RT: 7.37 min Scan# 856  
 Delta R.T. 0.06 min  
 Lab File: BF109075.D  
 Acq: 18 Sep 2018 4:27

Tgt Ion: 77 Resp: 28959  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 37.9 56.9#  
 65 8.7 11.0 16.4#



Abundance Ion 77.00 (76.70 to 77.70): BF1  
 Ion 123.00 (122.70 to 123.70): BF1  
 Ion 65.00 (64.70 to 65.70): BF1





#25

Isophorone

Concen: 56.042 ng

RT: 7.28 min Scan# 841

Delta R.T. -0.26 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA\_F

ClientSampleId :

ROLLOFF-03\_COMP\_FILL

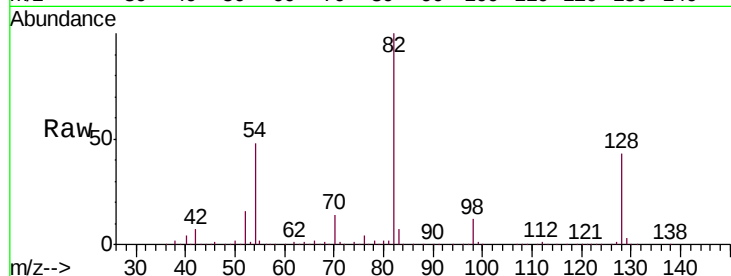
Tgt Ion: 82 Resp: 720515

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

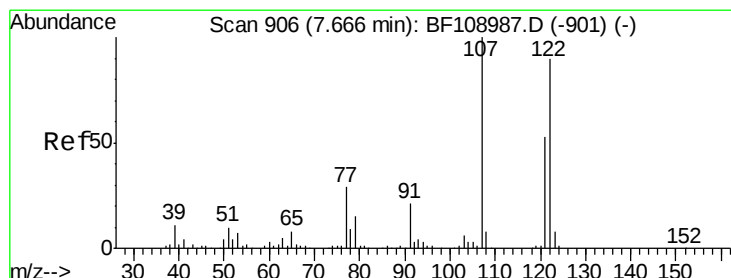
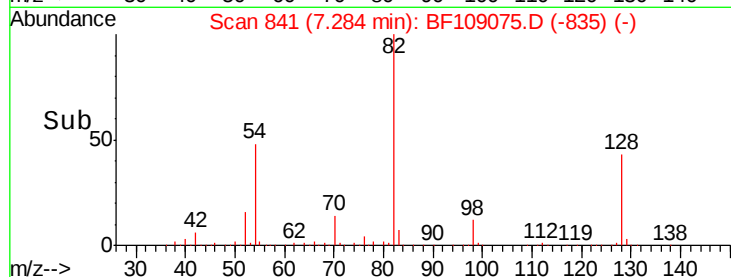
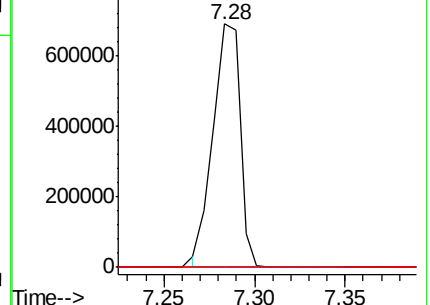
138 0.1 14.9 22.3#



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



#27

2,4-Dimethylphenol

Concen: 224.219 ng

RT: 7.68 min Scan# 908

Delta R.T. 0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

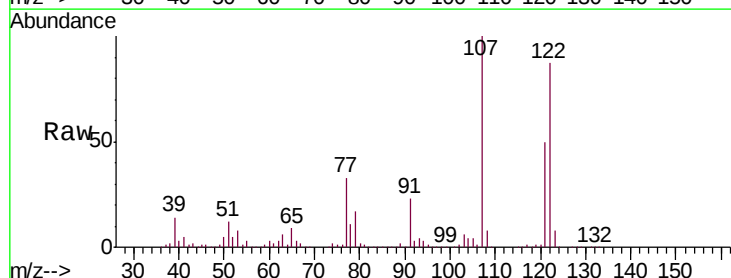
Tgt Ion: 122 Resp: 1266428

Ion Ratio Lower Upper

122 100

107 114.7 91.2 136.8

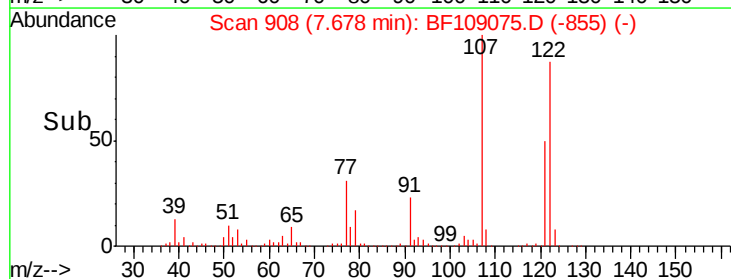
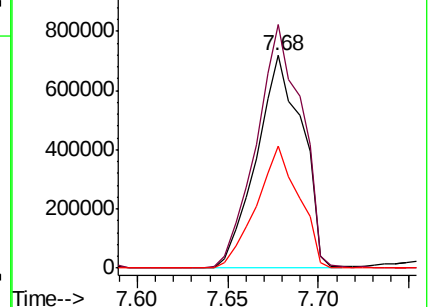
121 57.4 47.2 70.8

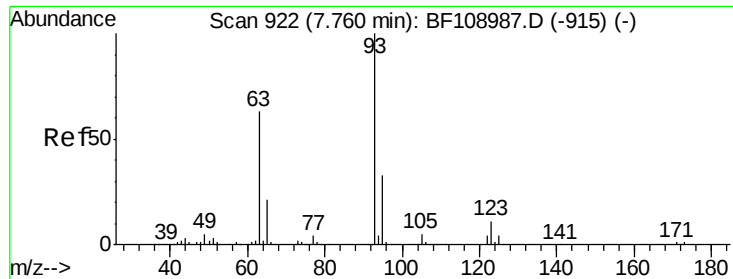


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

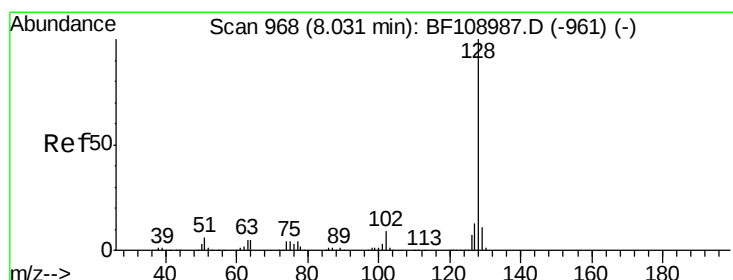
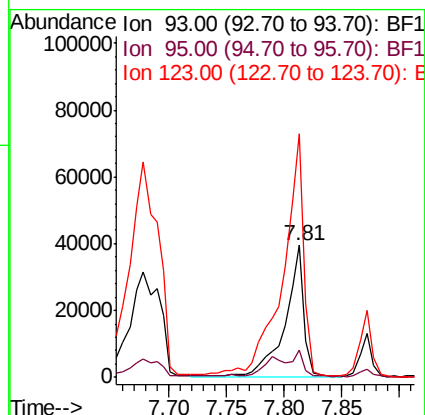
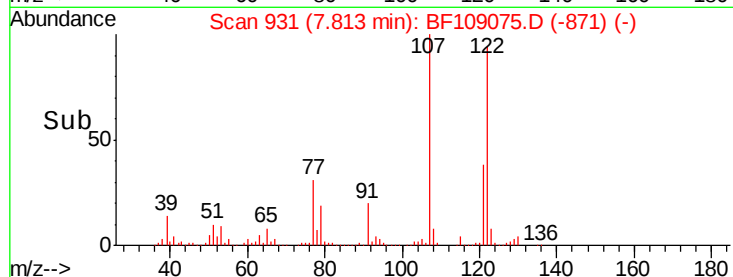
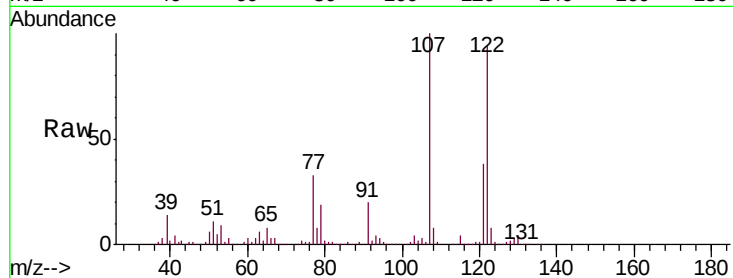




#28  
bis(2-Chloroethoxy)methane  
Concen: 5.300 ng  
RT: 7.81 min Scan# 931  
Delta R.T. 0.05 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

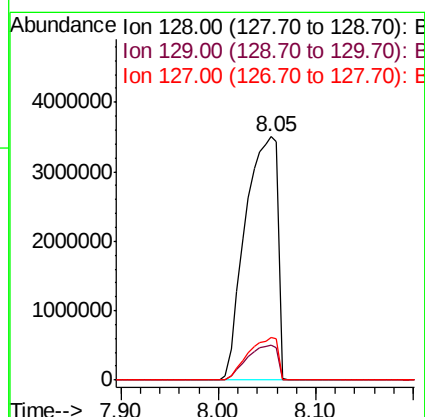
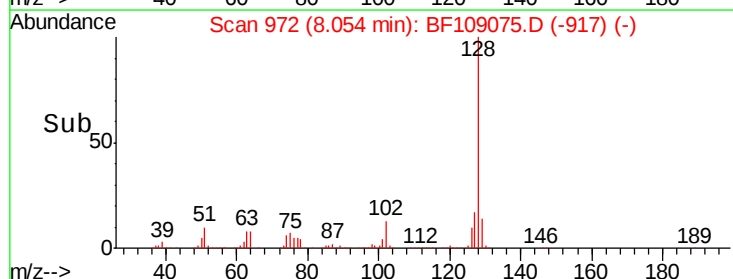
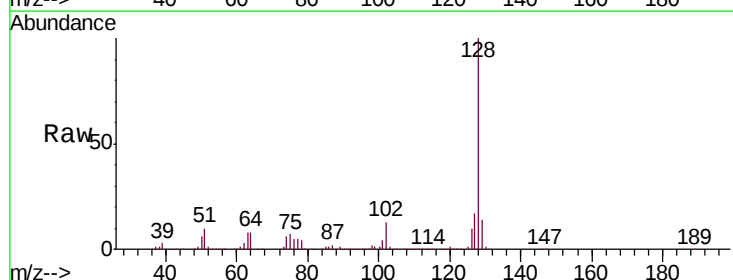
Instrument :  
BNA\_F  
ClientSampleId :  
ROLLOFF-03\_COMP\_FILL

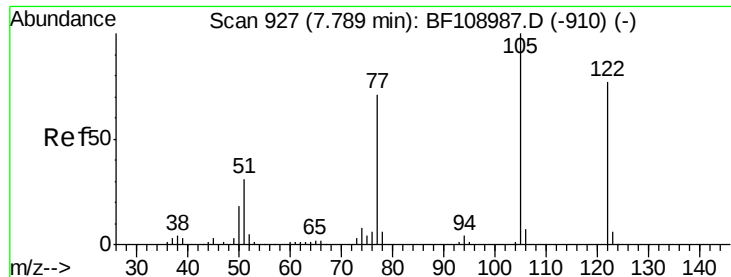
Tgt Ion: 93 Resp: 45857  
Ion Ratio Lower Upper  
93 100  
95 20.2 26.3 39.5#  
123 184.4 9.8 14.6#



#31  
Naphthalene  
Concen: 420.134 ng  
RT: 8.05 min Scan# 972  
Delta R.T. 0.02 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

Tgt Ion: 128 Resp: 8180251  
Ion Ratio Lower Upper  
128 100  
129 14.3 8.8 13.2#  
127 17.3 10.9 16.3#





#32

Benzoic acid

Concen: 280.675 ng

RT: 7.81 min Scan# 931

Delta R.T. 0.02 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA\_F

ClientSampleId :

ROLLOFF-03\_COMP\_FILL

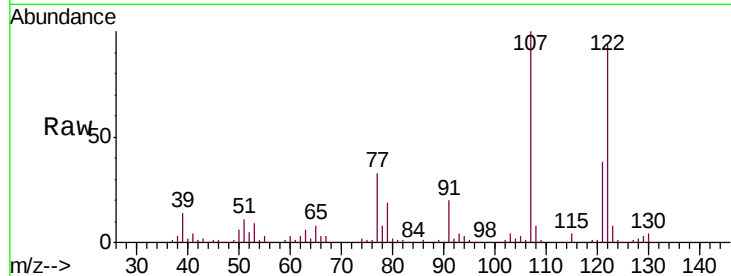
Tgt Ion:122 Resp: 1035863

Ion Ratio Lower Upper

122 100

105 3.6 101.1 141.1#

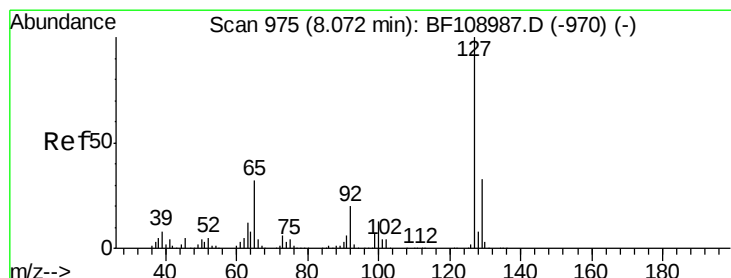
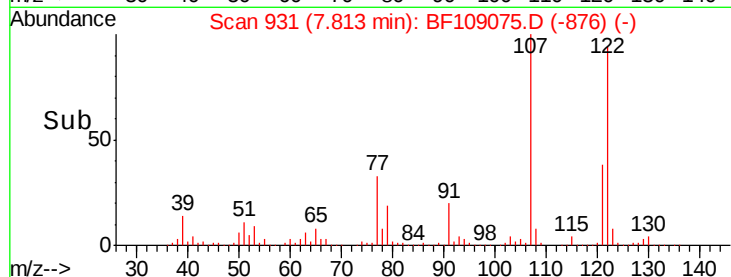
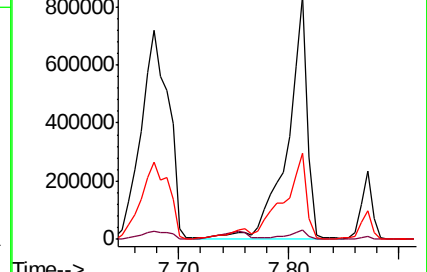
77 35.6 70.7 110.7#



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



#33

4-Chloroaniline

Concen: 151.504 ng

RT: 8.05 min Scan# 972

Delta R.T. -0.02 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Tgt Ion:127 Resp: 1311583

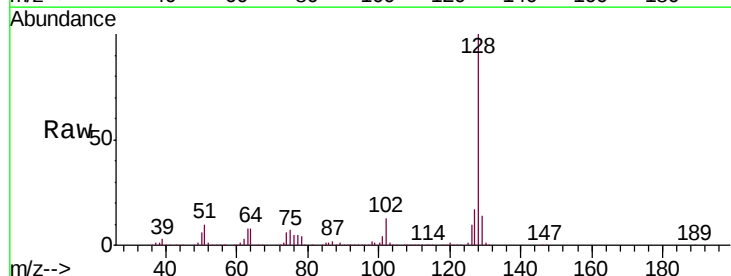
Ion Ratio Lower Upper

127 100

129 82.9 25.9 38.9#

65 0.0 25.0 37.4#

92 0.3 15.2 22.8#

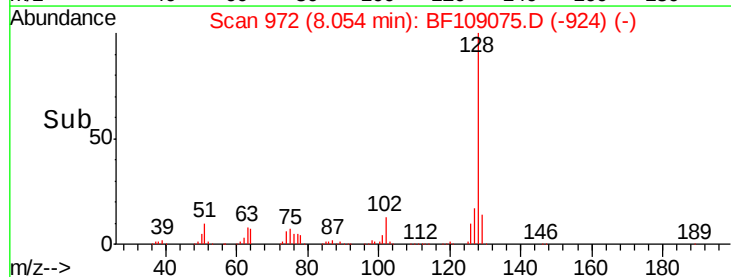
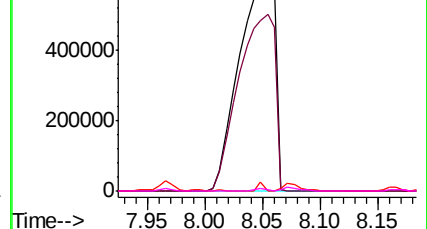


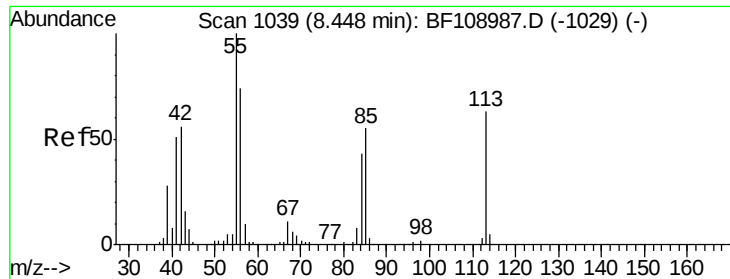
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

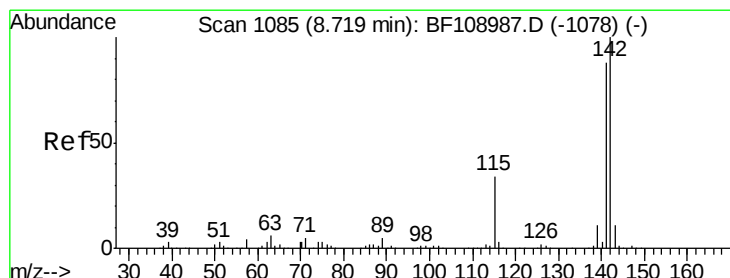
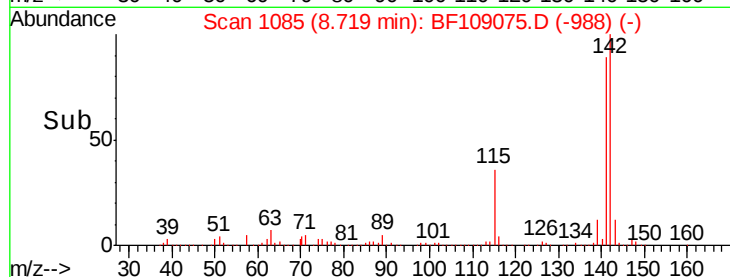
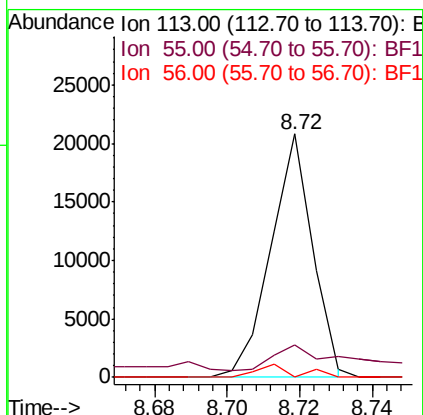
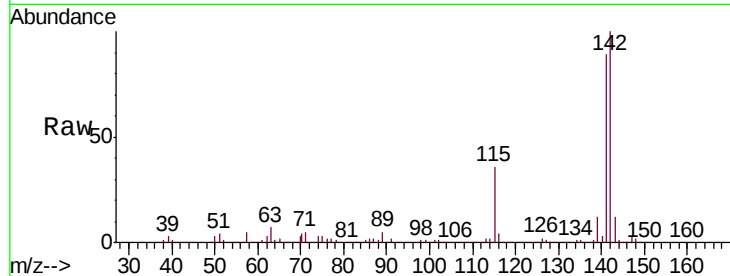




#35  
 Caprolactam  
 Concen: 8.519 ng  
 RT: 8.72 min Scan# 1085  
 Delta R.T. 0.27 min  
 Lab File: BF109075.D  
 Acq: 18 Sep 2018 4:27

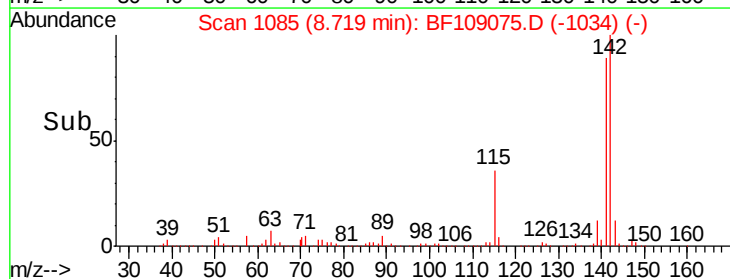
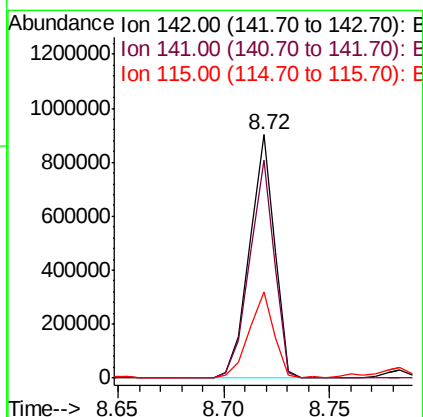
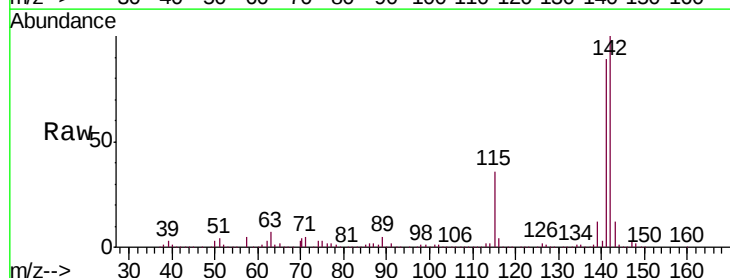
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLLOFF-03\_COMP\_FILL

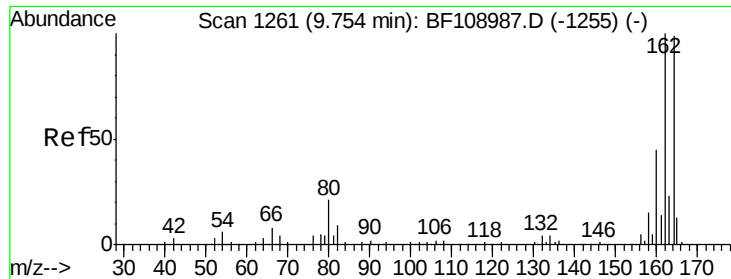
Tgt Ion:113 Resp: 16716  
 Ion Ratio Lower Upper  
 113 100  
 55 13.3 163.3 203.3#  
 56 0.0 115.7 155.7#



#37  
 2-Methylnaphthalene  
 Concen: 58.725 ng  
 RT: 8.72 min Scan# 1085  
 Delta R.T. -0.00 min  
 Lab File: BF109075.D  
 Acq: 18 Sep 2018 4:27

Tgt Ion:142 Resp: 745343  
 Ion Ratio Lower Upper  
 142 100  
 141 89.3 70.8 106.2  
 115 35.6 26.1 39.1

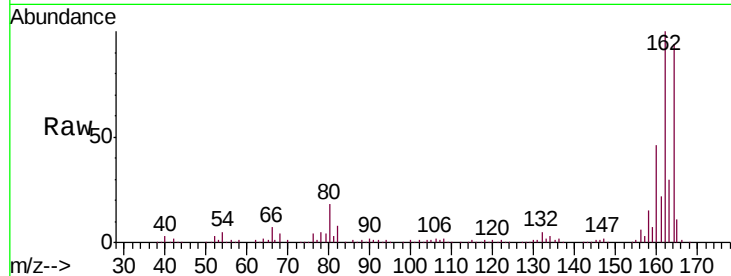




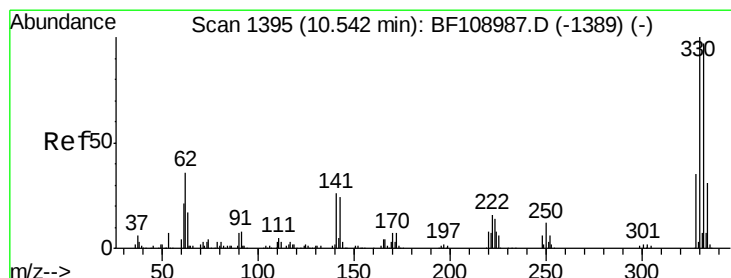
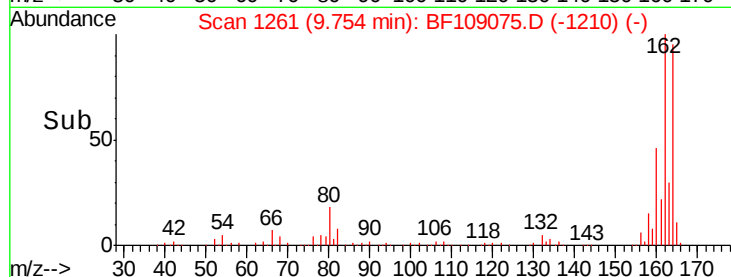
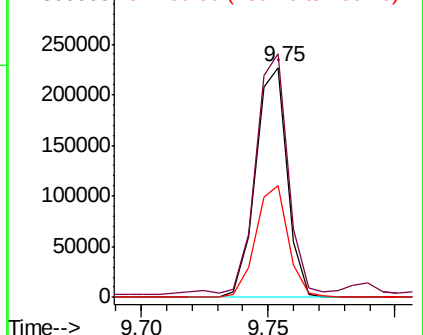
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.75 min Scan# 1261  
 Delta R.T. -0.00 min  
 Lab File: BF109075.D  
 Acq: 18 Sep 2018 4:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLLOFF-03\_COMP\_FILL

Tgt Ion:164 Resp: 198109  
 Ion Ratio Lower Upper  
 164 100  
 162 106.0 86.1 129.1  
 160 48.4 38.3 57.5

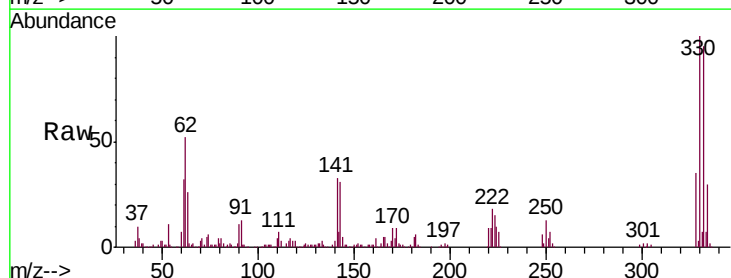


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

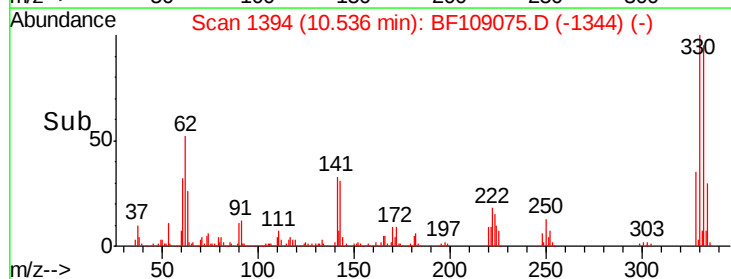
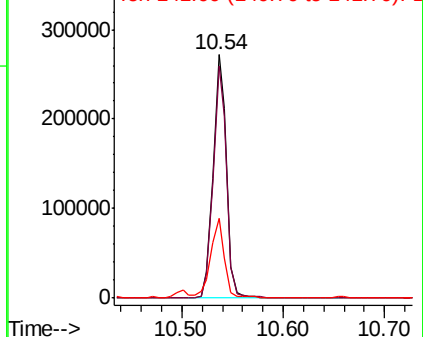


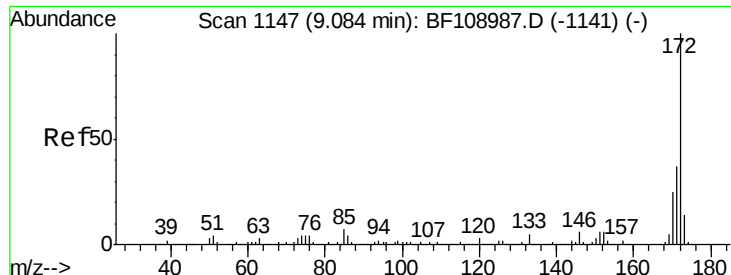
#41  
 2,4,6-Tribromophenol  
 Concen: 115.770 ng  
 RT: 10.54 min Scan# 1394  
 Delta R.T. -0.01 min  
 Lab File: BF109075.D  
 Acq: 18 Sep 2018 4:27

Tgt Ion:330 Resp: 248906  
 Ion Ratio Lower Upper  
 330 100  
 332 95.4 77.0 115.6  
 141 33.4 29.9 44.9



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

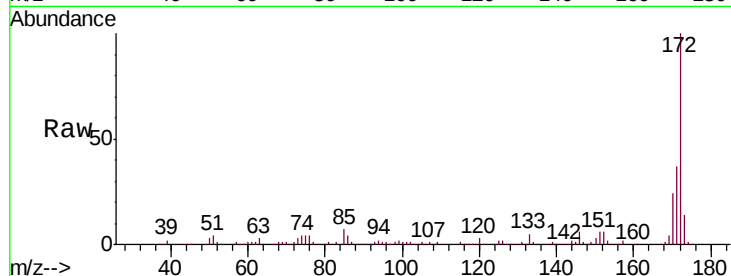




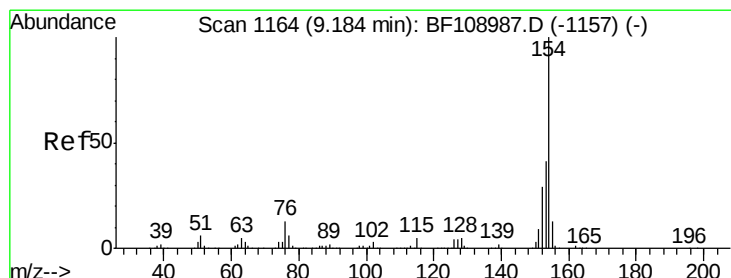
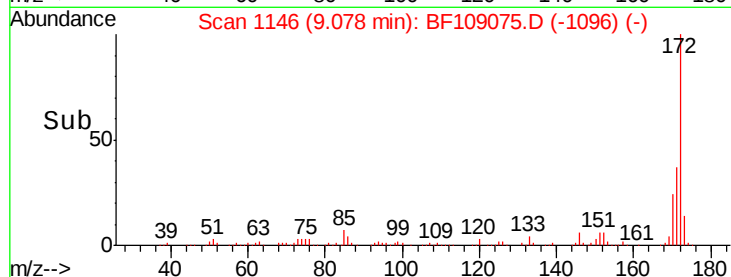
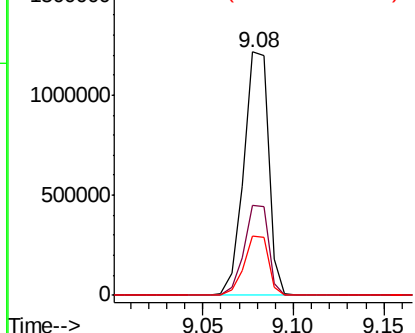
#44  
2-Fluorobiphenyl  
Concen: 91.431 ng  
RT: 9.08 min Scan# 1146  
Delta R.T. -0.01 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

Instrument :  
BNA\_F  
ClientSampleId :  
ROLLOFF-03\_COMP\_FILL

Tgt Ion:172 Resp: 1156118  
Ion Ratio Lower Upper  
172 100  
171 36.7 29.7 44.5  
170 24.4 19.6 29.4

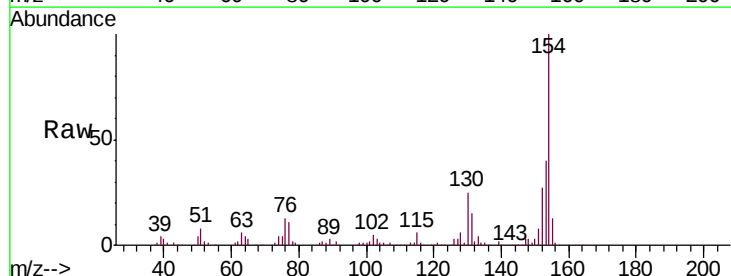


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

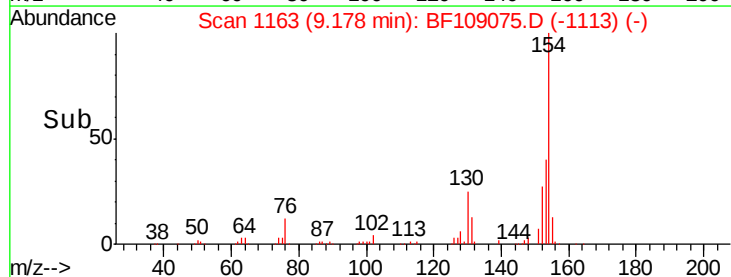
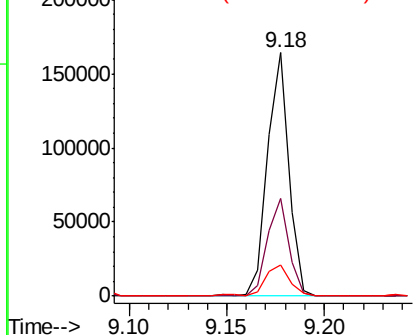


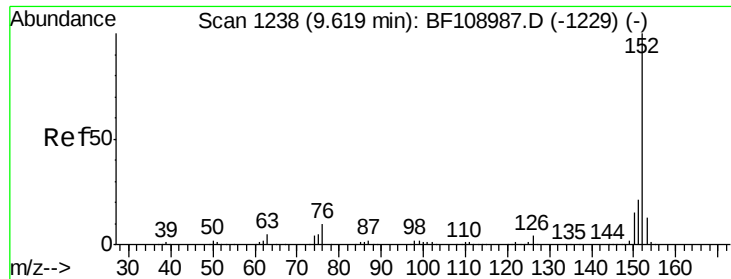
#45  
1,1'-Biphenyl  
Concen: 7.897 ng  
RT: 9.18 min Scan# 1163  
Delta R.T. -0.01 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

Tgt Ion:154 Resp: 125163  
Ion Ratio Lower Upper  
154 100  
153 40.3 21.3 61.3  
76 13.0 0.0 34.0



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF1





#48

Acenaphthylene

Concen: 49.467 ng

RT: 9.61 min Scan# 1237

Delta R.T. -0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA\_F

ClientSampleId :

ROLLOFF-03\_COMP\_FILL

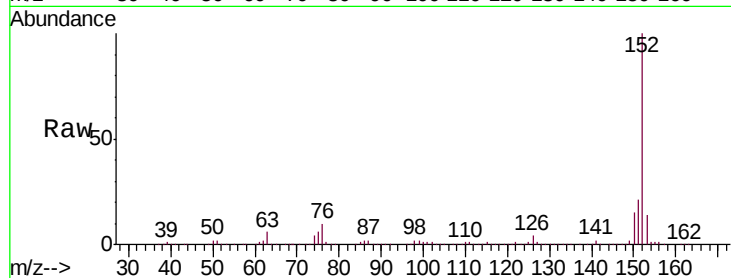
Tgt Ion:152 Resp: 946699

Ion Ratio Lower Upper

152 100

151 20.7 16.3 24.5

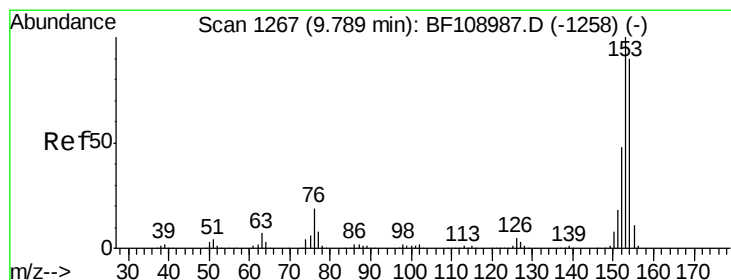
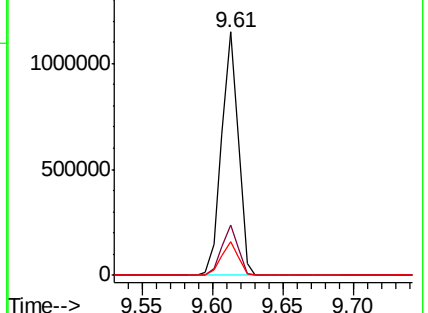
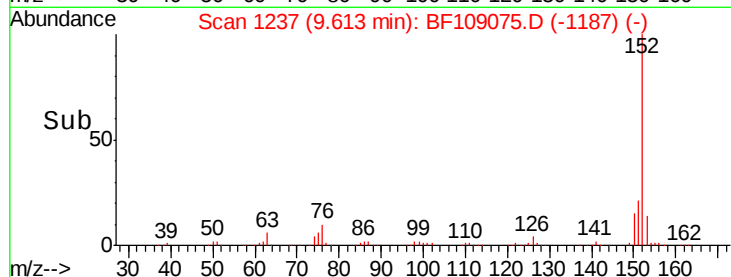
153 13.9 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#51

Acenaphthene

Concen: 4.744 ng

RT: 9.78 min Scan# 1266

Delta R.T. -0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

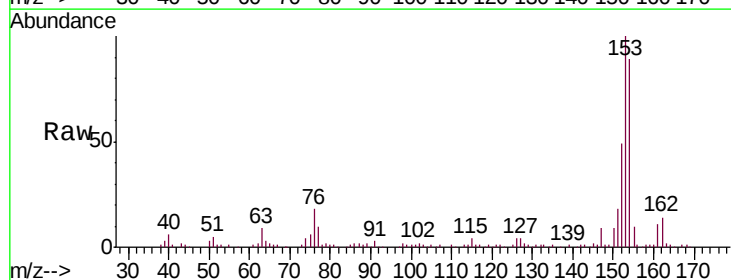
Tgt Ion:154 Resp: 56532

Ion Ratio Lower Upper

154 100

153 111.8 91.2 136.8

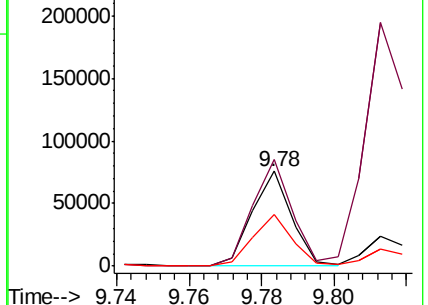
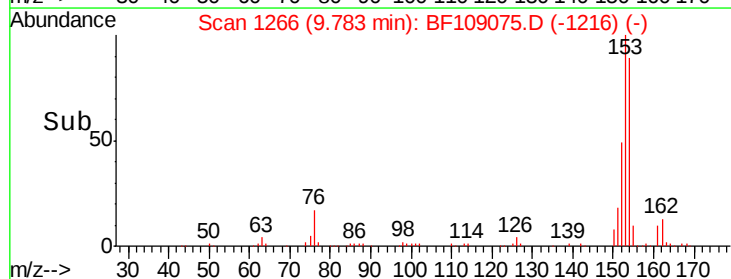
152 55.0 43.8 65.8

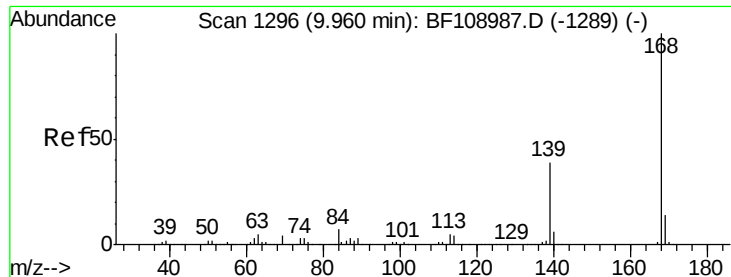


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

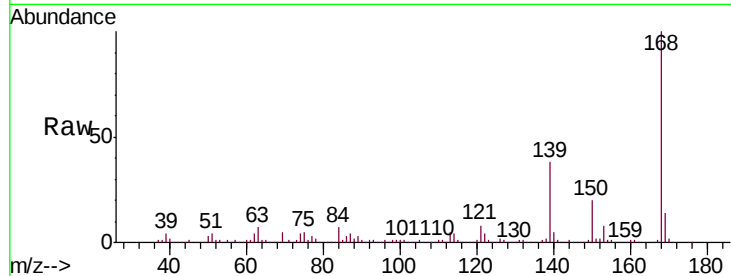




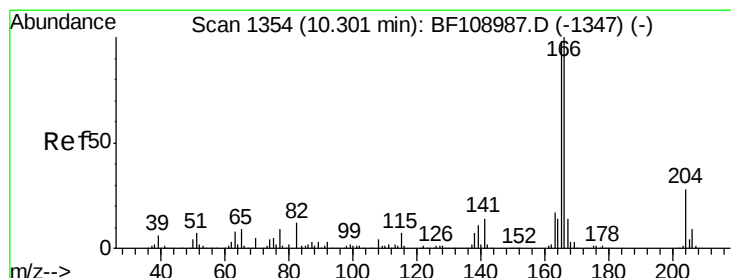
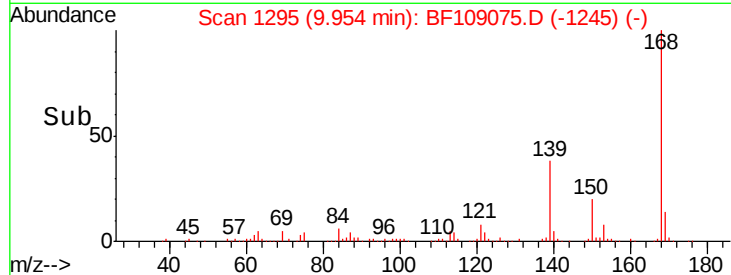
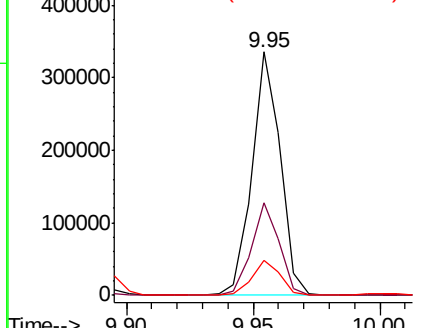
#54  
Dibenzenofuran  
Concen: 15.097 ng  
RT: 9.95 min Scan# 1295  
Delta R.T. -0.01 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

Instrument :  
BNA\_F  
ClientSampleId :  
ROLLOFF-03\_COMP\_FILL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 37.8  | 30.1  | 45.1  |
| 169     | 14.3  | 10.9  | 16.3  |

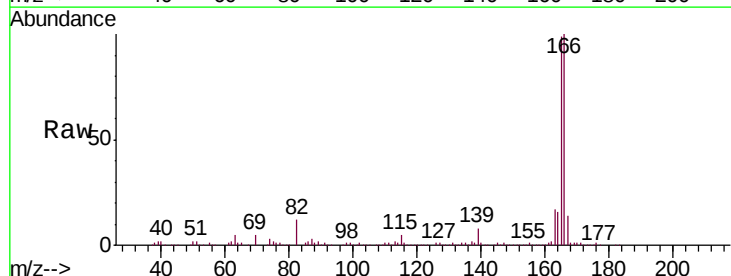


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

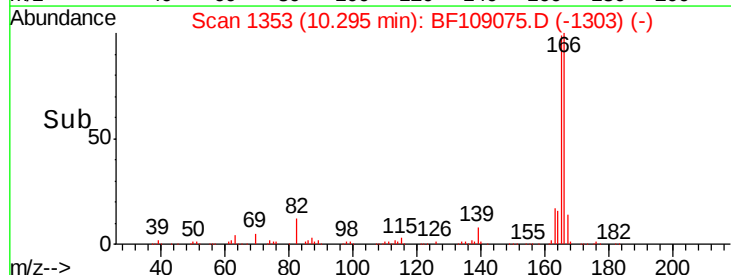
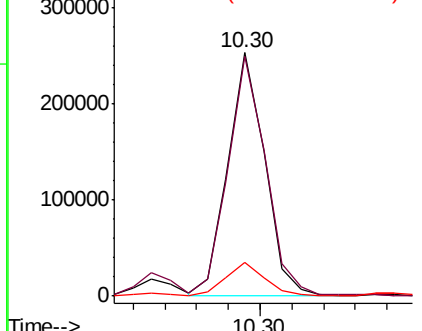


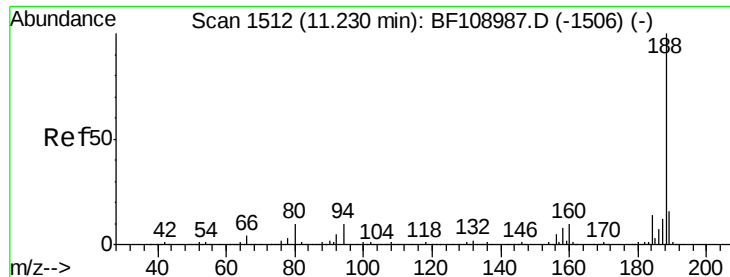
#57  
Fluorene  
Concen: 17.727 ng  
RT: 10.30 min Scan# 1353  
Delta R.T. -0.01 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.6  | 79.8  | 119.8 |
| 167     | 14.0  | 10.6  | 16.0  |



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.23 min Scan# 1512

Delta R.T. -0.00 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA\_F

ClientSampleId :

ROLLOFF-03\_COMP\_FILL

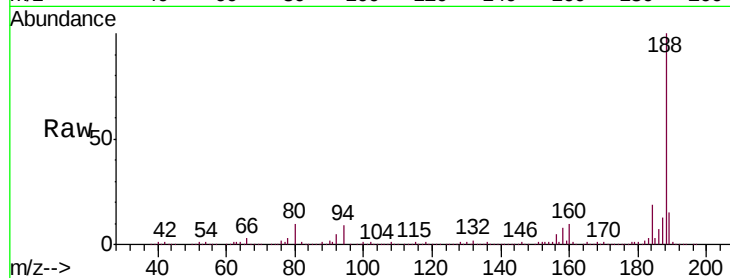
Tgt Ion:188 Resp: 361896

Ion Ratio Lower Upper

188 100

94 9.4 8.5 12.7

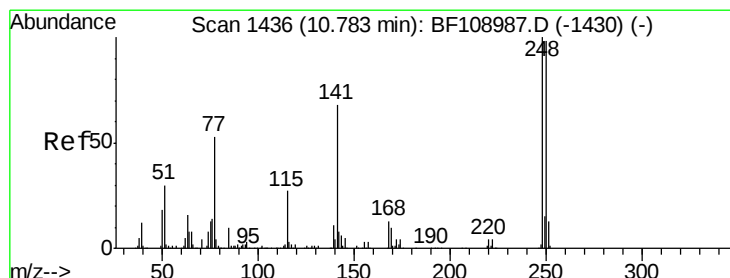
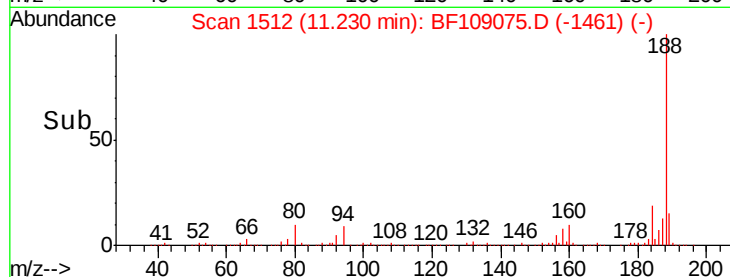
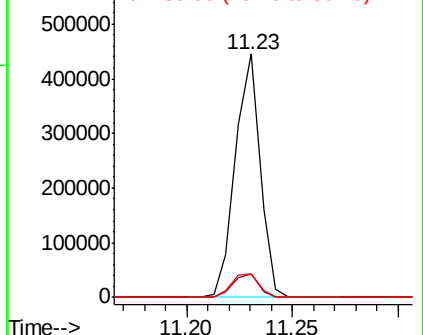
80 9.7 9.2 13.8



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



#66

4-Bromophenyl-phenylether

Concen: 3.702 ng

RT: 10.54 min Scan# 1394

Delta R.T. -0.25 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

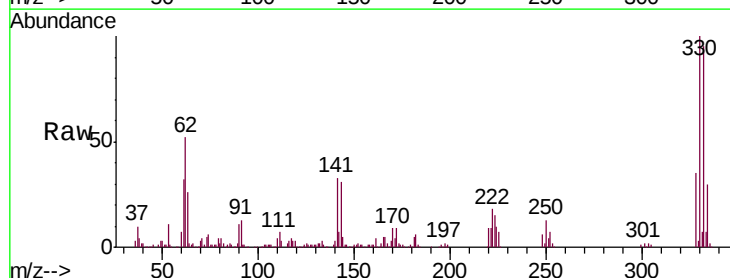
Tgt Ion:248 Resp: 15102

Ion Ratio Lower Upper

248 100

250 196.5 76.9 115.3#

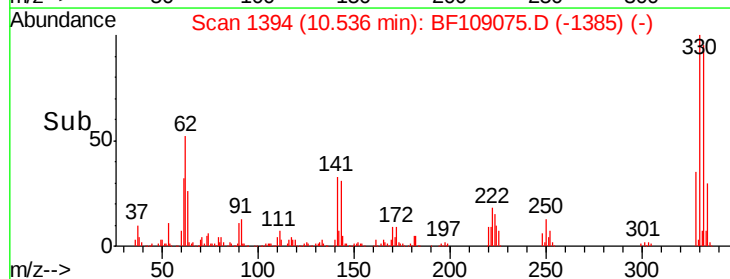
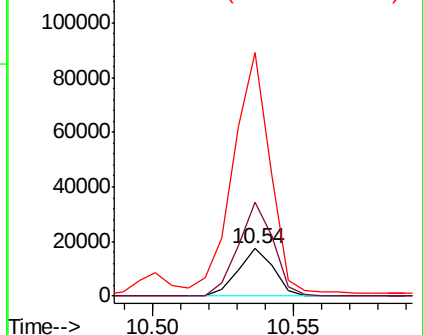
141 511.9 74.4 111.6#

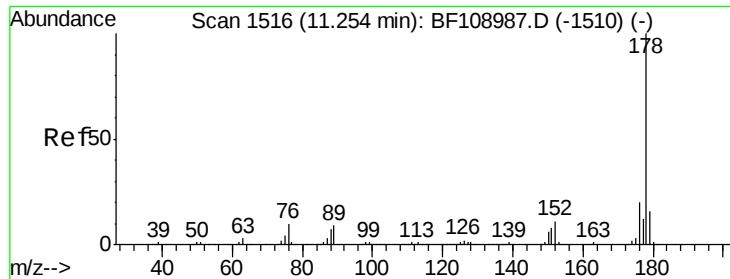


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

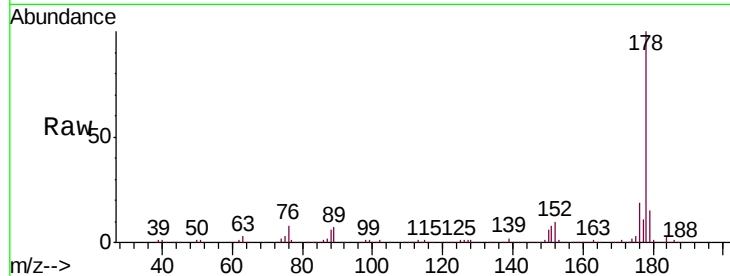




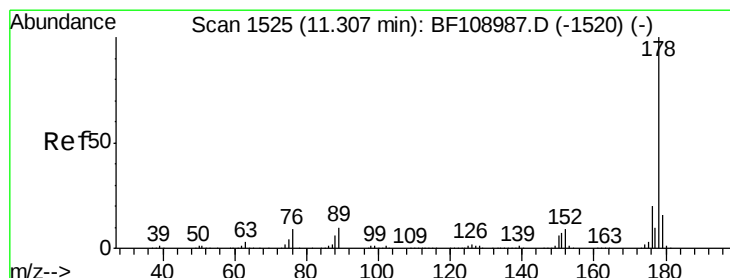
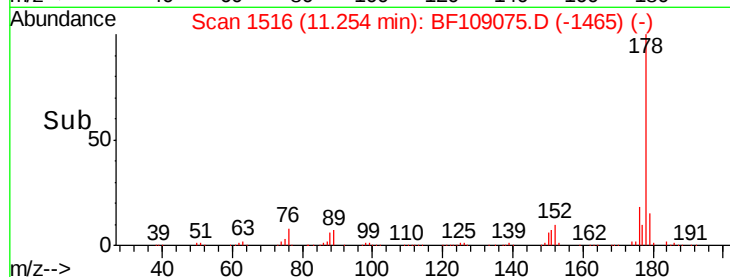
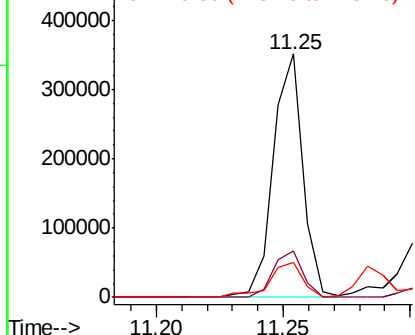
#70  
Phenanthrene  
Concen: 16.248 ng  
RT: 11.25 min Scan# 1516  
Delta R.T. -0.00 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

Instrument :  
BNA\_F  
ClientSampleId :  
ROLLOFF-03\_COMP\_FILL

Tgt Ion:178 Resp: 288244  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.8 23.8  
179 14.6 13.0 19.6

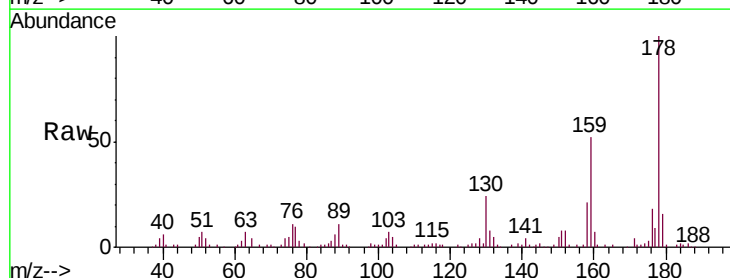


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

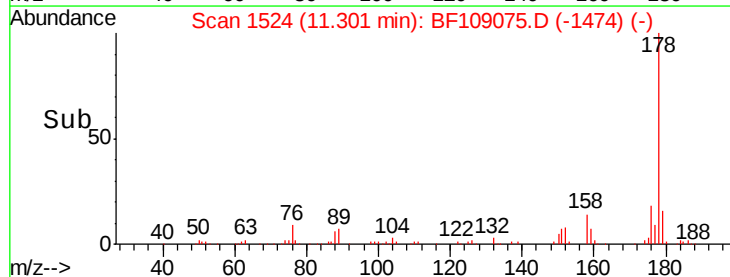
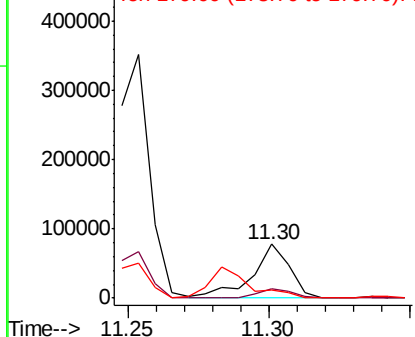


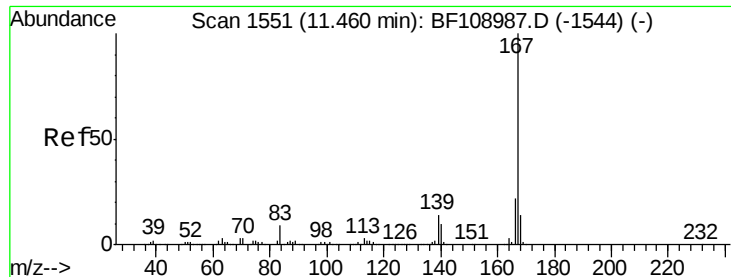
#71  
Anthracene  
Concen: 3.873 ng  
RT: 11.30 min Scan# 1524  
Delta R.T. -0.01 min  
Lab File: BF109075.D  
Acq: 18 Sep 2018 4:27

Tgt Ion:178 Resp: 69643  
Ion Ratio Lower Upper  
178 100  
176 18.0 15.4 23.2  
179 16.1 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 42.545 ng

RT: 11.46 min Scan# 1551

Delta R.T. -0.00 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

Instrument :

BNA\_F

ClientSampleId :

ROLLOFF-03\_COMP\_FILL

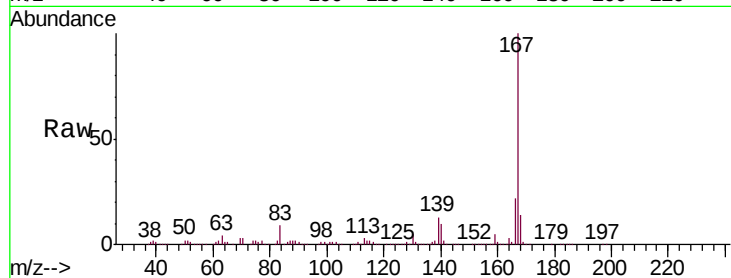
Tgt Ion:167 Resp: 757374

Ion Ratio Lower Upper

167 100

166 21.7 17.6 26.4

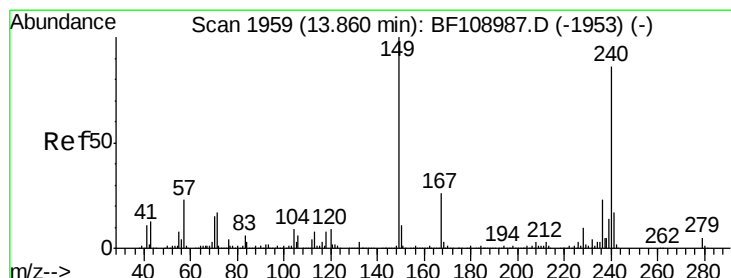
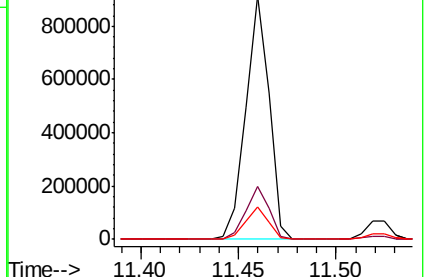
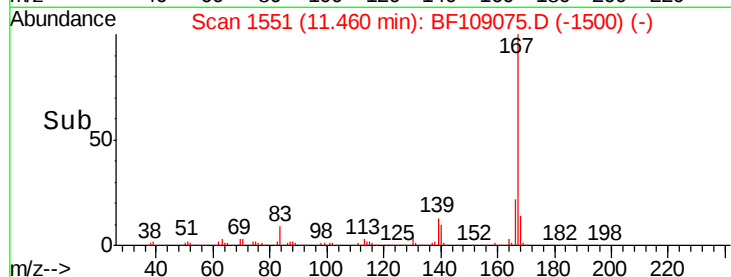
139 13.2 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.85 min Scan# 1958

Delta R.T. -0.01 min

Lab File: BF109075.D

Acq: 18 Sep 2018 4:27

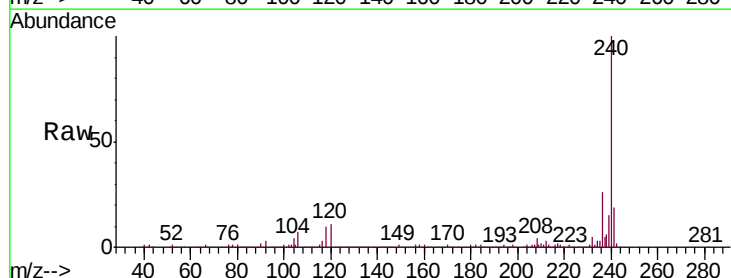
Tgt Ion:240 Resp: 347967

Ion Ratio Lower Upper

240 100

120 11.1 9.5 14.3

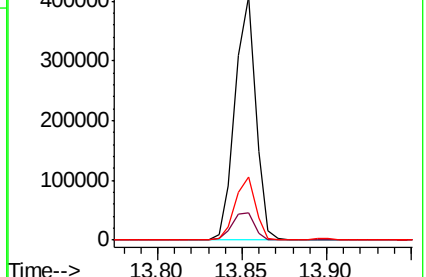
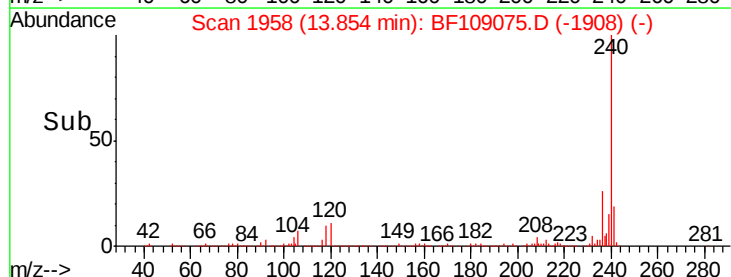
236 25.9 20.7 31.1

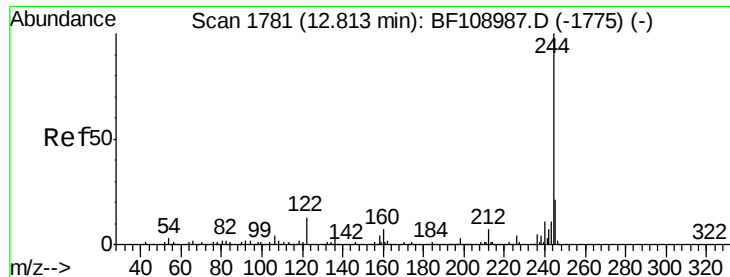


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

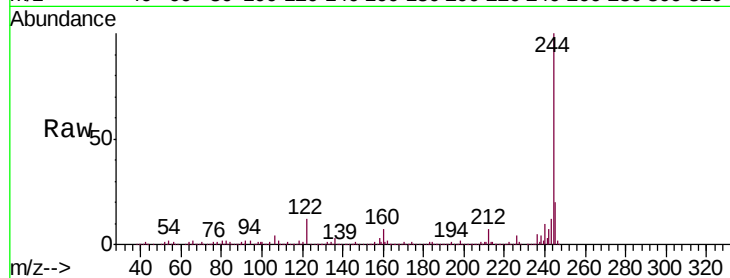




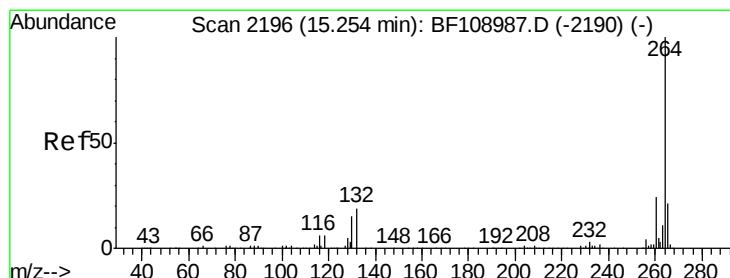
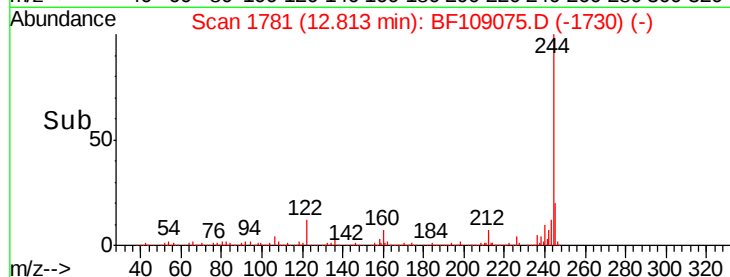
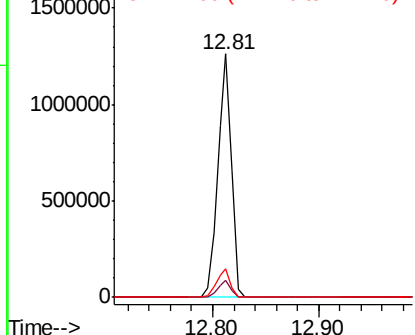
#78  
 Terphenyl-d14  
 Concen: 78.223 ng  
 RT: 12.81 min Scan# 1781  
 Delta R.T. -0.00 min  
 Lab File: BF109075.D  
 Acq: 18 Sep 2018 4:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ROLLOFF-03\_COMP\_FILL

Tgt Ion:244 Resp: 1148350  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.4 8.0  
 122 11.6 11.0 16.4

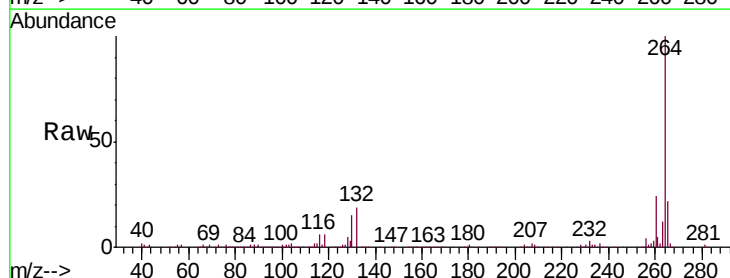


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.25 min Scan# 2196  
 Delta R.T. -0.00 min  
 Lab File: BF109075.D  
 Acq: 18 Sep 2018 4:27

Tgt Ion:264 Resp: 259362  
 Ion Ratio Lower Upper  
 264 100  
 260 23.9 19.2 28.8  
 265 21.7 17.5 26.3



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

