

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM122718\  
 Data File : BM018420.D  
 Acq On : 28 Dec 2018 06:03  
 Operator : JU/SJ  
 Sample : J6574-01MSD  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

Quant Time: Dec 28 07:58:49 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM122718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 27 14:18:47 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 509288   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.57 | 136  | 2328057  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.43 | 164  | 1395444  | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.18 | 188  | 3185701  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.37 | 240  | 3348267  | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 23.66 | 264  | 3221881  | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.36  | 112 | 720434  | 26.67 | ng | 0.00 |
| 7) Phenol-d6             | 6.95  | 99  | 721598  | 19.24 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 8.95  | 82  | 1728912 | 42.62 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.92 | 330 | 1161311 | 65.50 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 13.05 | 172 | 4924097 | 47.79 | ng | 0.00 |
| 79) Terphenyl-d14        | 19.81 | 244 | 9770702 | 62.18 | ng | 0.00 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 3) Pyridine                    | 3.69  | 79  | 307517  | 10.134 | ng | 97     |
| 4) n-Nitrosodimethylamine      | 3.62  | 42  | 171686  | 13.876 | ng | # 93   |
| 8) 2-Chlorophenol              | 7.35  | 128 | 652574  | 20.033 | ng | 96     |
| 10) Phenol                     | 6.97  | 94  | 371197  | 9.619  | ng | 98     |
| 11) bis(2-Chloroethyl)ether    | 7.22  | 93  | 547079  | 18.188 | ng | 95     |
| 12) 1,3-Dichlorobenzene        | 7.67  | 146 | 702429  | 18.357 | ng | 100    |
| 13) 1,4-Dichlorobenzene        | 7.82  | 146 | 730954  | 18.802 | ng | 98     |
| 14) 1,2-Dichlorobenzene        | 8.13  | 146 | 706260  | 18.515 | ng | 98     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.31  | 45  | 587172  | 12.258 | ng | 99     |
| 17) 2-Methylphenol             | 8.22  | 107 | 525707  | 19.231 | ng | 98     |
| 18) Hexachloroethane           | 8.85  | 117 | 252595  | 18.203 | ng | 96     |
| 19) n-Nitroso-di-n-propylamine | 8.59  | 70  | 552399  | 19.332 | ng | 98     |
| 20) 3+4-Methylphenols          | 8.55  | 107 | 766942  | 20.912 | ng | 91     |
| 24) Nitrobenzene               | 8.99  | 77  | 782351  | 19.490 | ng | 98     |
| 25) Isophorone                 | 9.50  | 82  | 1449427 | 20.600 | ng | 98     |
| 26) 2-Nitrophenol              | 9.69  | 139 | 359526  | 25.272 | ng | 99     |
| 27) 2,4-Dimethylphenol         | 9.75  | 122 | 667034  | 22.888 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 9.99  | 93  | 777705  | 17.611 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 10.22 | 162 | 772110  | 23.954 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene     | 10.44 | 180 | 754819  | 19.116 | ng | 98     |
| 31) Naphthalene                | 10.63 | 128 | 2282225 | 20.339 | ng | 99     |
| 32) Benzoic acid               | 9.83  | 122 | 140692  | 13.167 | ng | 98     |
| 34) Hexachlorobutadiene        | 10.90 | 225 | 438684  | 18.297 | ng | 98     |
| 36) 4-Chloro-3-methylphenol    | 11.86 | 107 | 1028184 | 28.141 | ng | 99     |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.60 | 216 | 902912  | 20.668 | ng | 99     |
| 41) Hexachlorocyclopentadiene  | 12.58 | 237 | 434823  | 20.527 | ng | 98     |
| 43) 2,4,6-Trichlorophenol      | 12.85 | 196 | 746895  | 30.099 | ng | 99     |
| 44) 2,4,5-Trichlorophenol      | 12.92 | 196 | 932548  | 34.389 | ng | 98     |
| 47) 2-Chloronaphthalene        | 13.30 | 162 | 1931286 | 21.146 | ng | 99     |
| 49) Acenaphthylene             | 14.15 | 152 | 3344043 | 23.783 | ng | 100    |
| 50) Dimethylphthalate          | 13.89 | 163 | 3108809 | 26.666 | ng | 100    |
| 51) 2,6-Dinitrotoluene         | 14.02 | 165 | 664904  | 27.175 | ng | 93     |
| 52) Acenaphthene               | 14.49 | 154 | 2025232 | 23.867 | ng | 99     |
| 54) 2,4-Dinitrophenol          | 14.54 | 184 | 229555  | 37.851 | ng | 92     |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM122718\  
 Data File : BM018420.D  
 Acq On : 28 Dec 2018 06:03  
 Operator : JU/SJ  
 Sample : J6574-01MSD  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

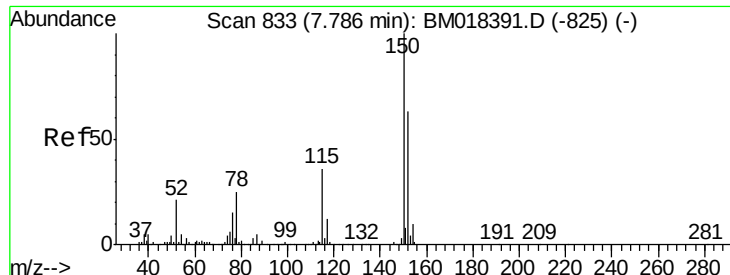
Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

Quant Time: Dec 28 07:58:49 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM122718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 27 14:18:47 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 56) 4-Nitrophenol              | 14.64 | 139  | 271349   | 16.419 | ng    | 96       |
| 57) 2,4-Dinitrotoluene         | 14.80 | 165  | 1040779  | 31.438 | ng    | 98       |
| 58) Fluorene                   | 15.48 | 166  | 2905029  | 26.862 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.05 | 232  | 767500   | 30.647 | ng    | 99       |
| 60) Diethylphthalate           | 15.26 | 149  | 3448444  | 28.280 | ng    | 100      |
| 61) 4-Chlorophenyl-phenylether | 15.47 | 204  | 1419703  | 23.894 | ng    | 98       |
| 63) Azobenzene                 | 15.77 | 77   | 2699979  | 24.294 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylphenol | 15.56 | 198  | 426140   | 35.616 | ng    | 91       |
| 66) n-Nitrosodiphenylamine     | 15.69 | 169  | 2505810  | 25.238 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether  | 16.37 | 248  | 937673   | 27.029 | ng    | 96       |
| 68) Hexachlorobenzene          | 16.47 | 284  | 1090240  | 27.743 | ng    | 99       |
| 70) Pentachlorophenol          | 16.82 | 266  | 663591   | 28.959 | ng    | 99       |
| 71) Phenanthrene               | 17.22 | 178  | 5101543  | 30.252 | ng    | 99       |
| 72) Anthracene                 | 17.32 | 178  | 5231611  | 31.142 | ng    | 100      |
| 73) Carbazole                  | 17.59 | 167  | 5156264  | 29.225 | ng    | 100      |
| 74) Di-n-butylphthalate        | 18.14 | 149  | 6357132  | 31.702 | ng    | 99       |
| 75) Fluoranthene               | 19.24 | 202  | 6192613  | 31.007 | ng    | 99       |
| 77) Benzidine                  | 19.43 | 184  | 2513341  | 26.261 | ng    | 99       |
| 78) Pyrene                     | 19.60 | 202  | 6451926  | 33.197 | ng    | 99       |
| 80) Butylbenzylphthalate       | 20.51 | 149  | 2985400  | 35.826 | ng    | 99       |
| 81) Benzo(a)anthracene         | 21.36 | 228  | 6276034  | 31.913 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine     | 21.30 | 252  | 6996013  | 92.596 | ng    | 99       |
| 83) Chrysene                   | 21.41 | 228  | 6018599  | 31.722 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 21.28 | 149  | 5422529  | 41.388 | ng    | 100      |
| 85) Di-n-octyl phthalate       | 22.18 | 149  | 7519118  | 34.720 | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene     | 26.00 | 276  | 5830390  | 24.826 | ng    | 99       |
| 88) Benzo(b)fluoranthene       | 22.97 | 252  | 6356315  | 35.371 | ng    | 100      |
| 89) Benzo(k)fluoranthene       | 23.02 | 252  | 5824862  | 32.408 | ng    | 99       |
| 90) Benzo(a)pyrene             | 23.57 | 252  | 5565476  | 32.239 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 26.01 | 278  | 5029531  | 27.977 | ng    | 100      |
| 92) Benzo(g,h,i)perylene       | 26.71 | 276  | 4459723  | 25.908 | ng    | 100      |

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



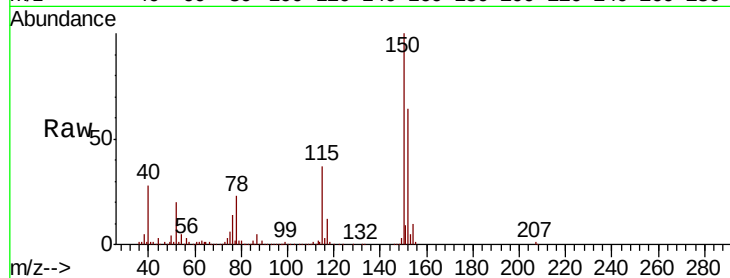


#1

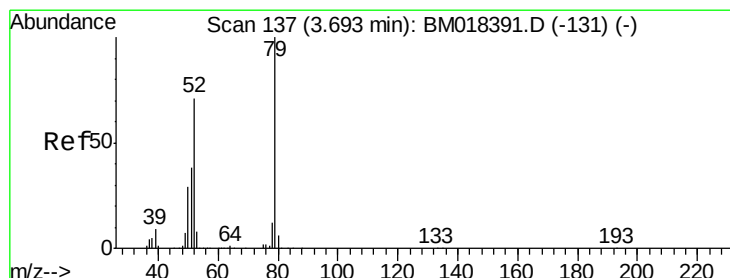
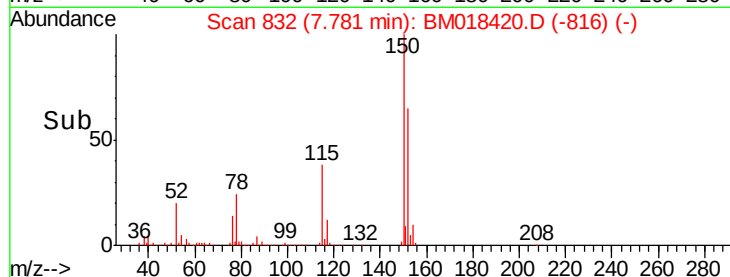
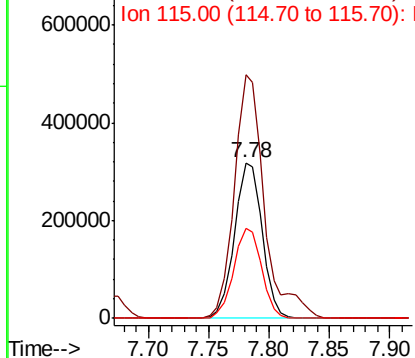
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.78 min Scan# 832  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.6 | 126.9 | 190.3 |
| 115     | 58.2  | 45.5  | 68.3  |



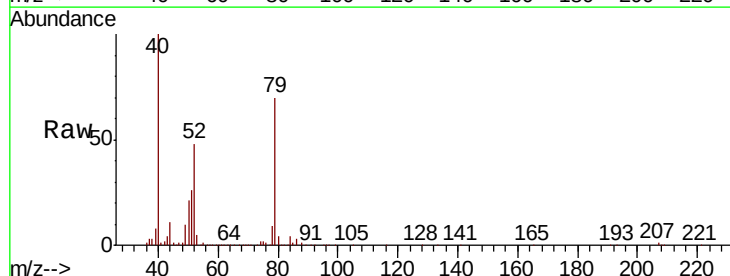
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



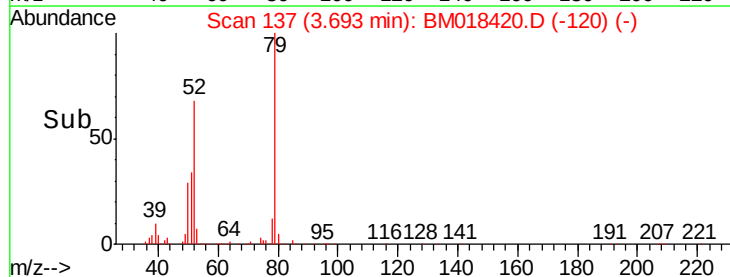
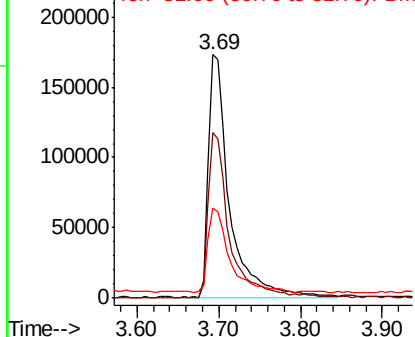
#3

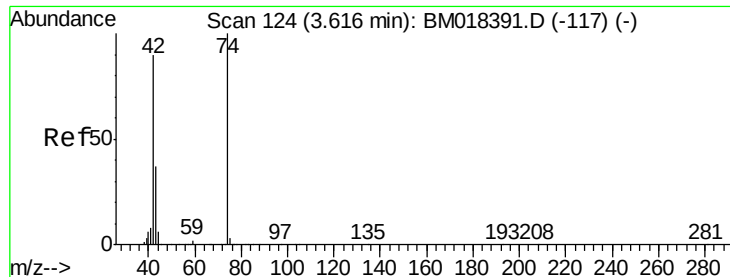
Pyridine  
Concen: 10.134 ng  
RT: 3.69 min Scan# 137  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 52      | 67.9  | 56.4  | 84.6  |
| 51      | 36.9  | 31.0  | 46.4  |



Abundance Ion 79.00 (78.70 to 79.70): BM0  
Ion 52.00 (51.70 to 52.70): BM0  
Ion 51.00 (50.70 to 51.70): BM0



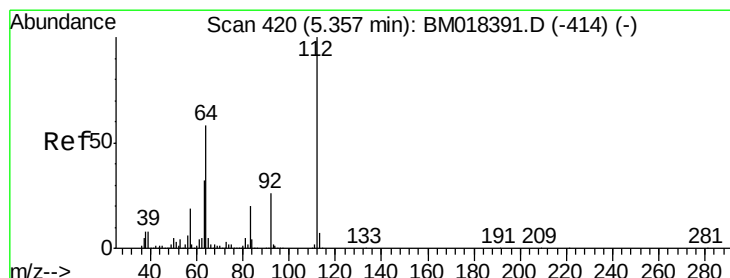
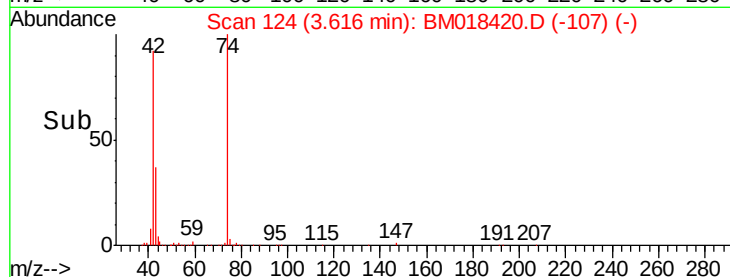
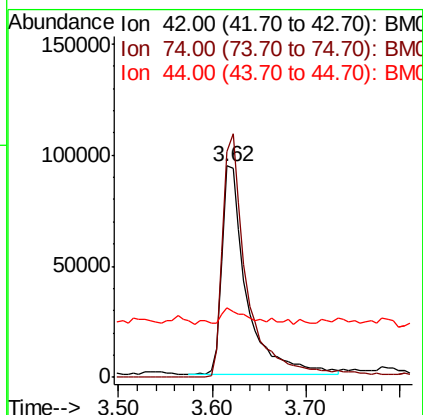
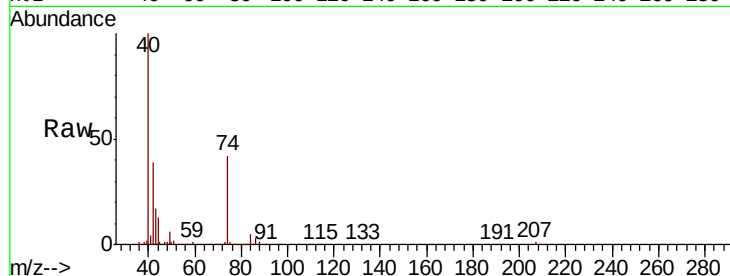


#4

n-Nitrosodimethylamine  
 Concen: 13.876 ng  
 RT: 3.62 min Scan# 124  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

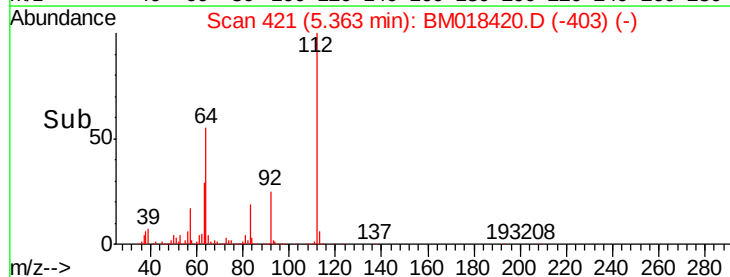
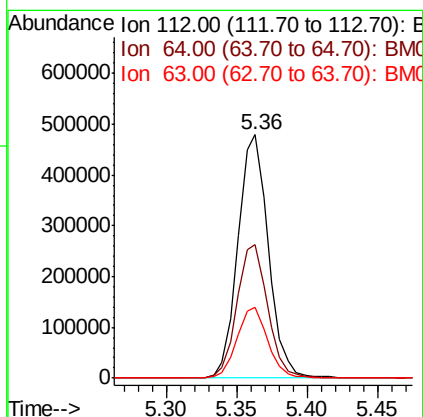
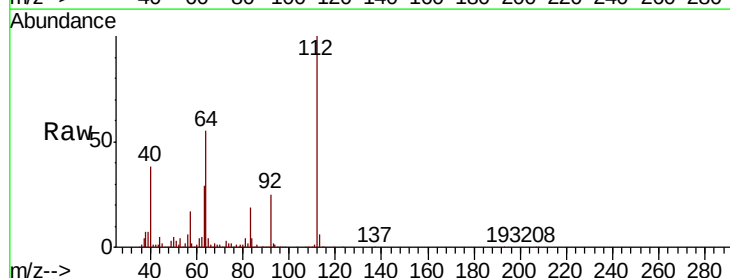
Tgt Ion: 42 Resp: 171686  
 Ion Ratio Lower Upper  
 42 100  
 74 106.8 88.6 132.8  
 44 32.7 16.9 25.3#

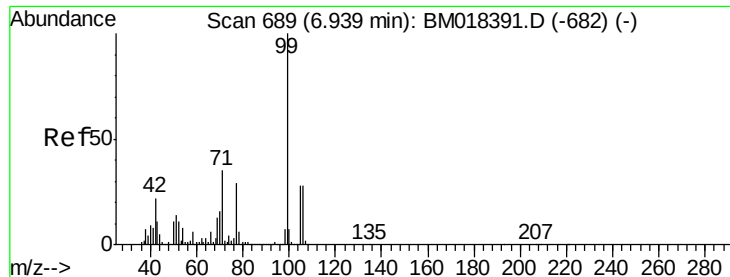


#5

2-Fluorophenol  
 Concen: 26.670 ng  
 RT: 5.36 min Scan# 421  
 Delta R.T. 0.01 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Tgt Ion: 112 Resp: 720434  
 Ion Ratio Lower Upper  
 112 100  
 64 54.9 46.5 69.7  
 63 29.1 25.2 37.8





#7

Phenol-d6

Concen: 19.238 ng

RT: 6.95 min Scan# 690

Delta R.T. 0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

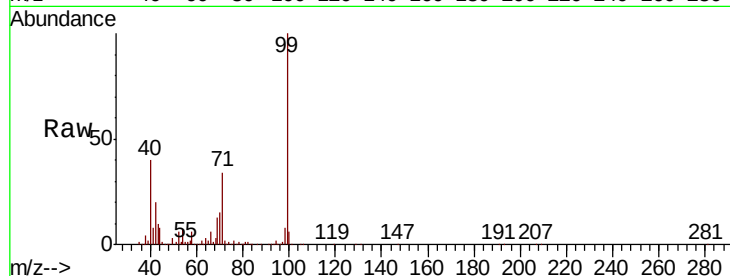
Tgt Ion: 99 Resp: 721598

Ion Ratio Lower Upper

99 100

42 20.1 17.3 25.9

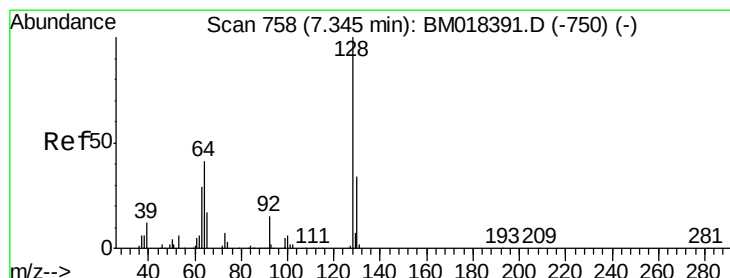
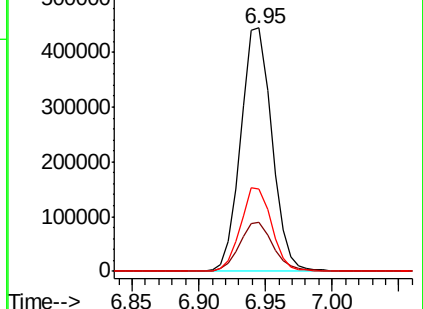
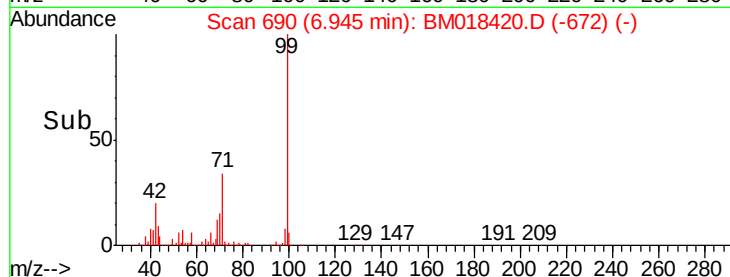
71 33.6 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BM018391.D (-682) (-)

Ion 42.00 (41.70 to 42.70): BM018391.D (-682) (-)

Ion 71.00 (70.70 to 71.70): BM018391.D (-682) (-)



#8

2-Chlorophenol

Concen: 20.033 ng

RT: 7.35 min Scan# 758

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

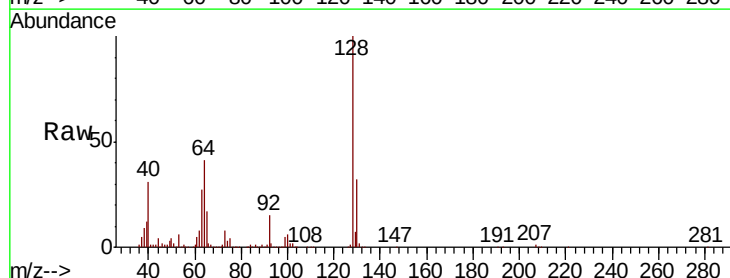
Tgt Ion: 128 Resp: 652574

Ion Ratio Lower Upper

128 100

130 32.5 13.6 53.6

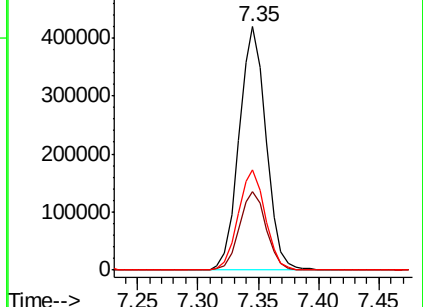
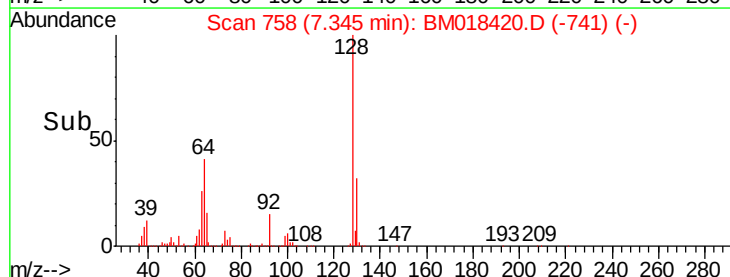
64 41.2 24.8 64.8

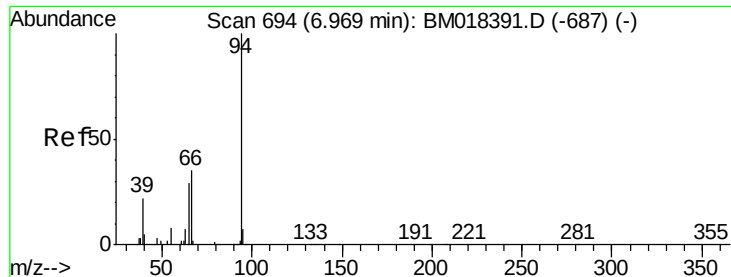


Abundance Ion 128.00 (127.70 to 128.70): BM018391.D (-750) (-)

Ion 130.00 (129.70 to 130.70): BM018391.D (-750) (-)

Ion 64.00 (63.70 to 64.70): BM018391.D (-750) (-)





#10

Phenol

Concen: 9.619 ng

RT: 6.97 min Scan# 694

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

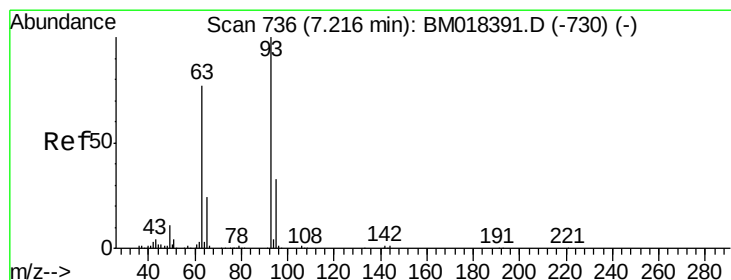
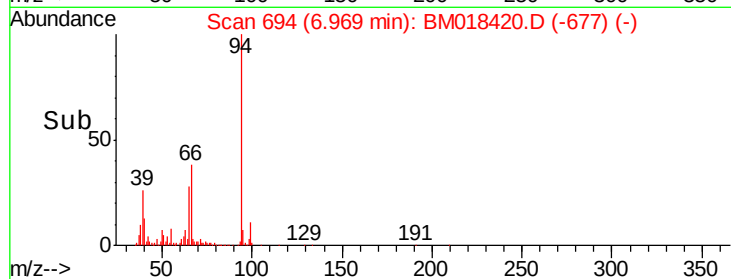
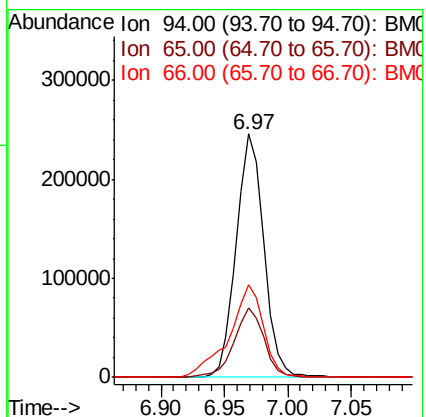
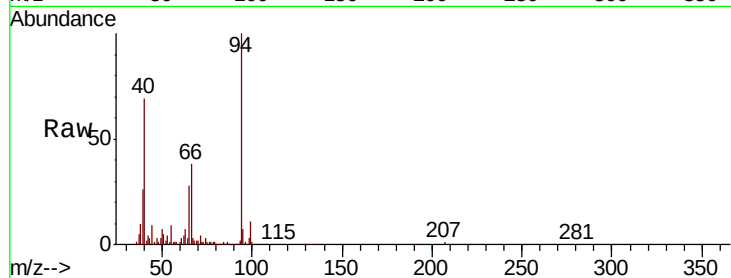
Tgt Ion: 94 Resp: 371197

Ion Ratio Lower Upper

94 100

65 28.5 9.4 49.4

66 38.2 19.1 59.1



#11

bis(2-Chloroethyl)ether

Concen: 18.188 ng

RT: 7.22 min Scan# 736

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

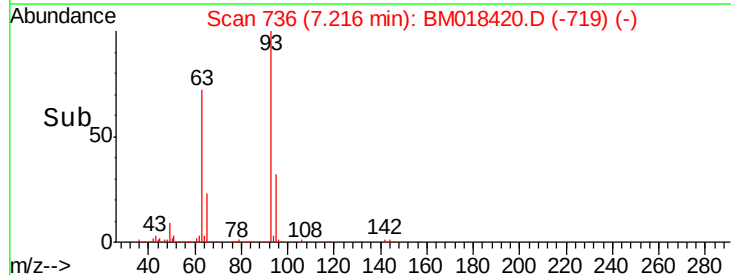
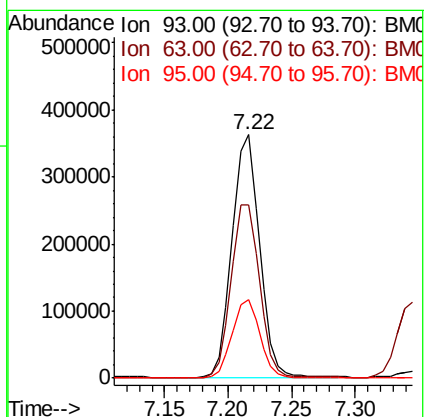
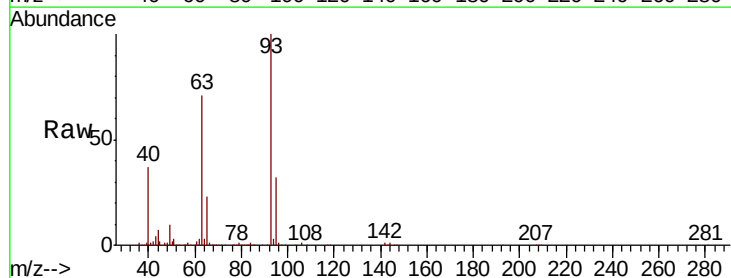
Tgt Ion: 93 Resp: 547079

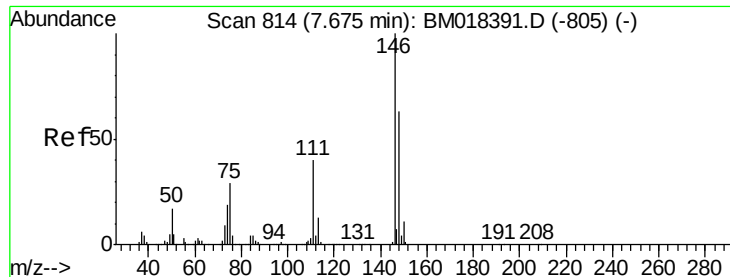
Ion Ratio Lower Upper

93 100

63 71.1 56.4 96.4

95 32.1 12.7 52.7

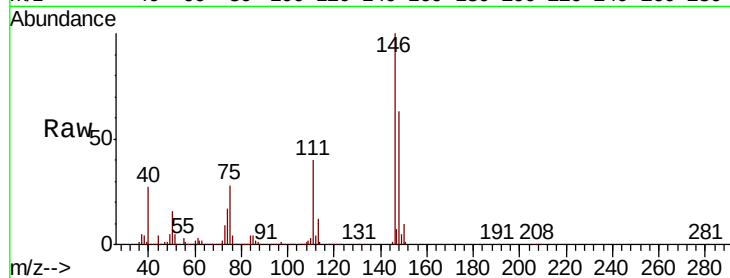




#12  
 1,3-Dichlorobenzene  
 Concen: 18.357 ng  
 RT: 7.67 min Scan# 813  
 Delta R.T. -0.01 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 63.0  | 50.5  | 75.7  |
| 75      | 28.5  | 23.0  | 34.6  |

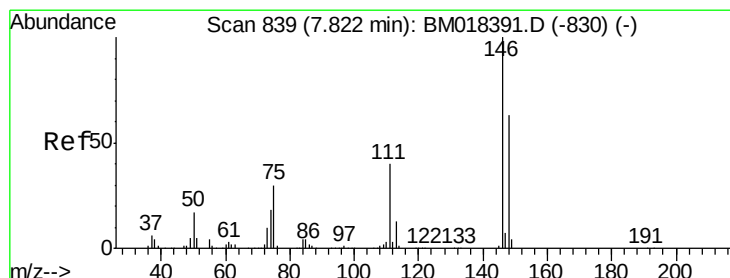
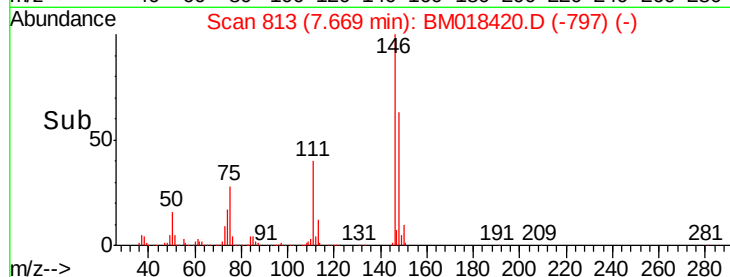
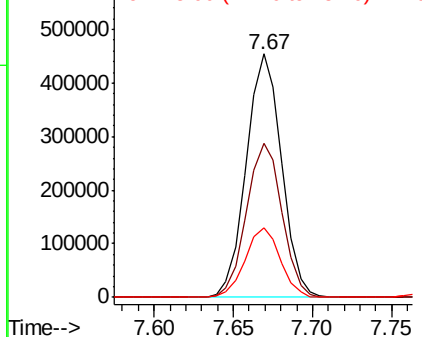


Abundance

Ion 146.00 (145.70 to 146.70): E

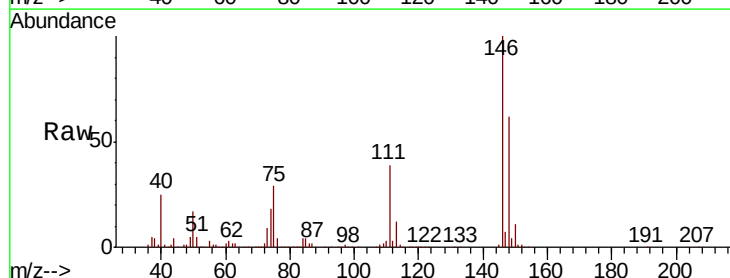
Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BM



#13  
 1,4-Dichlorobenzene  
 Concen: 18.802 ng  
 RT: 7.82 min Scan# 838  
 Delta R.T. -0.01 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 62.3  | 50.8  | 76.2  |
| 111     | 39.1  | 32.2  | 48.2  |

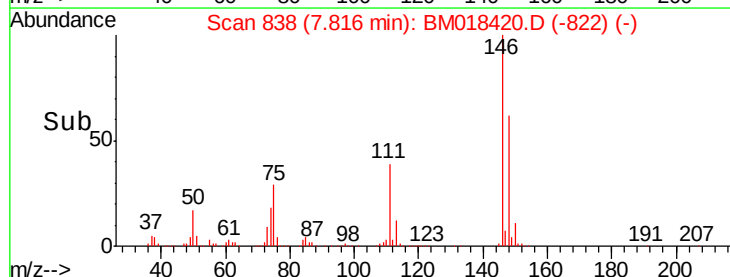
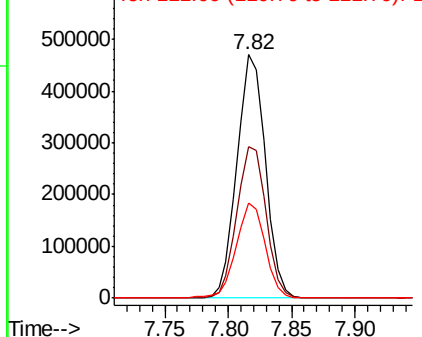


Abundance

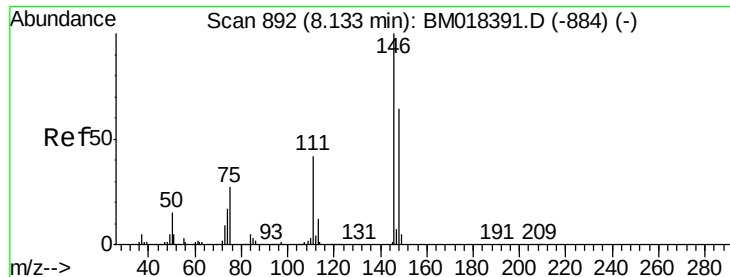
Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



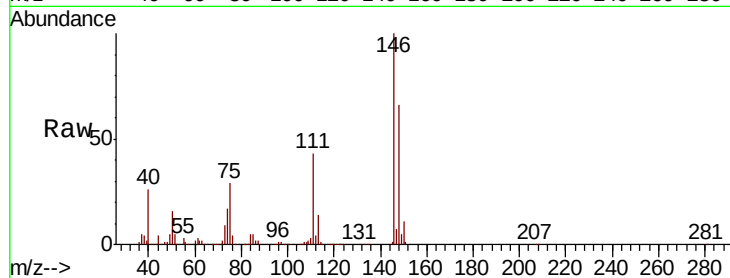




#14  
 1,2-Dichlorobenzene  
 Concen: 18.515 ng  
 RT: 8.13 min Scan# 892  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 65.6  | 51.0  | 76.6  |
| 111     | 42.8  | 33.8  | 50.6  |

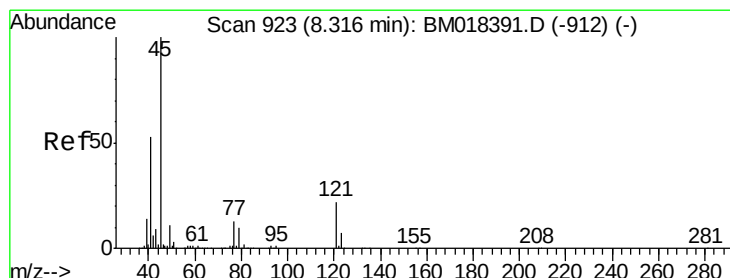
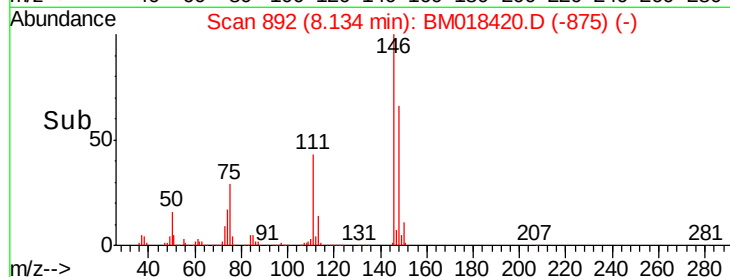
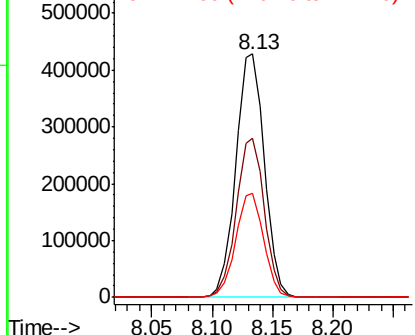


Abundance

Ion 146.00 (145.70 to 146.70): E

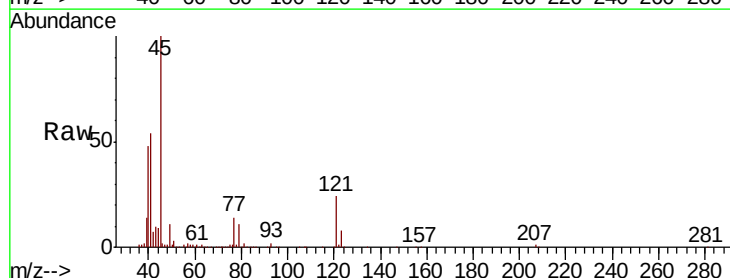
Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#16  
 2,2'-oxybis(1-Chloropropane)  
 Concen: 12.258 ng  
 RT: 8.31 min Scan# 922  
 Delta R.T. -0.01 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 77      | 14.2  | 0.0   | 33.4  |
| 79      | 11.2  | 0.0   | 31.1  |

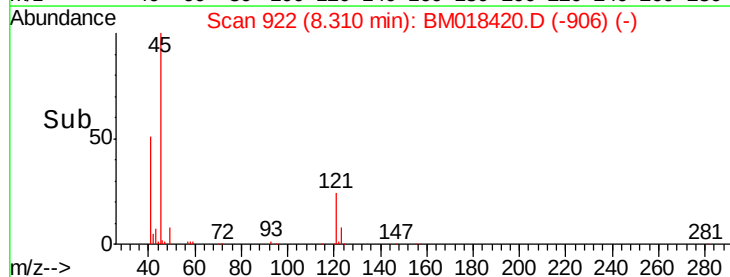
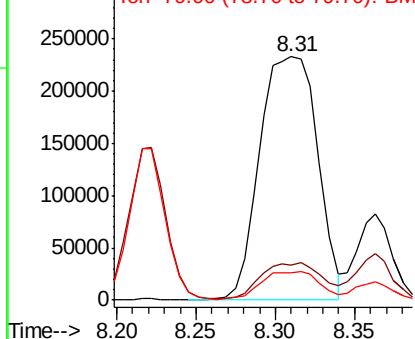


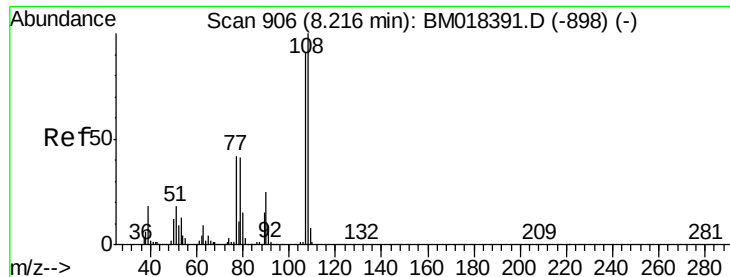
Abundance

Ion 45.00 (44.70 to 45.70): BM0

Ion 77.00 (76.70 to 77.70): BM0

Ion 79.00 (78.70 to 79.70): BM0





#17

2-Methylphenol

Concen: 19.231 ng

RT: 8.22 min Scan# 907

Delta R.T. 0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

Tgt Ion:107 Resp: 525707

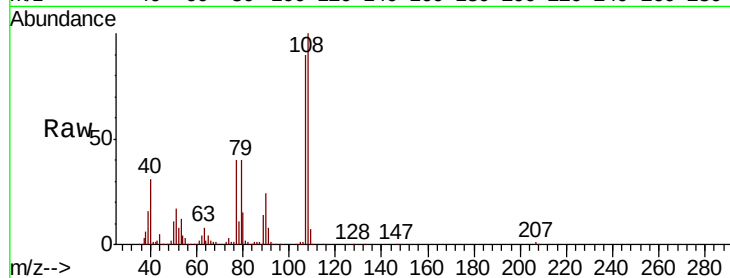
Ion Ratio Lower Upper

107 100

108 110.6 87.5 131.3

77 43.9 37.3 55.9

79 43.7 36.4 54.6

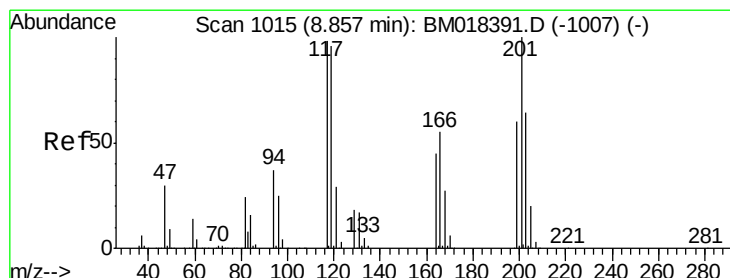
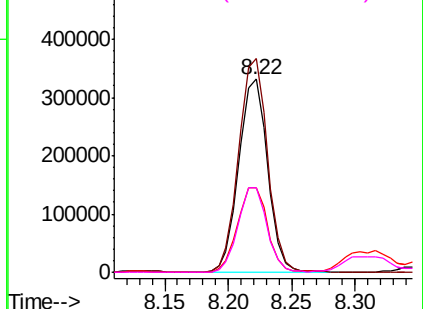
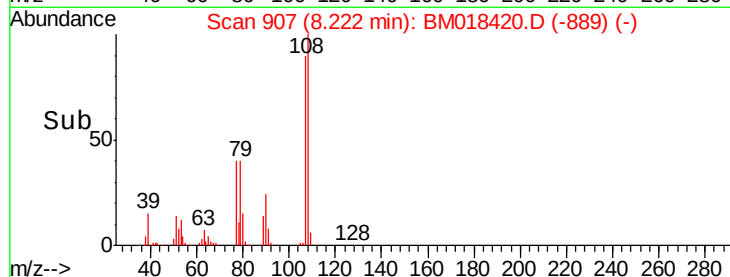


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BM

Ion 79.00 (78.70 to 79.70): BM



#18

Hexachloroethane

Concen: 18.203 ng

RT: 8.85 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

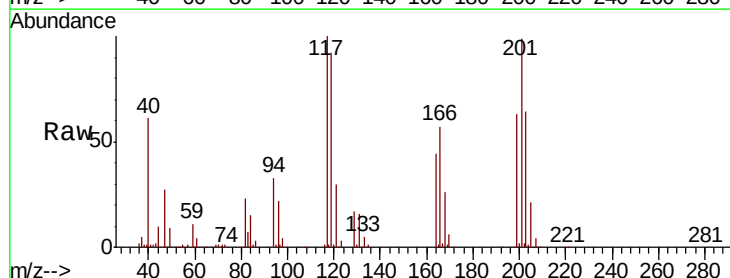
Tgt Ion:117 Resp: 252595

Ion Ratio Lower Upper

117 100

119 91.8 78.3 117.5

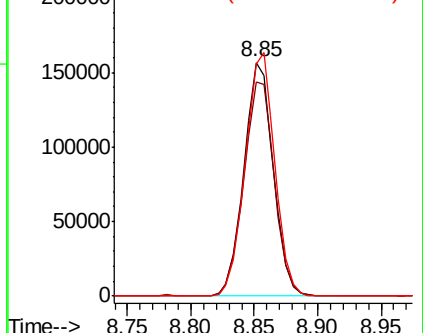
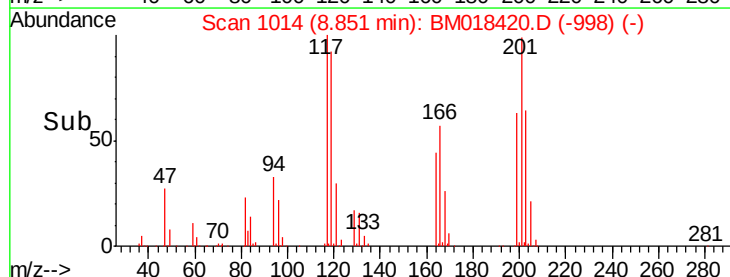
201 99.1 81.4 122.0

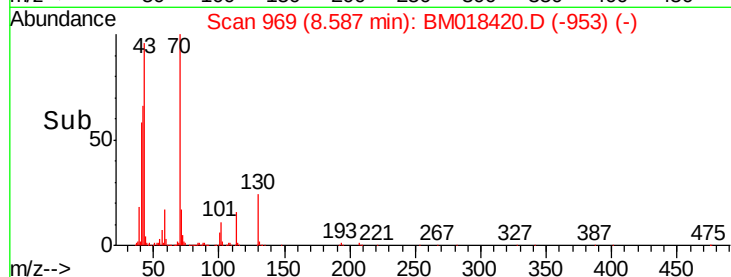
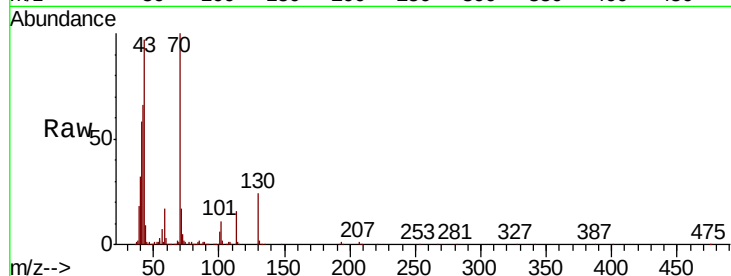
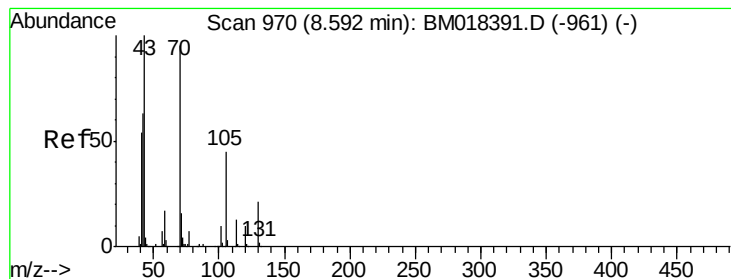


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 19.332 ng

RT: 8.59 min Scan# 969

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

Tgt Ion: 70 Resp: 552399

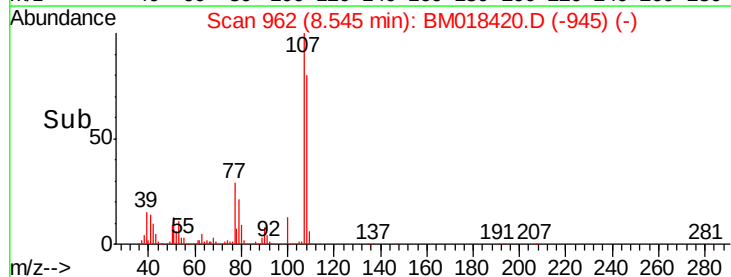
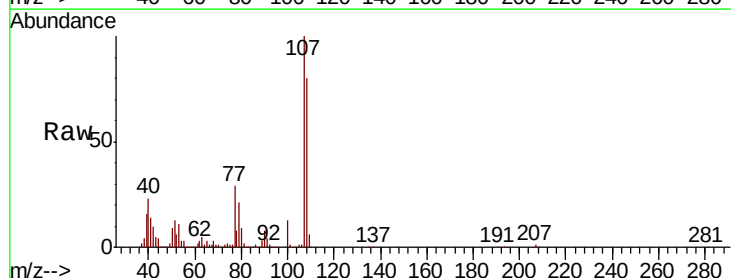
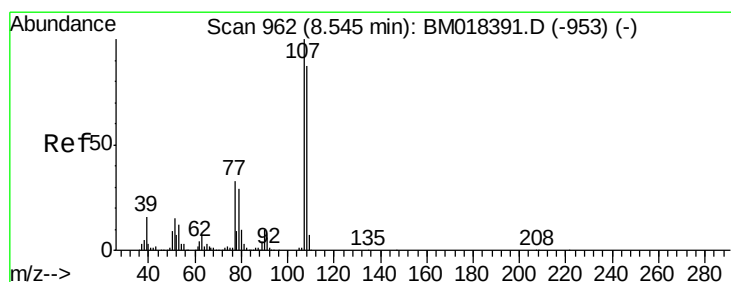
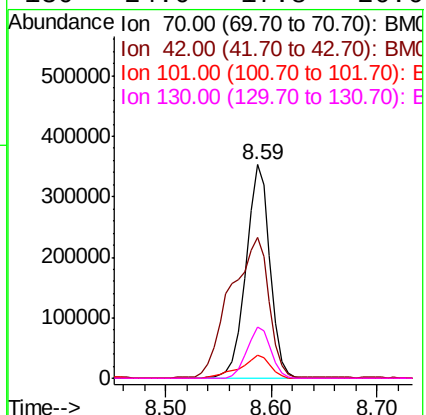
Ion Ratio Lower Upper

70 100

42 66.2 54.0 81.0

101 10.5 8.1 12.1

130 24.0 17.8 26.6



#20

3+4-Methylphenols

Concen: 20.912 ng

RT: 8.55 min Scan# 962

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Tgt Ion: 107 Resp: 766942

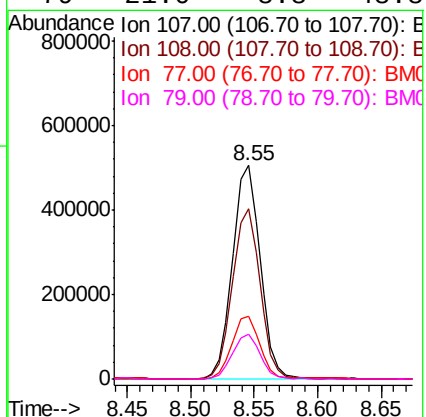
Ion Ratio Lower Upper

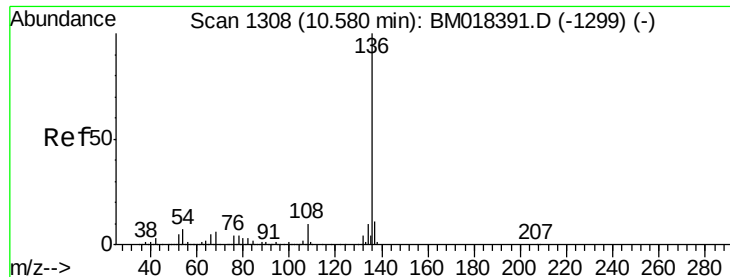
107 100

108 79.7 66.8 106.8

77 29.2 13.3 53.3

79 21.0 8.8 48.8

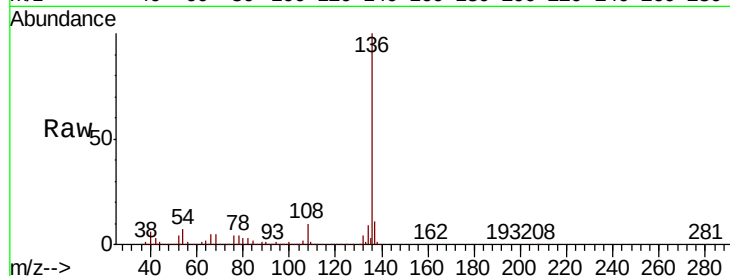




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.57 min Scan# 1307  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

| Tgt Ion: | 136   | Resp: | 2328057 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 10.9  | 8.5   | 12.7    |
| 54       | 7.0   | 6.0   | 9.0     |
| 68       | 4.8   | 4.5   | 6.7     |



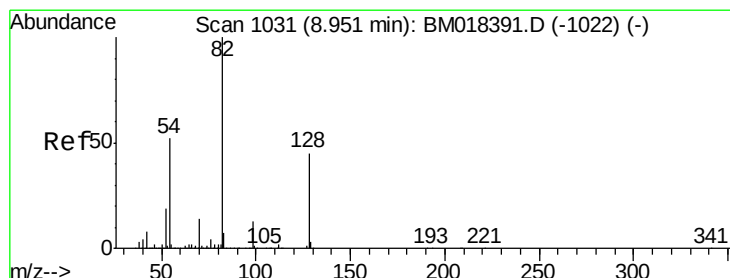
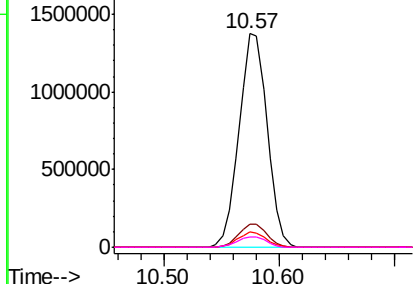
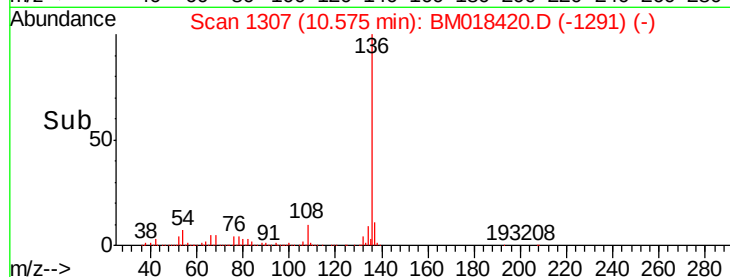
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

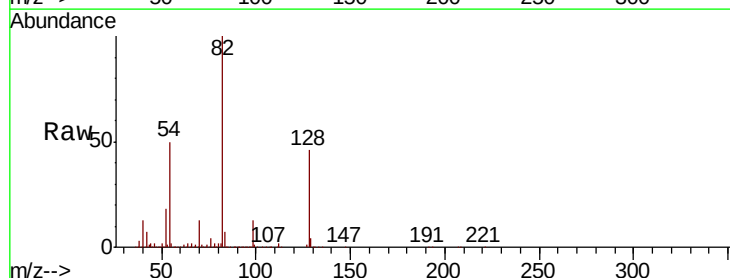
Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#23  
Nitrobenzene-d5  
Concen: 42.623 ng  
RT: 8.95 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

| Tgt Ion: | 82    | Resp: | 1728912 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 45.8  | 36.3  | 54.5    |
| 54       | 50.4  | 41.7  | 62.5    |

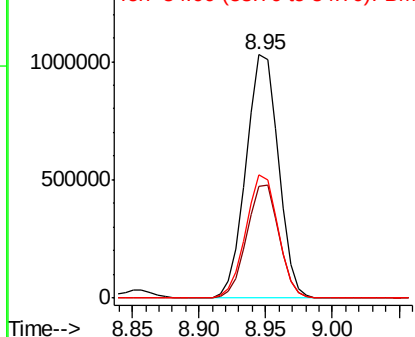
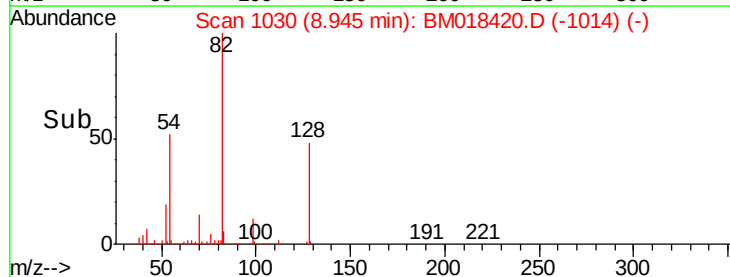


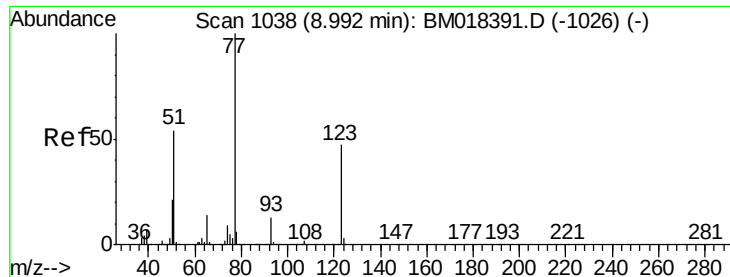
Abundance

Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM

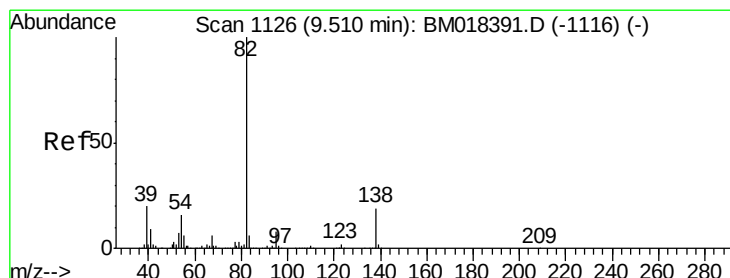
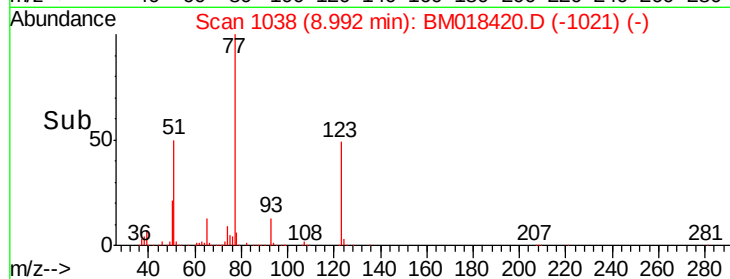
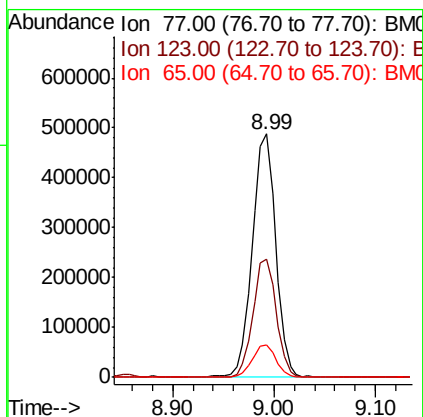
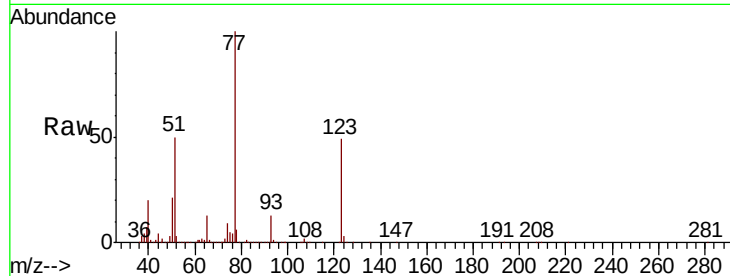




#24  
 Nitrobenzene  
 Concen: 19.490 ng  
 RT: 8.99 min Scan# 1038  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

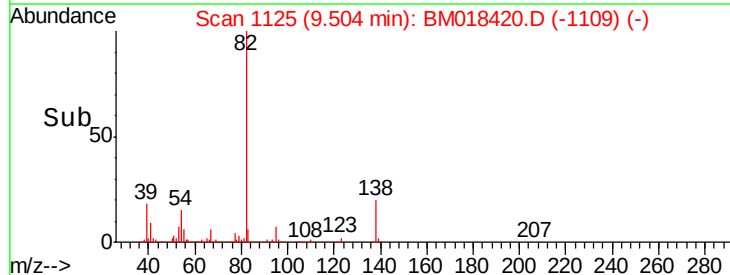
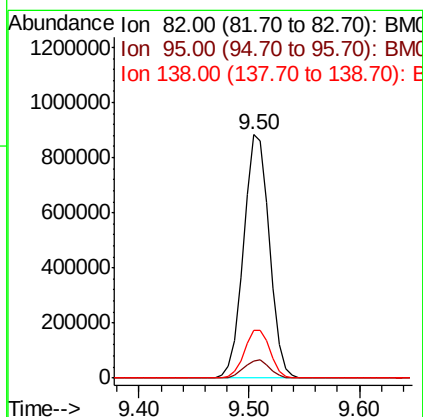
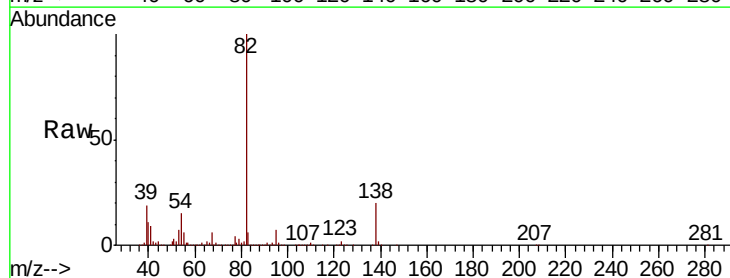
Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

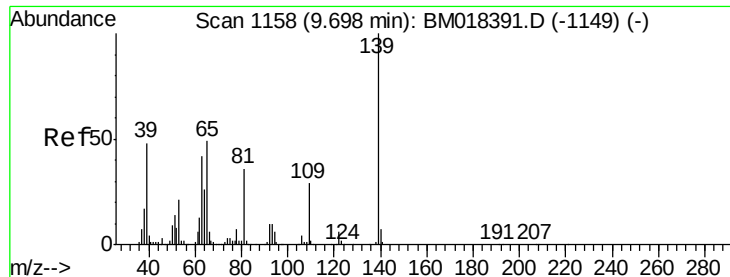
Tgt Ion: 77 Resp: 782351  
 Ion Ratio Lower Upper  
 77 100  
 123 48.8 37.7 56.5  
 65 13.4 11.0 16.6



#25  
 Isophorone  
 Concen: 20.600 ng  
 RT: 9.50 min Scan# 1125  
 Delta R.T. -0.01 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Tgt Ion: 82 Resp: 1449427  
 Ion Ratio Lower Upper  
 82 100  
 95 7.3 6.1 9.1  
 138 19.7 15.1 22.7

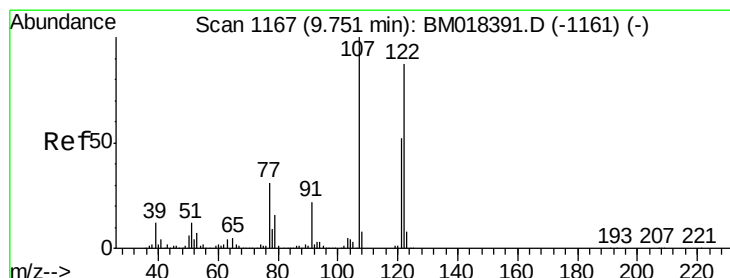
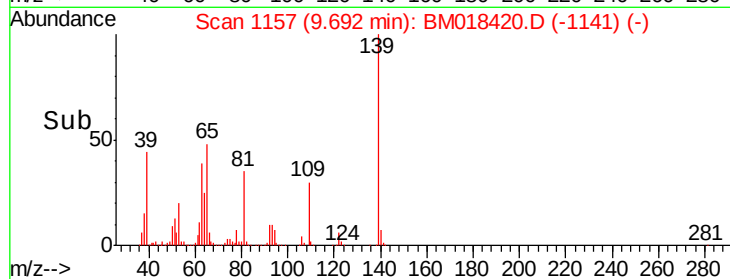
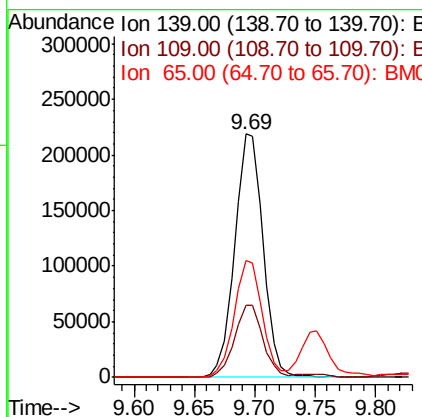
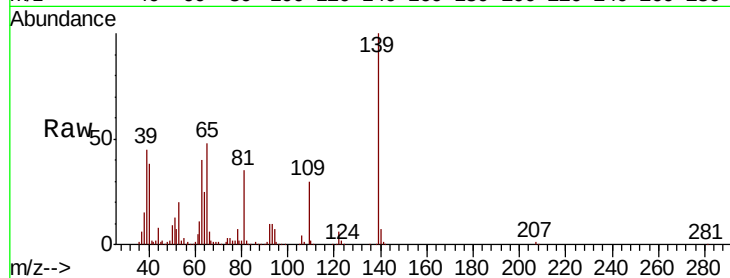




#26  
2-Nitrophenol  
Concen: 25.272 ng  
RT: 9.69 min Scan# 1157  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

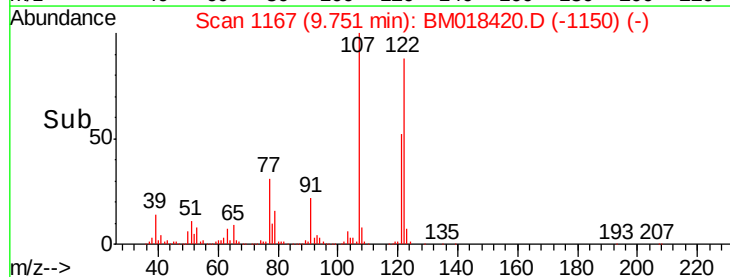
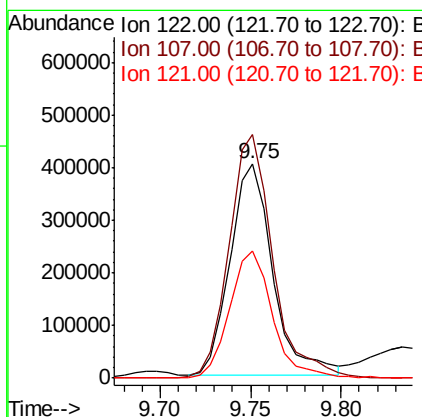
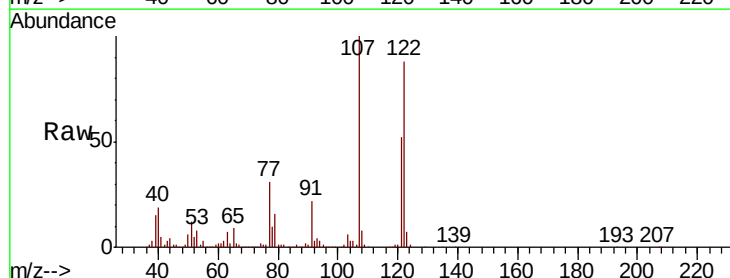
Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

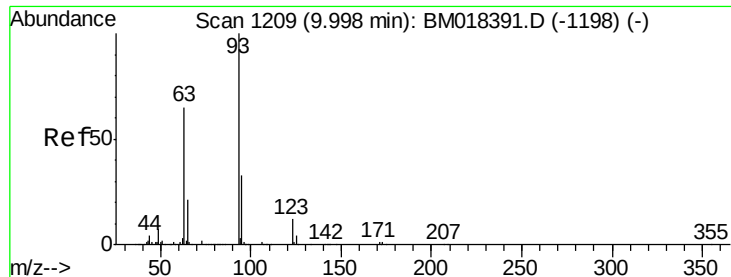
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 29.6  | 23.4  | 35.2  |
| 65      | 48.0  | 39.4  | 59.2  |



#27  
2,4-Dimethylphenol  
Concen: 22.888 ng  
RT: 9.75 min Scan# 1167  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 113.5 | 91.9  | 137.9 |
| 121     | 59.2  | 47.5  | 71.3  |





#28

bis(2-Chloroethoxy)methane

Concen: 17.611 ng

RT: 9.99 min Scan# 1208

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

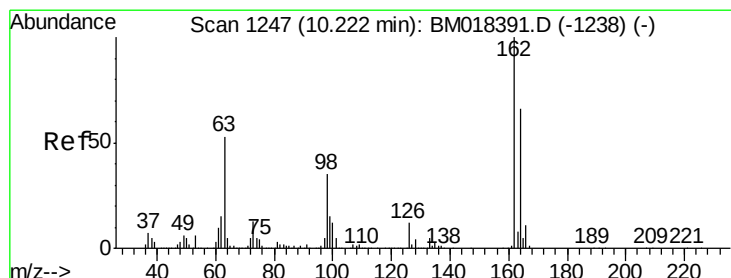
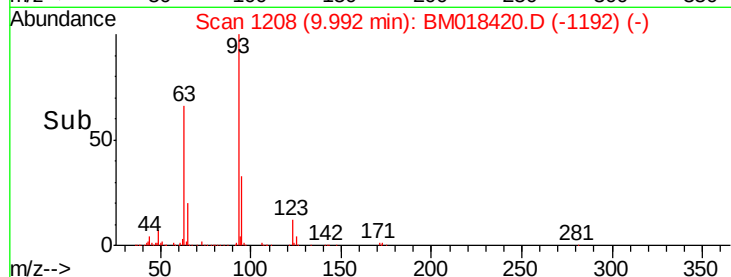
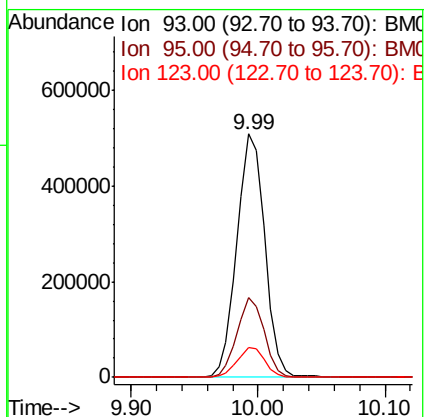
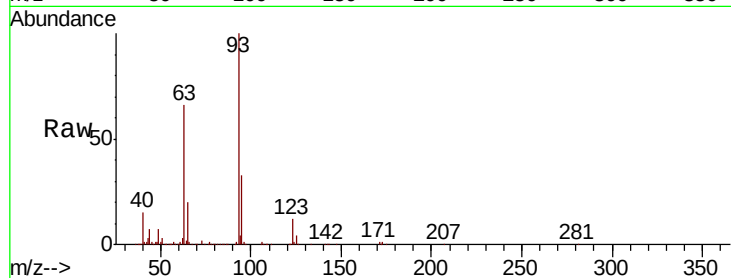
Tgt Ion: 93 Resp: 777705

Ion Ratio Lower Upper

93 100

95 33.0 26.6 39.8

123 12.1 9.9 14.9



#29

2,4-Dichlorophenol

Concen: 23.954 ng

RT: 10.22 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

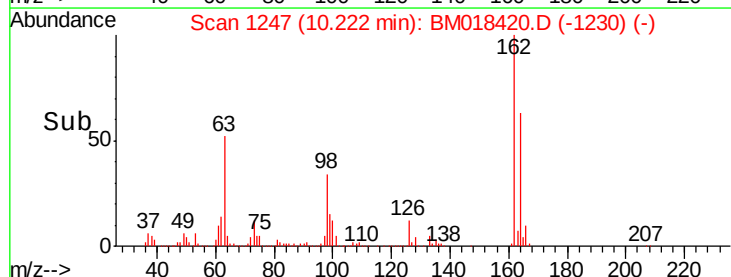
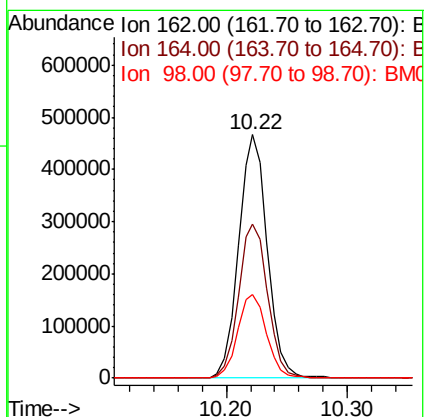
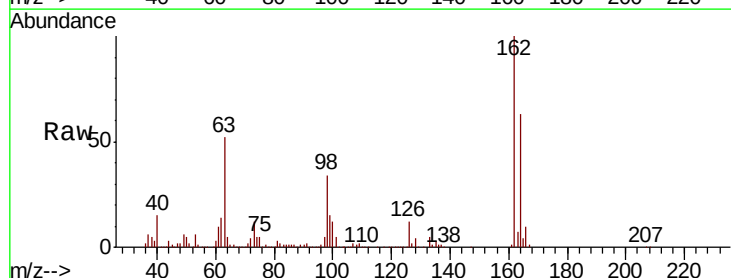
Tgt Ion: 162 Resp: 772110

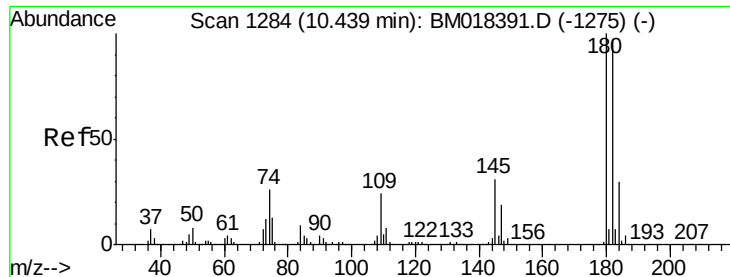
Ion Ratio Lower Upper

162 100

164 63.4 45.6 85.6

98 34.4 14.7 54.7

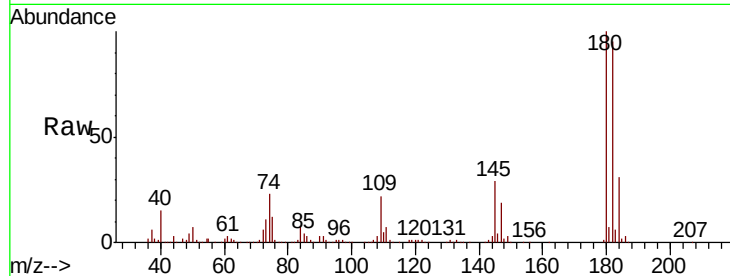




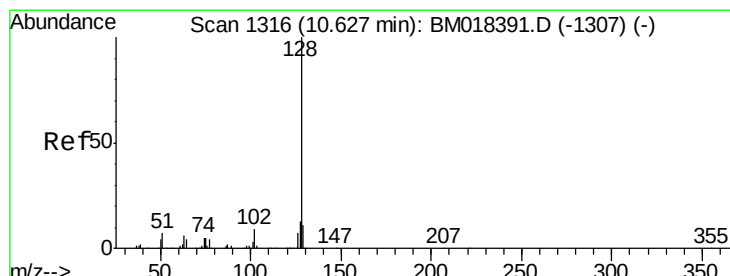
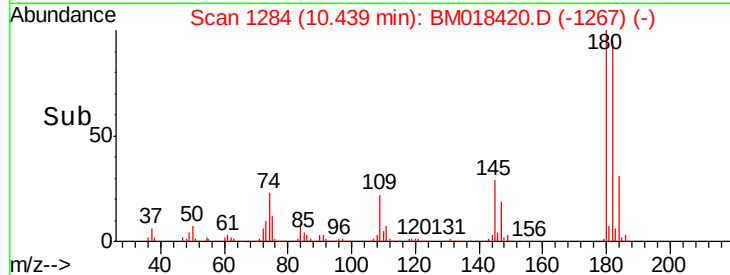
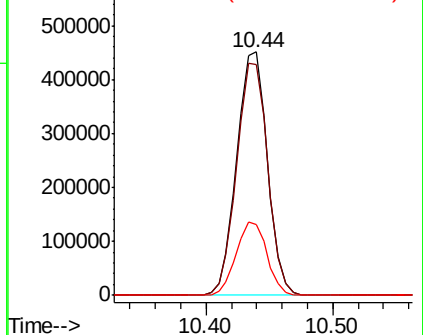
#30  
 1,2,4-Trichlorobenzene  
 Concen: 19.116 ng  
 RT: 10.44 min Scan# 1284  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

Tgt Ion:180 Resp: 754819  
 Ion Ratio Lower Upper  
 180 100  
 182 95.0 77.4 116.2  
 145 29.2 24.6 37.0

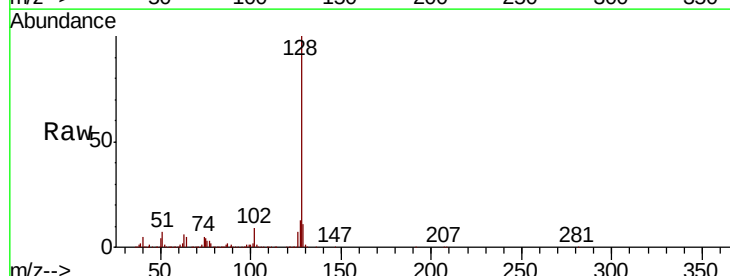


Abundance Ion 180.00 (179.70 to 180.70): E  
 Ion 182.00 (181.70 to 182.70): E  
 Ion 145.00 (144.70 to 145.70): E

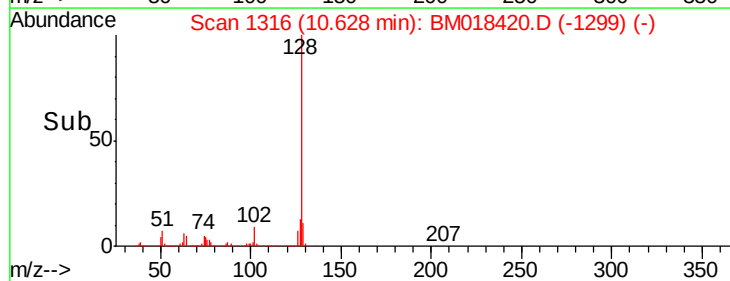
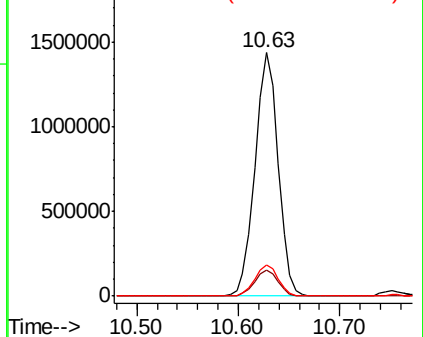


#31  
 Naphthalene  
 Concen: 20.339 ng  
 RT: 10.63 min Scan# 1316  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

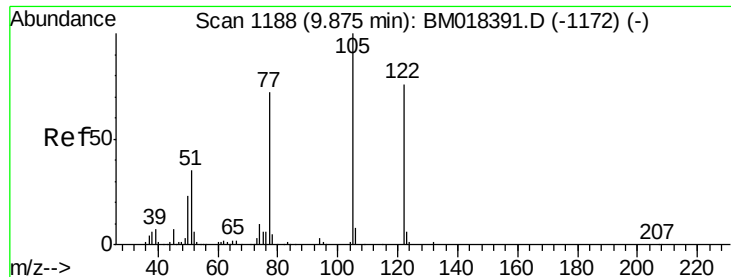
Tgt Ion:128 Resp: 2282225  
 Ion Ratio Lower Upper  
 128 100  
 129 10.5 8.7 13.1  
 127 12.8 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E  
 Ion 129.00 (128.70 to 129.70): E  
 Ion 127.00 (126.70 to 127.70): E



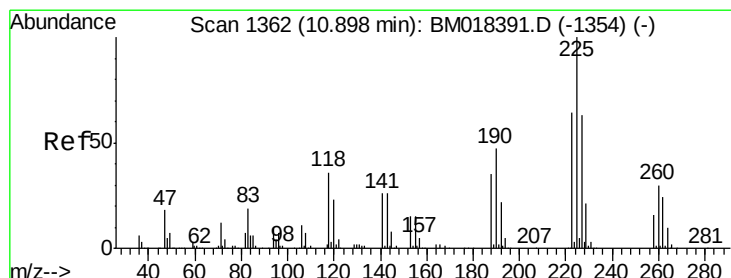
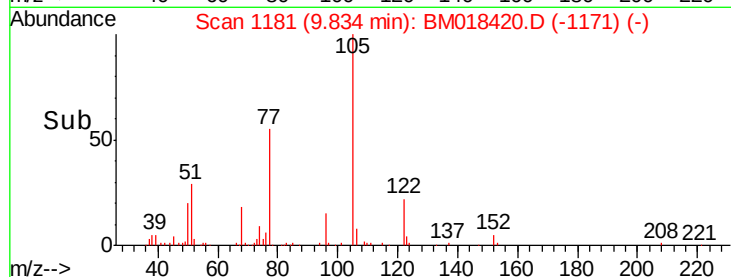
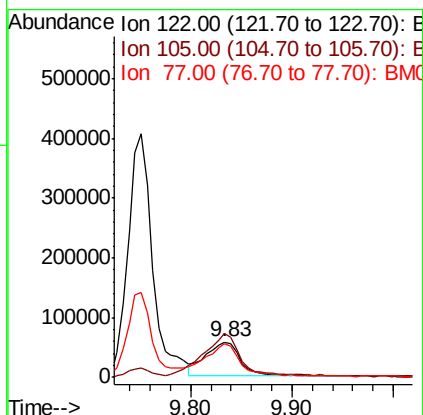
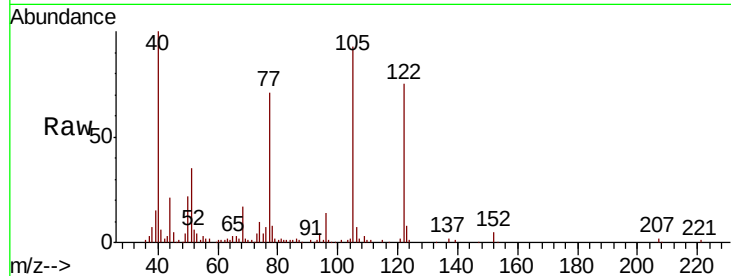




#32  
Benzoic acid  
Concen: 13.167 ng  
RT: 9.83 min Scan# 1181  
Delta R.T. -0.04 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

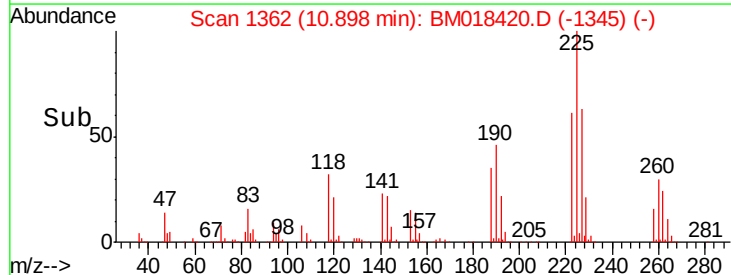
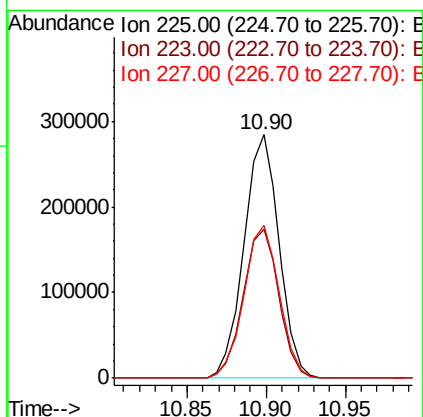
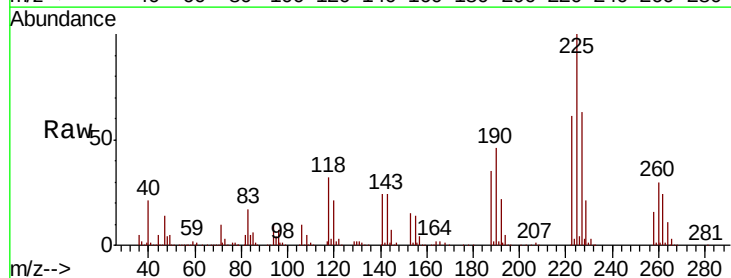
Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

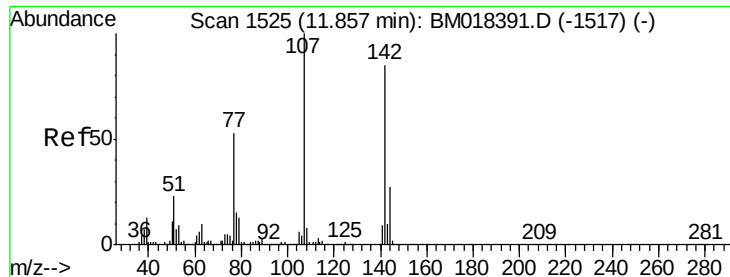
Tgt Ion:122 Resp: 140692  
Ion Ratio Lower Upper  
122 100  
105 123.1 100.4 140.4  
77 93.5 71.7 111.7



#34  
Hexachlorobutadiene  
Concen: 18.297 ng  
RT: 10.90 min Scan# 1362  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Tgt Ion:225 Resp: 438684  
Ion Ratio Lower Upper  
225 100  
223 60.9 50.8 76.2  
227 62.7 50.4 75.6

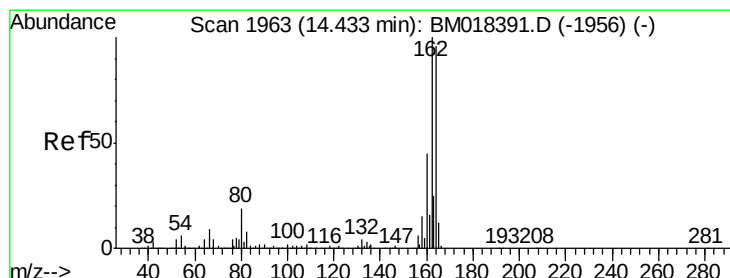
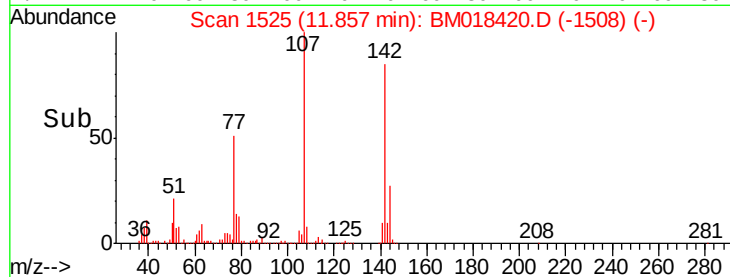
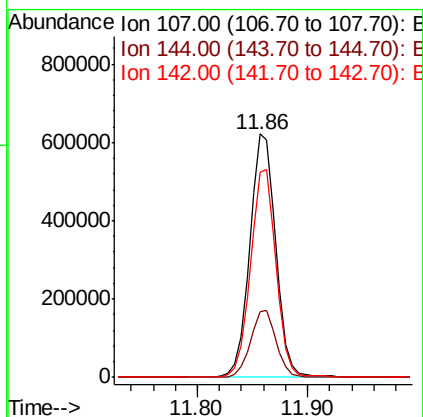
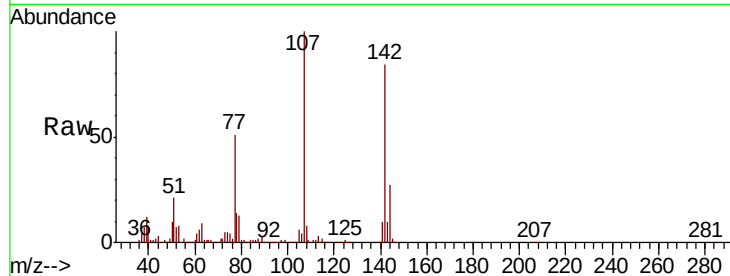




#36  
4-Chloro-3-methylphenol  
Concen: 28.141 ng  
RT: 11.86 min Scan# 1525  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

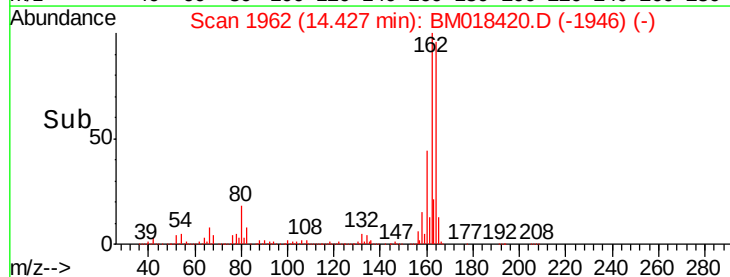
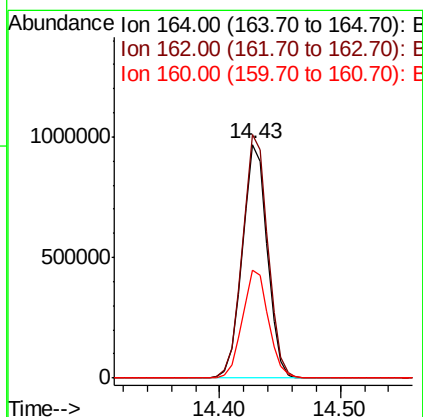
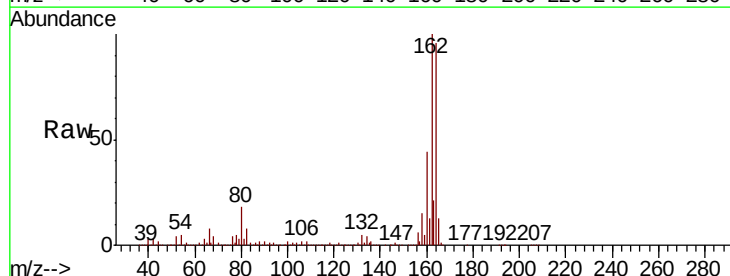
Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

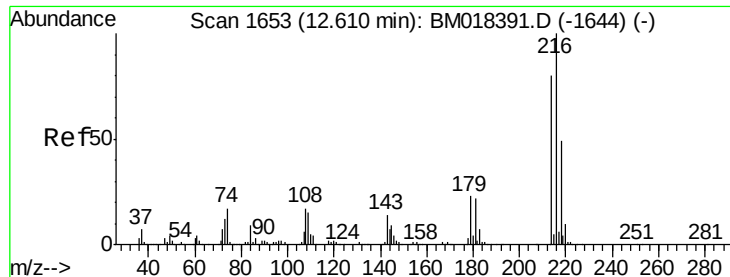
Tgt Ion:107 Resp: 1028184  
Ion Ratio Lower Upper  
107 100  
144 27.0 21.9 32.9  
142 84.5 67.9 101.9



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.43 min Scan# 1962  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Tgt Ion:164 Resp: 1395444  
Ion Ratio Lower Upper  
164 100  
162 104.2 83.0 124.4  
160 45.9 37.1 55.7





#40

1,2,4,5-Tetrachlorobenzene

Concen: 20.668 ng

RT: 12.60 min Scan# 1652

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

Tgt Ion:216 Resp: 902912

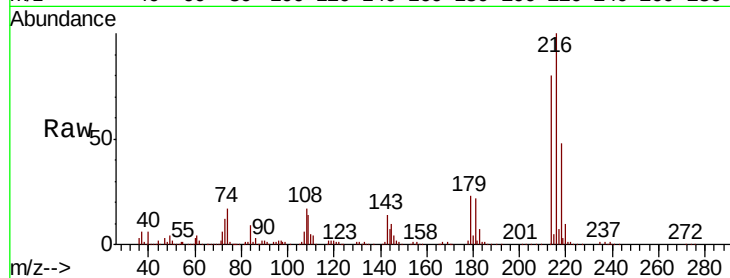
Ion Ratio Lower Upper

216 100

214 79.1 63.4 95.0

179 22.0 17.9 26.9

108 18.6 15.8 23.6

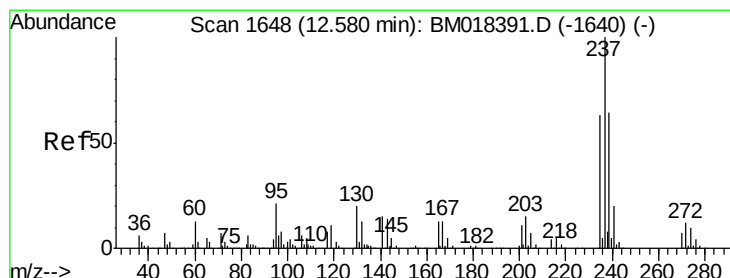
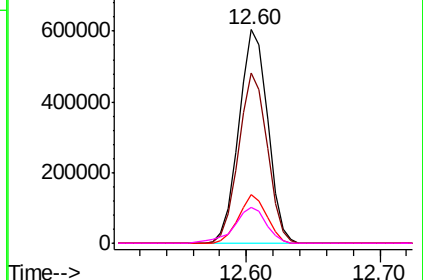
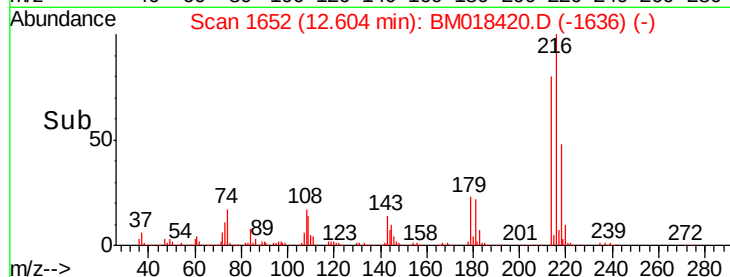


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#41

Hexachlorocyclopentadiene

Concen: 20.527 ng

RT: 12.58 min Scan# 1648

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

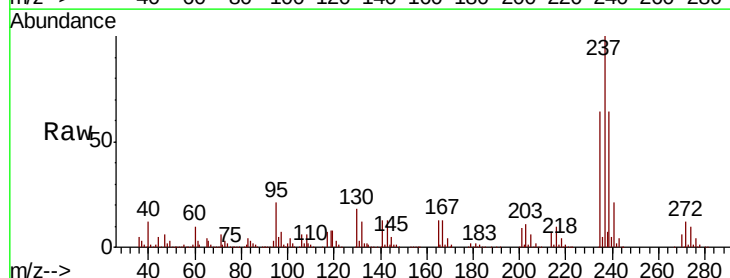
Tgt Ion:237 Resp: 434823

Ion Ratio Lower Upper

237 100

235 64.1 42.8 82.8

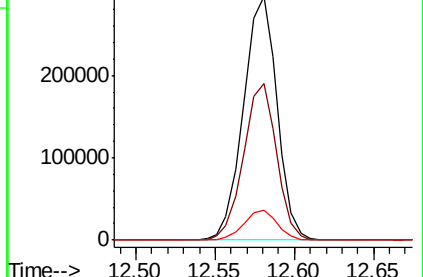
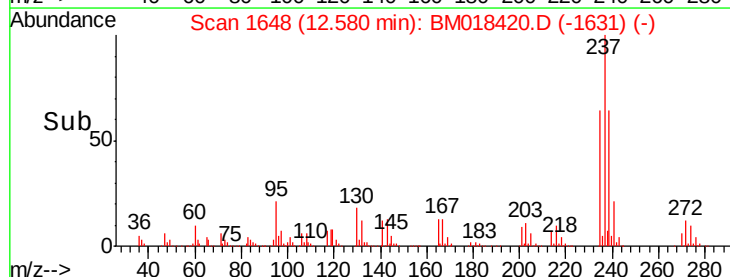
272 12.5 0.0 31.9

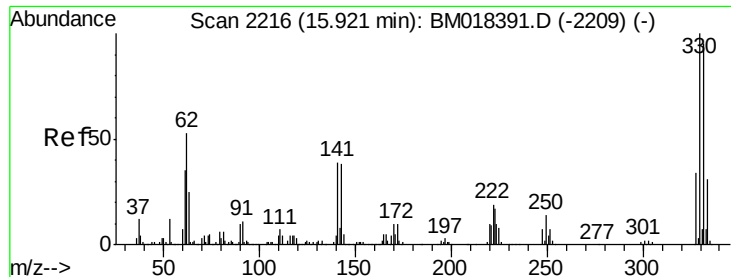


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

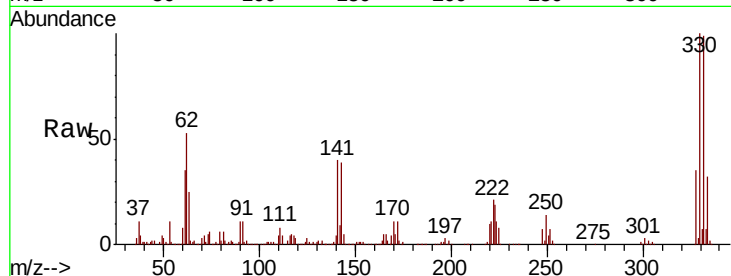




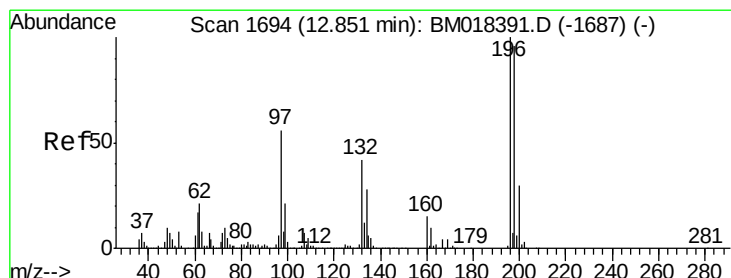
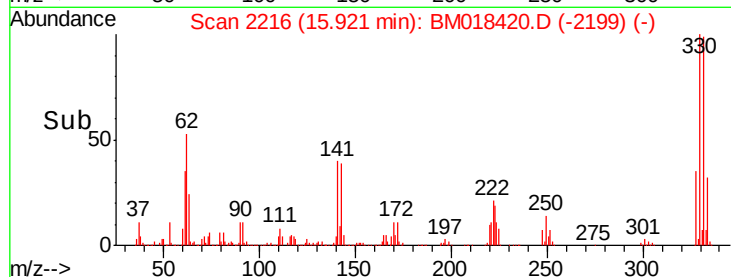
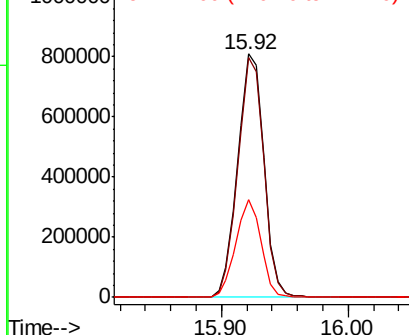
#42  
 2,4,6-Tribromophenol  
 Concen: 65.499 ng  
 RT: 15.92 min Scan# 2216  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

Tgt Ion:330 Resp: 1161311  
 Ion Ratio Lower Upper  
 330 100  
 332 97.1 77.6 116.4  
 141 38.5 31.7 47.5

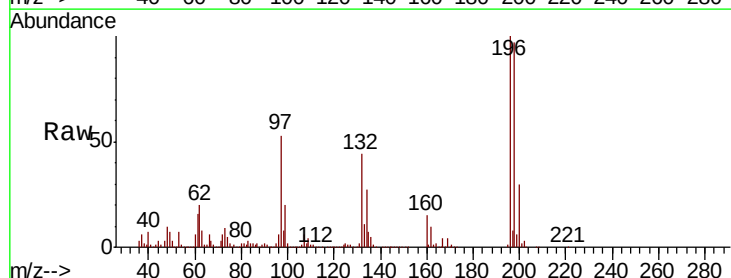


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

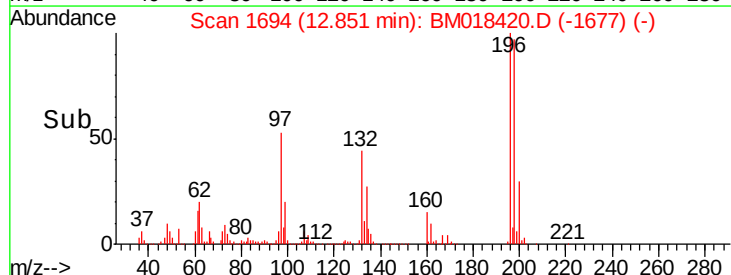
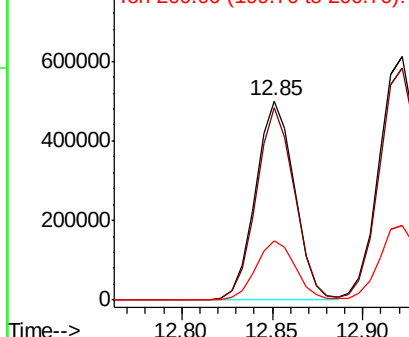


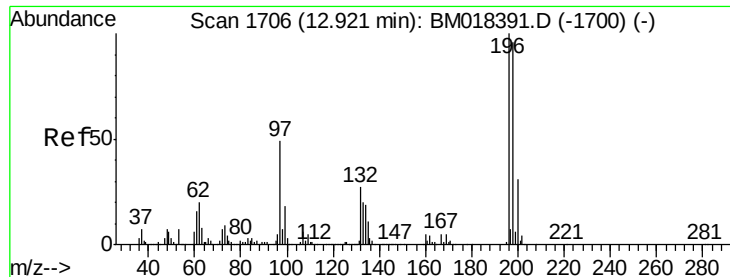
#43  
 2,4,6-Trichlorophenol  
 Concen: 30.099 ng  
 RT: 12.85 min Scan# 1694  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Tgt Ion:196 Resp: 746895  
 Ion Ratio Lower Upper  
 196 100  
 198 96.7 76.6 115.0  
 200 29.7 24.2 36.4



Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E

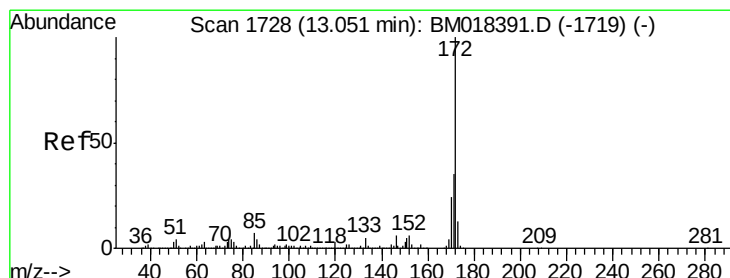
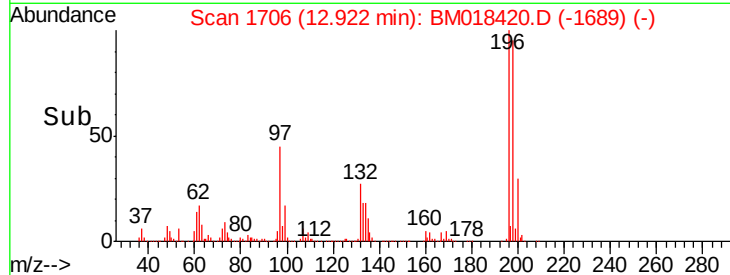
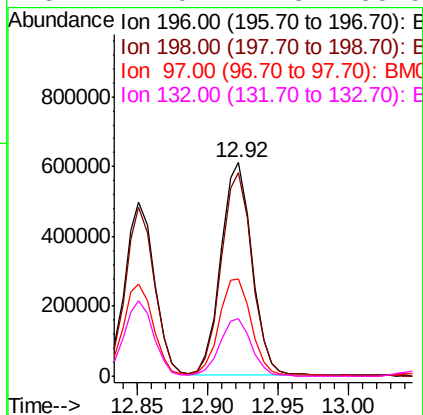
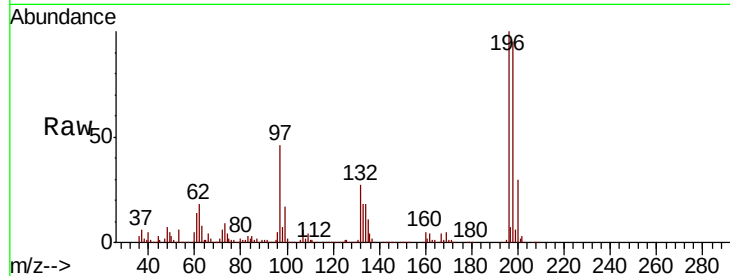




#44  
 2,4,5-Trichlorophenol  
 Concen: 34.389 ng  
 RT: 12.92 min Scan# 1706  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

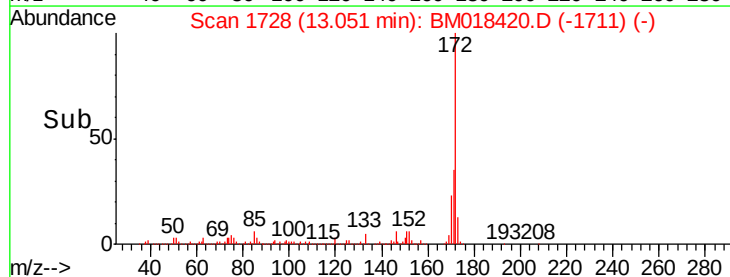
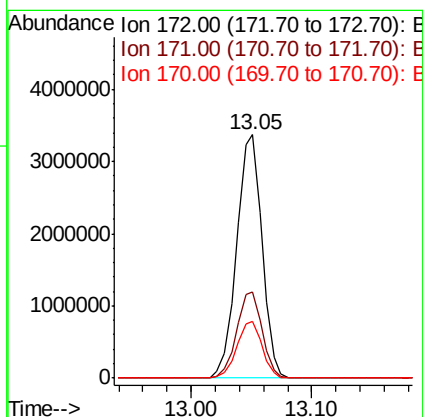
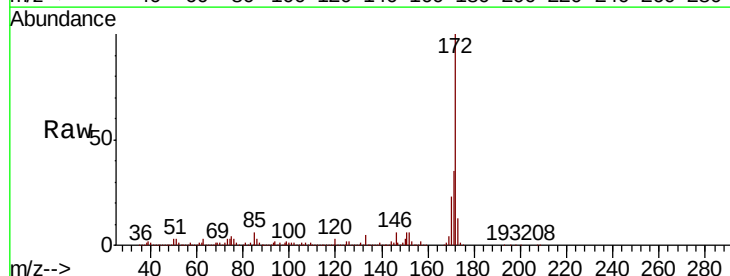
Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

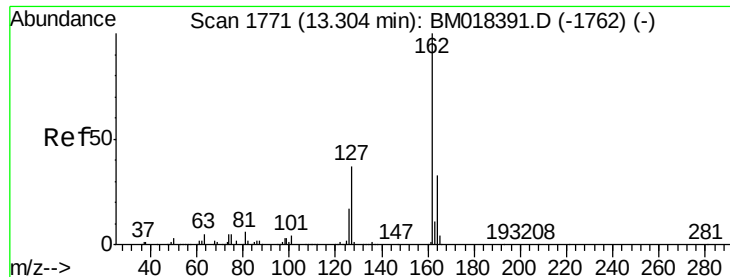
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 196     | 100  |       |       |
| 198     | 95.4 | 76.7  | 115.1 |
| 97      | 45.7 | 39.2  | 58.8  |
| 132     | 27.0 | 22.3  | 33.5  |



#45  
 2-Fluorobiphenyl  
 Concen: 47.792 ng  
 RT: 13.05 min Scan# 1728  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 172     | 100  |       |       |
| 171     | 35.3 | 28.2  | 42.4  |
| 170     | 23.4 | 18.9  | 28.3  |

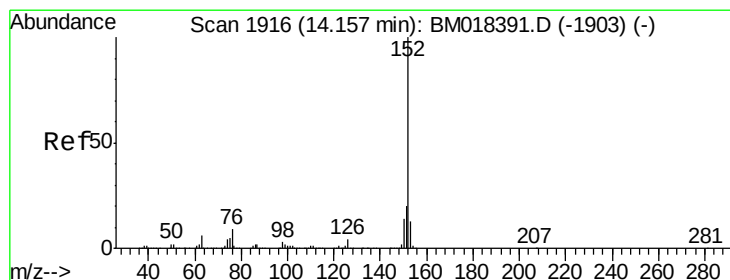
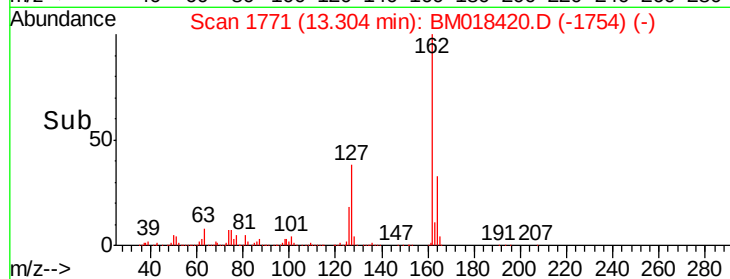
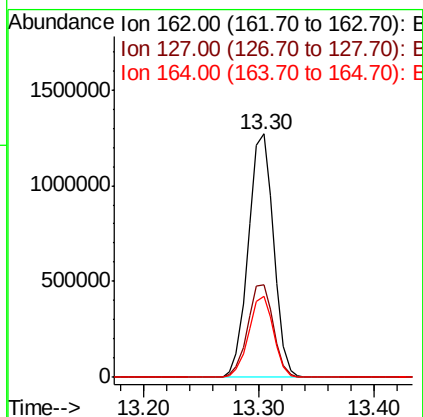
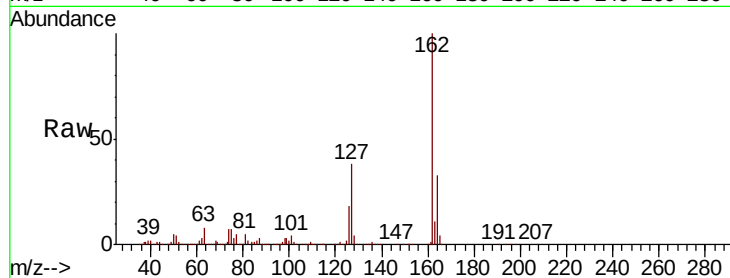




#47  
2-Chloronaphthalene  
Concen: 21.146 ng  
RT: 13.30 min Scan# 1771  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

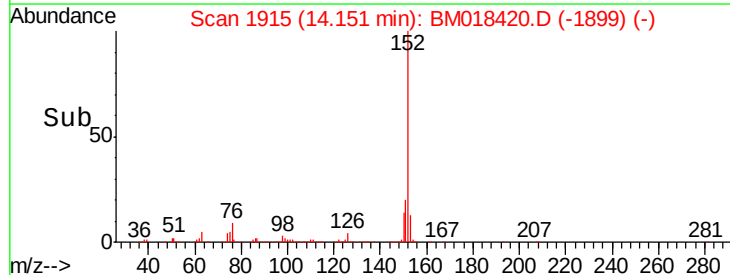
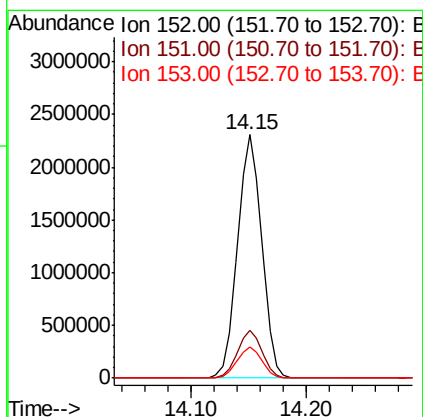
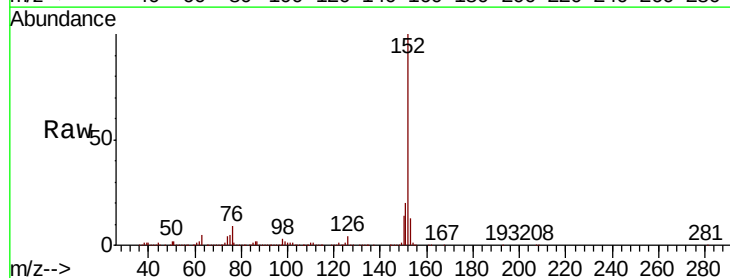
Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

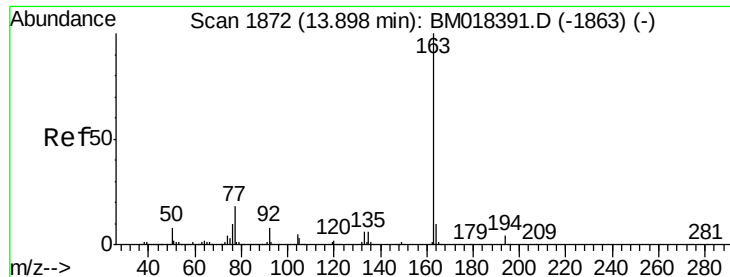
Tgt Ion:162 Resp: 1931286  
Ion Ratio Lower Upper  
162 100  
127 38.2 31.4 47.0  
164 33.1 26.2 39.4



#49  
Acenaphthylene  
Concen: 23.783 ng  
RT: 14.15 min Scan# 1915  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Tgt Ion:152 Resp: 3344043  
Ion Ratio Lower Upper  
152 100  
151 19.7 15.7 23.5  
153 12.9 10.5 15.7

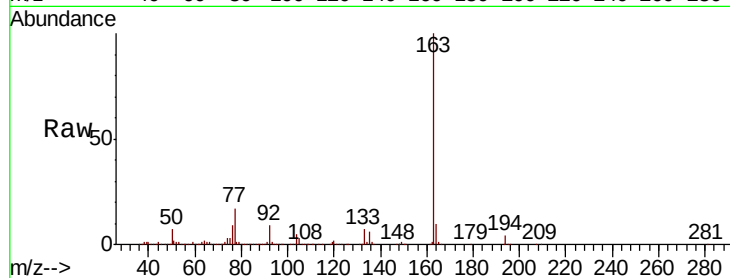




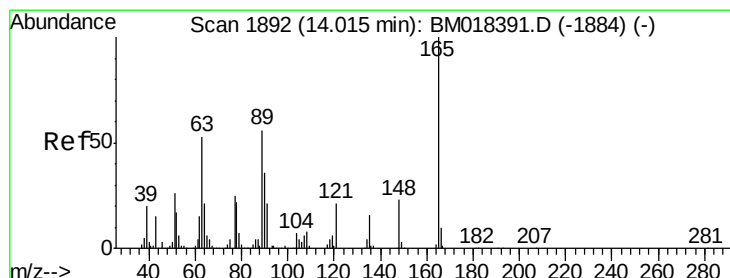
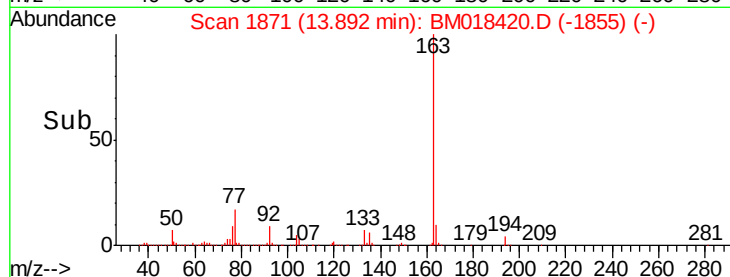
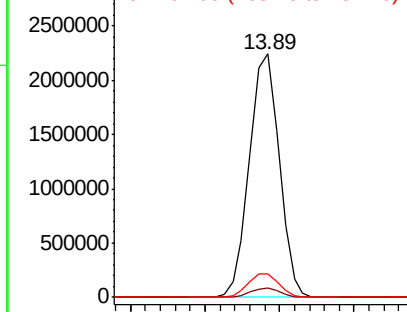
#50  
Dimethylphthalate  
Concen: 26.666 ng  
RT: 13.89 min Scan# 1871  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

Tgt Ion:163 Resp: 3108809  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.0 4.6  
164 9.9 7.8 11.8

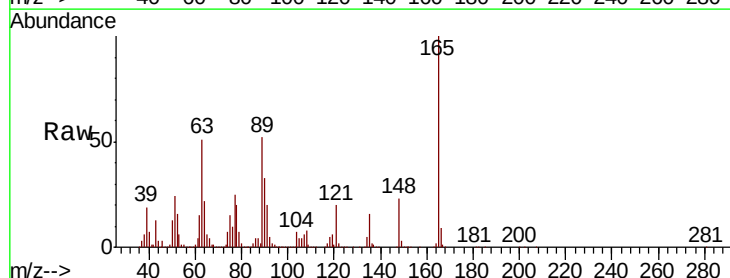


Abundance Ion 163.00 (162.70 to 163.70): E  
3000000 Ion 194.00 (193.70 to 194.70): E  
2500000 Ion 164.00 (163.70 to 164.70): E

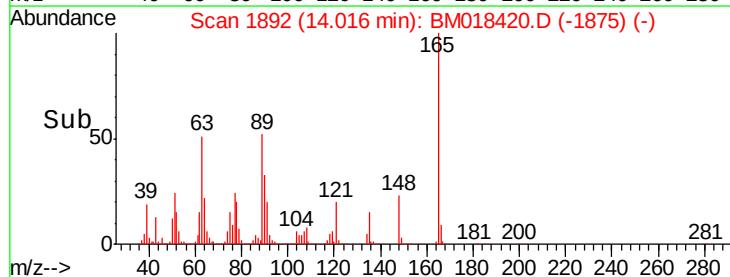
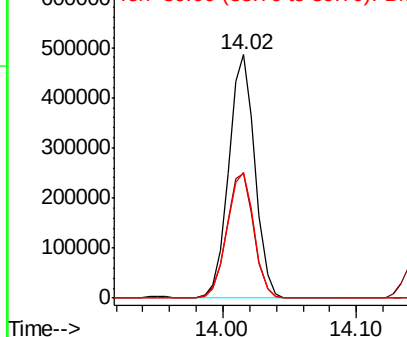


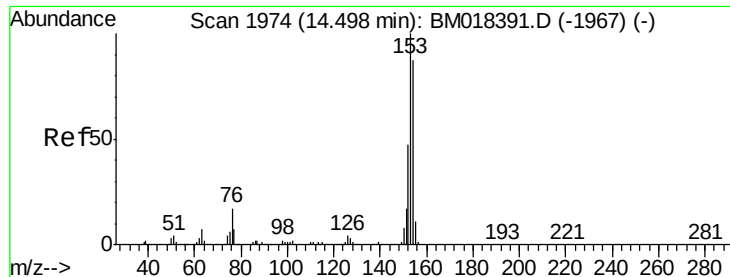
#51  
2,6-Dinitrotoluene  
Concen: 27.175 ng  
RT: 14.02 min Scan# 1892  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Tgt Ion:165 Resp: 664904  
Ion Ratio Lower Upper  
165 100  
63 51.3 45.6 68.4  
89 51.7 44.6 66.8



Abundance Ion 165.00 (164.70 to 165.70): E  
600000 Ion 63.00 (62.70 to 63.70): BM0  
500000 Ion 89.00 (88.70 to 89.70): BM0





#52

Acenaphthene

Concen: 23.867 ng

RT: 14.49 min Scan# 1973

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

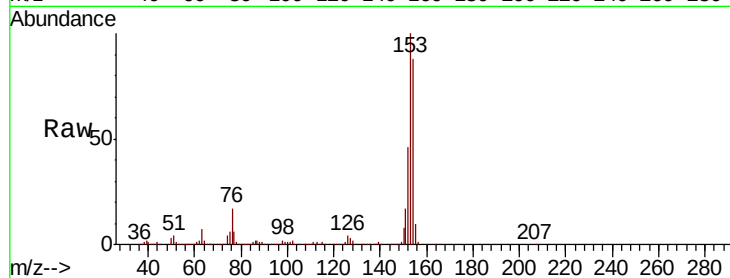
Tgt Ion:154 Resp: 2025232

Ion Ratio Lower Upper

154 100

153 114.3 92.3 138.5

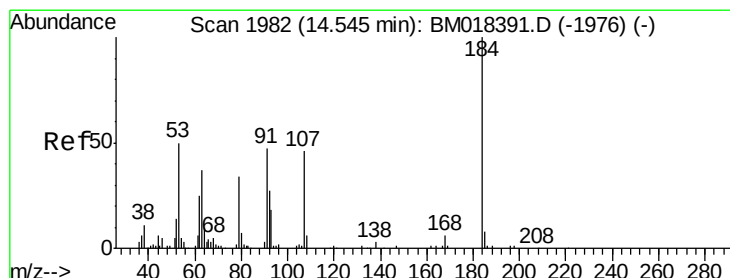
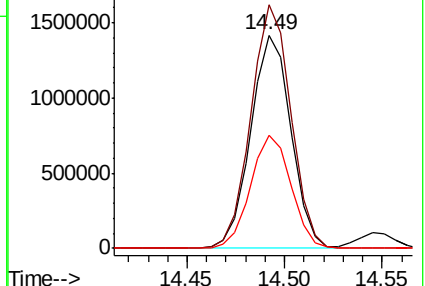
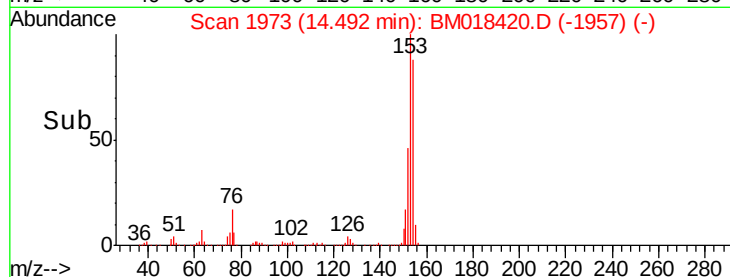
152 53.1 43.8 65.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

2,4-Dinitrophenol

Concen: 37.851 ng

RT: 14.54 min Scan# 1982

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

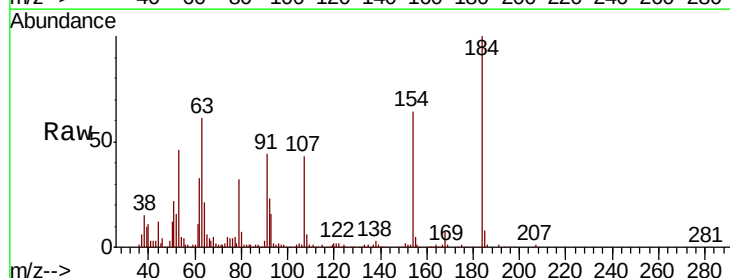
Tgt Ion:184 Resp: 229555

Ion Ratio Lower Upper

184 100

63 61.1 55.9 83.9

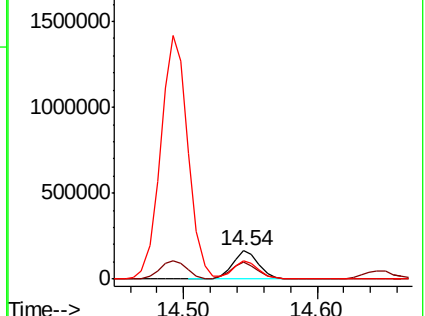
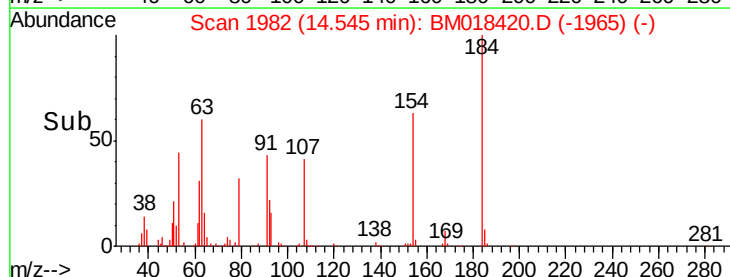
154 64.2 54.2 81.4



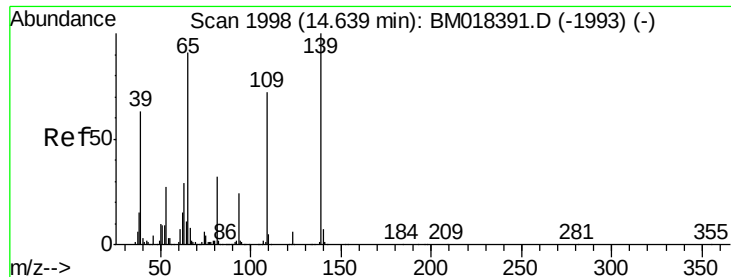
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 154.00 (153.70 to 154.70): E







#56

4-Nitrophenol

Concen: 16.419 ng

RT: 14.64 min Scan# 1999

Delta R.T. 0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

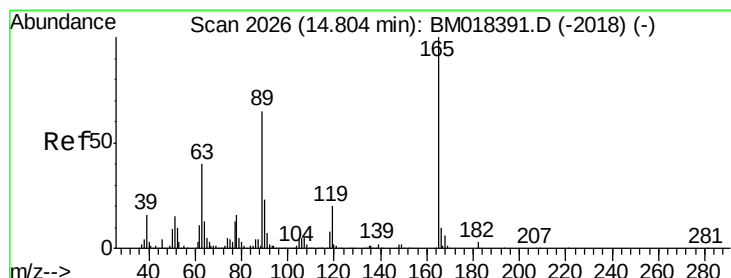
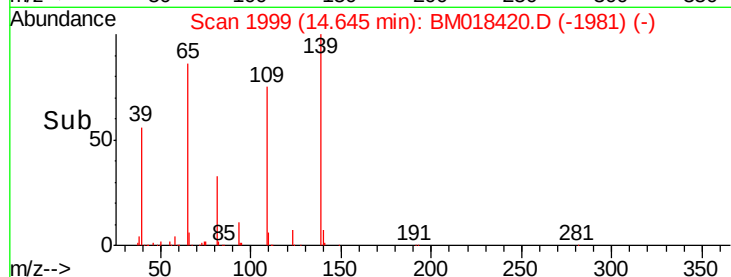
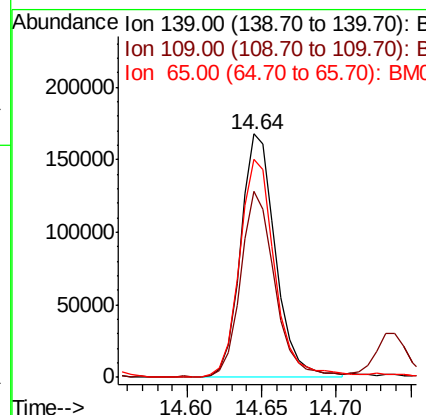
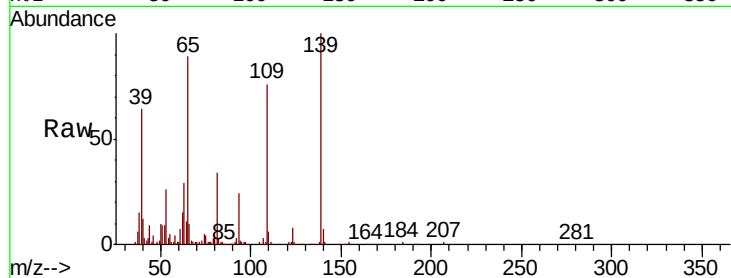
Tgt Ion:139 Resp: 271349

Ion Ratio Lower Upper

139 100

109 76.2 51.7 91.7

65 89.4 71.4 111.4



#57

2,4-Dinitrotoluene

Concen: 31.438 ng

RT: 14.80 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Tgt Ion:165 Resp: 1040779

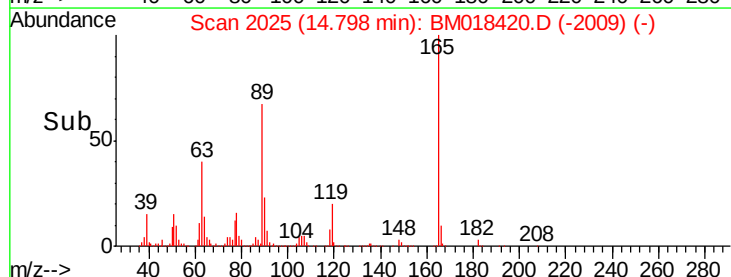
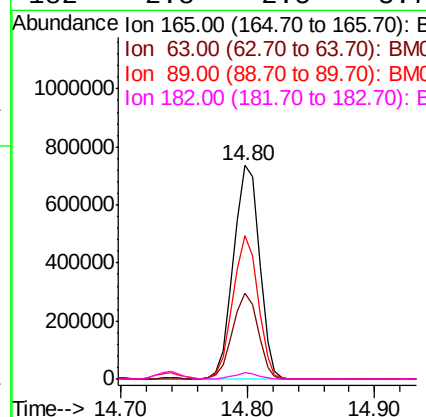
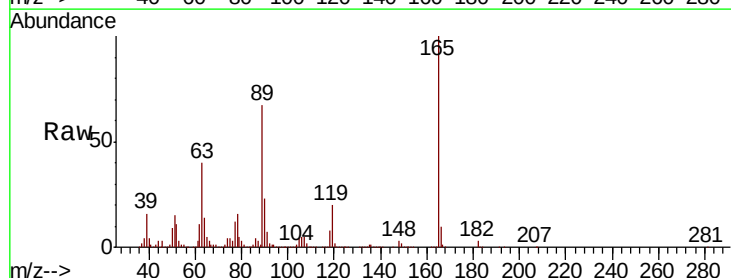
Ion Ratio Lower Upper

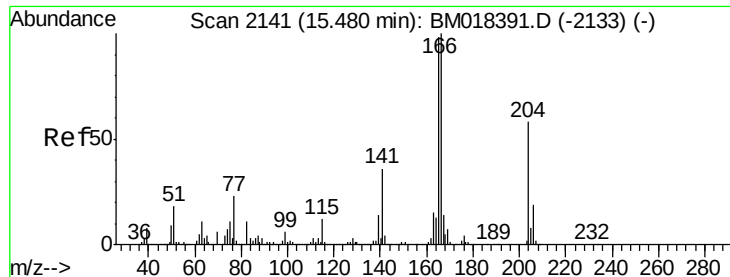
165 100

63 40.4 32.2 48.2

89 67.0 52.1 78.1

182 2.8 2.5 3.7





#58

Fluorene

Concen: 26.862 ng

RT: 15.48 min Scan# 2141

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

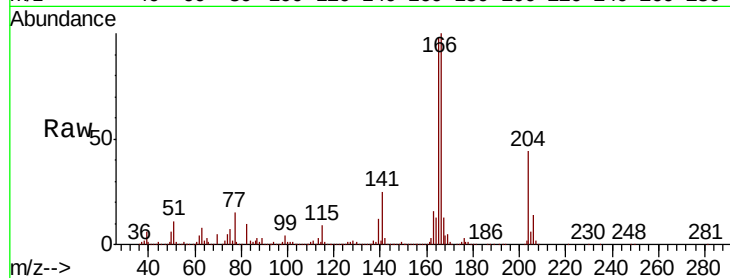
Tgt Ion:166 Resp: 2905029

Ion Ratio Lower Upper

166 100

165 97.5 78.3 117.5

167 13.4 10.9 16.3

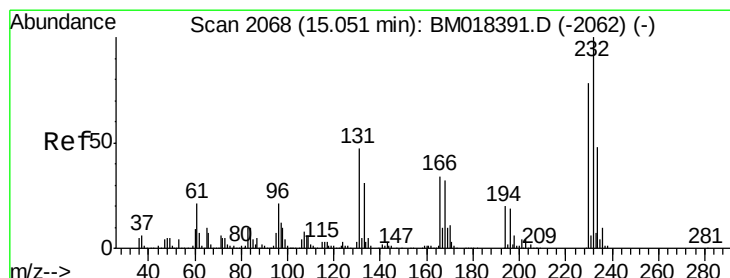
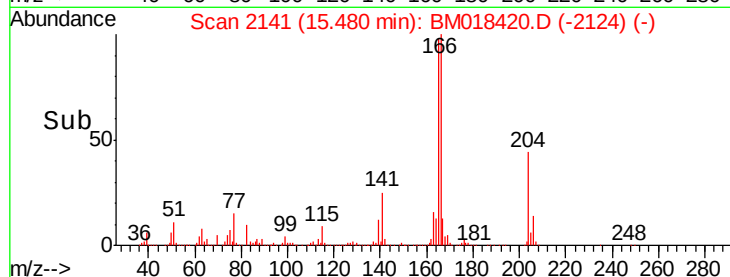
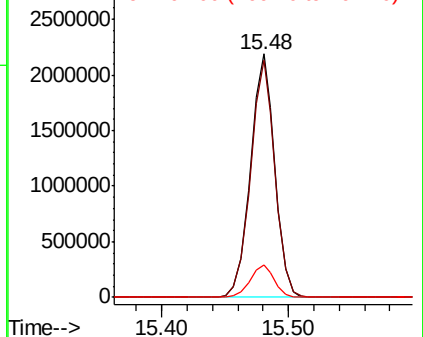


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#59

2,3,4,6-Tetrachlorophenol

Concen: 30.647 ng

RT: 15.05 min Scan# 2068

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Tgt Ion:232 Resp: 767500

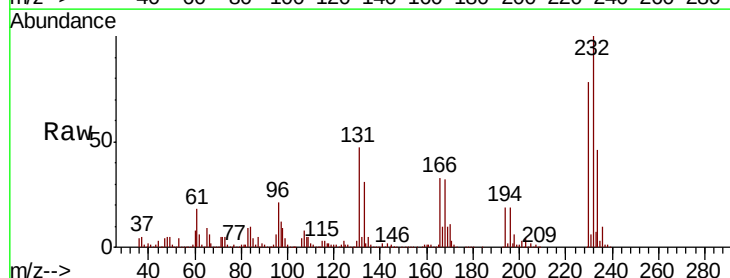
Ion Ratio Lower Upper

232 100

131 47.5 38.6 57.8

130 2.6 2.2 3.4

166 33.0 27.2 40.8



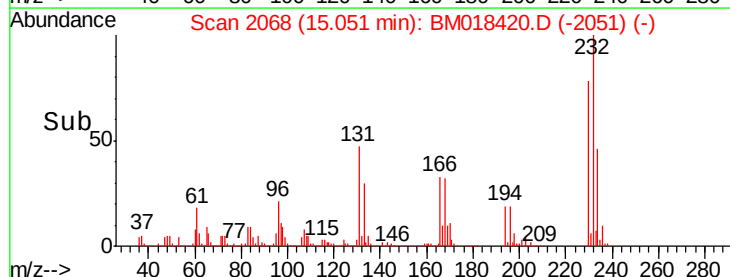
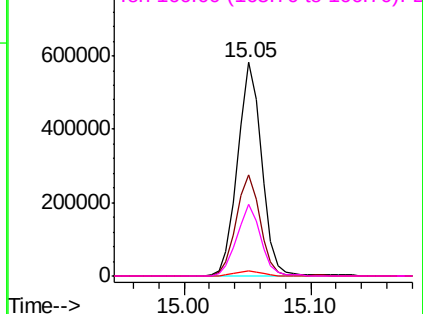
Abundance

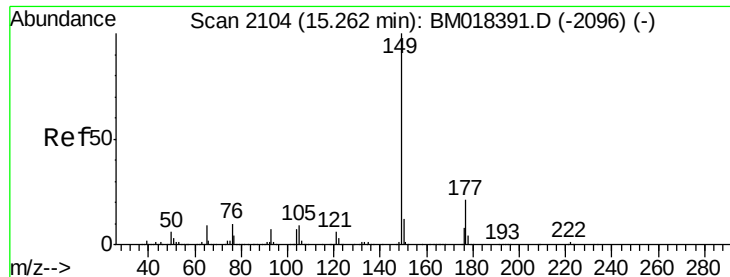
Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E

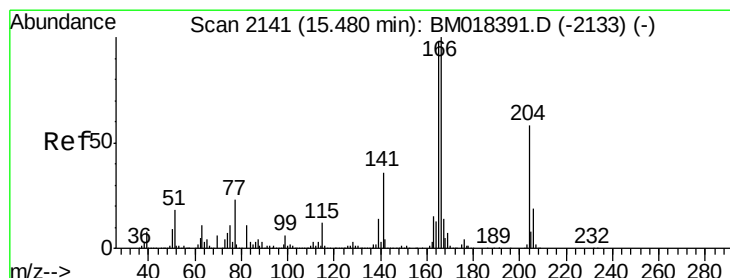
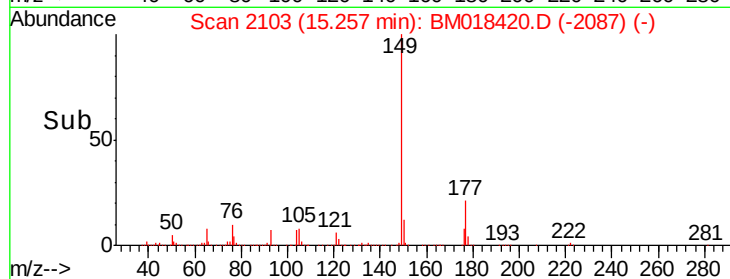
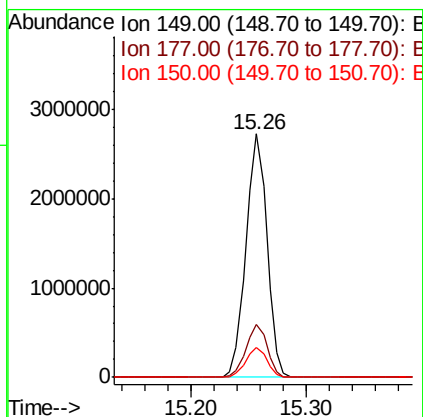
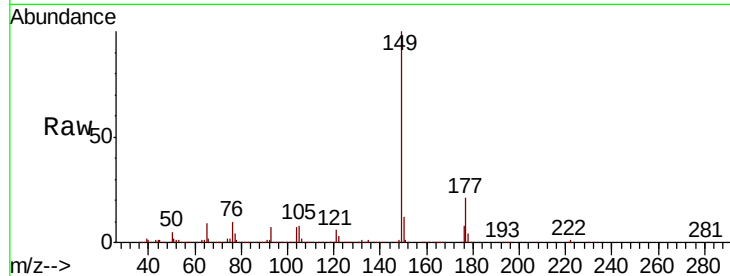




#60  
Diethylphthalate  
Concen: 28.280 ng  
RT: 15.26 min Scan# 2103  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

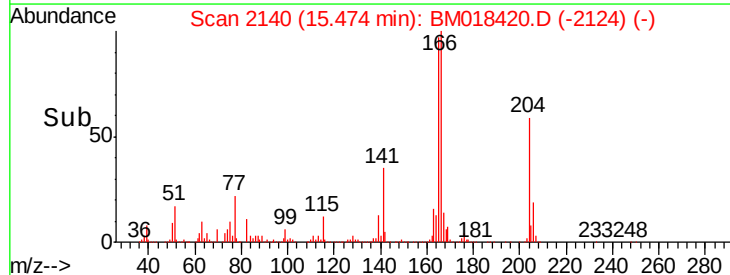
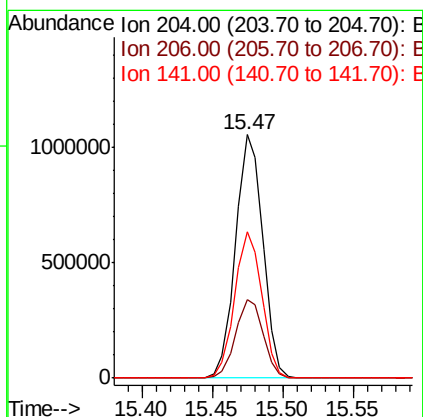
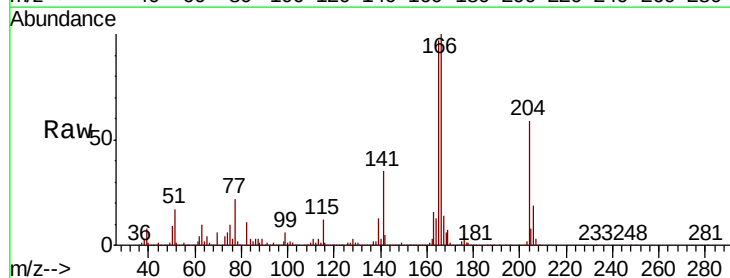
Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

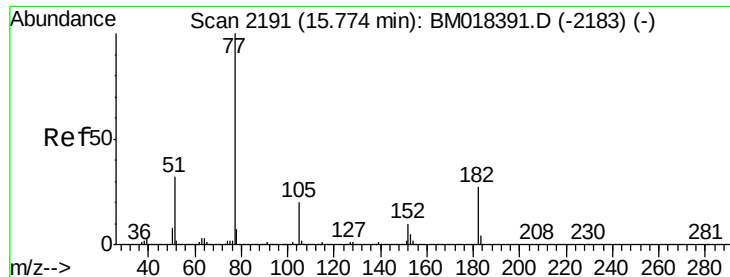
Tgt Ion:149 Resp: 3448444  
Ion Ratio Lower Upper  
149 100  
177 21.5 17.1 25.7  
150 12.5 9.8 14.6



#61  
4-Chlorophenyl-phenylether  
Concen: 23.894 ng  
RT: 15.47 min Scan# 2140  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Tgt Ion:204 Resp: 1419703  
Ion Ratio Lower Upper  
204 100  
206 32.3 25.8 38.6  
141 60.1 49.5 74.3





#63

Azobenzene

Concen: 24.294 ng

RT: 15.77 min Scan# 2190

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

Tgt Ion: 77 Resp: 2699979

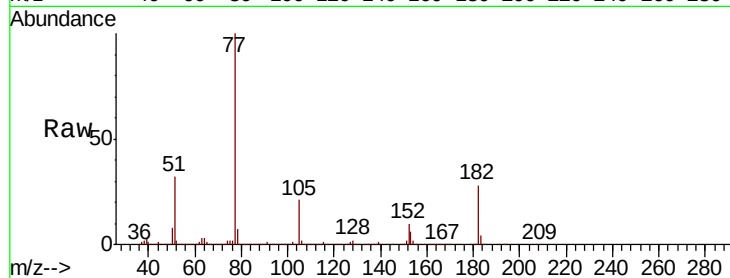
Ion Ratio Lower Upper

77 100

182 27.9 7.4 47.4

105 20.8 0.0 39.6

51 32.3 12.0 52.0



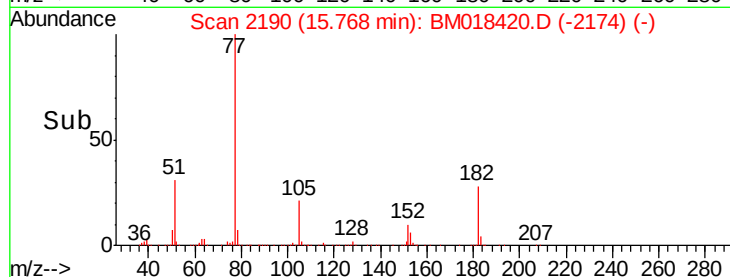
Abundance Ion 77.00 (76.70 to 77.70): BM0

Ion 182.00 (181.70 to 182.70): E

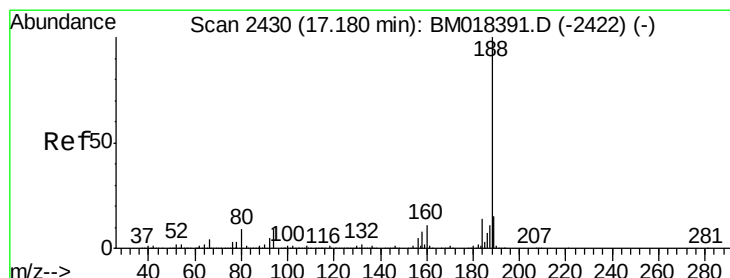
Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BM0

Time-->



Time-->



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.18 min Scan# 2430

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

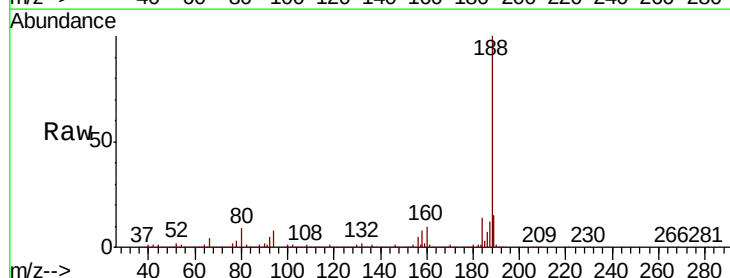
Tgt Ion: 188 Resp: 3185701

Ion Ratio Lower Upper

188 100

94 8.3 7.1 10.7

80 8.9 7.6 11.4

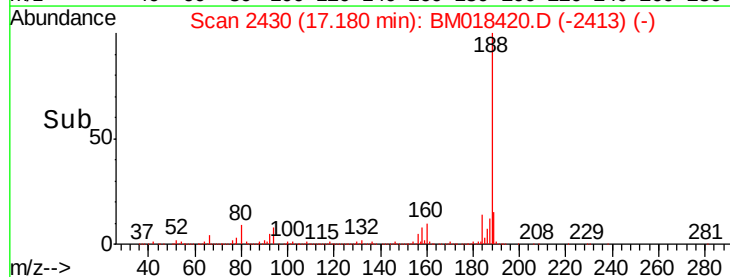


Abundance Ion 188.00 (187.70 to 188.70): E

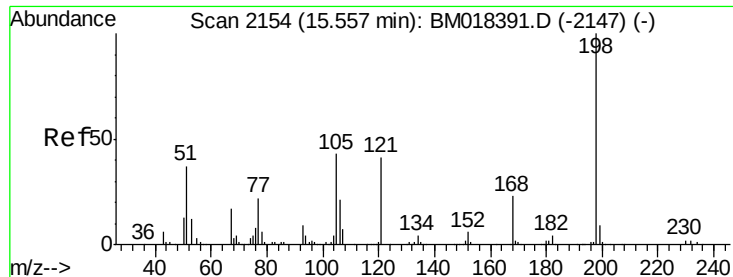
Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

Time-->



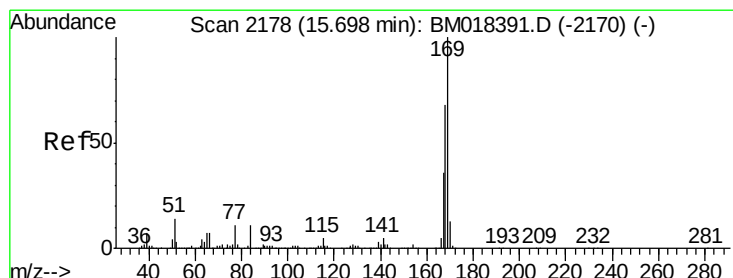
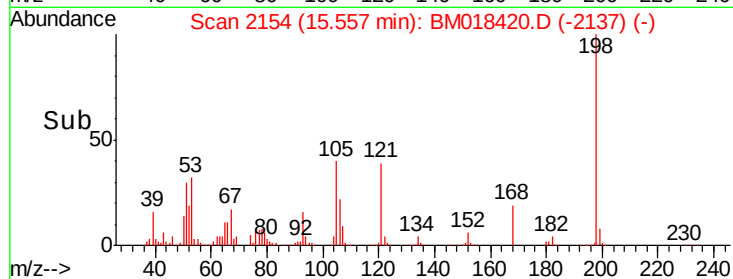
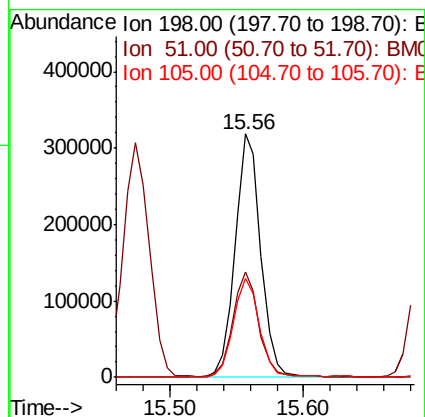
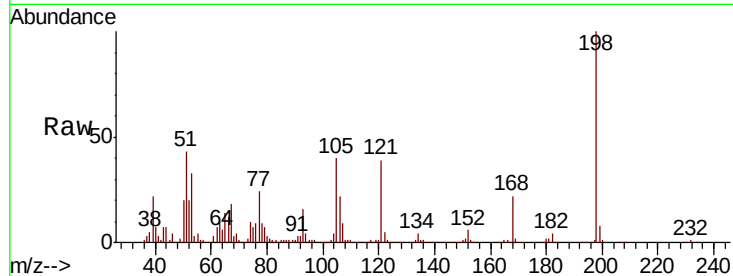
Time-->



#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 35.616 ng  
 RT: 15.56 min Scan# 2154  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

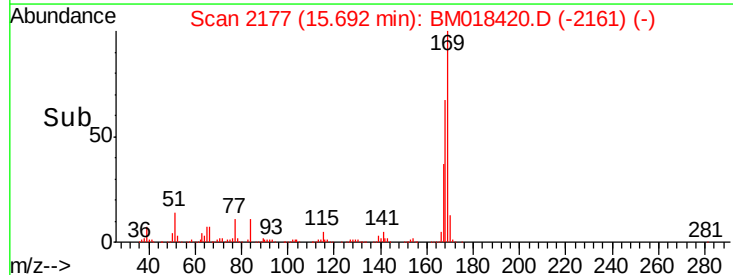
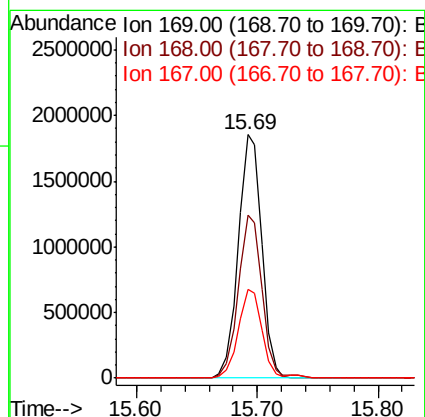
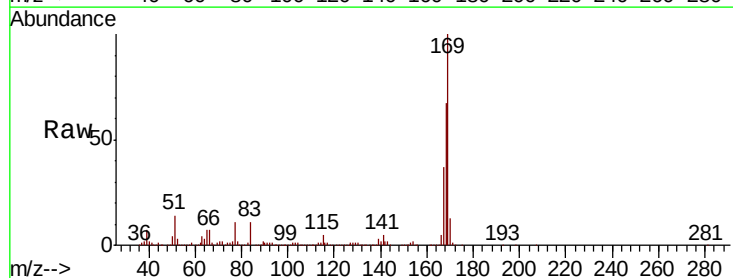
Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

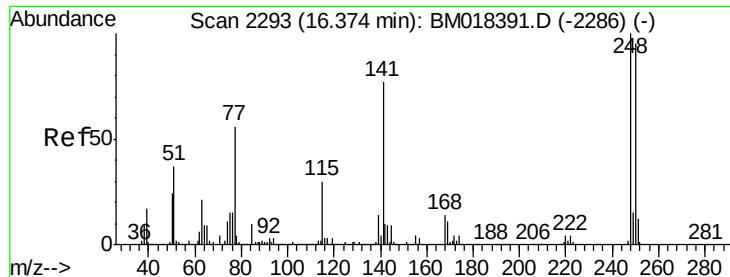
Tgt Ion:198 Resp: 426140  
 Ion Ratio Lower Upper  
 198 100  
 51 43.1 29.6 69.6  
 105 40.5 25.5 65.5



#66  
 n-Nitrosodiphenylamine  
 Concen: 25.238 ng  
 RT: 15.69 min Scan# 2177  
 Delta R.T. -0.01 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Tgt Ion:169 Resp: 2505810  
 Ion Ratio Lower Upper  
 169 100  
 168 66.8 54.1 81.1  
 167 36.5 28.6 42.8

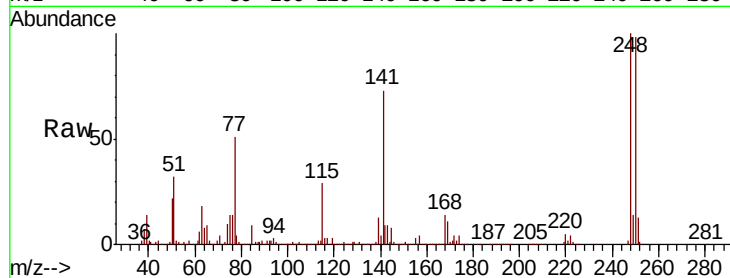




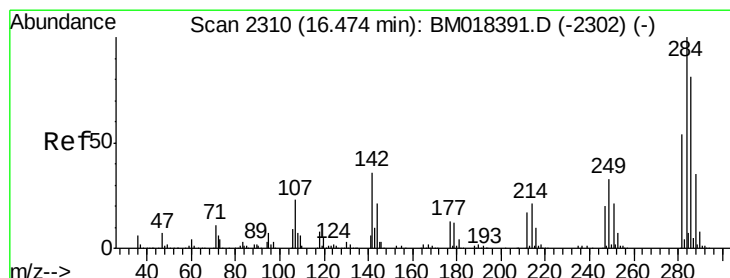
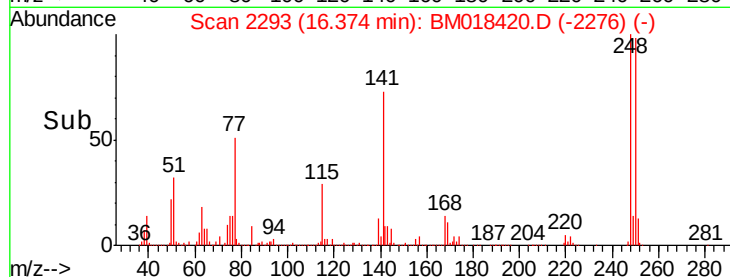
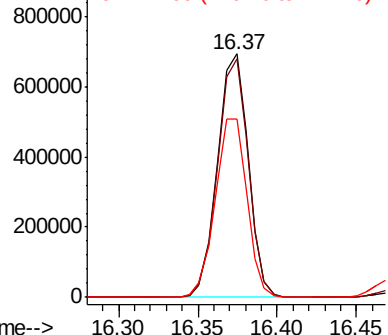
#67  
4-Bromophenyl-phenylether  
Concen: 27.029 ng  
RT: 16.37 min Scan# 2293  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

Tgt Ion:248 Resp: 937673  
Ion Ratio Lower Upper  
248 100  
250 98.1 76.0 114.0  
141 73.3 61.5 92.3

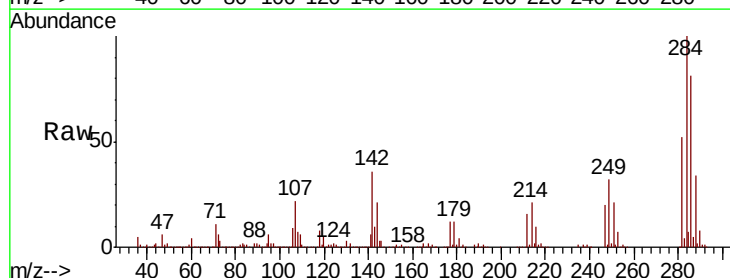


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

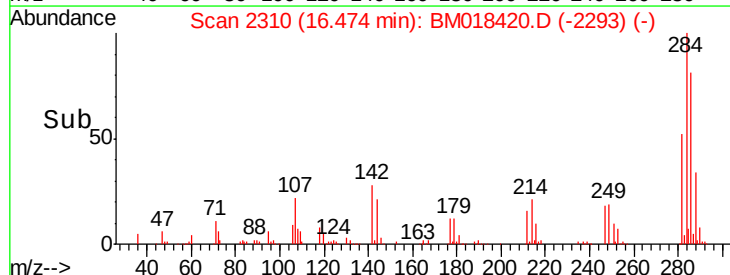
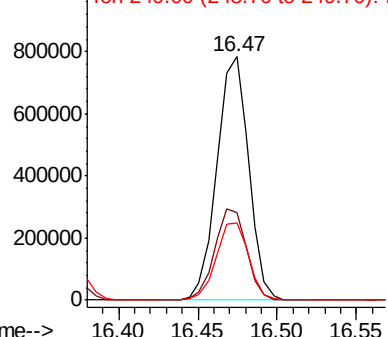


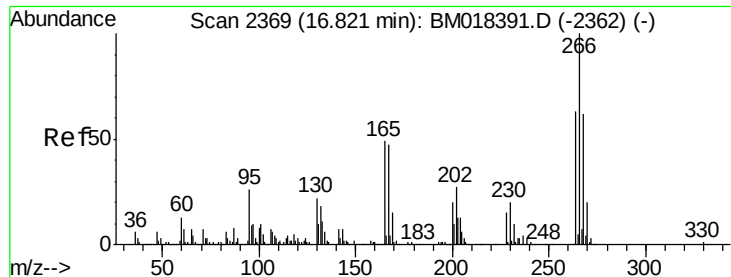
#68  
Hexachlorobenzene  
Concen: 27.743 ng  
RT: 16.47 min Scan# 2310  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Tgt Ion:284 Resp: 1090240  
Ion Ratio Lower Upper  
284 100  
142 35.7 29.2 43.8  
249 31.7 26.1 39.1



Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

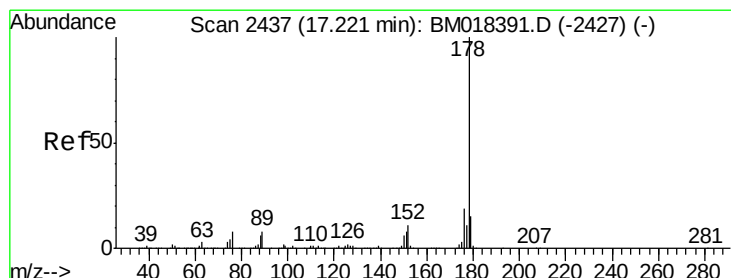
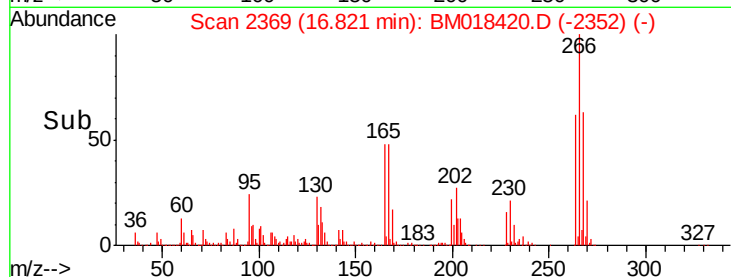
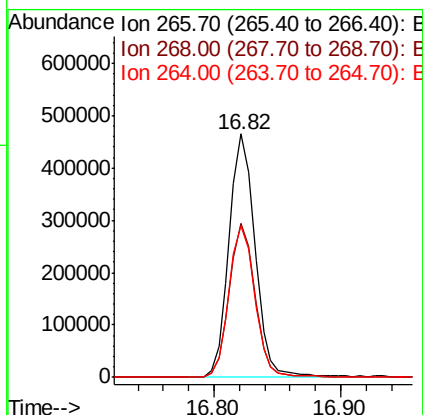
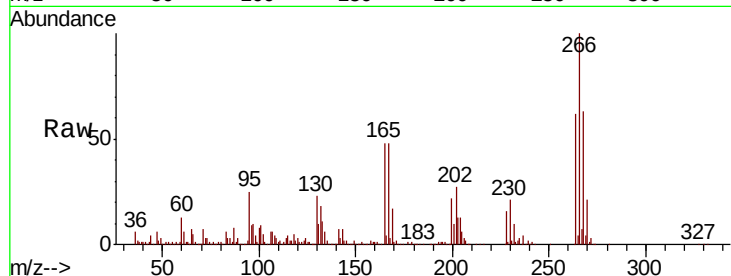




#70  
 Pentachlorophenol  
 Concen: 28.959 ng  
 RT: 16.82 min Scan# 2369  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

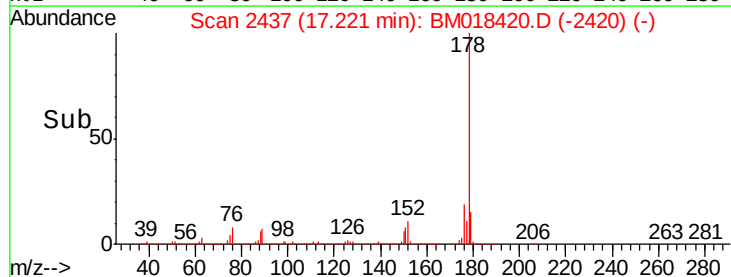
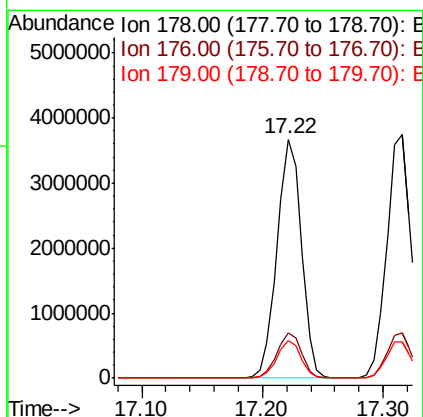
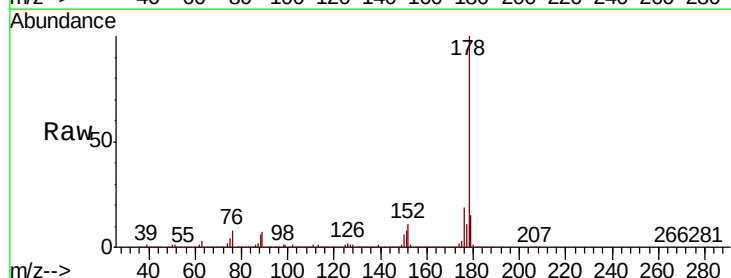
Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

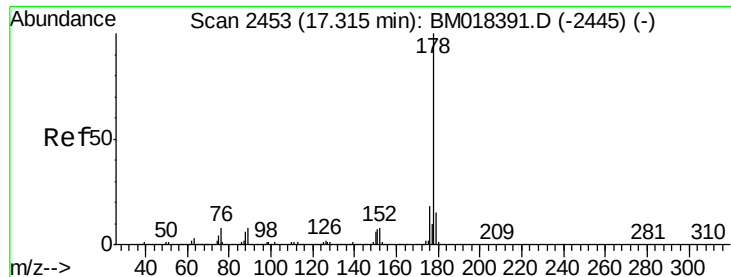
Tgt Ion: 266 Resp: 663591  
 Ion Ratio Lower Upper  
 266 100  
 268 63.5 49.8 74.6  
 264 62.1 50.1 75.1



#71  
 Phenanthrene  
 Concen: 30.252 ng  
 RT: 17.22 min Scan# 2437  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Tgt Ion: 178 Resp: 5101543  
 Ion Ratio Lower Upper  
 178 100  
 176 18.9 15.4 23.0  
 179 15.5 12.2 18.4





#72

Anthracene

Concen: 31.142 ng

RT: 17.32 min Scan# 2453

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

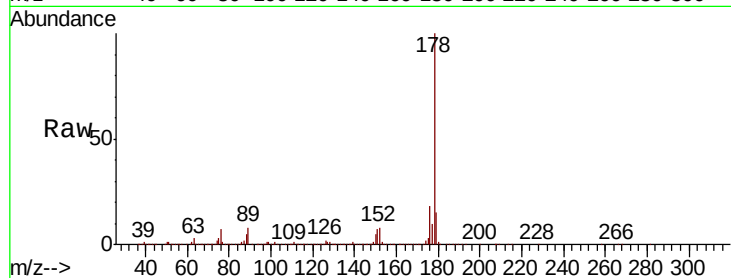
Tgt Ion:178 Resp: 5231611

Ion Ratio Lower Upper

178 100

176 18.5 14.7 22.1

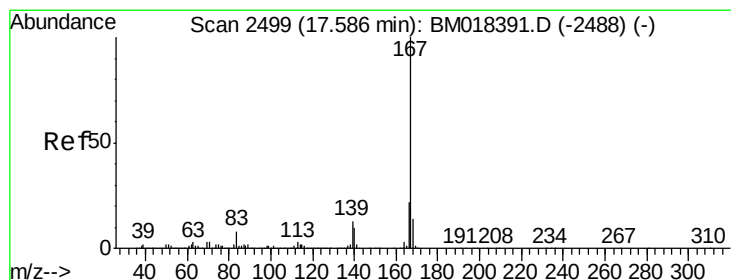
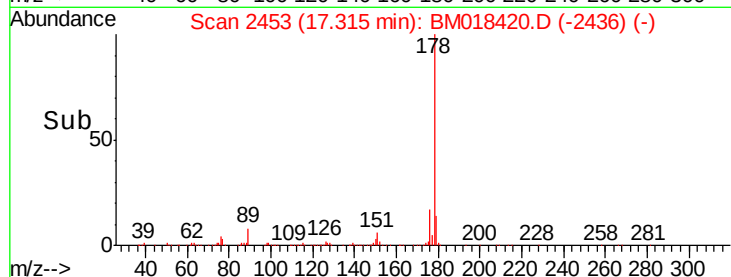
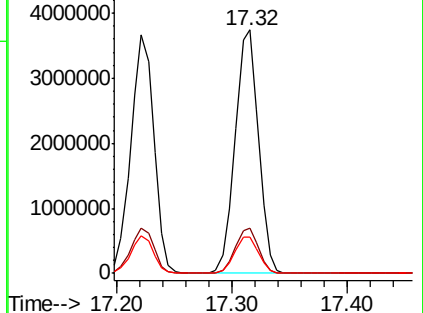
179 15.1 12.2 18.4



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



#73

Carbazole

Concen: 29.225 ng

RT: 17.59 min Scan# 2499

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

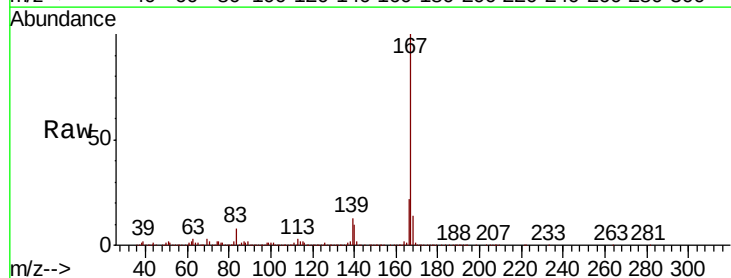
Tgt Ion:167 Resp: 5156264

Ion Ratio Lower Upper

167 100

166 21.6 17.4 26.2

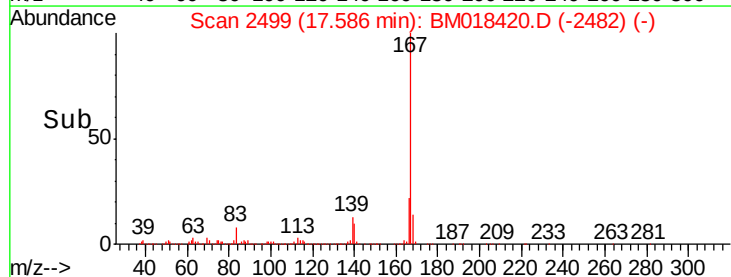
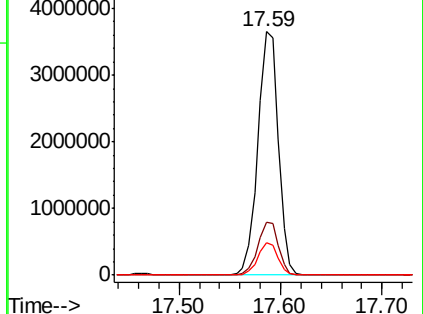
139 13.3 10.6 16.0



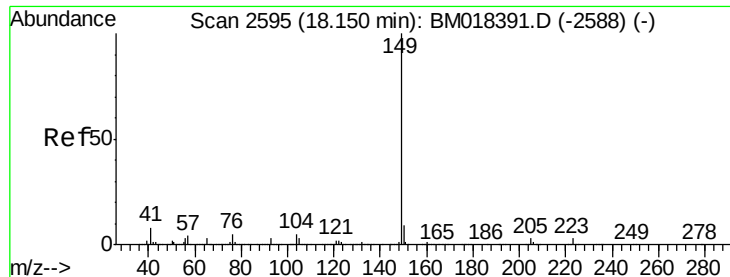
Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



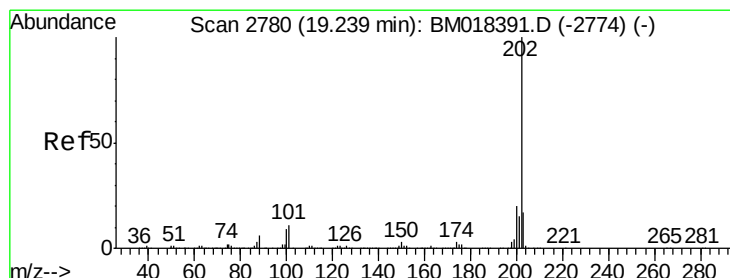
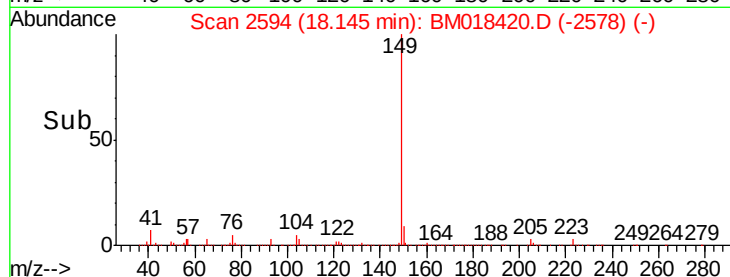
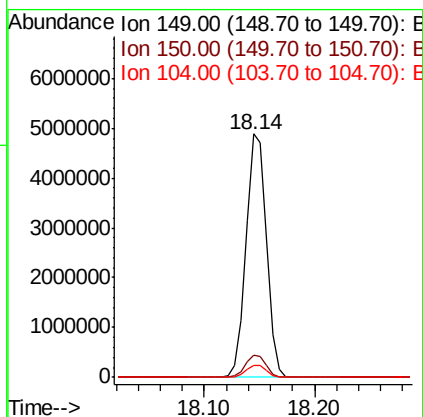
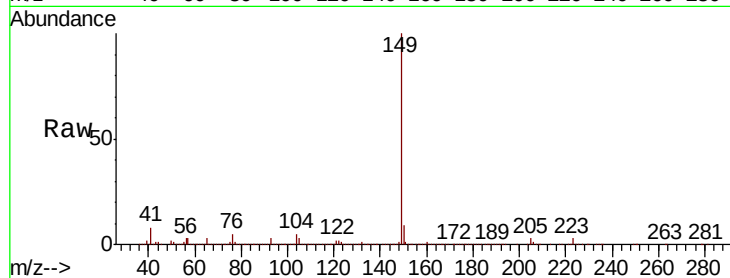




#74  
Di-n-butylphthalate  
Concen: 31.702 ng  
RT: 18.14 min Scan# 2594  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

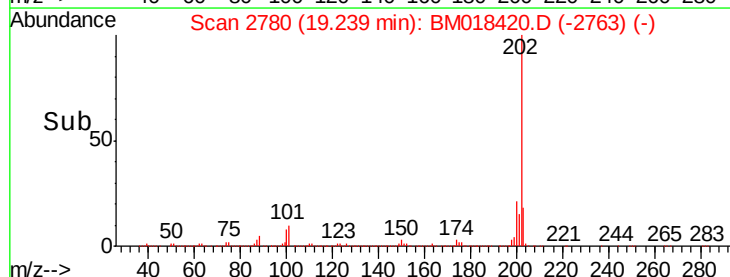
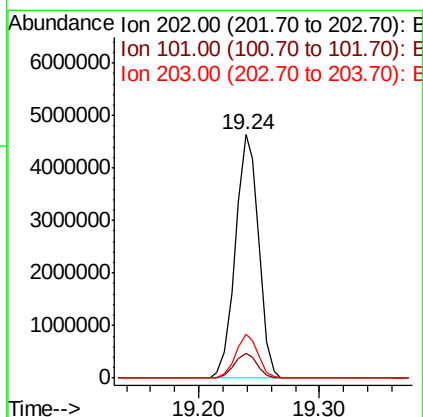
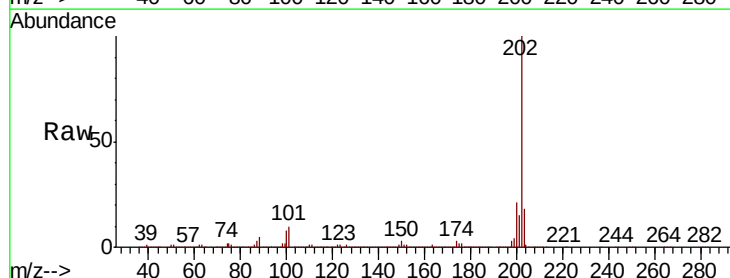
Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

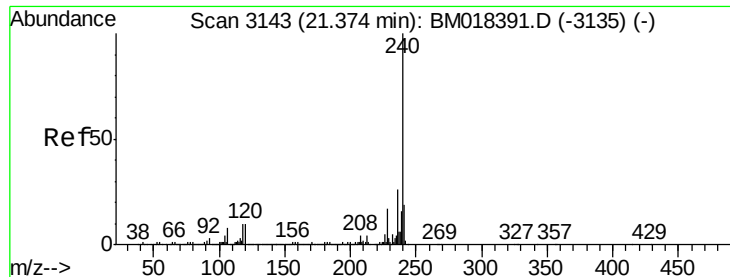
Tgt Ion:149 Resp: 6357132  
Ion Ratio Lower Upper  
149 100  
150 9.4 7.3 10.9  
104 5.1 4.2 6.4



#75  
Fluoranthene  
Concen: 31.007 ng  
RT: 19.24 min Scan# 2780  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Tgt Ion:202 Resp: 6192613  
Ion Ratio Lower Upper  
202 100  
101 10.4 0.0 30.9  
203 17.8 0.0 37.4

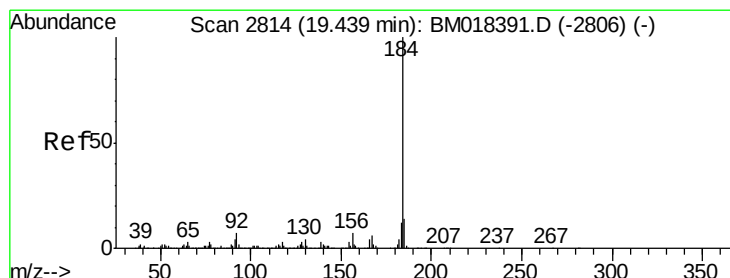
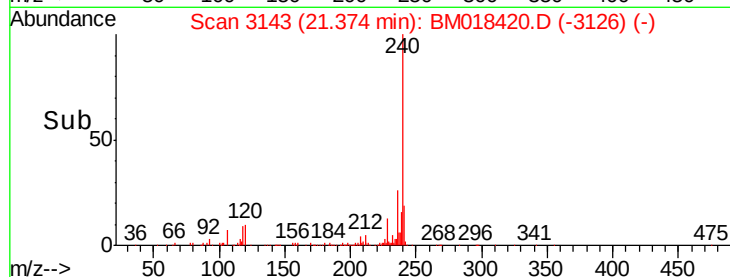
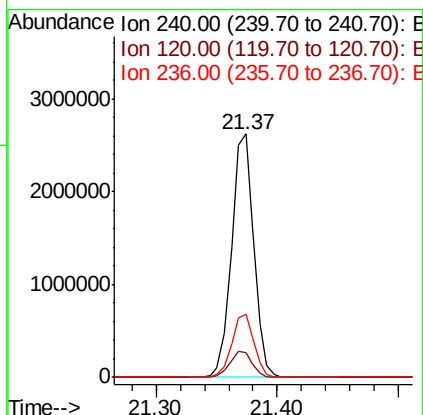
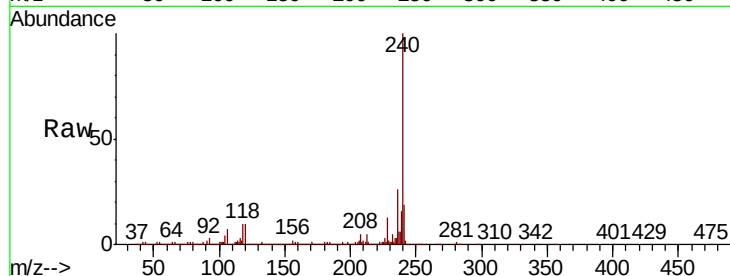




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.37 min Scan# 3143  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

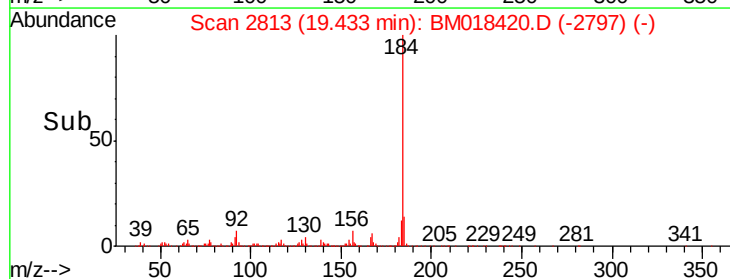
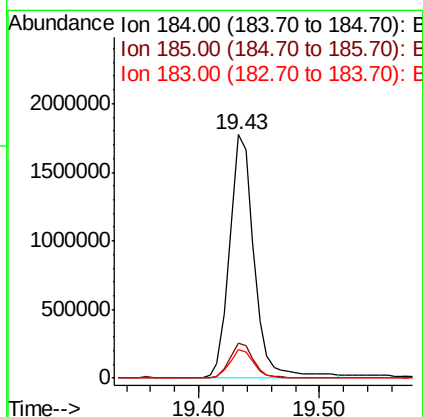
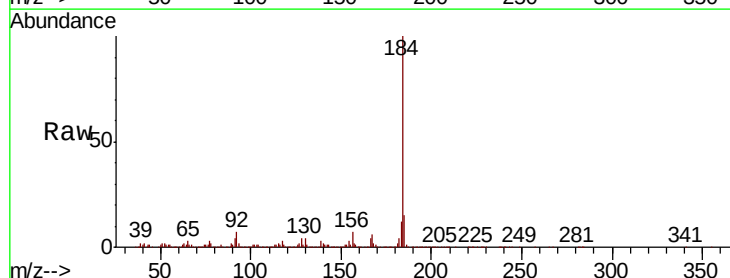
Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

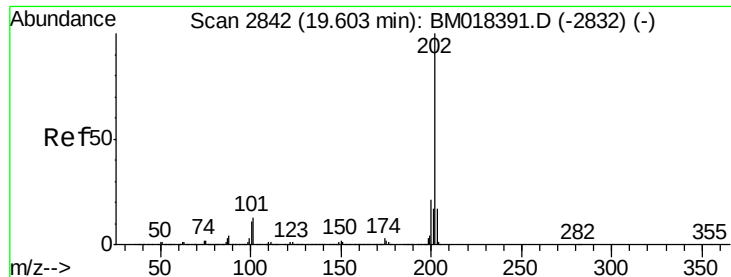
Tgt Ion:240 Resp: 3348267  
Ion Ratio Lower Upper  
240 100  
120 10.4 8.4 12.6  
236 26.1 20.7 31.1



#77  
Benzidine  
Concen: 26.261 ng  
RT: 19.43 min Scan# 2813  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Tgt Ion:184 Resp: 2513341  
Ion Ratio Lower Upper  
184 100  
185 14.6 11.4 17.0  
183 11.8 9.5 14.3

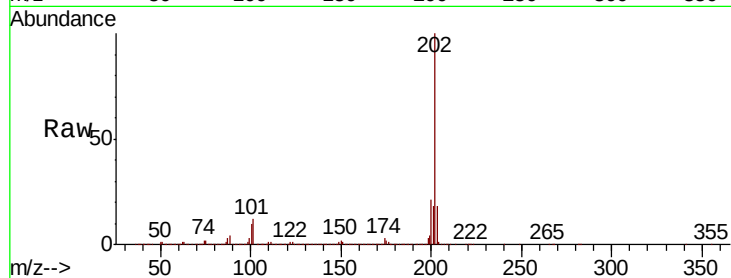




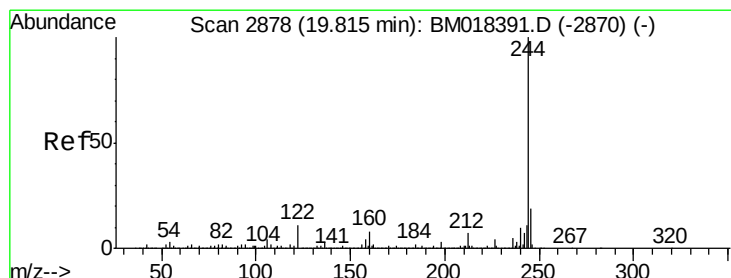
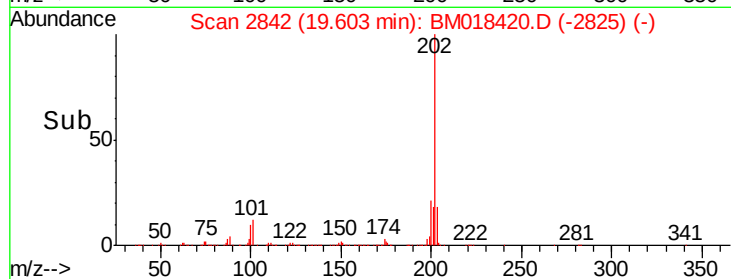
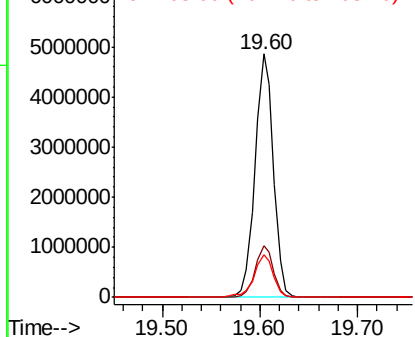
#78  
 Pyrene  
 Concen: 33.197 ng  
 RT: 19.60 min Scan# 2842  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

Tgt Ion:202 Resp: 6451926  
 Ion Ratio Lower Upper  
 202 100  
 200 21.0 16.6 24.8  
 203 17.7 13.8 20.8

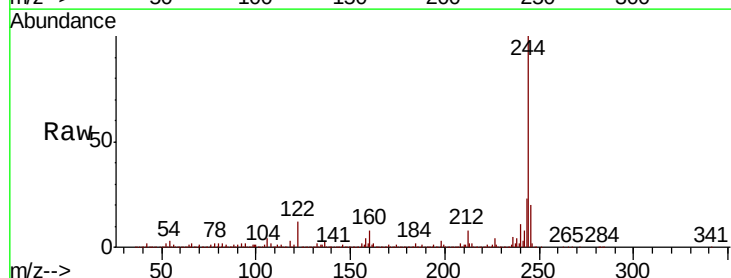


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E

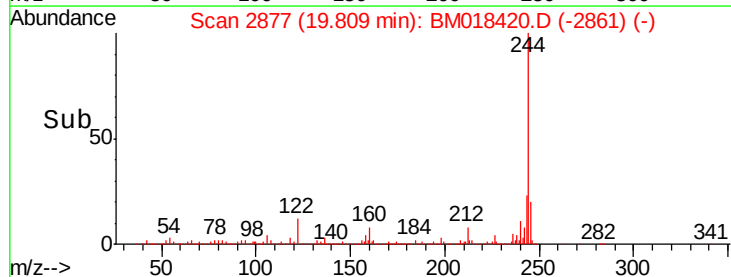
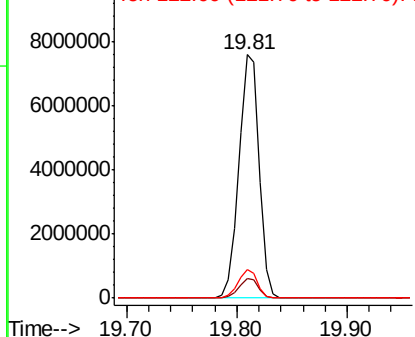


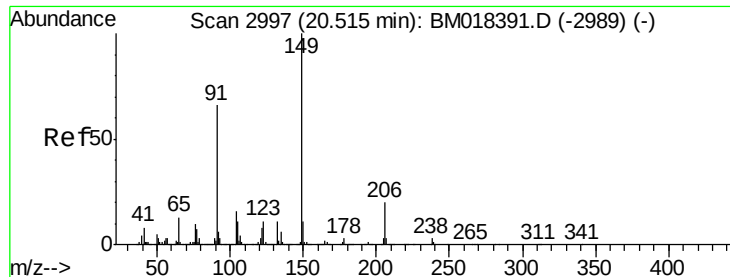
#79  
 Terphenyl-d14  
 Concen: 62.182 ng  
 RT: 19.81 min Scan# 2877  
 Delta R.T. -0.01 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Tgt Ion:244 Resp: 9770702  
 Ion Ratio Lower Upper  
 244 100  
 212 7.9 5.9 8.9  
 122 11.6 9.0 13.4



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

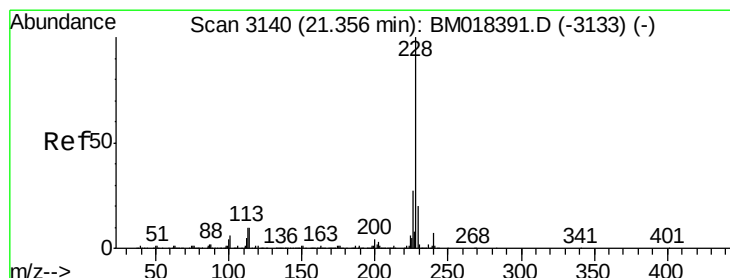
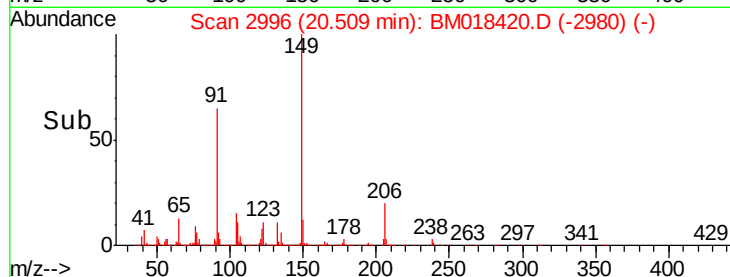
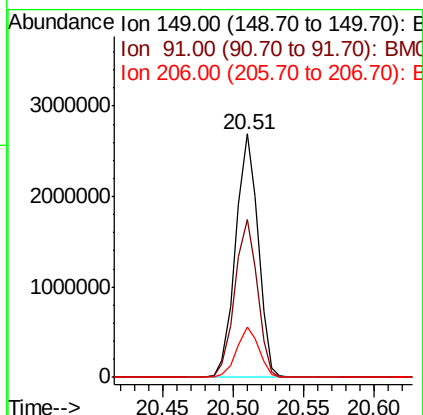
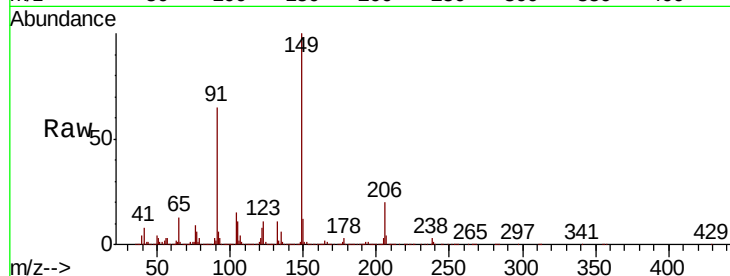




#80  
Butylbenzylphthalate  
Concen: 35.826 ng  
RT: 20.51 min Scan# 2996  
Delta R.T. -0.01 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

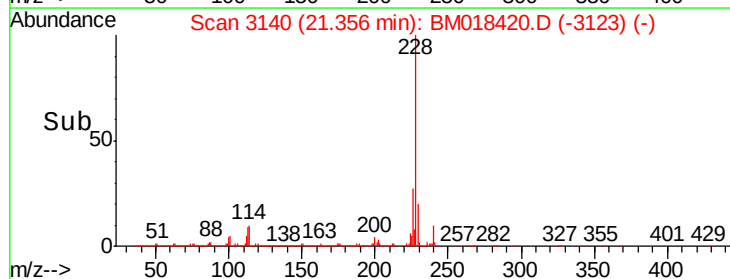
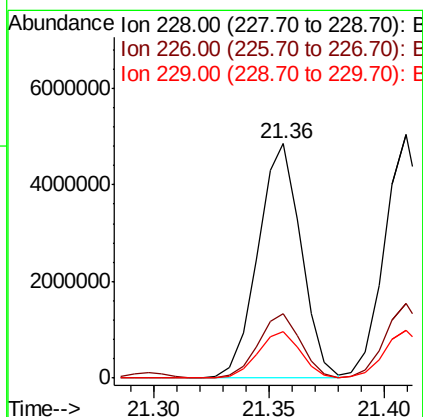
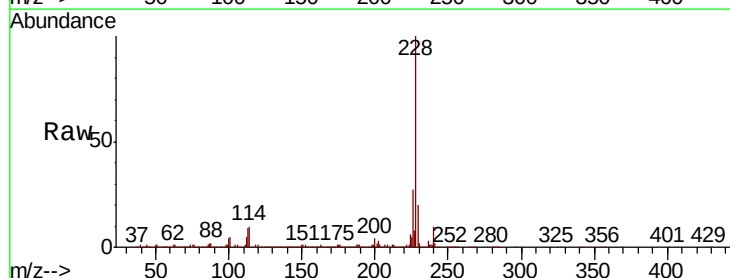
Instrument :  
BNA\_M  
ClientSampleId :  
381211744-2MSD

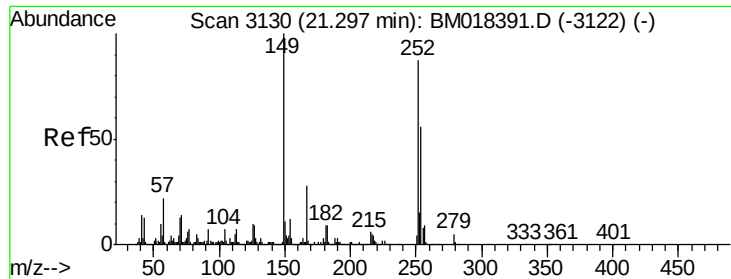
Tgt Ion:149 Resp: 2985400  
Ion Ratio Lower Upper  
149 100  
91 65.0 53.1 79.7  
206 20.5 16.2 24.4



#81  
Benzo(a)anthracene  
Concen: 31.913 ng  
RT: 21.36 min Scan# 3140  
Delta R.T. 0.00 min  
Lab File: BM018420.D  
Acq: 28 Dec 2018 06:03

Tgt Ion:228 Resp: 6276034  
Ion Ratio Lower Upper  
228 100  
226 27.3 21.8 32.6  
229 20.0 15.8 23.8

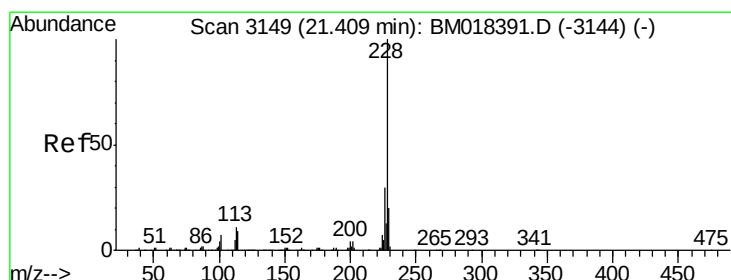
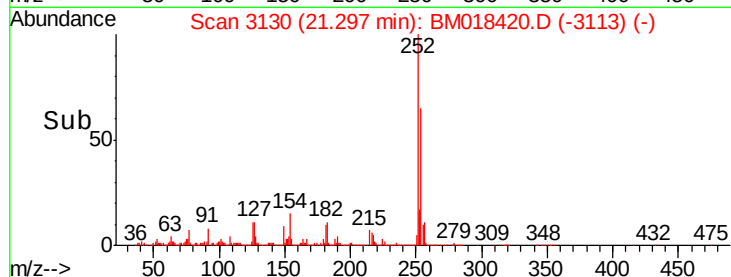
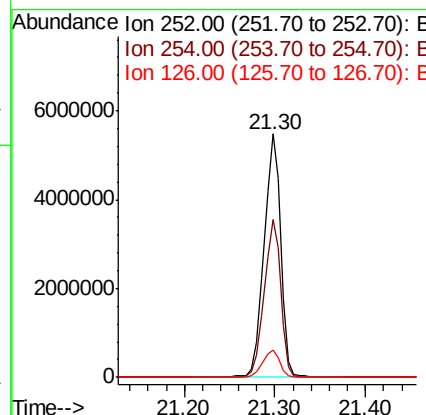
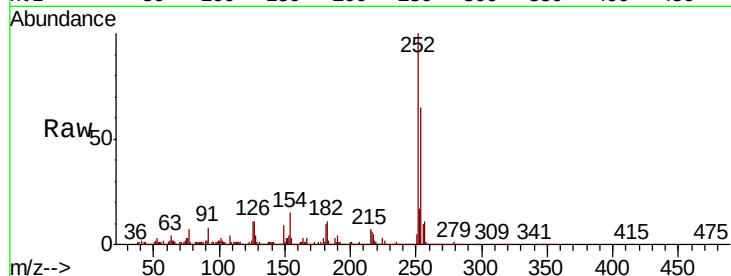




#82  
 3,3'-Dichlorobenzidine  
 Concen: 92.596 ng  
 RT: 21.30 min Scan# 3130  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

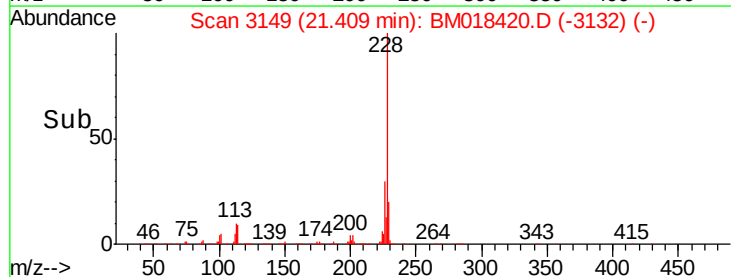
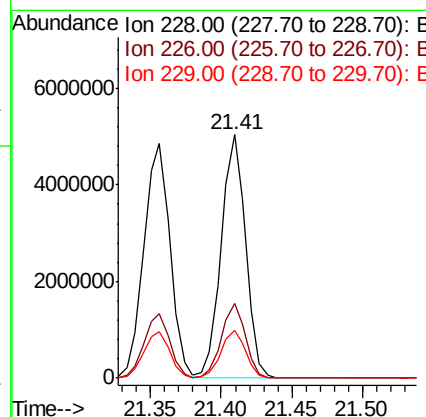
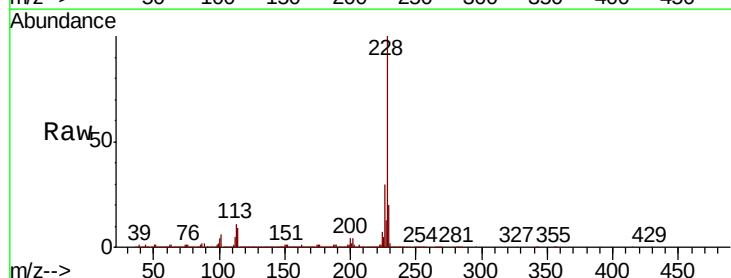
Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

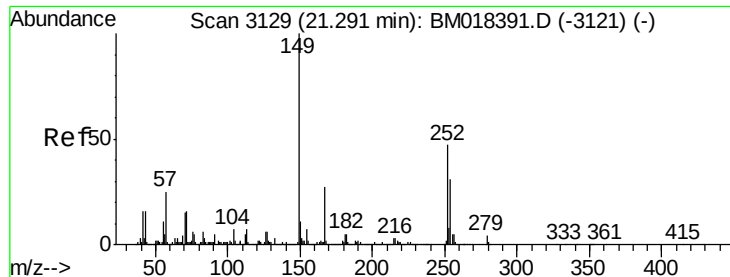
Tgt Ion:252 Resp: 6996013  
 Ion Ratio Lower Upper  
 252 100  
 254 64.6 51.4 77.0  
 126 11.4 8.7 13.1



#83  
 Chrysene  
 Concen: 31.722 ng  
 RT: 21.41 min Scan# 3149  
 Delta R.T. 0.00 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Tgt Ion:228 Resp: 6018599  
 Ion Ratio Lower Upper  
 228 100  
 226 30.4 24.2 36.2  
 229 19.8 15.6 23.4





#84

Bis(2-ethylhexyl)phthalate

Concen: 41.388 ng

RT: 21.28 min Scan# 3127

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

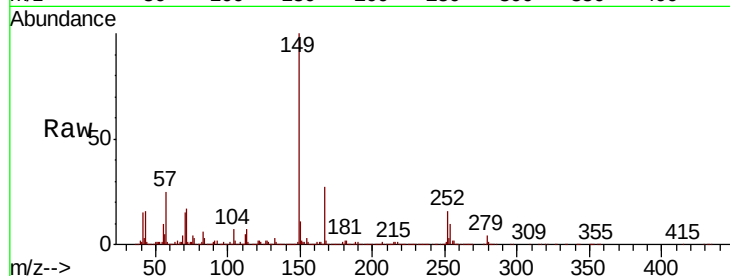
Tgt Ion:149 Resp: 5422529

Ion Ratio Lower Upper

149 100

167 27.1 21.6 32.4

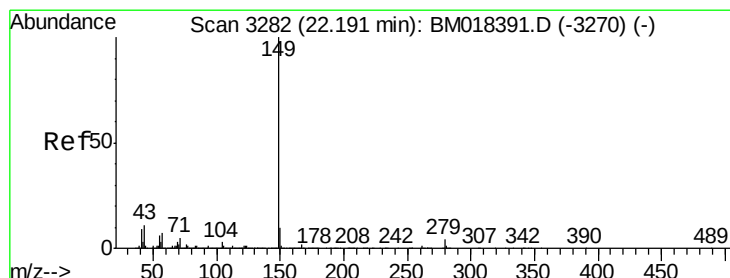
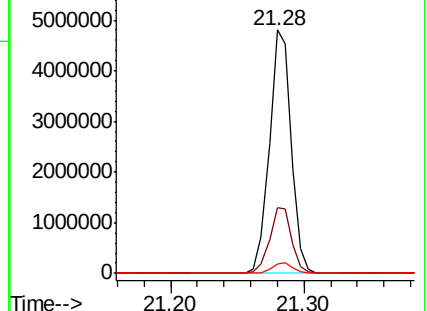
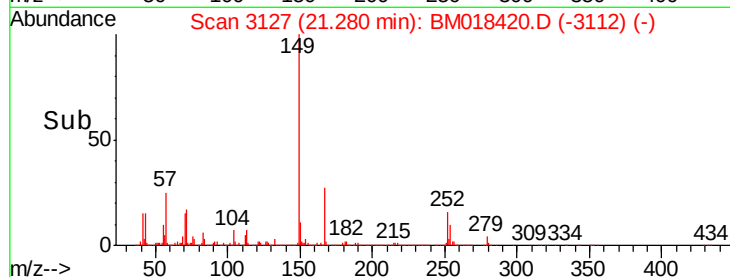
279 3.7 3.3 4.9



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Di-n-octyl phthalate

Concen: 34.720 ng

RT: 22.18 min Scan# 3280

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

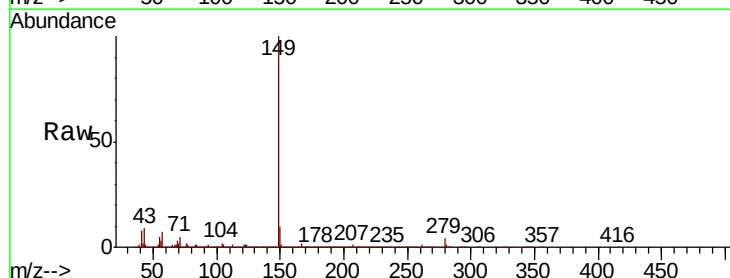
Tgt Ion:149 Resp: 7519118

Ion Ratio Lower Upper

149 100

167 1.6 1.3 1.9

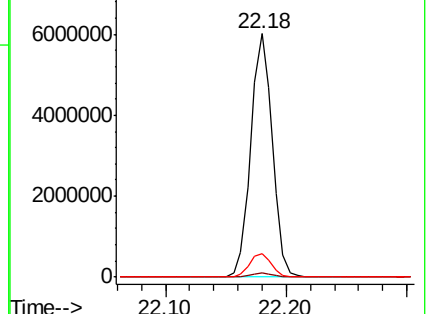
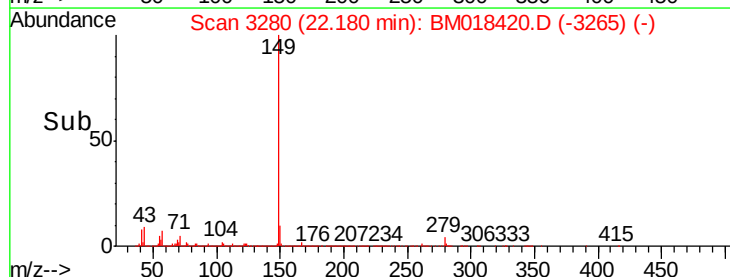
43 9.7 8.6 12.8

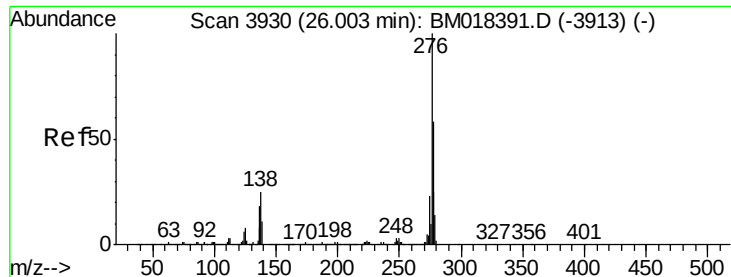


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BM





#86

Indeno(1,2,3-cd)pyrene

Concen: 24.826 ng

RT: 26.00 min Scan# 3929

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

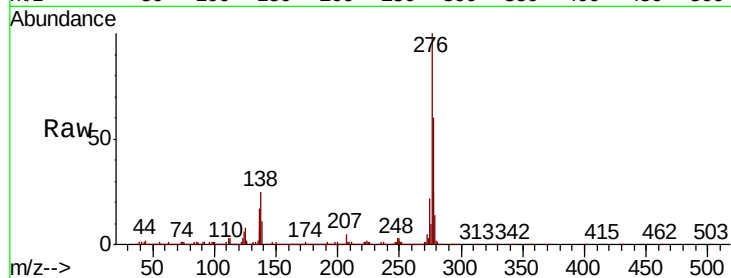
Tgt Ion:276 Resp: 5830390

Ion Ratio Lower Upper

276 100

138 26.1 21.5 32.3

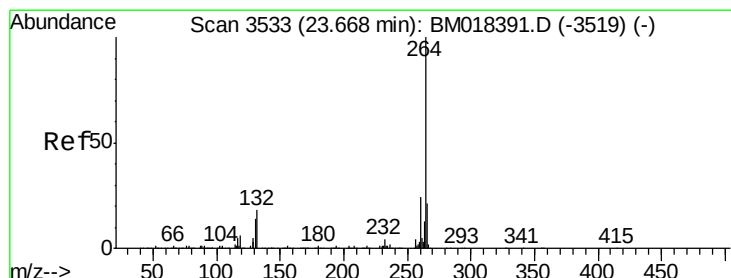
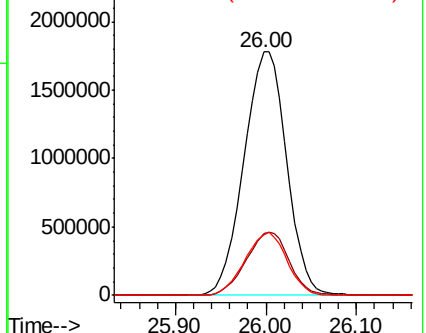
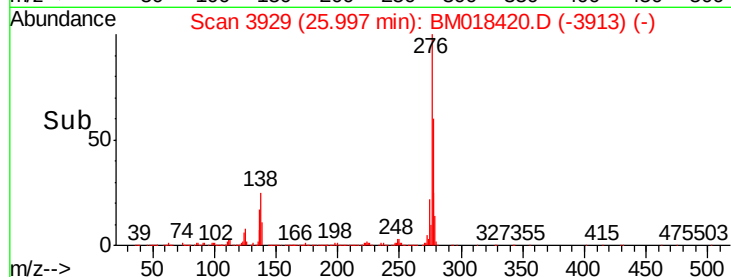
277 25.4 20.2 30.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 23.66 min Scan# 3532

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

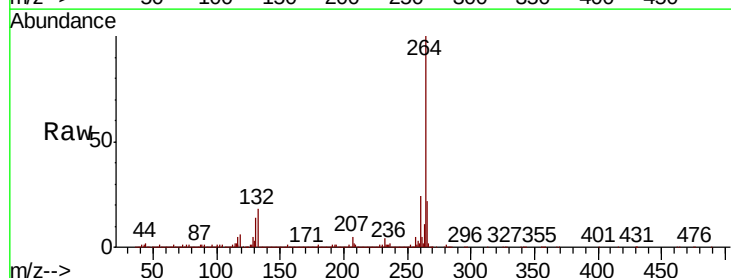
Tgt Ion:264 Resp: 3221881

Ion Ratio Lower Upper

264 100

260 24.1 18.9 28.3

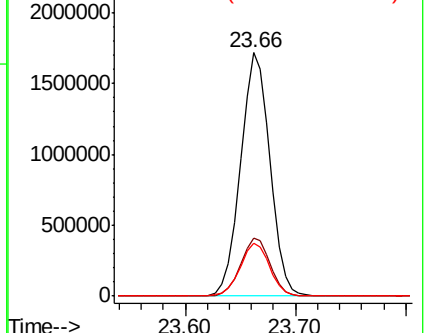
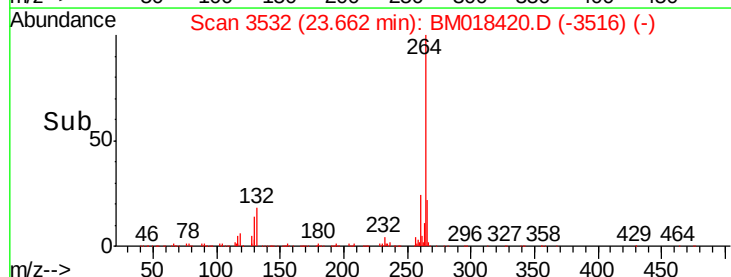
265 21.8 16.8 25.2

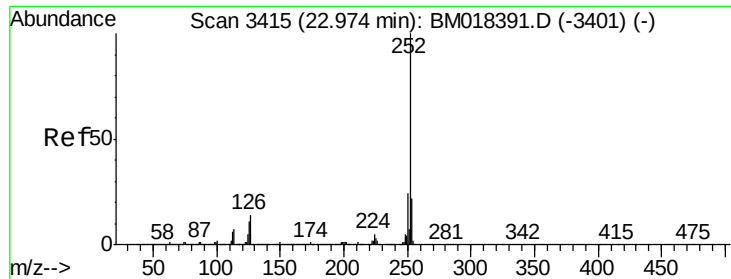


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 35.371 ng

RT: 22.97 min Scan# 3415

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

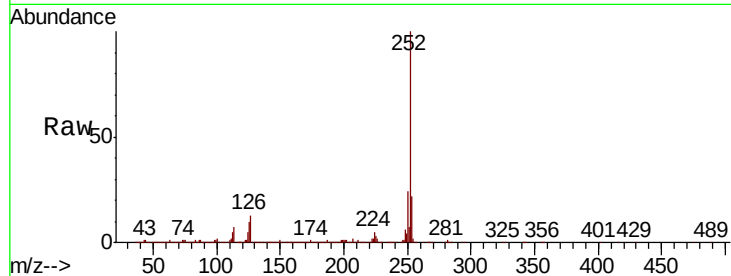
Tgt Ion:252 Resp: 6356315

Ion Ratio Lower Upper

252 100

253 22.1 17.6 26.4

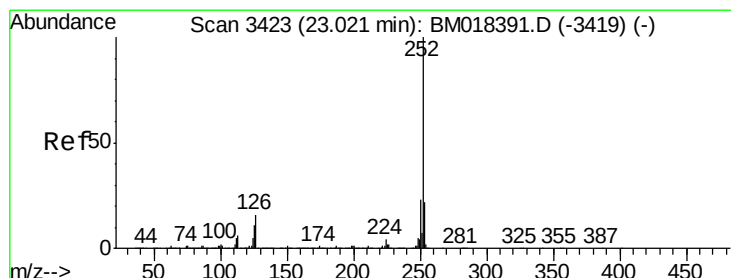
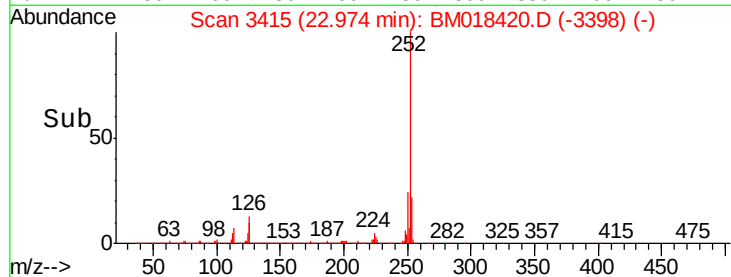
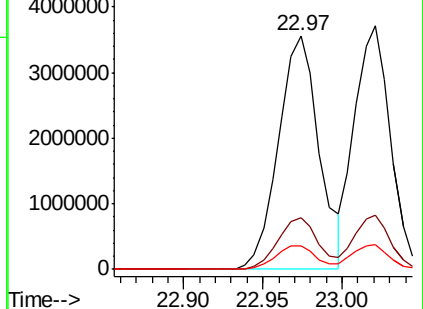
125 10.3 8.5 12.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 32.408 ng

RT: 23.02 min Scan# 3423

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

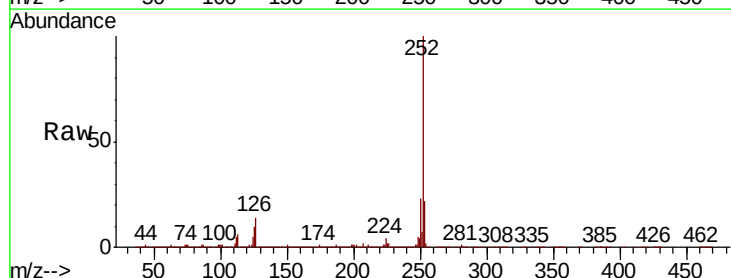
Tgt Ion:252 Resp: 5824862

Ion Ratio Lower Upper

252 100

253 22.1 17.4 26.0

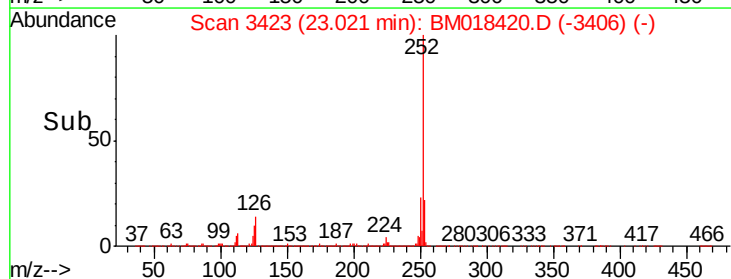
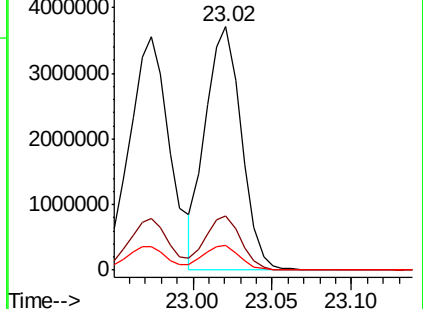
125 10.1 8.6 12.8



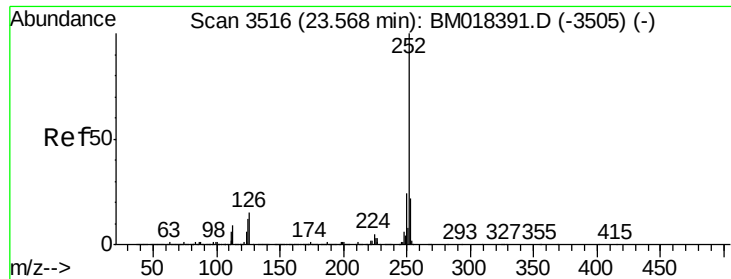
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#90

Benzo(a)pyrene

Concen: 32.239 ng

RT: 23.57 min Scan# 3516

Delta R.T. 0.00 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

Instrument :

BNA\_M

ClientSampleId :

381211744-2MSD

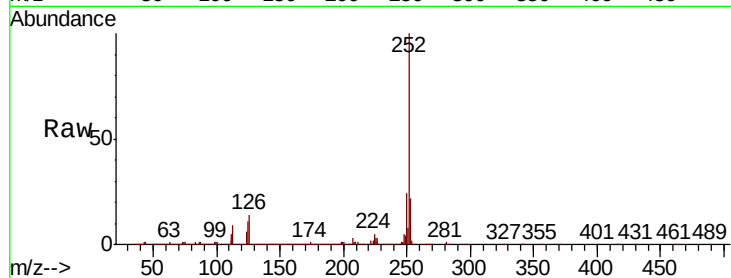
Tgt Ion:252 Resp: 5565476

Ion Ratio Lower Upper

252 100

253 21.8 17.5 26.3

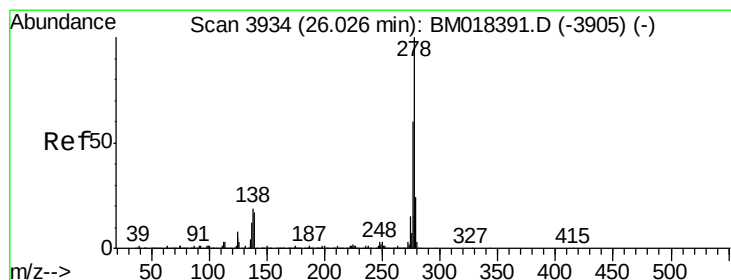
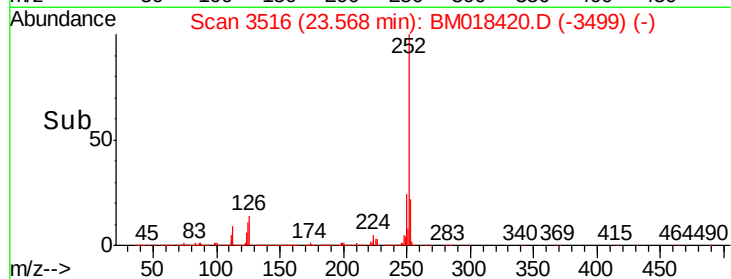
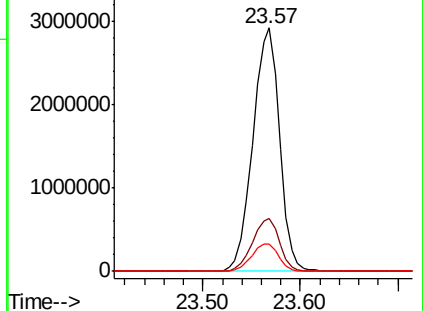
125 11.2 9.7 14.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 27.977 ng

RT: 26.01 min Scan# 3932

Delta R.T. -0.01 min

Lab File: BM018420.D

Acq: 28 Dec 2018 06:03

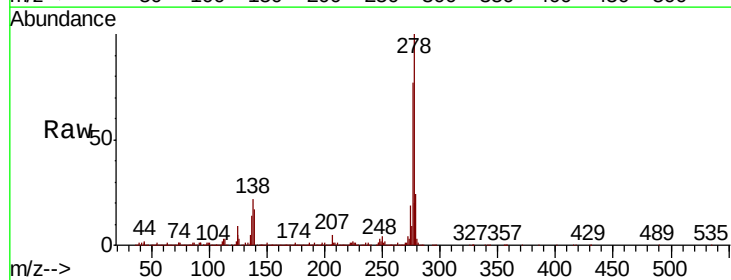
Tgt Ion:278 Resp: 5029531

Ion Ratio Lower Upper

278 100

139 16.6 13.2 19.8

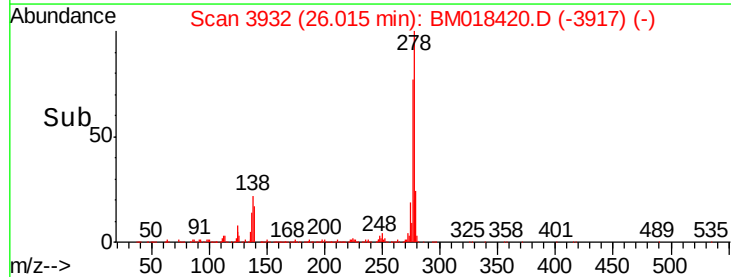
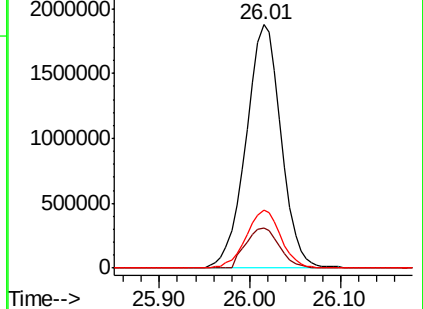
279 23.6 19.0 28.4

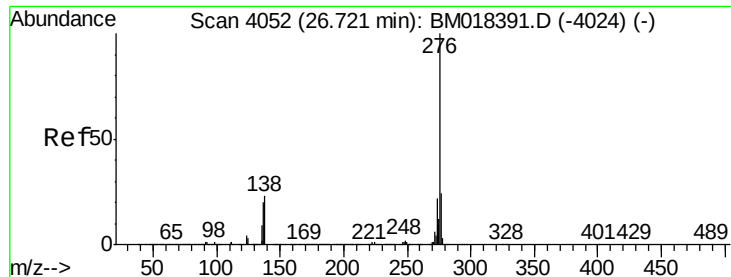


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

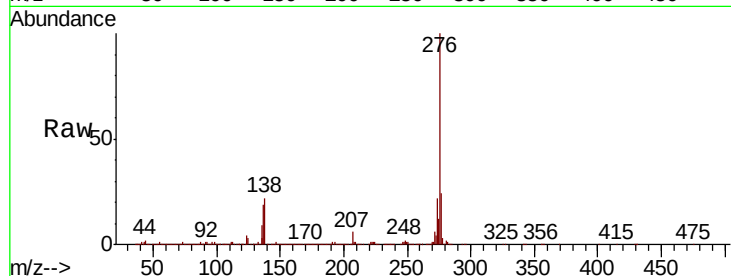




#92  
 Benzo(g,h,i)perylene  
 Concen: 25.908 ng  
 RT: 26.71 min Scan# 4051  
 Delta R.T. -0.01 min  
 Lab File: BM018420.D  
 Acq: 28 Dec 2018 06:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 381211744-2MSD

Tgt Ion: 276 Resp: 4459723  
 Ion Ratio Lower Upper  
 276 100  
 277 23.6 19.0 28.4  
 138 22.5 18.1 27.1



Abundance Ion 276.00 (275.70 to 276.70): E  
 2000000 Ion 277.00 (276.70 to 277.70): E  
 Ion 138.00 (137.70 to 138.70): E

