

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF110816\  
 Data File : BF091106.D  
 Acq On : 9 Nov 2016 3:16  
 Operator : UM/SJ  
 Sample : H5593-02MS  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WEST-SIDEWALLMS

Quant Time: Nov 09 06:02:57 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 08 12:59:29 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.66  | 152  | 191993   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.95  | 136  | 781857   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.70  | 164  | 379467   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.17 | 188  | 520575   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.81 | 240  | 419232   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.19 | 264  | 367731   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.26  | 112 | 1585262 | 136.37 | ng | 0.02 |
| 7) Phenol-d6             | 6.33  | 99  | 1827216 | 115.80 | ng | 0.01 |
| 23) Nitrobenzene-d5      | 7.24  | 82  | 1367049 | 95.38  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.50 | 330 | 462056  | 134.69 | ng | 0.01 |
| 44) 2-Fluorobiphenyl     | 9.04  | 172 | 2056716 | 93.31  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.76 | 244 | 1404071 | 83.58  | ng | 0.00 |

## Target Compounds

|                                |      |     |         |       |    | Qvalue |
|--------------------------------|------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.18 | 88  | 173611  | 26.11 | ng | 96     |
| 3) Pyridine                    | 2.84 | 79  | 487415  | 31.33 | ng | 98     |
| 4) n-Nitrosodimethylamine      | 2.80 | 42  | 222971  | 36.23 | ng | 95     |
| 6) Aniline                     | 6.33 | 93  | 384644  | 20.67 | ng | # 74   |
| 8) 2-Chlorophenol              | 6.45 | 128 | 544822  | 39.29 | ng | 91     |
| 9) Benzaldehyde                | 6.21 | 77  | 57926   | 6.61  | ng | 92     |
| 10) Phenol                     | 6.34 | 94  | 750955  | 43.00 | ng | # 66   |
| 11) bis(2-Chloroethyl)ether    | 6.41 | 93  | 611402  | 41.55 | ng | 94     |
| 12) 1,3-Dichlorobenzene        | 6.60 | 146 | 535679  | 38.20 | ng | 97     |
| 13) 1,4-Dichlorobenzene        | 6.68 | 146 | 547723  | 36.40 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 6.83 | 146 | 492744  | 35.68 | ng | 96     |
| 15) Benzyl Alcohol             | 6.82 | 79  | 393824  | 35.38 | ng | 96     |
| 16) 2,2'-oxybis(1-Chloropropan | 6.96 | 45  | 724770  | 34.40 | ng | 88     |
| 17) 2-Methylphenol             | 6.94 | 107 | 435932  | 39.71 | ng | 96     |
| 18) Hexachloroethane           | 7.17 | 117 | 203422  | 34.93 | ng | 95     |
| 19) n-Nitroso-di-n-propylamine | 7.09 | 70  | 416007  | 38.05 | ng | 97     |
| 20) 3+4-Methylphenols          | 7.10 | 107 | 561498  | 42.60 | ng | 97     |
| 22) Acetophenone               | 7.08 | 105 | 737820  | 40.99 | ng | # 95   |
| 24) Nitrobenzene               | 7.25 | 77  | 553469  | 34.97 | ng | 92     |
| 25) Isophorone                 | 7.49 | 82  | 1043532 | 37.78 | ng | 98     |
| 26) 2-Nitrophenol              | 7.57 | 139 | 278190  | 41.53 | ng | # 79   |
| 27) 2,4-Dimethylphenol         | 7.63 | 122 | 457643  | 41.31 | ng | 97     |
| 28) bis(2-Chloroethoxy)methane | 7.71 | 93  | 618765  | 41.01 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 7.82 | 162 | 397172  | 41.08 | ng | 94     |
| 30) 1,2,4-Trichlorobenzene     | 7.89 | 180 | 409785  | 37.69 | ng | 98     |
| 31) Naphthalene                | 7.97 | 128 | 1471081 | 39.34 | ng | 99     |
| 32) Benzoic acid               | 7.73 | 122 | 48001   | 10.04 | ng | 100    |
| 33) 4-Chloroaniline            | 8.04 | 127 | 209958  | 13.50 | ng | 96     |
| 34) Hexachlorobutadiene        | 8.10 | 225 | 224631  | 38.28 | ng | 96     |
| 35) Caprolactam                | 8.41 | 113 | 80723   | 26.58 | ng | # 85   |
| 36) 4-Chloro-3-methylphenol    | 8.53 | 107 | 471878  | 40.32 | ng | 92     |
| 37) 2-Methylnaphthalene        | 8.66 | 142 | 887964  | 36.94 | ng | 99     |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.83 | 216 | 395987  | 40.93 | ng | 100    |
| 40) Hexachlorocyclopentadiene  | 8.82 | 237 | 120039  | 36.11 | ng | 98     |

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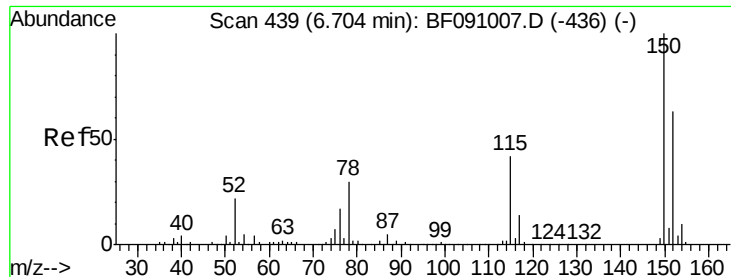
Instrument :  
 BNA\_F  
 ClientSampleId :  
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Quant Time: Nov 09 06:02:57 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
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 QLast Update : Tue Nov 08 12:59:29 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 8.96  | 196  | 253861   | 40.65 | ng    | 98       |
| 43) 2,4,5-Trichlorophenol      | 9.00  | 196  | 277078   | 42.25 | ng    | 97       |
| 45) 1,1'-Biphenyl              | 9.13  | 154  | 1057857  | 38.18 | ng    | 100      |
| 46) 2-Chloronaphthalene        | 9.15  | 162  | 838642   | 39.87 | ng    | 98       |
| 47) 2-Nitroaniline             | 9.25  | 65   | 285504   | 36.57 | ng    | 90       |
| 48) Acenaphthylene             | 9.56  | 152  | 1245503  | 37.99 | ng    | 100      |
| 49) Dimethylphthalate          | 9.44  | 163  | 1232567  | 49.54 | ng    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.50  | 165  | 223104   | 41.84 | ng    | # 54     |
| 51) Acenaphthene               | 9.73  | 154  | 743705   | 36.13 | ng    | 99       |
| 52) 3-Nitroaniline             | 9.66  | 138  | 171992   | 27.20 | ng    | 94       |
| 53) 2,4-Dinitrophenol          | 9.79  | 184  | 23595    | 13.75 | ng    | # 64     |
| 54) Dibenzofuran               | 9.90  | 168  | 1075330  | 38.81 | ng    | 99       |
| 55) 4-Nitrophenol              | 9.85  | 139  | 243182   | 59.34 | ng    | 94       |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 277390   | 40.88 | ng    | # 86     |
| 57) Fluorene                   | 10.25 | 166  | 878563   | 38.79 | ng    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.03 | 232  | 204394   | 39.79 | ng    | # 97     |
| 59) Diethylphthalate           | 10.13 | 149  | 970370   | 38.04 | ng    | 98       |
| 60) 4-Chlorophenyl-phenylether | 10.25 | 204  | 425424   | 41.28 | ng    | 98       |
| 61) 4-Nitroaniline             | 10.28 | 138  | 198360   | 31.01 | ng    | 97       |
| 62) Azobenzene                 | 10.40 | 77   | 1136177  | 37.83 | ng    | 82       |
| 64) 4,6-Dinitro-2-methylphenol | 10.32 | 198  | 27933    | 8.76  | ng    | # 58     |
| 65) n-Nitrosodiphenylamine     | 10.36 | 169  | 736207   | 44.49 | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.73 | 248  | 234322   | 43.27 | ng    | 92       |
| 67) Hexachlorobenzene          | 10.80 | 284  | 269470   | 45.12 | ng    | 93       |
| 68) Atrazine                   | 10.90 | 200  | 234381   | 49.10 | ng    | 98       |
| 69) Pentachlorophenol          | 10.99 | 266  | 214743   | 81.19 | ng    | 98       |
| 70) Phenanthrene               | 11.21 | 178  | 1225837  | 44.30 | ng    | 99       |
| 71) Anthracene                 | 11.25 | 178  | 1121116  | 38.11 | ng    | 99       |
| 72) Carbazole                  | 11.41 | 167  | 970865   | 36.62 | ng    | 100      |
| 73) Di-n-butylphthalate        | 11.76 | 149  | 1521493  | 45.63 | ng    | 100      |
| 74) Fluoranthene               | 12.39 | 202  | 1012685  | 35.28 | ng    | 98       |
| 76) Benzidine                  | 12.52 | 184  | 128487   | 13.72 | ng    | 97       |
| 77) Pyrene                     | 12.61 | 202  | 1109069  | 40.40 | ng    | 99       |
| 79) Butylbenzylphthalate       | 13.24 | 149  | 526025   | 40.05 | ng    | 89       |
| 80) Benzo(a)anthracene         | 13.80 | 228  | 931176   | 39.12 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 13.77 | 252  | 232036   | 27.75 | ng    | # 98     |
| 82) Chrysene                   | 13.84 | 228  | 912416   | 38.87 | ng    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 13.80 | 149  | 669203   | 37.65 | ng    | # 99     |
| 84) Di-n-octyl phthalate       | 14.42 | 149  | 1177290  | 40.29 | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.48 | 276  | 754899   | 38.76 | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 14.81 | 252  | 1835912  | 73.61 | ng    | # 98     |
| 88) Benzo(k)fluoranthene       | 14.81 | 252  | 1835912  | 83.92 | ng    | 98       |
| 89) Benzo(a)pyrene             | 15.14 | 252  | 881078   | 40.58 | ng    | 98       |
| 90) Dibenzo(a,h)anthracene     | 16.49 | 278  | 632427   | 33.69 | ng    | 100      |
| 91) Benzo(g,h,i)perylene       | 16.87 | 276  | 568477   | 33.49 | ng    | 95       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 435

Delta R.T. 0.00 min

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WEST-SIDEWALLMS

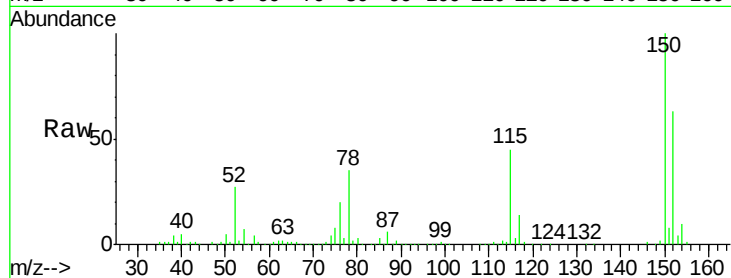
Tgt Ion:152 Resp: 191993

Ion Ratio Lower Upper

152 100

150 158.9 126.8 190.2

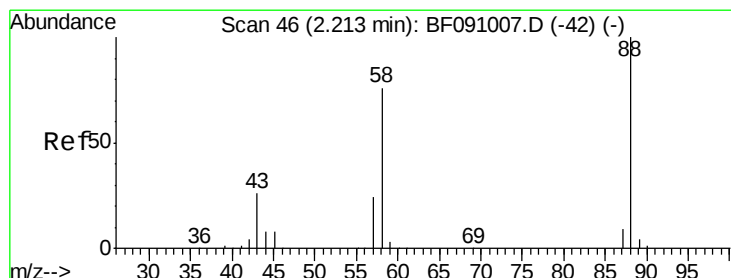
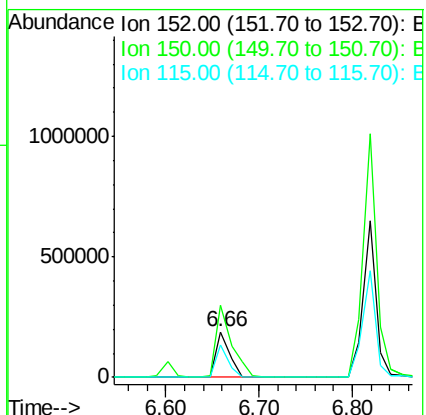
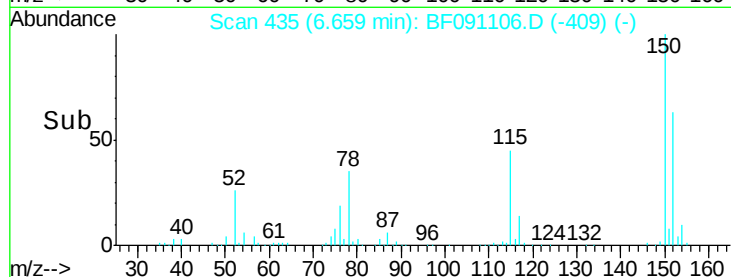
115 72.2 53.3 79.9



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



#2

1,4-Dioxane

Concen: 26.11 ng

RT: 2.18 min Scan# 43

Delta R.T. 0.03 min

Lab File: BF091106.D

Acq: 9 Nov 2016 3:16

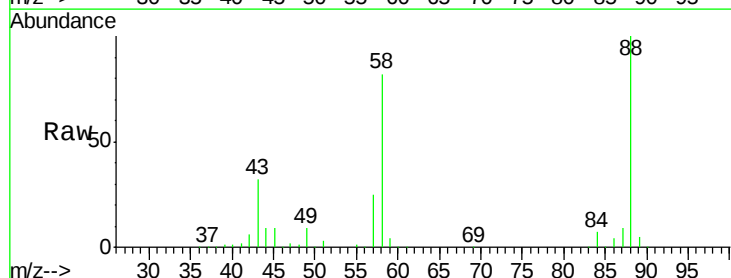
Tgt Ion: 88 Resp: 173611

Ion Ratio Lower Upper

88 100

58 81.2 63.8 95.6

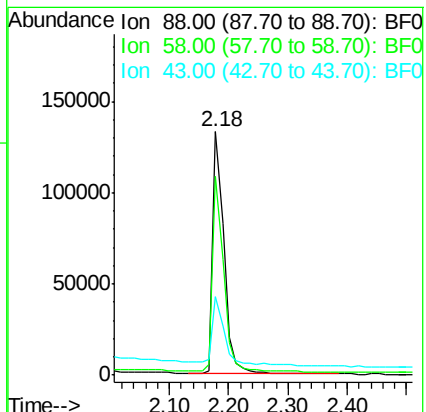
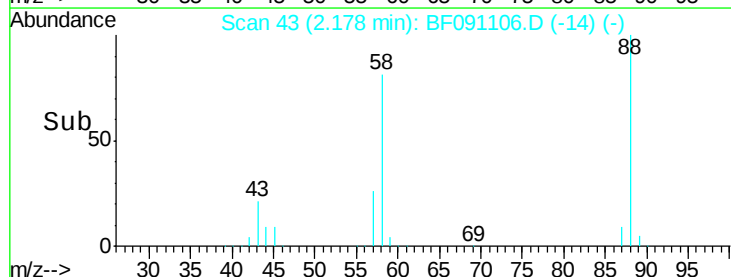
43 32.9 22.6 33.8

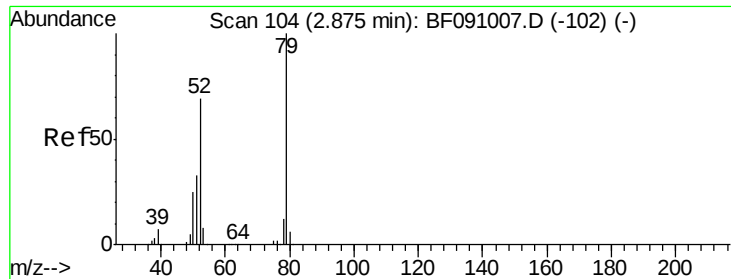


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 31.33 ng

RT: 2.84 min Scan# 101

Delta R.T. 0.06 min

Lab File: BF091106.D

Acq: 9 Nov 2016 3:16

Instrument :

BNA\_F

ClientSampleId :

WEST-SIDEWALLMS

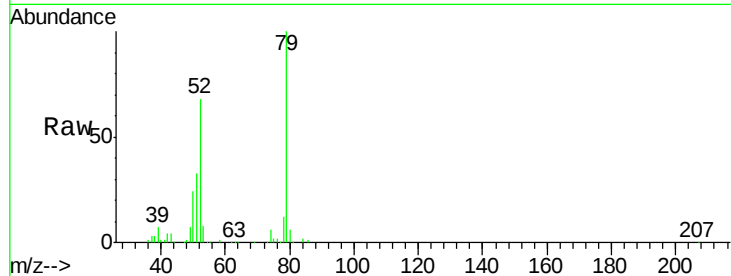
Tgt Ion: 79 Resp: 487415

Ion Ratio Lower Upper

79 100

52 68.1 55.4 83.0

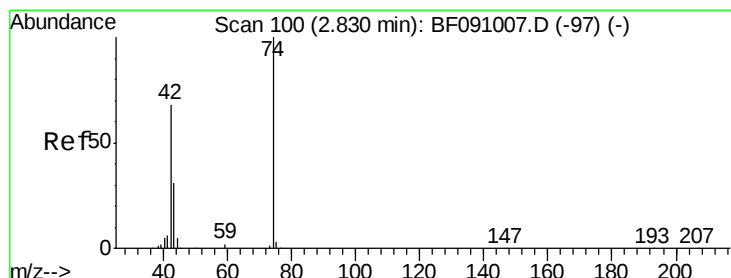
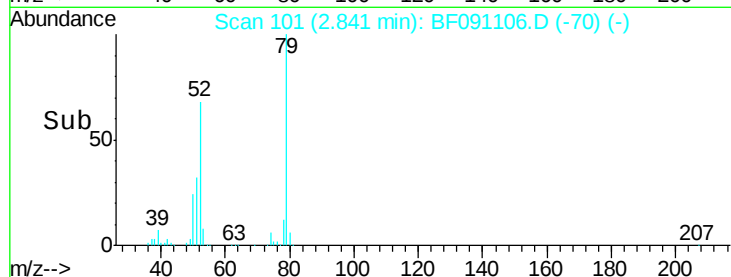
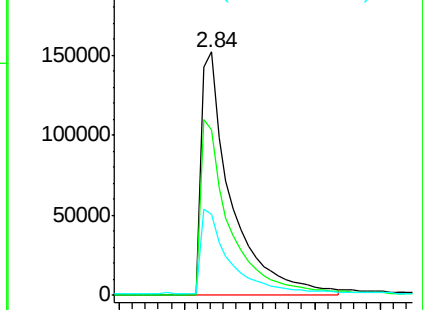
51 33.1 27.4 41.0



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#4

n-Nitrosodimethylamine

Concen: 36.23 ng

RT: 2.80 min Scan# 97

Delta R.T. 0.05 min

Lab File: BF091106.D

Acq: 9 Nov 2016 3:16

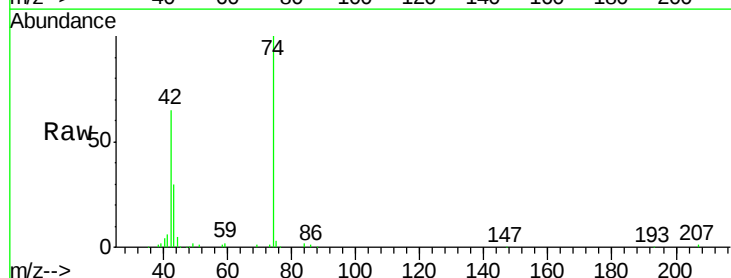
Tgt Ion: 42 Resp: 222971

Ion Ratio Lower Upper

42 100

74 153.7 117.3 175.9

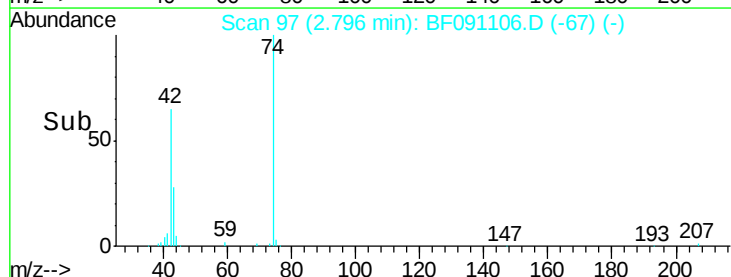
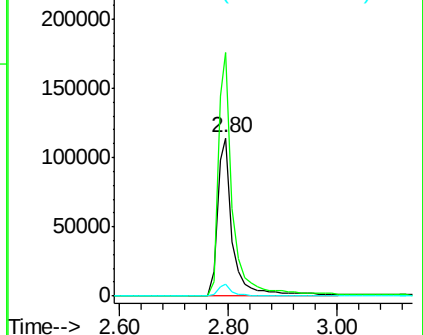
44 7.3 5.8 8.8

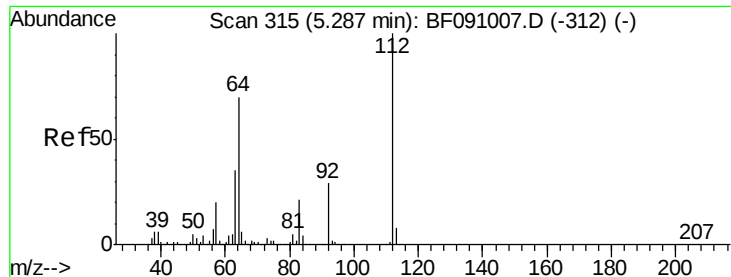


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 136.37 ng

RT: 5.26 min Scan# 313

Delta R.T. 0.02 min

Lab File: BF091106.D

Acq: 9 Nov 2016 3:16

Instrument :

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ClientSampleId :

WEST-SIDEWALLMS

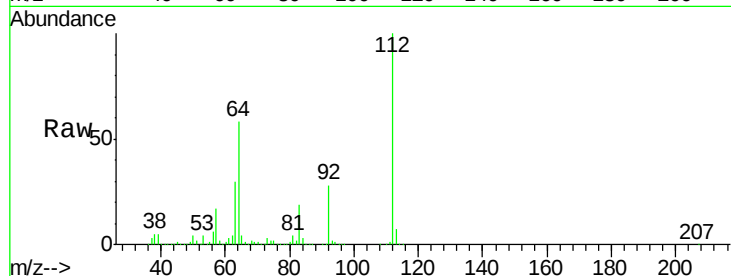
Tgt Ion: 112 Resp: 1585262

Ion Ratio Lower Upper

112 100

64 58.4 55.8 83.6

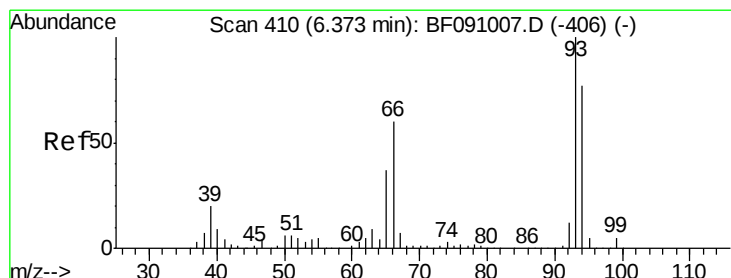
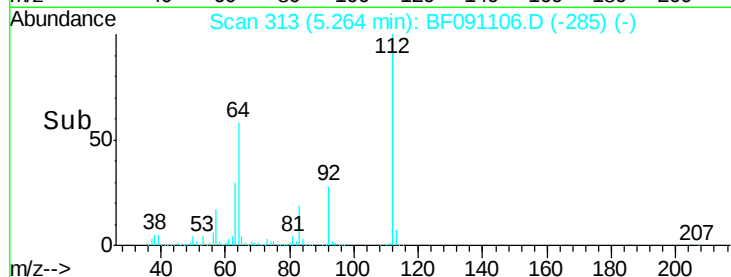
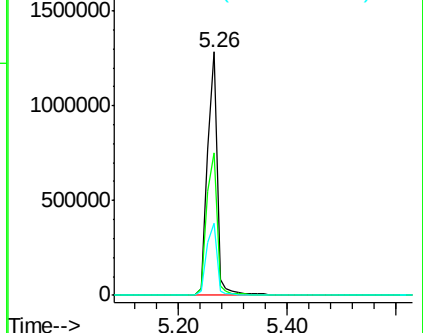
63 29.7 28.0 42.0



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



#6

Aniline

Concen: 20.67 ng

RT: 6.33 min Scan# 406

Delta R.T. 0.00 min

Lab File: BF091106.D

Acq: 9 Nov 2016 3:16

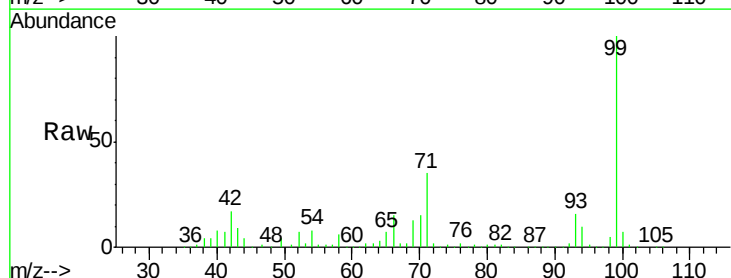
Tgt Ion: 93 Resp: 384644

Ion Ratio Lower Upper

93 100

66 89.7 48.2 72.2#

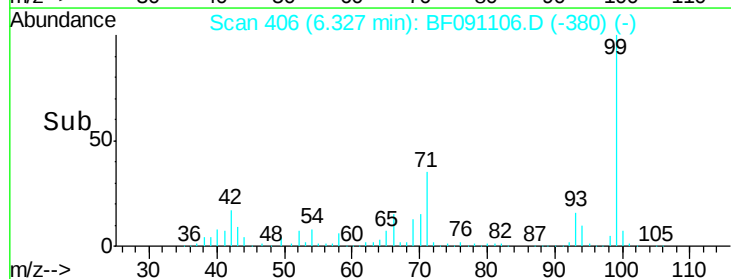
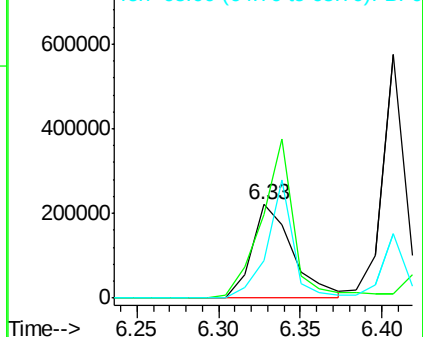
65 39.8 29.4 44.0

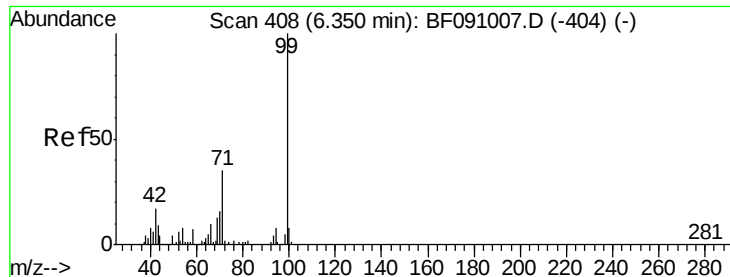


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 115.80 ng

RT: 6.33 min Scan# 406

Delta R.T. 0.01 min

Lab File: BF091106.D

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Instrument :

BNA\_F

ClientSampleId :

WEST-SIDEWALLMS

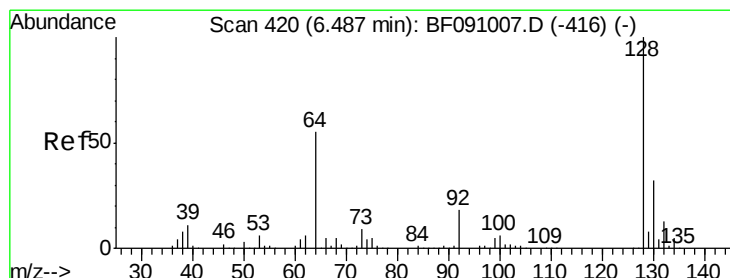
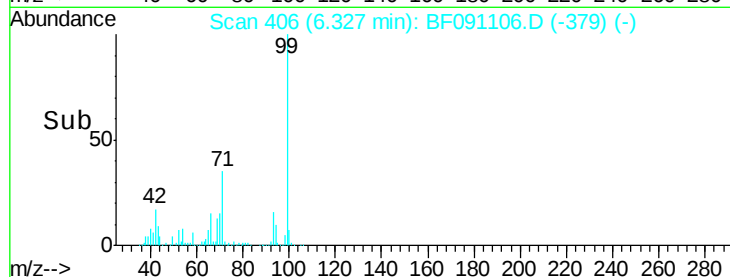
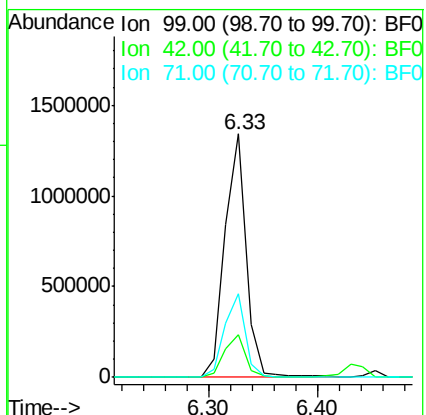
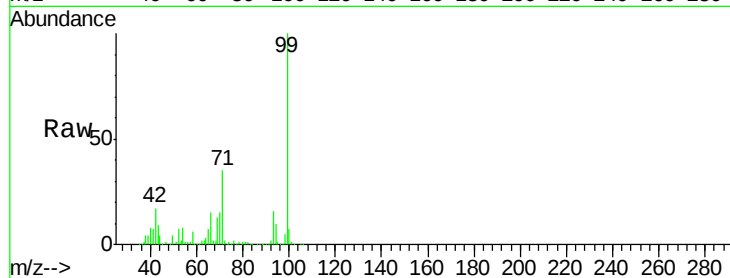
Tgt Ion: 99 Resp: 1827216

Ion Ratio Lower Upper

99 100

42 17.4 13.9 20.9

71 34.5 27.8 41.8



#8

2-Chlorophenol

Concen: 39.29 ng

RT: 6.45 min Scan# 417

Delta R.T. 0.00 min

Lab File: BF091106.D

Acq: 9 Nov 2016 3:16

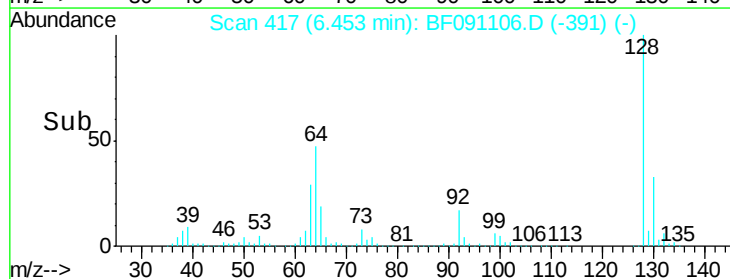
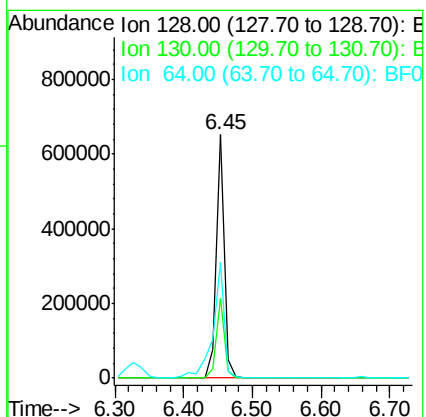
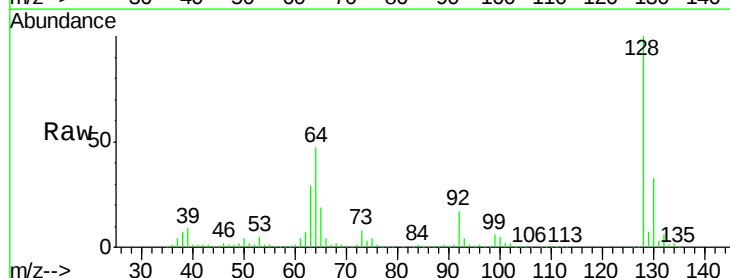
Tgt Ion: 128 Resp: 544822

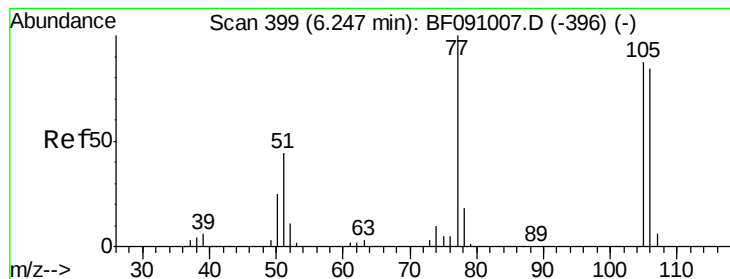
Ion Ratio Lower Upper

128 100

130 32.8 12.0 52.0

64 47.5 37.2 77.2





#9

Benzaldehyde

Concen: 6.61 ng

RT: 6.21 min Scan# 396

Delta R.T. 0.01 min

Lab File: BF091106.D

Acq: 9 Nov 2016 3:16

Instrument :

BNA\_F

ClientSampleId :

WEST-SIDEWALLMS

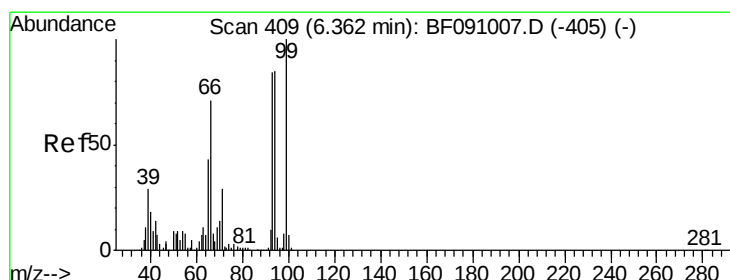
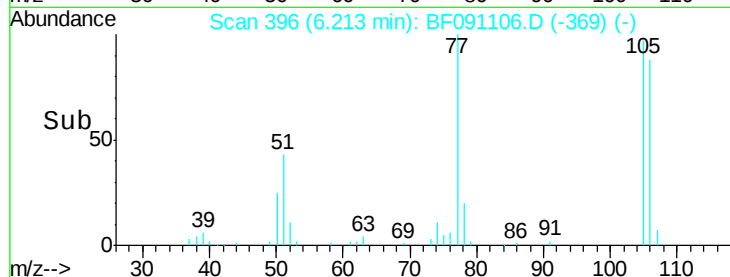
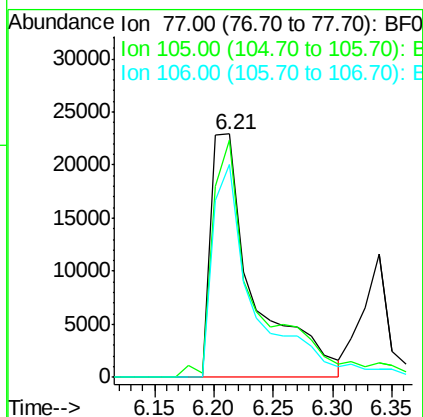
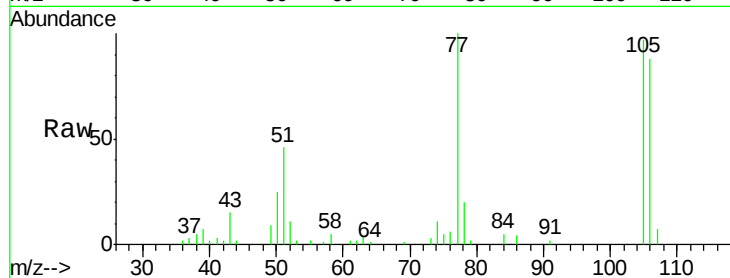
Tgt Ion: 77 Resp: 57926

Ion Ratio Lower Upper

77 100

105 97.2 66.8 106.8

106 87.6 64.0 104.0



#10

Phenol

Concen: 43.00 ng

RT: 6.34 min Scan# 407

Delta R.T. 0.01 min

Lab File: BF091106.D

Acq: 9 Nov 2016 3:16

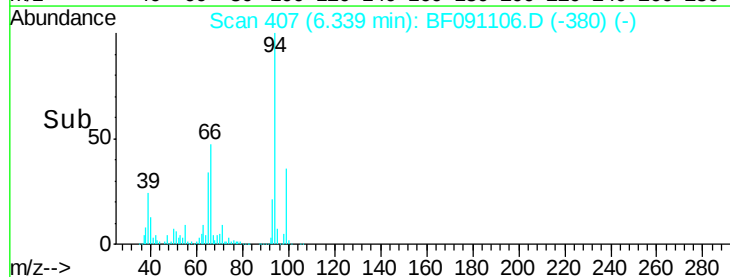
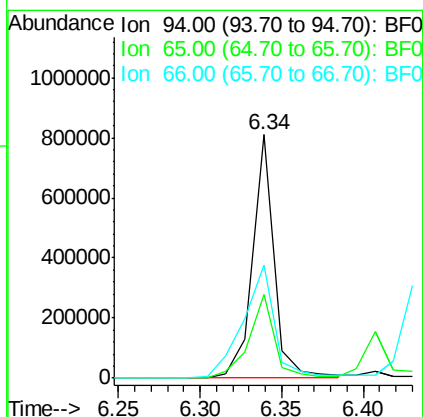
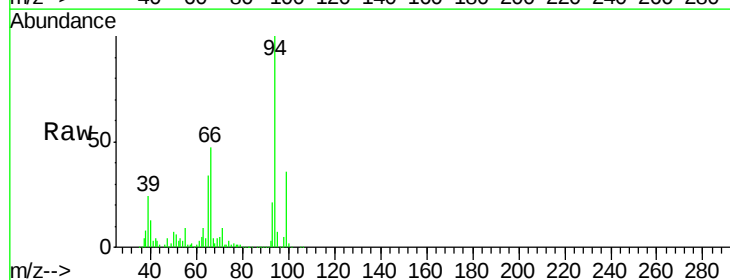
Tgt Ion: 94 Resp: 750955

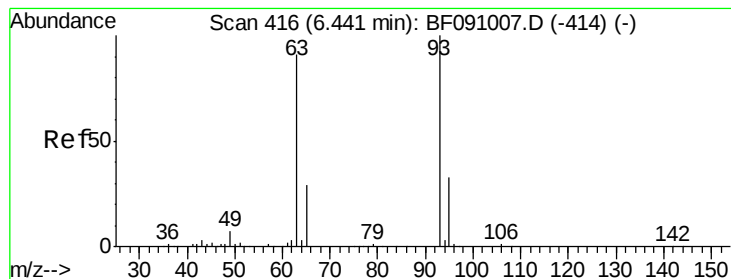
Ion Ratio Lower Upper

94 100

65 34.5 30.4 70.4

66 46.5 62.9 102.9#





#11

bis(2-Chloroethyl)ether

Concen: 41.55 ng

RT: 6.41 min Scan# 413

Delta R.T. 0.00 min

Lab File: BF091106.D

Acq: 9 Nov 2016 3:16

Instrument :

BNA\_F

ClientSampleId :

WEST-SIDEWALLMS

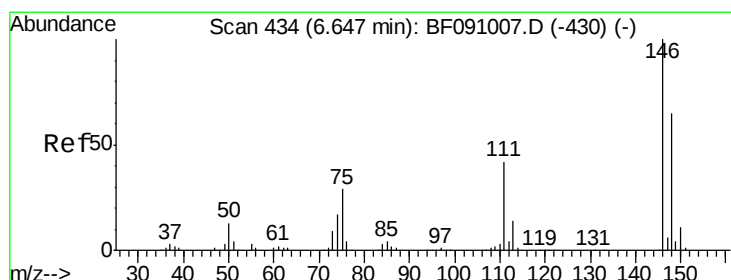
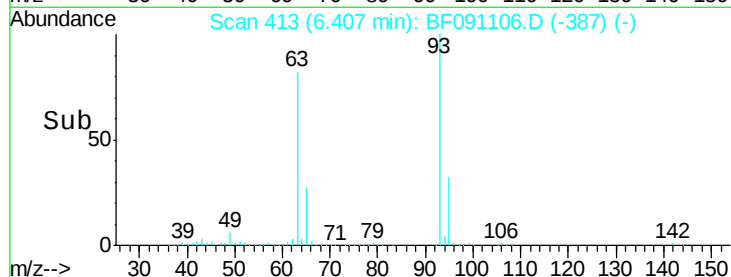
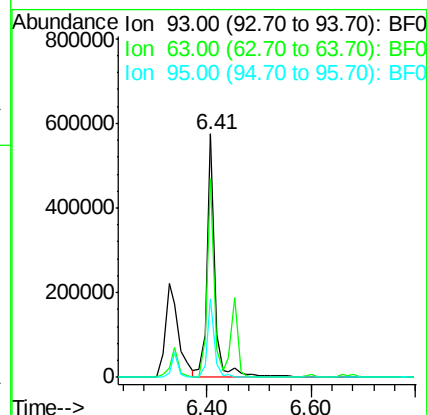
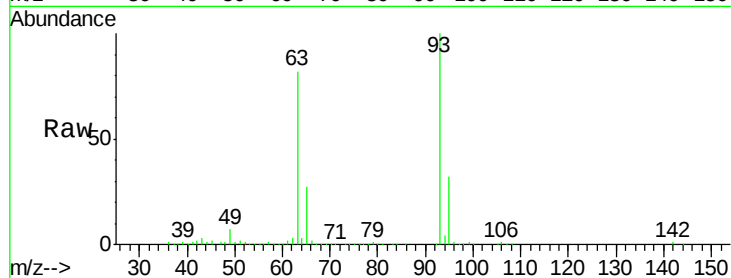
Tgt Ion: 93 Resp: 611402

Ion Ratio Lower Upper

93 100

63 81.7 68.9 108.9

95 32.4 12.3 52.3



#12

1,3-Dichlorobenzene

Concen: 38.20 ng

RT: 6.60 min Scan# 430

Delta R.T. 0.00 min

Lab File: BF091106.D

Acq: 9 Nov 2016 3:16

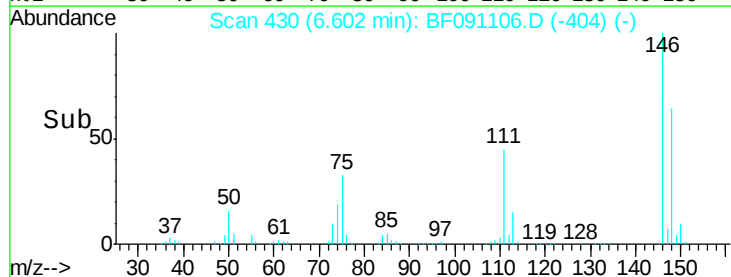
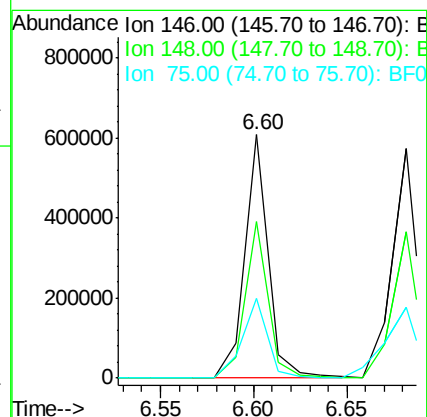
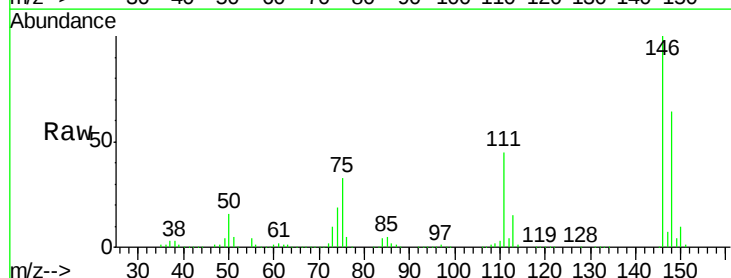
Tgt Ion: 146 Resp: 535679

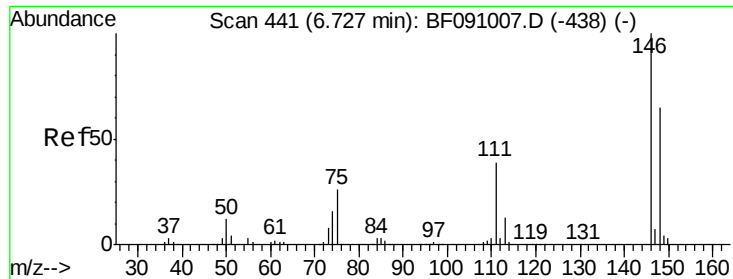
Ion Ratio Lower Upper

146 100

148 64.2 52.0 78.0

75 32.7 23.0 34.6

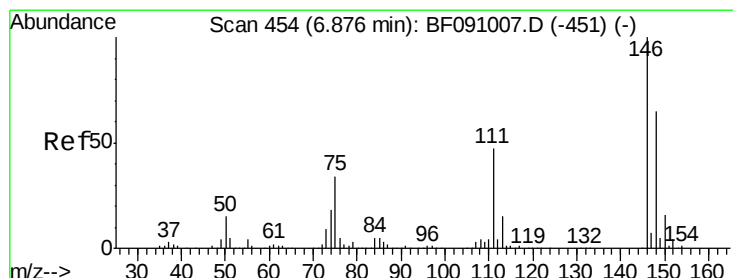
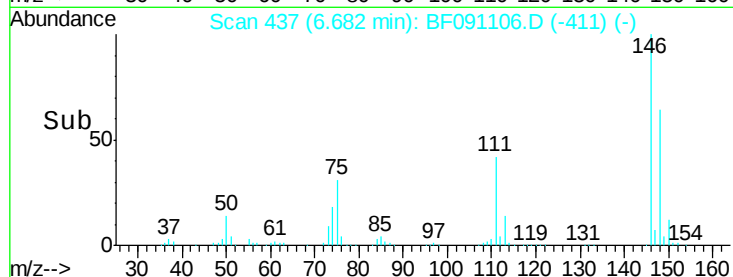
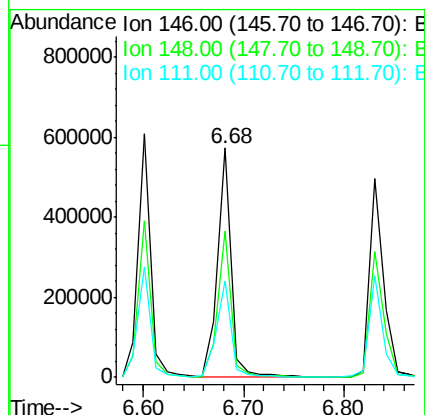
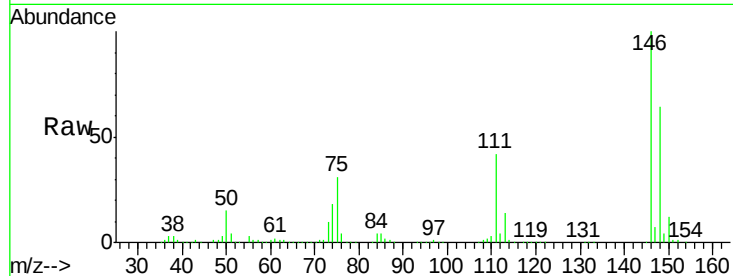




#13  
 1,4-Dichlorobenzene  
 Concen: 36.40 ng  
 RT: 6.68 min Scan# 437  
 Delta R.T. 0.00 min  
 Lab File: BF091106.D  
 Acq: 9 Nov 2016 3:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WEST-SIDEWALLMS

Tgt Ion:146 Resp: 547723  
 Ion Ratio Lower Upper  
 146 100  
 148 63.7 52.1 78.1  
 111 42.1 31.6 47.4



#14  
 1,2-Dichlorobenzene  
 Concen: 35.68 ng  
 RT: 6.83 min Scan# 450  
 Delta R.T. 0.00 min  
 Lab File: BF091106.D  
 Acq: 9 Nov 2016 3:16

Tgt Ion:146 Resp: 492744  
 Ion Ratio Lower Upper  
 146 100  
 148 63.2 51.6 77.4  
 111 51.4 37.3 55.9

