

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\  
 Data File : BF082298.D  
 Acq On : 15 Oct 2015 9:38  
 Operator : UM/IZ  
 Sample : G4016-05  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-5

Quant Time: Oct 16 01:06:16 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 16 01:04:42 2015  
 Response via : Initial Calibration

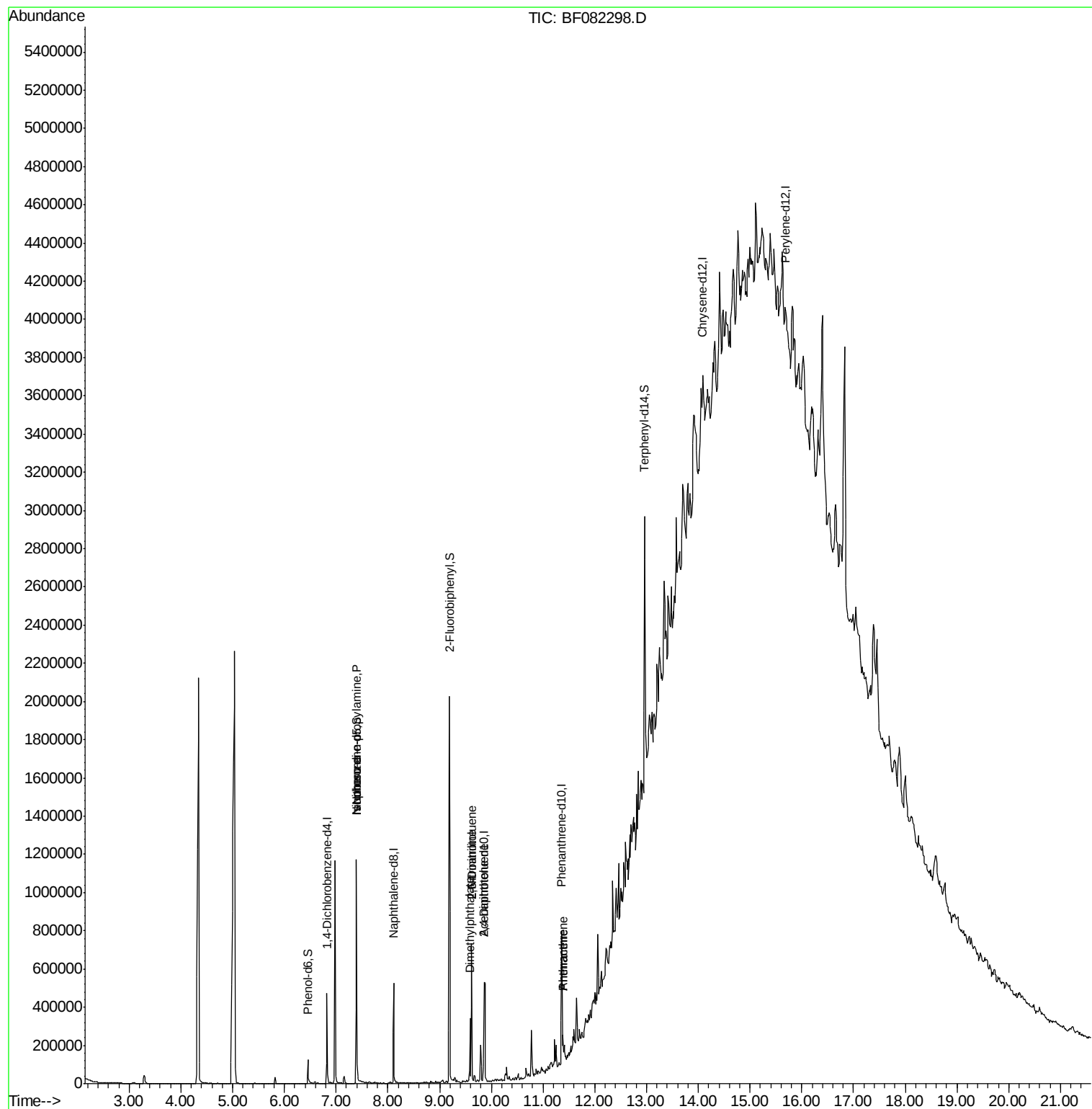
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 81634    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.11  | 136  | 308580   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.86  | 164  | 151060   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.36 | 188  | 298454   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.08 | 240  | 157557   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.68 | 264  | 143862   | 20.00  | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.43  | 112  | 1415     | 0.35   | ng    | 0.01     |
| 7) Phenol-d6                   | 6.46  | 99   | 64646    | 12.28  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 436631   | 95.02  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 0.00  | 330  | 0        | 0.00   | ng    |          |
| 44) 2-Fluorobiphenyl           | 9.19  | 172  | 808983   | 88.81  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.96 | 244  | 627784   | 105.59 | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 58394    | 15.80  | ng    | # 76     |
| 25) Isophorone                 | 7.39  | 82   | 326903   | 35.25  | ng    | # 66     |
| 47) 2-Nitroaniline             | 9.62  | 65   | 5761     | 2.31   | ng    | # 17     |
| 49) Dimethylphthalate          | 9.59  | 163  | 147546   | 13.87  | ng    | 98       |
| 50) 2,6-Dinitrotoluene         | 9.62  | 165  | 97655    | 43.51  | ng    | # 31     |
| 56) 2,4-Dinitrotoluene         | 9.86  | 165  | 19824    | 7.07   | ng    | # 25     |
| 70) Phenanthrene               | 11.38 | 178  | 40533    | 2.77   | ng    | 98       |
| 71) Anthracene                 | 11.38 | 178  | 40533    | 2.69   | ng    | 99       |

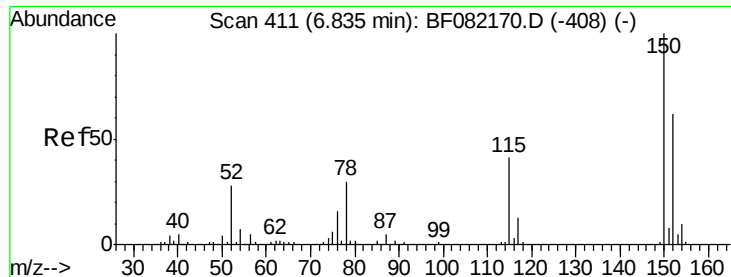
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 410

Delta R.T. 0.00 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampled :

CS-5

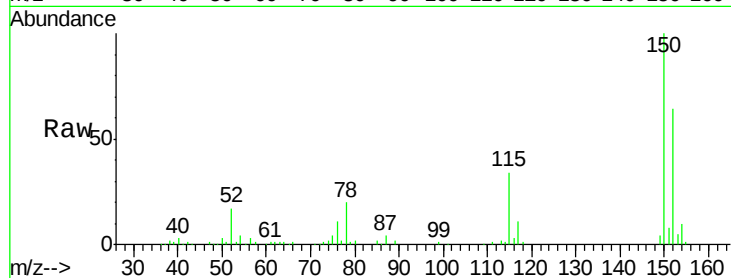
Tot Ion:152 Resp: 81634

Ion Ratio Lower Upper

152 100

150 157.5 129.0 193.4

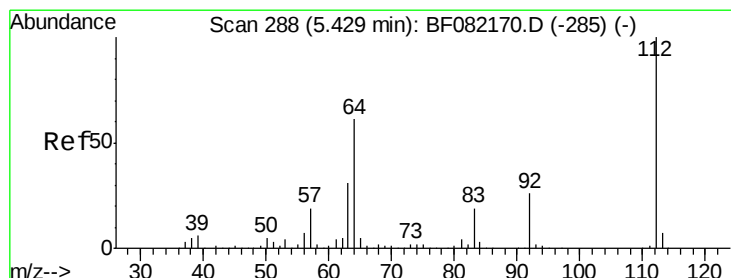
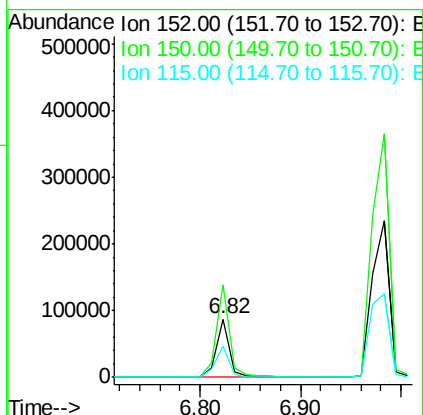
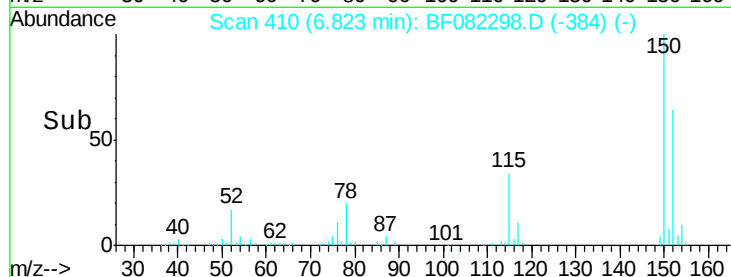
115 53.1 52.1 78.1



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



#5

2-Fluorophenol

Concen: 0.35 ng

RT: 5.43 min Scan# 288

Delta R.T. 0.01 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

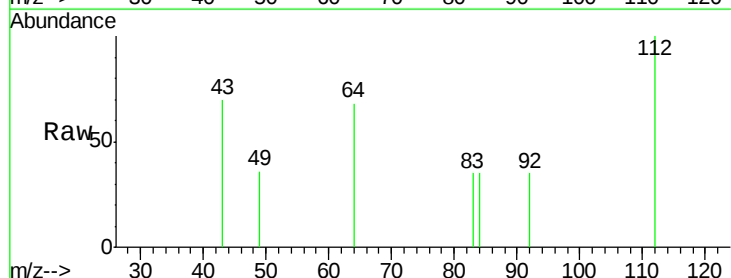
Tgt Ion:112 Resp: 1415

Ion Ratio Lower Upper

112 100

64 67.7 48.6 73.0

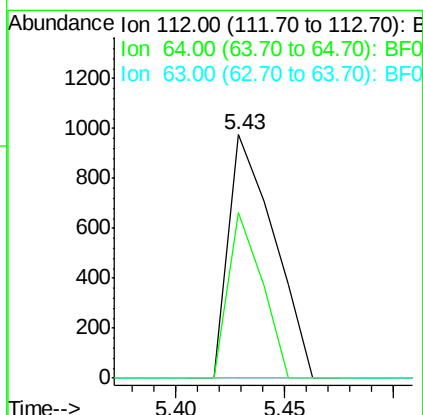
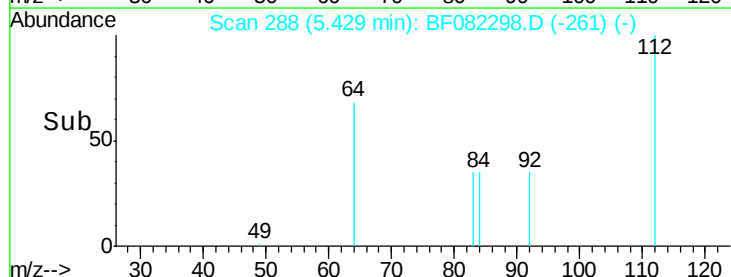
63 0.0 25.1 37.7#

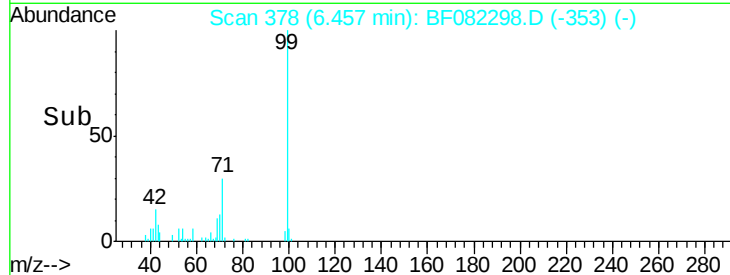
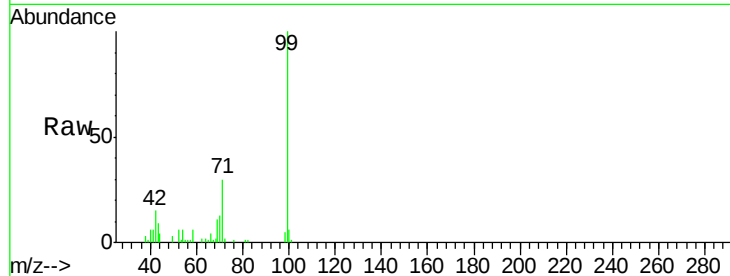


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 12.28 ng

RT: 6.46 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampleId :

CS-5

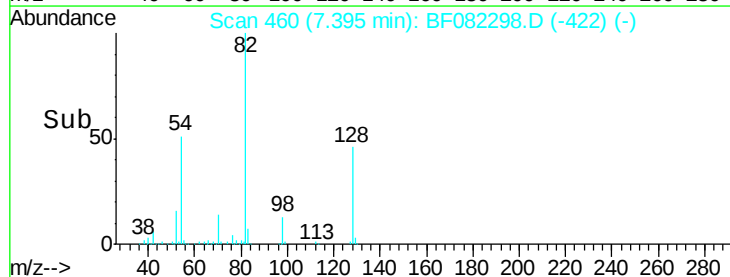
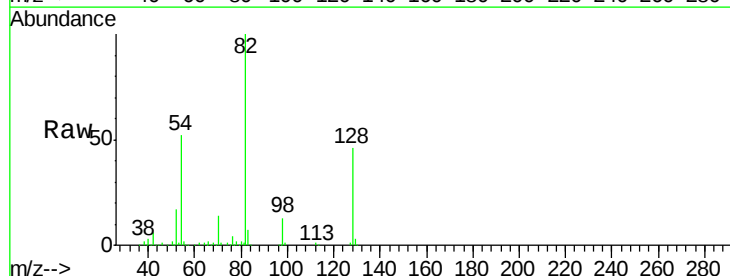
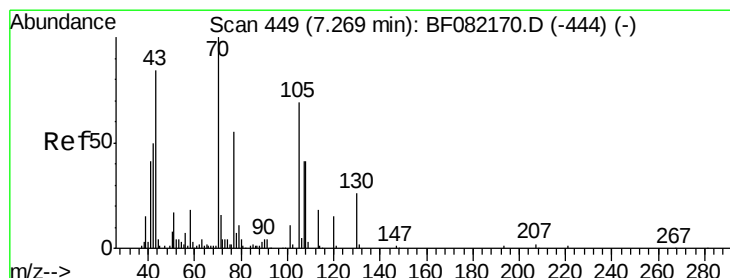
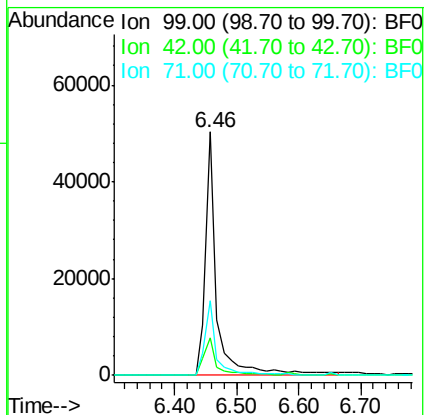
Tot Ion: 99 Resp: 64646

Ion Ratio Lower Upper

99 100

42 15.3 13.2 19.8

71 30.5 25.6 38.4



#19

n-Nitroso-di-n-propylamine

Concen: 15.80 ng

RT: 7.39 min Scan# 460

Delta R.T. 0.14 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

Tgt Ion: 70 Resp: 58394

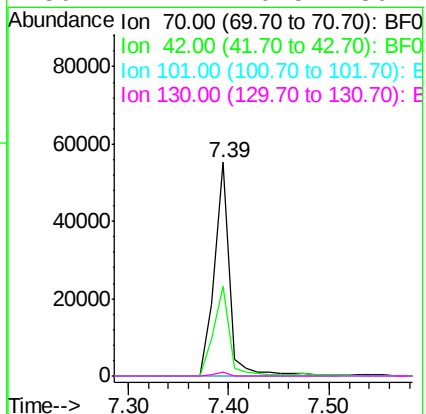
Ion Ratio Lower Upper

70 100

42 42.2 39.8 59.8

101 0.0 8.6 13.0#

130 2.1 20.5 30.7#

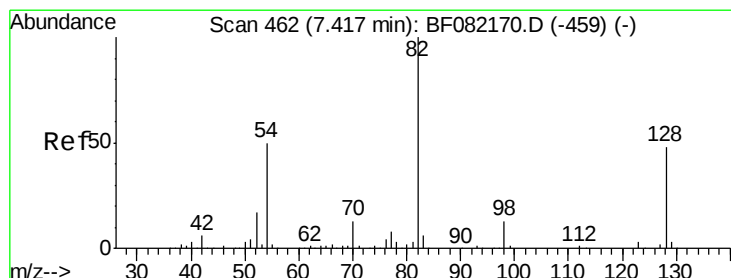
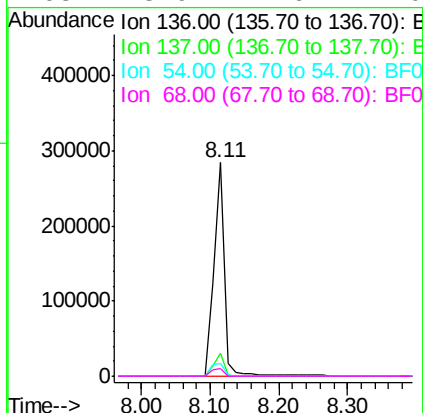
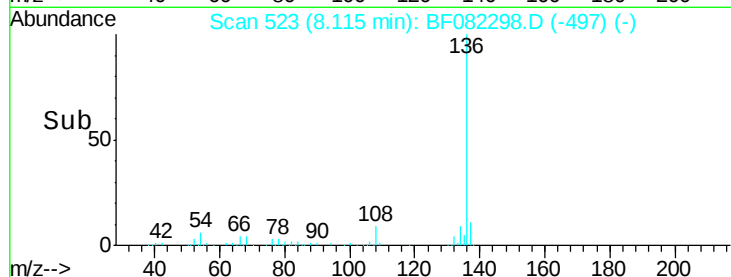
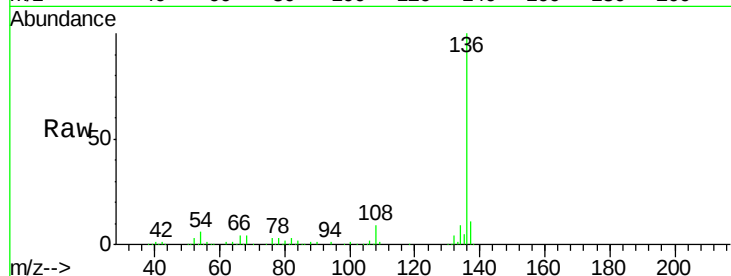




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.11 min Scan# 523  
Delta R.T. 0.00 min  
Lab File: BF082298.D  
Acq: 15 Oct 2015 9:38

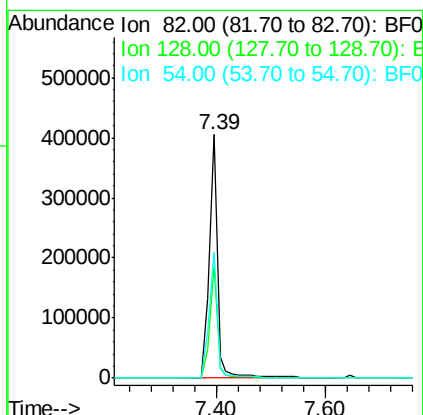
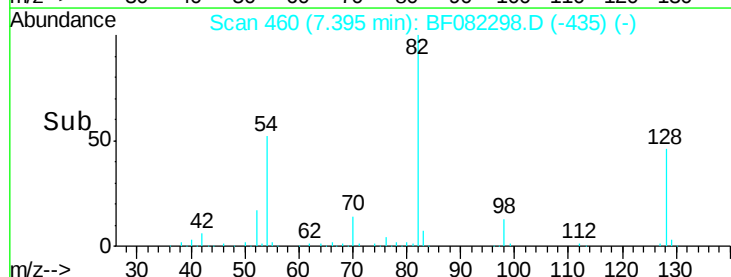
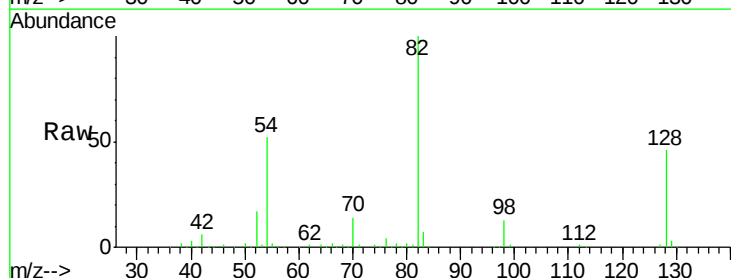
Instrument :  
BNA\_F  
ClientSampleId :  
CS-5

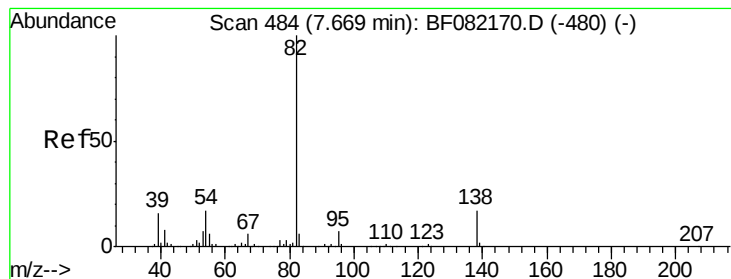
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 308580    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 10.6  | 9.0 13.6  |
| 54          | 5.9   | 7.5 11.3# |
| 68          | 3.9   | 4.6 7.0#  |



#23  
Nitrobenzene-d5  
Concen: 95.02 ng  
RT: 7.39 min Scan# 460  
Delta R.T. -0.01 min  
Lab File: BF082298.D  
Acq: 15 Oct 2015 9:38

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 436631    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 46.0  | 38.7 58.1 |
| 54          | 51.5  | 40.1 60.1 |





#25

Isophorone

Concen: 35.25 ng

RT: 7.39 min Scan# 460

Delta R.T. -0.26 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampled :

CS-5

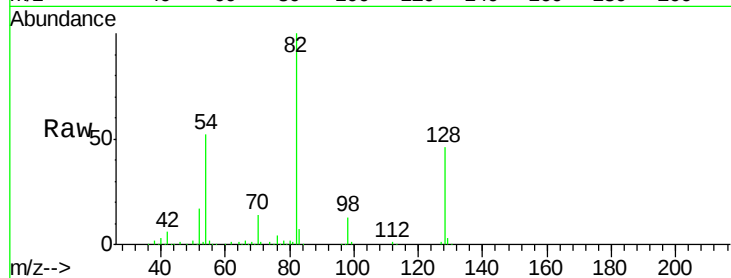
Tot Ion: 82 Resp: 326903

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

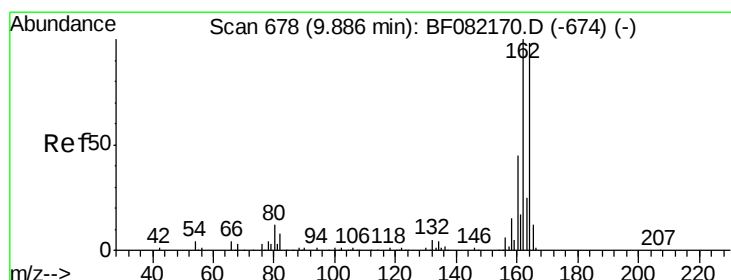
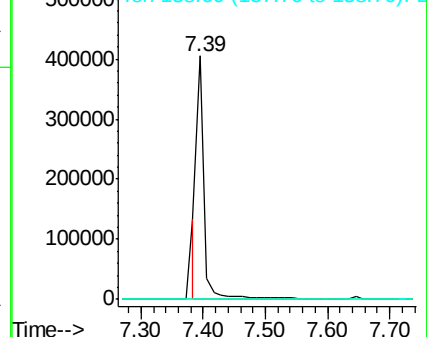
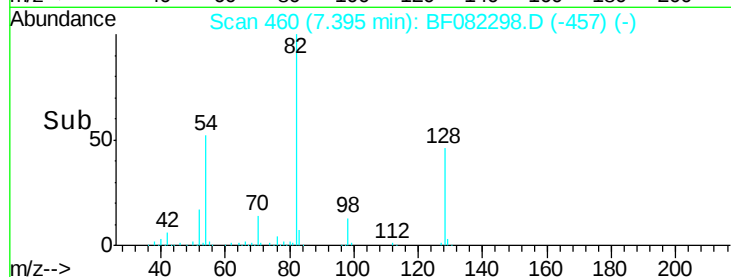
138 0.0 13.6 20.4#



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: 9.86 min Scan# 676

Delta R.T. -0.01 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

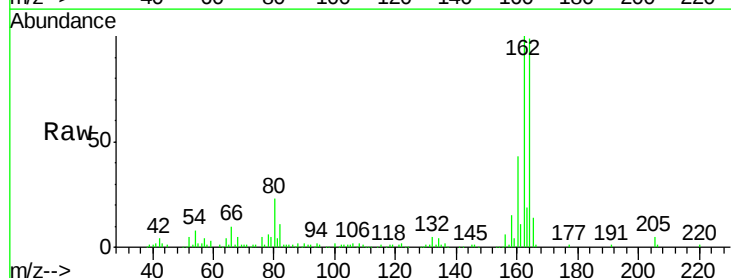
Tgt Ion: 164 Resp: 151060

Ion Ratio Lower Upper

164 100

162 101.5 81.6 122.4

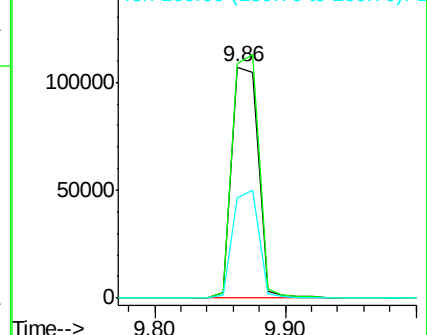
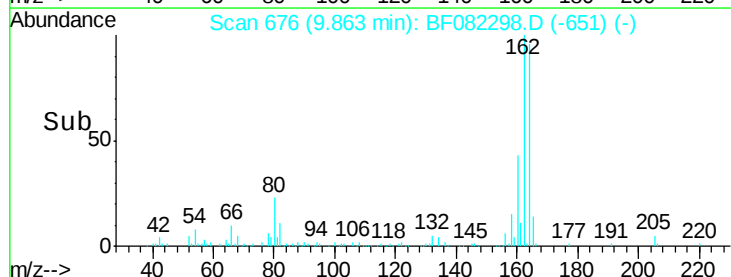
160 43.5 36.4 54.6

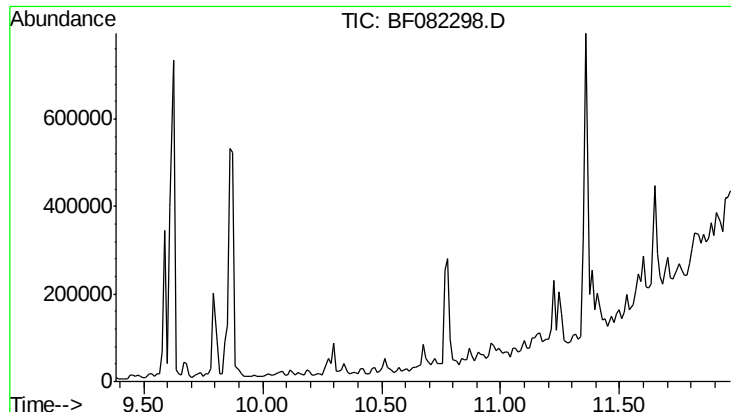


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

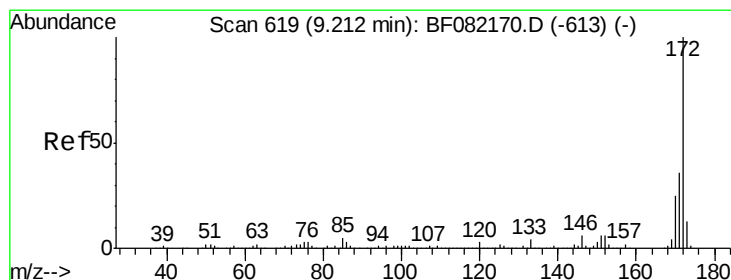
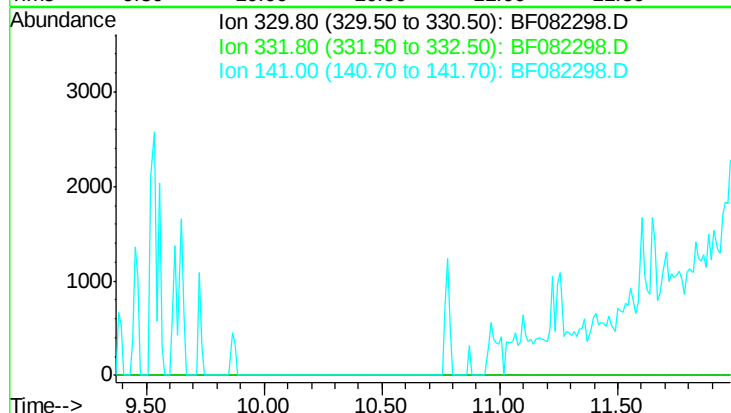




#41  
 2,4,6-Tribromophenol  
 Concen: 0.00 ng  
 Expected RT: 10.67 min  
 Lab File: BF082298.D  
 Acq: 15 Oct 2015 9:38

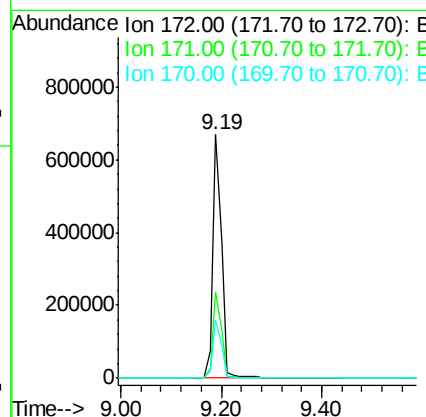
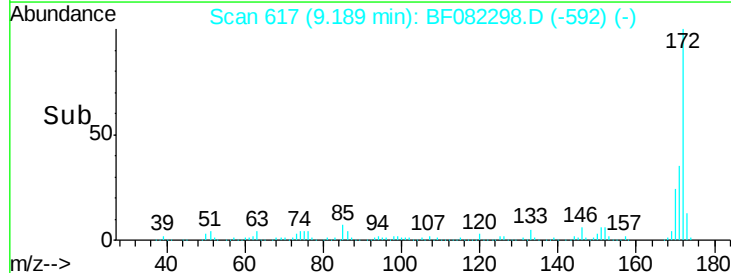
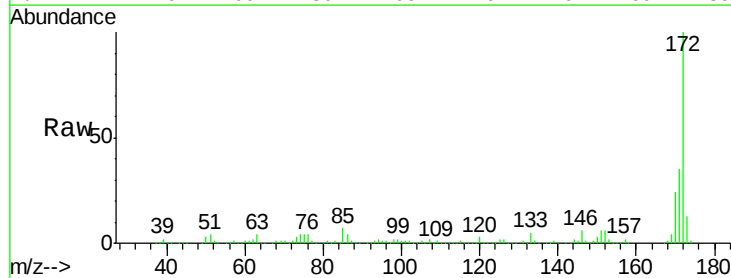
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-5

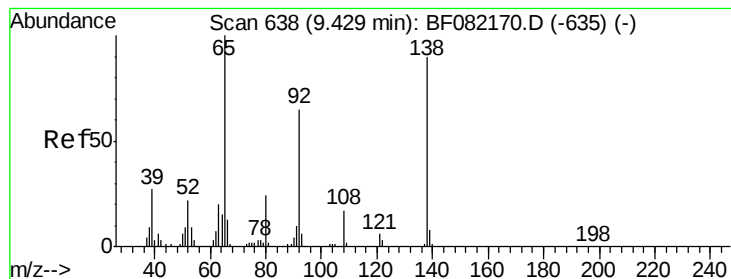
Tot Ion: 330  
 Sig Exp Ratio  
 330 100  
 332 96.4  
 141 37.3



#44  
 2-Fluorobiphenyl  
 Concen: 88.81 ng  
 RT: 9.19 min Scan# 617  
 Delta R.T. -0.01 min  
 Lab File: BF082298.D  
 Acq: 15 Oct 2015 9:38

Tgt Ion: 172 Resp: 808983  
 Ion Ratio Lower Upper  
 172 100  
 171 35.3 28.6 42.8  
 170 23.7 19.7 29.5





#47

2-Nitroaniline

Concen: 2.31 ng

RT: 9.62 min Scan# 655

Delta R.T. 0.19 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampleId :

CS-5

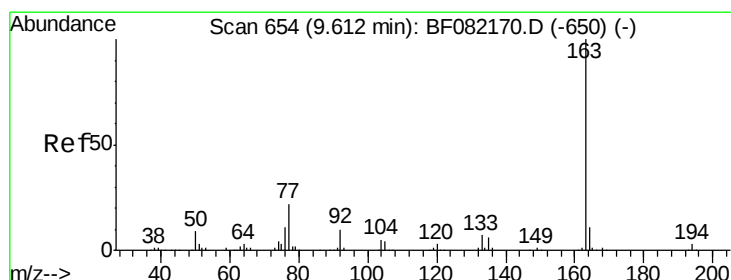
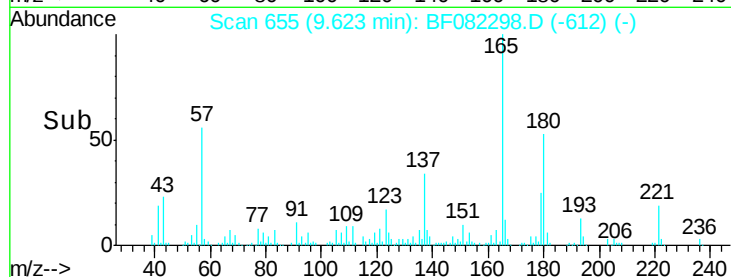
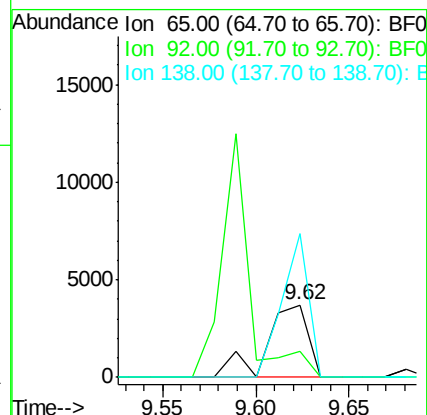
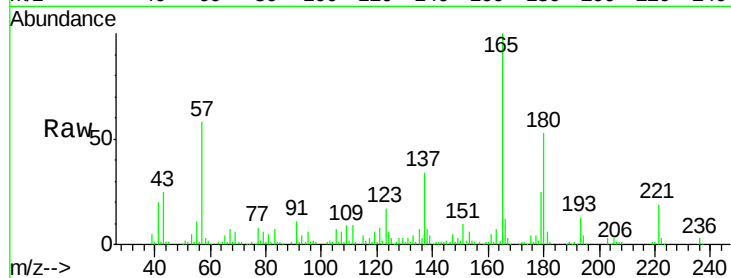
Tot Ion: 65 Resp: 5761

Ion Ratio Lower Upper

65 100

92 35.1 52.3 78.5#

138 198.4 72.2 108.4#



#49

Dimethylphthalate

Concen: 13.87 ng

RT: 9.59 min Scan# 652

Delta R.T. -0.02 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

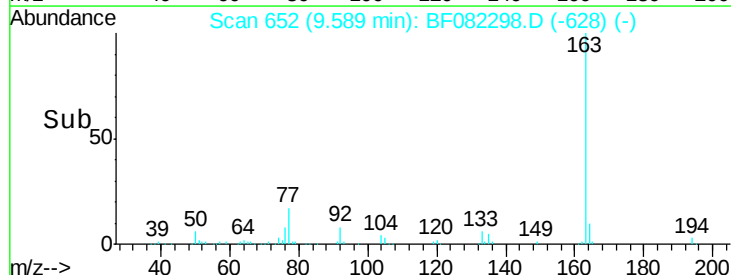
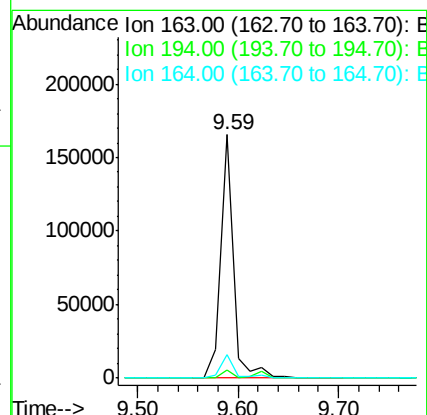
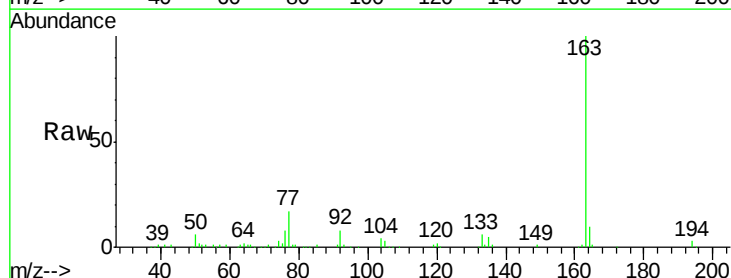
Tgt Ion: 163 Resp: 147546

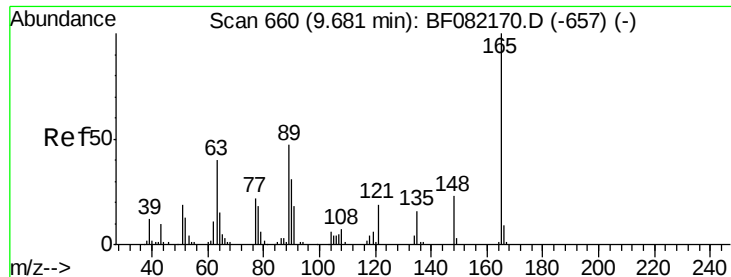
Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

164 9.6 8.5 12.7





#50

2,6-Dinitrotoluene

Concen: 43.51 ng

RT: 9.62 min Scan# 655

Delta R.T. -0.05 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampleId :

CS-5

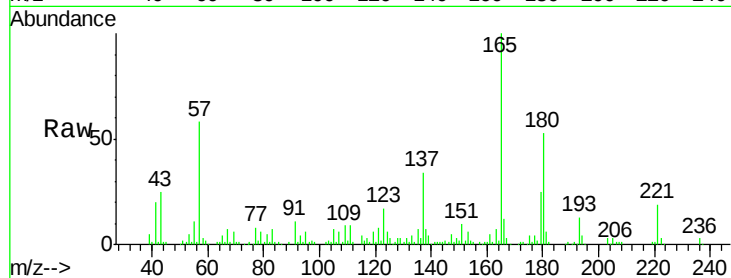
Tot Ion:165 Resp: 97655

Ion Ratio Lower Upper

165 100

63 0.9 36.7 55.1#

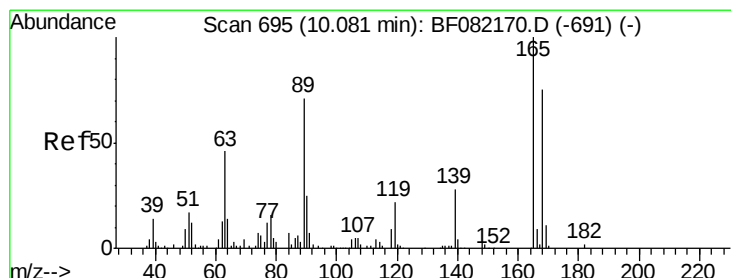
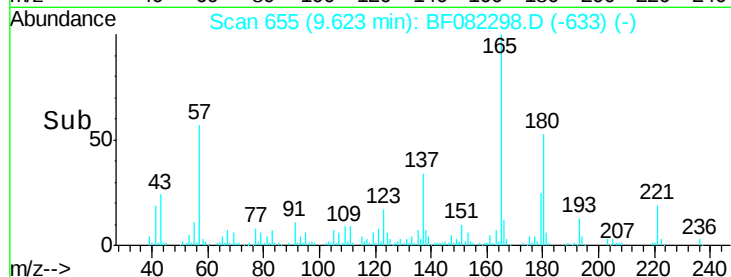
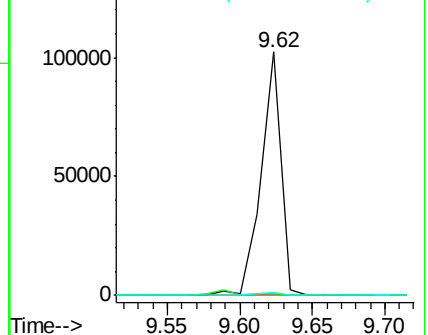
89 1.1 37.8 56.6#



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



#56

2,4-Dinitrotoluene

Concen: 7.07 ng

RT: 9.86 min Scan# 676

Delta R.T. -0.21 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

Tgt Ion:165 Resp: 19824

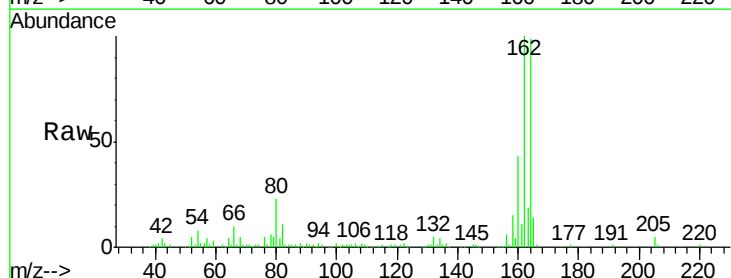
Ion Ratio Lower Upper

165 100

63 2.6 38.6 58.0#

89 2.8 57.0 85.6#

182 0.0 1.8 2.6#

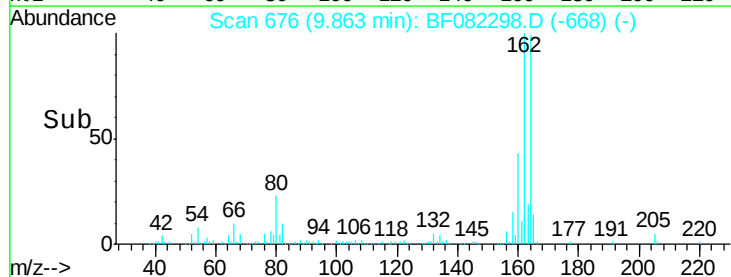
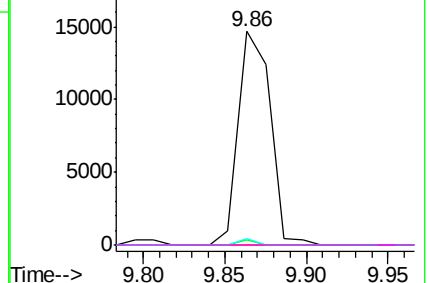


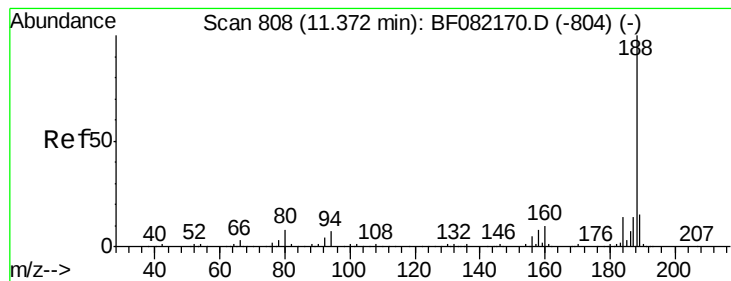
Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.36 min Scan# 807

Delta R.T. 0.00 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampled :

CS-5

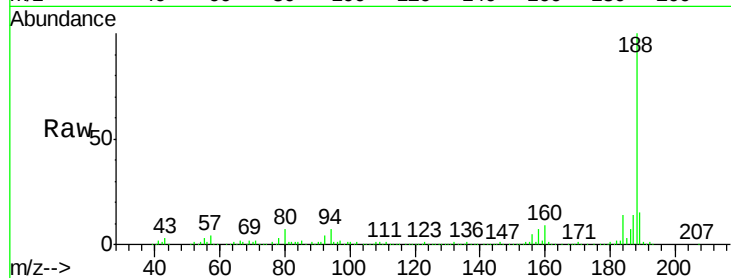
Tot Ion:188 Resp: 298454

Ion Ratio Lower Upper

188 100

94 6.8 5.8 8.6

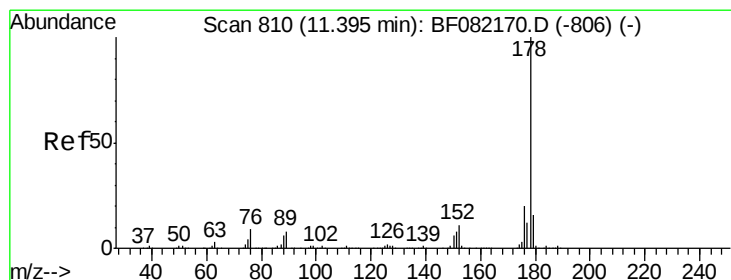
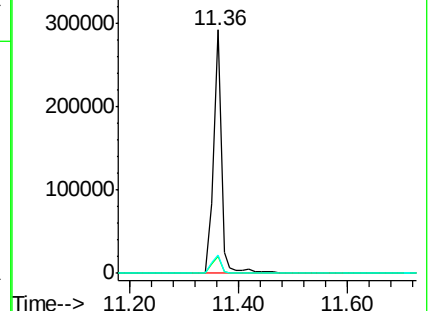
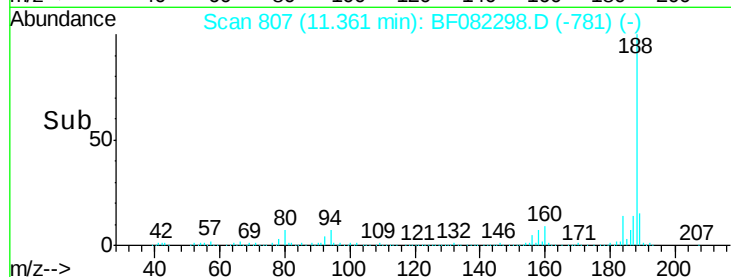
80 7.4 6.4 9.6



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



#70

Phenanthrene

Concen: 2.77 ng

RT: 11.38 min Scan# 809

Delta R.T. -0.01 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

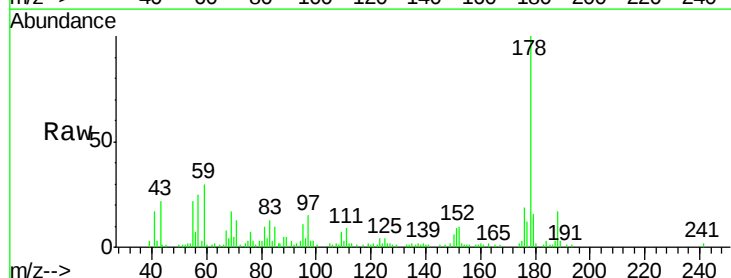
Tgt Ion:178 Resp: 40533

Ion Ratio Lower Upper

178 100

176 18.7 16.0 24.0

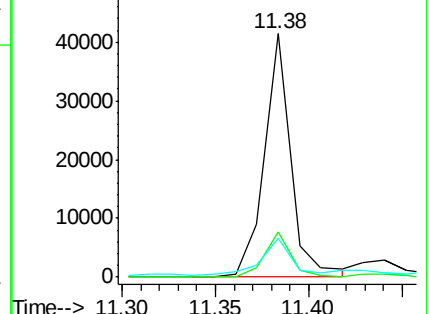
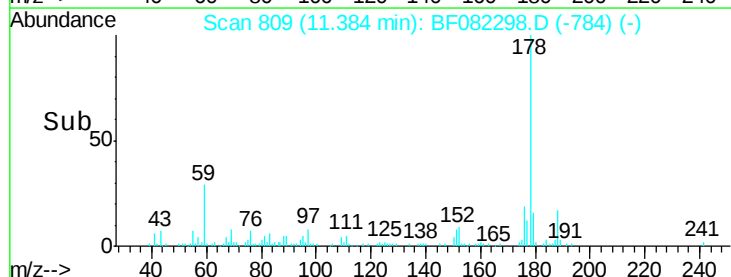
179 15.7 12.6 19.0

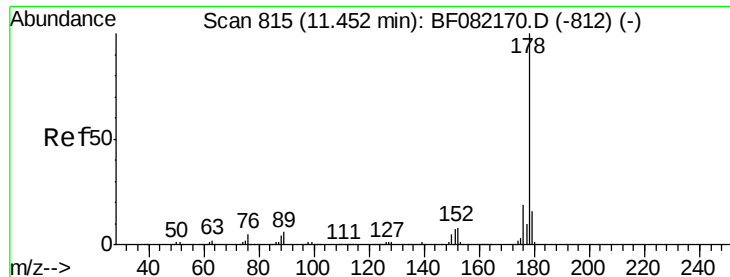


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

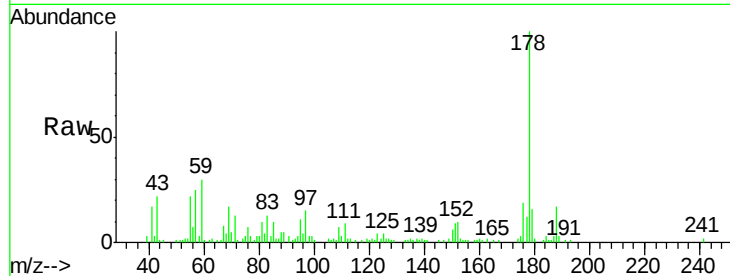




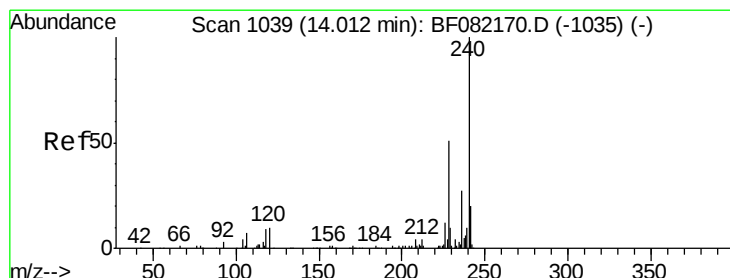
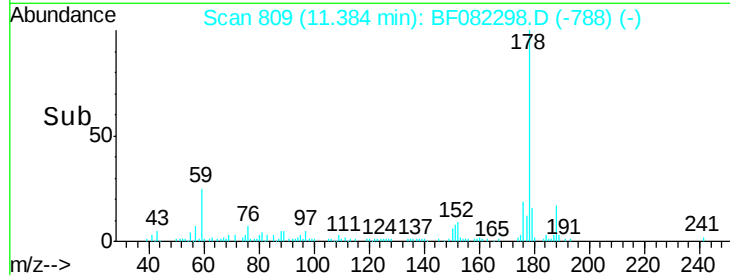
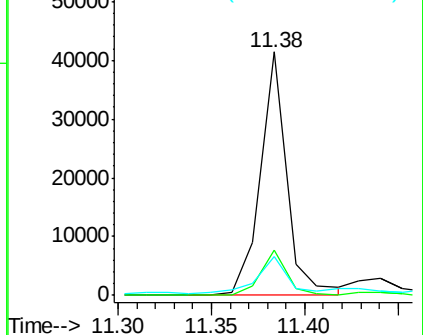
#71  
 Anthracene  
 Concen: 2.69 ng  
 RT: 11.38 min Scan# 809  
 Delta R.T. -0.06 min  
 Lab File: BF082298.D  
 Acq: 15 Oct 2015 9:38

Instrument :  
 BNA\_F  
 ClientSampled :  
 CS-5

Tot Ion:178 Resp: 40533  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 15.4 23.0  
 179 15.7 12.5 18.7

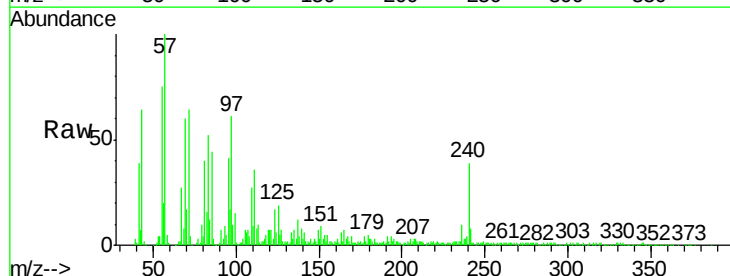


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

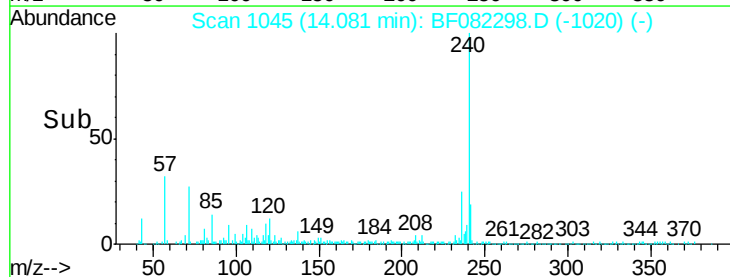
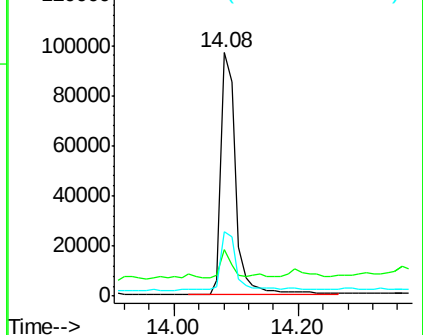


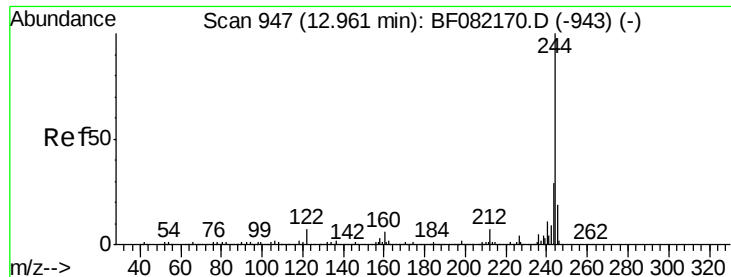
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.08 min Scan# 1045  
 Delta R.T. -0.01 min  
 Lab File: BF082298.D  
 Acq: 15 Oct 2015 9:38

Tgt Ion:240 Resp: 157557  
 Ion Ratio Lower Upper  
 240 100  
 120 18.9 8.1 12.1#  
 236 26.6 21.3 31.9



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: 105.59 ng

RT: 12.96 min Scan# 947

Delta R.T. -0.01 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

Instrument :

BNA\_F

ClientSampleId :

CS-5

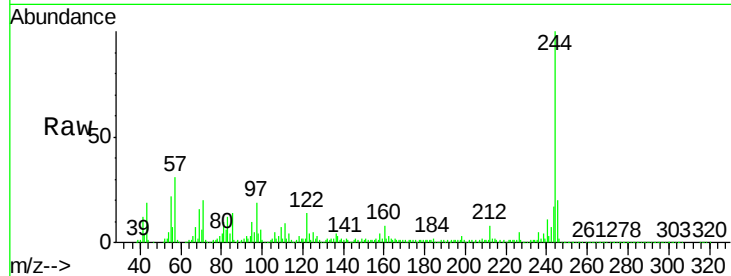
Tot Ion:244 Resp: 627784

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.6

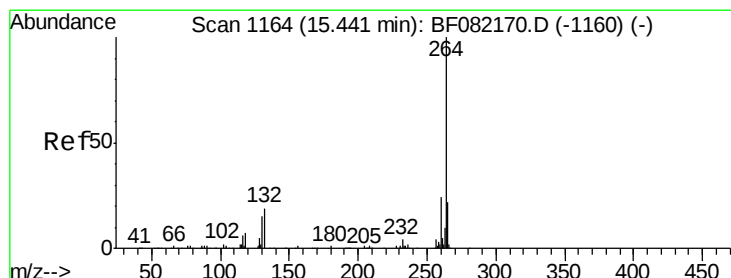
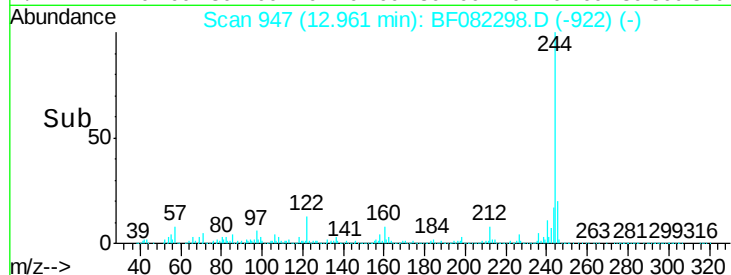
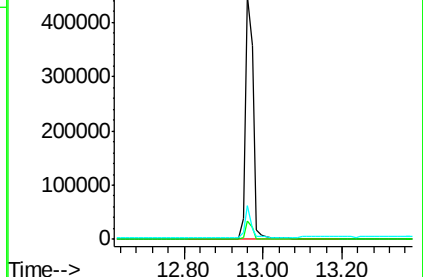
122 13.6 5.9 8.9#



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: 15.68 min Scan# 1185

Delta R.T. 0.02 min

Lab File: BF082298.D

Acq: 15 Oct 2015 9:38

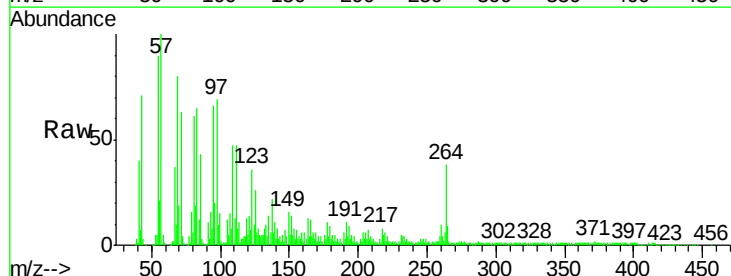
Tgt Ion:264 Resp: 143862

Ion Ratio Lower Upper

264 100

260 25.7 19.0 28.6

265 24.5 17.3 25.9



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

