

Data File : BM018509.D  
Acq On : 10 Jan 2019 15:28  
Operator : JU/SJ  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDCCC040

Quant Time: Jan 11 03:22:33 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM010919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 10 05:57:41 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 446562   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.56 | 136  | 1942256  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.41 | 164  | 1203654  | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.16 | 188  | 2896413  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.36 | 240  | 3234641  | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 23.64 | 264  | 3397857  | 20.00 | ng    | 0.01     |

|                             |       |     |          |       |    |      |
|-----------------------------|-------|-----|----------|-------|----|------|
| System Monitoring Compounds |       |     |          |       |    |      |
| 5) 2-Fluorophenol           | 5.35  | 112 | 1808607  | 74.78 | ng | 0.00 |
| 7) Phenol-d6                | 6.93  | 99  | 2487945  | 81.00 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 8.93  | 82  | 2546808  | 76.02 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 15.90 | 330 | 1352013  | 88.22 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 13.03 | 172 | 6786866  | 73.58 | ng | 0.00 |
| 79) Terphenyl-d14           | 19.79 | 244 | 11299733 | 73.64 | ng | 0.00 |

|                                |       |     |         |        |    |      |
|--------------------------------|-------|-----|---------|--------|----|------|
| Target Compounds               |       |     |         | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.29  | 88  | 321176  | 32.584 | ng | 95   |
| 3) Pyridine                    | 3.68  | 79  | 918229  | 37.365 | ng | 96   |
| 4) n-Nitrosodimethylamine      | 3.60  | 42  | 379411  | 37.336 | ng | # 92 |
| 6) Aniline                     | 7.10  | 93  | 1452040 | 42.377 | ng | 100  |
| 8) 2-Chlorophenol              | 7.33  | 128 | 1127015 | 39.901 | ng | 95   |
| 9) Benzaldehyde                | 6.92  | 77  | 669373  | 37.087 | ng | 98   |
| 10) Phenol                     | 6.96  | 94  | 1238110 | 39.666 | ng | 98   |
| 11) bis(2-Chloroethyl)ether    | 7.19  | 93  | 973804  | 39.705 | ng | 95   |
| 12) 1,3-Dichlorobenzene        | 7.65  | 146 | 1266802 | 37.660 | ng | 98   |
| 13) 1,4-Dichlorobenzene        | 7.80  | 146 | 1299433 | 38.114 | ng | 99   |
| 14) 1,2-Dichlorobenzene        | 8.11  | 146 | 1244911 | 38.509 | ng | 99   |
| 15) Benzyl Alcohol             | 8.01  | 79  | 989377  | 44.595 | ng | 97   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.29  | 45  | 1252369 | 39.957 | ng | 95   |
| 17) 2-Methylphenol             | 8.20  | 107 | 906892  | 42.803 | ng | 98   |
| 18) Hexachloroethane           | 8.83  | 117 | 467627  | 38.469 | ng | 96   |
| 19) n-Nitroso-di-n-propylamine | 8.57  | 70  | 868151  | 43.430 | ng | 93   |
| 20) 3+4-Methylphenols          | 8.53  | 107 | 1280050 | 43.764 | ng | 99   |
| 22) Acetophenone               | 8.59  | 105 | 1820844 | 37.898 | ng | 98   |
| 24) Nitrobenzene               | 8.97  | 77  | 1237469 | 37.538 | ng | 97   |
| 25) Isophorone                 | 9.49  | 82  | 2128681 | 41.957 | ng | 98   |
| 26) 2-Nitrophenol              | 9.67  | 139 | 706529  | 44.324 | ng | 95   |
| 27) 2,4-Dimethylphenol         | 9.73  | 122 | 958483  | 40.117 | ng | 99   |
| 28) bis(2-Chloroethoxy)methane | 9.97  | 93  | 1379120 | 39.349 | ng | 98   |
| 29) 2,4-Dichlorophenol         | 10.20 | 162 | 1173563 | 41.250 | ng | 100  |
| 30) 1,2,4-Trichlorobenzene     | 10.42 | 180 | 1311318 | 37.135 | ng | 98   |
| 31) Naphthalene                | 10.60 | 128 | 3524590 | 37.680 | ng | 100  |
| 32) Benzoic acid               | 9.88  | 122 | 640189  | 40.908 | ng | 98   |
| 33) 4-Chloroaniline            | 10.72 | 127 | 1595033 | 43.298 | ng | 98   |
| 34) Hexachlorobutadiene        | 10.87 | 225 | 830456  | 37.225 | ng | 99   |
| 35) Caprolactam                | 11.53 | 113 | 457479  | 47.296 | ng | # 86 |
| 36) 4-Chloro-3-methylphenol    | 11.85 | 107 | 1312571 | 43.976 | ng | 99   |
| 37) 2-Methylnaphthalene        | 12.22 | 142 | 2620398 | 39.650 | ng | 99   |
| 38) 1-Methylnaphthalene        | 12.44 | 142 | 2545466 | 39.806 | ng | 98   |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.59 | 216 | 1533781 | 36.439 | ng | 98   |

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|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.56 | 237  | 759824   | 32.892 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol      | 12.83 | 196  | 1047570  | 40.984 | ng    | 99       |
| 44) 2,4,5-Trichlorophenol      | 12.91 | 196  | 1121442  | 41.717 | ng    | 99       |
| 46) 1,1'-Biphenyl              | 13.24 | 154  | 3861503  | 36.742 | ng    | 98       |
| 47) 2-Chloronaphthalene        | 13.28 | 162  | 2981792  | 36.587 | ng    | 99       |
| 48) 2-Nitroaniline             | 13.50 | 65   | 852617   | 42.523 | ng    | 93       |
| 49) Acenaphthylene             | 14.13 | 152  | 4563796  | 38.426 | ng    | 100      |
| 50) Dimethylphthalate          | 13.87 | 163  | 3923608  | 39.691 | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 14.00 | 165  | 877512   | 41.907 | ng    | 93       |
| 52) Acenaphthene               | 14.47 | 154  | 2751621  | 37.865 | ng    | 99       |
| 53) 3-Nitroaniline             | 14.33 | 138  | 928108   | 43.965 | ng    | 98       |
| 54) 2,4-Dinitrophenol          | 14.53 | 184  | 433633   | 42.012 | ng    | 90       |
| 55) Dibenzofuran               | 14.81 | 168  | 4558605  | 37.966 | ng    | 100      |
| 56) 4-Nitrophenol              | 14.65 | 139  | 784694   | 43.027 | ng    | 94       |
| 57) 2,4-Dinitrotoluene         | 14.79 | 165  | 1252876  | 42.289 | ng    | 98       |
| 58) Fluorene                   | 15.46 | 166  | 3517984  | 39.331 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.03 | 232  | 1006261  | 42.231 | ng    | 97       |
| 60) Diethylphthalate           | 15.24 | 149  | 4079302  | 40.877 | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.46 | 204  | 1989604  | 38.594 | ng    | 99       |
| 62) 4-Nitroaniline             | 15.50 | 138  | 1017156  | 44.174 | ng    | 96       |
| 63) Azobenzene                 | 15.75 | 77   | 3256132  | 40.020 | ng    | 97       |
| 65) 4,6-Dinitro-2-methylphenol | 15.54 | 198  | 744064   | 41.168 | ng    | 87       |
| 66) n-Nitrosodiphenylamine     | 15.67 | 169  | 3421062  | 38.077 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether  | 16.35 | 248  | 1248439  | 38.517 | ng    | 100      |
| 68) Hexachlorobenzene          | 16.46 | 284  | 1354775  | 37.337 | ng    | 99       |
| 69) Atrazine                   | 16.63 | 200  | 1358371  | 41.821 | ng    | 98       |
| 70) Pentachlorophenol          | 16.80 | 266  | 954691   | 40.174 | ng    | 97       |
| 71) Phenanthrene               | 17.20 | 178  | 5807022  | 37.693 | ng    | 100      |
| 72) Anthracene                 | 17.29 | 178  | 5761714  | 38.892 | ng    | 100      |
| 73) Carbazole                  | 17.57 | 167  | 6007416  | 39.470 | ng    | 100      |
| 74) Di-n-butylphthalate        | 18.13 | 149  | 7186018  | 43.103 | ng    | 99       |
| 75) Fluoranthene               | 19.22 | 202  | 7024774  | 39.550 | ng    | 98       |
| 77) Benzidine                  | 19.42 | 184  | 4156993  | 52.048 | ng    | 99       |
| 78) Pyrene                     | 19.59 | 202  | 7309876  | 38.125 | ng    | 99       |
| 80) Butylbenzylphthalate       | 20.49 | 149  | 3499846  | 42.778 | ng    | 95       |
| 81) Benzo(a)anthracene         | 21.34 | 228  | 7339332  | 38.515 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine     | 21.28 | 252  | 3040522  | 42.195 | ng    | 100      |
| 83) Chrysene                   | 21.40 | 228  | 7031378  | 38.211 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phthalate | 21.26 | 149  | 5053937  | 42.779 | ng    | 99       |
| 85) Di-n-octyl phthalate       | 22.16 | 149  | 8653286  | 43.549 | ng    | # 94     |
| 86) Indeno(1,2,3-cd)pyrene     | 25.97 | 276  | 8034749  | 37.867 | ng    | 96       |
| 88) Benzo(b)fluoranthene       | 22.96 | 252  | 7431996  | 38.527 | ng    | 98       |
| 89) Benzo(k)fluoranthene       | 23.00 | 252  | 7103886  | 36.542 | ng    | 98       |
| 90) Benzo(a)pyrene             | 23.55 | 252  | 6998199  | 37.894 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene     | 25.99 | 278  | 6788677  | 36.279 | ng    | 99       |
| 92) Benzo(g,h,i)perylene       | 26.69 | 276  | 6505243  | 35.724 | ng    | 97       |

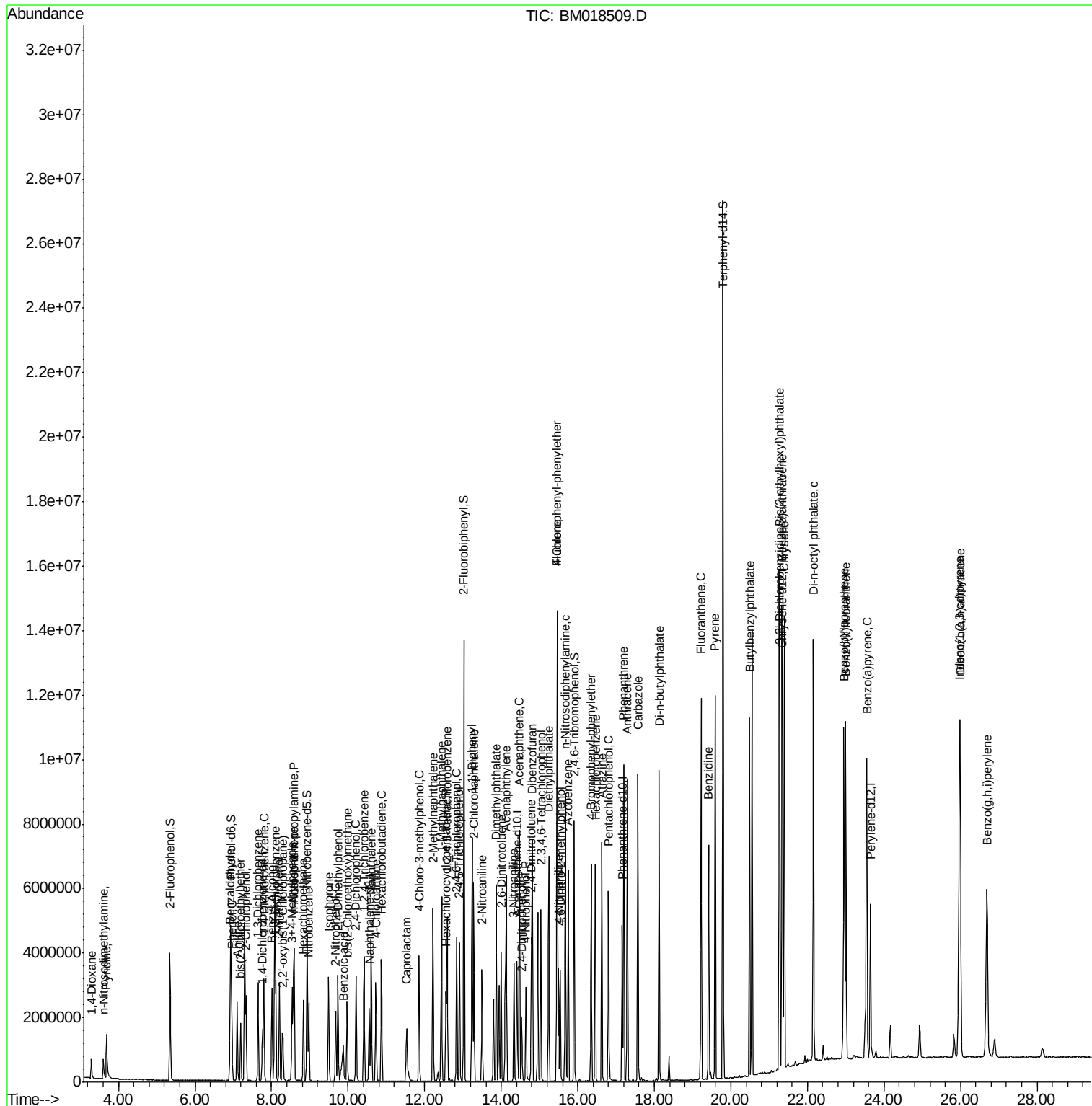
(#) = qualifier out of range (m) = manual integration (+) = signals summed

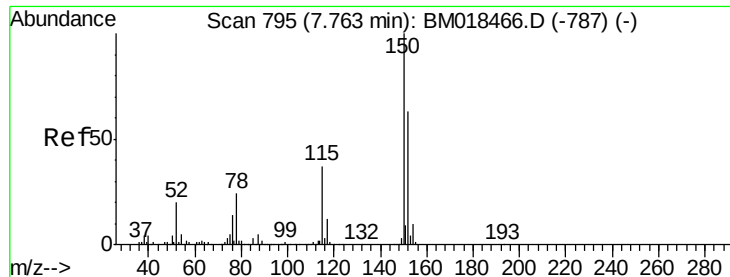
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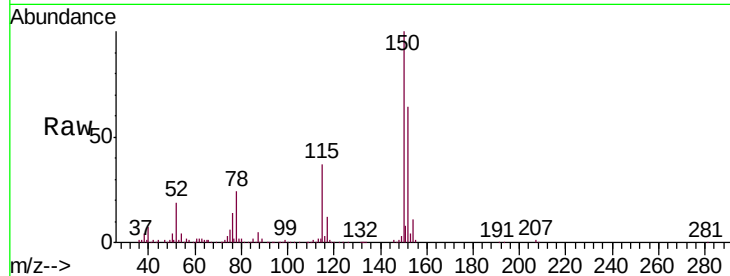


#1

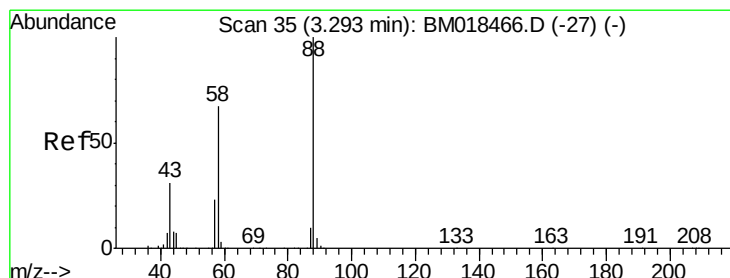
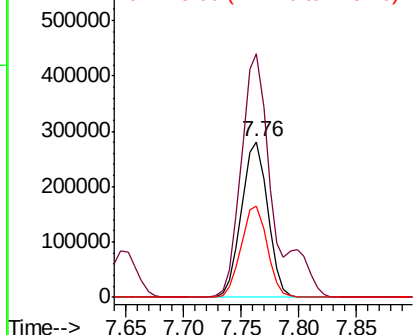
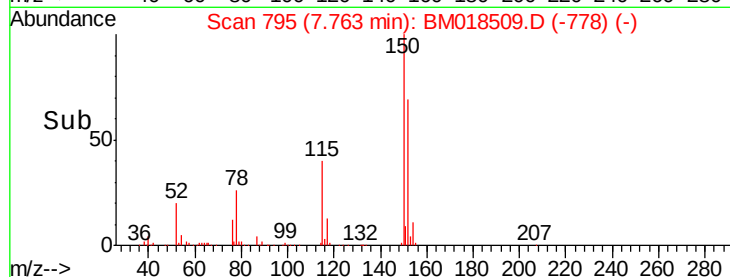
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.76 min Scan# 795  
Delta R.T. -0.00 min  
Lab File: BM018509.D  
Acq: 10 Jan 2019 15:28

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BNA\_M  
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SSTDCCC040

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.7 | 126.9 | 190.3 |
| 115     | 58.5  | 45.5  | 68.3  |



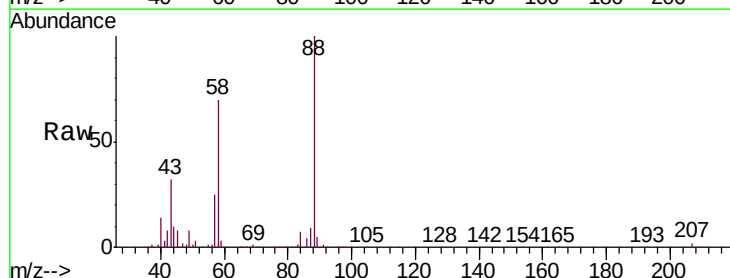
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



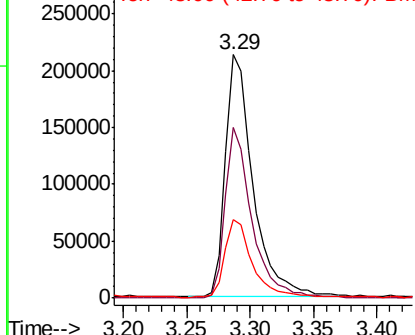
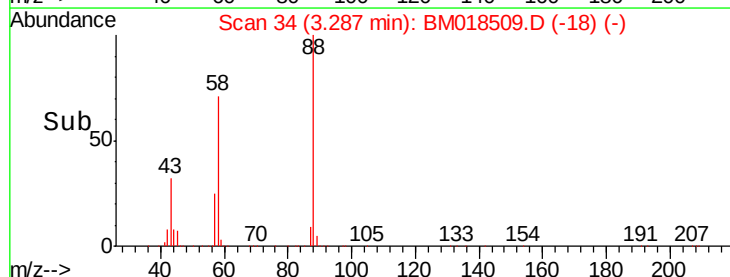
#2

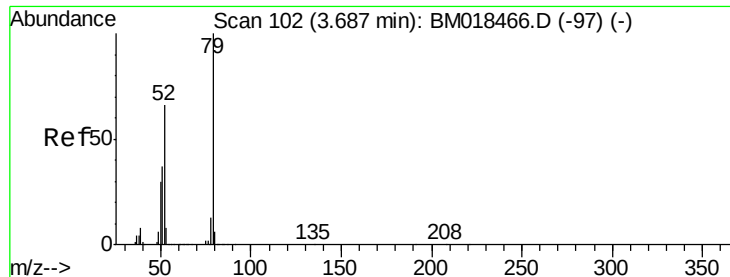
1,4-Dioxane  
Concen: 32.584 ng  
RT: 3.29 min Scan# 34  
Delta R.T. -0.01 min  
Lab File: BM018509.D  
Acq: 10 Jan 2019 15:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 68.2  | 58.4  | 87.6  |
| 43      | 31.7  | 26.2  | 39.4  |



Abundance Ion 88.00 (87.70 to 88.70): BM0  
Ion 58.00 (57.70 to 58.70): BM0  
Ion 43.00 (42.70 to 43.70): BM0





#3

Pyridine

Concen: 37.365 ng

RT: 3.68 min Scan# 101

Delta R.T. -0.03 min

Lab File: BM018509.D

Acq: 10 Jan 2019 15:28

Instrument :

BNA\_M

ClientSampleId :

SSTDCCC040

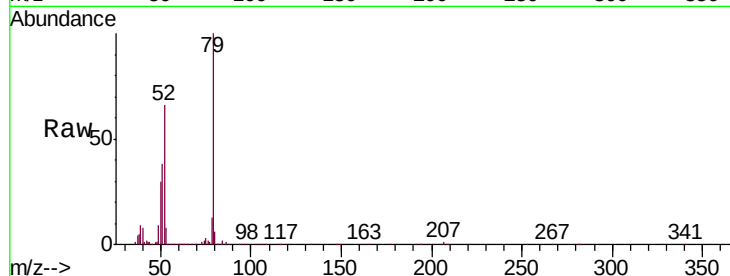
Tgt Ion: 79 Resp: 918229

Ion Ratio Lower Upper

79 100

52 65.8 56.4 84.6

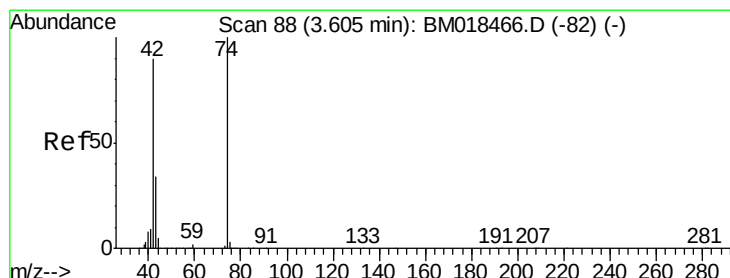
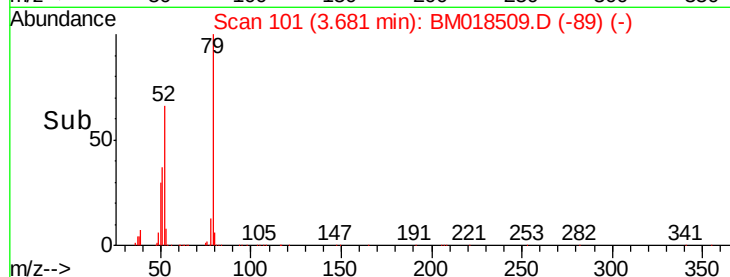
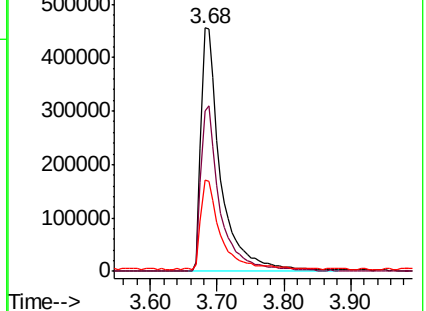
51 37.7 31.0 46.4



Abundance Ion 79.00 (78.70 to 79.70): BM018466.D (-97) (-)

Ion 52.00 (51.70 to 52.70): BM018466.D (-97) (-)

Ion 51.00 (50.70 to 51.70): BM018466.D (-97) (-)



#4

n-Nitrosodimethylamine

Concen: 37.336 ng

RT: 3.60 min Scan# 88

Delta R.T. -0.02 min

Lab File: BM018509.D

Acq: 10 Jan 2019 15:28

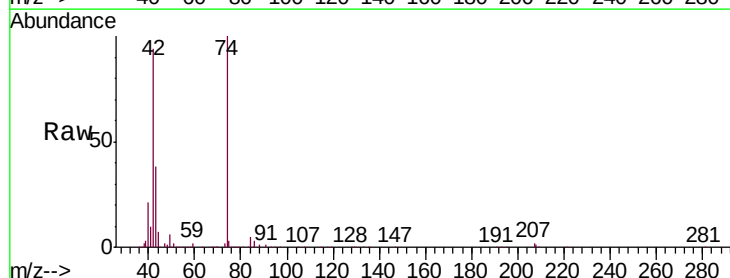
Tgt Ion: 42 Resp: 379411

Ion Ratio Lower Upper

42 100

74 106.1 88.6 132.8

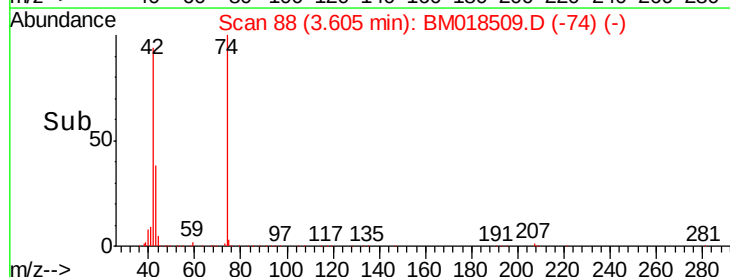
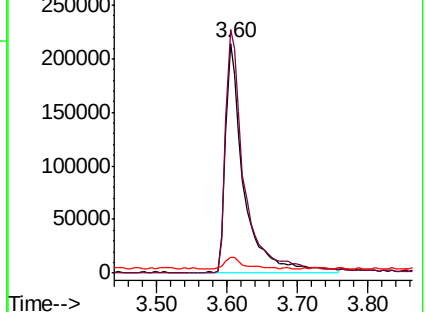
44 7.2 16.9 25.3#

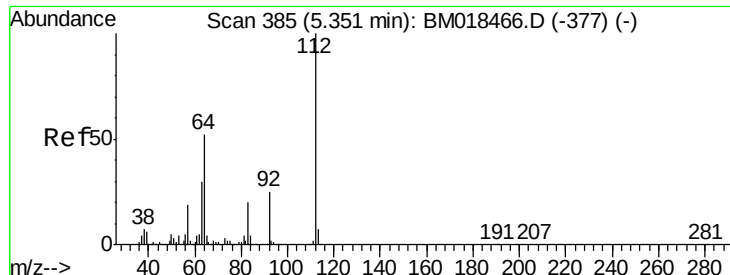


Abundance Ion 42.00 (41.70 to 42.70): BM018466.D (-82) (-)

Ion 74.00 (73.70 to 74.70): BM018466.D (-82) (-)

Ion 44.00 (43.70 to 44.70): BM018466.D (-82) (-)





#5

2-Fluorophenol

Concen: 74.784 ng

RT: 5.35 min Scan# 384

Delta R.T. -0.01 min

Lab File: BM018509.D

Acq: 10 Jan 2019 15:28

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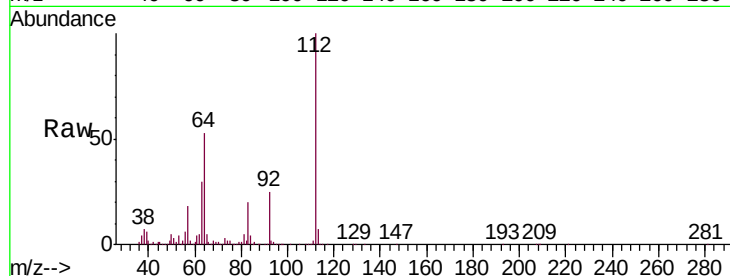
Tgt Ion: 112 Resp: 1808607

Ion Ratio Lower Upper

112 100

64 53.2 46.5 69.7

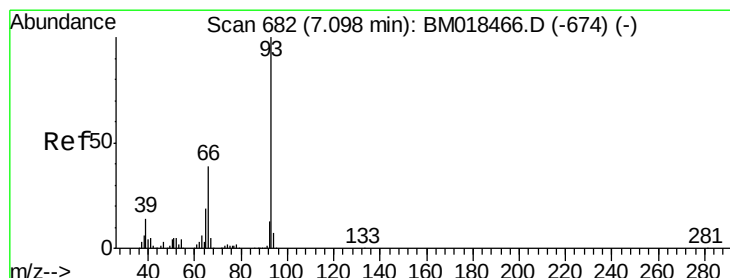
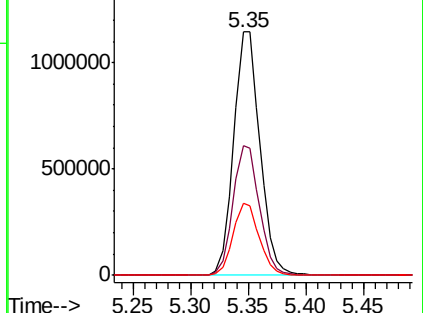
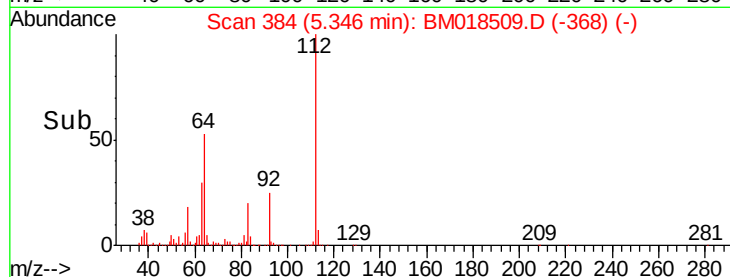
63 29.8 25.2 37.8



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): B

Ion 63.00 (62.70 to 63.70): B



#6

Aniline

Concen: 42.377 ng

RT: 7.10 min Scan# 682

Delta R.T. -0.01 min

Lab File: BM018509.D

Acq: 10 Jan 2019 15:28

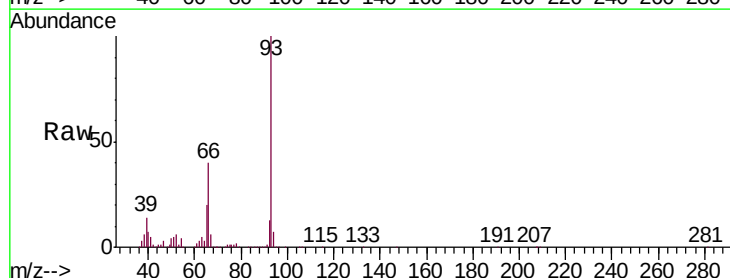
Tgt Ion: 93 Resp: 1452040

Ion Ratio Lower Upper

93 100

66 39.7 31.7 47.5

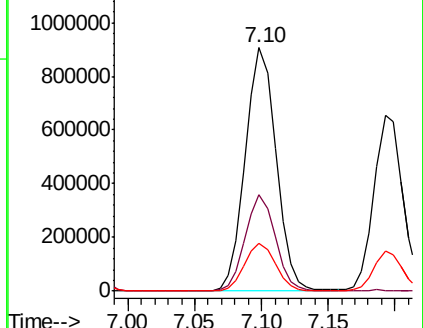
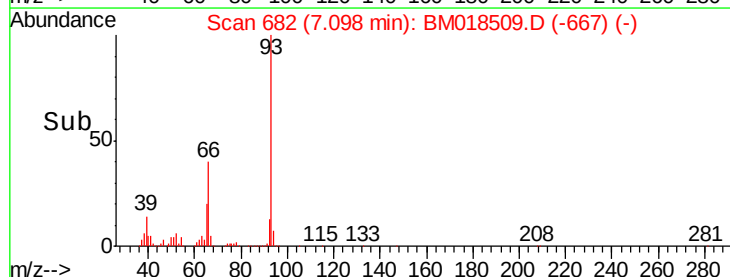
65 19.6 15.9 23.9

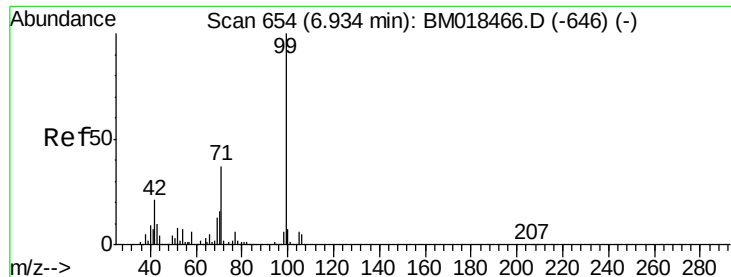


Abundance Ion 93.00 (92.70 to 93.70): B

Ion 66.00 (65.70 to 66.70): B

Ion 65.00 (64.70 to 65.70): B





#7

Phenol-d6

Concen: 80.996 ng

RT: 6.93 min Scan# 654

Delta R.T. -0.00 min

Lab File: BM018509.D

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ClientSampleId :

SSTDCCC040

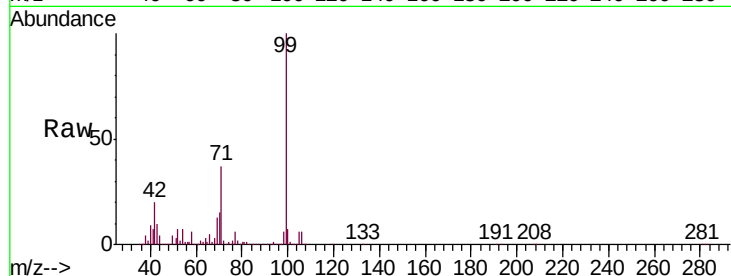
Tgt Ion: 99 Resp: 2487945

Ion Ratio Lower Upper

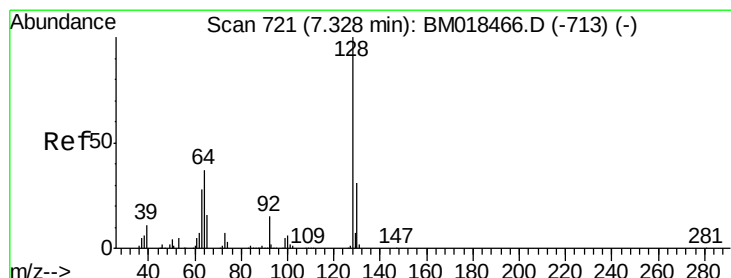
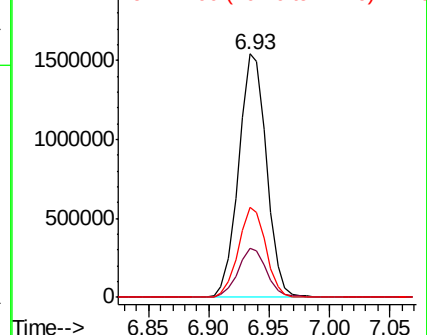
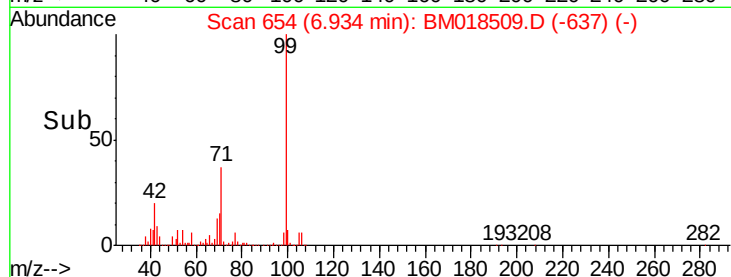
99 100

42 20.2 17.3 25.9

71 36.9 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BM018509.D (-637) (-)



#8

2-Chlorophenol

Concen: 39.901 ng

RT: 7.33 min Scan# 721

Delta R.T. -0.00 min

Lab File: BM018509.D

Acq: 10 Jan 2019 15:28

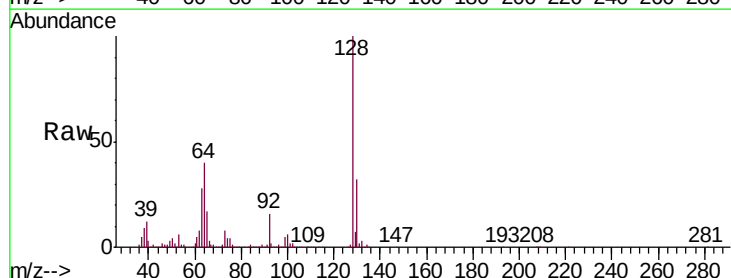
Tgt Ion: 128 Resp: 1127015

Ion Ratio Lower Upper

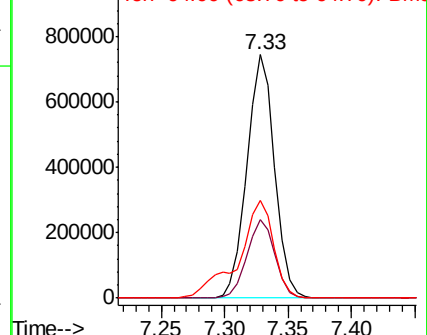
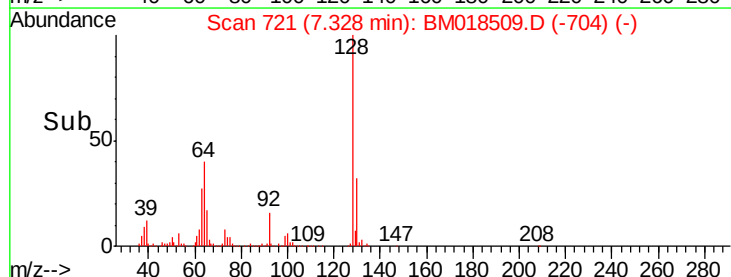
128 100

130 32.3 13.6 53.6

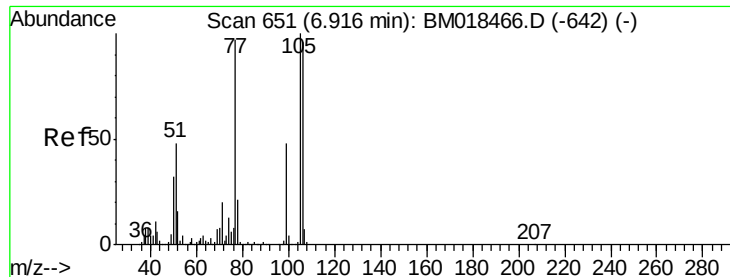
64 40.2 24.8 64.8



Abundance Ion 128.00 (127.70 to 128.70): BM018509.D (-704) (-)







#9

Benzaldehyde

Concen: 37.087 ng

RT: 6.92 min Scan# 651

Delta R.T. 0.00 min

Lab File: BM018509.D

Acq: 10 Jan 2019 15:28

Instrument :

BNA\_M

ClientSampleId :

SSTDCCC040

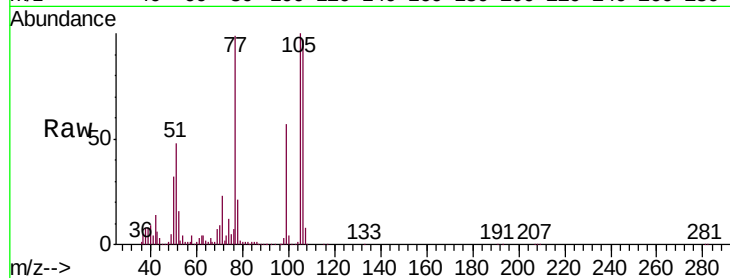
Tgt Ion: 77 Resp: 669373

Ion Ratio Lower Upper

77 100

105 101.1 79.7 119.7

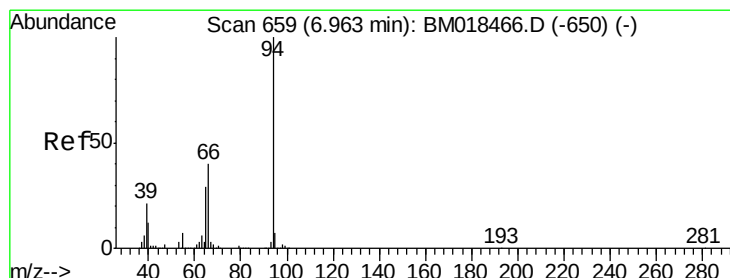
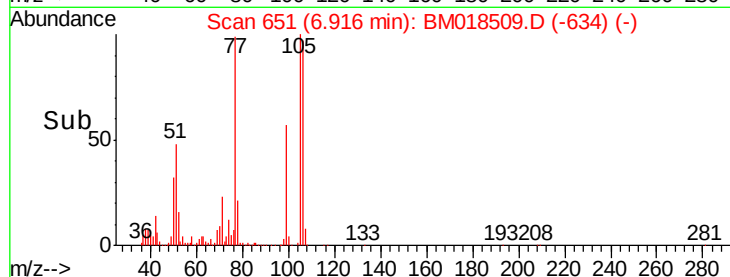
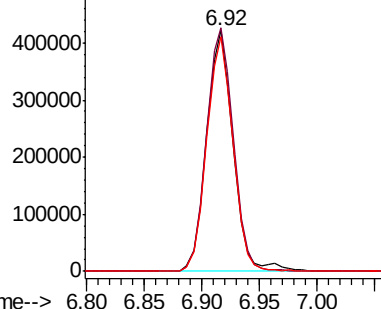
106 97.7 75.2 115.2



Abundance Ion 77.00 (76.70 to 77.70): BM018466.D (-642) (-)

Ion 105.00 (104.70 to 105.70): BM018466.D (-642) (-)

Ion 106.00 (105.70 to 106.70): BM018466.D (-642) (-)



#10

Phenol

Concen: 39.666 ng

RT: 6.96 min Scan# 659

Delta R.T. -0.00 min

Lab File: BM018509.D

Acq: 10 Jan 2019 15:28

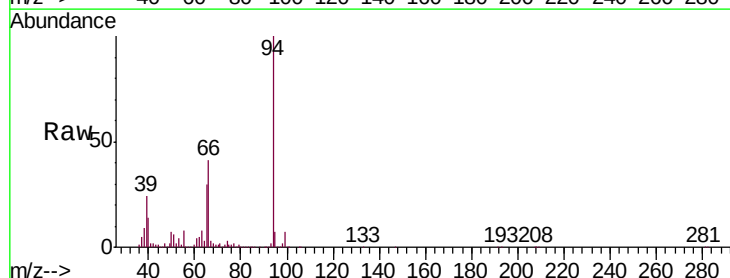
Tgt Ion: 94 Resp: 1238110

Ion Ratio Lower Upper

94 100

65 29.5 9.4 49.4

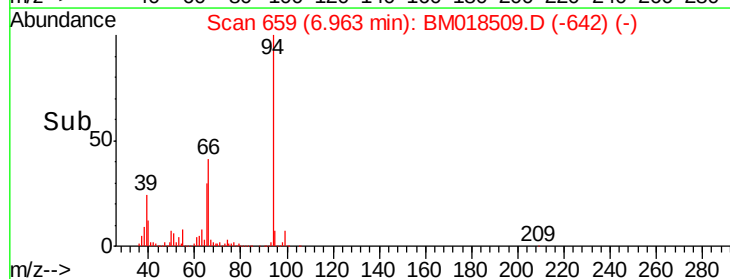
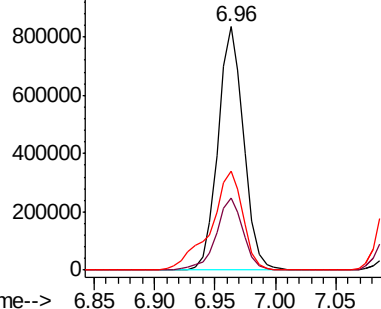
66 40.7 19.1 59.1



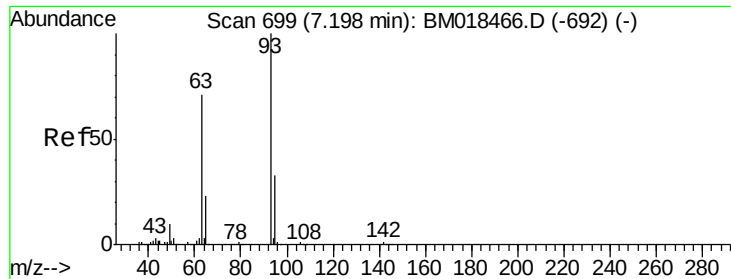
Abundance Ion 94.00 (93.70 to 94.70): BM018466.D (-650) (-)

Ion 65.00 (64.70 to 65.70): BM018466.D (-650) (-)

Ion 66.00 (65.70 to 66.70): BM018466.D (-650) (-)



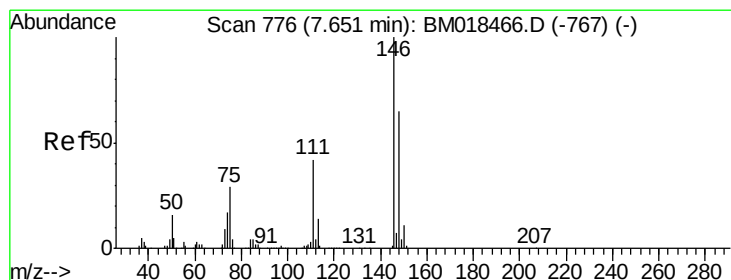
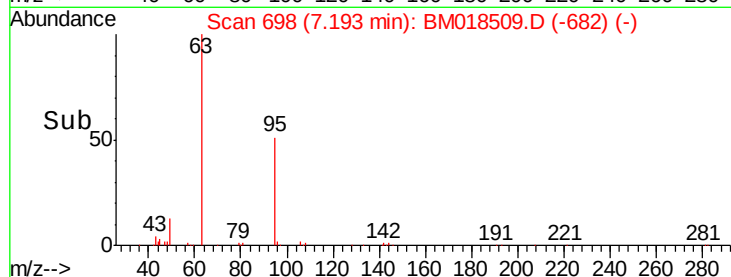
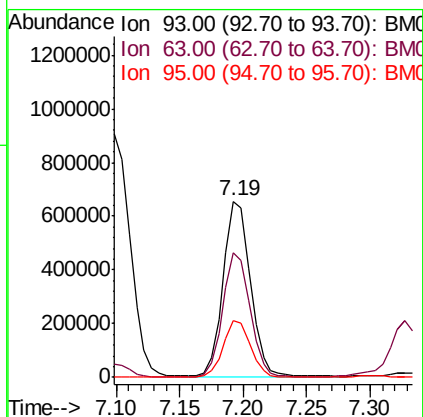
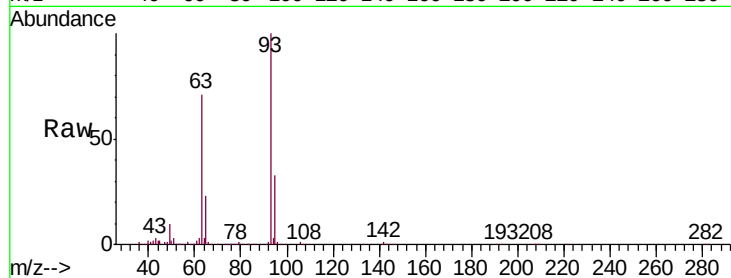




#11  
bis(2-Chloroethyl)ether  
Concen: 39.705 ng  
RT: 7.19 min Scan# 698  
Delta R.T. -0.01 min  
Lab File: BM018509.D  
Acq: 10 Jan 2019 15:28

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDCCC040

Tgt Ion: 93 Resp: 973804  
Ion Ratio Lower Upper  
93 100  
63 70.5 56.4 96.4  
95 32.6 12.7 52.7



#12  
1,3-Dichlorobenzene  
Concen: 37.660 ng  
RT: 7.65 min Scan# 775  
Delta R.T. -0.00 min  
Lab File: BM018509.D  
Acq: 10 Jan 2019 15:28

Tgt Ion: 146 Resp: 1266802  
Ion Ratio Lower Upper  
146 100  
148 63.9 50.5 75.7  
75 30.3 23.0 34.6

