

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012916\  
 Data File : BF084654.D  
 Acq On : 30 Jan 2016 00:05  
 Operator : SJ/IZ  
 Sample : H1273-02  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-B009(25-27)

Quant Time: Jan 30 00:55:59 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF012916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 29 12:54:53 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 178380   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.01  | 136  | 763747   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.76  | 164  | 347403   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.24 | 188  | 688402   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.87 | 240  | 590384   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.25 | 264  | 424918   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.32  | 112  | 1216763  | 102.97 | ng    | 0.01     |
| 7) Phenol-d6                | 6.37  | 99   | 1701863  | 120.16 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 949274   | 69.46  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 396379   | 108.86 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.09  | 172  | 1893237  | 81.00  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.83 | 244  | 1796540  | 68.73  | ng    | 0.00     |

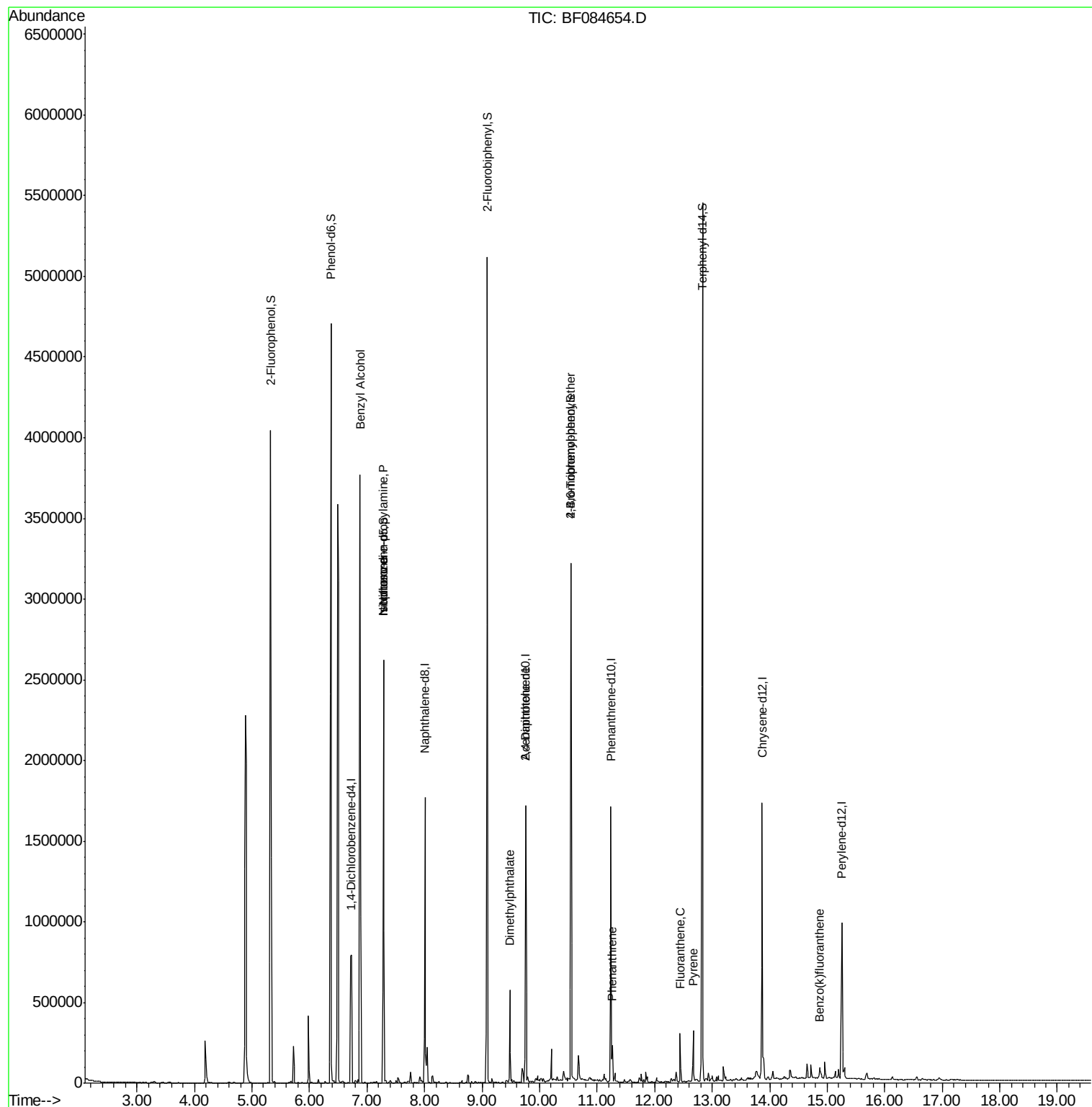
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 15) Benzyl Alcohol             | 6.88  | 79   | 19800    | 2.05  | ng    | # 47   |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 124943   | 14.44 | ng    | # 72   |
| 25) Isophorone                 | 7.29  | 82   | 816046   | 31.87 | ng    | # 66   |
| 49) Dimethylphthalate          | 9.48  | 163  | 231463   | 8.88  | ng    | # 89   |
| 56) 2,4-Dinitrotoluene         | 9.76  | 165  | 45179    | 6.06  | ng    | # 21   |
| 66) 4-Bromophenyl-phenylether  | 10.54 | 248  | 23851    | 3.08  | ng    | # 1    |
| 70) Phenanthrene               | 11.26 | 178  | 103049   | 2.71  | ng    | 97     |
| 74) Fluoranthene               | 12.44 | 202  | 121000   | 3.22  | ng    | 99     |
| 77) Pyrene                     | 12.67 | 202  | 127397   | 2.86  | ng    | 99     |
| 88) Benzo(k)fluoranthene       | 14.87 | 252  | 49642    | 2.18  | ng    | 97     |

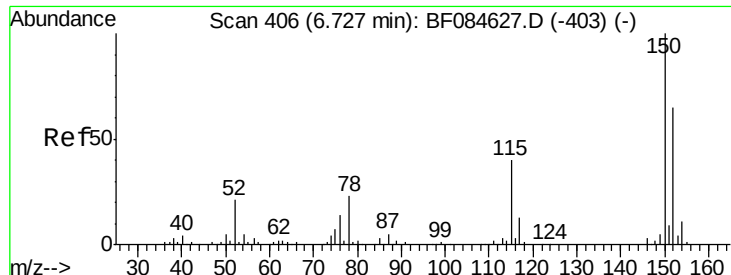
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jan 29 12:54:53 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.73 min Scan# 406

Delta R.T. -0.00 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

Instrument :

BNA\_F

ClientSampleId :

SUP-B009(25-27)

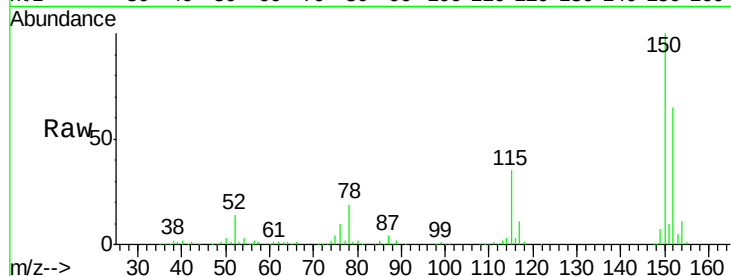
Tgt Ion:152 Resp: 178380

Ion Ratio Lower Upper

152 100

150 153.8 123.0 184.4

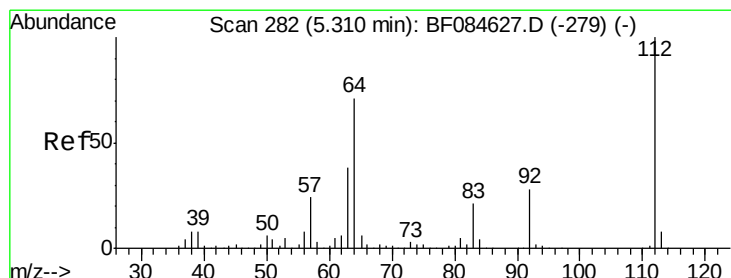
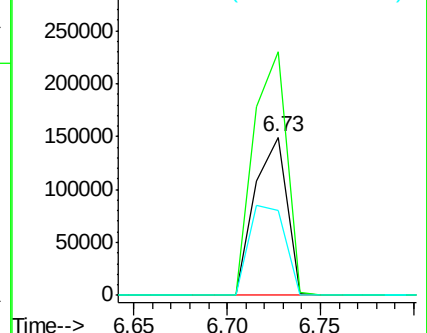
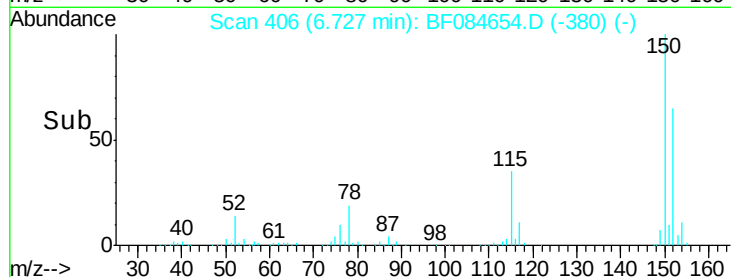
115 53.4 51.4 77.2



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: 102.97 ng

RT: 5.32 min Scan# 283

Delta R.T. 0.01 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

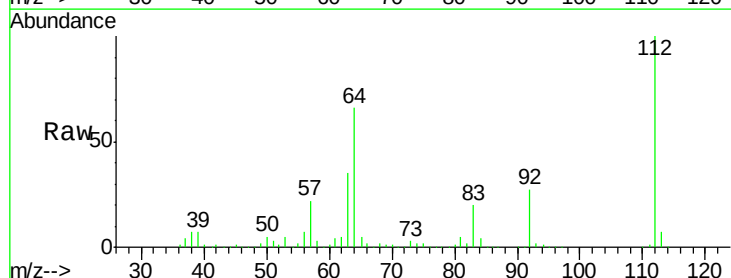
Tgt Ion:112 Resp: 1216763

Ion Ratio Lower Upper

112 100

64 66.0 36.6 55.0#

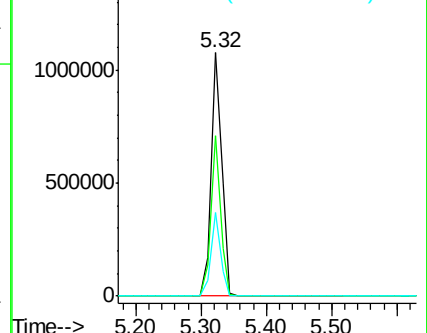
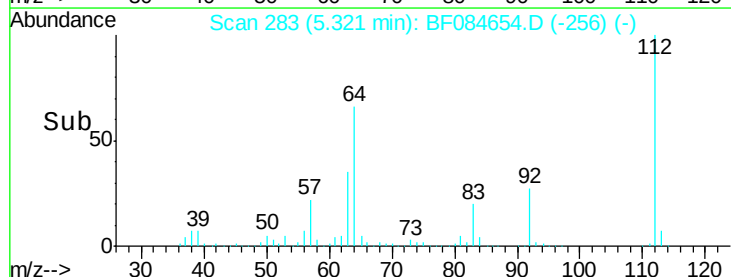
63 34.5 19.4 29.0#

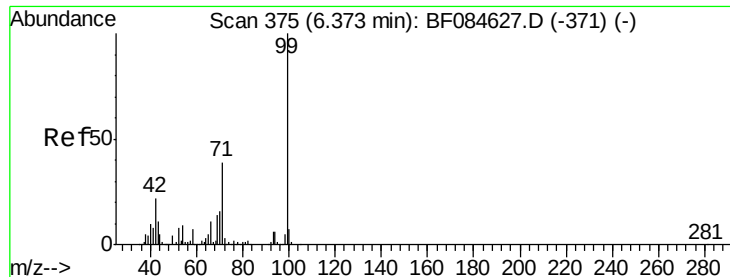


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 120.16 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.00 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

Instrument :

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ClientSampleId :

SUP-B009(25-27)

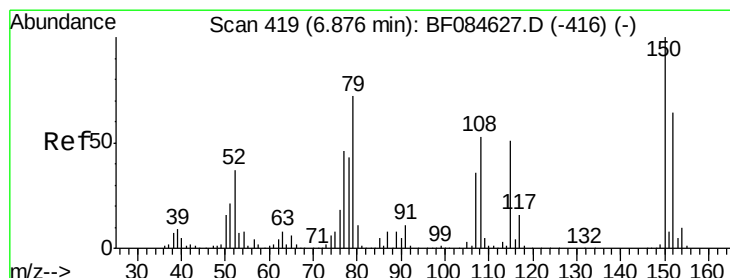
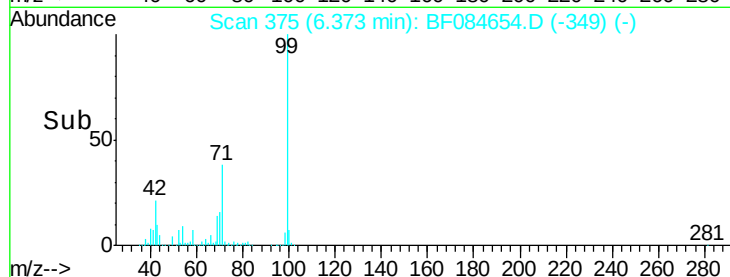
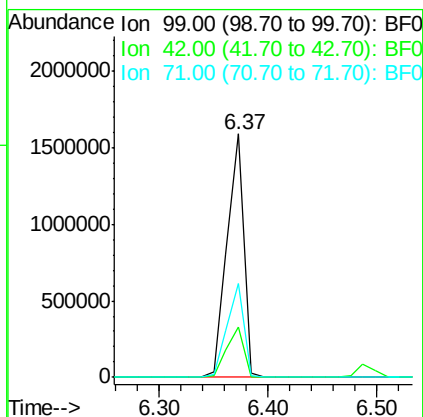
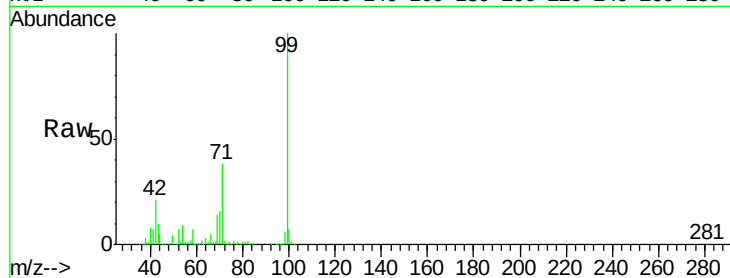
Tgt Ion: 99 Resp: 1701863

Ion Ratio Lower Upper

99 100

42 20.7 12.8 19.2#

71 38.5 30.9 46.3



#15

Benzyl Alcohol

Concen: 2.05 ng

RT: 6.88 min Scan# 419

Delta R.T. -0.00 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

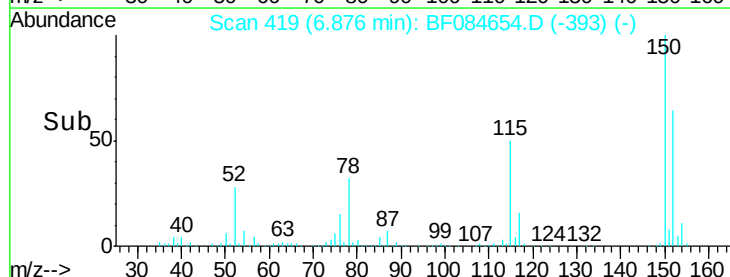
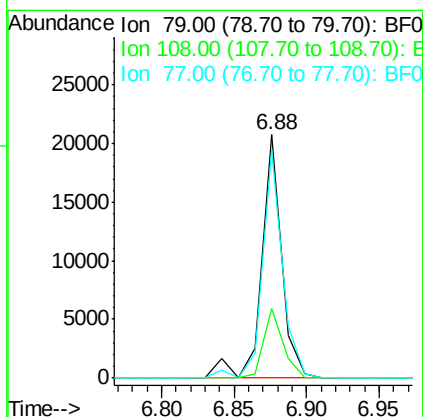
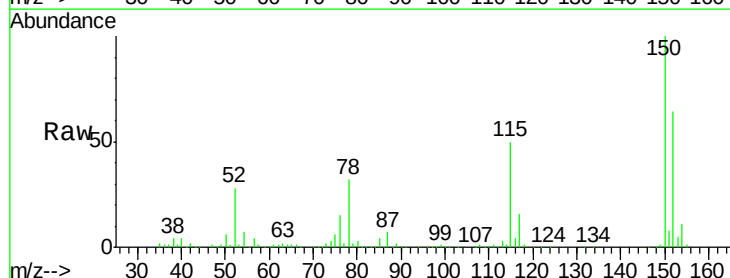
Tgt Ion: 79 Resp: 19800

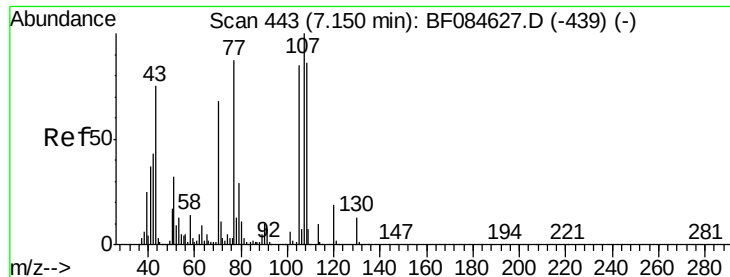
Ion Ratio Lower Upper

79 100

108 28.6 69.0 103.4#

77 93.8 50.0 75.0#





#19

n-Nitroso-di-n-propylamine

Concen: 14.44 ng

RT: 7.29 min Scan# 455

Delta R.T. 0.14 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

Instrument :

BNA\_F

ClientSampleId :

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Tgt Ion: 70 Resp: 124943

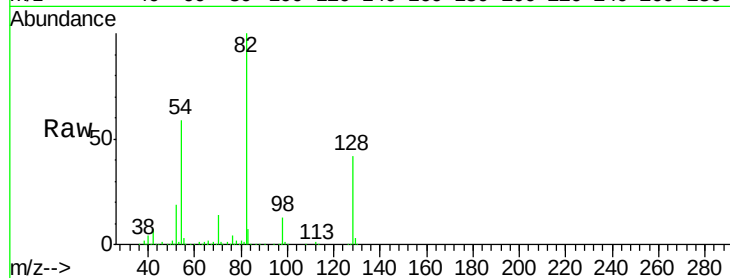
Ion Ratio Lower Upper

70 100

42 49.3 33.3 49.9

101 0.0 9.3 13.9#

130 1.9 23.4 35.0#

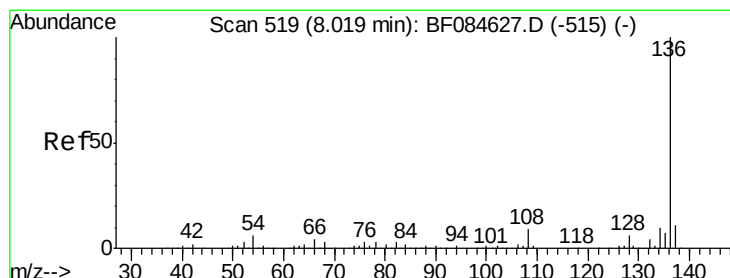
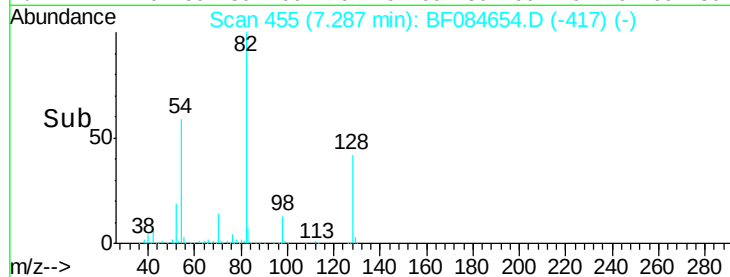
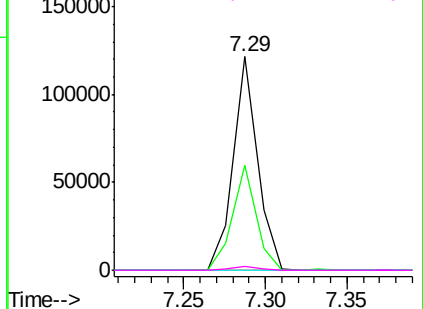


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.01 min Scan# 518

Delta R.T. -0.01 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

Tgt Ion: 136 Resp: 763747

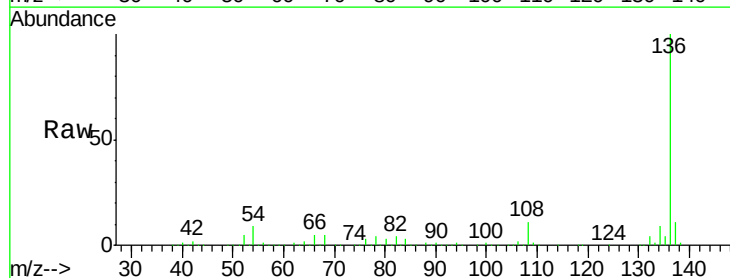
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 9.1 5.8 8.8#

68 4.9 4.2 6.2

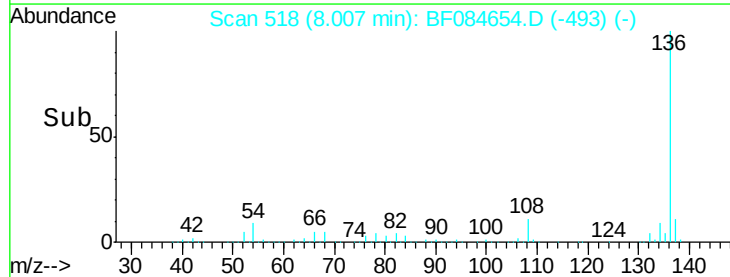
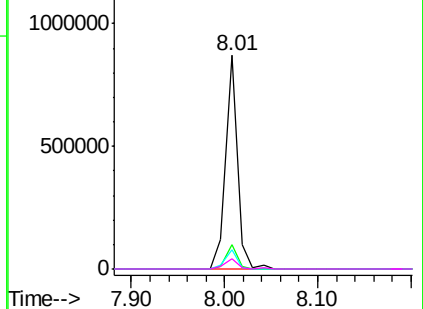


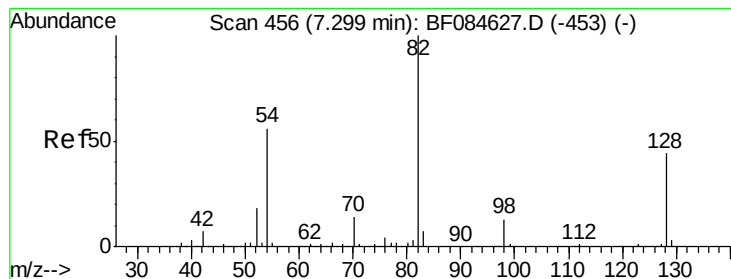
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 69.46 ng

RT: 7.29 min Scan# 455

Delta R.T. -0.01 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

Instrument :

BNA\_F

ClientSampleId :

SUP-B009(25-27)

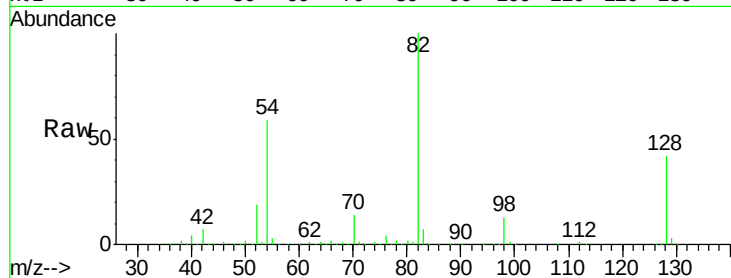
Tgt Ion: 82 Resp: 949274

Ion Ratio Lower Upper

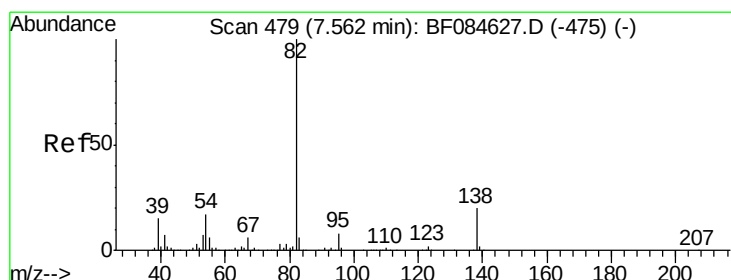
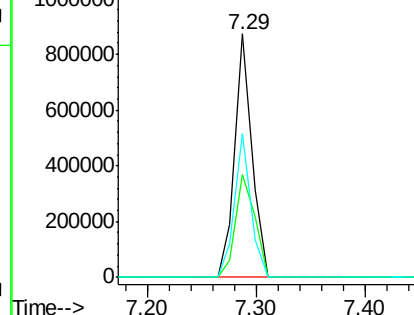
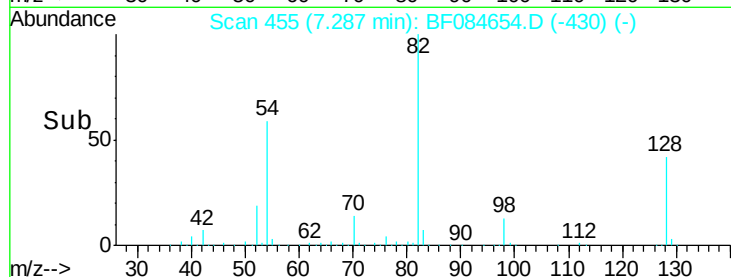
82 100

128 42.1 34.6 51.8

54 58.9 38.4 57.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): BF0  
Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 31.87 ng

RT: 7.29 min Scan# 455

Delta R.T. -0.27 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

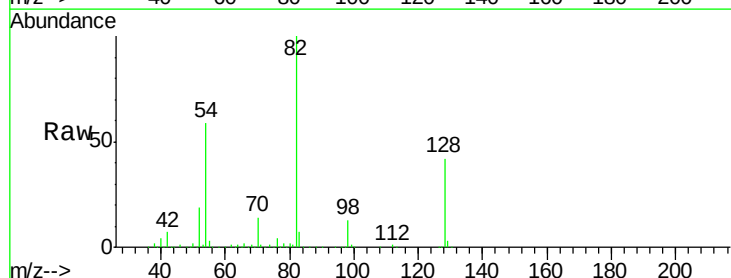
Tgt Ion: 82 Resp: 816046

Ion Ratio Lower Upper

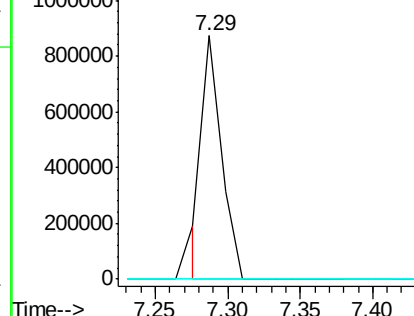
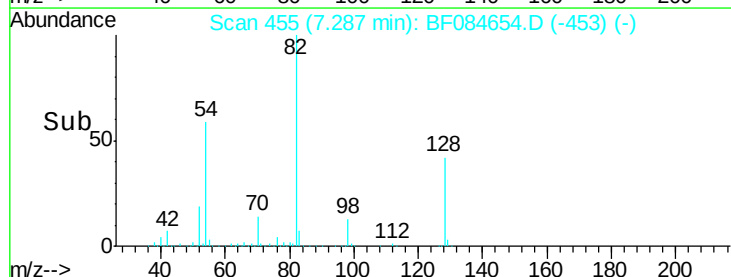
82 100

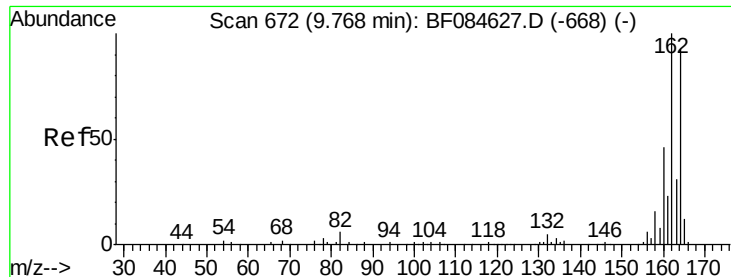
95 0.0 6.6 10.0#

138 0.0 13.6 20.4#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.76 min Scan# 671

Delta R.T. -0.01 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

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ClientSampleId :

SUP-B009(25-27)

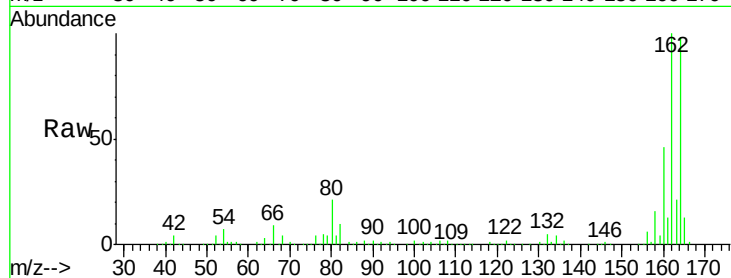
Tgt Ion:164 Resp: 347403

Ion Ratio Lower Upper

164 100

162 102.3 85.1 127.7

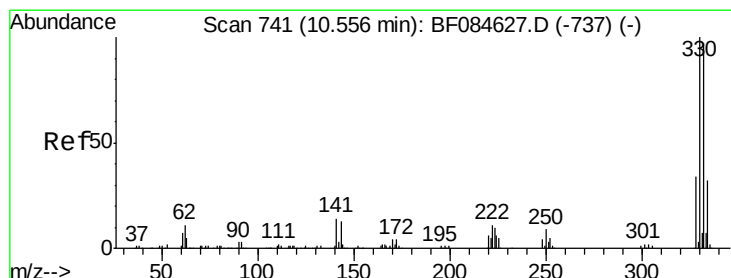
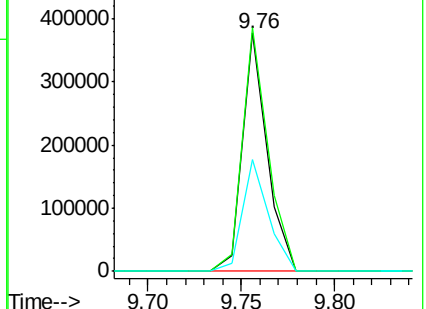
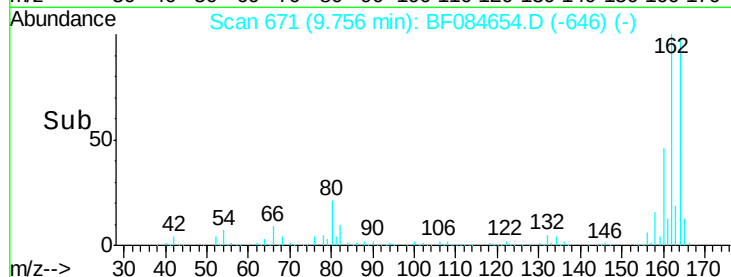
160 47.0 37.5 56.3



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: 108.86 ng

RT: 10.54 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

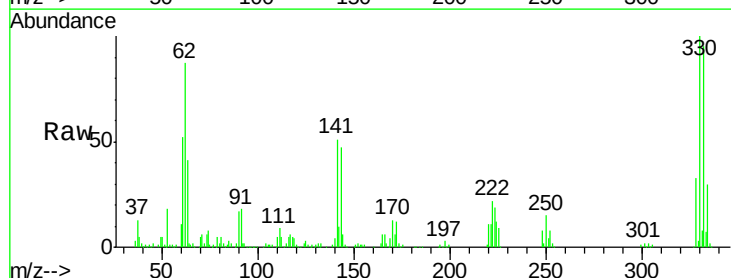
Tgt Ion:330 Resp: 396379

Ion Ratio Lower Upper

330 100

332 95.7 76.6 114.8

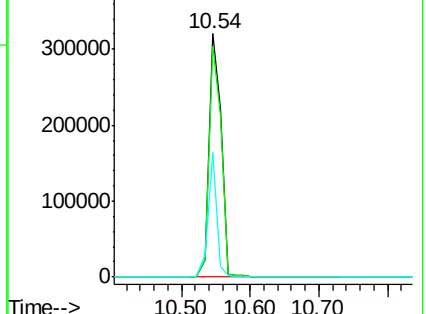
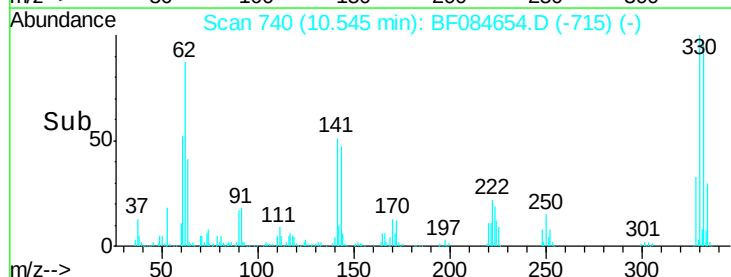
141 36.7 27.8 41.6

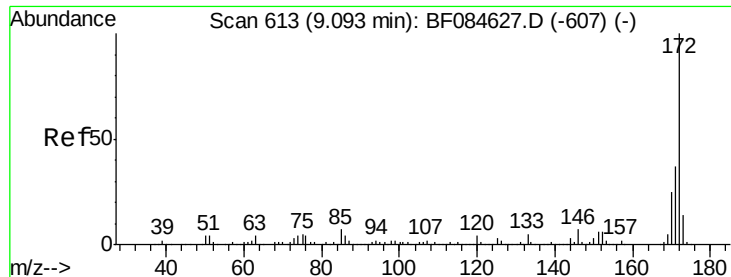


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

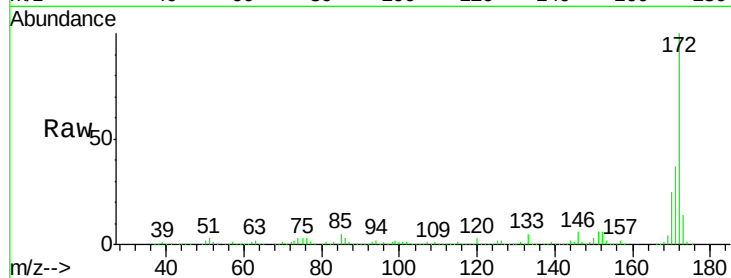




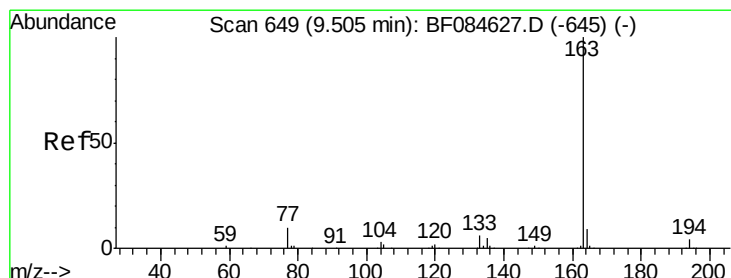
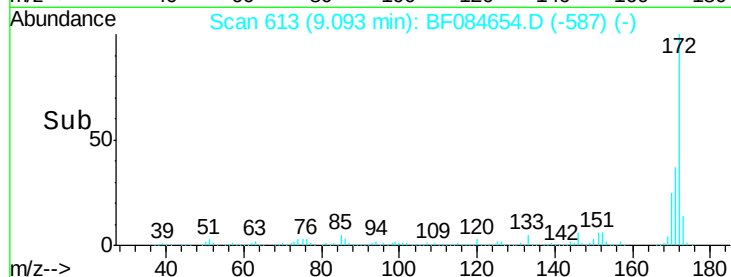
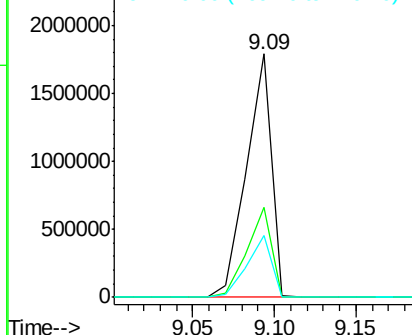
#44  
 2-Fluorobiphenyl  
 Concen: 81.00 ng  
 RT: 9.09 min Scan# 613  
 Delta R.T. -0.00 min  
 Lab File: BF084654.D  
 Acq: 30 Jan 2016 00:05

Instrument :  
 BNA\_F  
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 SUP-B009(25-27)

Tgt Ion:172 Resp: 1893237  
 Ion Ratio Lower Upper  
 172 100  
 171 36.7 28.9 43.3  
 170 25.2 18.6 27.8

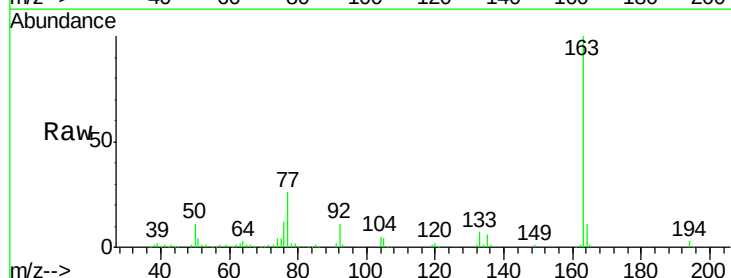


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

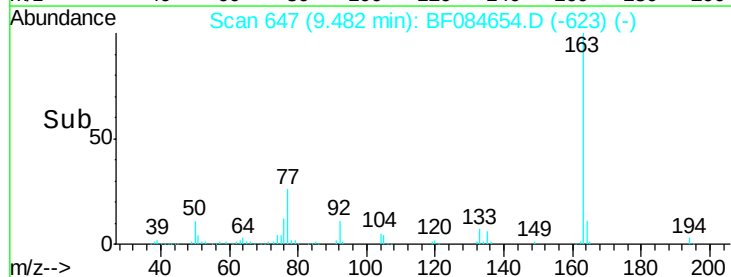
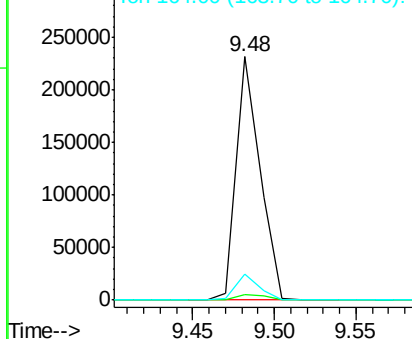


#49  
 Dimethylphthalate  
 Concen: 8.88 ng  
 RT: 9.48 min Scan# 647  
 Delta R.T. -0.02 min  
 Lab File: BF084654.D  
 Acq: 30 Jan 2016 00:05

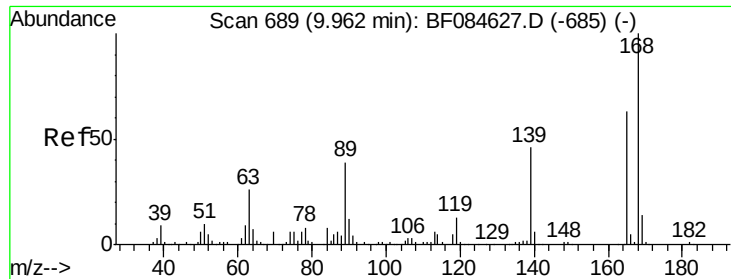
Tgt Ion:163 Resp: 231463  
 Ion Ratio Lower Upper  
 163 100  
 194 2.5 8.0 12.0#  
 164 10.6 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E  
 Ion 194.00 (193.70 to 194.70): E  
 Ion 164.00 (163.70 to 164.70): E



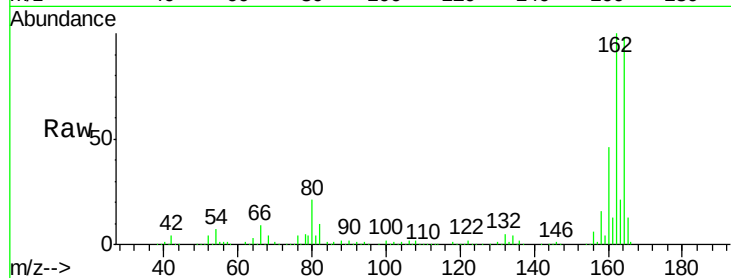




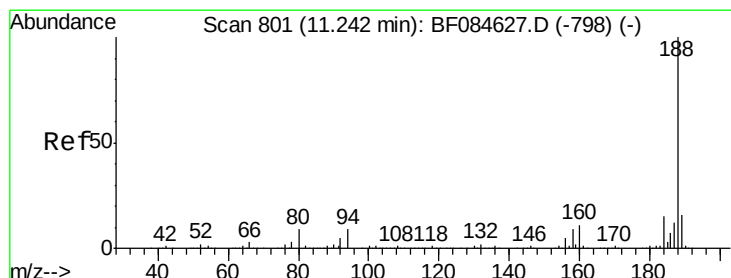
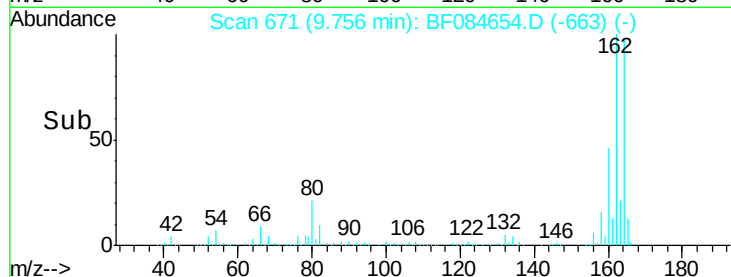
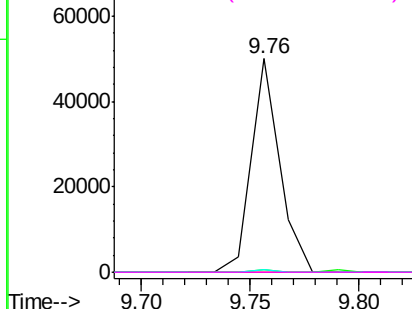
#56  
 2,4-Dinitrotoluene  
 Concen: 6.06 ng  
 RT: 9.76 min Scan# 671  
 Delta R.T. -0.21 min  
 Lab File: BF084654.D  
 Acq: 30 Jan 2016 00:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-B009(25-27)

Tgt Ion:165 Resp: 45179  
 Ion Ratio Lower Upper  
 165 100  
 63 1.3 36.7 55.1#  
 89 1.5 61.9 92.9#  
 182 0.0 2.0 3.0#

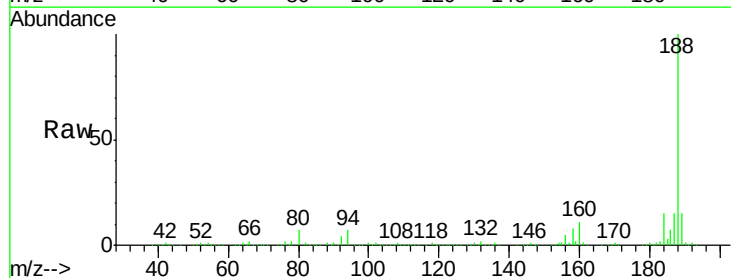


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

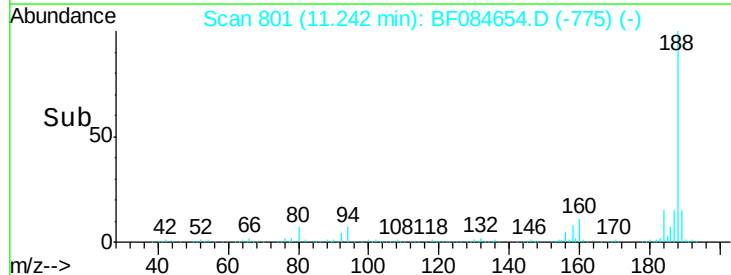
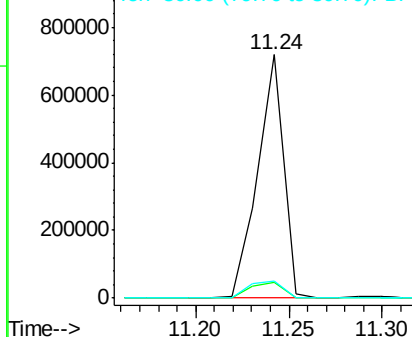


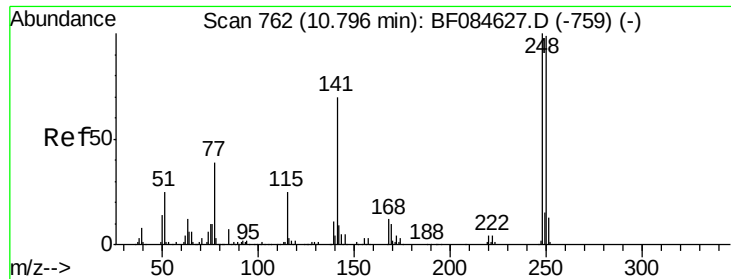
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.24 min Scan# 801  
 Delta R.T. -0.00 min  
 Lab File: BF084654.D  
 Acq: 30 Jan 2016 00:05

Tgt Ion:188 Resp: 688402  
 Ion Ratio Lower Upper  
 188 100  
 94 6.7 9.0 13.4#  
 80 6.9 9.6 14.4#



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

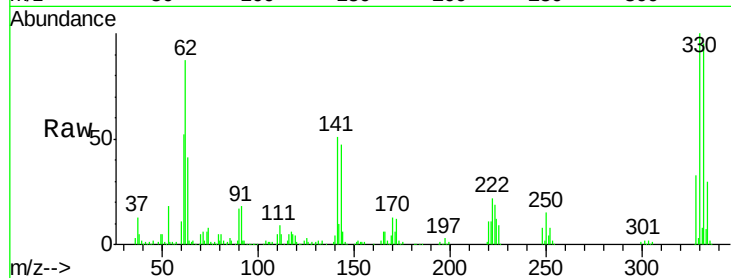




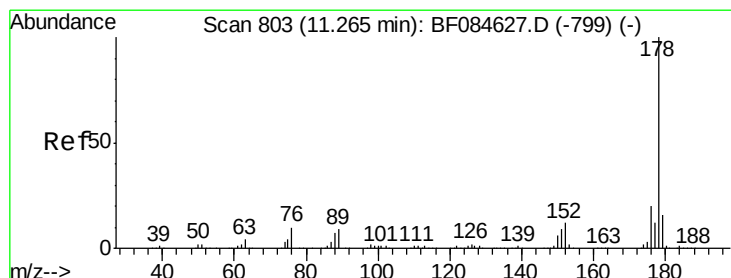
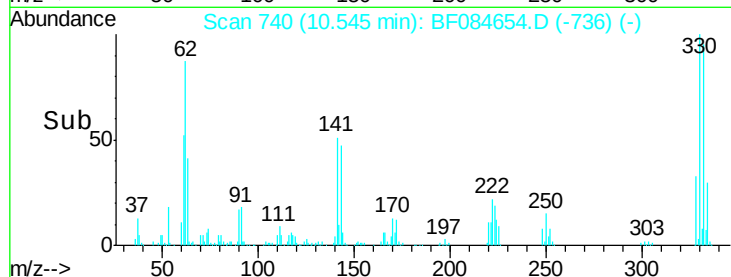
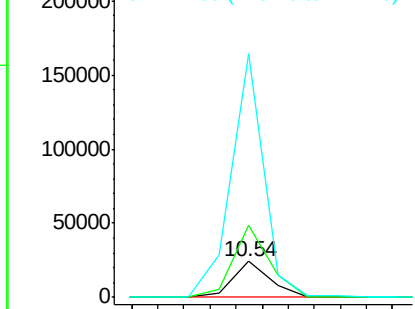
#66  
4-Bromophenyl-phenylether  
Concen: 3.08 ng  
RT: 10.54 min Scan# 740  
Delta R.T. -0.25 min  
Lab File: BF084654.D  
Acq: 30 Jan 2016 00:05

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B009(25-27)

Tgt Ion:248 Resp: 23851  
Ion Ratio Lower Upper  
248 100  
250 199.2 78.4 117.6#  
141 677.8 44.0 66.0#

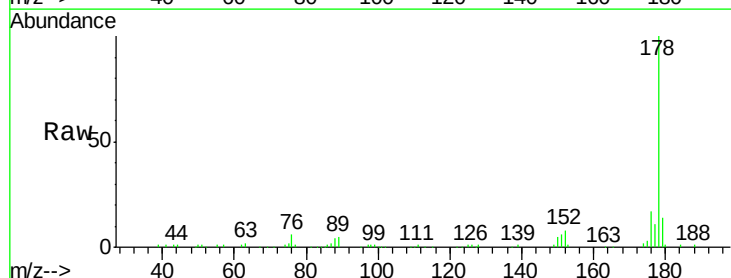


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

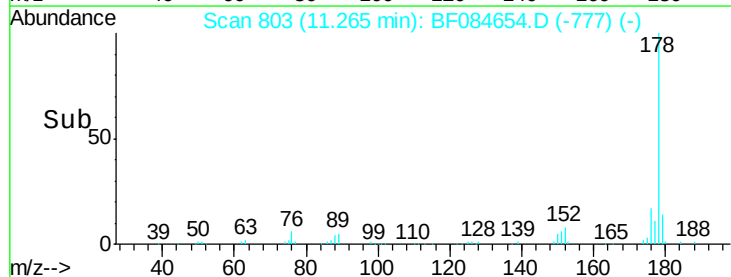
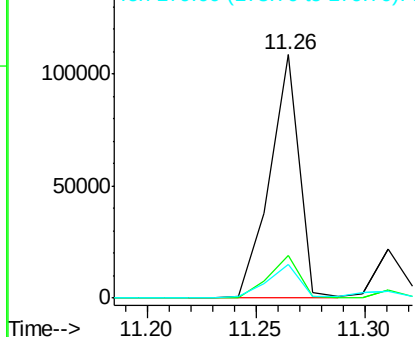


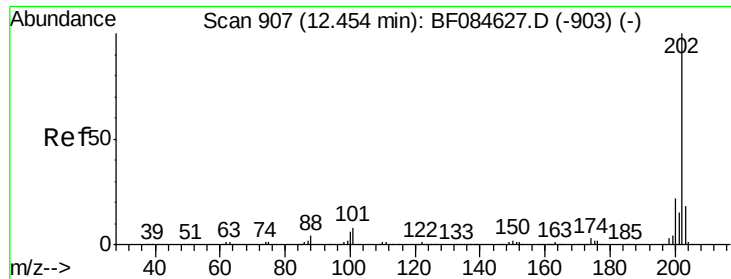
#70  
Phenanthrene  
Concen: 2.71 ng  
RT: 11.26 min Scan# 803  
Delta R.T. -0.00 min  
Lab File: BF084654.D  
Acq: 30 Jan 2016 00:05

Tgt Ion:178 Resp: 103049  
Ion Ratio Lower Upper  
178 100  
176 17.5 15.3 22.9  
179 13.8 12.0 18.0



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

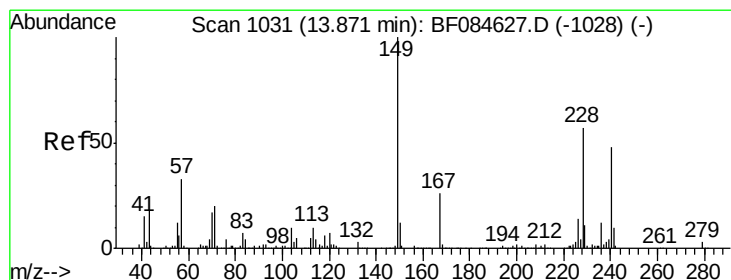
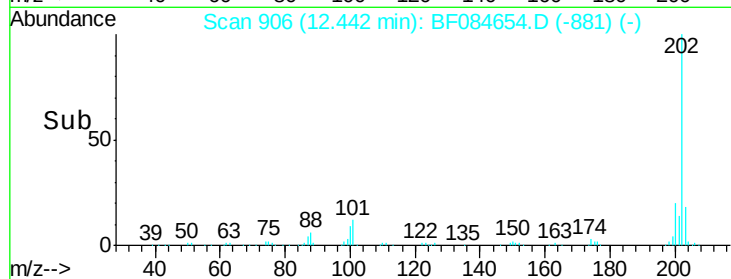
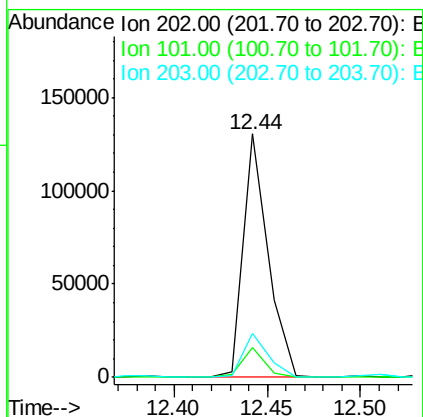
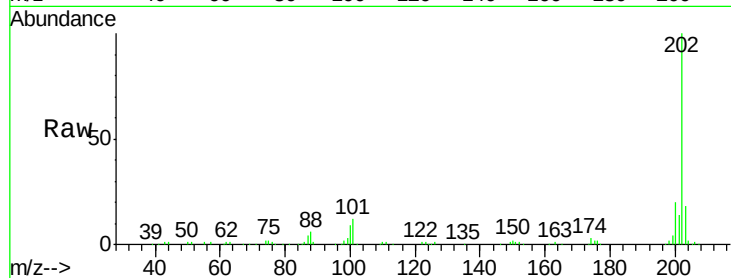




#74  
Fluoranthene  
Concen: 3.22 ng  
RT: 12.44 min Scan# 906  
Delta R.T. -0.01 min  
Lab File: BF084654.D  
Acq: 30 Jan 2016 00:05

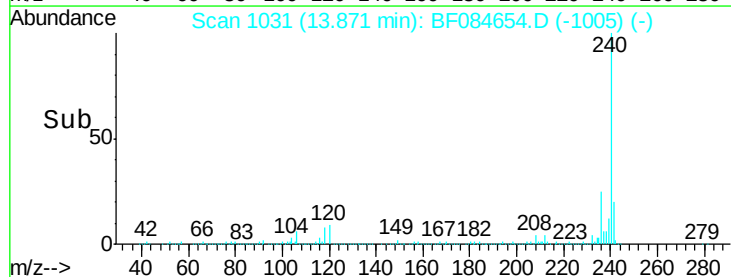
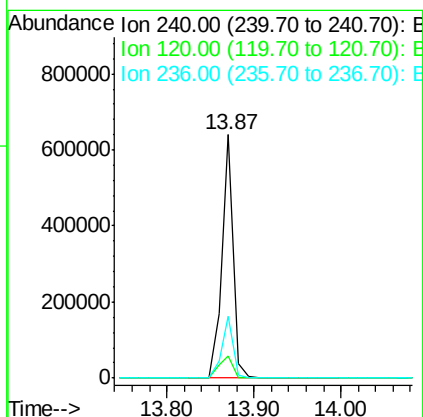
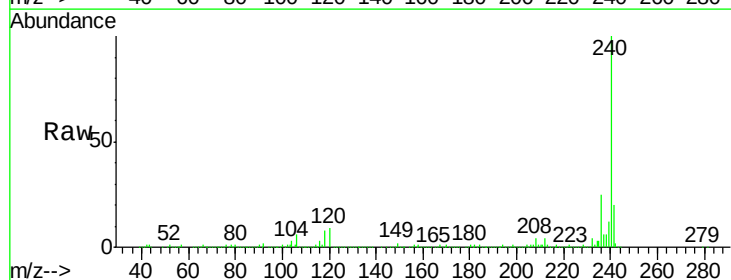
Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B009(25-27)

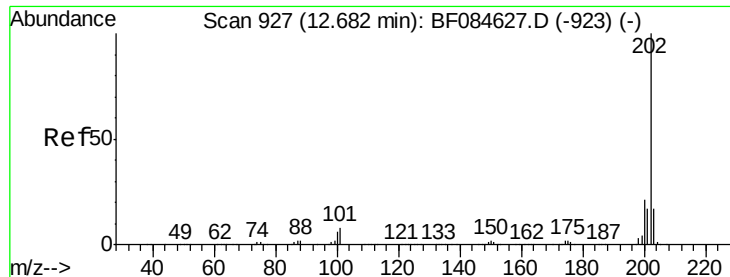
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.3  | 0.0   | 32.8  |
| 203     | 18.1  | 0.0   | 37.9  |



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.87 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: BF084654.D  
Acq: 30 Jan 2016 00:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.1   | 9.5   | 14.3# |
| 236     | 25.4  | 20.6  | 31.0  |





#77

Pyrene

Concen: 2.86 ng

RT: 12.67 min Scan# 926

Delta R.T. -0.01 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

Instrument :

BNA\_F

ClientSampleId :

SUP-B009(25-27)

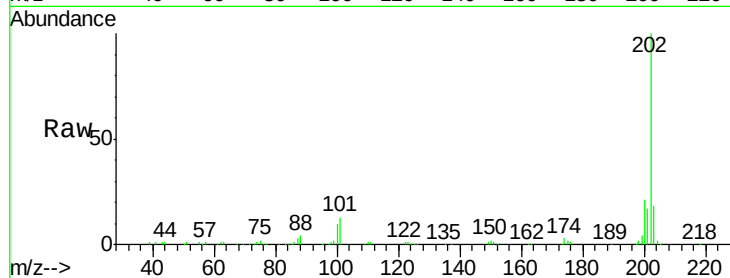
Tgt Ion:202 Resp: 127397

Ion Ratio Lower Upper

202 100

200 20.6 17.2 25.8

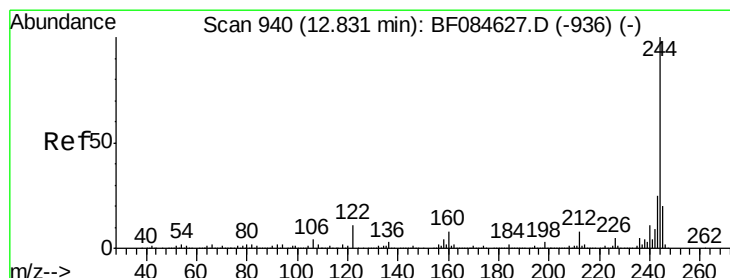
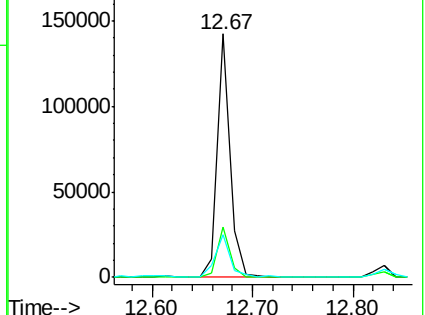
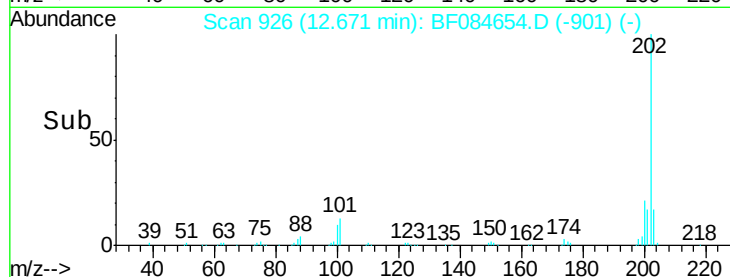
203 17.7 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 68.73 ng

RT: 12.83 min Scan# 940

Delta R.T. -0.00 min

Lab File: BF084654.D

Acq: 30 Jan 2016 00:05

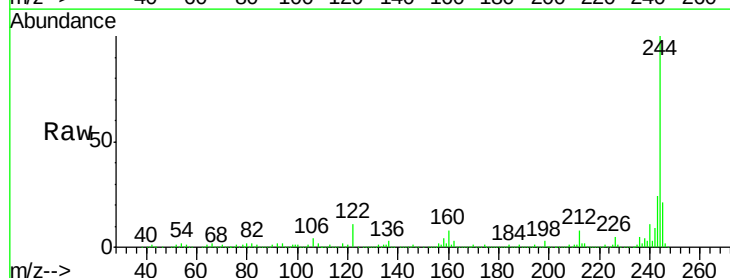
Tgt Ion:244 Resp: 1796540

Ion Ratio Lower Upper

244 100

212 7.6 5.7 8.5

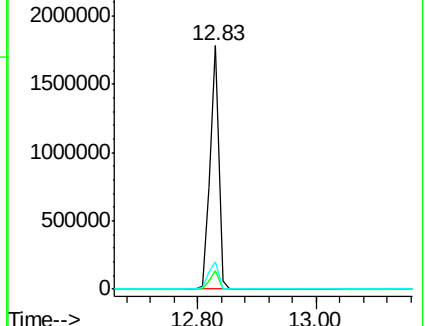
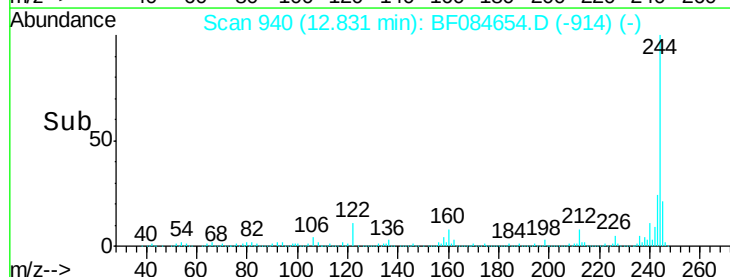
122 11.4 7.4 11.0#

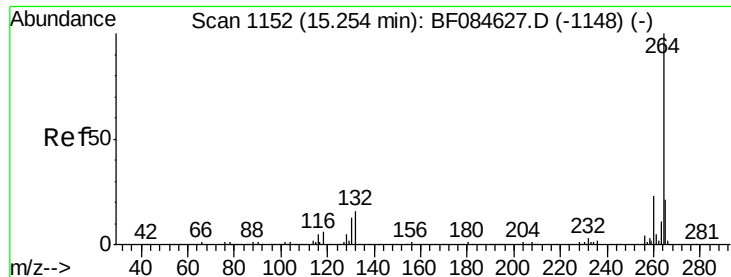


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



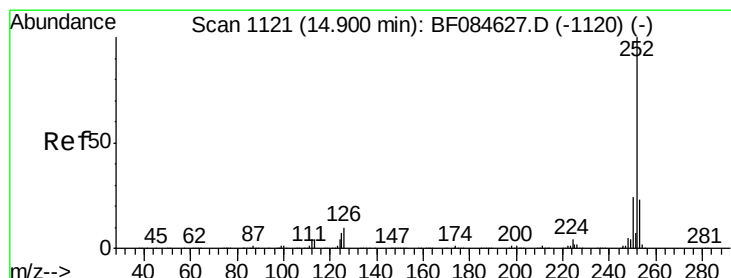
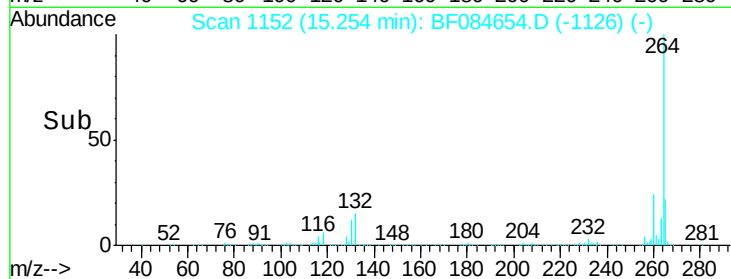
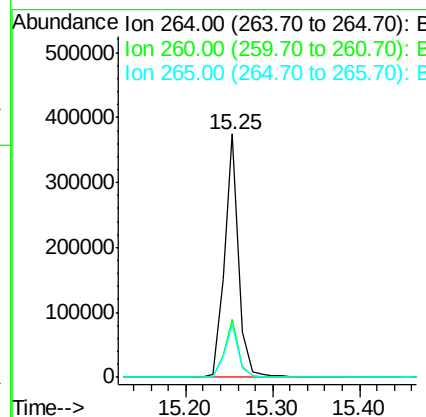
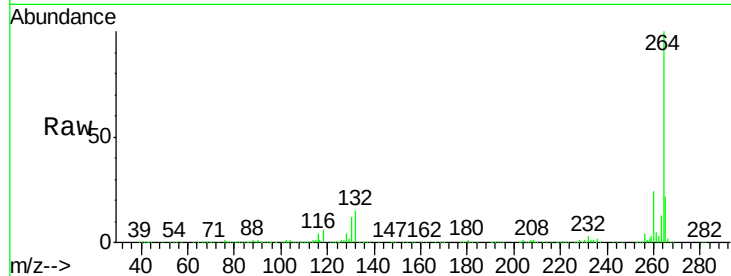


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.25 min Scan# 1152  
Delta R.T. -0.00 min  
Lab File: BF084654.D  
Acq: 30 Jan 2016 00:05

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B009(25-27)

Tgt Ion: 264 Resp: 424918  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.6  | 19.4  | 29.2  |
| 265 | 21.6  | 17.8  | 26.6  |



#88  
Benzo(k)fluoranthene  
Concen: 2.18 ng  
RT: 14.87 min Scan# 1118  
Delta R.T. -0.03 min  
Lab File: BF084654.D  
Acq: 30 Jan 2016 00:05

Tgt Ion: 252 Resp: 49642  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 20.5  | 18.1  | 27.1  |
| 125 | 11.0  | 9.0   | 13.6  |

