

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100815\  
 Data File : BF082125.D  
 Acq On : 8 Oct 2015 13:42  
 Operator : UM/IZ  
 Sample : G3928-02  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OS-SB-22(22-24)

Quant Time: Oct 09 05:06:06 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 09 05:03:35 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 74573    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.15  | 136  | 311144   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.91  | 164  | 149991   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.39 | 188  | 304077   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.04 | 240  | 291432   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.48 | 264  | 226419   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.46  | 112  | 568806   | 138.46 | ng    | 0.01     |
| 7) Phenol-d6                | 6.49  | 99   | 665242   | 128.69 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.43  | 82   | 425311   | 91.12  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330  | 216620   | 142.60 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 763037   | 85.16  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.98 | 244  | 866708   | 101.37 | ng    | 0.00     |

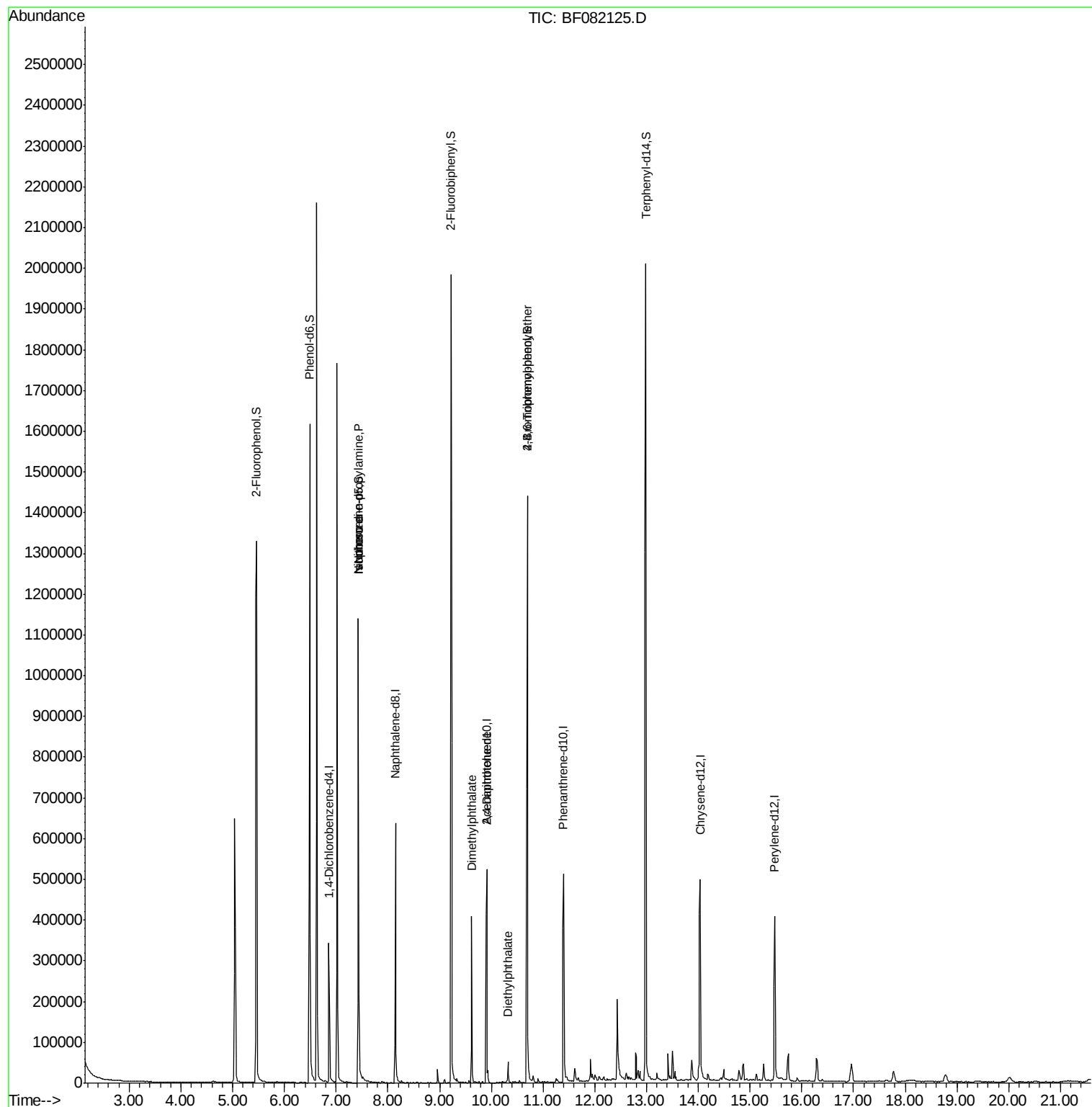
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 53047    | 16.88 | ng    | # 59   |
| 25) Isophorone                 | 7.43  | 82   | 368093   | 39.79 | ng    | # 58   |
| 49) Dimethylphthalate          | 9.62  | 163  | 177680   | 17.16 | ng    | # 97   |
| 56) 2,4-Dinitrotoluene         | 9.91  | 165  | 18978    | 6.62  | ng    | # 31   |
| 57) Fluorene                   | 10.46 | 166  | 2481     | Below | Cal   | # 85   |
| 59) Diethylphthalate           | 10.32 | 149  | 20827    | 2.15  | ng    | 97     |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248  | 14905    | 4.86  | ng    | # 1    |
| 70) Phenanthrene               | 11.42 | 178  | 15414    | Below | Cal   | 97     |
| 73) Di-n-butylphthalate        | 11.95 | 149  | 9598     | Below | Cal   | # 98   |

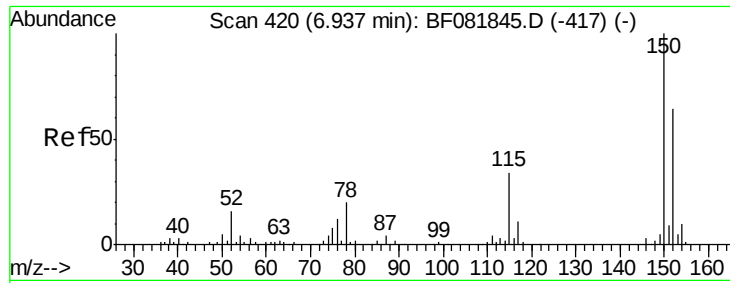
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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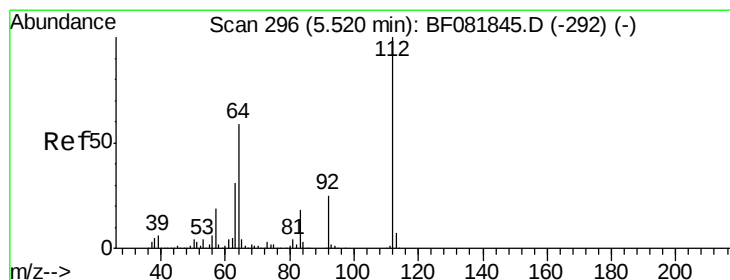
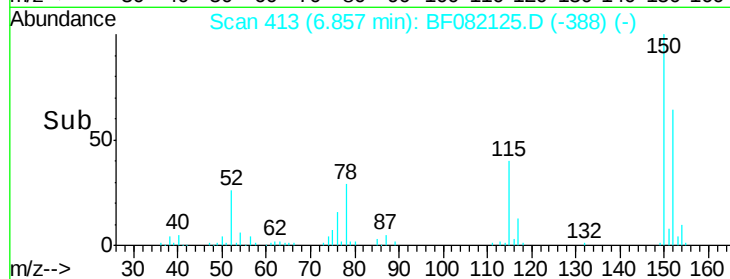
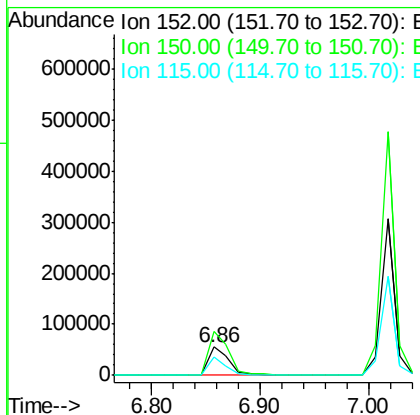
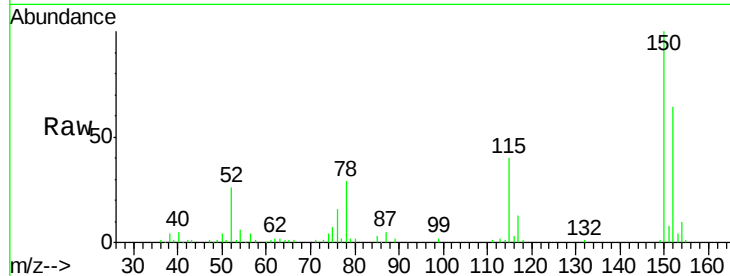




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.86 min Scan# 413  
 Delta R.T. -0.01 min  
 Lab File: BF082125.D  
 Acq: 8 Oct 2015 13:42

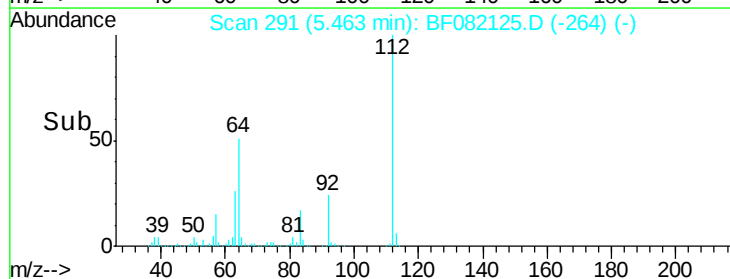
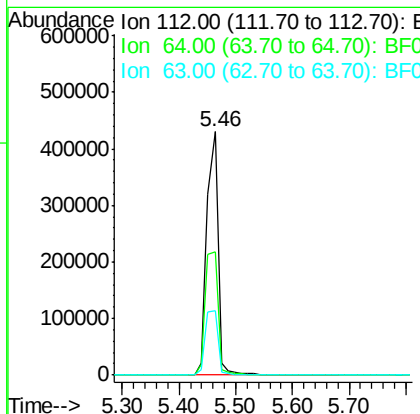
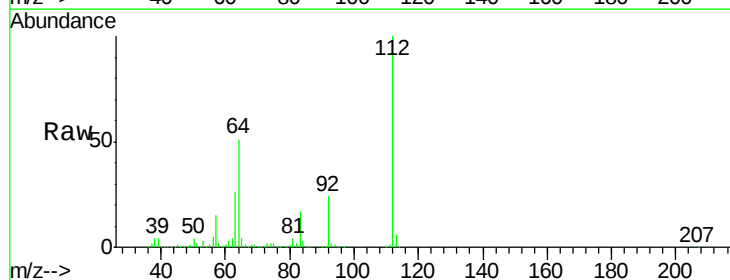
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OS-SB-22(22-24)

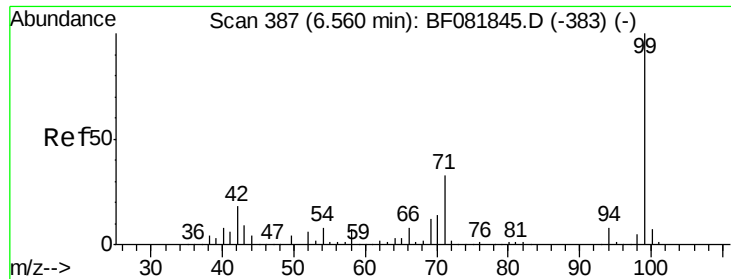
Tot Ion:152 Resp: 74573  
 Ion Ratio Lower Upper  
 152 100  
 150 156.5 124.7 187.1  
 115 63.2 39.0 58.4#



#5  
 2-Fluorophenol  
 Concen: 138.46 ng  
 RT: 5.46 min Scan# 291  
 Delta R.T. 0.01 min  
 Lab File: BF082125.D  
 Acq: 8 Oct 2015 13:42

Tgt Ion:112 Resp: 568806  
 Ion Ratio Lower Upper  
 112 100  
 64 50.7 39.7 59.5  
 63 26.4 17.4 26.0#





#7

Phenol-d6

Concen: 128.69 ng

RT: 6.49 min Scan# 381

Delta R.T. -0.00 min

Lab File: BF082125.D

Acq: 8 Oct 2015 13:42

Instrument :

BNA\_F

ClientSampleId :

OS-SB-22(22-24)

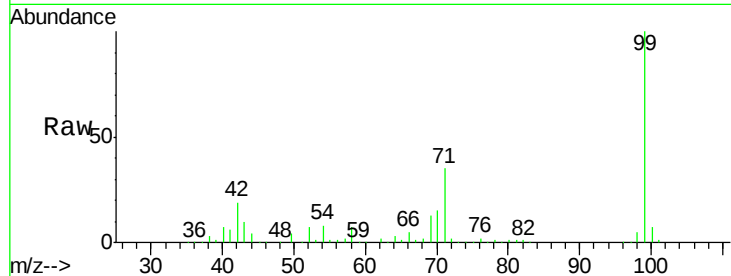
Tot Ion: 99 Resp: 665242

Ion Ratio Lower Upper

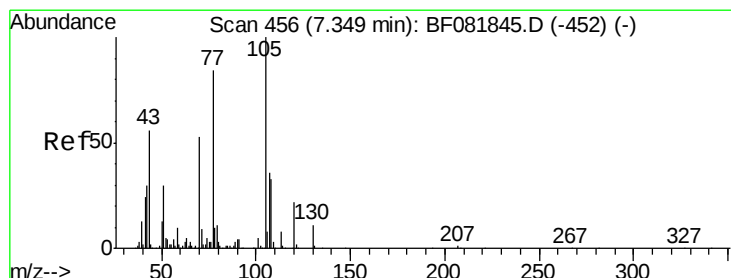
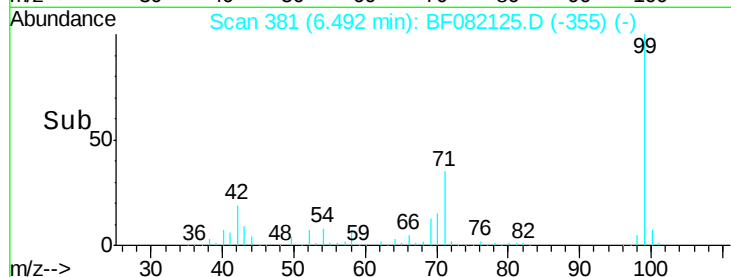
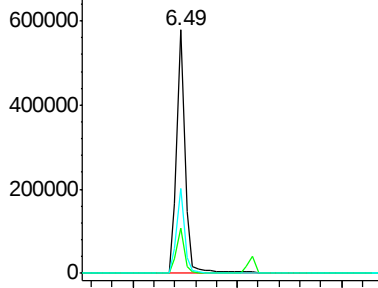
99 100

42 18.6 13.7 20.5

71 34.8 14.2 21.2#



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 16.88 ng

RT: 7.43 min Scan# 463

Delta R.T. 0.15 min

Lab File: BF082125.D

Acq: 8 Oct 2015 13:42

Tgt Ion: 70 Resp: 53047

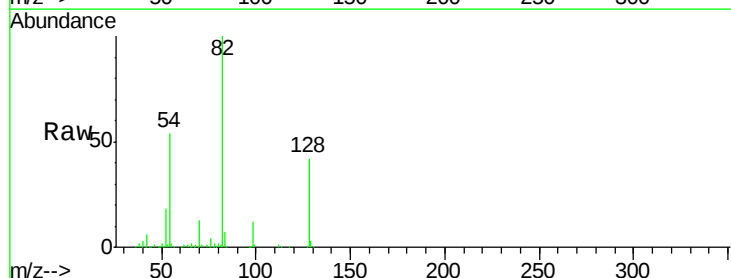
Ion Ratio Lower Upper

70 100

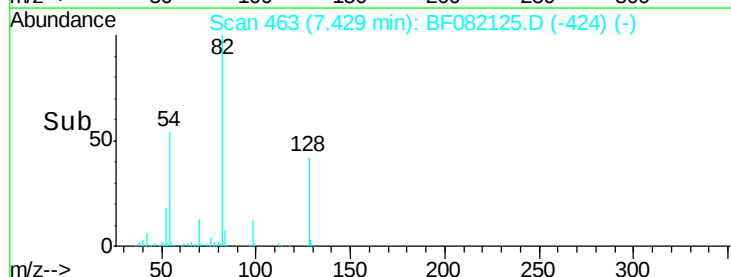
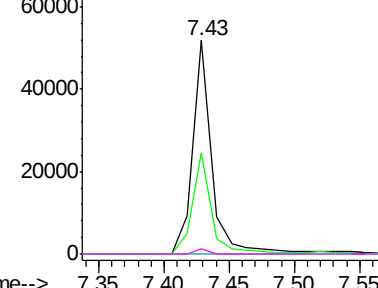
42 47.1 63.8 95.6#

101 0.0 9.2 13.8#

130 2.2 27.3 40.9#



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): BF0  
Ion 130.00 (129.70 to 130.70): BF0

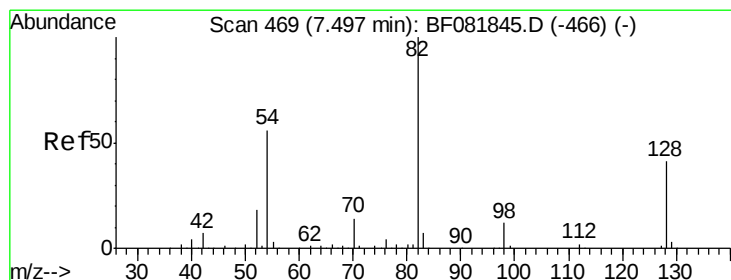
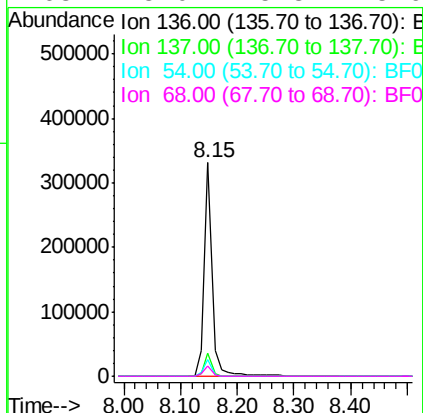
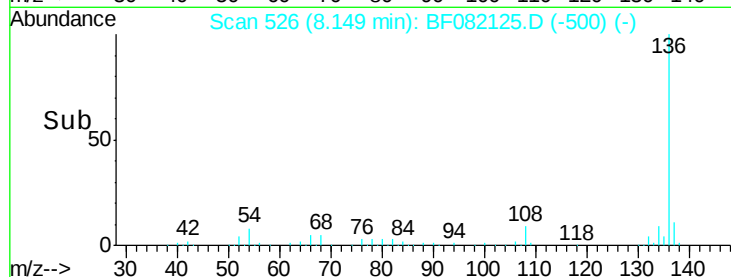
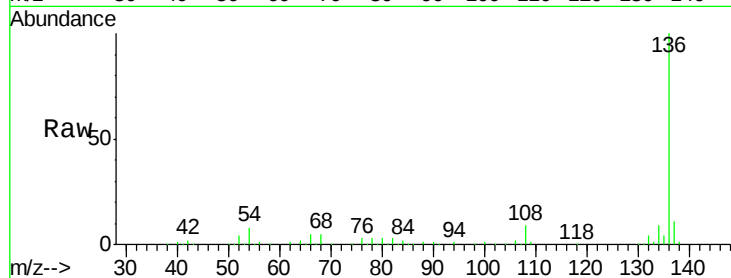




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.15 min Scan# 526  
Delta R.T. -0.00 min  
Lab File: BF082125.D  
Acq: 8 Oct 2015 13:42

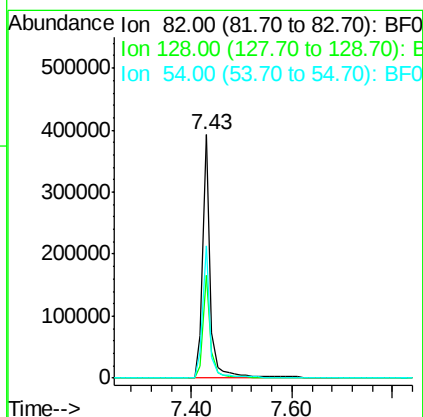
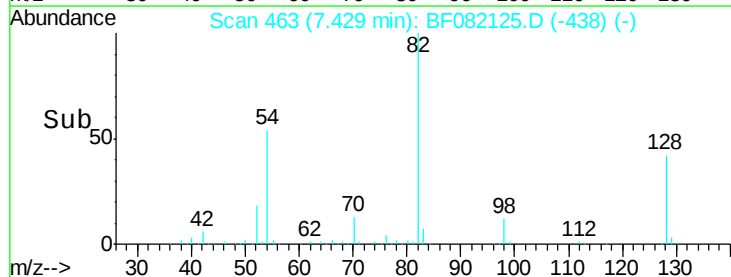
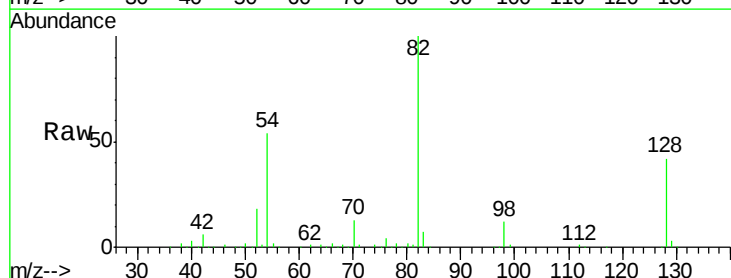
Instrument :  
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OS-SB-22(22-24)

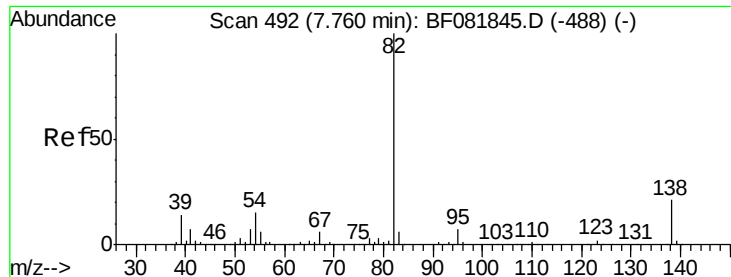
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 311144    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 10.8  | 9.0 13.6  |
| 54          | 7.5   | 8.2 12.2# |
| 68          | 5.0   | 5.8 8.6#  |



#23  
Nitrobenzene-d5  
Concen: 91.12 ng  
RT: 7.43 min Scan# 463  
Delta R.T. -0.01 min  
Lab File: BF082125.D  
Acq: 8 Oct 2015 13:42

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 425311     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 42.4  | 51.0 76.6# |
| 54          | 54.4  | 47.5 71.3  |





#25

Isophorone

Concen: 39.79 ng

RT: 7.43 min Scan# 463

Delta R.T. -0.26 min

Lab File: BF082125.D

Acq: 8 Oct 2015 13:42

Instrument :

BNA\_F

ClientSampleId :

OS-SB-22(22-24)

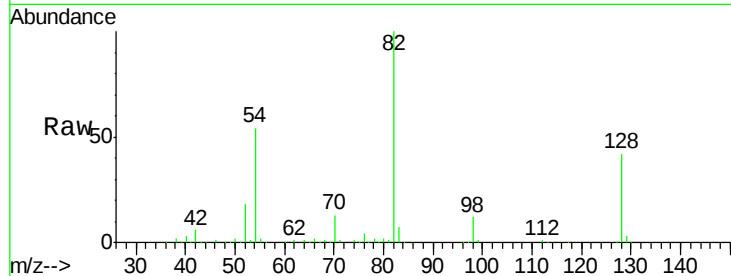
Tot Ion: 82 Resp: 368093

Ion Ratio Lower Upper

82 100

95 0.0 4.0 6.0#

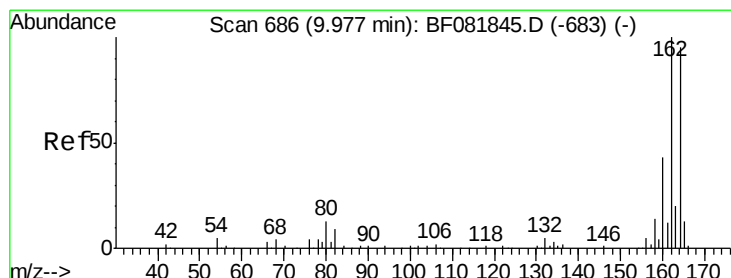
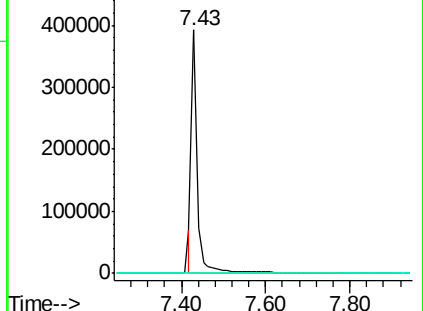
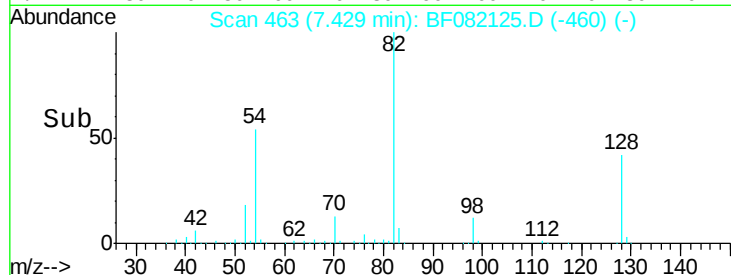
138 0.0 18.3 27.5#



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: 9.91 min Scan# 680

Delta R.T. -0.00 min

Lab File: BF082125.D

Acq: 8 Oct 2015 13:42

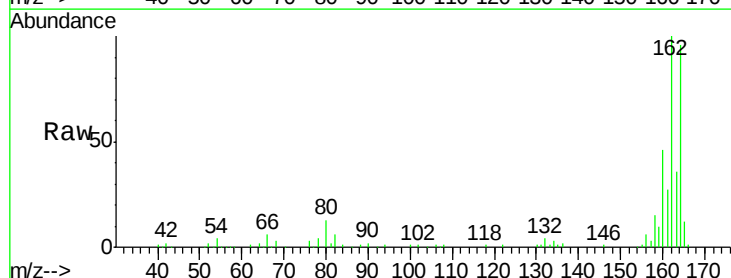
Tgt Ion:164 Resp: 149991

Ion Ratio Lower Upper

164 100

162 103.8 75.2 112.8

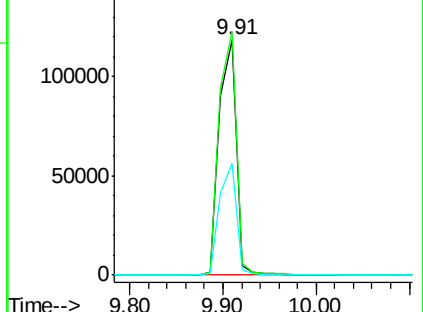
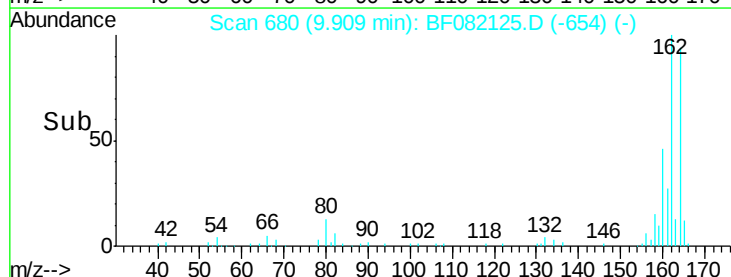
160 47.6 31.5 47.3#

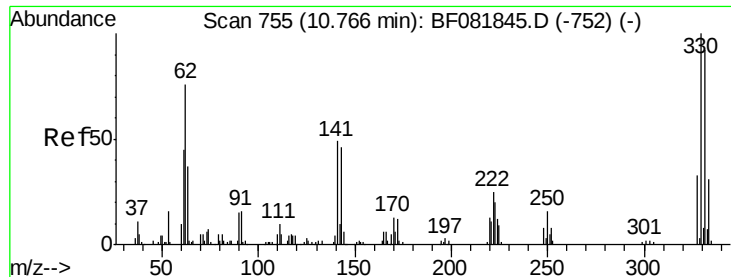


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

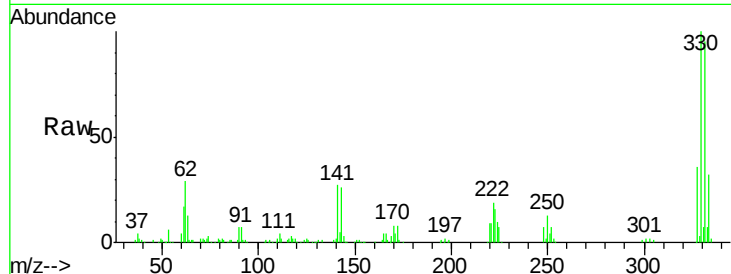




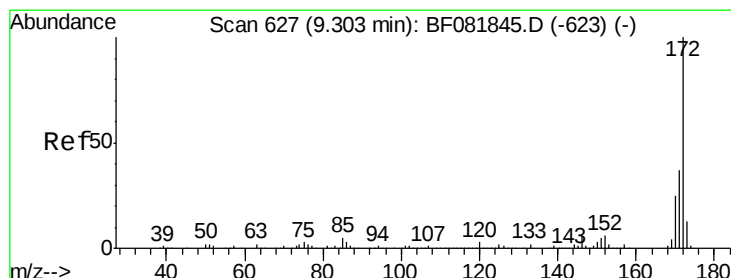
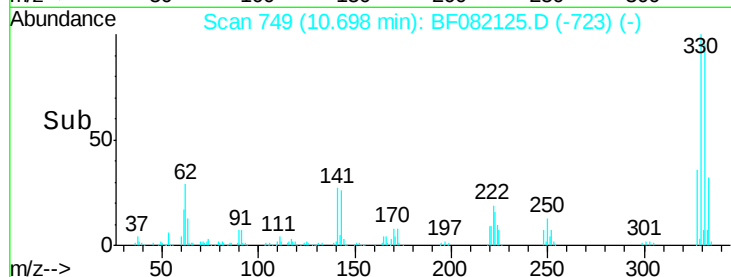
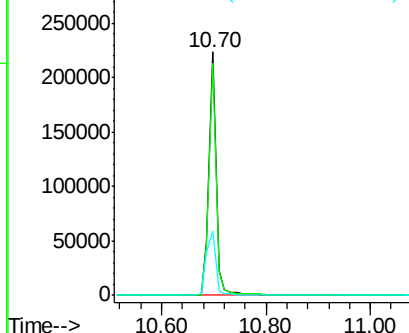
#41  
 2,4,6-Tribromophenol  
 Concen: 142.60 ng  
 RT: 10.70 min Scan# 749  
 Delta R.T. -0.00 min  
 Lab File: BF082125.D  
 Acq: 8 Oct 2015 13:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OS-SB-22(22-24)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.7  | 76.6  | 114.8 |
| 141     | 35.1  | 29.7  | 44.5  |

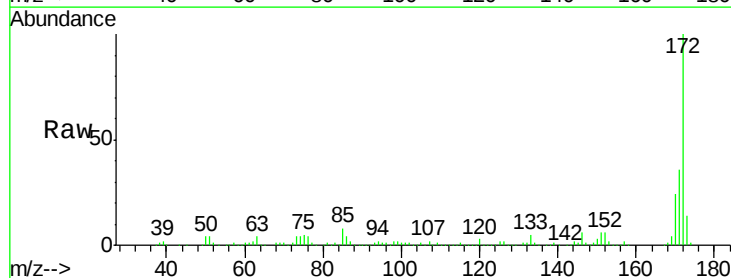


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

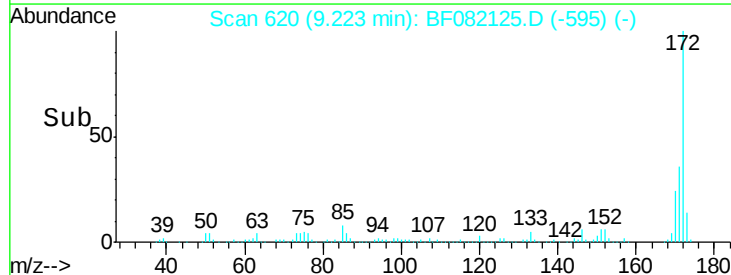
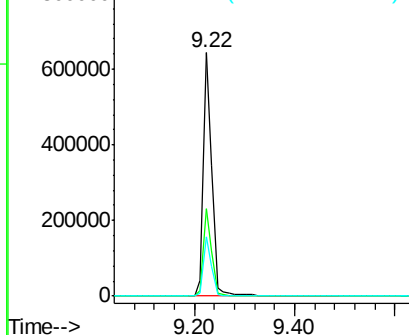


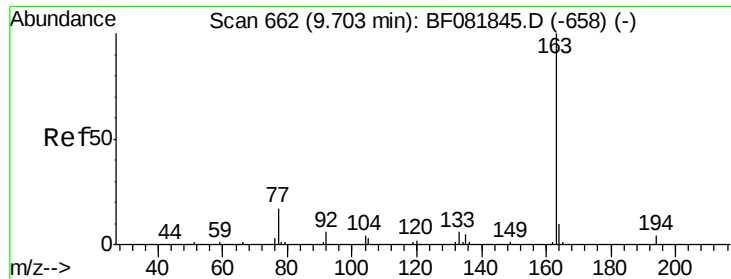
#44  
 2-Fluorobiphenyl  
 Concen: 85.16 ng  
 RT: 9.22 min Scan# 620  
 Delta R.T. -0.01 min  
 Lab File: BF082125.D  
 Acq: 8 Oct 2015 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 26.1  | 39.1  |
| 170     | 24.3  | 17.4  | 26.2  |



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

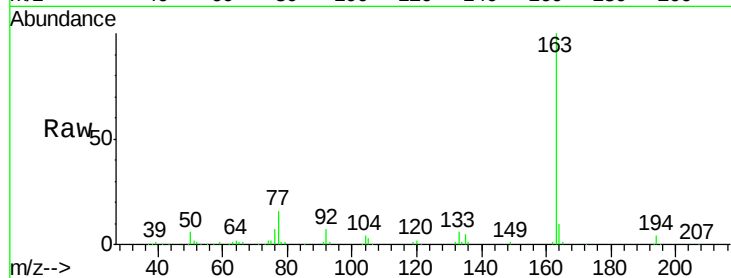




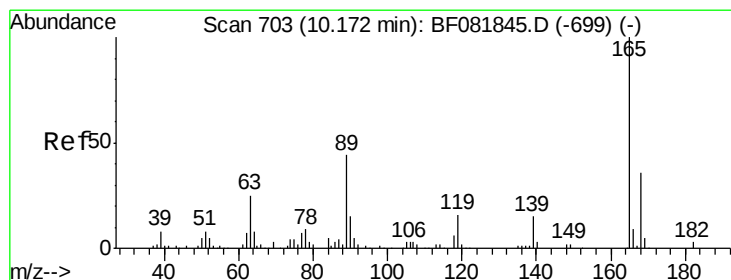
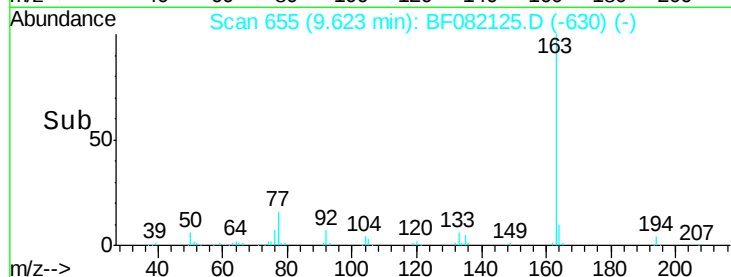
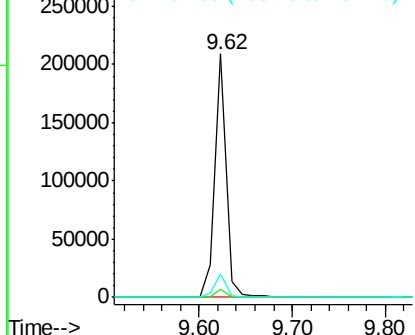
#49  
Dimethylphthalate  
Concen: 17.16 ng  
RT: 9.62 min Scan# 655  
Delta R.T. -0.01 min  
Lab File: BF082125.D  
Acq: 8 Oct 2015 13:42

Instrument :  
BNA\_F  
ClientSampleId :  
OS-SB-22(22-24)

Tot Ion:163 Resp: 177680  
Ion Ratio Lower Upper  
163 100  
194 3.6 4.4 6.6#  
164 9.8 8.3 12.5

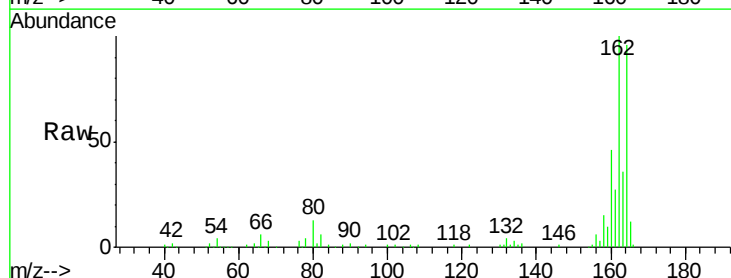


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

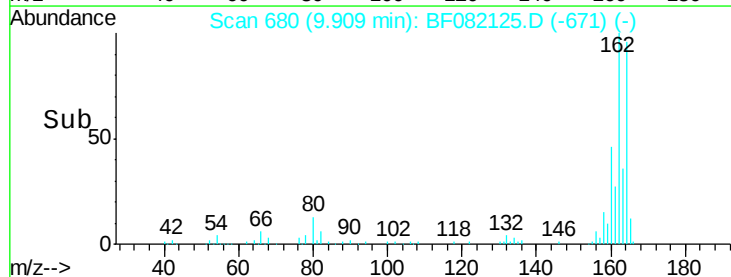
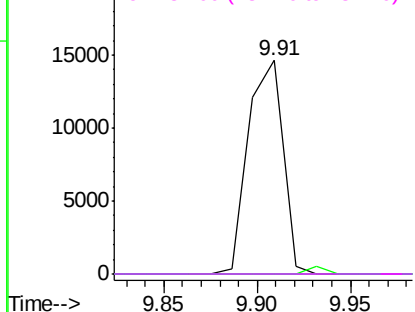


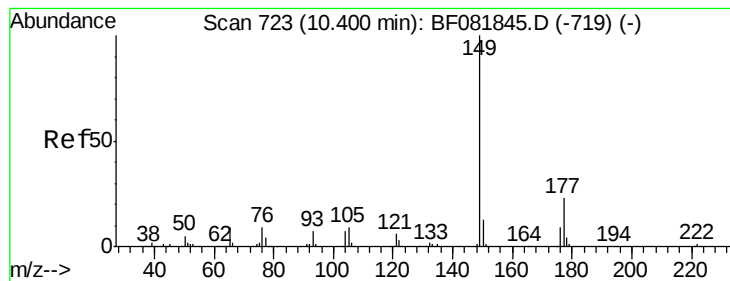
#56  
2,4-Dinitrotoluene  
Concen: 6.62 ng  
RT: 9.91 min Scan# 680  
Delta R.T. -0.19 min  
Lab File: BF082125.D  
Acq: 8 Oct 2015 13:42

Tgt Ion:165 Resp: 18978  
Ion Ratio Lower Upper  
165 100  
63 0.0 29.8 44.6#  
89 0.0 44.5 66.7#  
182 0.0 3.0 4.4#



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





#59

Diethylphthalate

Concen: 2.15 ng

RT: 10.32 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF082125.D

Acq: 8 Oct 2015 13:42

Instrument :

BNA\_F

ClientSampleId :

OS-SB-22(22-24)

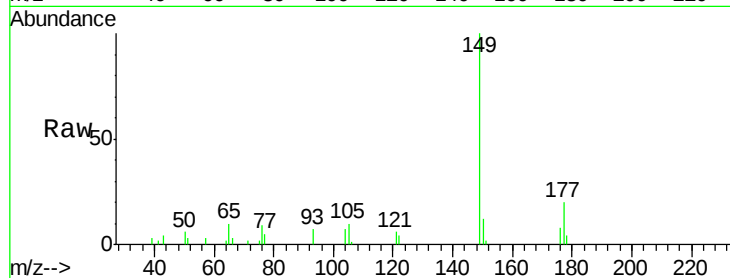
Tot Ion:149 Resp: 20827

Ion Ratio Lower Upper

149 100

177 20.1 17.5 26.3

150 11.5 9.4 14.2

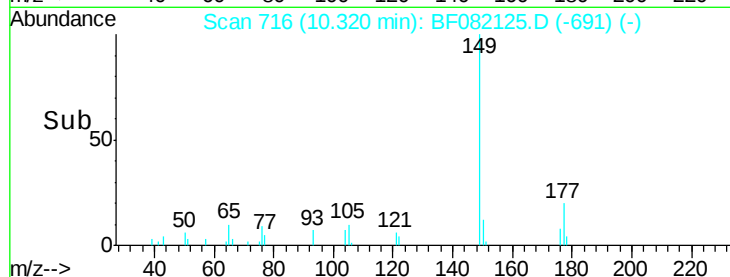


Abundance Ion 149.00 (148.70 to 149.70): E

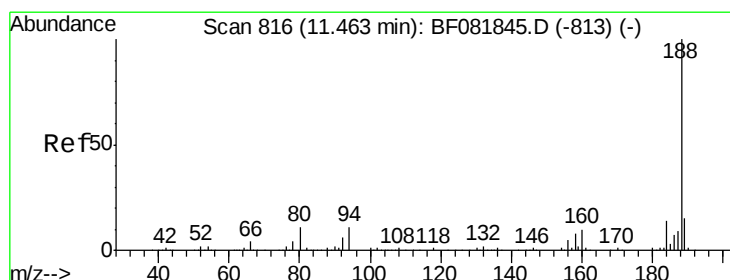
Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

Time--> 10.25 10.30 10.35



Time--> 10.25 10.30 10.35



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.39 min Scan# 810

Delta R.T. -0.00 min

Lab File: BF082125.D

Acq: 8 Oct 2015 13:42

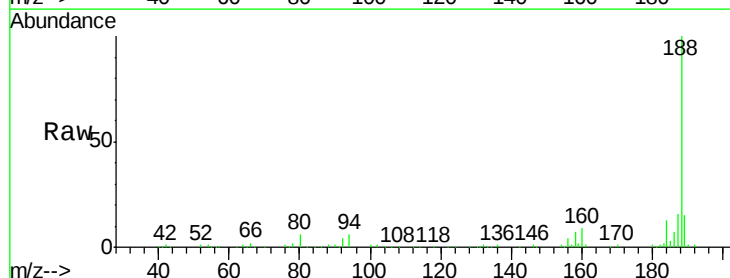
Tgt Ion:188 Resp: 304077

Ion Ratio Lower Upper

188 100

94 5.9 11.1 16.7#

80 6.0 11.0 16.4#

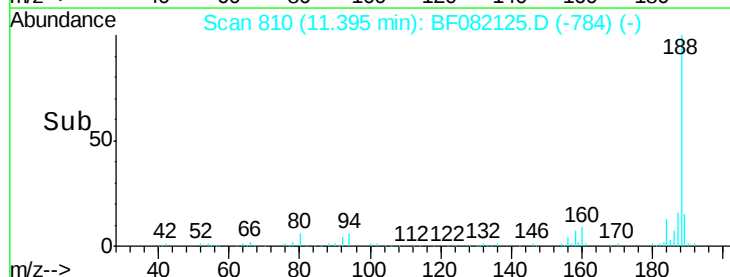


Abundance Ion 188.00 (187.70 to 188.70): E

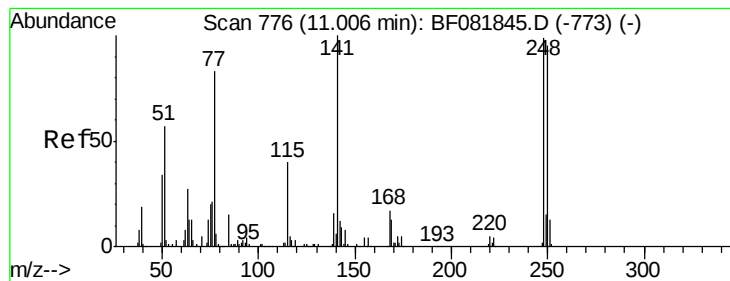
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

Time--> 11.40 11.60



Time--> 11.40 11.60



#66

4-Bromophenyl-phenylether

Concen: 4.86 ng

RT: 10.70 min Scan# 749

Delta R.T. -0.24 min

Lab File: BF082125.D

Acq: 8 Oct 2015 13:42

Instrument :

BNA\_F

ClientSampleId :

OS-SB-22(22-24)

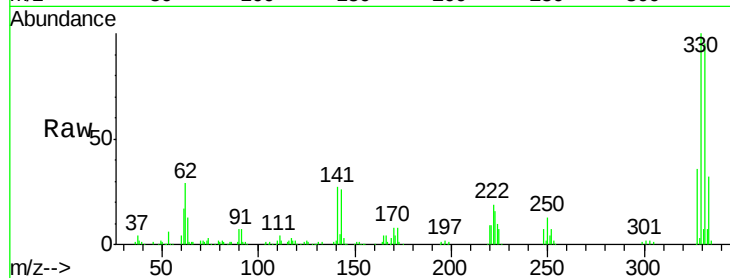
Tot Ion:248 Resp: 14905

Ion Ratio Lower Upper

248 100

250 197.9 78.5 117.7#

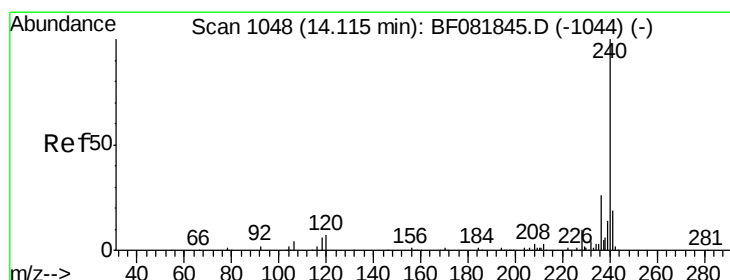
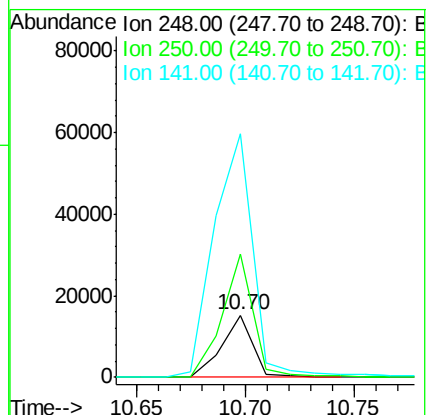
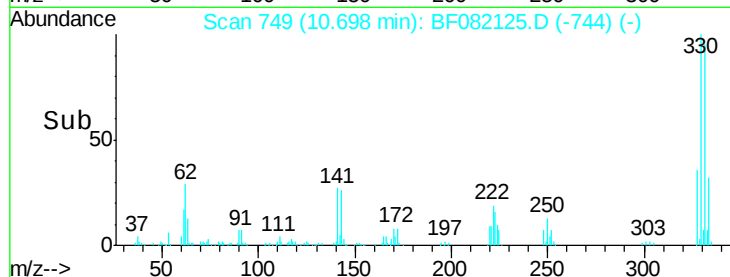
141 392.7 59.0 88.6#



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.04 min Scan# 1041

Delta R.T. -0.01 min

Lab File: BF082125.D

Acq: 8 Oct 2015 13:42

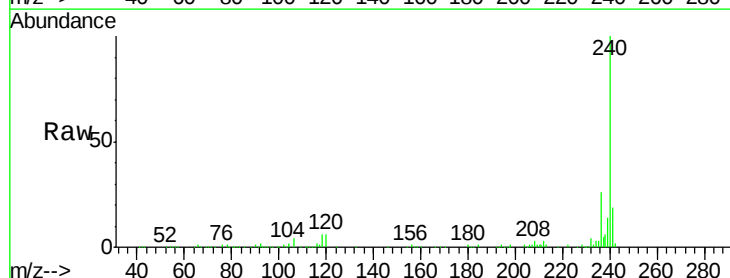
Tgt Ion:240 Resp: 291432

Ion Ratio Lower Upper

240 100

120 6.4 16.2 24.2#

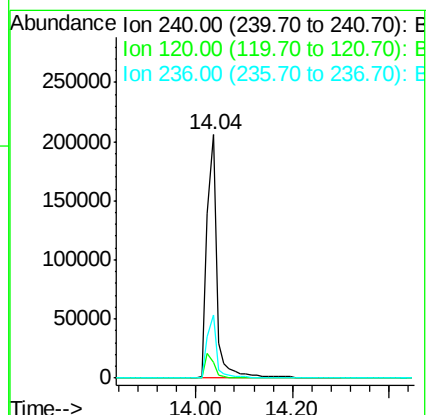
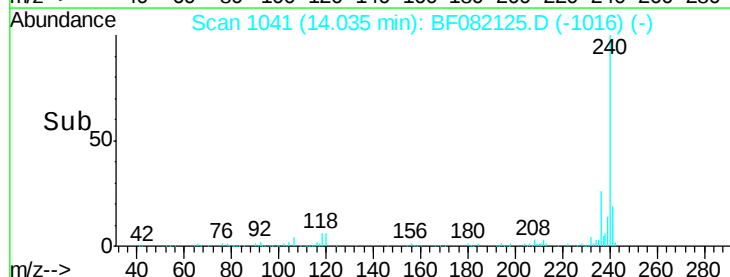
236 25.7 18.4 27.6

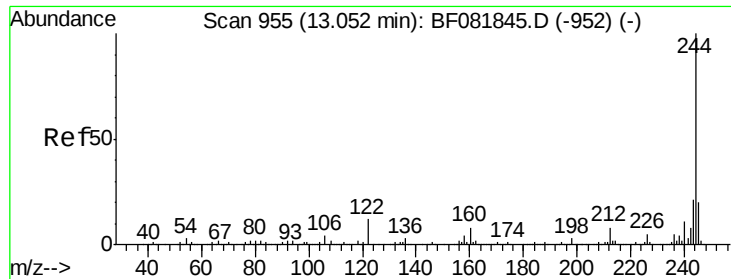


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

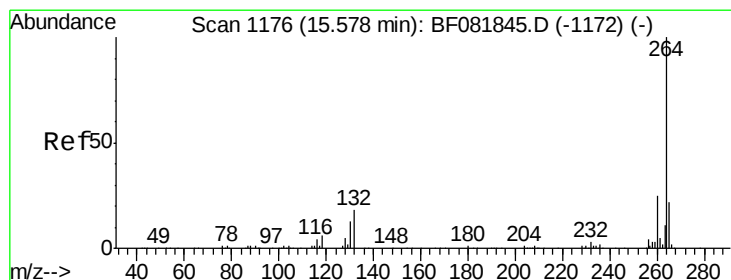
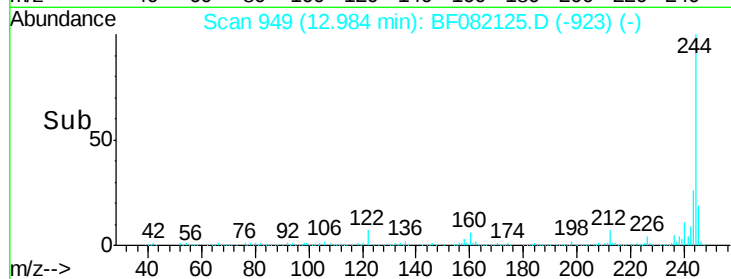
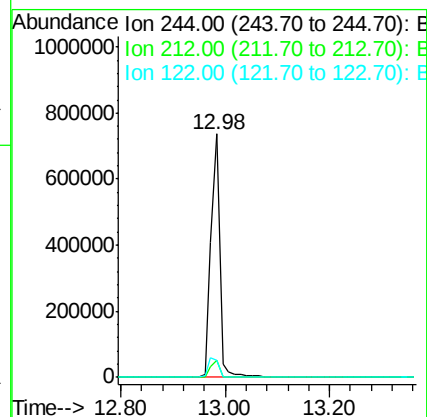
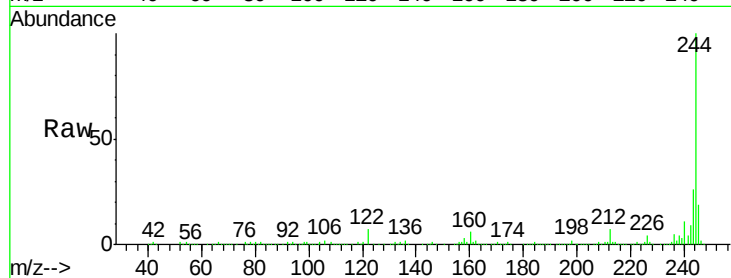




#78  
 Terphenyl-d14  
 Concen: 101.37 ng  
 RT: 12.98 min Scan# 949  
 Delta R.T. -0.00 min  
 Lab File: BF082125.D  
 Acq: 8 Oct 2015 13:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OS-SB-22(22-24)

Tot Ion:244 Resp: 866708  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 4.3 6.5#  
 122 7.2 17.4 26.2#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.48 min Scan# 1167  
 Delta R.T. -0.01 min  
 Lab File: BF082125.D  
 Acq: 8 Oct 2015 13:42

Tgt Ion:264 Resp: 226419  
 Ion Ratio Lower Upper  
 264 100  
 260 23.5 16.7 25.1  
 265 21.8 17.2 25.8

