

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF102318\  
 Data File : BF110087.D  
 Acq On : 23 Oct 2018 19:42  
 Operator : JU/SJ  
 Sample : J5164-03  
 Misc : MDL 1PPM  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

Manual Integrations  
 APPROVED

Sohil  
 10/24/2018 5:12:01 PM

Quant Time: Oct 24 05:37:46 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 23 15:06:18 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.96  | 152  | 177617   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 8.25  | 136  | 760048   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 10.00 | 164  | 368010   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 11.50 | 188  | 714435   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 14.14 | 240  | 612481   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 15.67 | 264  | 533979   | 20.00 | ng    | -0.02    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.58  | 112 | 1385347 | 127.01 | ng | -0.02 |
| 7) Phenol-d6             | 6.59  | 99  | 1757125 | 125.95 | ng | -0.02 |
| 23) Nitrobenzene-d5      | 7.53  | 82  | 1033129 | 80.62  | ng | -0.02 |
| 42) 2,4,6-Tribromophenol | 10.80 | 330 | 468257  | 128.45 | ng | -0.01 |
| 45) 2-Fluorobiphenyl     | 9.33  | 172 | 1888017 | 80.56  | ng | -0.01 |
| 79) Terphenyl-d14        | 13.09 | 244 | 1999683 | 67.90  | ng | -0.02 |

## Target Compounds

|                                |      |     |        |       |    | Qvalue |
|--------------------------------|------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.83 | 88  | 5015   | 0.878 | ng | 95     |
| 3) Pyridine                    | 3.76 | 79  | 11132  | 0.875 | ng | 93     |
| 4) n-Nitrosodimethylamine      | 3.57 | 42  | 4670   | 0.876 | ng | # 87   |
| 6) Aniline                     | 6.63 | 93  | 13809  | 0.760 | ng | # 54   |
| 8) 2-Chlorophenol              | 6.75 | 128 | 13297  | 1.057 | ng | # 75   |
| 9) Benzaldehyde                | 6.52 | 77  | 8192   | 0.043 | ng | 93     |
| 10) Phenol                     | 6.60 | 94  | 15396  | 1.032 | ng | # 64   |
| 11) bis(2-Chloroethyl)ether    | 6.69 | 93  | 14050  | 1.145 | ng | 92     |
| 12) 1,3-Dichlorobenzene        | 6.90 | 146 | 15349  | 1.109 | ng | 96     |
| 13) 1,4-Dichlorobenzene        | 6.98 | 146 | 14967  | 1.069 | ng | 95     |
| 14) 1,2-Dichlorobenzene        | 7.13 | 146 | 14456  | 1.113 | ng | 98     |
| 15) Benzyl Alcohol             | 7.12 | 79  | 26976  | 2.514 | ng | # 50   |
| 16) 2,2'-oxybis(1-Chloropropan | 7.23 | 45  | 21851  | 1.114 | ng | 72     |
| 17) 2-Methylphenol             | 7.20 | 107 | 10961  | 1.094 | ng | # 84   |
| 18) Hexachloroethane           | 7.47 | 117 | 5820   | 1.136 | ng | 90     |
| 19) n-Nitroso-di-n-propylamine | 7.36 | 70  | 9144   | 1.022 | ng | # 87   |
| 20) 3+4-Methylphenols          | 7.36 | 107 | 12649  | 0.976 | ng | # 77   |
| 22) Acetophenone               | 7.36 | 105 | 19993  | 1.142 | ng | 96     |
| 24) Nitrobenzene               | 7.55 | 77  | 17307  | 1.308 | ng | 89     |
| 25) Isophorone                 | 7.77 | 82  | 25399m | 1.163 | ng |        |
| 26) 2-Nitrophenol              | 7.86 | 139 | 5357   | 0.851 | ng | 94     |
| 27) 2,4-Dimethylphenol         | 7.89 | 122 | 10630  | 1.018 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 7.99 | 93  | 16042  | 1.081 | ng | 97     |
| 29) 2,4-Dichlorophenol         | 8.10 | 162 | 9913   | 0.940 | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 8.19 | 180 | 12798  | 1.083 | ng | 93     |
| 31) Naphthalene                | 8.27 | 128 | 42396  | 1.210 | ng | 98     |
| 32) Benzoic acid               | 7.94 | 122 | 2930   | 0.363 | ng | # 81   |
| 33) 4-Chloroaniline            | 8.32 | 127 | 11084  | 0.703 | ng | 95     |
| 34) Hexachlorobutadiene        | 8.38 | 225 | 6887   | 1.050 | ng | 96     |
| 35) Caprolactam                | 8.64 | 113 | 2934   | 0.798 | ng | 98     |
| 36) 4-Chloro-3-methylphenol    | 8.78 | 107 | 10754  | 0.943 | ng | 95     |
| 37) 2-Methylnaphthalene        | 8.96 | 142 | 27610  | 1.191 | ng | 95     |
| 38) 1-Methylnaphthalene        | 8.96 | 142 | 27610  | 1.233 | ng | 93     |
| 40) 1,2,4,5-Tetrachlorobenzene | 9.13 | 216 | 11917  | 1.039 | ng | 99     |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF102318\  
 Data File : BF110087.D  
 Acq On : 23 Oct 2018 19:42  
 Operator : JU/SJ  
 Sample : J5164-03  
 Misc : MDL 1PPM  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

Manual Integrations  
 APPROVED

Sohil  
 10/24/2018 5:12:01 PM

Quant Time: Oct 24 05:37:46 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 23 15:06:18 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 9.11  | 237  | 4660     | 0.795 | ng    | 97       |
| 43) 2,4,6-Trichlorophenol      | 9.23  | 196  | 6554     | 0.886 | ng    | 95       |
| 44) 2,4,5-Trichlorophenol      | 9.27  | 196  | 7483     | 0.957 | ng    | 96       |
| 46) 1,1'-Biphenyl              | 9.42  | 154  | 38577    | 1.159 | ng    | 98       |
| 47) 2-Chloronaphthalene        | 9.45  | 162  | 27011    | 1.106 | ng    | 96       |
| 48) 2-Nitroaniline             | 9.55  | 65   | 6897     | 0.932 | ng    | 90       |
| 49) Acenaphthylene             | 9.87  | 152  | 41214    | 1.169 | ng    | 98       |
| 50) Dimethylphthalate          | 9.71  | 163  | 30107    | 1.108 | ng    | 98       |
| 51) 2,6-Dinitrotoluene         | 9.78  | 165  | 5726     | 0.979 | ng    | 94       |
| 52) Acenaphthene               | 10.04 | 154  | 26118    | 1.120 | ng    | 97       |
| 53) 3-Nitroaniline             | 9.95  | 138  | 5427     | 0.780 | ng #  | 94       |
| 54) 2,4-Dinitrophenol          | 10.06 | 184  | 490      | 5.372 | ng #  | 75       |
| 55) Dibenzofuran               | 10.21 | 168  | 38467    | 1.178 | ng    | 95       |
| 56) 4-Nitrophenol              | 10.10 | 139  | 3745     | 0.727 | ng    | 89       |
| 57) 2,4-Dinitrotoluene         | 10.19 | 165  | 6659     | 0.896 | ng #  | 92       |
| 58) Fluorene                   | 10.55 | 166  | 30255    | 1.245 | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol  | 10.33 | 232  | 6052     | 0.950 | ng #  | 98       |
| 60) Diethylphthalate           | 10.42 | 149  | 29250    | 1.103 | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 10.55 | 204  | 14446    | 1.127 | ng    | 97       |
| 62) 4-Nitroaniline             | 10.56 | 138  | 6346     | 0.917 | ng    | 93       |
| 63) Azobenzene                 | 10.70 | 77   | 29362    | 1.115 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylphenol | 10.60 | 198  | 1336     | 0.409 | ng    | 85       |
| 66) n-Nitrosodiphenylamine     | 10.66 | 169  | 24486    | 1.045 | ng    | 96       |
| 67) 4-Bromophenyl-phenylether  | 11.04 | 248  | 7585     | 0.979 | ng    | 87       |
| 68) Hexachlorobenzene          | 11.10 | 284  | 8875     | 1.079 | ng #  | 85       |
| 69) Atrazine                   | 11.18 | 200  | 7648     | 1.033 | ng    | 95       |
| 70) Pentachlorophenol          | 11.30 | 266  | 1621     | 0.338 | ng #  | 84       |
| 71) Phenanthrene               | 11.52 | 178  | 46145    | 1.234 | ng    | 99       |
| 72) Anthracene                 | 11.57 | 178  | 46590    | 1.243 | ng    | 97       |
| 73) Carbazole                  | 11.73 | 167  | 38597    | 1.055 | ng    | 98       |
| 74) Di-n-butylphthalate        | 12.05 | 149  | 45586    | 1.103 | ng    | 99       |
| 75) Fluoranthene               | 12.72 | 202  | 45874    | 1.209 | ng    | 99       |
| 77) Benzidine                  | 12.83 | 184  | 7255     | 0.281 | ng    | 95       |
| 78) Pyrene                     | 12.94 | 202  | 46584    | 1.061 | ng    | 97       |
| 80) Butylbenzylphthalate       | 13.55 | 149  | 16161    | 0.848 | ng    | 97       |
| 81) Benzo(a)anthracene         | 14.13 | 228  | 42452    | 1.169 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine     | 14.09 | 252  | 9199     | 0.727 | ng    | 94       |
| 83) Chrysene                   | 14.17 | 228  | 40534    | 1.175 | ng    | 96       |
| 84) Bis(2-ethylhexyl)phthalate | 14.10 | 149  | 24023    | 0.932 | ng    | 99       |
| 85) Di-n-octyl phthalate       | 14.72 | 149  | 38555    | 0.962 | ng #  | 95       |
| 86) Indeno(1,2,3-cd)pyrene     | 17.22 | 276  | 28826    | 1.007 | ng #  | 93       |
| 88) Benzo(b)fluoranthene       | 15.21 | 252  | 34003    | 1.103 | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 15.24 | 252  | 34889    | 1.151 | ng    | 97       |
| 90) Benzo(a)pyrene             | 15.60 | 252  | 31167    | 1.098 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene     | 17.23 | 278  | 24549    | 1.003 | ng    | 97       |
| 92) Benzo(g,h,i)perylene       | 17.69 | 276  | 24122    | 1.000 | ng    | 93       |

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

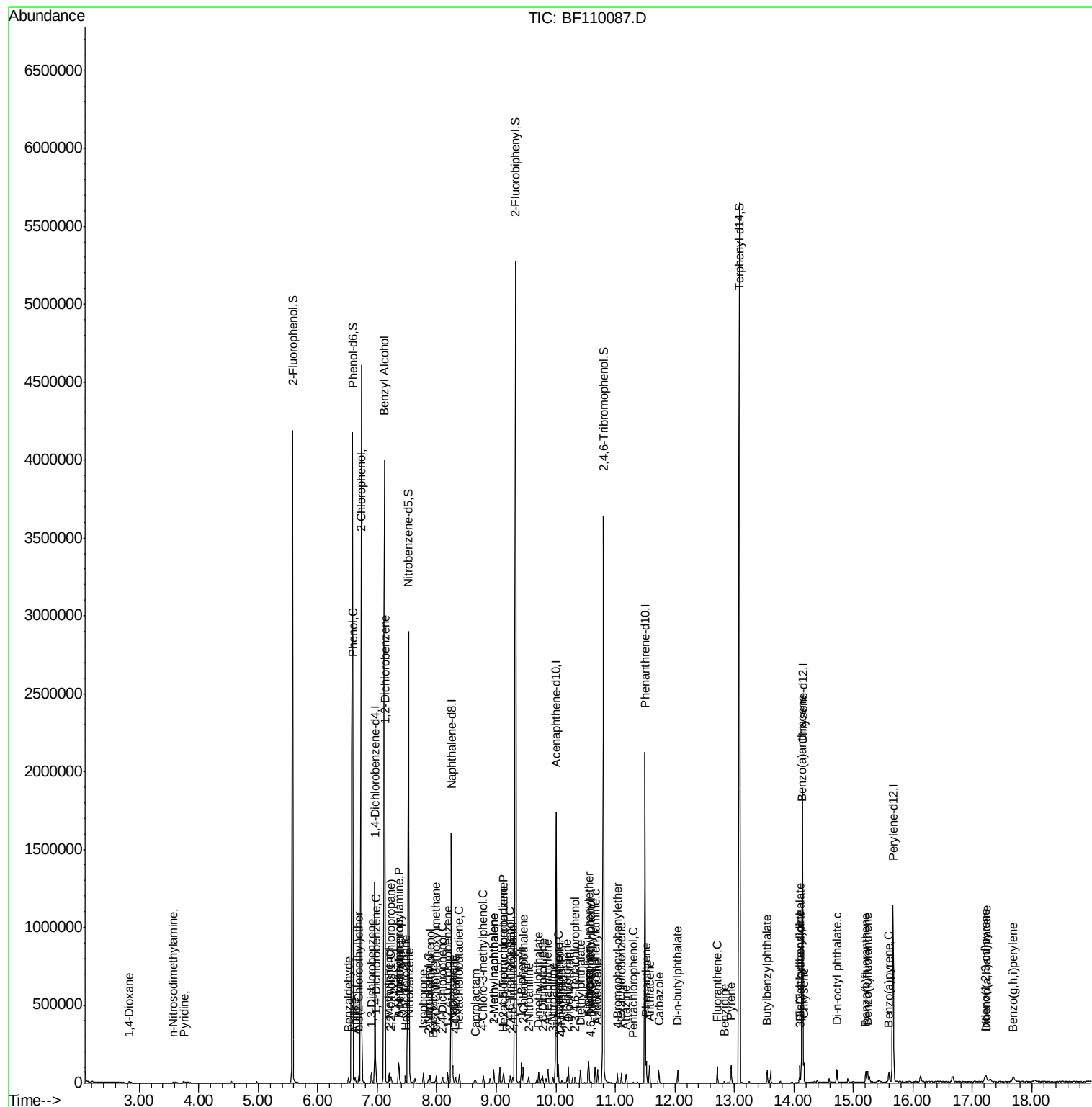
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF102318\  
 Data File : BF110087.D  
 Acq On : 23 Oct 2018 19:42  
 Operator : JU/SJ  
 Sample : J5164-03  
 Misc : MDL 1PPM  
 ALS Vial : 9 Sample Multiplier: 1

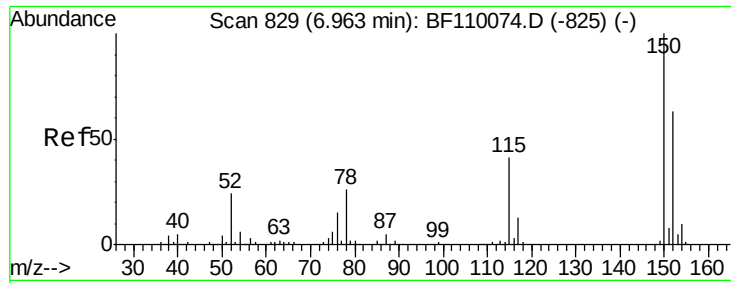
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

Manual Integrations  
 APPROVED

Sohil  
 10/24/2018 5:12:01 PM

Quant Time: Oct 24 05:37:46 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 23 15:06:18 2018  
 Response via : Initial Calibration





#1

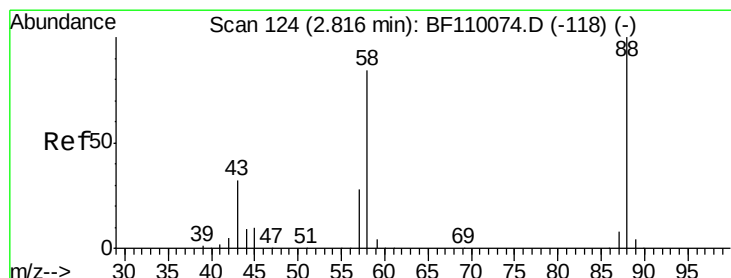
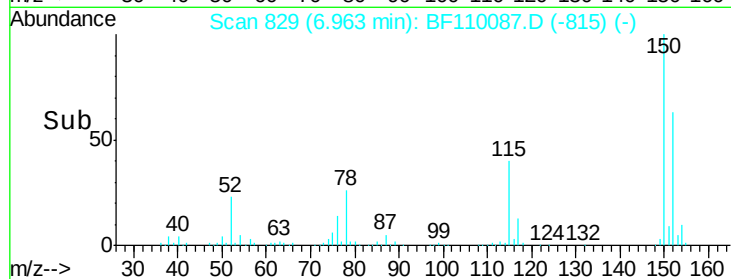
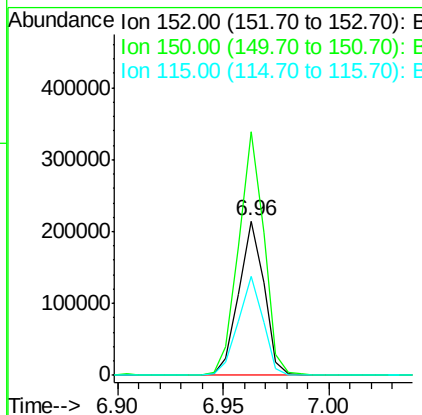
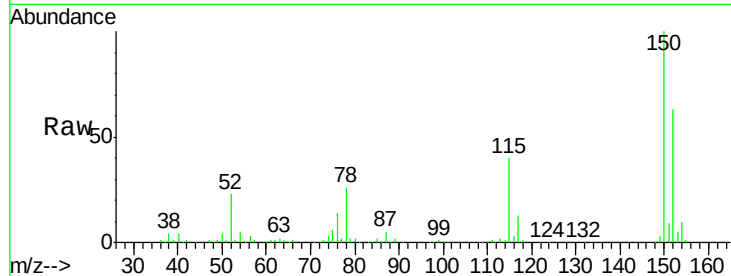
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 829  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.6 | 122.7 | 184.1 |
| 115     | 63.7  | 49.1  | 73.7  |

Manual Integrations  
APPROVED

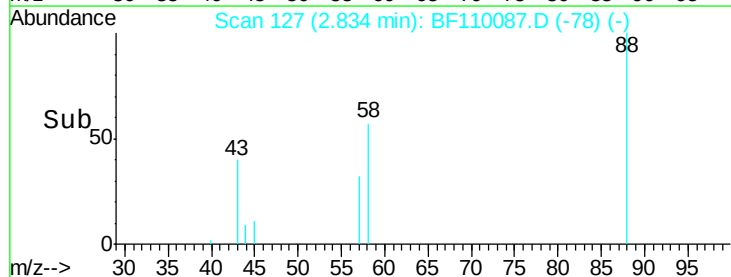
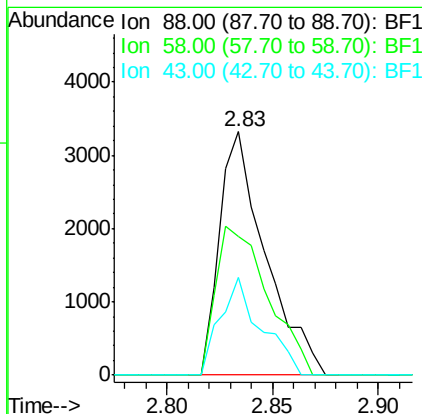
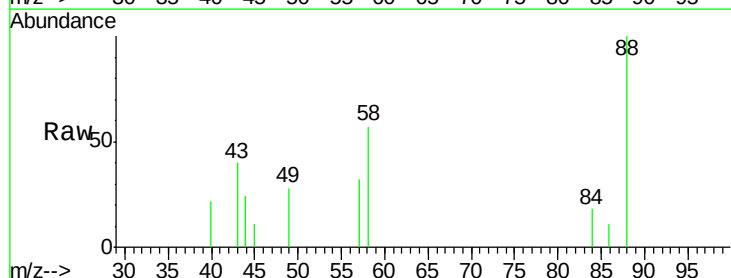
Sohil  
10/24/2018 5:12:01 PM

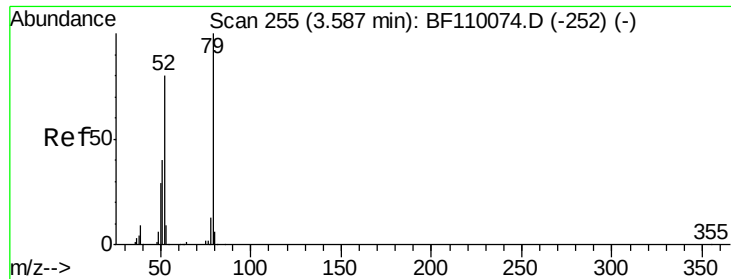


#2

1,4-Dioxane  
Concen: 0.878 ng  
RT: 2.83 min Scan# 127  
Delta R.T. -0.01 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 69.1  | 57.1  | 85.7  |
| 43      | 35.6  | 24.1  | 36.1  |





#3

Pyridine

Concen: 0.875 ng

RT: 3.76 min Scan# 285

Delta R.T. 0.15 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

Instrument :

BNA\_F

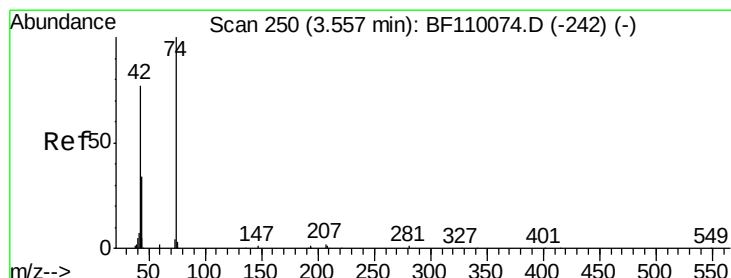
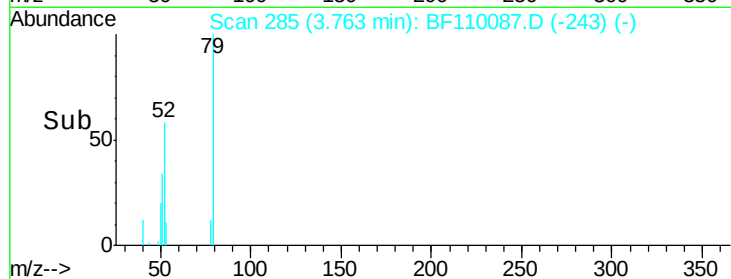
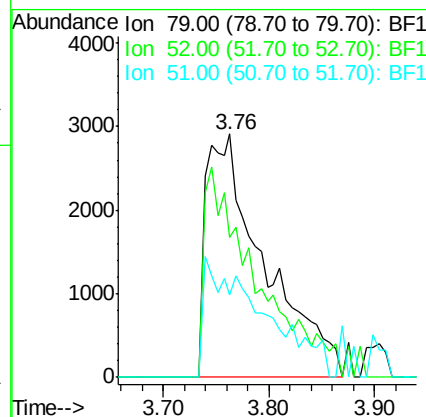
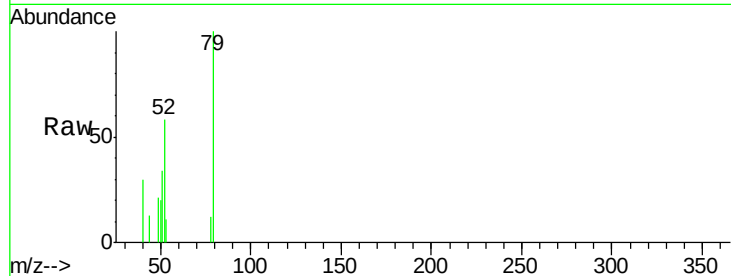
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 79    | Resp: | 11132 |
| Ion Ratio | Lower | Upper |       |
| 79        | 100   |       |       |
| 52        | 57.7  | 53.1  | 79.7  |
| 51        | 34.0  | 27.4  | 41.2  |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



#4

n-Nitrosodimethylamine

Concen: 0.876 ng

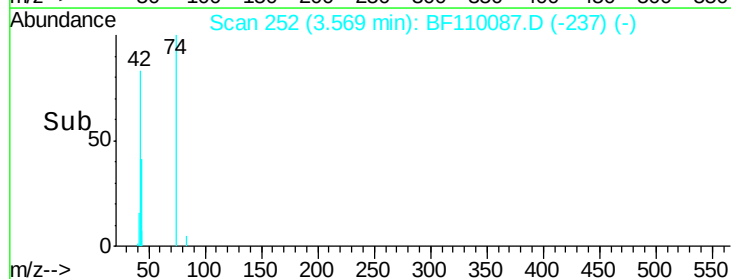
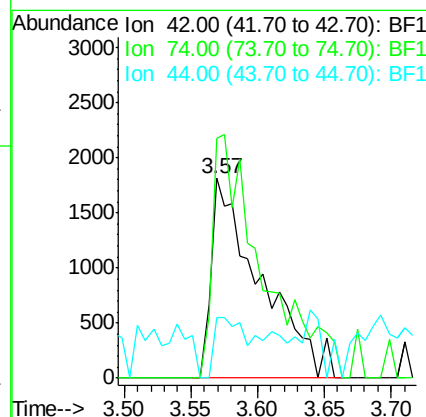
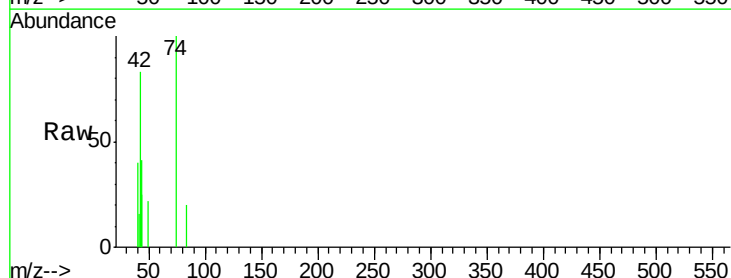
RT: 3.57 min Scan# 252

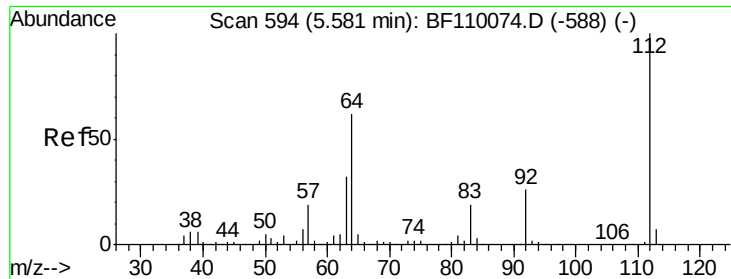
Delta R.T. -0.01 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 4670  |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 74        | 119.9 | 105.5 | 158.3 |
| 44        | 30.1  | 4.9   | 7.3#  |





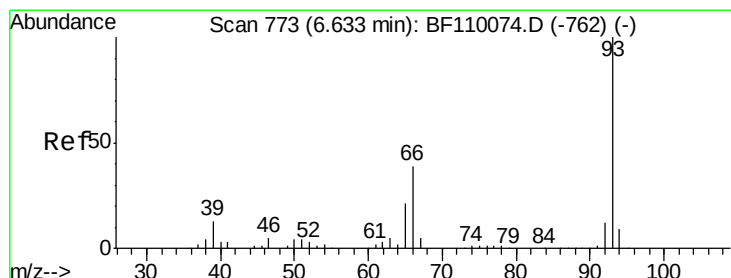
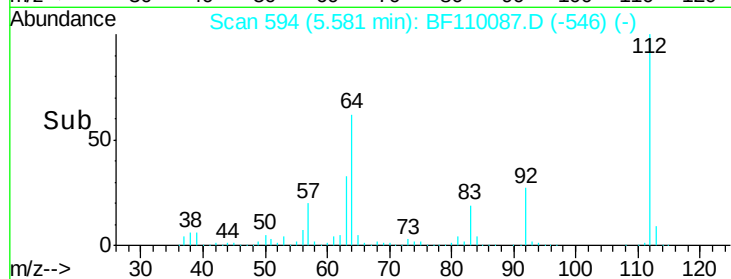
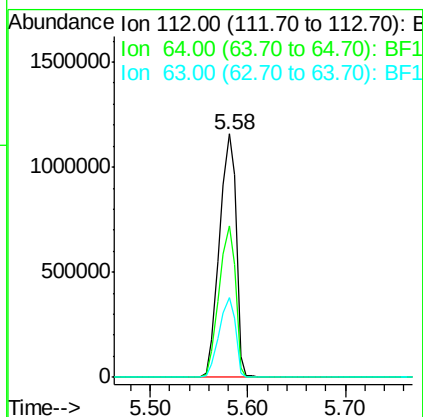
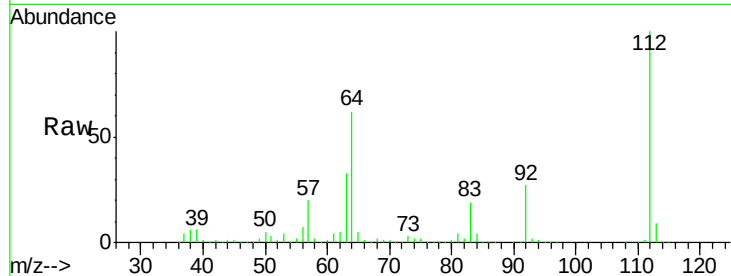
#5  
2-Fluorophenol  
Concen: 127.013 ng  
RT: 5.58 min Scan# 594  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 112 Resp: 1385347  
Ion Ratio Lower Upper  
112 100  
64 62.4 44.1 66.1  
63 33.0 23.7 35.5

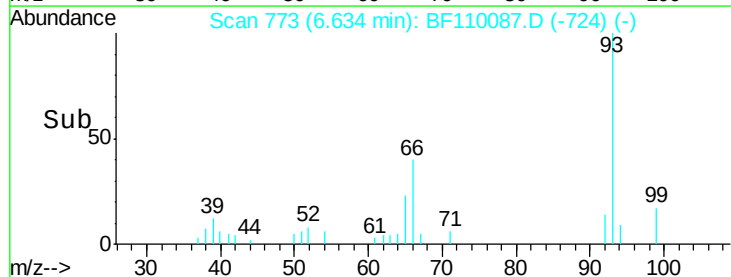
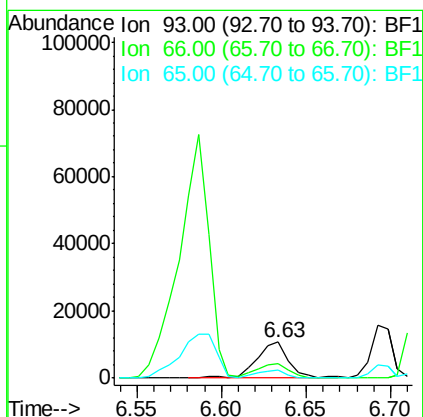
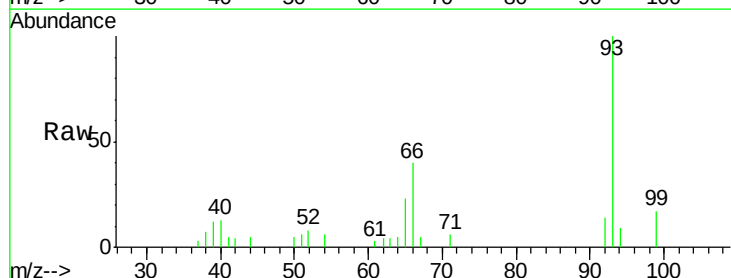
Manual Integrations  
APPROVED

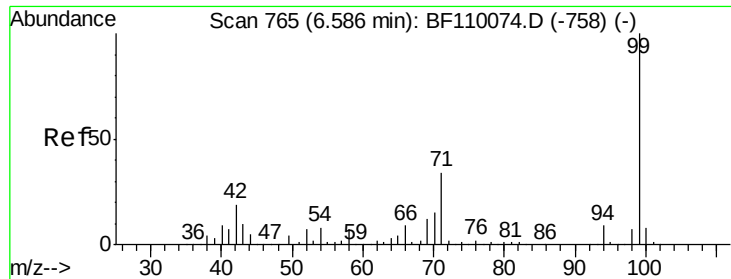
Sohil  
10/24/2018 5:12:01 PM



#6  
Aniline  
Concen: 0.760 ng  
RT: 6.63 min Scan# 773  
Delta R.T. -0.01 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Tgt Ion: 93 Resp: 13809  
Ion Ratio Lower Upper  
93 100  
66 40.1 67.4 101.0#  
65 22.6 41.0 61.4#





#7

Phenol-d6

Concen: 125.949 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

Instrument :

BNA\_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 99 Resp: 1757125

Ion Ratio Lower Upper

99 100

42 20.2 15.8 23.6

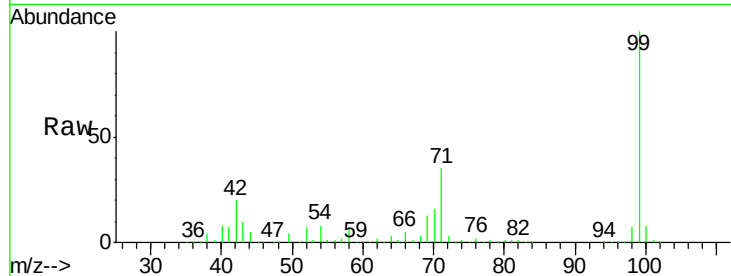
71 35.4 28.0 42.0

Manual Integrations

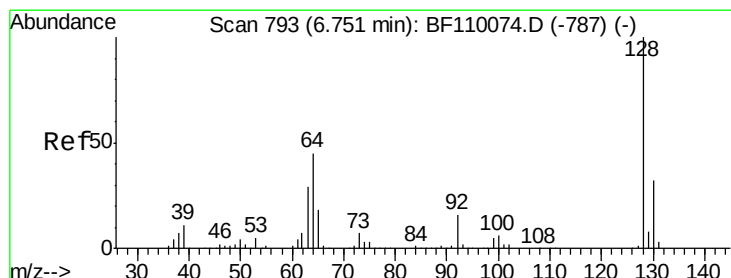
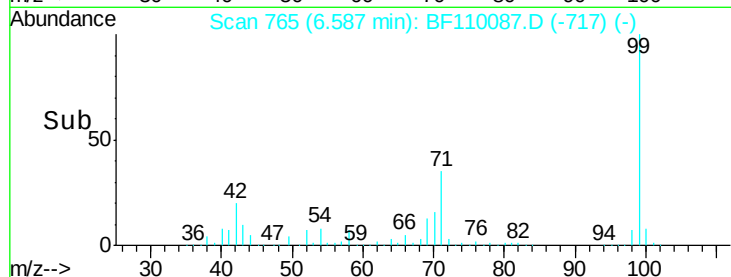
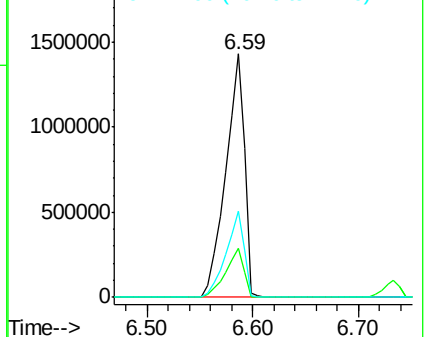
APPROVED

Sohil

10/24/2018 5:12:01 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#8

2-Chlorophenol

Concen: 1.057 ng

RT: 6.75 min Scan# 792

Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

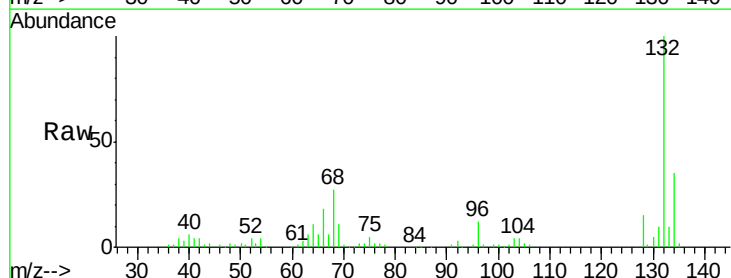
Tgt Ion: 128 Resp: 13297

Ion Ratio Lower Upper

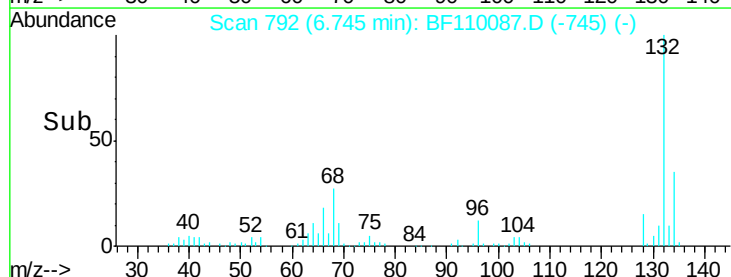
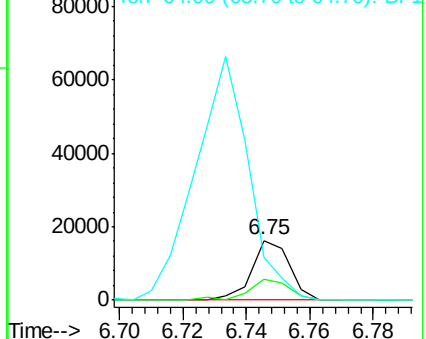
128 100

130 35.1 13.1 53.1

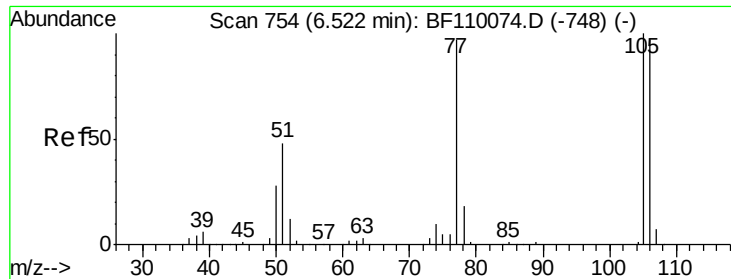
64 72.6 26.0 66.0#



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 130.00 (129.70 to 130.70): E  
Ion 64.00 (63.70 to 64.70): BF1







#9

Benzaldehyde

Concen: 0.043 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.01 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

Instrument :

BNA\_F

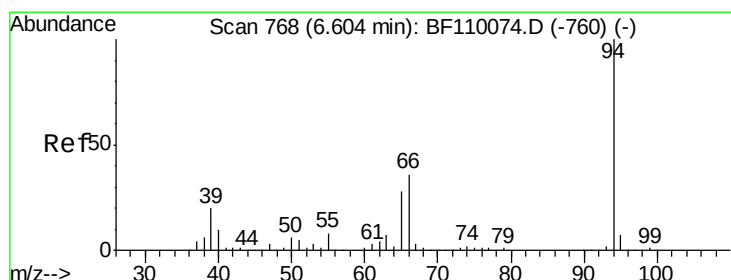
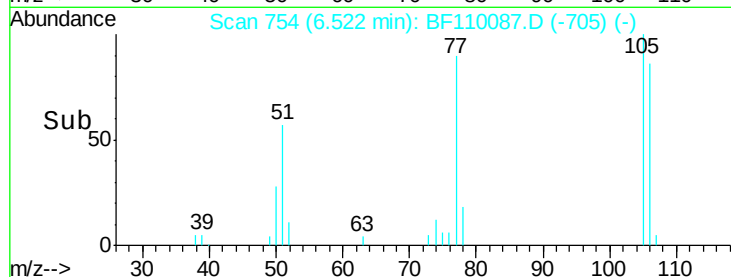
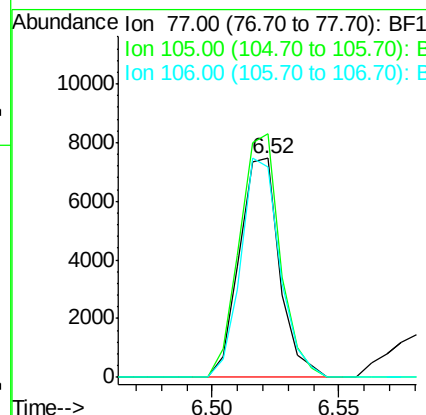
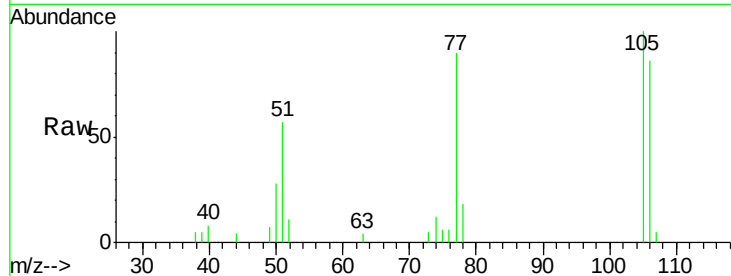
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 8192  |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 105      | 111.3 | 78.6  | 118.6 |
| 106      | 96.3  | 74.8  | 114.8 |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



#10

Phenol

Concen: 1.032 ng

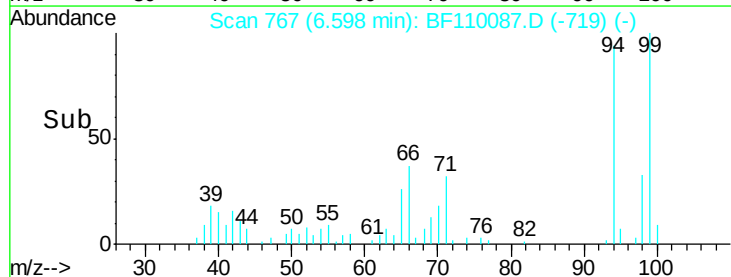
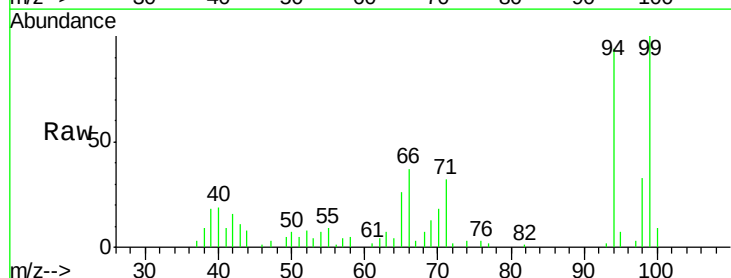
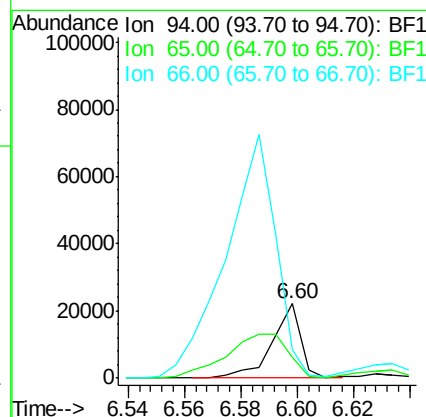
RT: 6.60 min Scan# 767

Delta R.T. -0.02 min

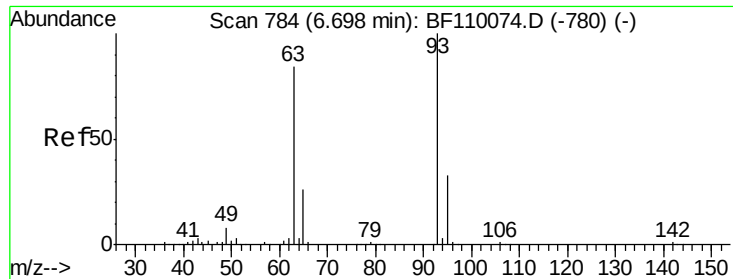
Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 15396 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 27.5  | 25.3  | 65.3  |
| 66       | 39.0  | 54.5  | 94.5# |







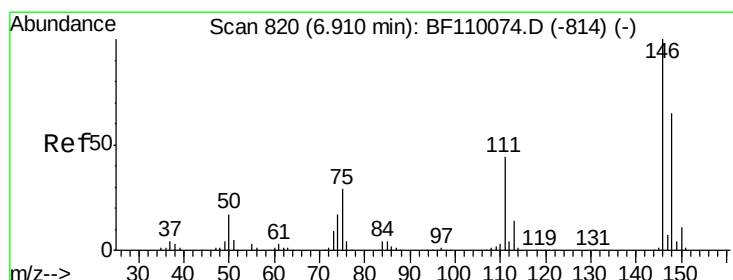
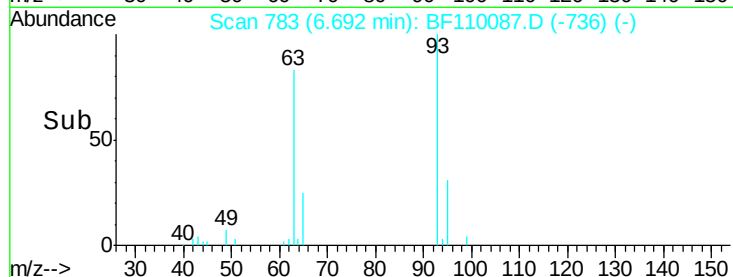
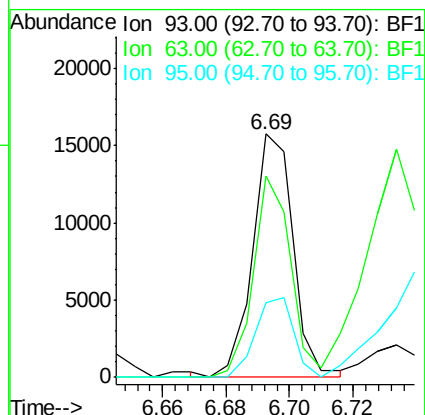
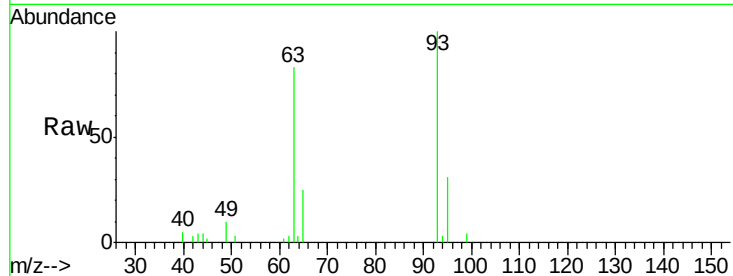
#11  
bis(2-Chloroethyl)ether  
Concen: 1.145 ng  
RT: 6.69 min Scan# 783  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 14050 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 82.6  | 53.4  | 93.4  |
| 95       | 30.9  | 12.1  | 52.1  |

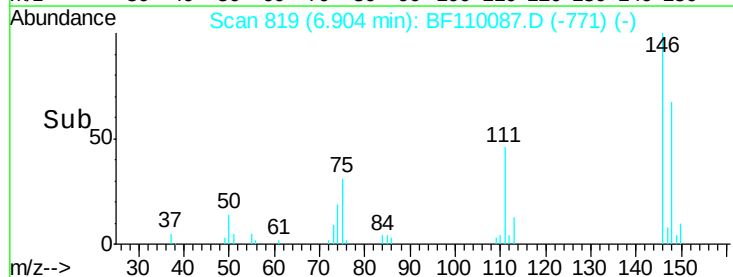
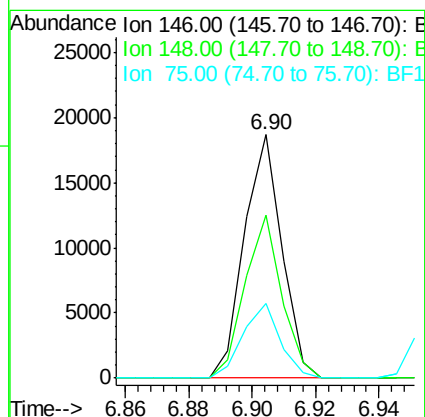
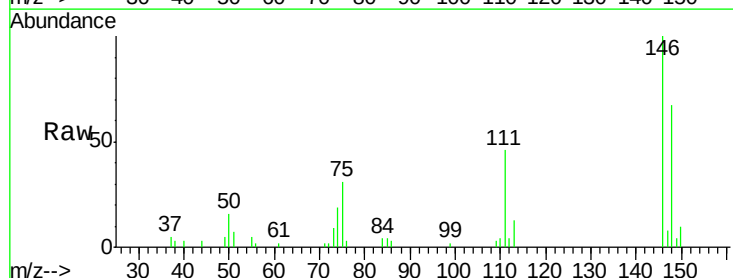
Manual Integrations  
APPROVED

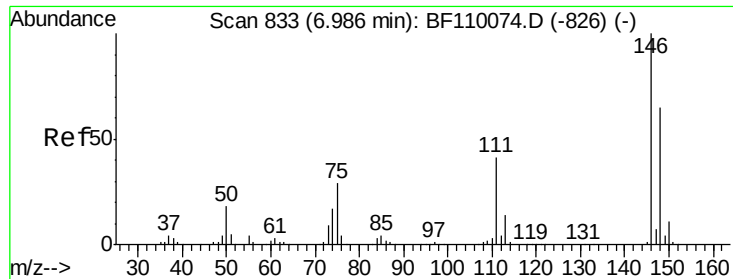
Sohil  
10/24/2018 5:12:01 PM



#12  
1,3-Dichlorobenzene  
Concen: 1.109 ng  
RT: 6.90 min Scan# 819  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 15349 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 148      | 66.8  | 50.4  | 75.6  |
| 75       | 30.6  | 25.8  | 38.6  |





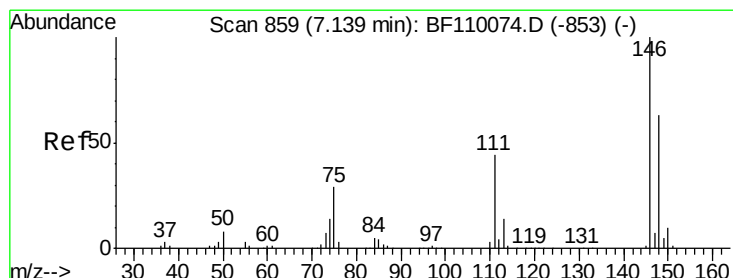
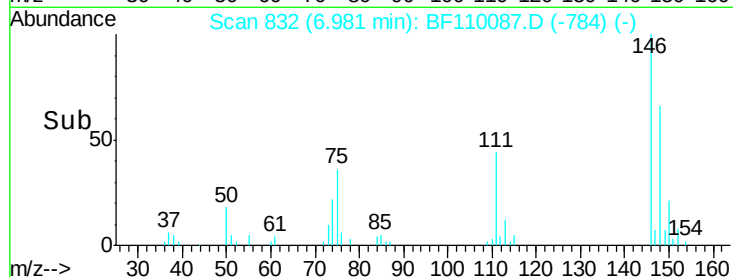
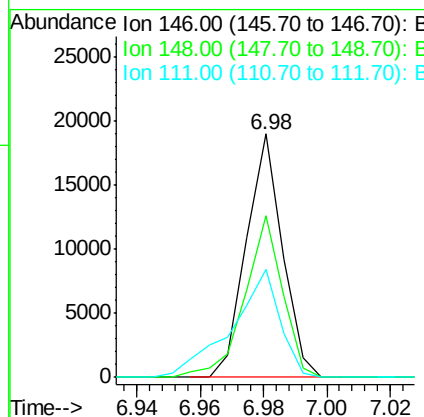
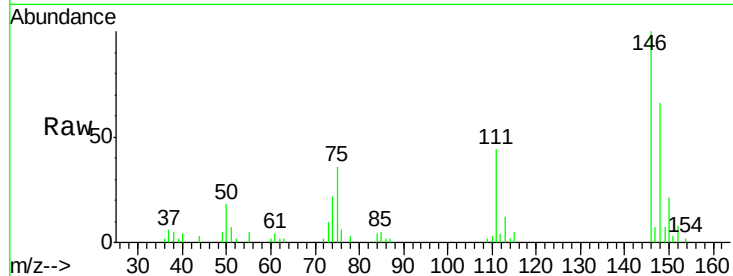
#13  
 1,4-Dichlorobenzene  
 Concen: 1.069 ng  
 RT: 6.98 min Scan# 832  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 66.2  | 50.3  | 75.5  |
| 111     | 44.2  | 32.7  | 49.1  |

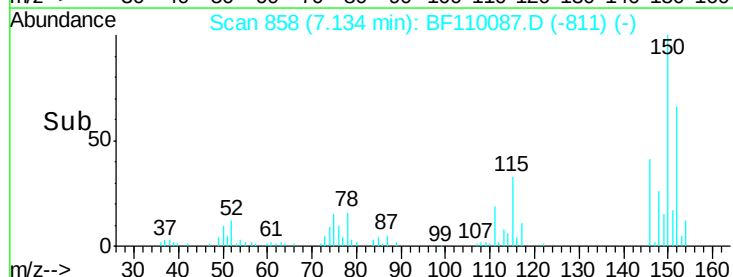
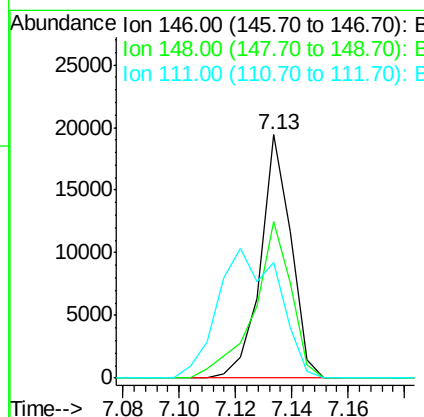
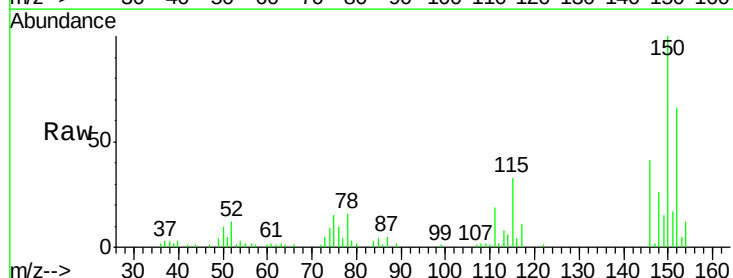
Manual Integrations  
 APPROVED

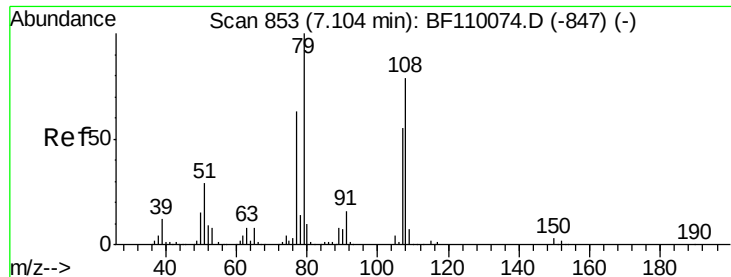
Sohil  
 10/24/2018 5:12:01 PM



#14  
 1,2-Dichlorobenzene  
 Concen: 1.113 ng  
 RT: 7.13 min Scan# 858  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 64.0  | 51.1  | 76.7  |
| 111     | 47.2  | 35.8  | 53.6  |





#15

Benzyl Alcohol

Concen: 2.514 ng

RT: 7.12 min Scan# 856

Delta R.T. -0.00 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

Instrument :

BNA\_F

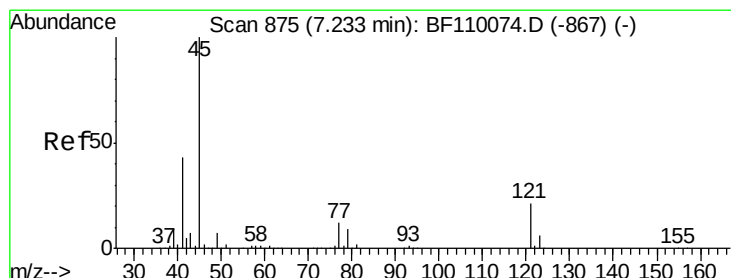
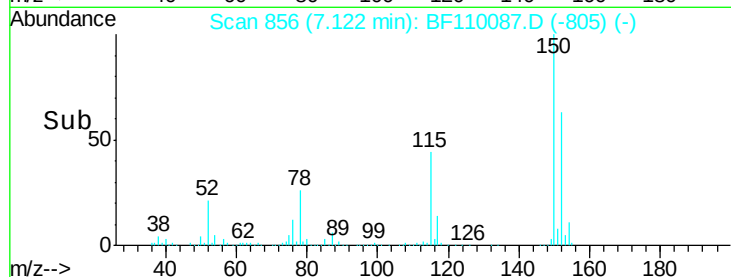
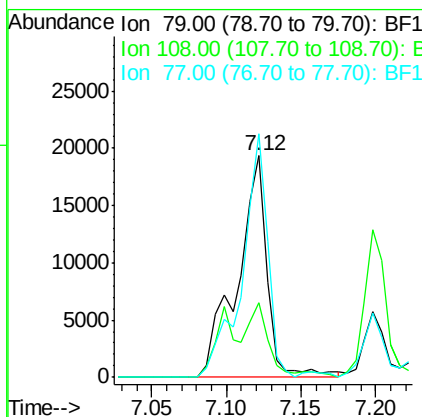
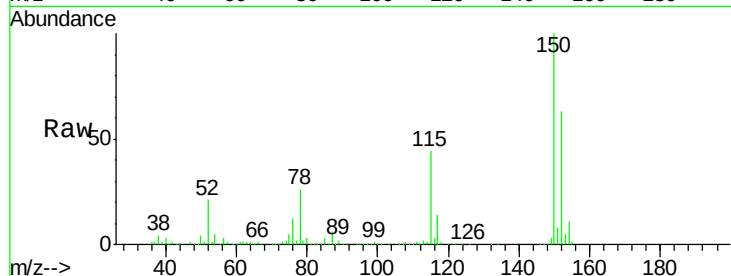
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 79    | Resp: | 26976 |
| Ion Ratio | Lower | Upper |       |
| 79        | 100   |       |       |
| 108       | 33.8  | 56.3  | 84.5# |
| 77        | 109.9 | 52.9  | 79.3# |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



#16

2,2'-oxybis(1-Chloropropane)

Concen: 1.114 ng

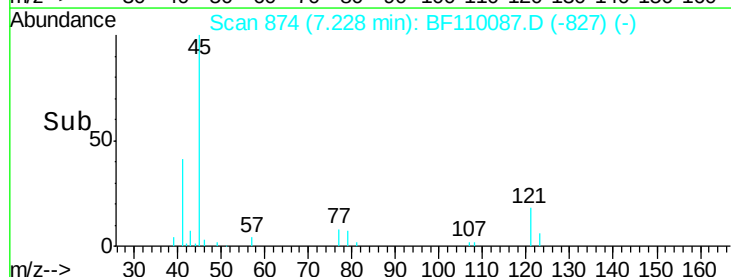
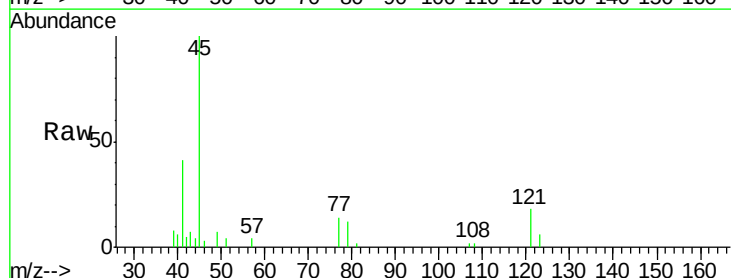
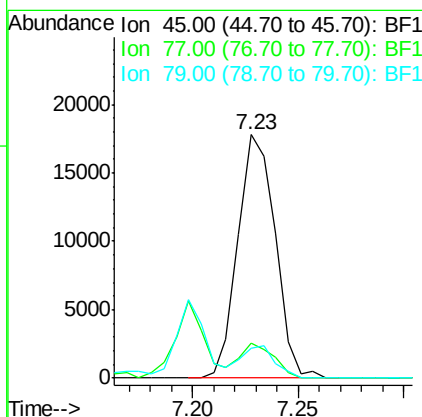
RT: 7.23 min Scan# 874

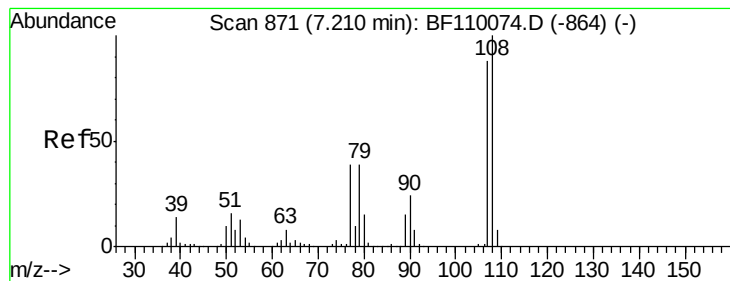
Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 45    | Resp: | 21851 |
| Ion Ratio | Lower | Upper |       |
| 45        | 100   |       |       |
| 77        | 14.2  | 10.0  | 50.0  |
| 79        | 12.0  | 6.1   | 46.1  |





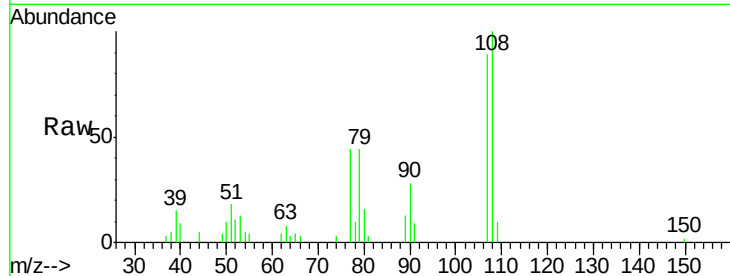
#17  
2-Methylphenol  
Concen: 1.094 ng  
RT: 7.20 min Scan# 869  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

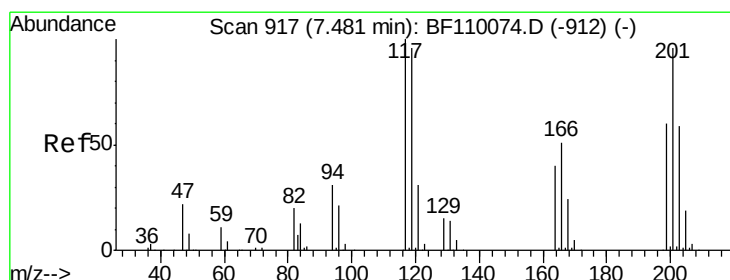
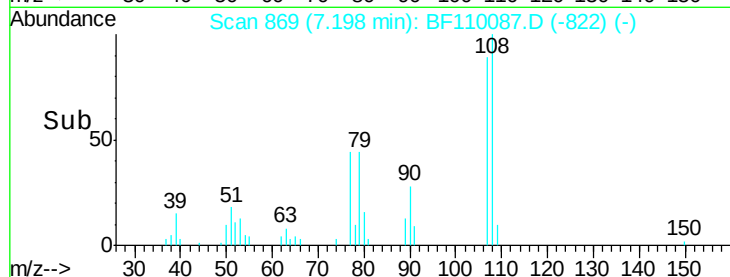
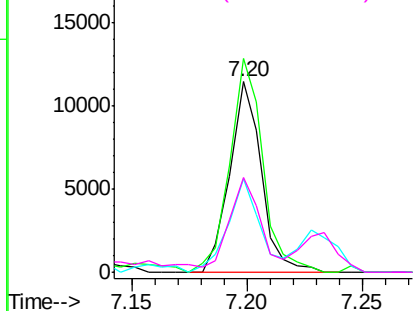
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 107     | 100   | 10961 |       |       |
| 108     | 112.0 | 92.6  | 138.8 |       |
| 77      | 49.0  | 59.4  | 89.2# |       |
| 79      | 49.6  | 54.0  | 81.0# |       |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



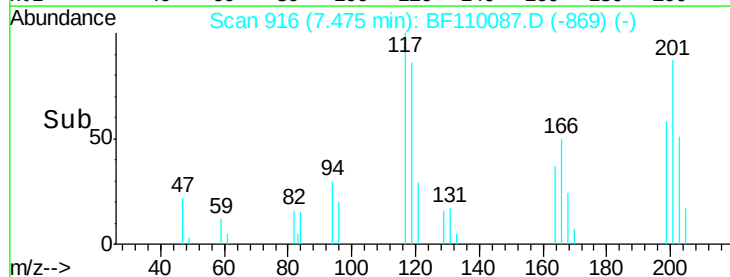
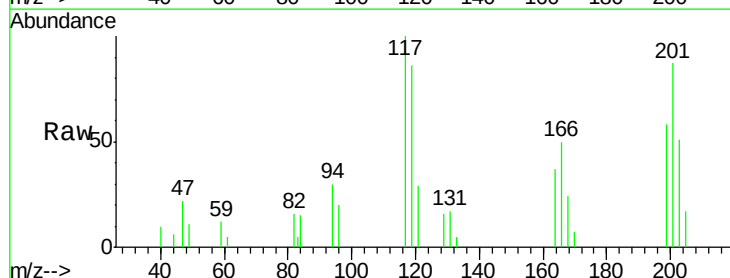
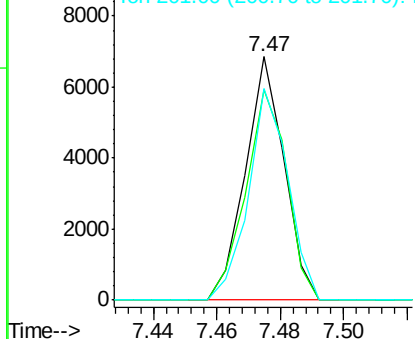
Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1  
Ion 79.00 (78.70 to 79.70): BF1

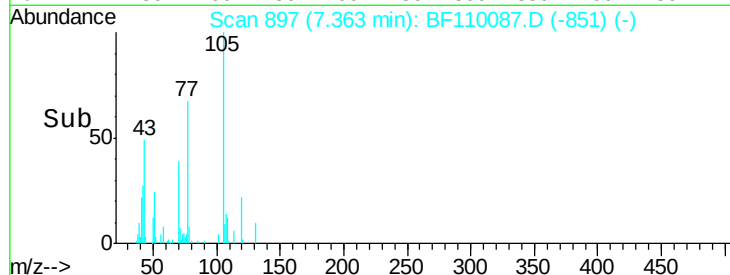
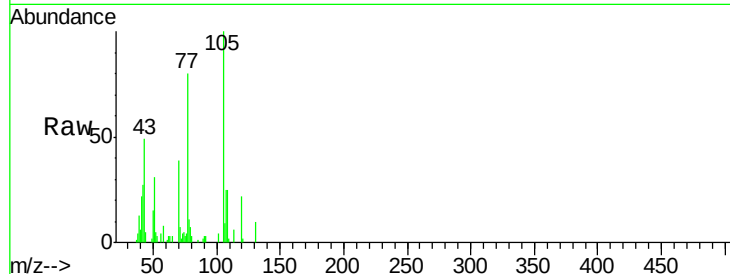
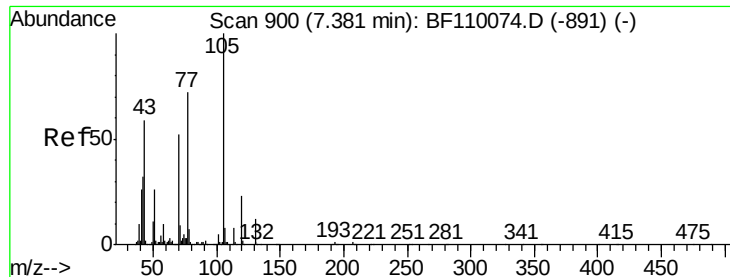


#18  
Hexachloroethane  
Concen: 1.136 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   | 5820 |       |       |
| 119     | 86.3  | 75.0 | 112.6 |       |
| 201     | 87.0  | 79.2 | 118.8 |       |

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





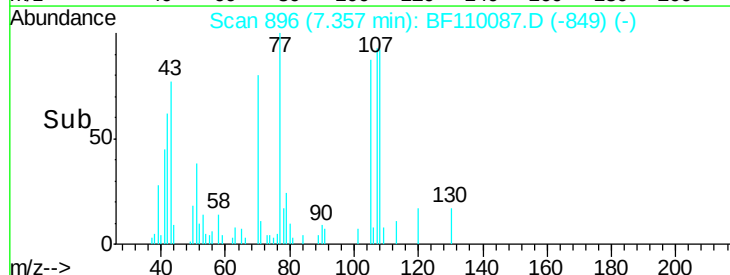
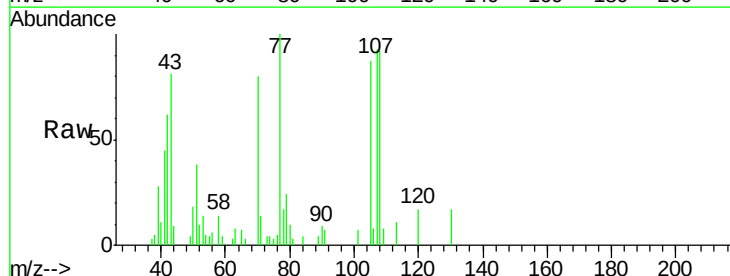
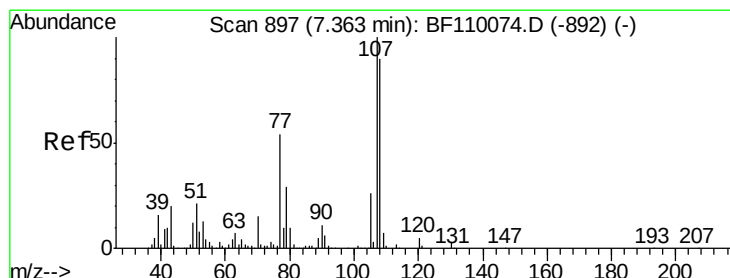
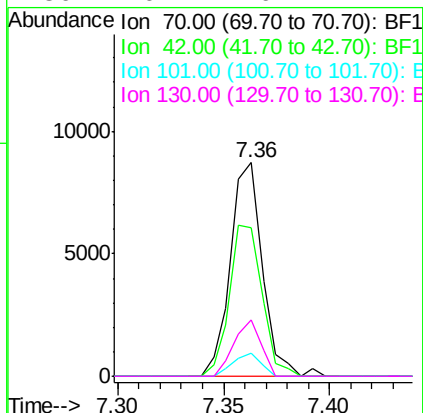
#19  
n-Nitroso-di-n-propylamine  
Concen: 1.022 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.03 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 69.5  | 47.4  | 71.2  |
| 101     | 10.8  | 7.3   | 10.9  |
| 130     | 26.7  | 16.2  | 24.2# |

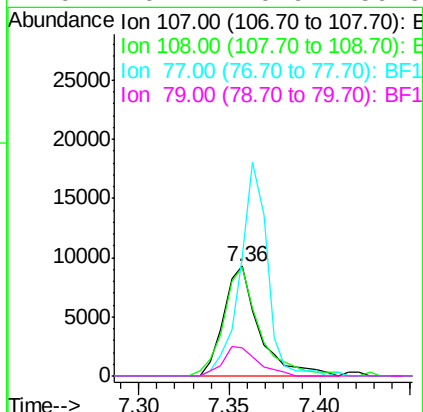
Manual Integrations  
APPROVED

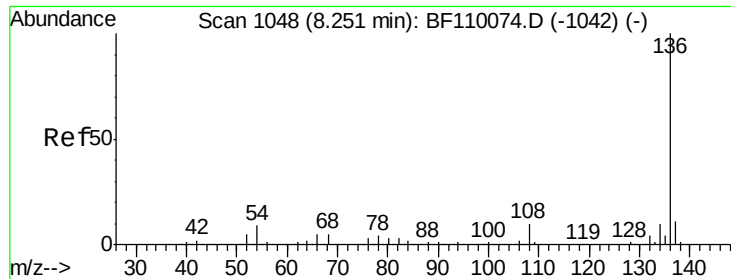
Sohil  
10/24/2018 5:12:01 PM



#20  
3+4-Methylphenols  
Concen: 0.976 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 99.1  | 71.4  | 111.4 |
| 77      | 108.1 | 47.3  | 87.3# |
| 79      | 26.1  | 10.9  | 50.9  |





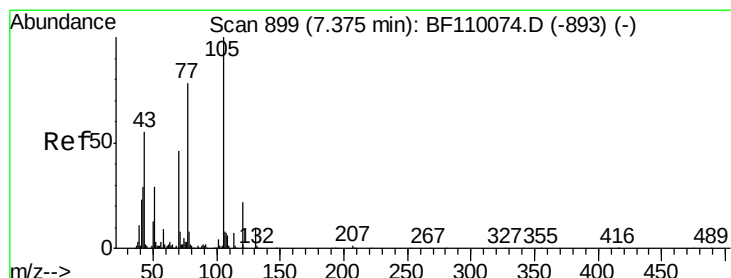
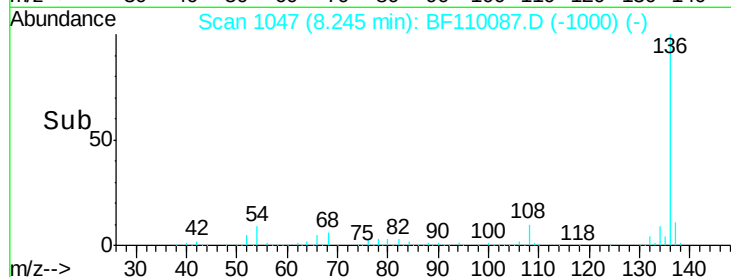
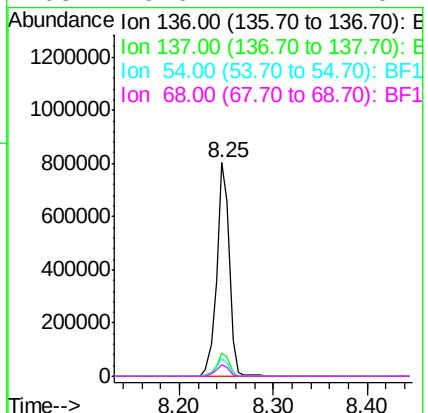
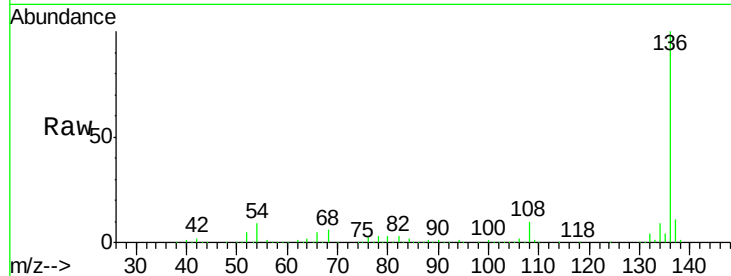
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1047  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 760048 |       |       |
| 137     | 10.8  | 8.8    | 13.2  |       |
| 54      | 8.6   | 5.4    | 8.2#  |       |
| 68      | 5.6   | 4.2    | 6.2   |       |

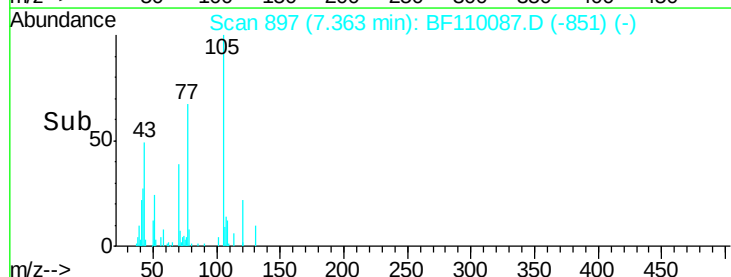
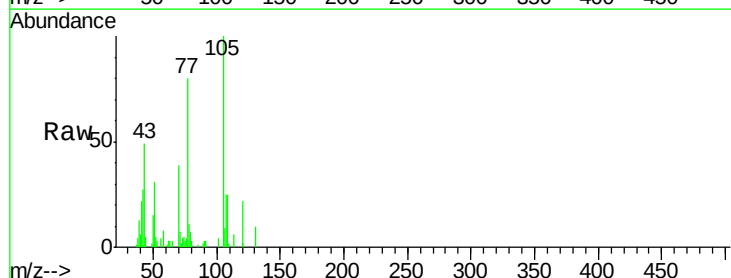
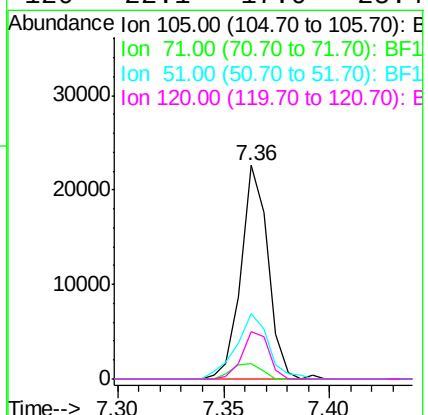
Manual Integrations  
APPROVED

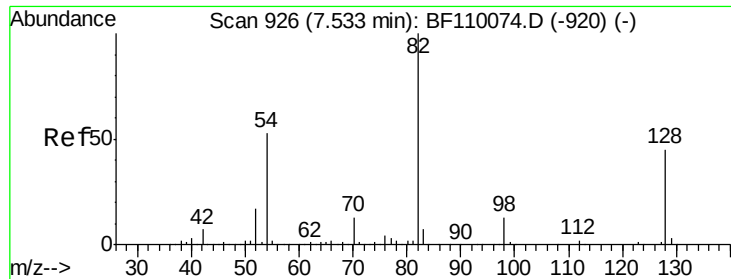
Sohil  
10/24/2018 5:12:01 PM



#22  
Acetophenone  
Concen: 1.142 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.03 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 19993 |       |       |
| 71      | 7.3   | 5.2   | 7.8   |       |
| 51      | 30.7  | 21.8  | 32.8  |       |
| 120     | 22.1  | 17.0  | 25.4  |       |





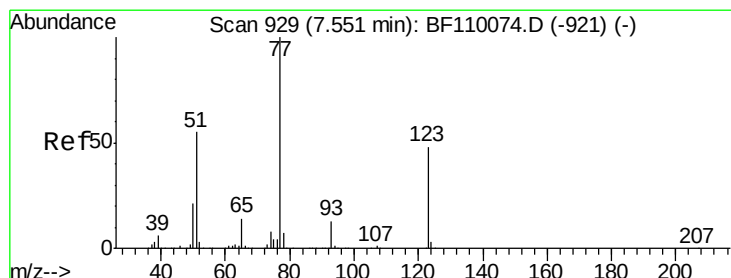
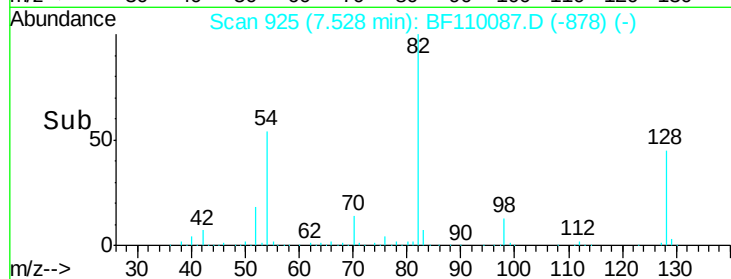
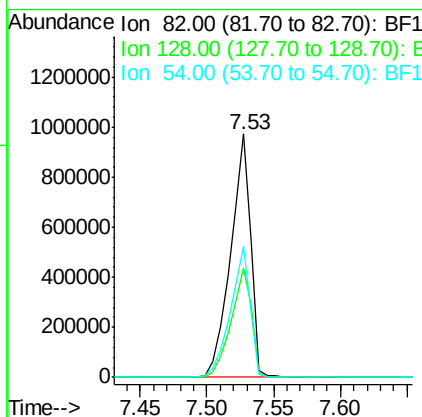
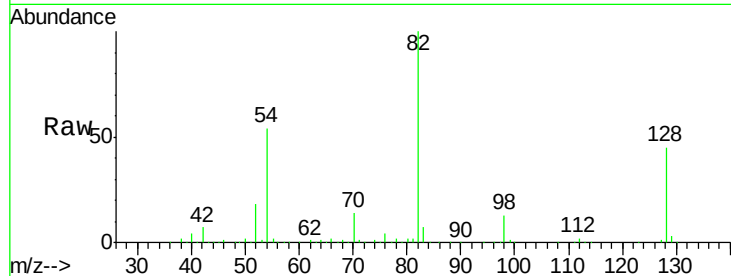
#23  
 Nitrobenzene-d5  
 Concen: 80.624 ng  
 RT: 7.53 min Scan# 925  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 82 Resp: 1033129  
 Ion Ratio Lower Upper  
 82 100  
 128 45.0 34.2 51.2  
 54 53.8 38.6 58.0

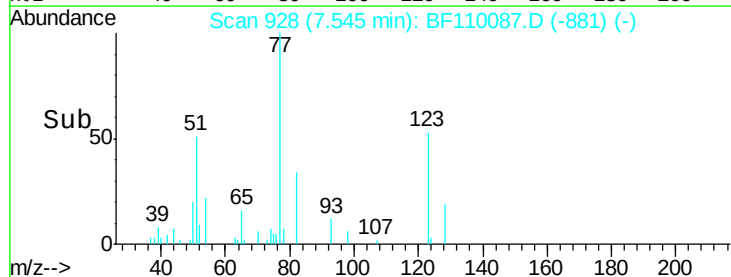
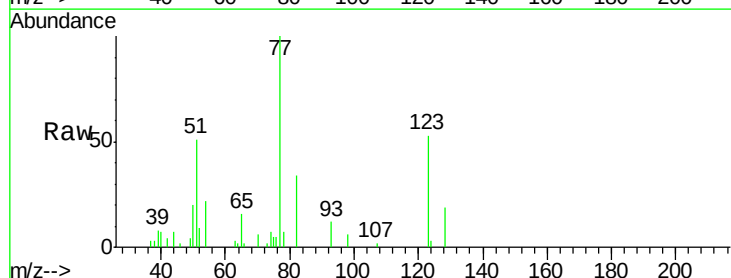
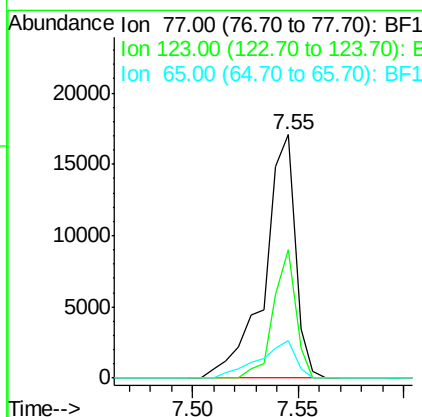
Manual Integrations  
 APPROVED

Sohil  
 10/24/2018 5:12:01 PM

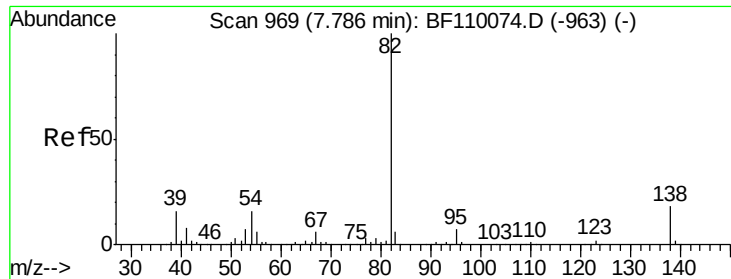


#24  
 Nitrobenzene  
 Concen: 1.308 ng  
 RT: 7.55 min Scan# 928  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Tgt Ion: 77 Resp: 17307  
 Ion Ratio Lower Upper  
 77 100  
 123 52.9 35.7 53.5  
 65 15.6 10.7 16.1







#25

Isophorone

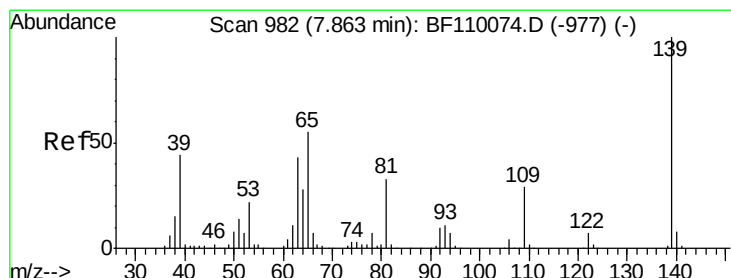
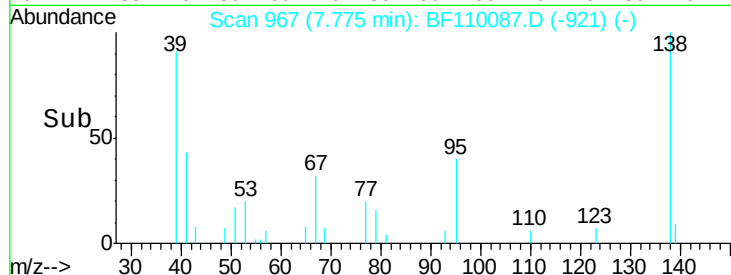
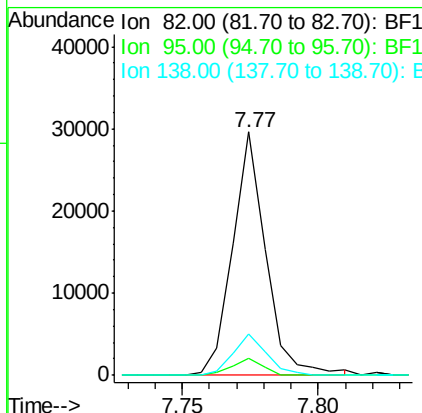
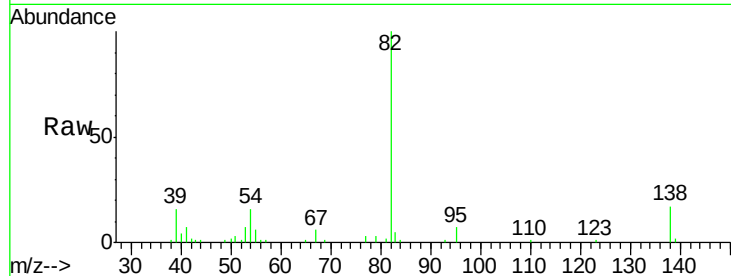
Concen: 1.163 ng m  
RT: 7.77 min Scan# 967  
Delta R.T. -0.03 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 6.8   | 5.7   | 8.5   |
| 138     | 17.1  | 13.2  | 19.8  |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM

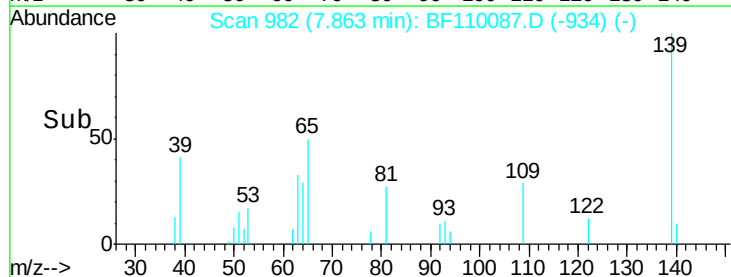
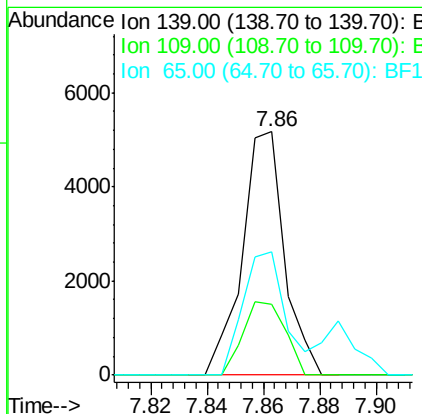
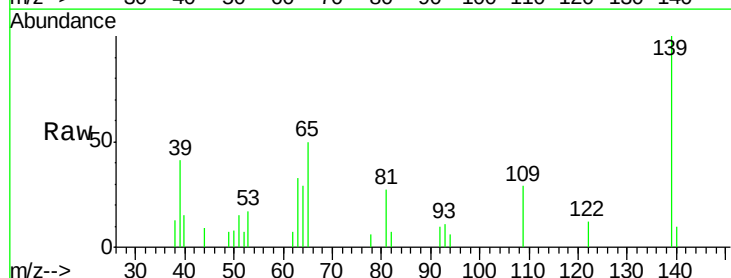


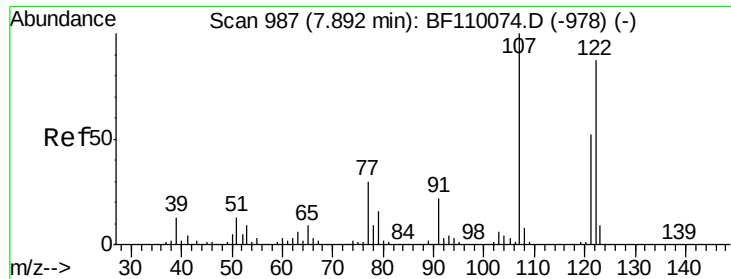
#26

2-Nitrophenol

Concen: 0.851 ng  
RT: 7.86 min Scan# 982  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 28.9  | 25.0  | 37.6  |
| 65      | 50.4  | 44.0  | 66.0  |





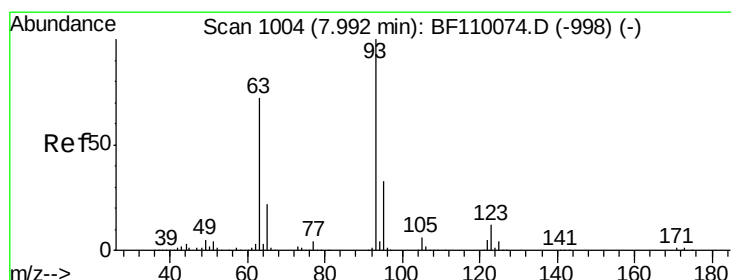
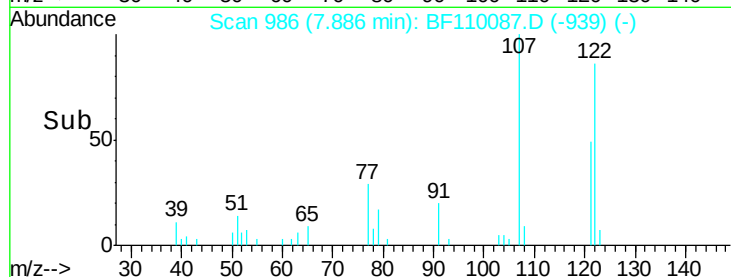
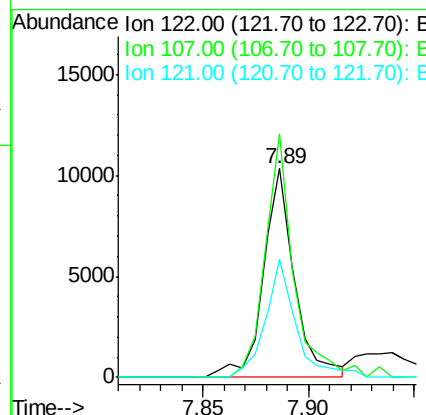
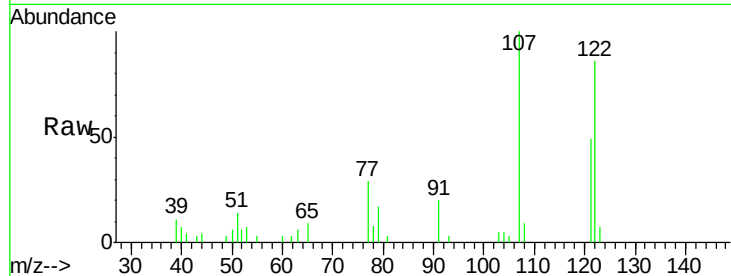
#27  
2,4-Dimethylphenol  
Concen: 1.018 ng  
RT: 7.89 min Scan# 986  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 116.6 | 92.5  | 138.7 |
| 121     | 56.7  | 45.8  | 68.8  |

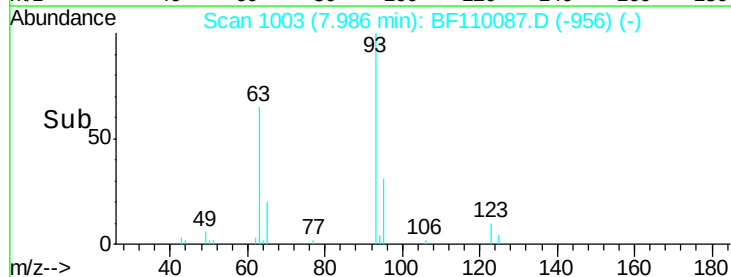
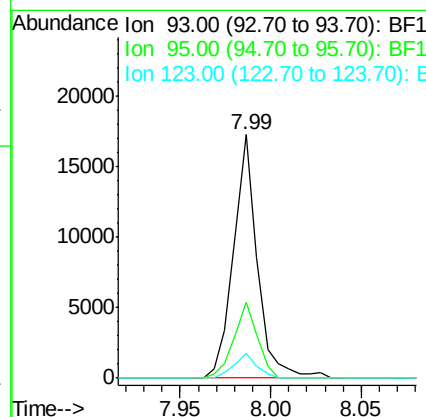
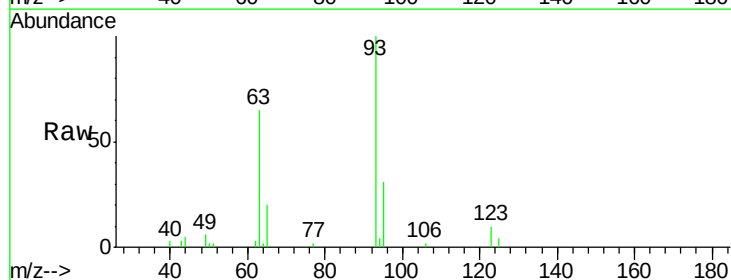
Manual Integrations  
APPROVED

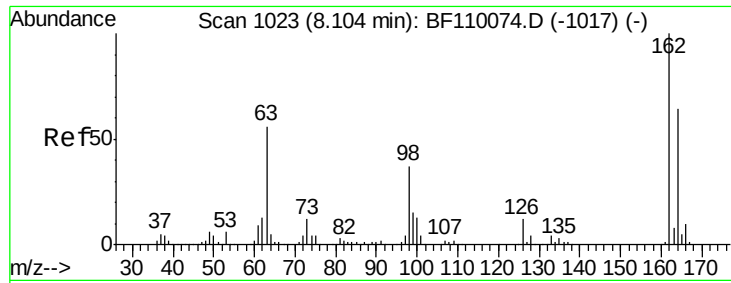
Sohil  
10/24/2018 5:12:01 PM



#28  
bis(2-Chloroethoxy)methane  
Concen: 1.081 ng  
RT: 7.99 min Scan# 1003  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 31.0  | 26.4  | 39.6  |
| 123     | 10.2  | 9.0   | 13.6  |





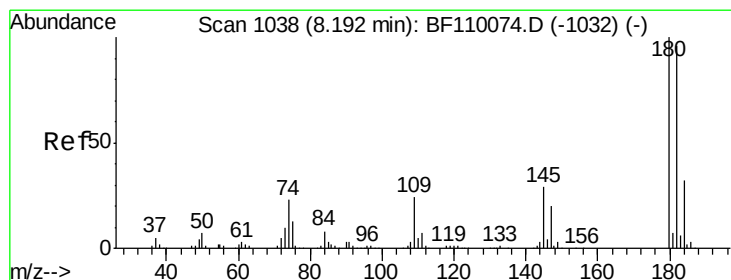
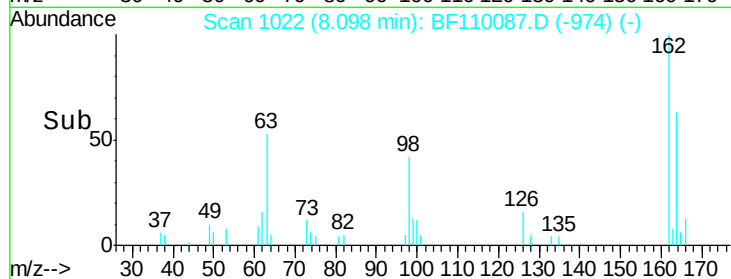
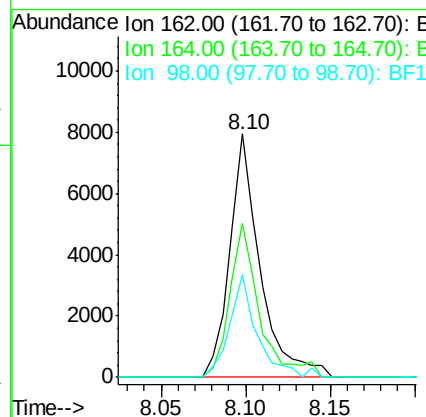
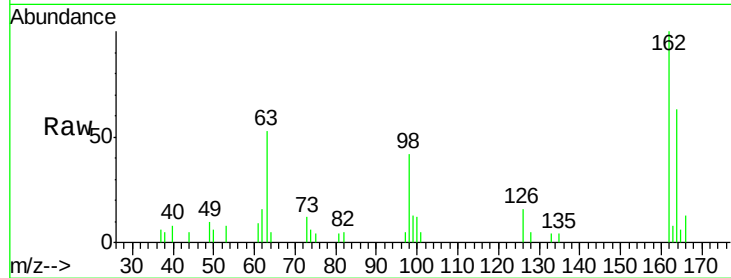
#29  
2,4-Dichlorophenol  
Concen: 0.940 ng  
RT: 8.10 min Scan# 1022  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 162   | Resp: | 9913 |
| Ion Ratio | Lower | Upper |      |
| 162       | 100   |       |      |
| 164       | 63.0  | 44.6  | 84.6 |
| 98        | 42.4  | 17.4  | 57.4 |

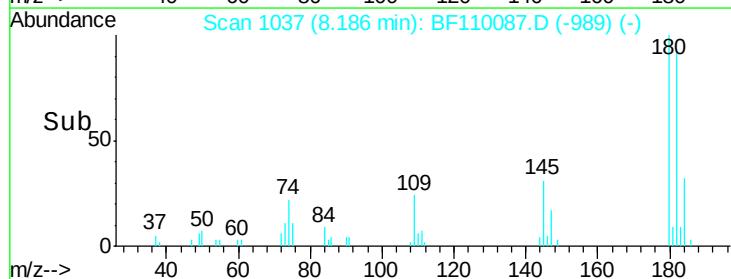
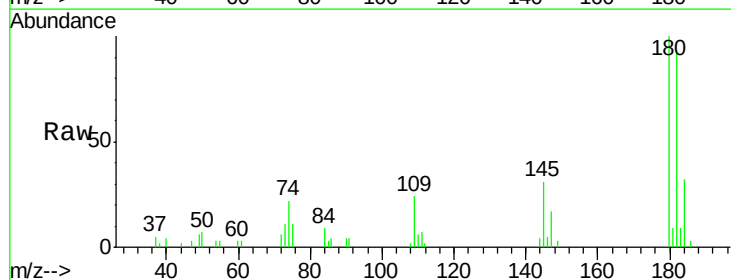
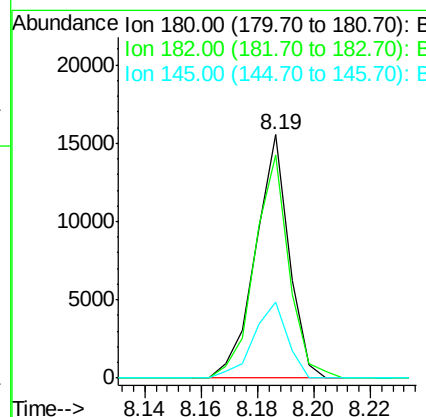
Manual Integrations  
APPROVED

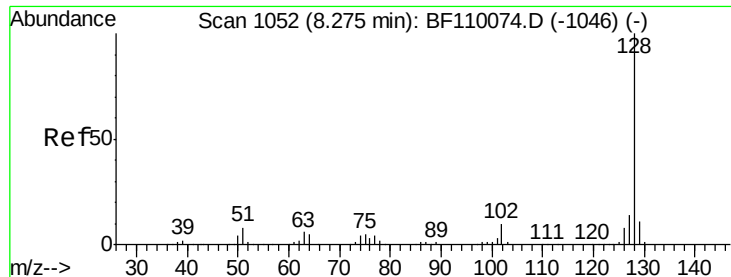
Sohil  
10/24/2018 5:12:01 PM



#30  
1,2,4-Trichlorobenzene  
Concen: 1.083 ng  
RT: 8.19 min Scan# 1037  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 12798 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 91.6  | 80.3  | 120.5 |
| 145       | 31.3  | 25.4  | 38.0  |





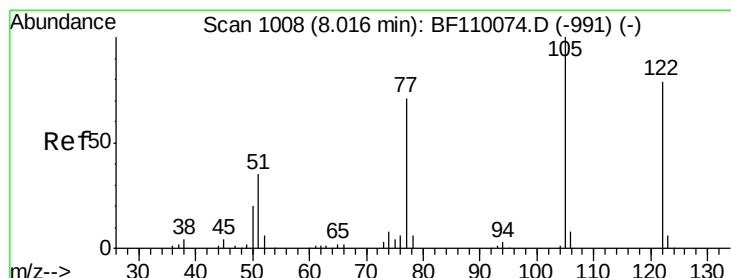
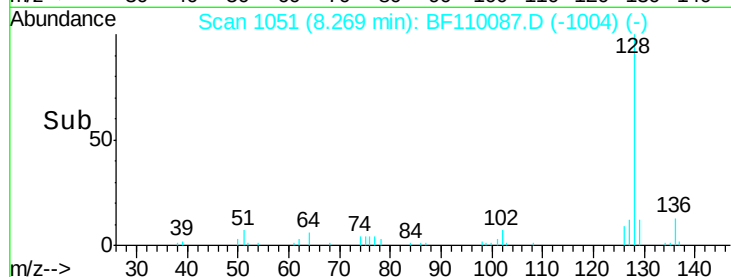
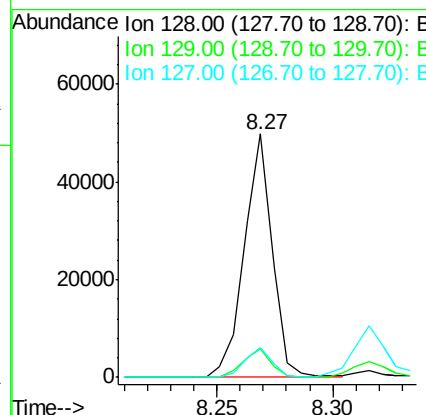
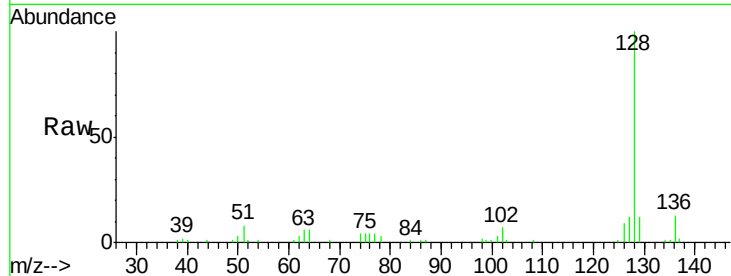
#31  
Naphthalene  
Concen: 1.210 ng  
RT: 8.27 min Scan# 1051  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 128     | 100   | 42396 |       |       |
| 129     | 11.6  |       | 8.8   | 13.2  |
| 127     | 12.3  |       | 10.8  | 16.2  |

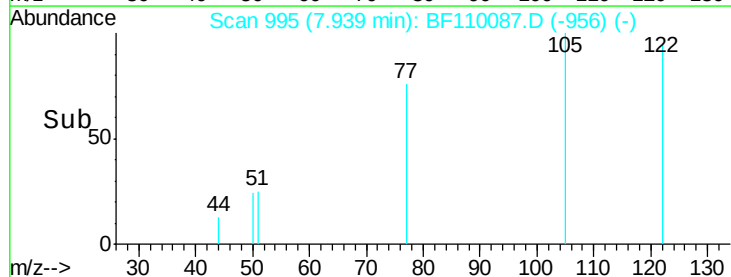
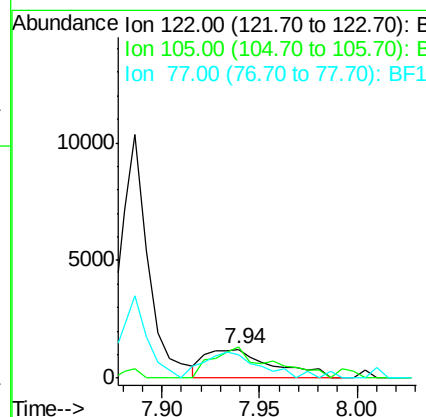
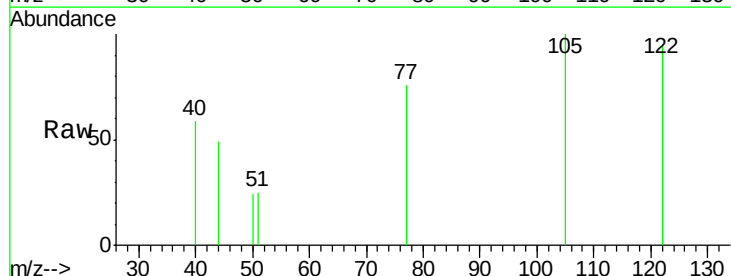
Manual Integrations  
APPROVED

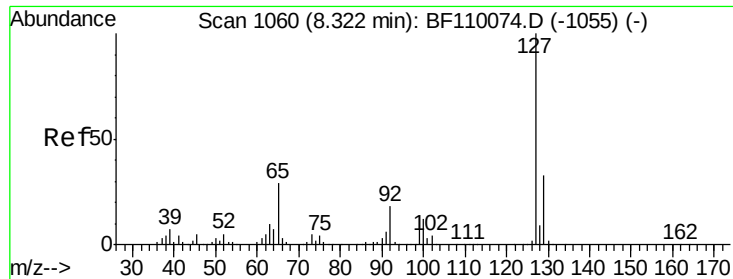
Sohil  
10/24/2018 5:12:01 PM



#32  
Benzoic acid  
Concen: 0.363 ng  
RT: 7.94 min Scan# 995  
Delta R.T. -0.07 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Resp | Lower | Upper  |
|---------|-------|------|-------|--------|
| 122     | 100   | 2930 |       |        |
| 105     | 105.7 |      | 109.0 | 149.0# |
| 77      | 80.6  |      | 79.0  | 119.0  |





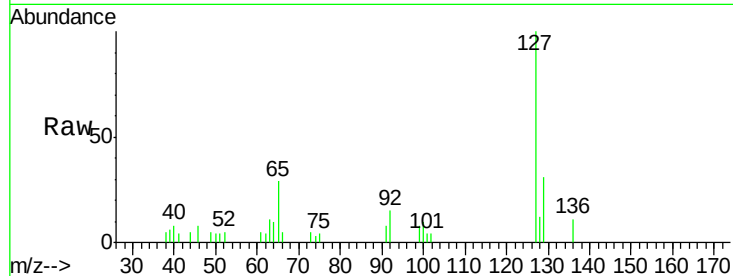
#33  
4-Chloroaniline  
Concen: 0.703 ng  
RT: 8.32 min Scan# 1059  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

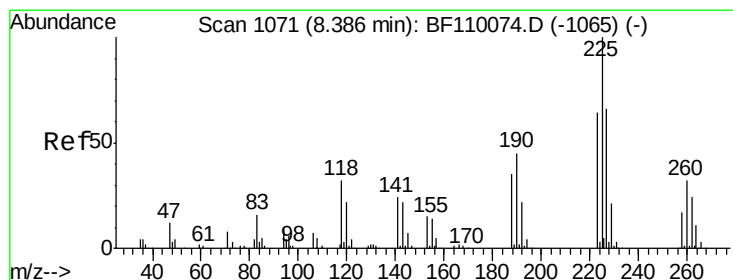
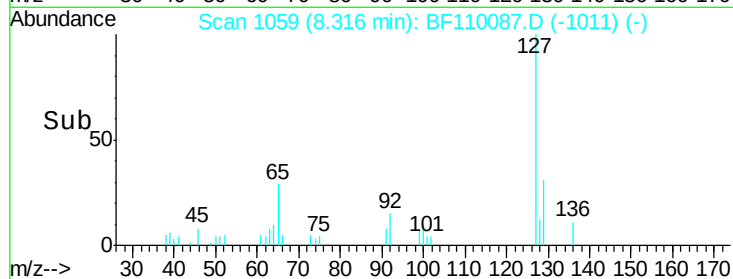
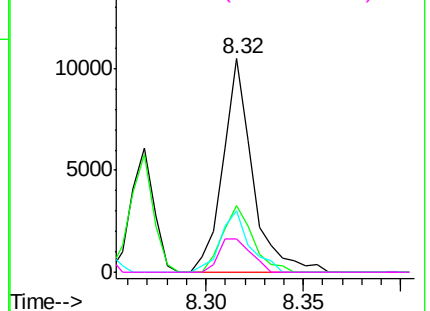
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 127     | 100   | 11084 |       |       |
| 129     | 31.1  | 26.0  | 39.0  |       |
| 65      | 28.8  | 25.1  | 37.7  |       |
| 92      | 15.3  | 15.0  | 22.6  |       |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM

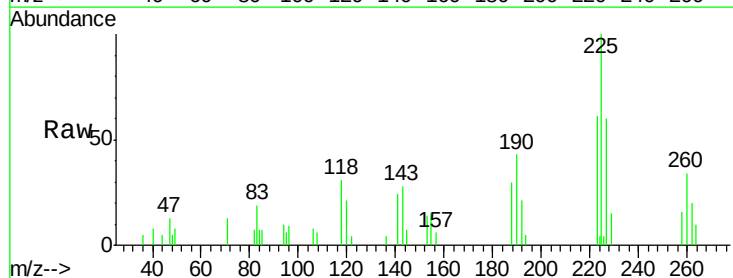


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1

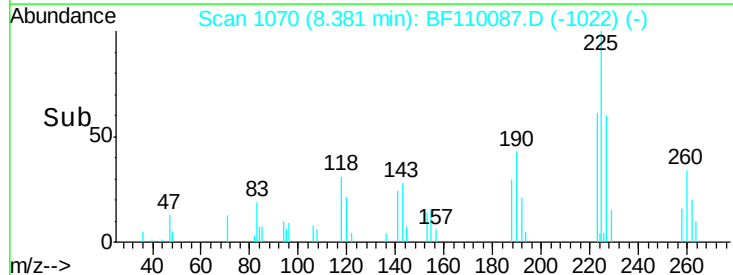
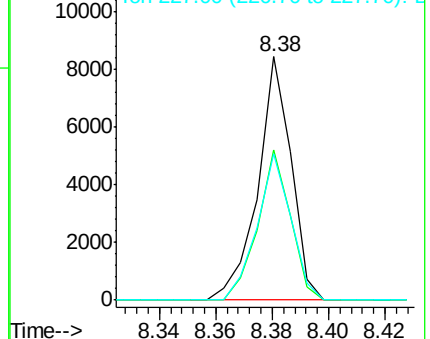


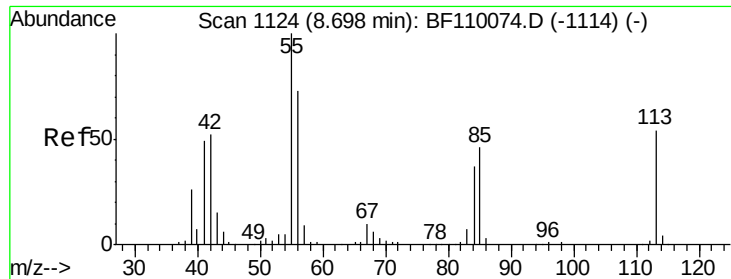
#34  
Hexachlorobutadiene  
Concen: 1.050 ng  
RT: 8.38 min Scan# 1070  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 225     | 100   | 6887 |       |       |
| 223     | 61.4  | 51.4 | 77.2  |       |
| 227     | 60.4  | 51.0 | 76.6  |       |



Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E





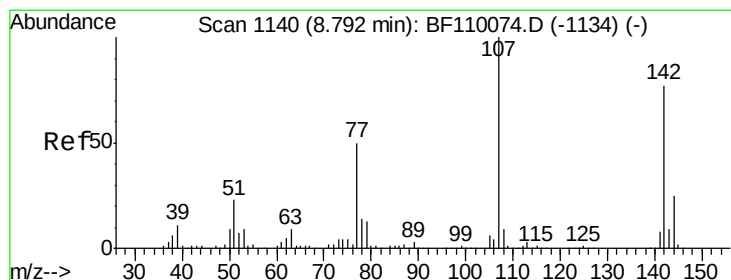
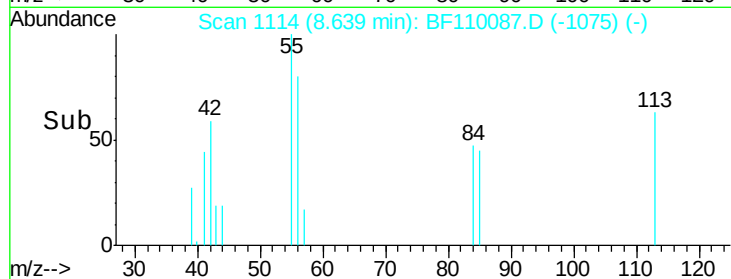
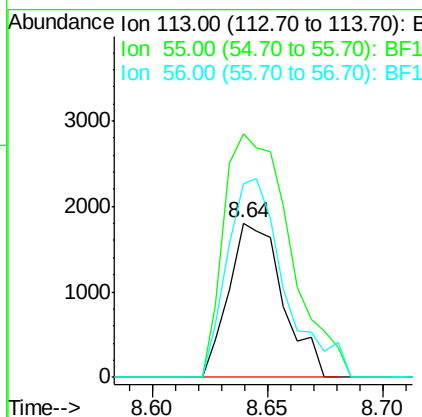
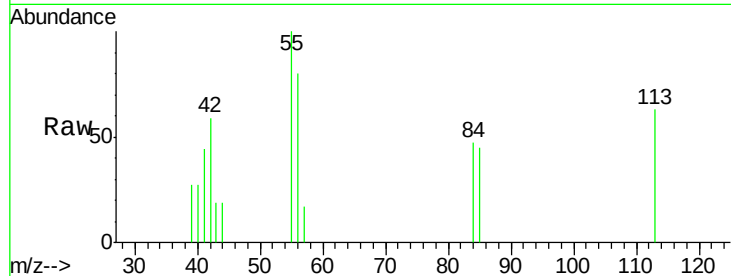
#35  
 Caprolactam  
 Concen: 0.798 ng  
 RT: 8.64 min Scan# 1114  
 Delta R.T. -0.07 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:113 Resp: 2934  
 Ion Ratio Lower Upper  
 113 100  
 55 157.7 142.8 182.8  
 56 125.5 105.0 145.0

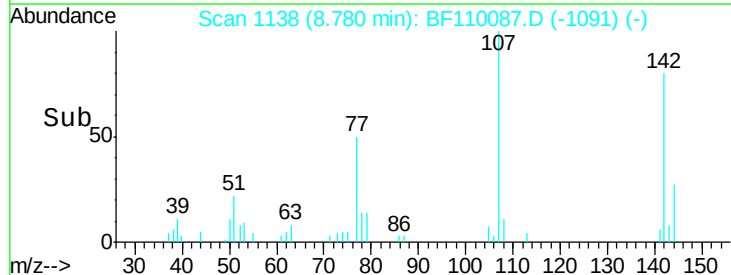
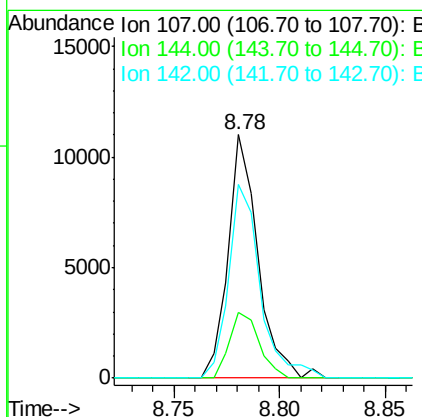
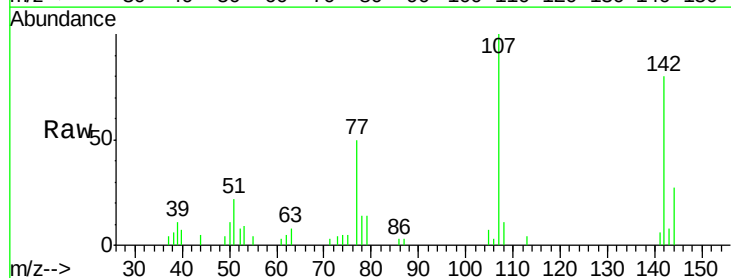
Manual Integrations  
 APPROVED

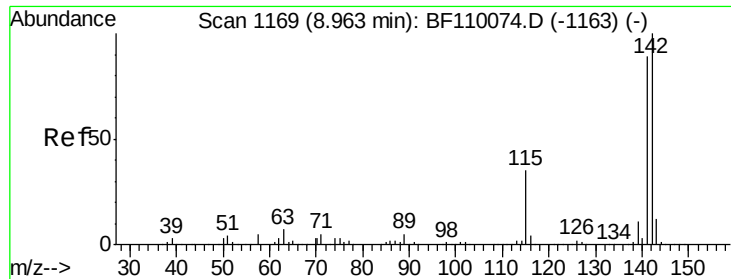
Sohil  
 10/24/2018 5:12:01 PM



#36  
 4-Chloro-3-methylphenol  
 Concen: 0.943 ng  
 RT: 8.78 min Scan# 1138  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Tgt Ion:107 Resp: 10754  
 Ion Ratio Lower Upper  
 107 100  
 144 27.2 20.0 30.0  
 142 79.5 59.7 89.5





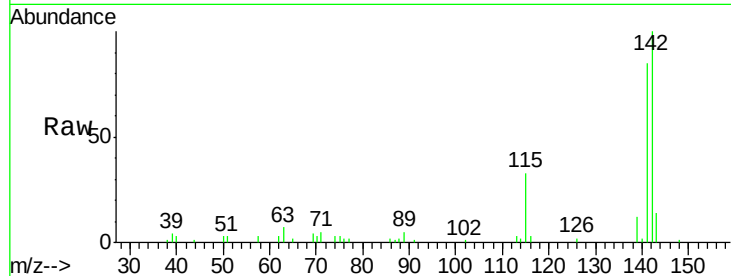
#37  
2-Methylnaphthalene  
Concen: 1.191 ng  
RT: 8.96 min Scan# 1169  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

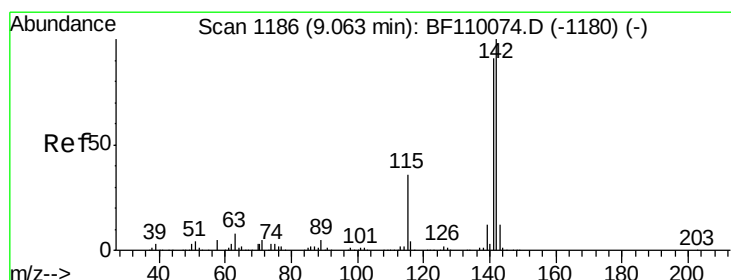
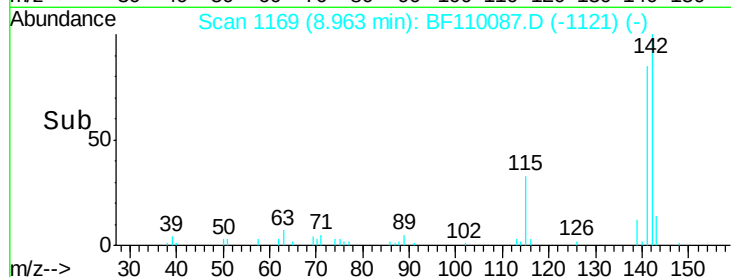
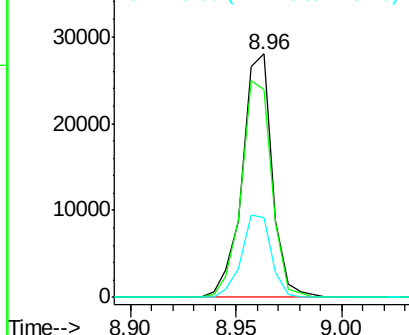
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.5  | 71.4  | 107.2 |
| 115     | 32.5  | 28.7  | 43.1  |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM

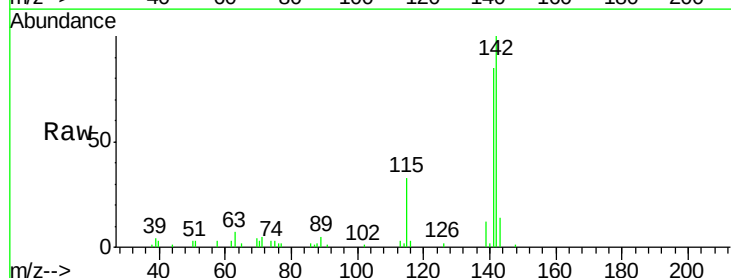


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

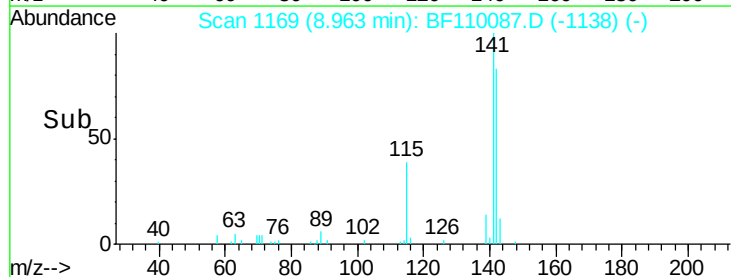
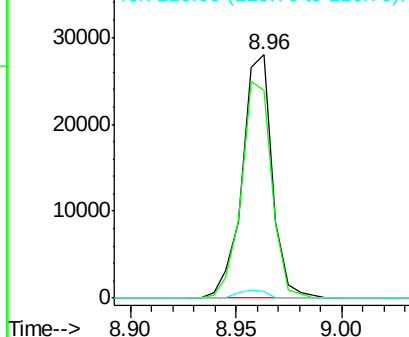


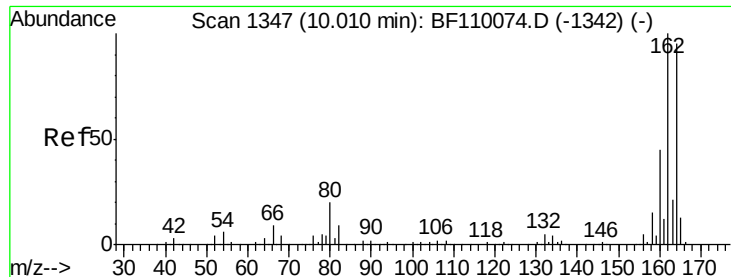
#38  
1-Methylnaphthalene  
Concen: 1.233 ng  
RT: 8.96 min Scan# 1169  
Delta R.T. -0.12 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.5  | 74.2  | 111.4 |
| 116     | 2.6   | 2.6   | 4.0   |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E





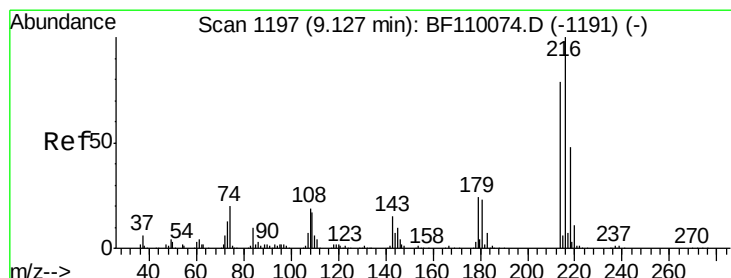
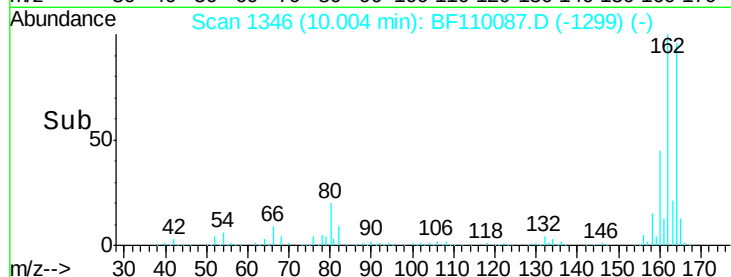
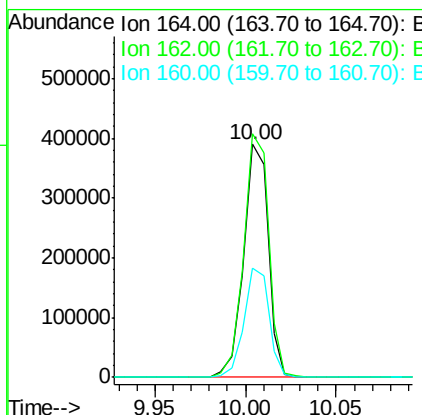
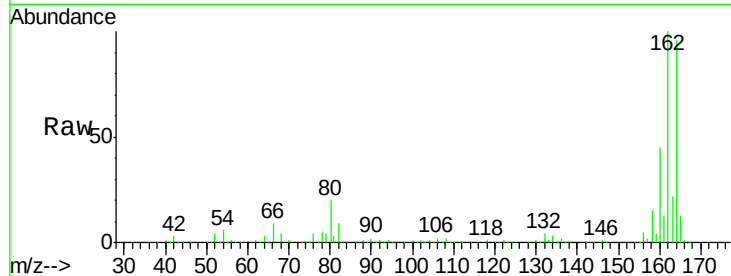
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.00 min Scan# 1346  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.4 | 83.0  | 124.6 |
| 160     | 46.9  | 37.0  | 55.6  |

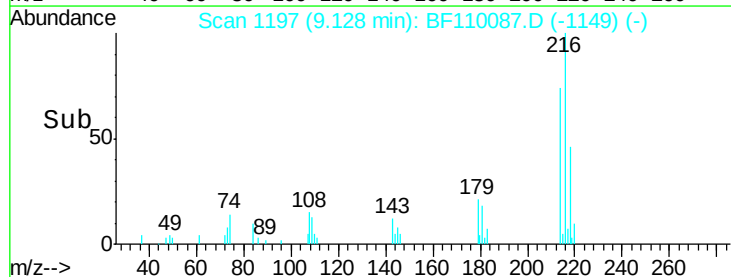
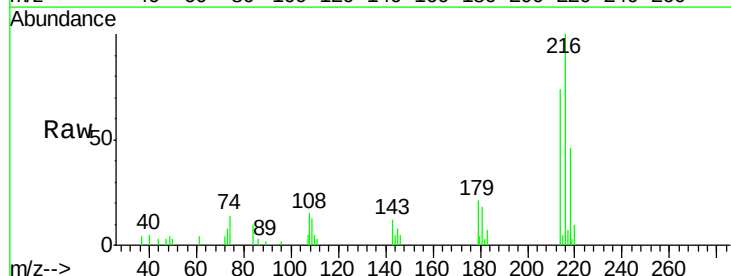
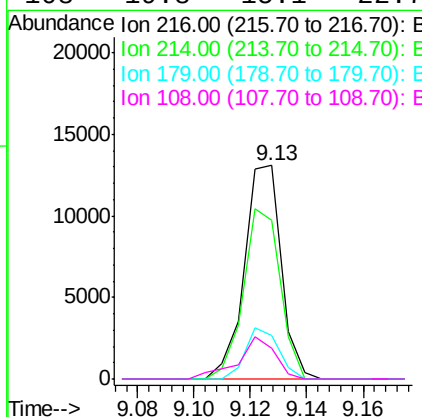
Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM

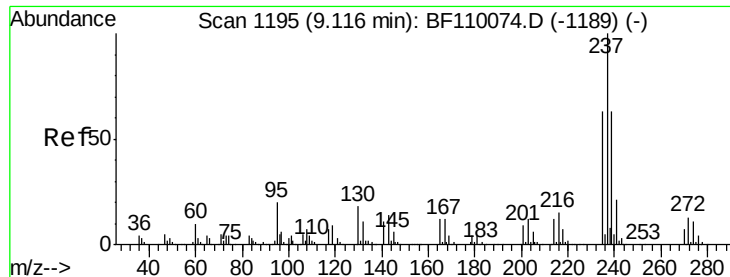


#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 1.039 ng  
RT: 9.13 min Scan# 1197  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 216     | 100   |       |       |
| 214     | 78.9  | 63.8  | 95.6  |
| 179     | 21.6  | 16.6  | 25.0  |
| 108     | 19.8  | 15.1  | 22.7  |







#41

Hexachlorocyclopentadiene

Concen: 0.795 ng

RT: 9.11 min Scan# 1194

Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

Instrument :

BNA\_F

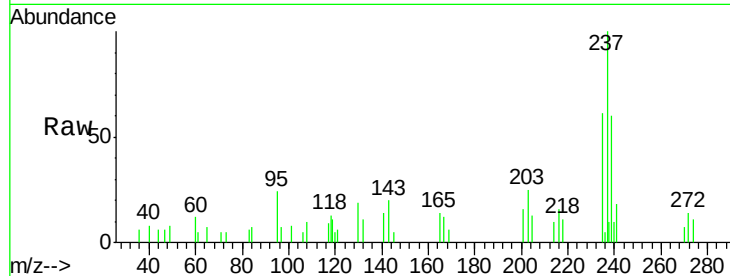
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

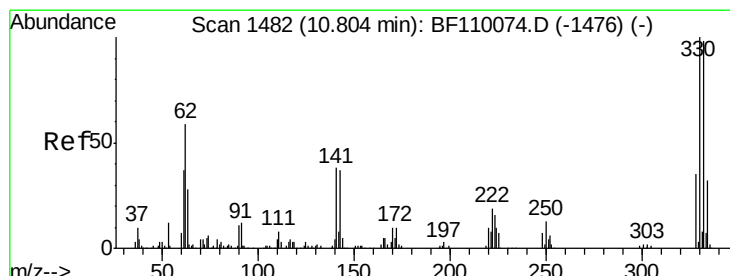
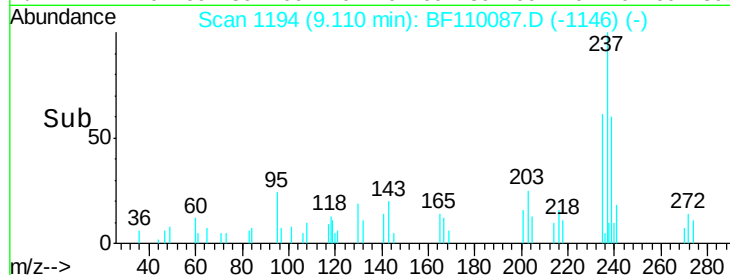
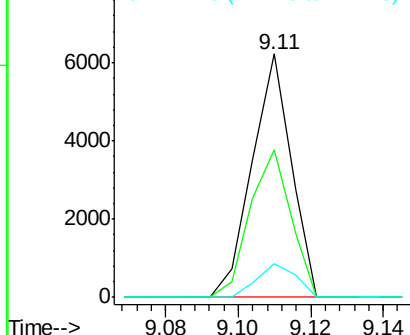
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 237   | Resp: | 4660 |
| Ion Ratio | Lower | Upper |      |
| 237       | 100   |       |      |
| 235       | 60.6  | 43.1  | 83.1 |
| 272       | 13.7  | 0.0   | 32.6 |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



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: 128.452 ng

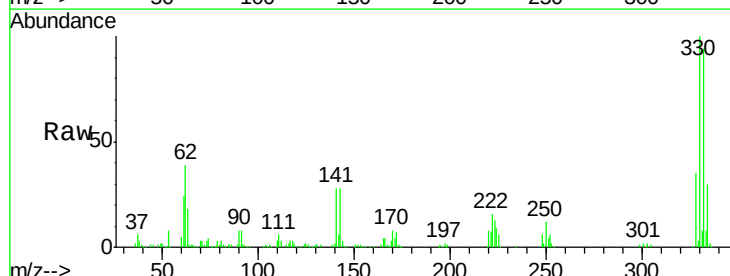
RT: 10.80 min Scan# 1482

Delta R.T. -0.01 min

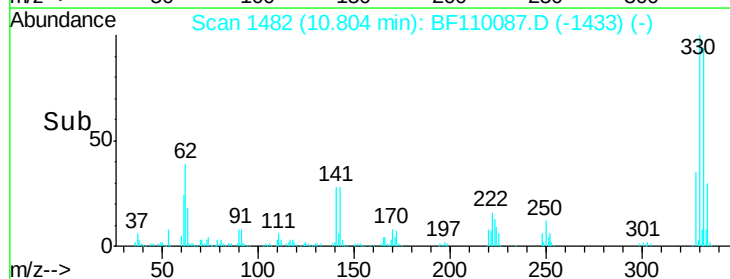
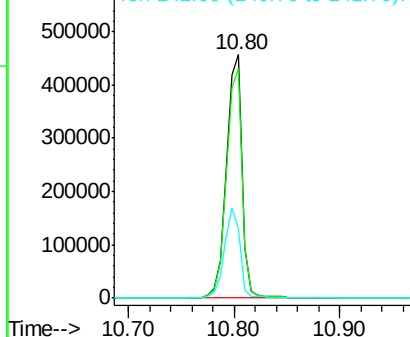
Lab File: BF110087.D

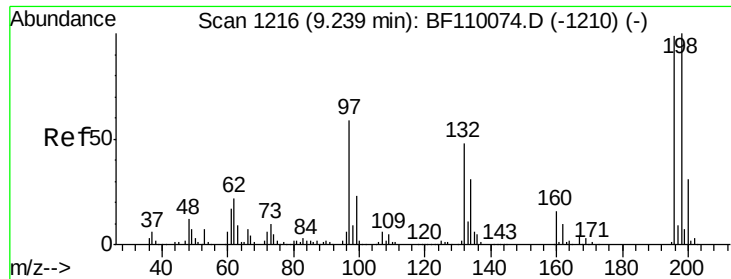
Acq: 23 Oct 2018 19:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 468257 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 94.9  | 77.1  | 115.7  |
| 141       | 37.0  | 27.0  | 40.4   |



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





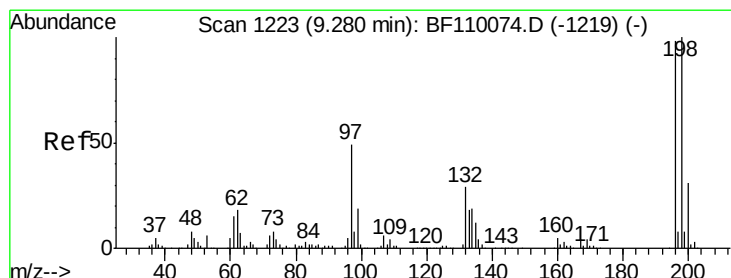
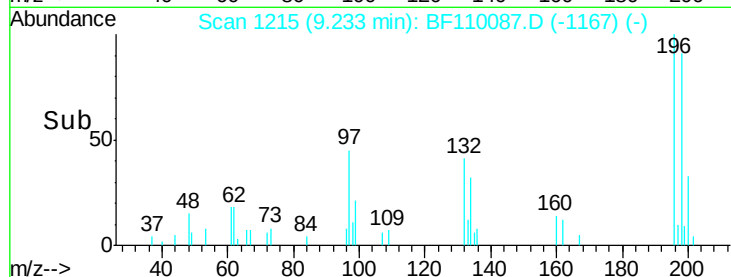
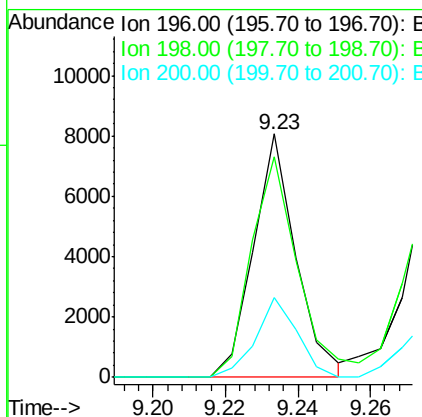
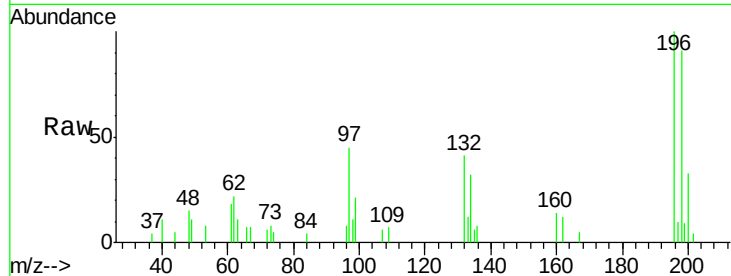
#43  
 2,4,6-Trichlorophenol  
 Concen: 0.886 ng  
 RT: 9.23 min Scan# 1215  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 196   | Resp: | 6554  |
| Ion Ratio | Lower | Upper |       |
| 196       | 100   |       |       |
| 198       | 90.7  | 76.2  | 114.4 |
| 200       | 32.8  | 24.4  | 36.6  |

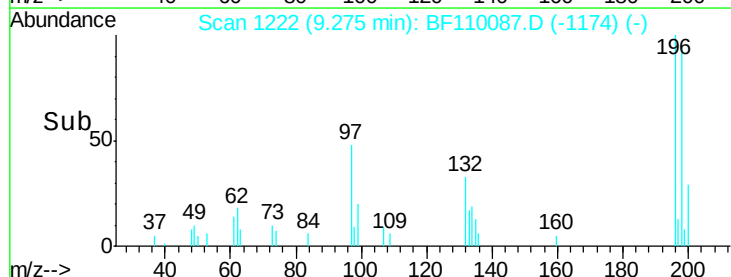
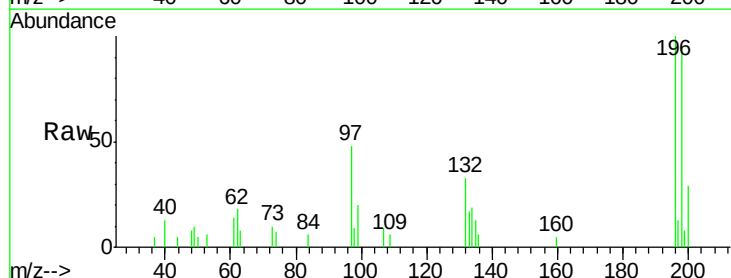
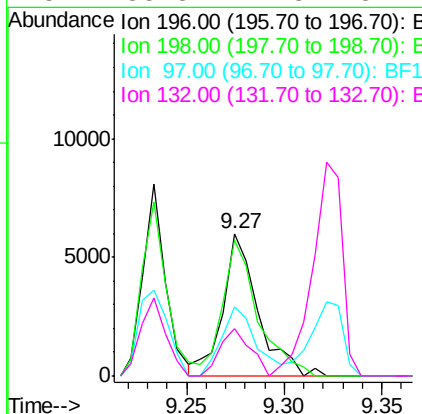
Manual Integrations  
 APPROVED

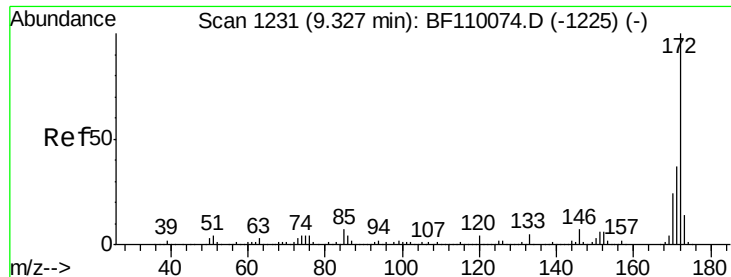
Sohil  
 10/24/2018 5:12:01 PM



#44  
 2,4,5-Trichlorophenol  
 Concen: 0.957 ng  
 RT: 9.27 min Scan# 1222  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 196   | Resp: | 7483  |
| Ion Ratio | Lower | Upper |       |
| 196       | 100   |       |       |
| 198       | 95.5  | 75.8  | 113.6 |
| 97        | 48.2  | 42.4  | 63.6  |
| 132       | 33.3  | 22.8  | 34.2  |





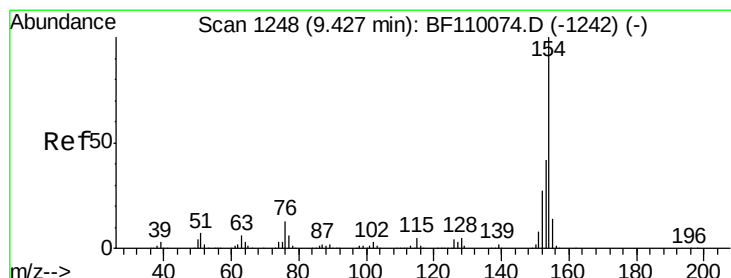
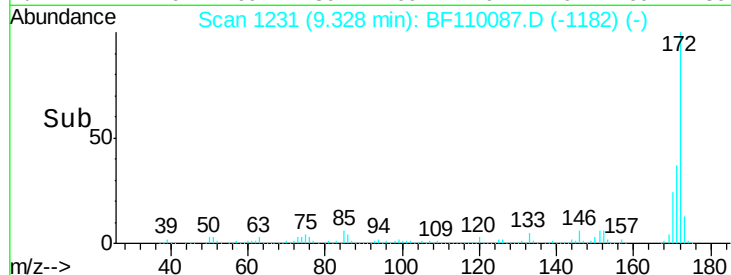
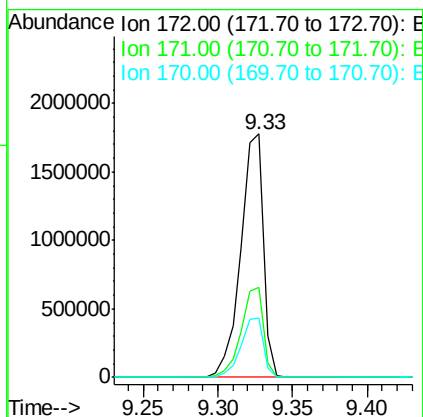
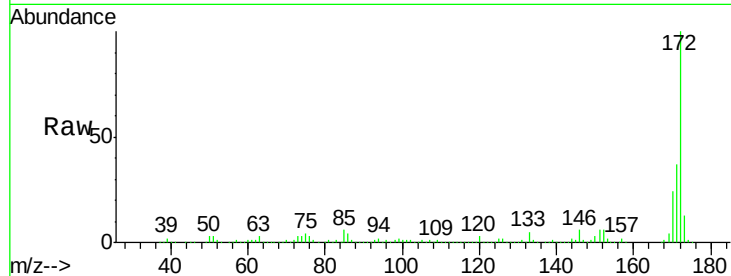
#45  
2-Fluorobiphenyl  
Concen: 80.560 ng  
RT: 9.33 min Scan# 1231  
Delta R.T. -0.01 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 28.6  | 43.0  |
| 170     | 24.2  | 19.7  | 29.5  |

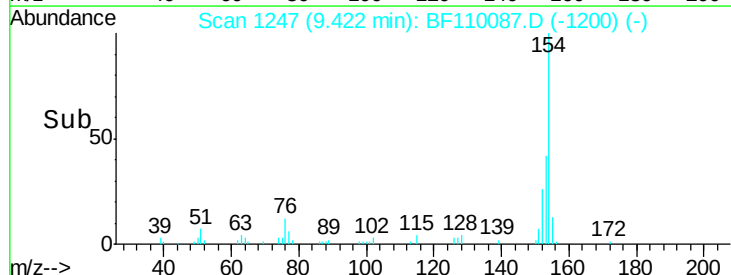
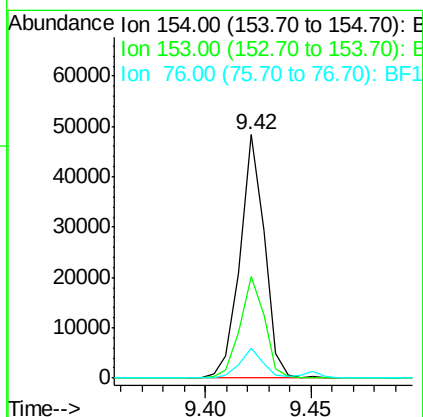
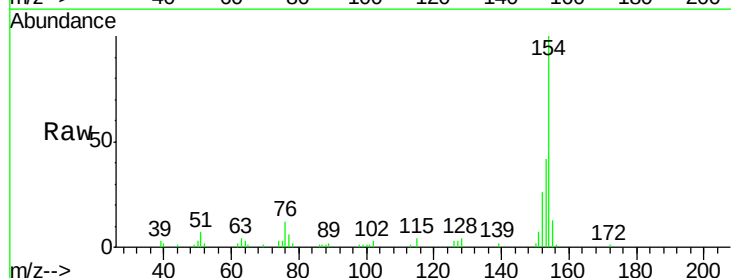
Manual Integrations  
APPROVED

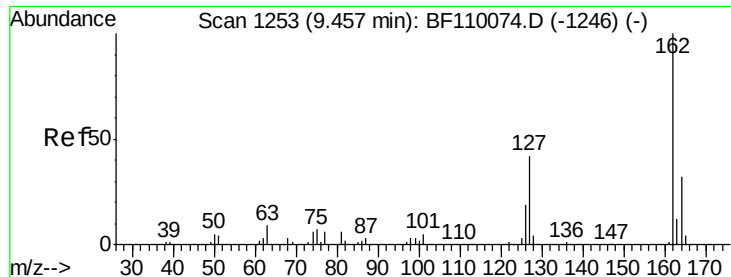
Sohil  
10/24/2018 5:12:01 PM



#46  
1,1'-Biphenyl  
Concen: 1.159 ng  
RT: 9.42 min Scan# 1247  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 41.6  | 20.4  | 60.4  |
| 76      | 12.1  | 0.0   | 31.9  |





#47

2-Chloronaphthalene

Concen: 1.106 ng

RT: 9.45 min Scan# 1252

Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

Instrument :

BNA\_F

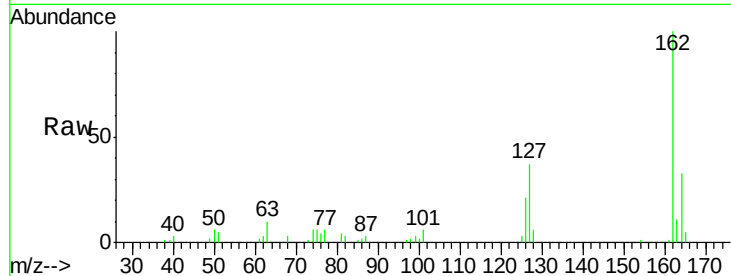
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

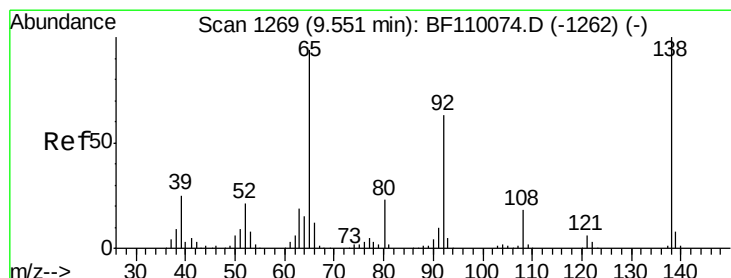
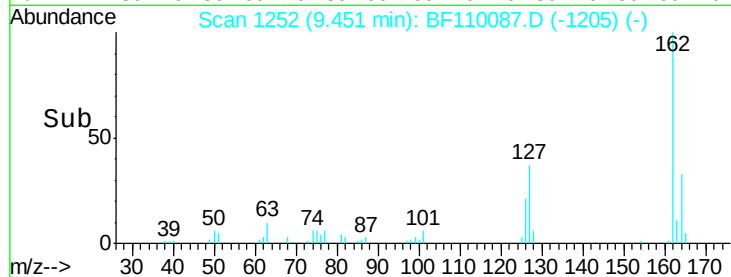
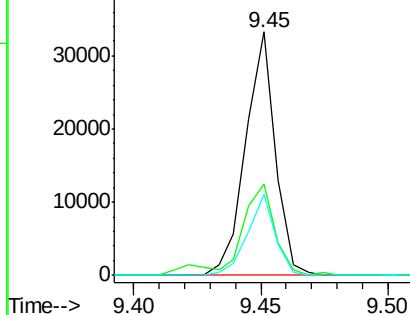
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 162   | Resp: | 27011 |
| Ion Ratio | Lower | Upper |       |
| 162       | 100   |       |       |
| 127       | 37.5  | 32.6  | 48.8  |
| 164       | 33.3  | 25.9  | 38.9  |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



Abundance Ion 162.00 (161.70 to 162.70): E  
Ion 127.00 (126.70 to 127.70): E  
Ion 164.00 (163.70 to 164.70): E



#48

2-Nitroaniline

Concen: 0.932 ng

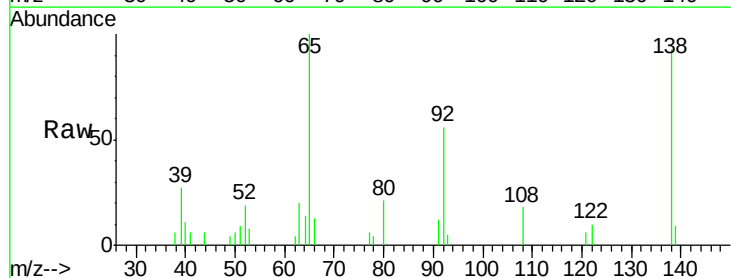
RT: 9.55 min Scan# 1268

Delta R.T. -0.02 min

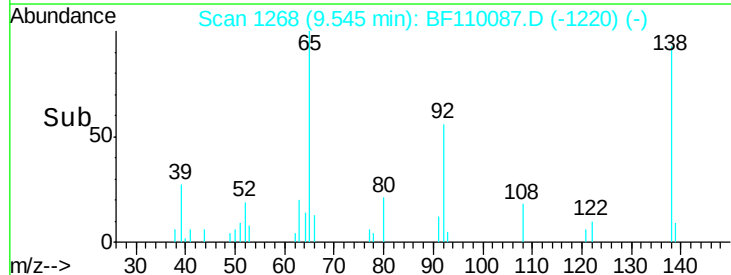
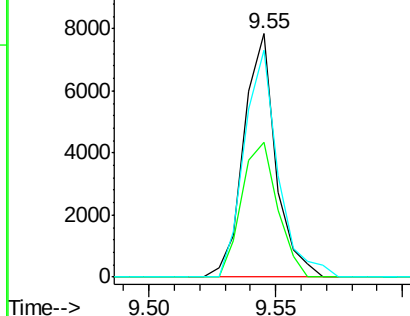
Lab File: BF110087.D

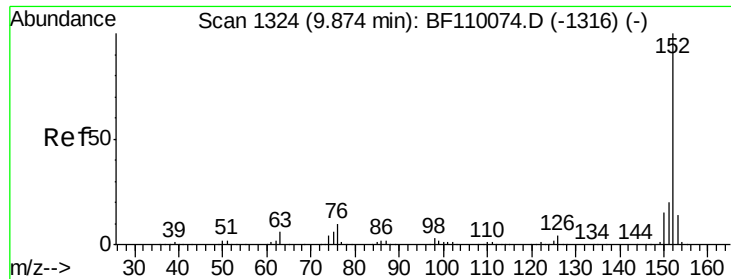
Acq: 23 Oct 2018 19:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 65    | Resp: | 6897  |
| Ion Ratio | Lower | Upper |       |
| 65        | 100   |       |       |
| 92        | 55.6  | 54.6  | 81.8  |
| 138       | 93.5  | 80.3  | 120.5 |



Abundance Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1  
Ion 138.00 (137.70 to 138.70): E





#49

Acenaphthylene

Concen: 1.169 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF110087.D

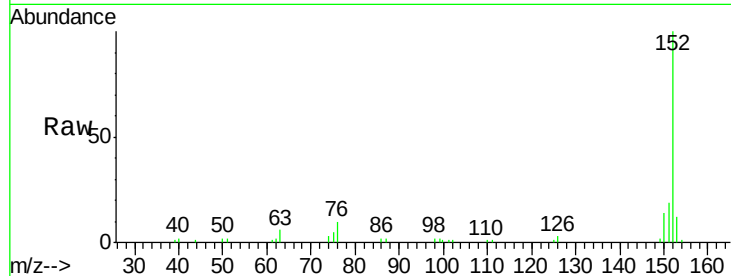
Acq: 23 Oct 2018 19:42

Instrument :

BNA\_F

ClientSampleId :

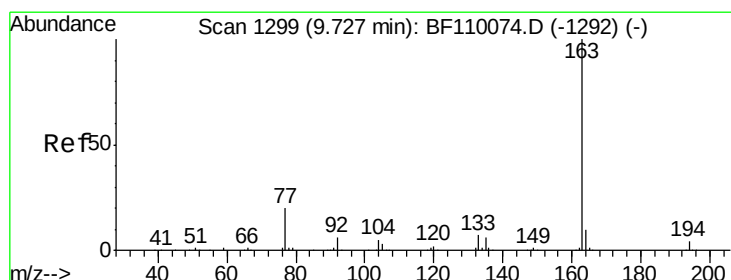
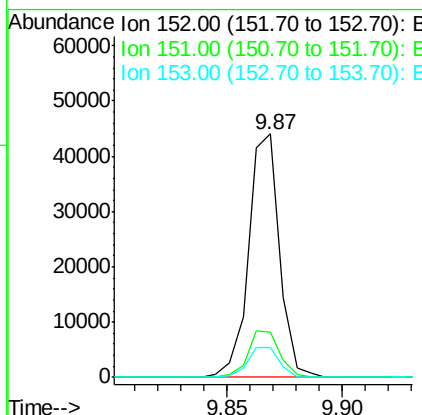
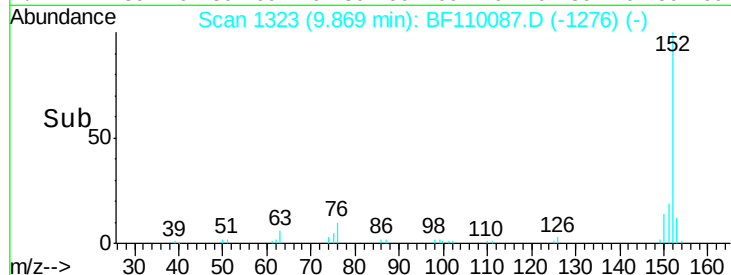
MDL-MDL-SOIL-03-QT4-2018



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 41214 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 18.7  | 15.8  | 23.8  |
| 153       | 12.5  | 10.4  | 15.6  |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



#50

Dimethylphthalate

Concen: 1.108 ng

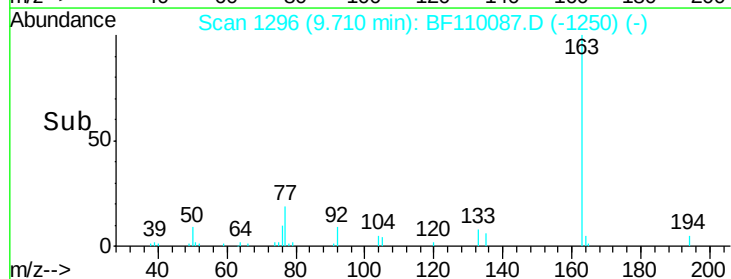
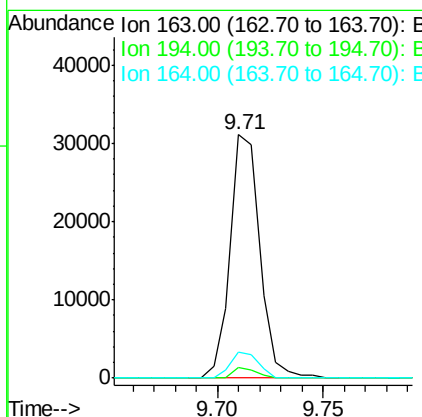
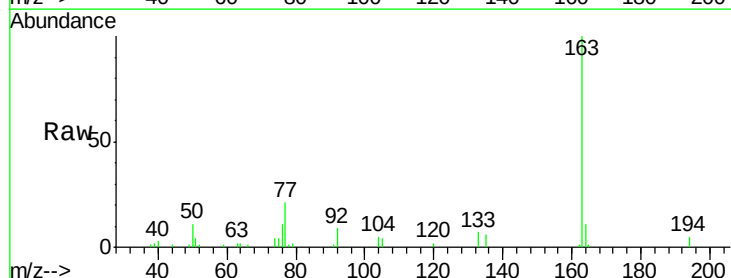
RT: 9.71 min Scan# 1296

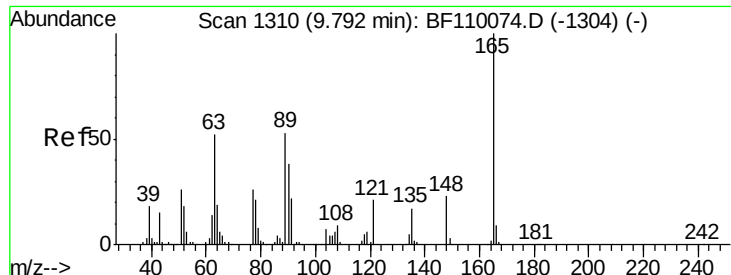
Delta R.T. -0.03 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 30107 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.5   | 3.2   | 4.8   |
| 164       | 10.7  | 8.1   | 12.1  |





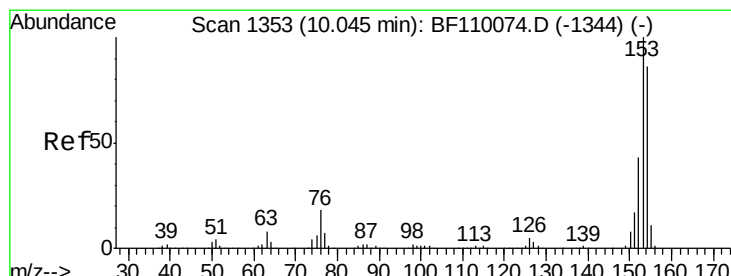
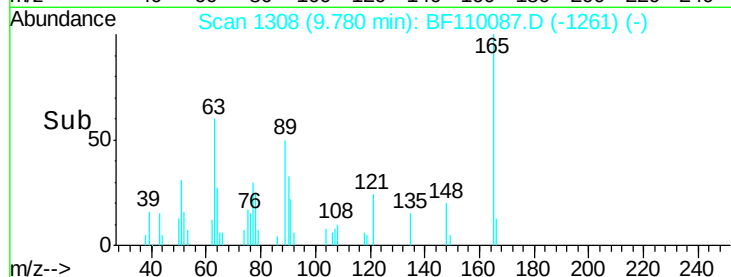
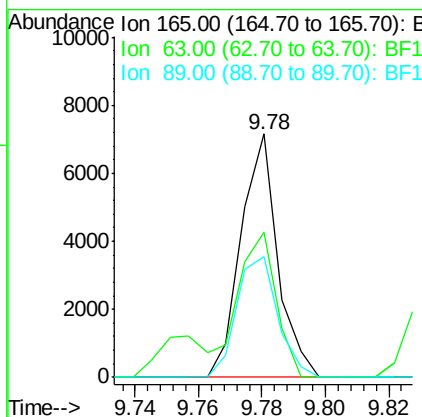
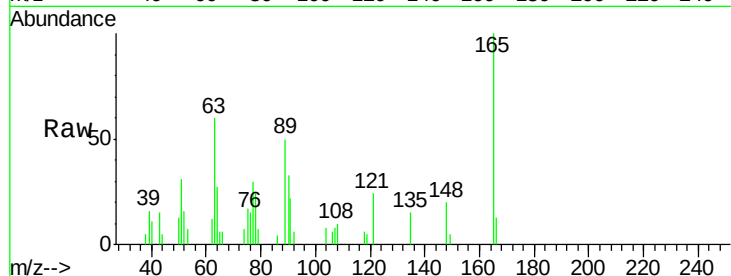
#51  
 2,6-Dinitrotoluene  
 Concen: 0.979 ng  
 RT: 9.78 min Scan# 1308  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 165     | 100   | 5726 |       |       |
| 63      | 59.8  | 48.9 | 73.3  |       |
| 89      | 49.7  | 46.6 | 69.8  |       |

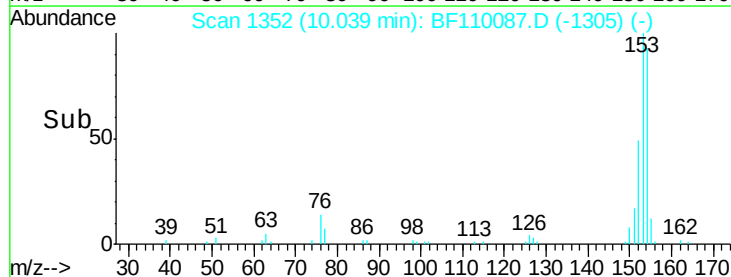
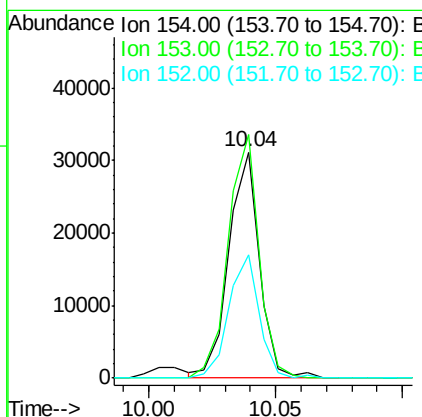
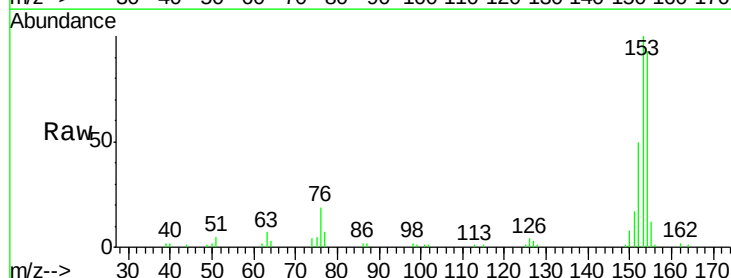
Manual Integrations  
 APPROVED

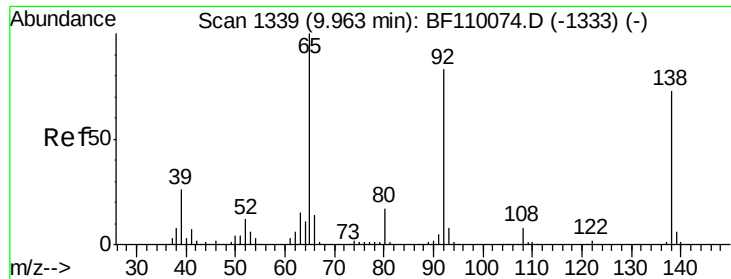
Sohil  
 10/24/2018 5:12:01 PM



#52  
 Acenaphthene  
 Concen: 1.120 ng  
 RT: 10.04 min Scan# 1352  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 26118 |       |       |
| 153     | 107.7 | 90.1  | 135.1 |       |
| 152     | 54.4  | 43.4  | 65.2  |       |





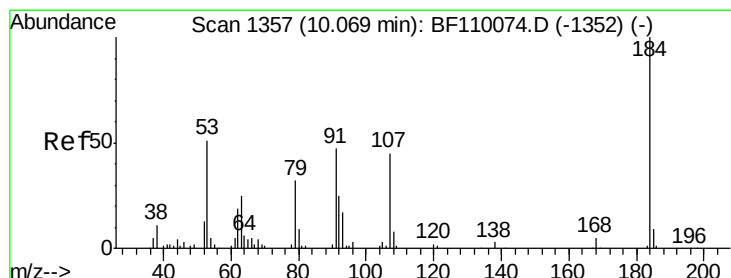
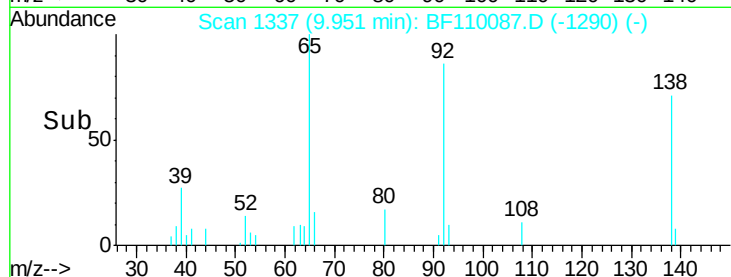
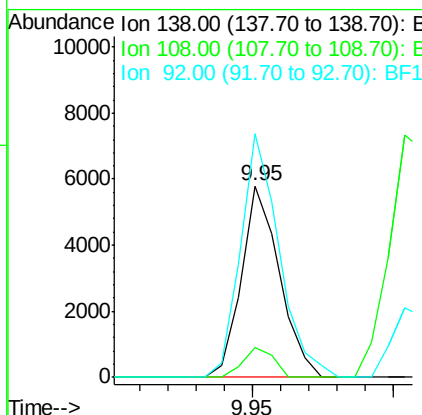
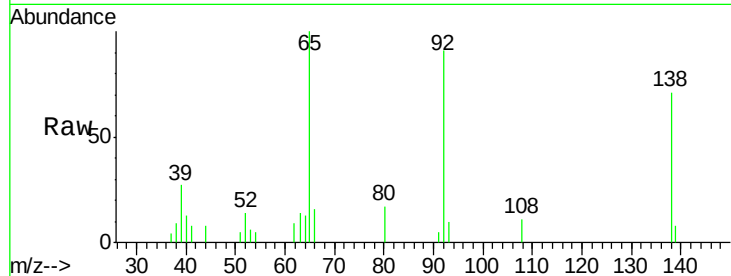
#53  
3-Nitroaniline  
Concen: 0.780 ng  
RT: 9.95 min Scan# 1337  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:138 Resp: 5427  
Ion Ratio Lower Upper  
138 100  
108 15.8 8.7 13.1#  
92 127.4 97.0 145.4

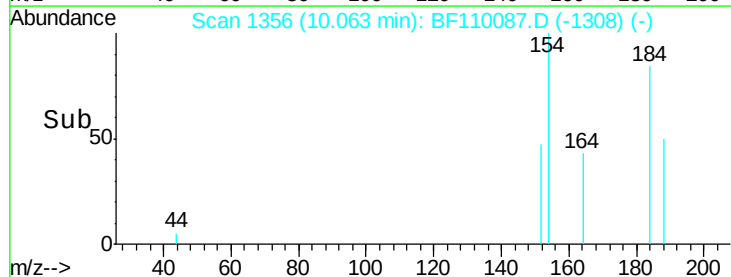
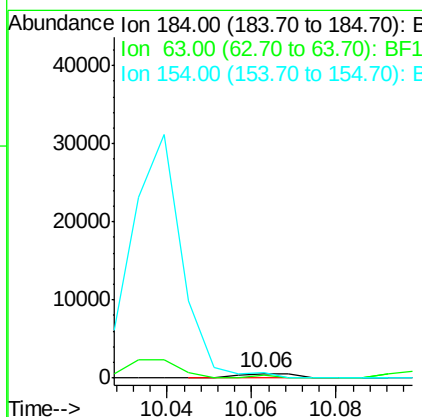
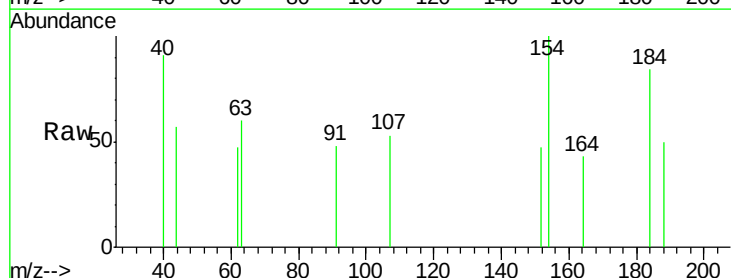
Manual Integrations  
APPROVED

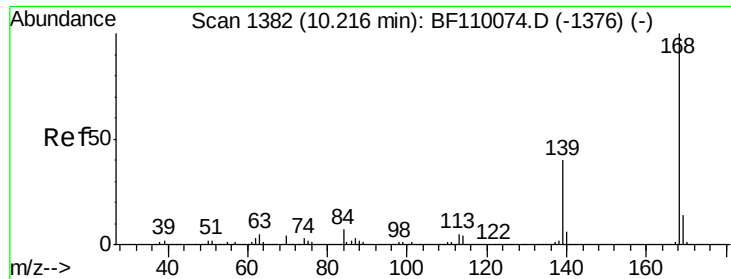
Sohil  
10/24/2018 5:12:01 PM



#54  
2,4-Dinitrophenol  
Concen: 5.372 ng  
RT: 10.06 min Scan# 1356  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Tgt Ion:184 Resp: 490  
Ion Ratio Lower Upper  
184 100  
63 71.6 55.8 83.6  
154 118.8 63.2 94.8#





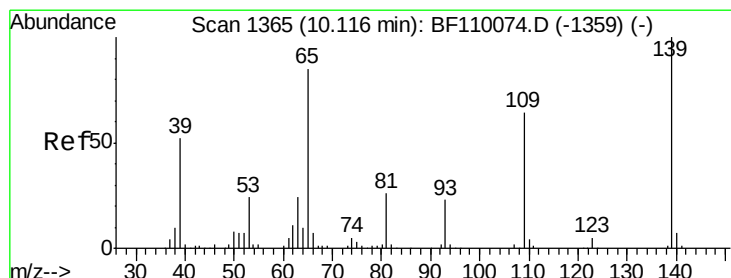
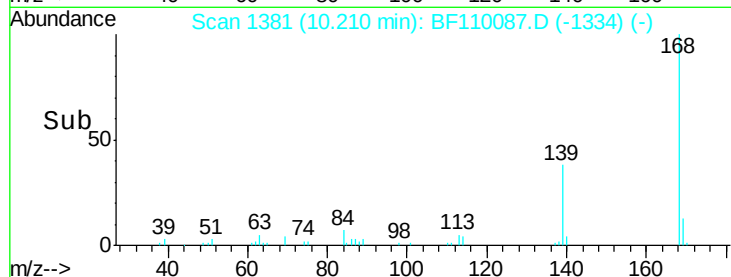
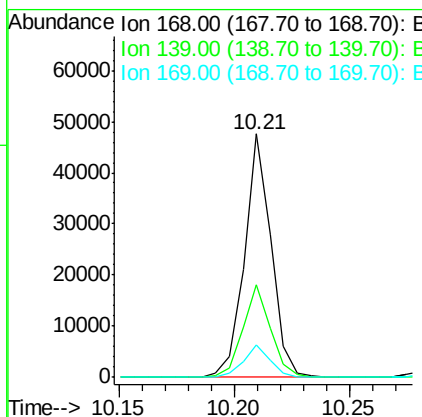
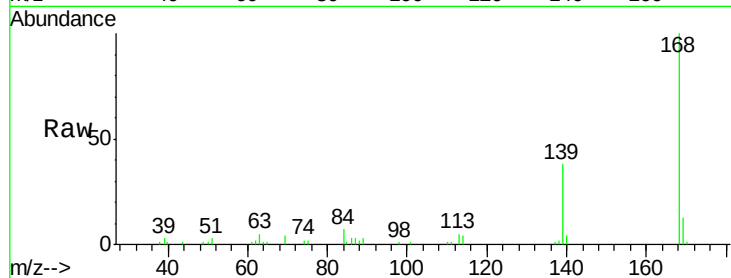
#55  
Dibenzenofuran  
Concen: 1.178 ng  
RT: 10.21 min Scan# 1381  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 37.8  | 33.0  | 49.6  |
| 169     | 13.4  | 11.3  | 16.9  |

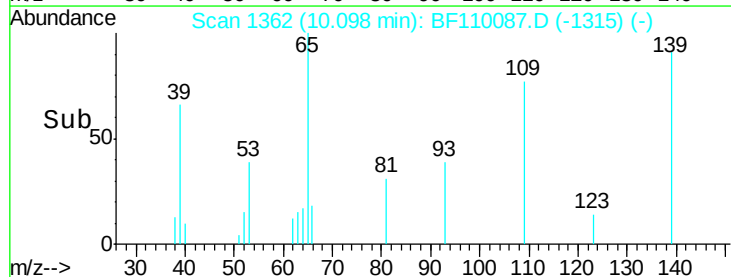
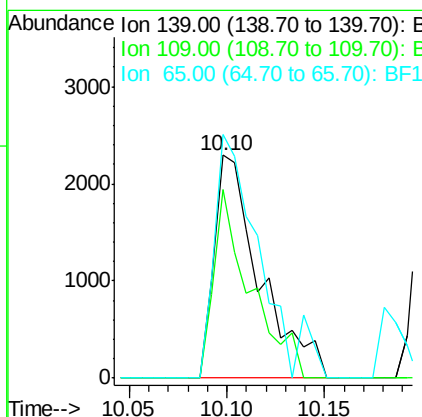
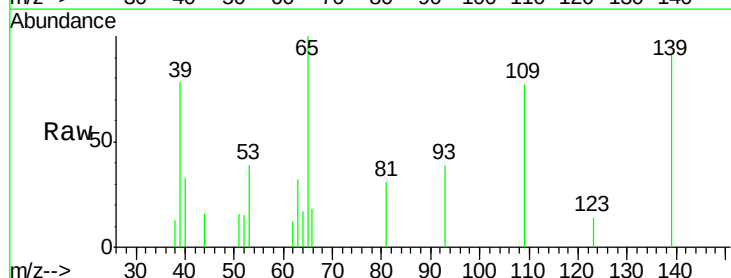
Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM

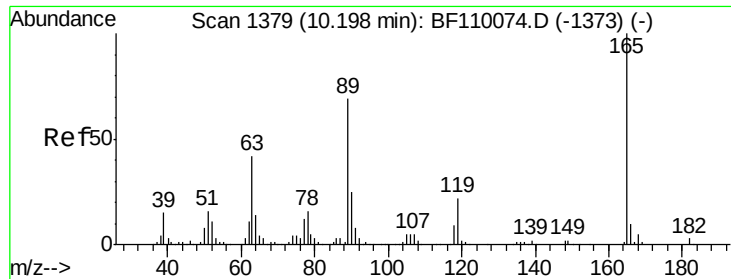


#56  
4-Nitrophenol  
Concen: 0.727 ng  
RT: 10.10 min Scan# 1362  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 84.7  | 55.8  | 95.8  |
| 65      | 109.4 | 77.9  | 117.9 |







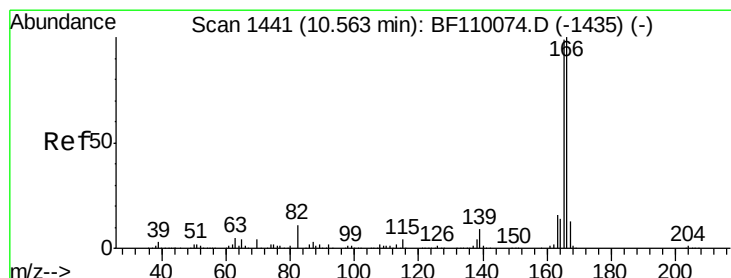
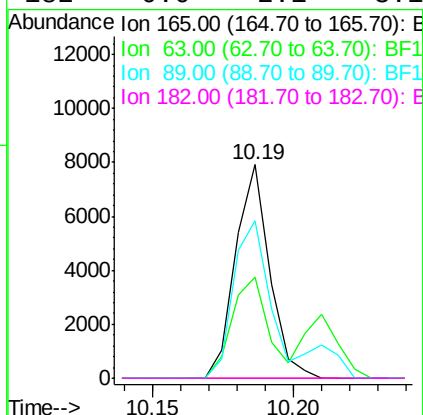
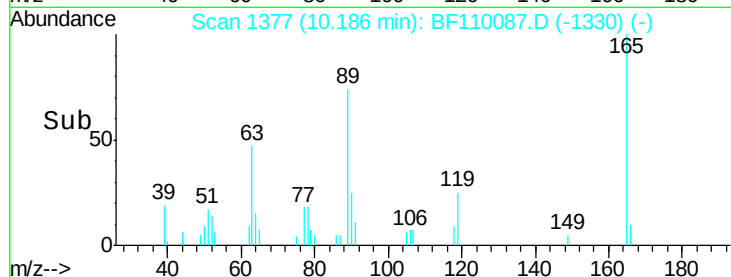
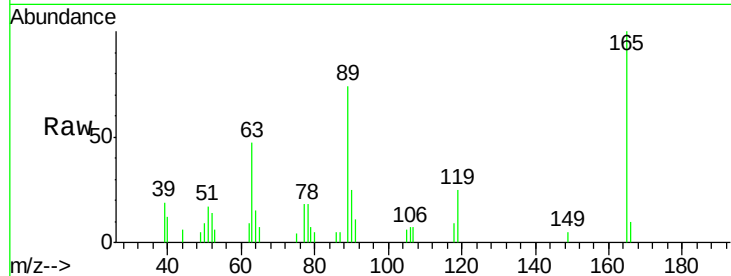
#57  
2,4-Dinitrotoluene  
Concen: 0.896 ng  
RT: 10.19 min Scan# 1377  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 165     | 100   |            |            |
| 63      | 47.2  | 44.8       | 67.2       |
| 89      | 73.9  | 62.2       | 93.4       |
| 182     | 0.0   | 2.1        | 3.1        |

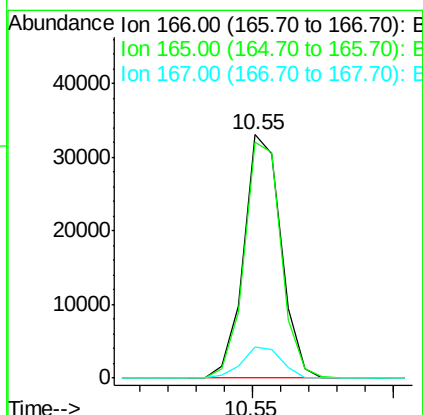
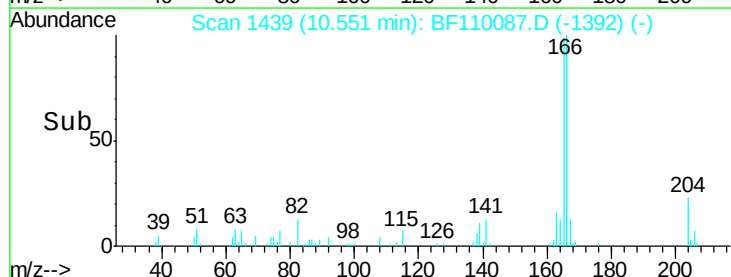
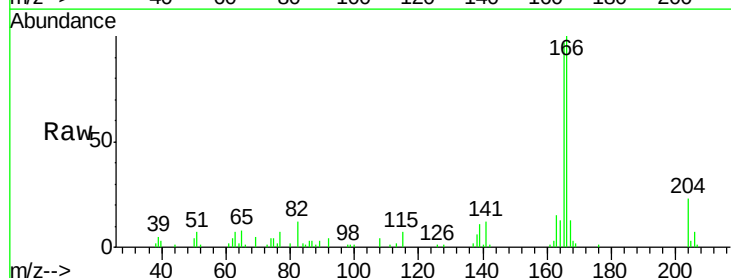
Manual Integrations  
APPROVED

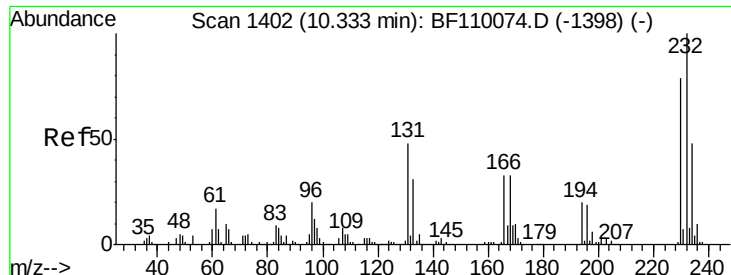
Sohil  
10/24/2018 5:12:01 PM



#58  
Fluorene  
Concen: 1.245 ng  
RT: 10.55 min Scan# 1439  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 166     | 100   |            |            |
| 165     | 96.7  | 78.6       | 117.8      |
| 167     | 12.9  | 10.8       | 16.2       |





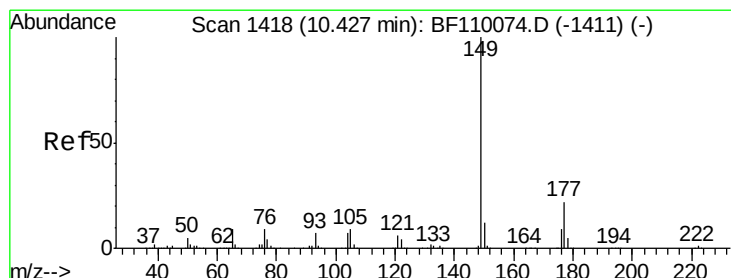
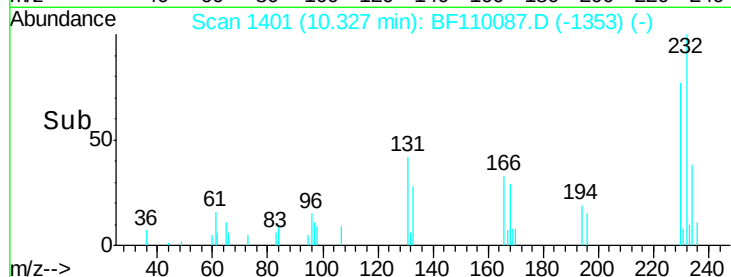
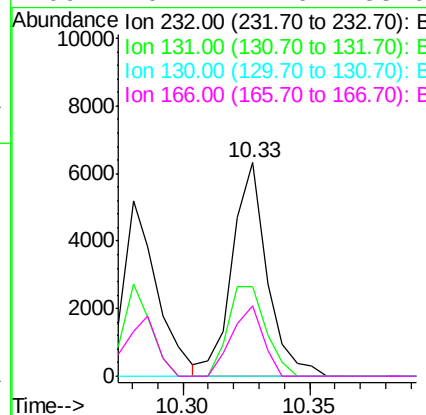
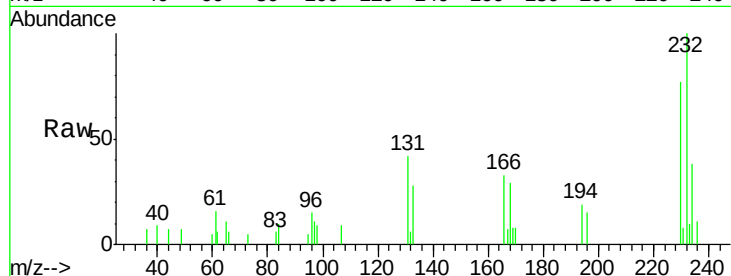
#59  
2,3,4,6-Tetrachlorophenol  
Concen: 0.950 ng  
RT: 10.33 min Scan# 1401  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 46.3  | 37.0  | 55.4  |
| 130     | 0.0   | 1.8   | 2.6   |
| 166     | 29.7  | 22.0  | 33.0  |

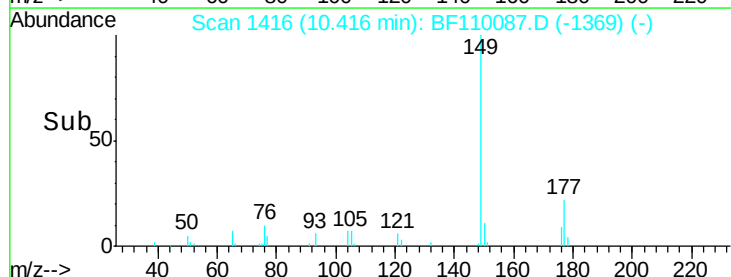
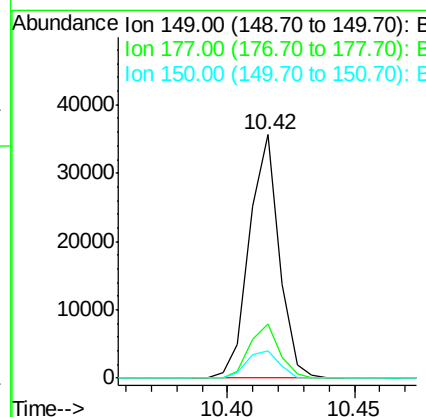
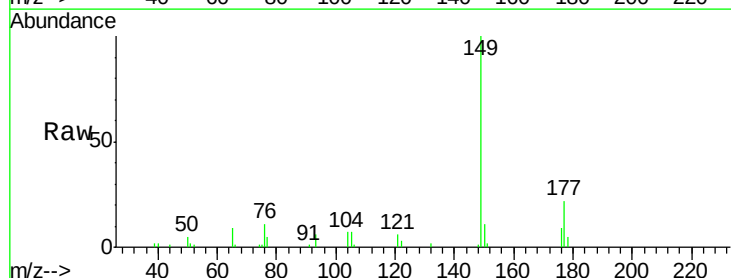
Manual Integrations  
APPROVED

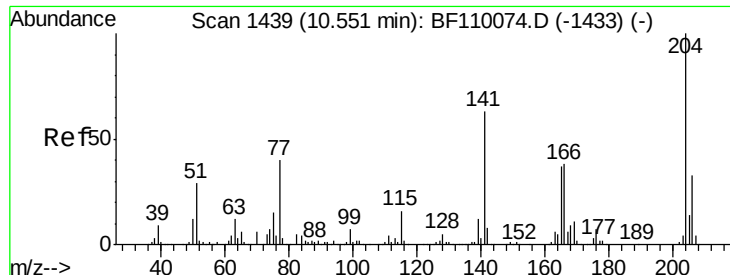
Sohil  
10/24/2018 5:12:01 PM



#60  
Diethylphthalate  
Concen: 1.103 ng  
RT: 10.42 min Scan# 1416  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 22.1  | 17.4  | 26.2  |
| 150     | 11.3  | 9.8   | 14.8  |





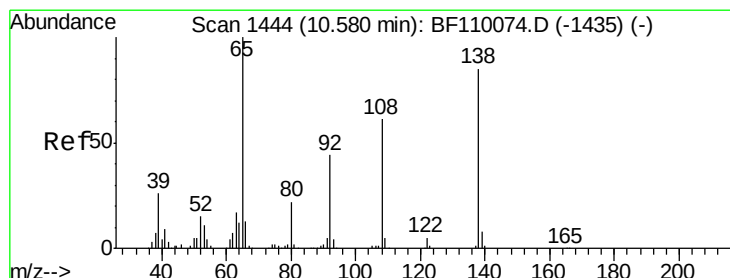
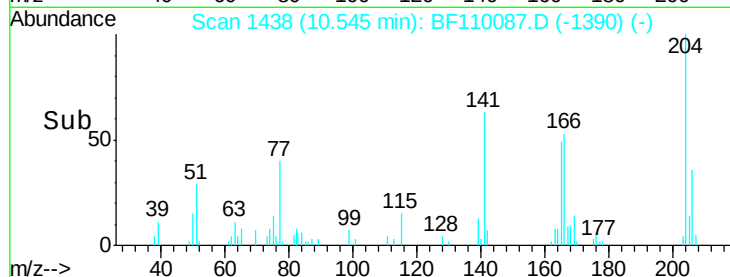
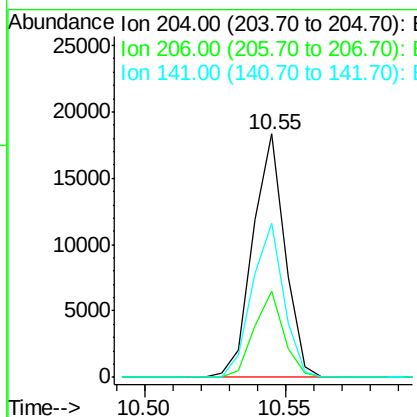
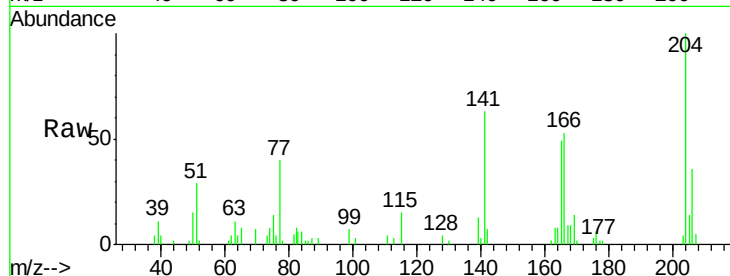
#61  
 4-Chlorophenyl-phenylether  
 Concen: 1.127 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 204   | Resp: | 14446 |
| Ion Ratio | Lower | Upper |       |
| 204       | 100   |       |       |
| 206       | 35.5  | 26.5  | 39.7  |
| 141       | 63.3  | 51.8  | 77.8  |

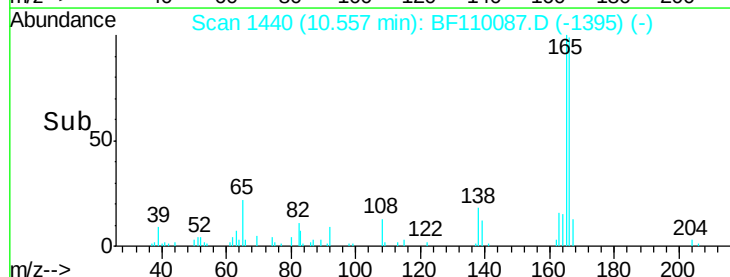
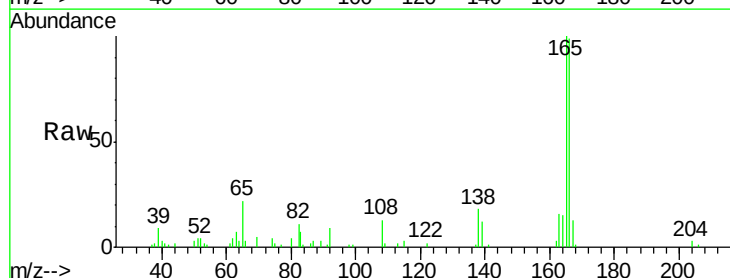
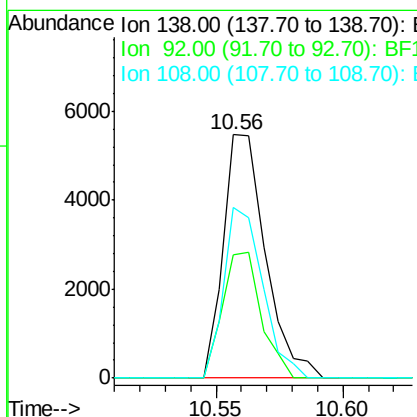
Manual Integrations  
 APPROVED

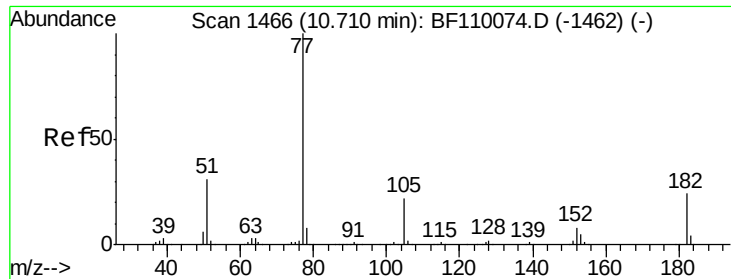
Sohil  
 10/24/2018 5:12:01 PM



#62  
 4-Nitroaniline  
 Concen: 0.917 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. -0.04 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 138   | Resp: | 6346 |
| Ion Ratio | Lower | Upper |      |
| 138       | 100   |       |      |
| 92        | 50.5  | 31.7  | 71.7 |
| 108       | 70.2  | 59.3  | 99.3 |





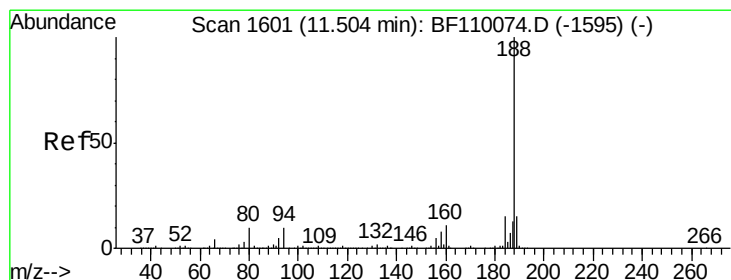
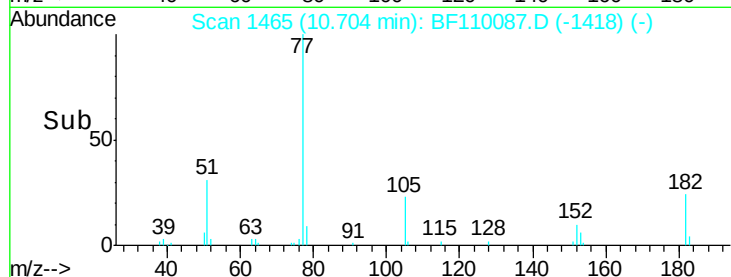
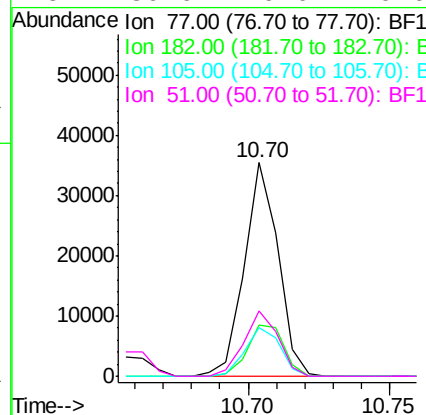
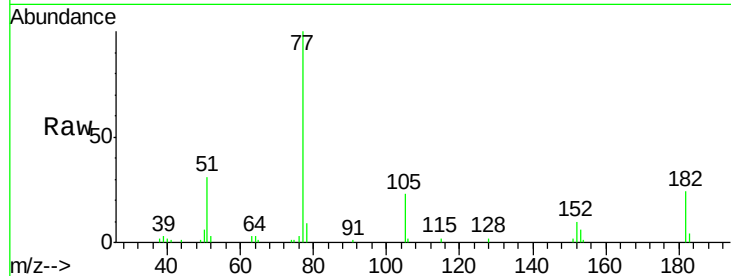
#63  
Azobenzene  
Concen: 1.115 ng  
RT: 10.70 min Scan# 1465  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 24.1  | 4.3   | 44.3  |
| 105     | 22.7  | 1.3   | 41.3  |
| 51      | 30.6  | 9.0   | 49.0  |

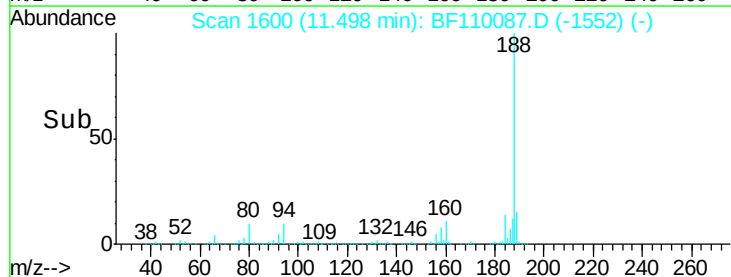
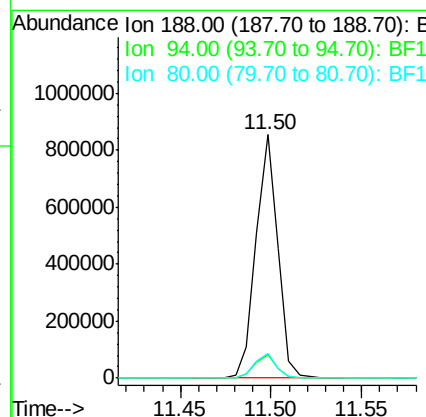
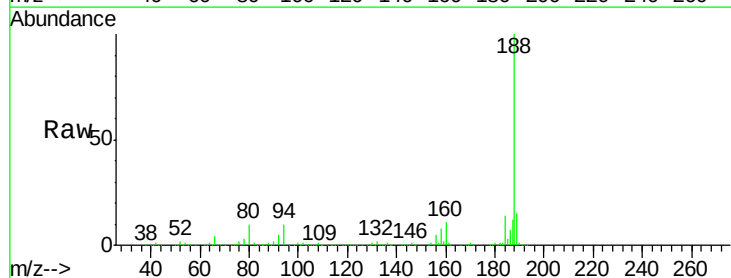
Manual Integrations  
APPROVED

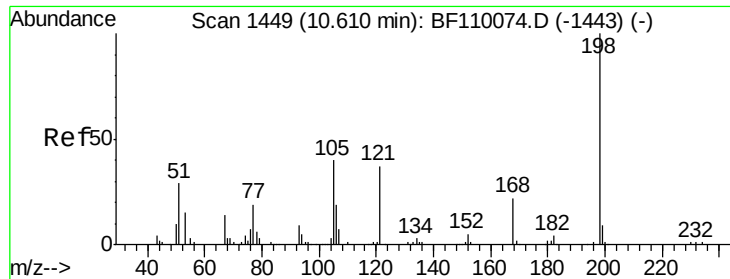
Sohil  
10/24/2018 5:12:01 PM



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1600  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.8   | 7.2   | 10.8  |
| 80      | 10.3  | 7.9   | 11.9  |





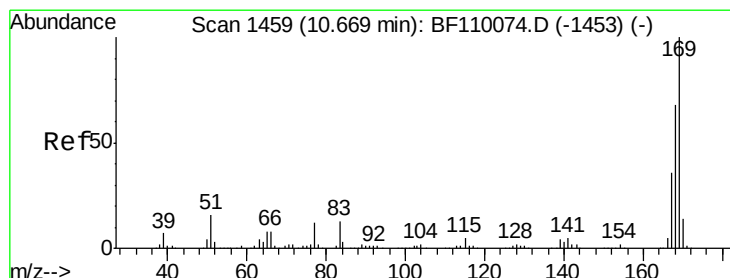
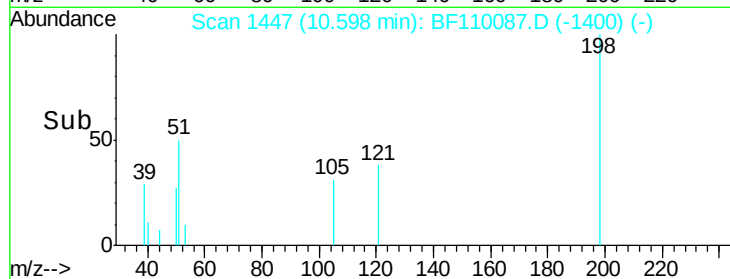
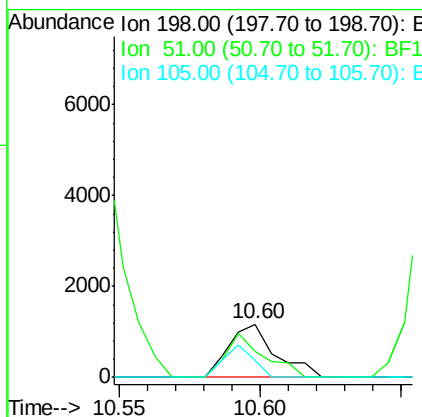
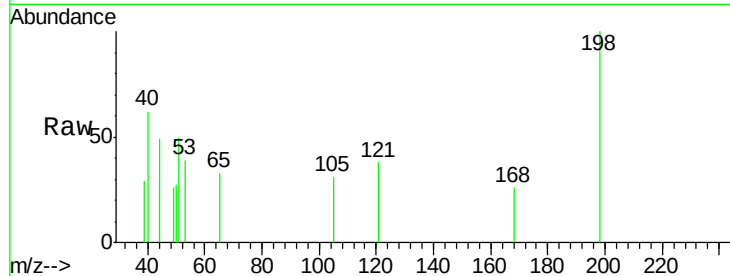
#65  
4,6-Dinitro-2-methylphenol  
Concen: 0.409 ng  
RT: 10.60 min Scan# 1447  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 198     | 100   | 1336 |       |       |
| 51      | 49.7  | 22.8 | 62.8  |       |
| 105     | 31.3  | 23.6 | 63.6  |       |

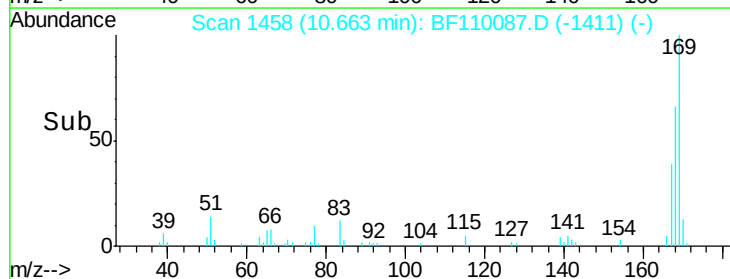
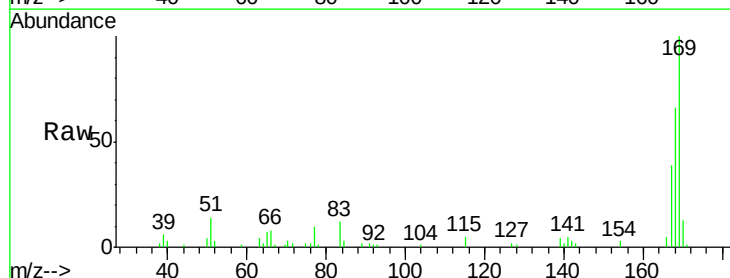
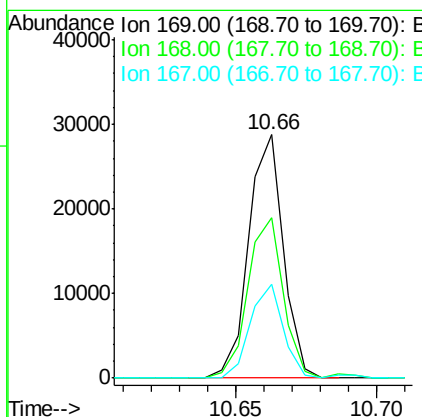
Manual Integrations  
APPROVED

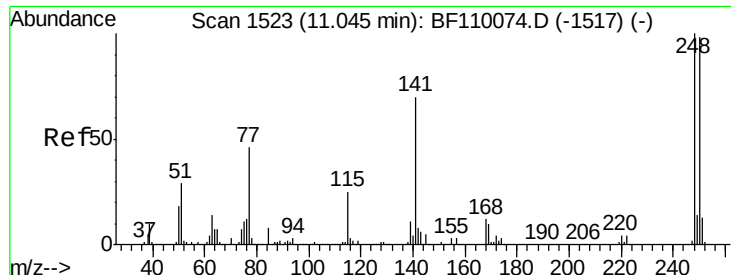
Sohil  
10/24/2018 5:12:01 PM



#66  
n-Nitrosodiphenylamine  
Concen: 1.045 ng  
RT: 10.66 min Scan# 1458  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 169     | 100   | 24486 |       |       |
| 168     | 65.9  | 51.2  | 76.8  |       |
| 167     | 38.8  | 27.8  | 41.6  |       |





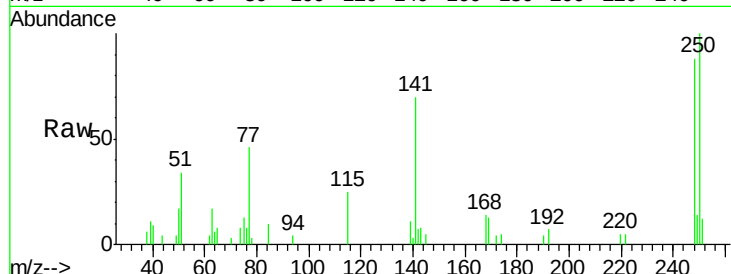
#67  
 4-Bromophenyl-phenylether  
 Concen: 0.979 ng  
 RT: 11.04 min Scan# 1522  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

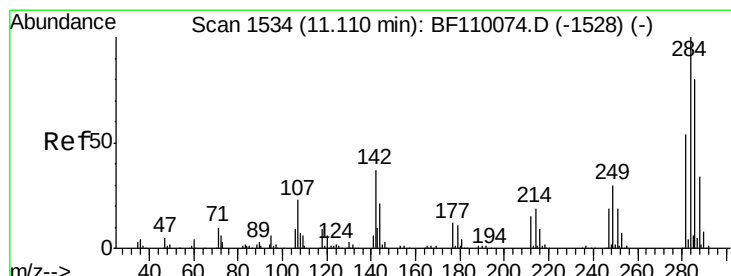
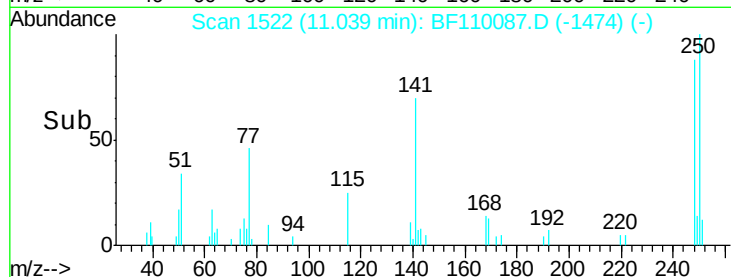
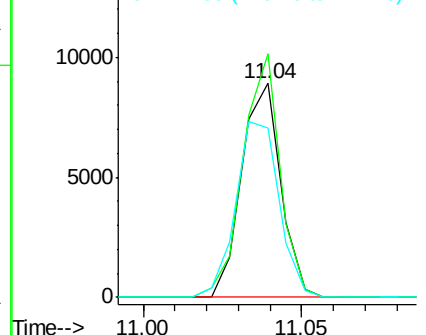
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 113.7 | 79.4  | 119.2 |
| 141     | 79.0  | 55.9  | 83.9  |

Manual Integrations  
 APPROVED

Sohil  
 10/24/2018 5:12:01 PM



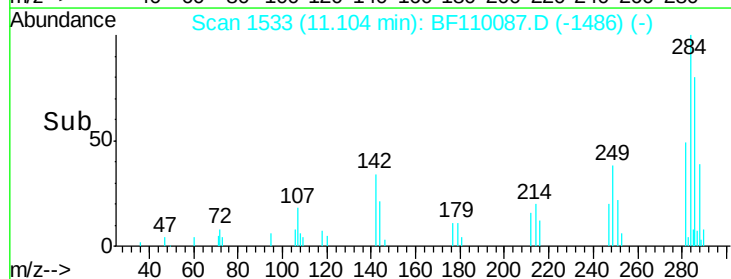
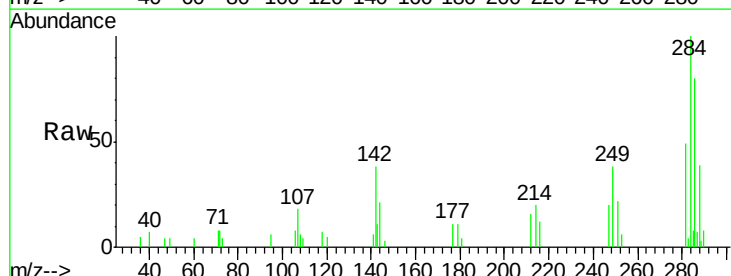
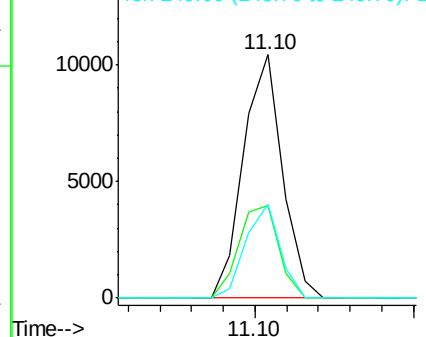
Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

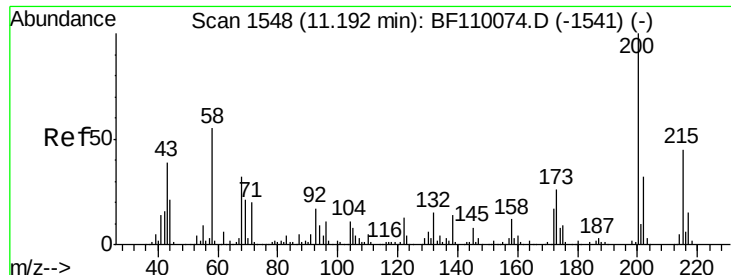


#68  
 Hexachlorobenzene  
 Concen: 1.079 ng  
 RT: 11.10 min Scan# 1533  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 38.2  | 23.9  | 35.9# |
| 249     | 38.5  | 24.2  | 36.2# |

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





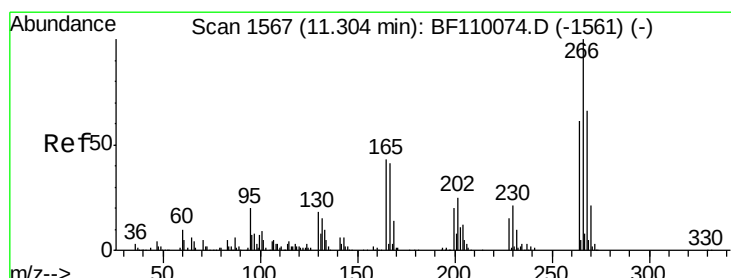
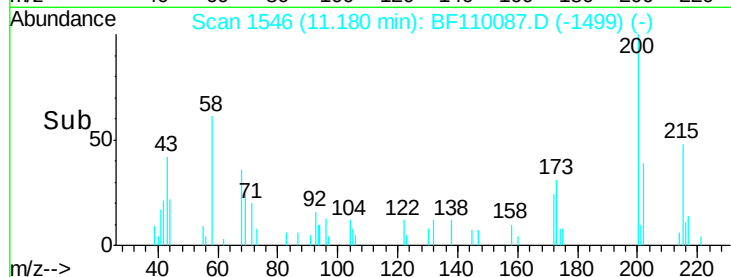
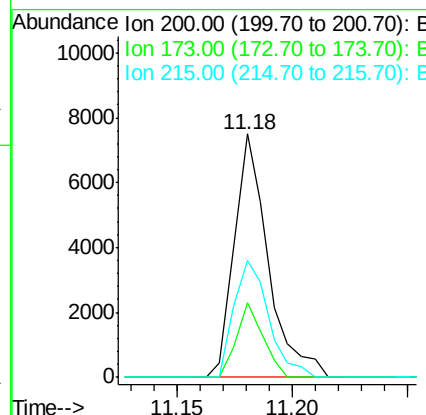
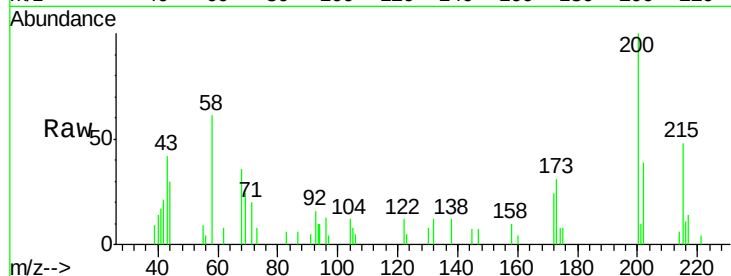
#69  
Atrazine  
Concen: 1.033 ng  
RT: 11.18 min Scan# 1546  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 30.9  | 6.6   | 46.6  |
| 215     | 48.2  | 26.3  | 66.3  |

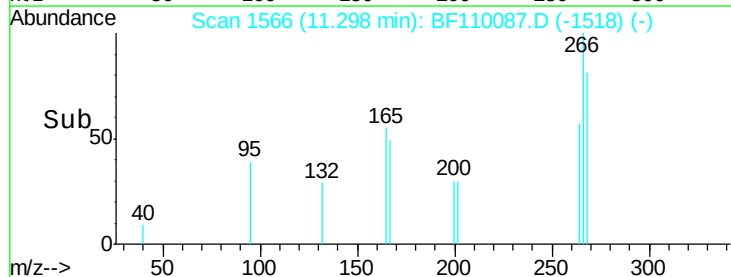
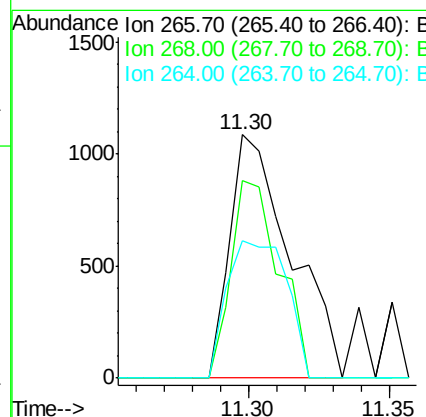
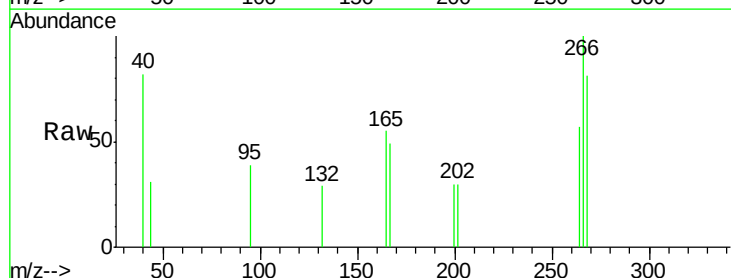
Manual Integrations  
APPROVED

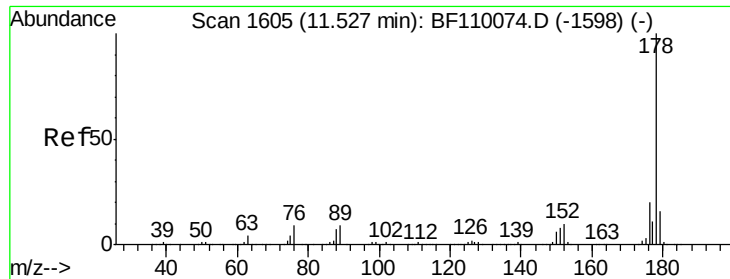
Sohil  
10/24/2018 5:12:01 PM



#70  
Pentachlorophenol  
Concen: 0.338 ng  
RT: 11.30 min Scan# 1566  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 81.1  | 50.6  | 75.8# |
| 264     | 56.6  | 50.6  | 75.8  |





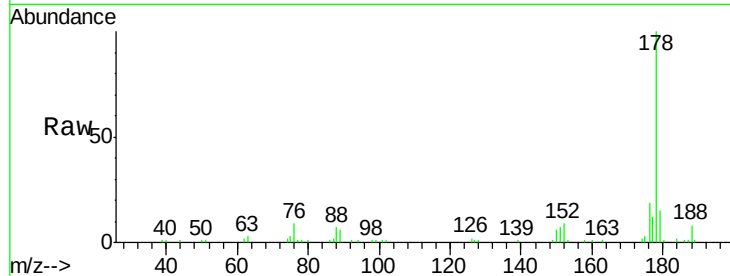
#71  
 Phenanthrene  
 Concen: 1.234 ng  
 RT: 11.52 min Scan# 1604  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

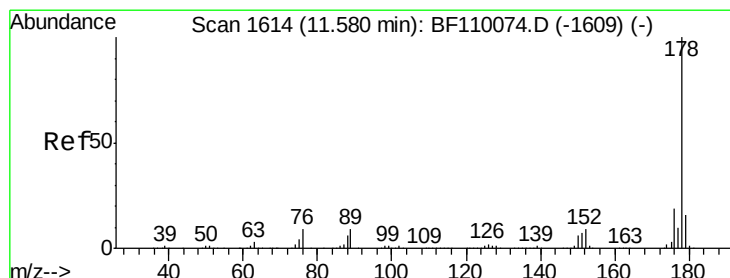
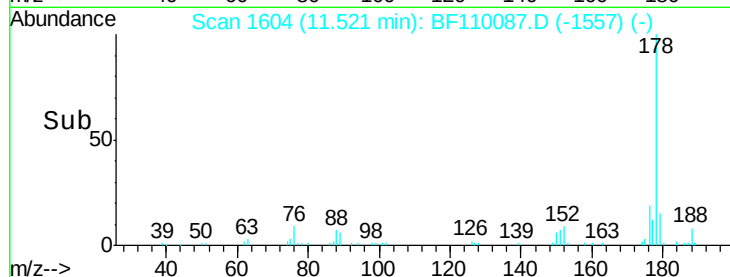
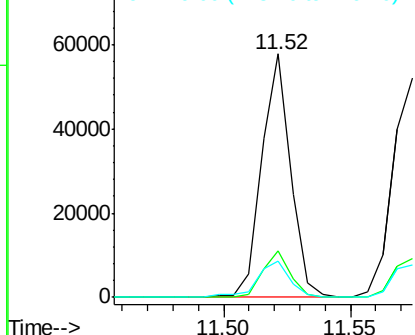
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.3  | 15.5  | 23.3  |
| 179     | 14.8  | 12.5  | 18.7  |

Manual Integrations  
 APPROVED

Sohil  
 10/24/2018 5:12:01 PM



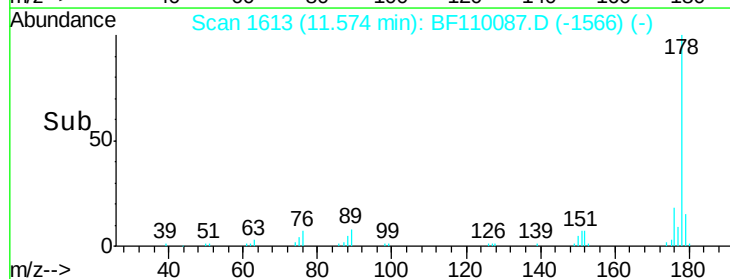
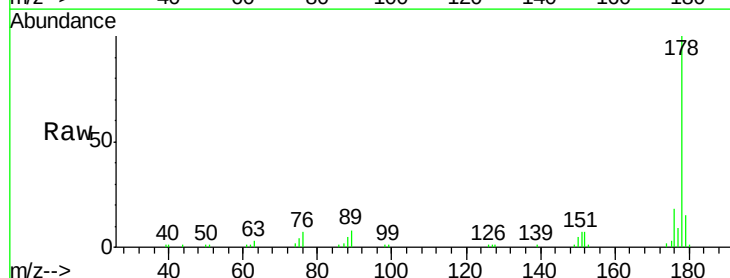
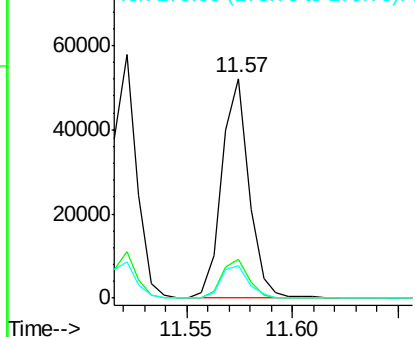
Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E



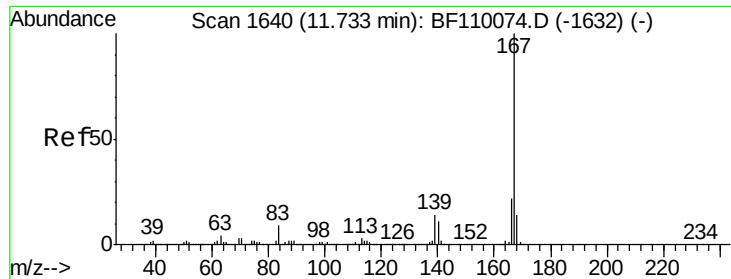
#72  
 Anthracene  
 Concen: 1.243 ng  
 RT: 11.57 min Scan# 1613  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.6  | 15.4  | 23.2  |
| 179     | 14.8  | 12.6  | 18.8  |

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







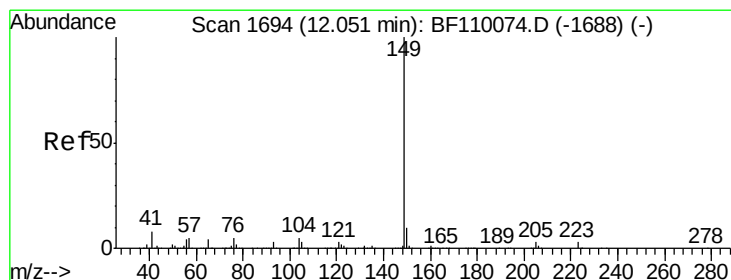
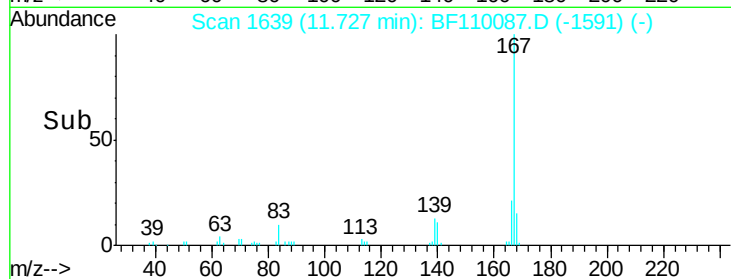
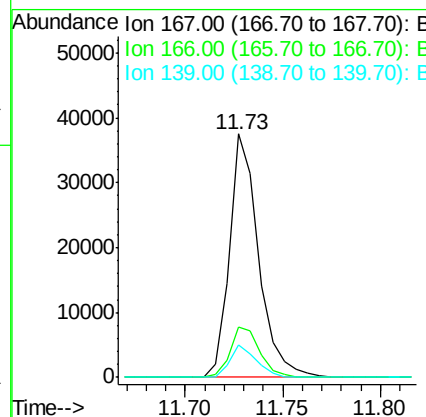
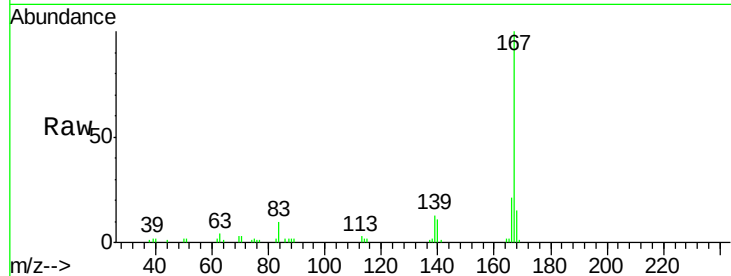
#73  
 Carbazole  
 Concen: 1.055 ng  
 RT: 11.73 min Scan# 1639  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 20.8  | 17.4  | 26.0  |
| 139     | 13.1  | 10.9  | 16.3  |

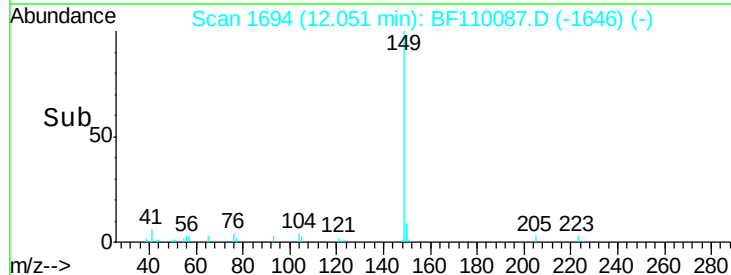
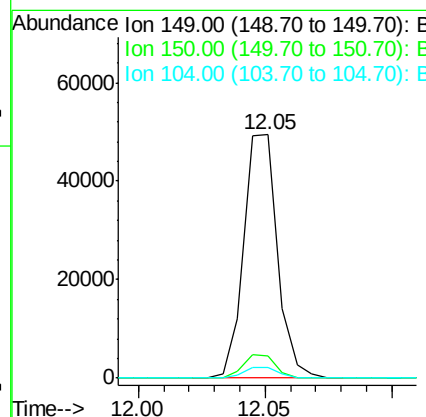
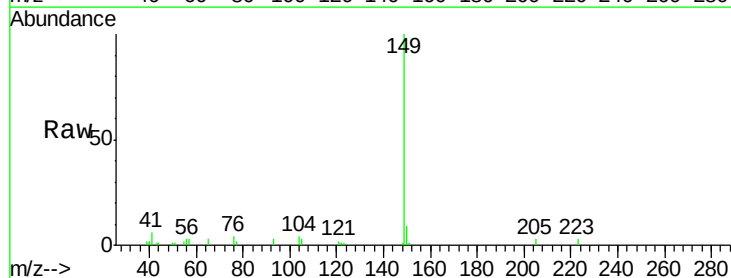
Manual Integrations  
 APPROVED

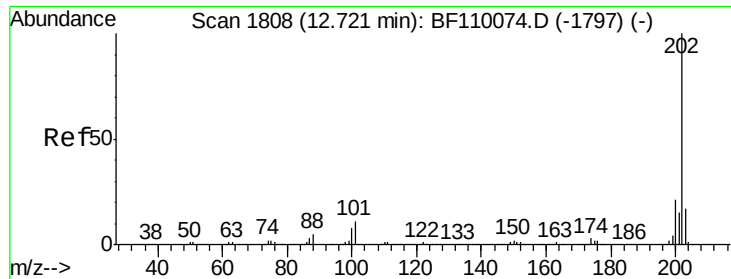
Sohil  
 10/24/2018 5:12:01 PM



#74  
 Di-n-butylphthalate  
 Concen: 1.103 ng  
 RT: 12.05 min Scan# 1694  
 Delta R.T. -0.02 min  
 Lab File: BF110087.D  
 Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.3   | 7.7   | 11.5  |
| 104     | 4.4   | 4.2   | 6.4   |





#75

Fluoranthene

Concen: 1.209 ng

RT: 12.72 min Scan# 1807

Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

Instrument :

BNA\_F

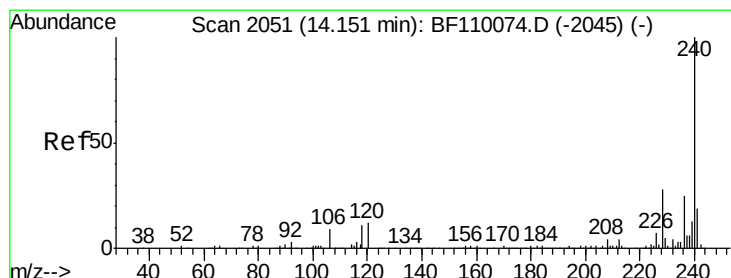
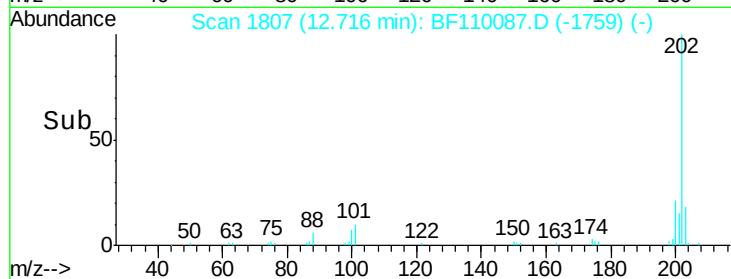
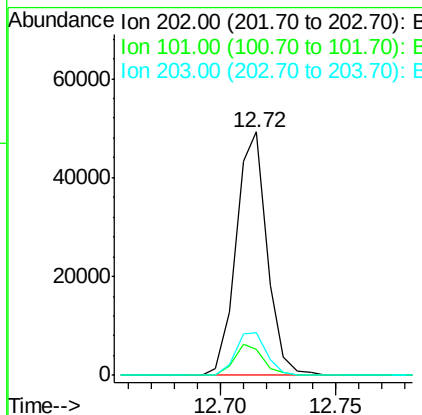
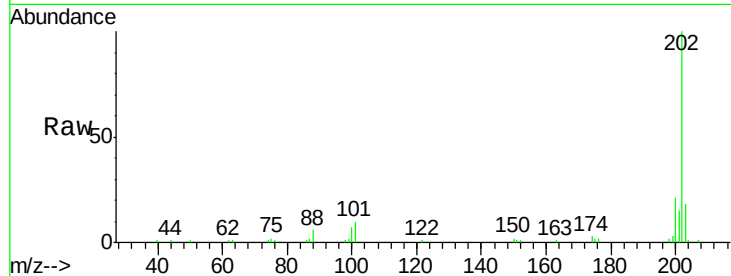
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Tgt | Ion   | 202   | Resp: | 45874 |
| Ion | Ratio | Lower | Upper |       |
| 202 | 100   |       |       |       |
| 101 | 10.5  | 0.0   | 31.4  |       |
| 203 | 17.5  | 0.0   | 37.7  |       |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



#76

Chrysene-d12

Concen: 20.000 ng

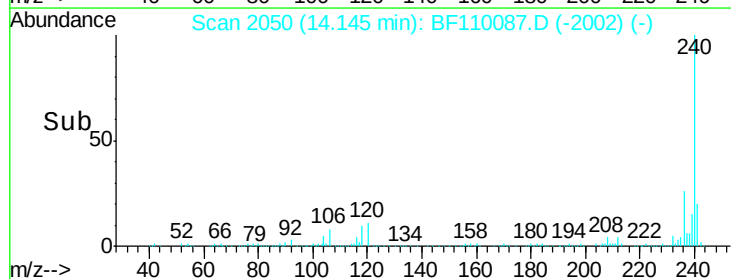
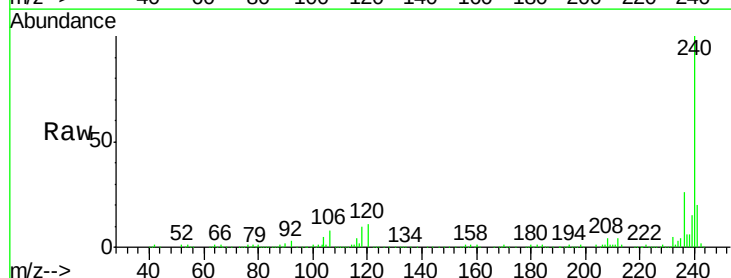
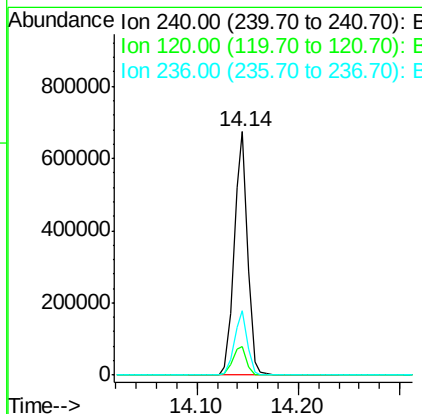
RT: 14.14 min Scan# 2050

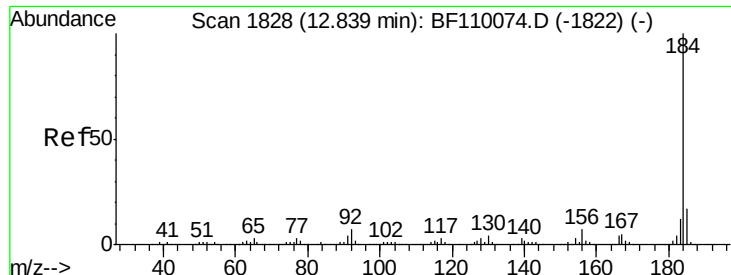
Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 240   | Resp: | 612481 |
| Ion | Ratio | Lower | Upper |        |
| 240 | 100   |       |       |        |
| 120 | 11.5  | 8.3   | 12.5  |        |
| 236 | 26.3  | 21.2  | 31.8  |        |





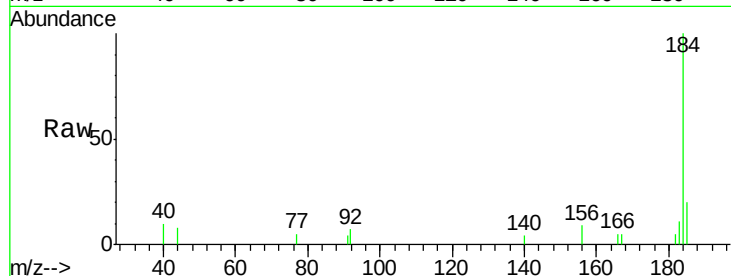
#77  
Benzidine  
Concen: 0.281 ng  
RT: 12.83 min Scan# 1827  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

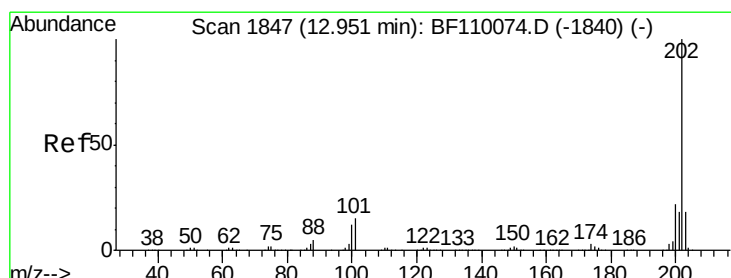
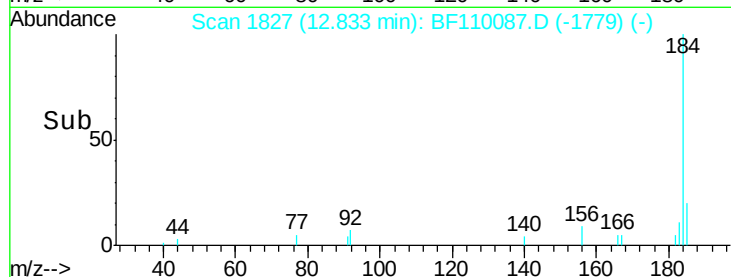
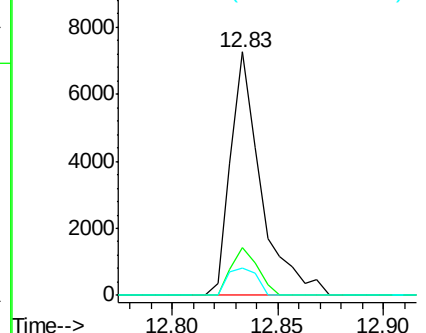
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 184     | 100   | 7255 |       |       |
| 185     | 19.7  |      | 13.4  | 20.2  |
| 183     | 11.0  |      | 9.4   | 14.2  |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



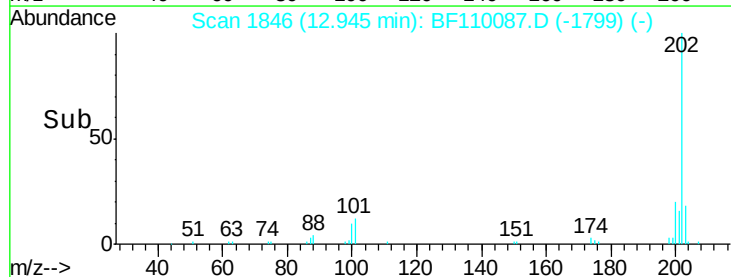
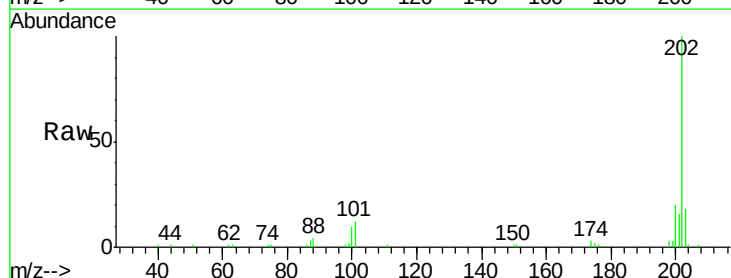
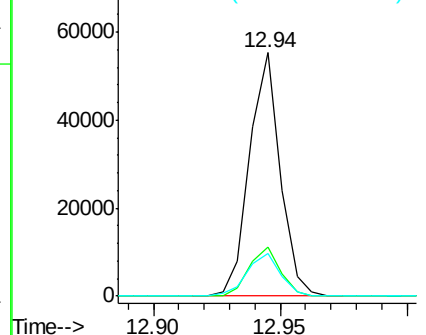
Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E

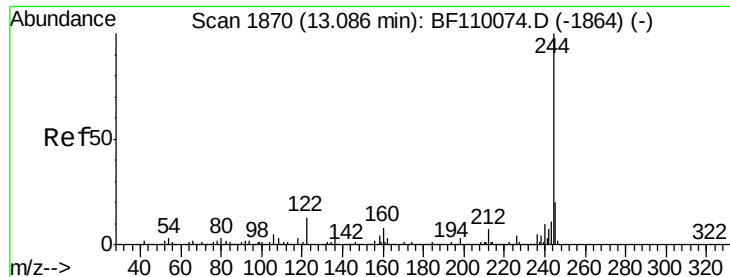


#78  
Pyrene  
Concen: 1.061 ng  
RT: 12.94 min Scan# 1846  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 46584 |       |       |
| 200     | 20.1  |       | 17.8  | 26.6  |
| 203     | 17.6  |       | 14.2  | 21.4  |

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: 67.900 ng

RT: 13.09 min Scan# 1870

Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

Instrument :

BNA\_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:244 Resp: 1999683

Ion Ratio Lower Upper

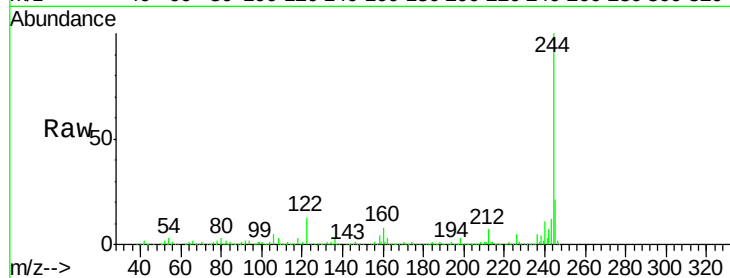
244 100

212 7.4 5.8 8.8

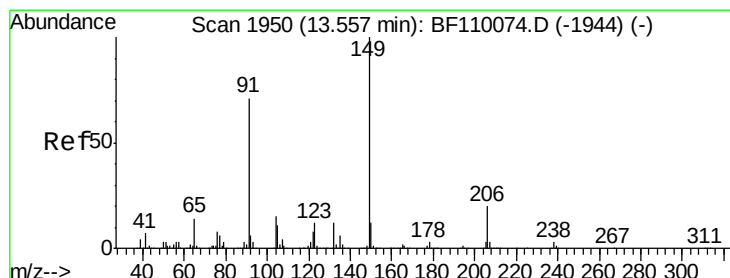
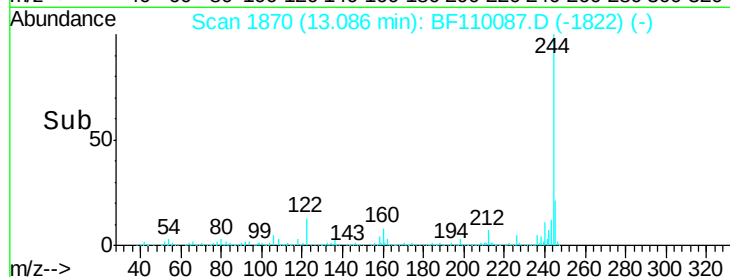
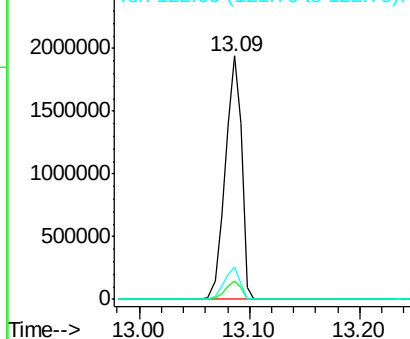
122 13.4 8.7 13.1#

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



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: 0.848 ng

RT: 13.55 min Scan# 1949

Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

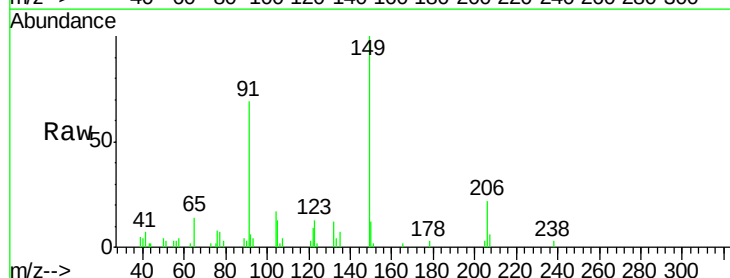
Tgt Ion:149 Resp: 16161

Ion Ratio Lower Upper

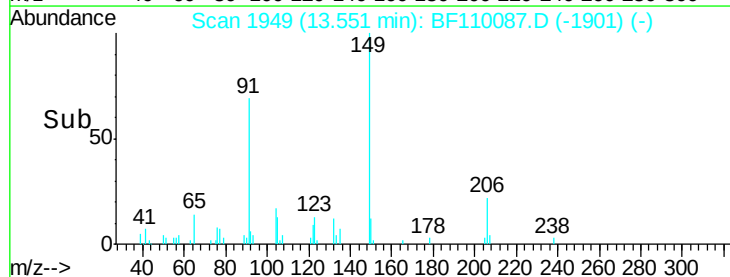
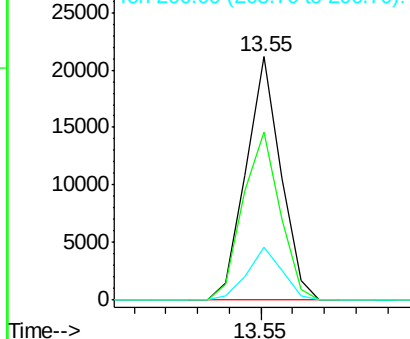
149 100

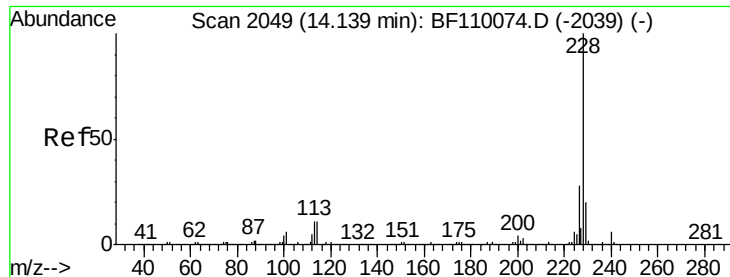
91 68.9 57.2 85.8

206 21.6 15.7 23.5



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 91.00 (90.70 to 91.70): BF1  
Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 1.169 ng

RT: 14.13 min Scan# 2048

Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

Instrument :

BNA\_F

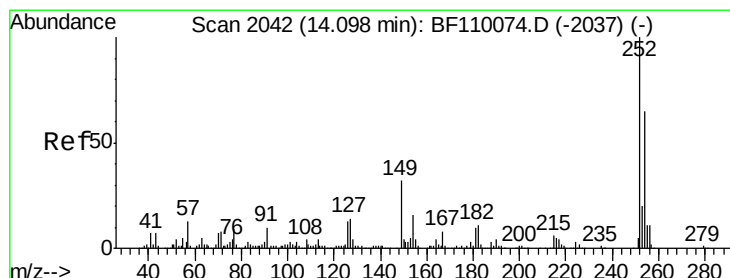
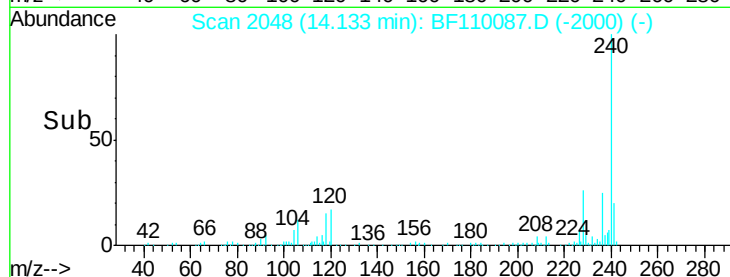
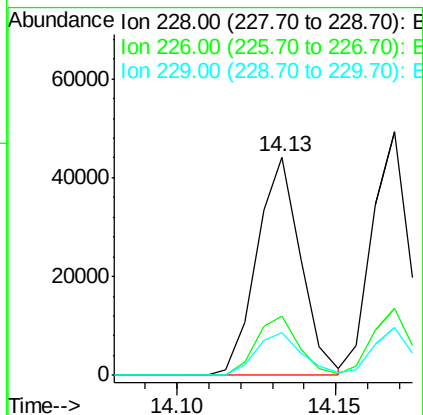
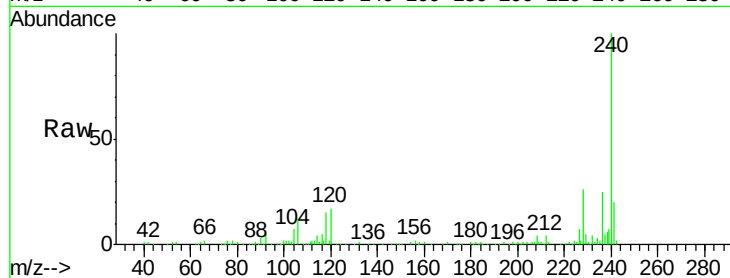
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 42452 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 26.9  | 22.1  | 33.1  |
| 229       | 19.8  | 15.6  | 23.4  |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



#82

3,3'-Dichlorobenzidine

Concen: 0.727 ng

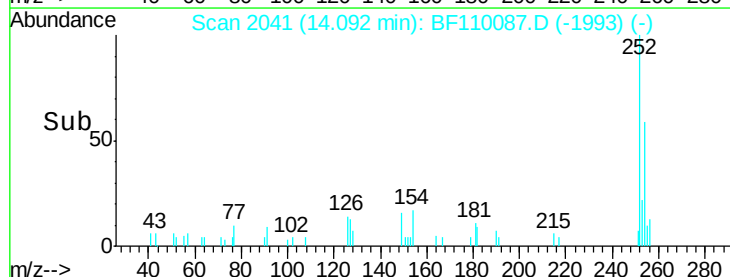
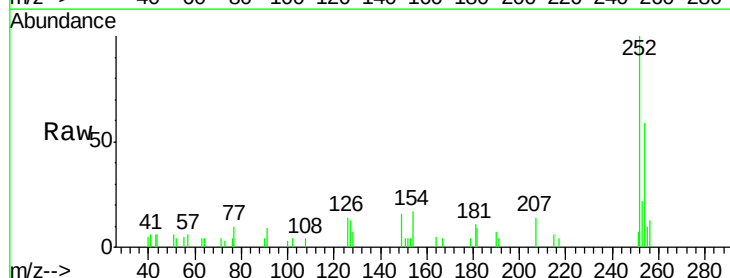
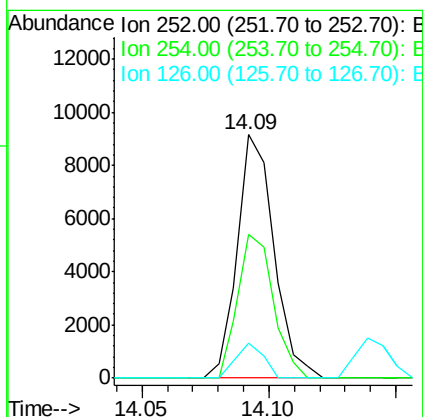
RT: 14.09 min Scan# 2041

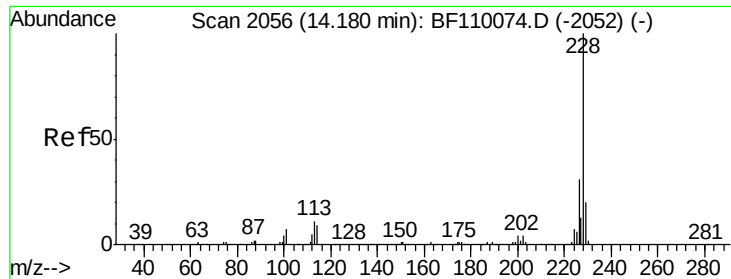
Delta R.T. -0.02 min

Lab File: BF110087.D

Acq: 23 Oct 2018 19:42

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 9199 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 254       | 59.3  | 51.3  | 76.9 |
| 126       | 14.2  | 9.4   | 14.2 |





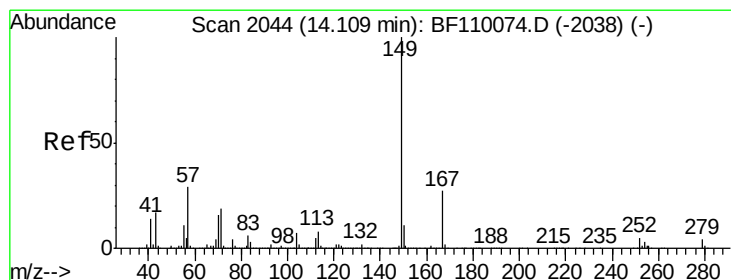
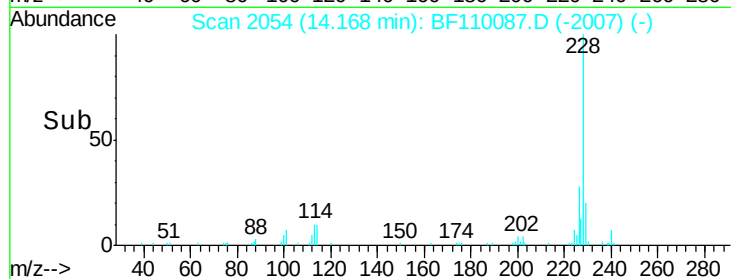
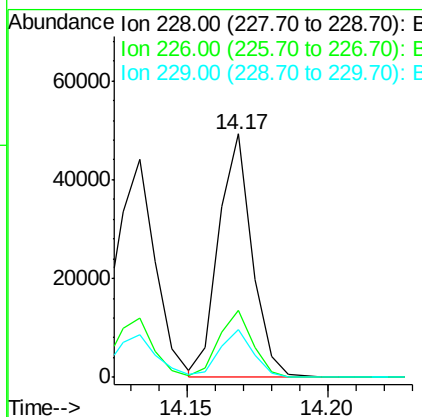
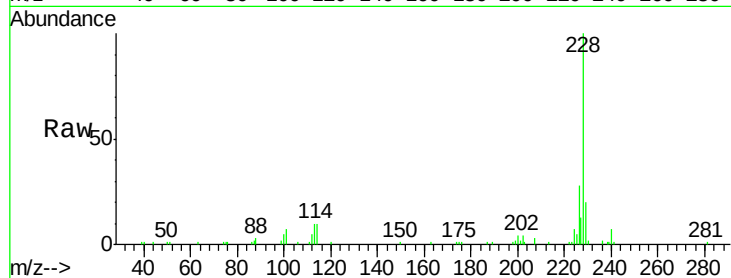
#83  
Chrysene  
Concen: 1.175 ng  
RT: 14.17 min Scan# 2054  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.5  | 24.7  | 37.1  |
| 229     | 19.6  | 15.9  | 23.9  |

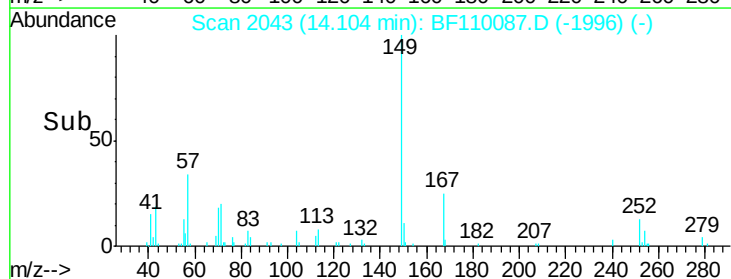
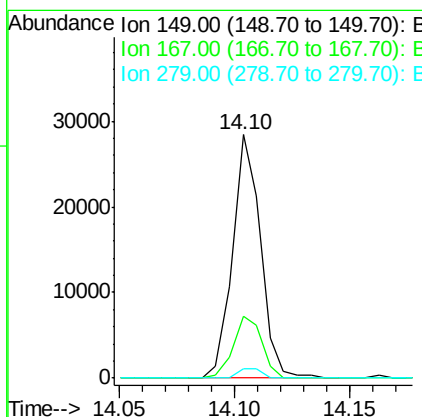
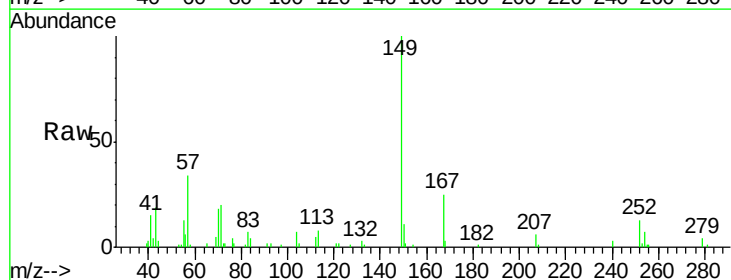
Manual Integrations  
APPROVED

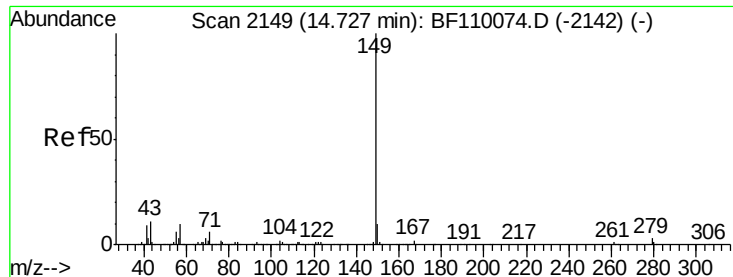
Sohil  
10/24/2018 5:12:01 PM



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 0.932 ng  
RT: 14.10 min Scan# 2043  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 25.2  | 19.8  | 29.8  |
| 279     | 4.0   | 2.7   | 4.1   |





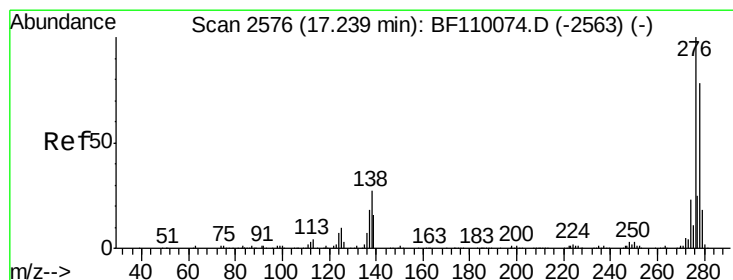
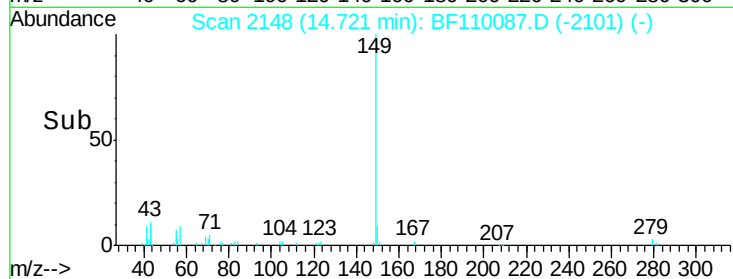
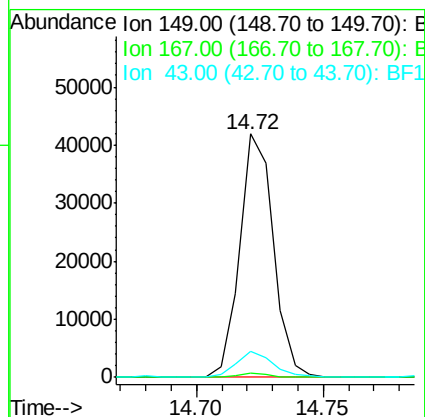
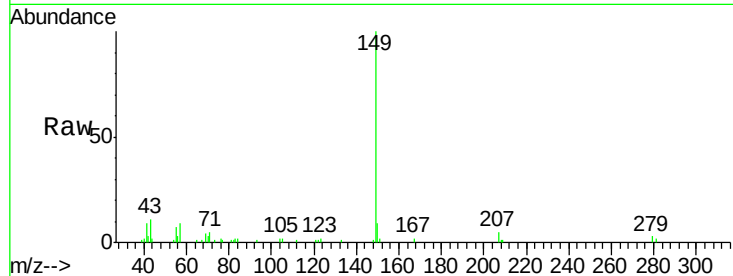
#85  
Di-n-octyl phthalate  
Concen: 0.962 ng  
RT: 14.72 min Scan# 2148  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 149     | 100   |            |            |
| 167     | 1.6   | 1.1        | 1.7        |
| 43      | 11.8  | 7.8        | 11.8#      |

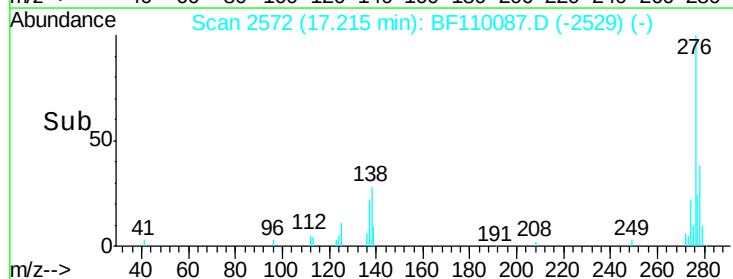
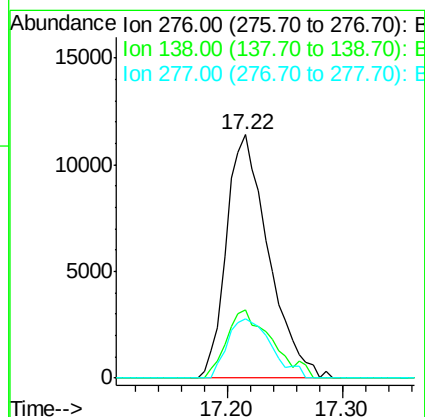
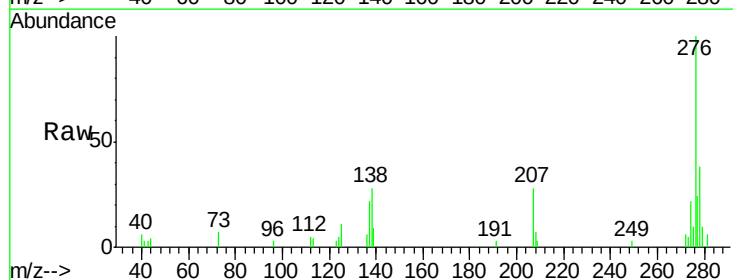
Manual Integrations  
APPROVED

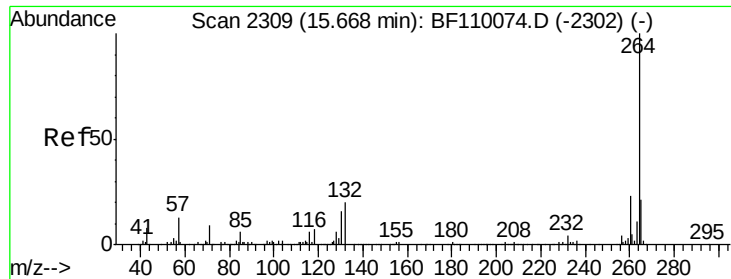
Sohil  
10/24/2018 5:12:01 PM



#86  
Indeno(1,2,3-cd)pyrene  
Concen: 1.007 ng  
RT: 17.22 min Scan# 2572  
Delta R.T. -0.05 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 30.2  | 18.5       | 27.7#      |
| 277     | 25.3  | 20.0       | 30.0       |





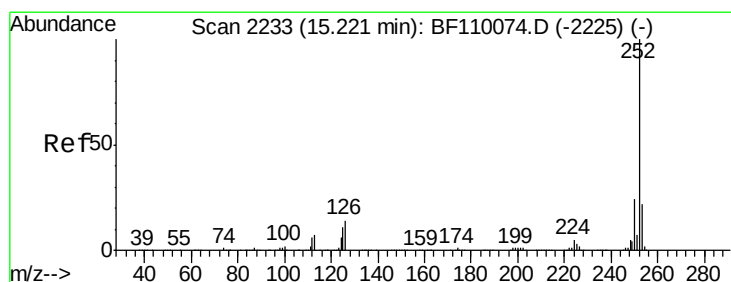
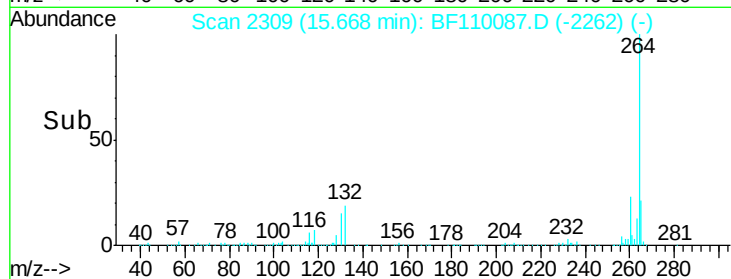
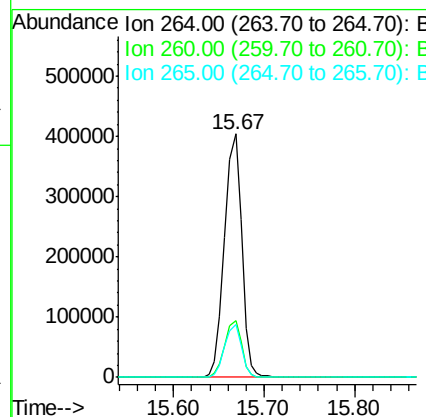
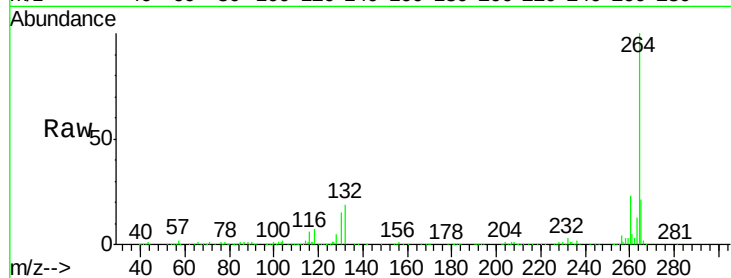
#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.67 min Scan# 2309  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 18.7  | 28.1  |
| 265     | 21.5  | 16.7  | 25.1  |

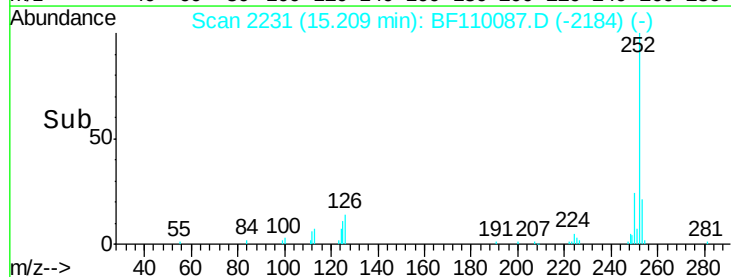
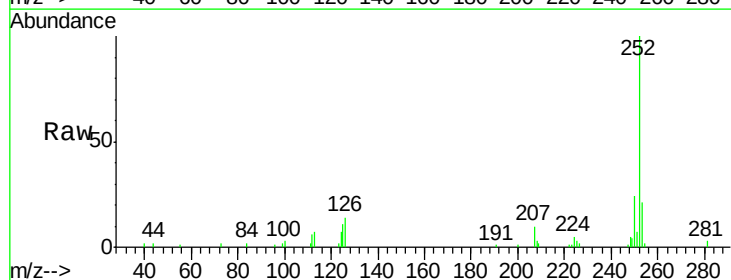
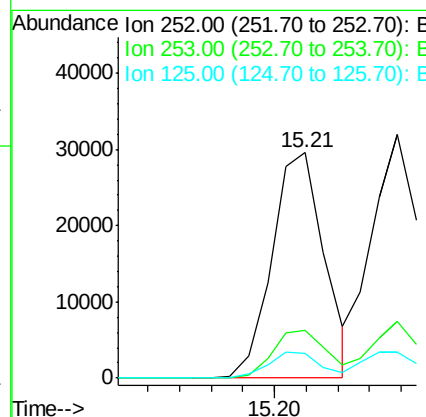
Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM

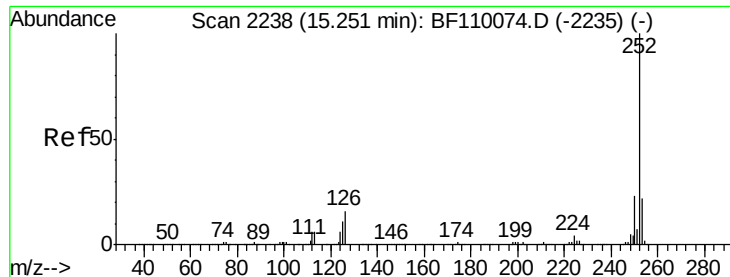


#88  
Benzo(b)fluoranthene  
Concen: 1.103 ng  
RT: 15.21 min Scan# 2231  
Delta R.T. -0.02 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.0  | 17.2  | 25.8  |
| 125     | 11.2  | 8.2   | 12.4  |







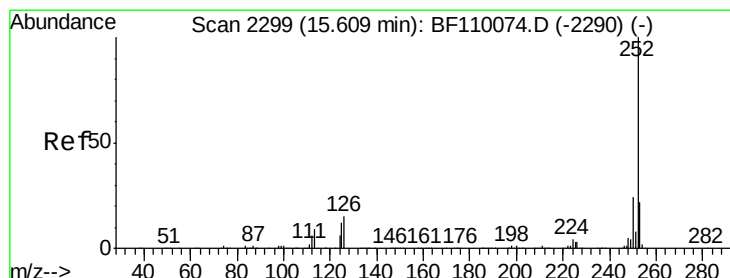
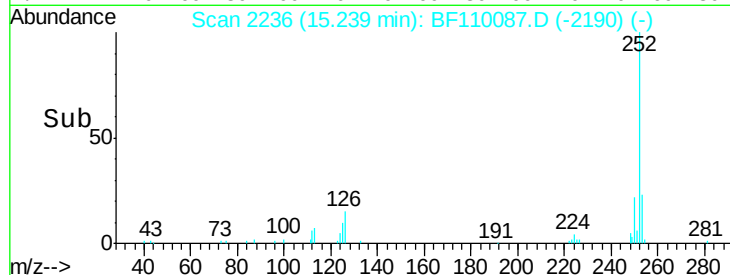
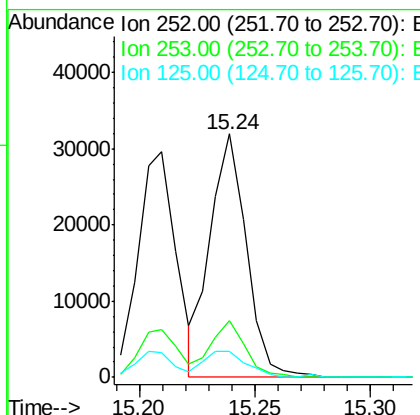
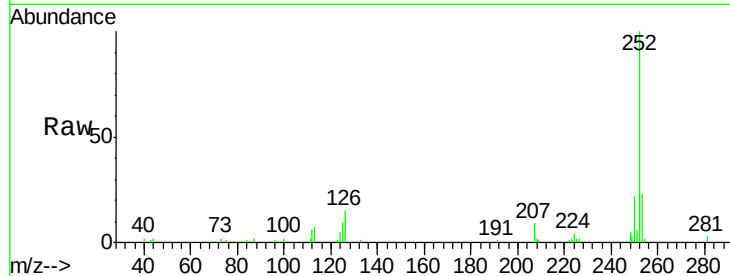
#89  
Benzo(k)fluoranthene  
Concen: 1.151 ng  
RT: 15.24 min Scan# 2236  
Delta R.T. -0.03 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.2  | 25.8  |
| 125     | 10.5  | 7.4   | 11.0  |

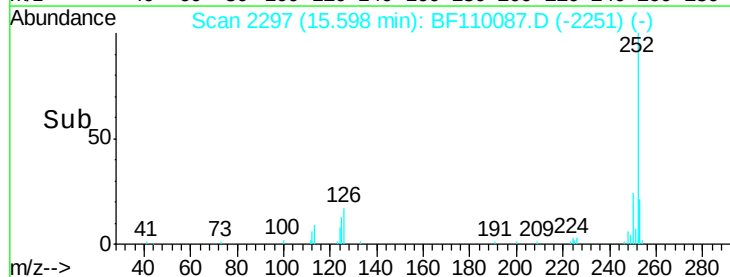
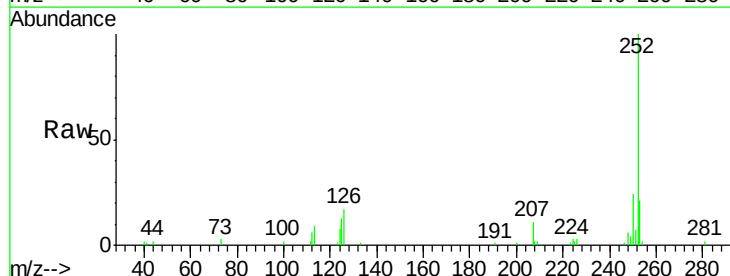
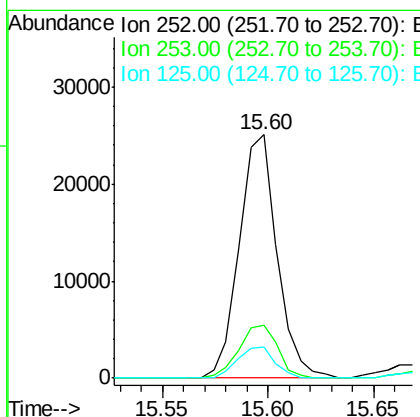
Manual Integrations  
APPROVED

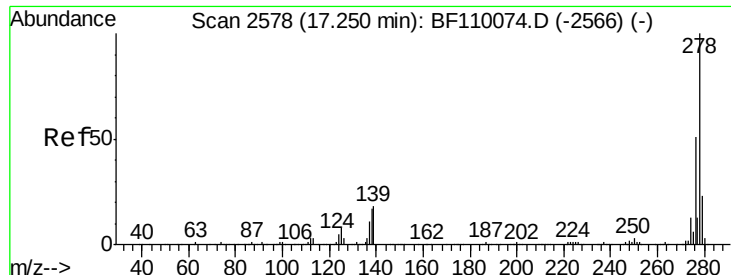
Sohil  
10/24/2018 5:12:01 PM



#90  
Benzo(a)pyrene  
Concen: 1.098 ng  
RT: 15.60 min Scan# 2297  
Delta R.T. -0.03 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 18.2  | 27.4  |
| 125     | 13.0  | 9.0   | 13.6  |





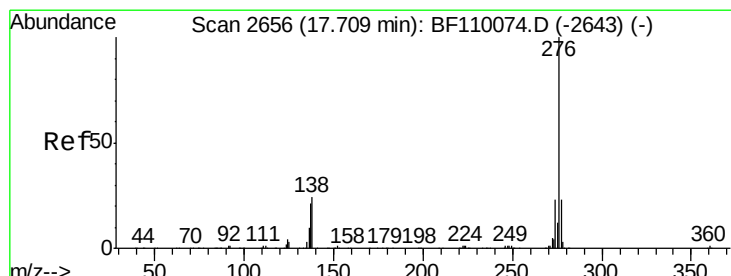
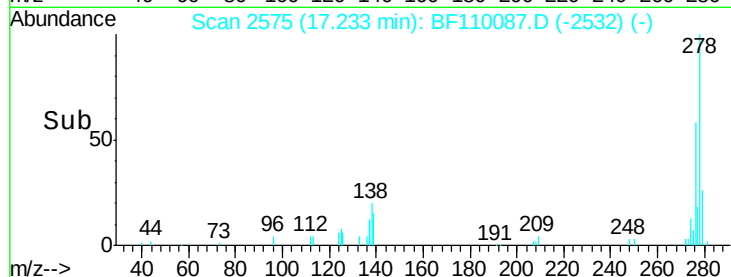
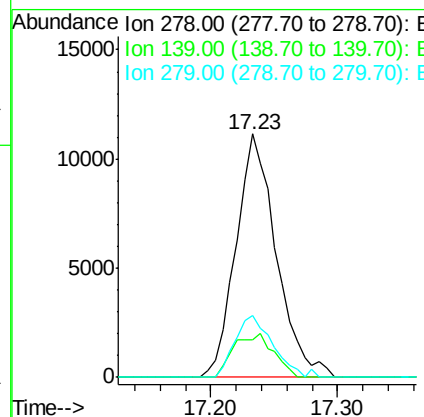
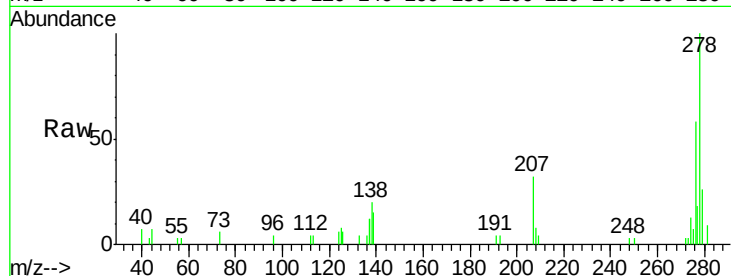
#91  
Dibenzo(a,h)anthracene  
Concen: 1.003 ng  
RT: 17.23 min Scan# 2575  
Delta R.T. -0.05 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

Instrument :  
BNA\_F  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 15.4  | 12.7  | 19.1  |
| 279     | 25.5  | 19.0  | 28.4  |

Manual Integrations  
APPROVED

Sohil  
10/24/2018 5:12:01 PM



#92  
Benzo(g,h,i)perylene  
Concen: 1.000 ng  
RT: 17.69 min Scan# 2652  
Delta R.T. -0.05 min  
Lab File: BF110087.D  
Acq: 23 Oct 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.9  | 18.8  | 28.2  |
| 138     | 18.3  | 16.0  | 24.0  |

