

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN102418\  
 Data File : BN003281.D  
 Acq On : 24 Oct 2018 20:52  
 Operator : MJ/SJ  
 Sample : J5164-03  
 Misc : MDL 2PPM  
 ALS Vial : 17 Sample Multiplier: 1

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

Manual Integrations  
 APPROVED

Sohil  
 10/25/2018 3:20:17 PM

Quant Time: Oct 25 06:52:32 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-BN102418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 24 14:21:25 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.60  | 152  | 95788    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.37 | 136  | 445215   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.24 | 164  | 287203   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.00 | 188  | 672374   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.21 | 240  | 771260   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 23.41 | 264  | 806051   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.23  | 112 | 767369  | 139.53 | ng | 0.00 |
| 7) Phenol-d6             | 6.80  | 99  | 1068723 | 136.66 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 8.76  | 82  | 635291  | 81.83  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.75 | 330 | 536930  | 138.84 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 12.85 | 172 | 1709565 | 80.74  | ng | 0.00 |
| 79) Terphenyl-d14        | 19.64 | 244 | 2766268 | 76.70  | ng | 0.00 |

## Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.22  | 88  | 5322   | 2.038 | ng | 99     |
| 3) Pyridine                    | 3.64  | 79  | 7242   | 1.214 | ng | # 86   |
| 4) n-Nitrosodimethylamine      | 3.50  | 42  | 119    | 0.054 | ng | # 1    |
| 6) Aniline                     | 6.95  | 93  | 15363  | 1.573 | ng | 97     |
| 8) 2-Chlorophenol              | 7.18  | 128 | 13401  | 1.978 | ng | 84     |
| 9) Benzaldehyde                | 6.79  | 77  | 10204  | 2.247 | ng | 84     |
| 10) Phenol                     | 6.82  | 94  | 16947  | 2.054 | ng | # 54   |
| 11) bis(2-Chloroethyl)ether    | 7.05  | 93  | 13348  | 1.980 | ng | 98     |
| 12) 1,3-Dichlorobenzene        | 7.49  | 146 | 14781  | 1.963 | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 7.64  | 146 | 14821  | 1.911 | ng | 91     |
| 14) 1,2-Dichlorobenzene        | 7.95  | 146 | 15968  | 2.122 | ng | 99     |
| 15) Benzyl Alcohol             | 7.88  | 79  | 4341   | 0.770 | ng | 93     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.14  | 45  | 19572  | 1.980 | ng | 97     |
| 17) 2-Methylphenol             | 8.08  | 107 | 11004  | 1.951 | ng | 94     |
| 18) Hexachloroethane           | 8.66  | 117 | 5119   | 1.884 | ng | 93     |
| 19) n-Nitroso-di-n-propylamine | 8.40  | 70  | 9951   | 1.765 | ng | 90     |
| 20) 3+4-Methylphenols          | 8.43  | 107 | 14264m | 1.780 | ng |        |
| 22) Acetophenone               | 8.43  | 105 | 20533  | 1.903 | ng | # 97   |
| 24) Nitrobenzene               | 8.80  | 77  | 17957  | 2.267 | ng | 93     |
| 25) Isophorone                 | 9.32  | 82  | 28456  | 2.090 | ng | 96     |
| 26) 2-Nitrophenol              | 9.53  | 139 | 5170   | 1.240 | ng | # 91   |
| 27) 2,4-Dimethylphenol         | 9.63  | 122 | 10416  | 1.777 | ng | 93     |
| 28) bis(2-Chloroethoxy)methane | 9.83  | 93  | 18414  | 2.007 | ng | # 88   |
| 29) 2,4-Dichlorophenol         | 10.13 | 162 | 11647  | 1.741 | ng | 91     |
| 30) 1,2,4-Trichlorobenzene     | 10.25 | 180 | 14661  | 1.928 | ng | 95     |
| 31) Naphthalene                | 10.42 | 128 | 47194  | 2.169 | ng | 98     |
| 32) Benzoic acid               | 9.82  | 122 | 1024   | 5.189 | ng | # 55   |
| 33) 4-Chloroaniline            | 10.60 | 127 | 13351  | 1.389 | ng | 96     |
| 34) Hexachlorobutadiene        | 10.70 | 225 | 8674   | 1.911 | ng | 95     |
| 35) Caprolactam                | 11.35 | 113 | 2798   | 1.068 | ng | 92     |
| 36) 4-Chloro-3-methylphenol    | 11.74 | 107 | 13005  | 1.743 | ng | 87     |
| 37) 2-Methylnaphthalene        | 12.05 | 142 | 34762  | 2.236 | ng | 97     |
| 38) 1-Methylnaphthalene        | 12.27 | 142 | 34056  | 2.243 | ng | 97     |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.43 | 216 | 16901  | 1.779 | ng | 99     |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN102418\  
 Data File : BN003281.D  
 Acq On : 24 Oct 2018 20:52  
 Operator : MJ/SJ  
 Sample : J5164-03  
 Misc : MDL 2PPM  
 ALS Vial : 17 Sample Multiplier: 1

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

Manual Integrations  
 APPROVED

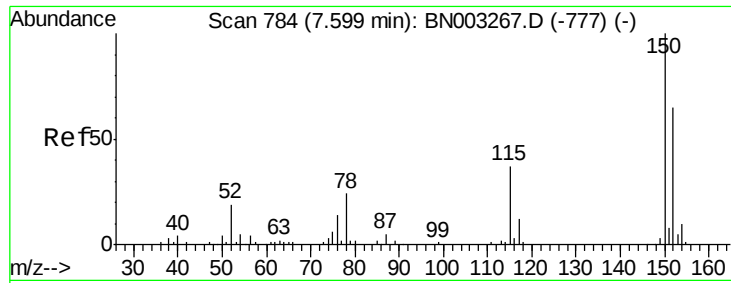
Sohil  
 10/25/2018 3:20:17 PM

Quant Time: Oct 25 06:52:32 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-BN102418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 24 14:21:25 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.39 | 237  | 817      | 9.105  | ng    | 92       |
| 43) 2,4,6-Trichlorophenol      | 12.71 | 196  | 9392     | 1.565  | ng    | 91       |
| 44) 2,4,5-Trichlorophenol      | 12.82 | 196  | 10705    | 1.710  | ng    | 96       |
| 46) 1,1'-Biphenyl              | 13.08 | 154  | 47628    | 1.889  | ng    | 97       |
| 47) 2-Chloronaphthalene        | 13.12 | 162  | 34354    | 1.848  | ng    | 97       |
| 48) 2-Nitroaniline             | 13.38 | 65   | 8110     | 1.484  | ng    | 89       |
| 49) Acenaphthylene             | 13.97 | 152  | 58308    | 2.049  | ng    | 98       |
| 50) Dimethylphthalate          | 13.72 | 163  | 47047    | 2.026  | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 13.85 | 165  | 9101     | 1.727  | ng #  | 90       |
| 52) Acenaphthene               | 14.31 | 154  | 35470    | 2.057  | ng    | 97       |
| 53) 3-Nitroaniline             | 14.22 | 138  | 6141     | 1.090  | ng #  | 90       |
| 55) Dibenzofuran               | 14.66 | 168  | 56265    | 2.006  | ng    | 99       |
| 56) 4-Nitrophenol              | 14.66 | 139  | 22978    | 10.694 | ng #  | 18       |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 10802    | 1.512  | ng #  | 81       |
| 58) Fluorene                   | 15.30 | 166  | 45993    | 2.125  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 14.91 | 232  | 9453     | 1.719  | ng #  | 96       |
| 60) Diethylphthalate           | 15.07 | 149  | 44883    | 1.905  | ng    | 98       |
| 61) 4-Chlorophenyl-phenylether | 15.30 | 204  | 23111    | 1.922  | ng    | 96       |
| 62) 4-Nitroaniline             | 15.40 | 138  | 5233     | 0.951  | ng    | 96       |
| 63) Azobenzene                 | 15.59 | 77   | 42810    | 1.966  | ng    | 98       |
| 65) 4,6-Dinitro-2-methylphenol | 15.47 | 198  | 3447     | 0.735  | ng    | 90       |
| 66) n-Nitrosodiphenylamine     | 15.52 | 169  | 39888    | 1.895  | ng    | 97       |
| 67) 4-Bromophenyl-phenylether  | 16.19 | 248  | 14870    | 1.964  | ng    | 98       |
| 68) Hexachlorobenzene          | 16.32 | 284  | 16795    | 1.947  | ng    | 96       |
| 69) Atrazine                   | 16.48 | 200  | 13576    | 1.820  | ng    | 95       |
| 70) Pentachlorophenol          | 16.71 | 266  | 2291     | 7.015  | ng #  | 78       |
| 71) Phenanthrene               | 17.05 | 178  | 75923    | 2.148  | ng    | 98       |
| 72) Anthracene                 | 17.15 | 178  | 74458    | 2.111  | ng    | 98       |
| 73) Carbazole                  | 17.44 | 167  | 66533    | 1.821  | ng    | 99       |
| 74) Di-n-butylphthalate        | 17.97 | 149  | 74723    | 1.754  | ng    | 97       |
| 75) Fluoranthene               | 19.08 | 202  | 88875    | 2.134  | ng    | 99       |
| 77) Benzidine                  | 19.30 | 184  | 13998    | 0.620  | ng #  | 94       |
| 78) Pyrene                     | 19.45 | 202  | 91157    | 2.011  | ng    | 97       |
| 80) Butylbenzylphthalate       | 20.34 | 149  | 35441    | 1.684  | ng    | 97       |
| 81) Benzo(a)anthracene         | 21.19 | 228  | 95005    | 2.115  | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine     | 21.15 | 252  | 26545    | 1.428  | ng    | 94       |
| 83) Chrysene                   | 21.25 | 228  | 92425    | 2.141  | ng    | 97       |
| 84) Bis(2-ethylhexyl)phthalate | 21.12 | 149  | 54758    | 1.754  | ng    | 97       |
| 85) Di-n-octyl phthalate       | 21.99 | 149  | 98109    | 1.832  | ng    | 99       |
| 86) Indeno(1,2,3-cd)pyrene     | 25.64 | 276  | 101759   | 2.056  | ng    | 99       |
| 88) Benzo(b)fluoranthene       | 22.76 | 252  | 96570    | 2.176  | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 22.81 | 252  | 93399    | 2.146  | ng    | 99       |
| 90) Benzo(a)pyrene             | 23.32 | 252  | 91139    | 2.155  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 25.64 | 278  | 87740    | 2.096  | ng    | 97       |
| 92) Benzo(g,h,i)perylene       | 26.32 | 276  | 84329    | 2.098  | ng    | 98       |

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





#1

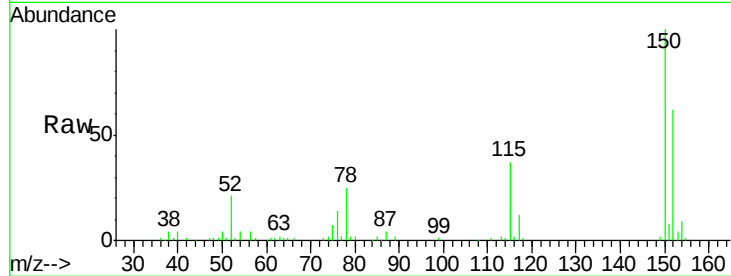
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.60 min Scan# 784  
Delta R.T. 0.00 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

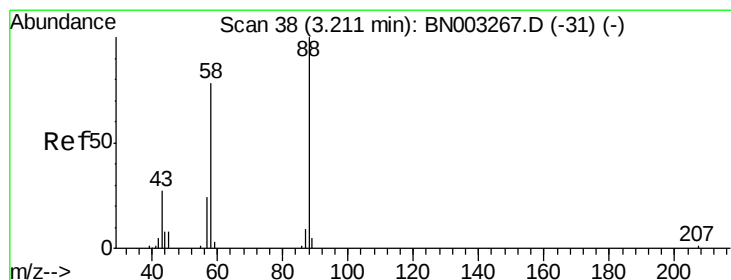
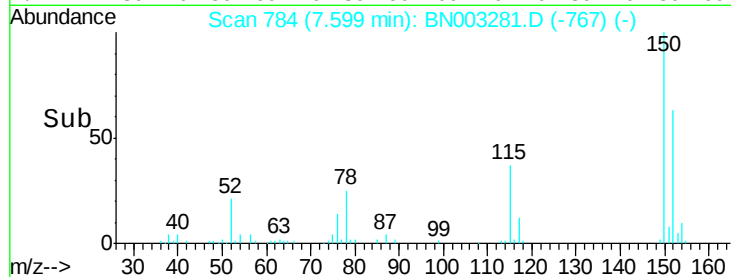
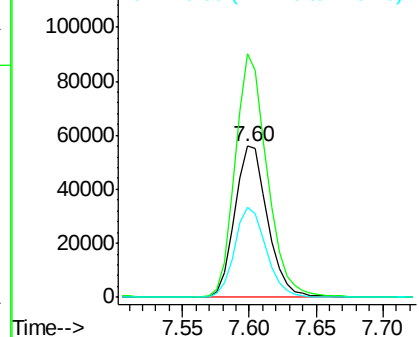
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.8 | 123.8 | 185.8 |
| 115     | 59.6  | 45.9  | 68.9  |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM



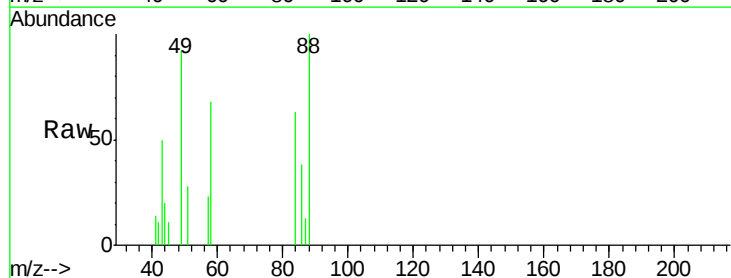
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



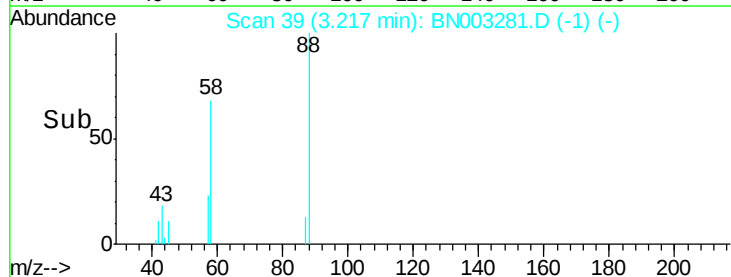
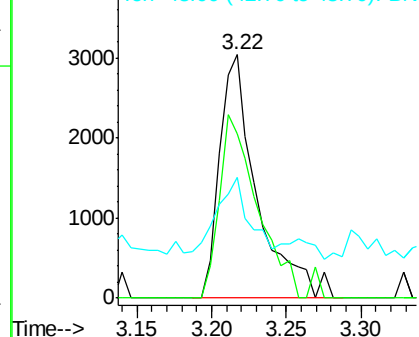
#2

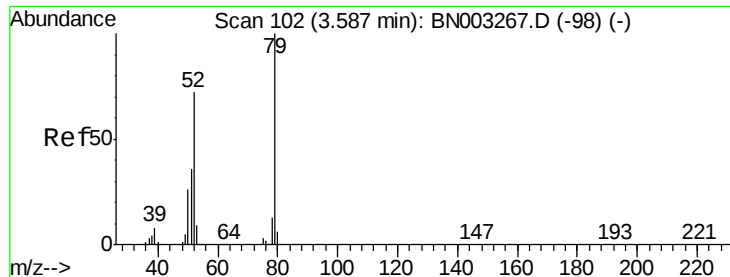
1,4-Dioxane  
Concen: 2.038 ng  
RT: 3.22 min Scan# 39  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 76.3  | 61.1  | 91.7  |
| 43      | 26.6  | 22.2  | 33.4  |



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





#3

Pyridine

Concen: 1.214 ng

RT: 3.64 min Scan# 111

Delta R.T. 0.05 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

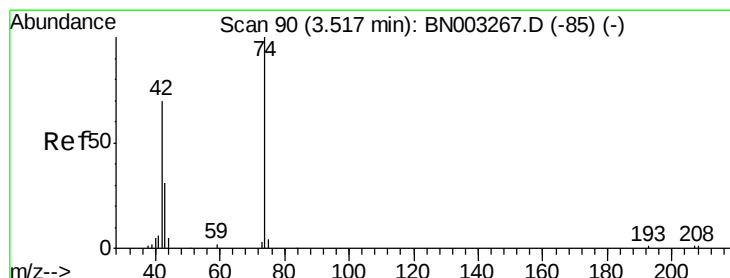
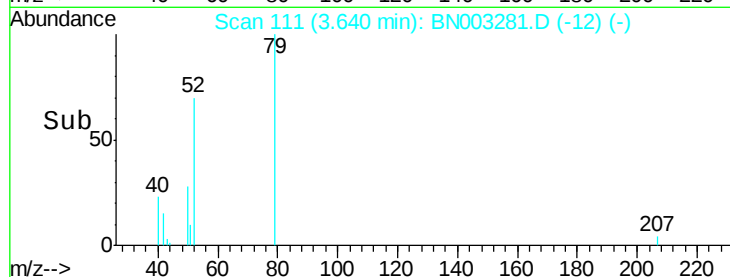
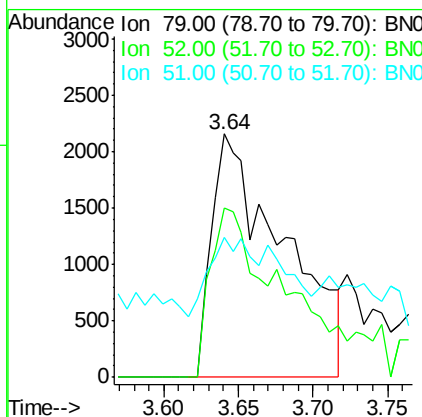
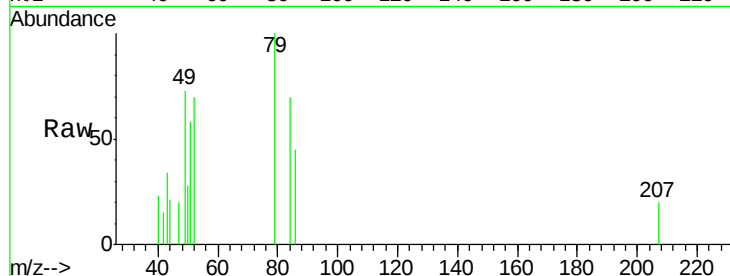
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 79    | Resp: | 7242  |
| Ion Ratio | Lower | Upper |       |
| 79        | 100   |       |       |
| 52        | 69.6  | 57.7  | 86.5  |
| 51        | 57.6  | 28.7  | 43.1# |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM



#4

n-Nitrosodimethylamine

Concen: 0.054 ng

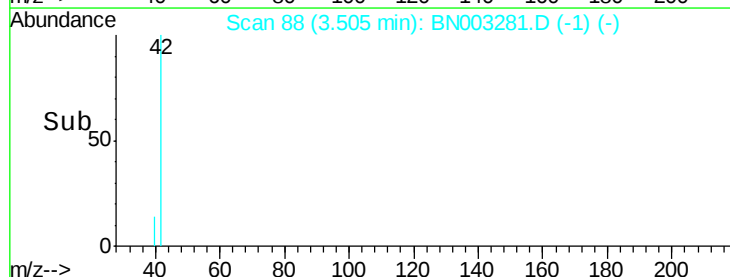
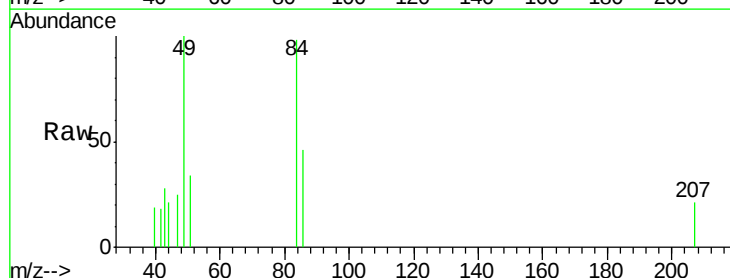
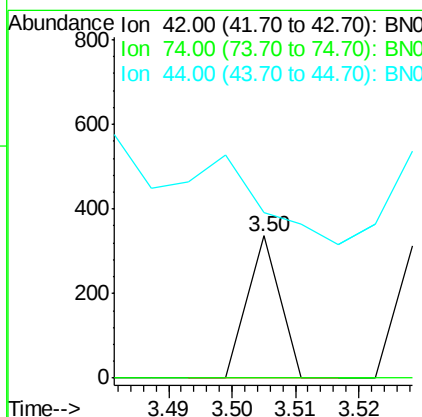
RT: 3.50 min Scan# 88

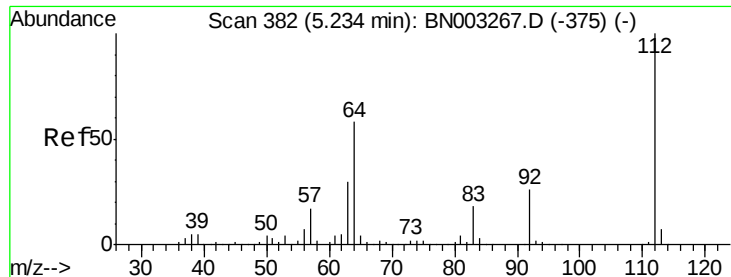
Delta R.T. -0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 42    | Resp: | 119    |
| Ion Ratio | Lower | Upper |        |
| 42        | 100   |       |        |
| 74        | 0.0   | 114.2 | 171.4# |
| 44        | 116.4 | 6.1   | 9.1#   |





#5

2-Fluorophenol

Concen: 139.533 ng

RT: 5.23 min Scan# 381

Delta R.T. -0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

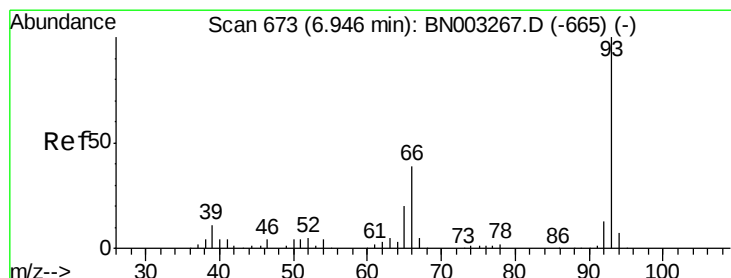
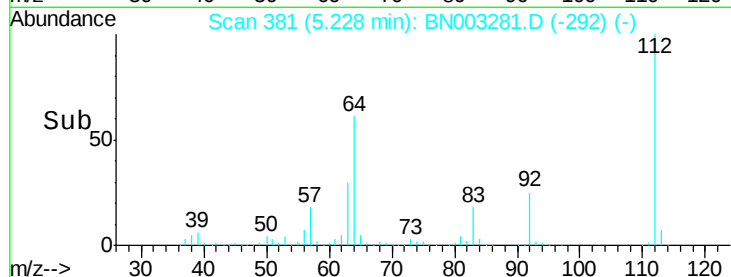
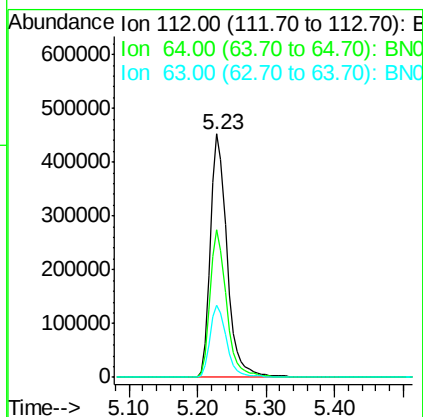
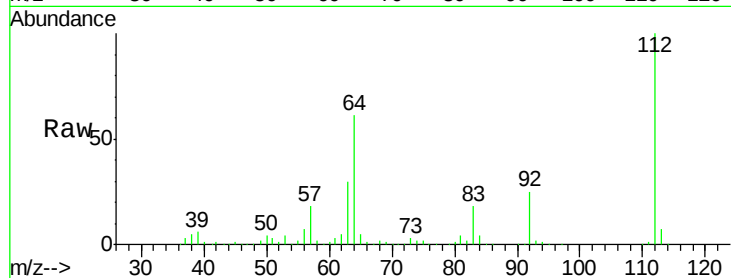
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 767369 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 60.5  | 46.6  | 69.8   |
| 63        | 29.5  | 23.8  | 35.8   |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM



#6

Aniline

Concen: 1.573 ng

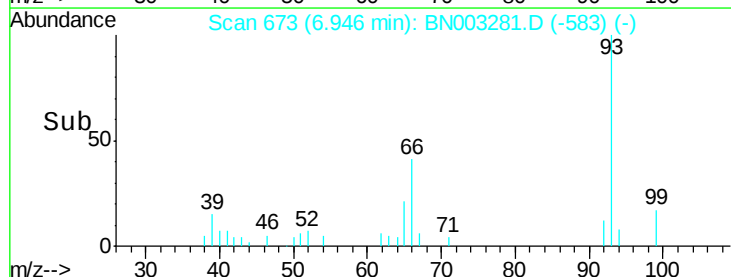
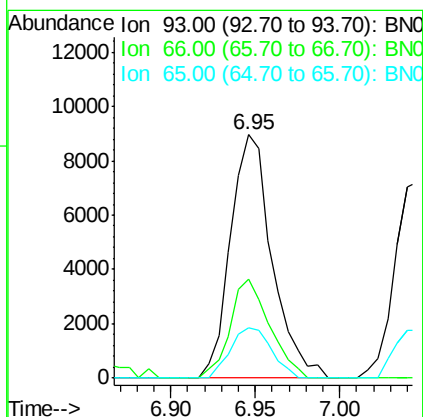
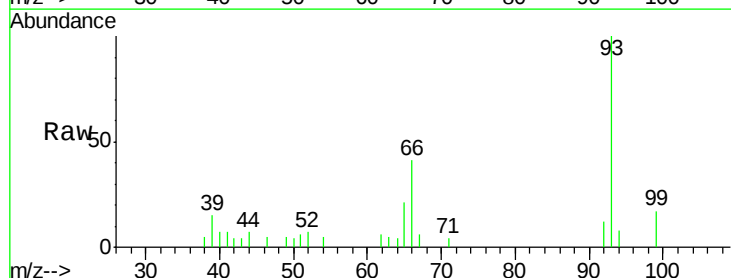
RT: 6.95 min Scan# 673

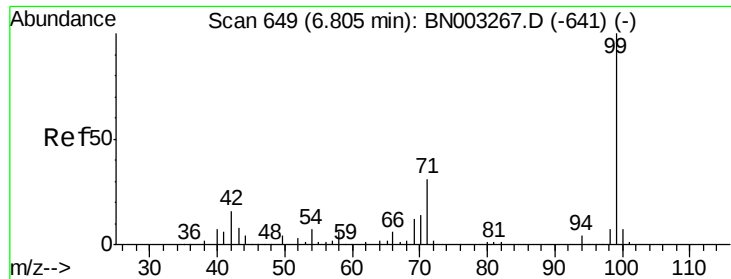
Delta R.T. 0.00 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 15363 |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 66        | 40.9  | 31.4  | 47.0  |
| 65        | 20.8  | 15.7  | 23.5  |





#7

Phenol-d6

Concen: 136.664 ng

RT: 6.80 min Scan# 648

Delta R.T. -0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 99 Resp: 1068723

Ion Ratio Lower Upper

99 100

42 16.5 13.0 19.6

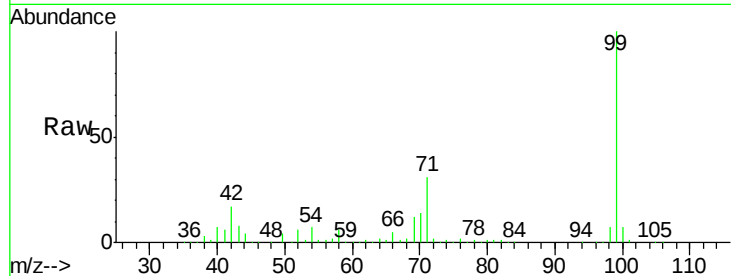
71 31.5 24.5 36.7

Manual Integrations

APPROVED

Sohil

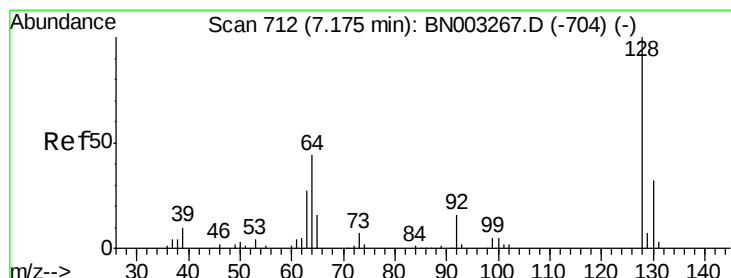
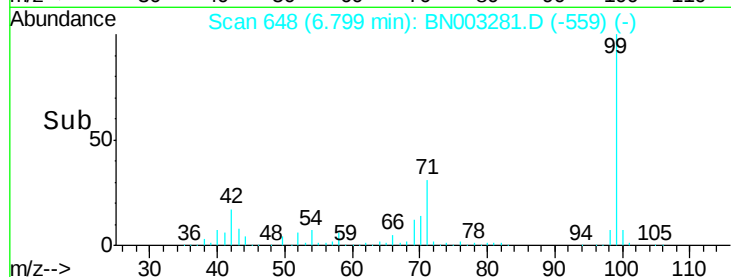
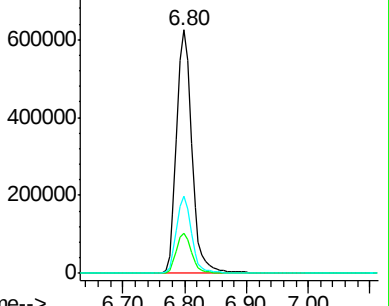
10/25/2018 3:20:17 PM



Abundance Ion 99.00 (98.70 to 99.70): BN003267.D (-641) (-)

Ion 42.00 (41.70 to 42.70): BN003267.D (-641) (-)

Ion 71.00 (70.70 to 71.70): BN003267.D (-641) (-)



#8

2-Chlorophenol

Concen: 1.978 ng

RT: 7.18 min Scan# 712

Delta R.T. 0.00 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

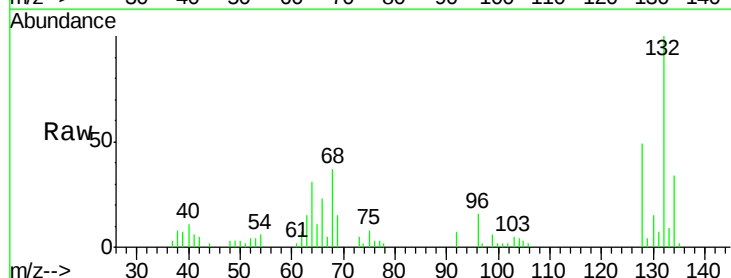
Tgt Ion: 128 Resp: 13401

Ion Ratio Lower Upper

128 100

130 31.6 12.4 52.4

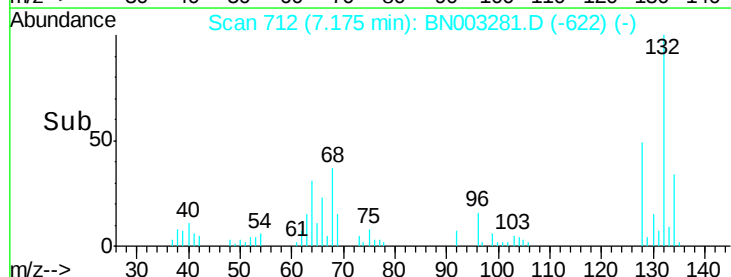
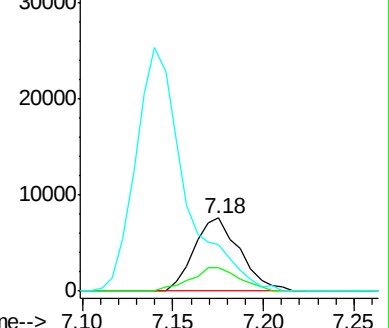
64 63.9 27.0 67.0

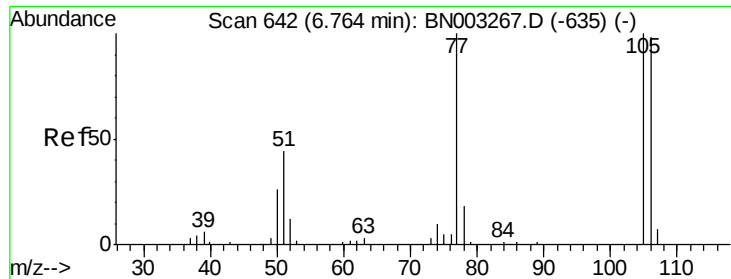


Abundance Ion 128.00 (127.70 to 128.70): BN003267.D (-704) (-)

Ion 130.00 (129.70 to 130.70): BN003267.D (-704) (-)

Ion 64.00 (63.70 to 64.70): BN003267.D (-704) (-)





#9

Benzaldehyde

Concen: 2.247 ng

RT: 6.79 min Scan# 646

Delta R.T. 0.02 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

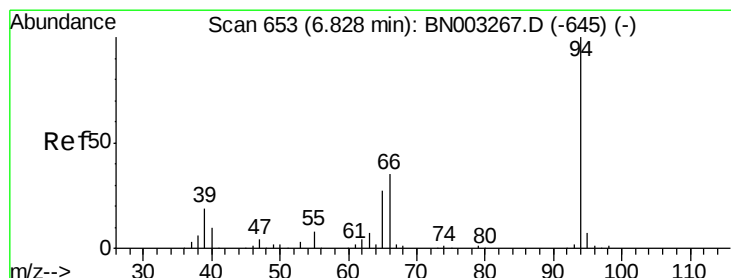
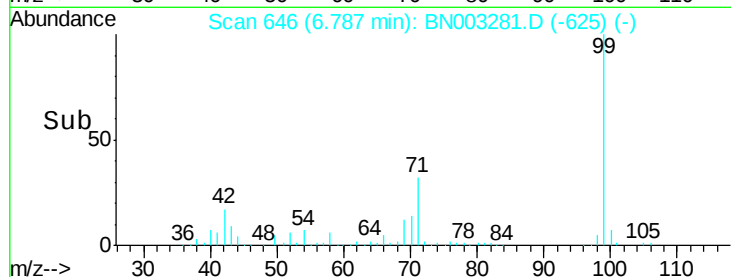
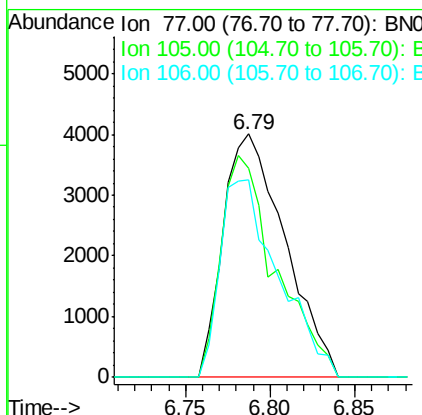
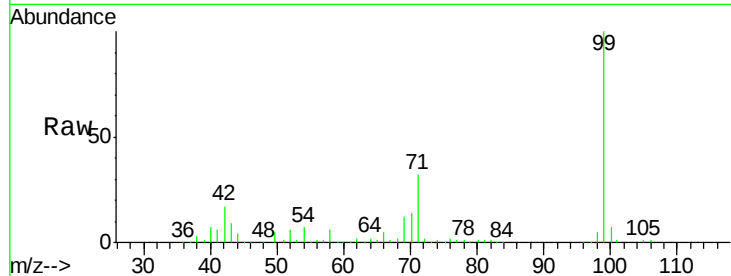
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 77 Resp: 10204  
 Ion Ratio Lower Upper  
 77 100  
 105 85.7 79.9 119.9  
 106 81.3 78.4 118.4

Manual Integrations  
 APPROVED

Sohil  
 10/25/2018 3:20:17 PM



#10

Phenol

Concen: 2.054 ng

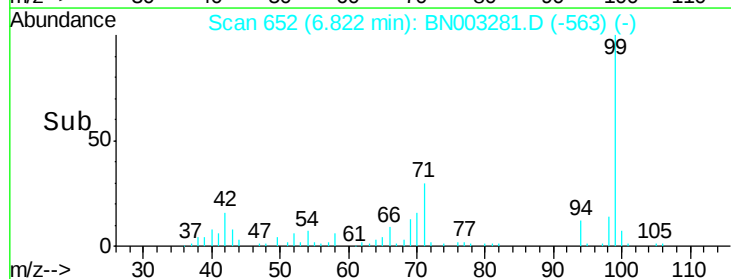
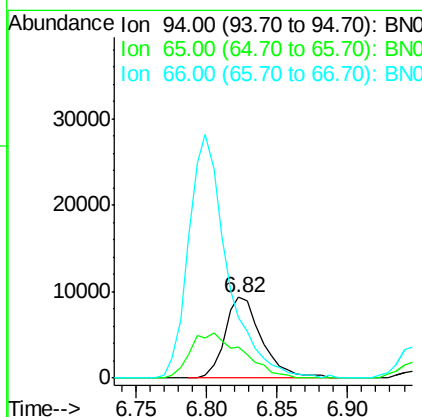
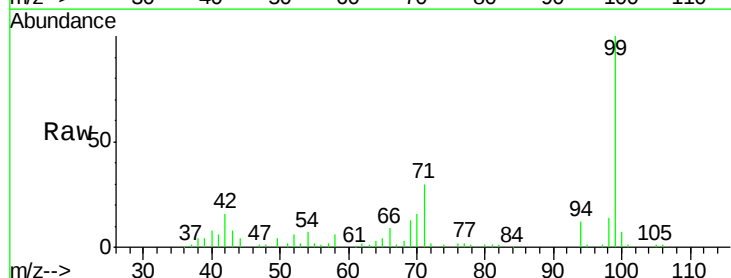
RT: 6.82 min Scan# 652

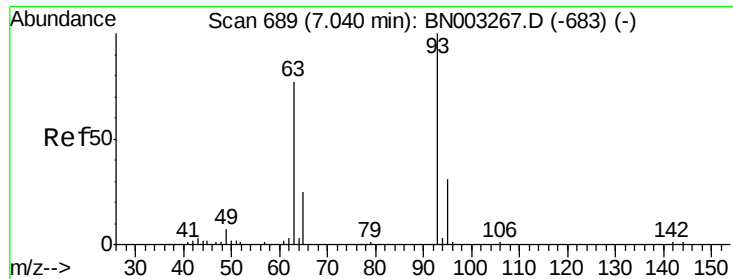
Delta R.T. -0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Tgt Ion: 94 Resp: 16947  
 Ion Ratio Lower Upper  
 94 100  
 65 38.1 7.7 47.7  
 66 74.4 15.8 55.8#





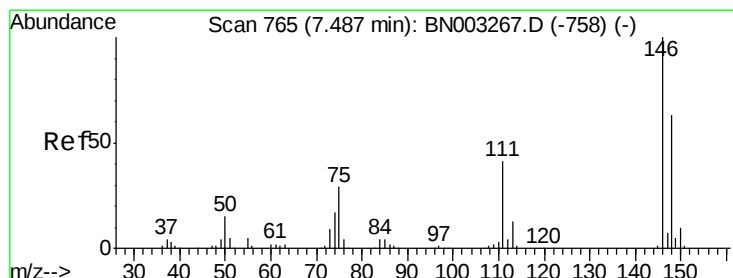
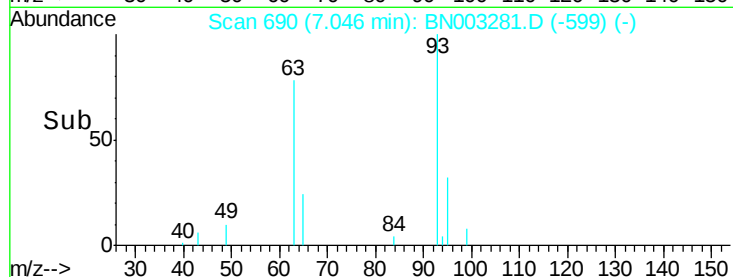
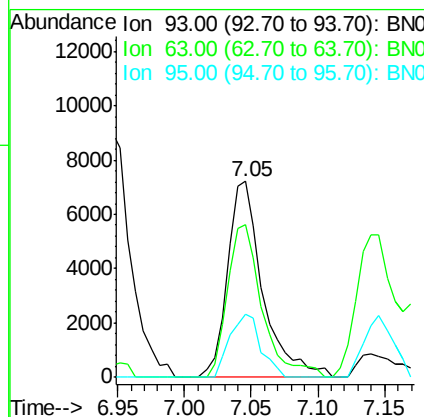
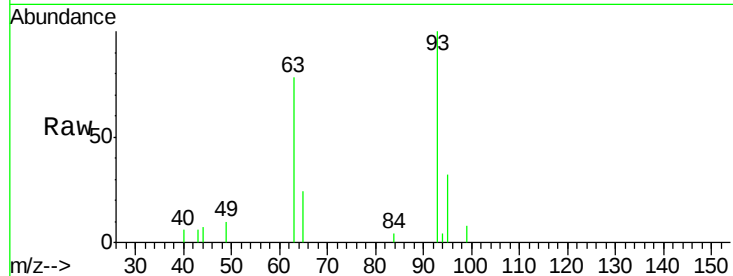
#11  
bis(2-Chloroethyl)ether  
Concen: 1.980 ng  
RT: 7.05 min Scan# 690  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 77.9  | 56.6  | 96.6  |
| 95      | 32.4  | 10.9  | 50.9  |

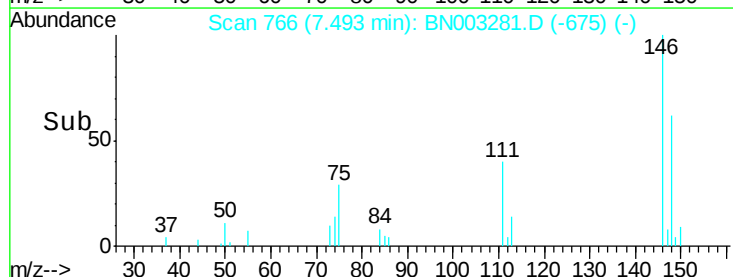
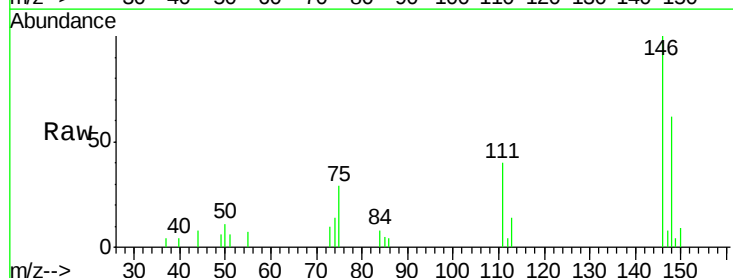
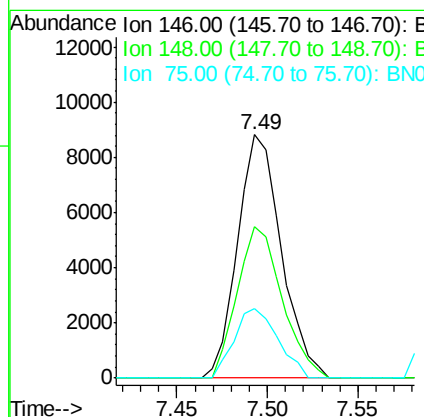
Manual Integrations  
APPROVED

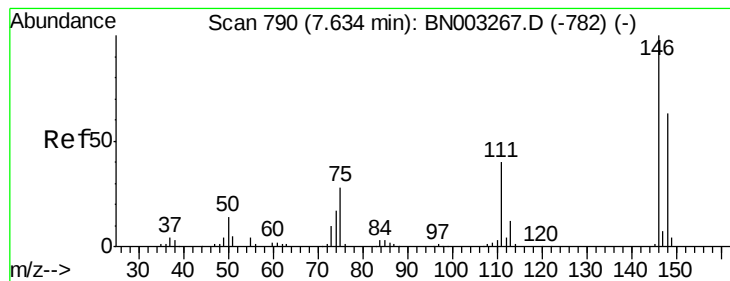
Sohil  
10/25/2018 3:20:17 PM



#12  
1,3-Dichlorobenzene  
Concen: 1.963 ng  
RT: 7.49 min Scan# 766  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 62.0  | 50.1  | 75.1  |
| 75      | 28.6  | 22.9  | 34.3  |





#13

1,4-Dichlorobenzene

Concen: 1.911 ng

RT: 7.64 min Scan# 791

Delta R.T. 0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

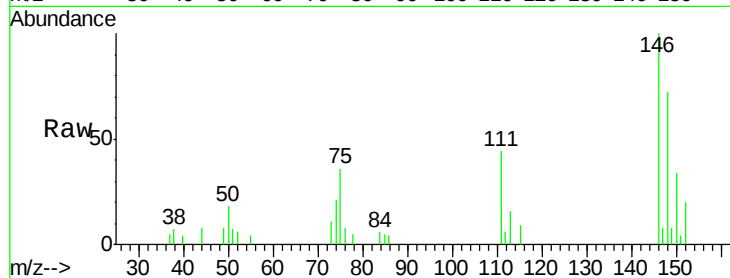
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 71.7  | 50.2  | 75.2  |
| 111     | 43.6  | 32.1  | 48.1  |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM

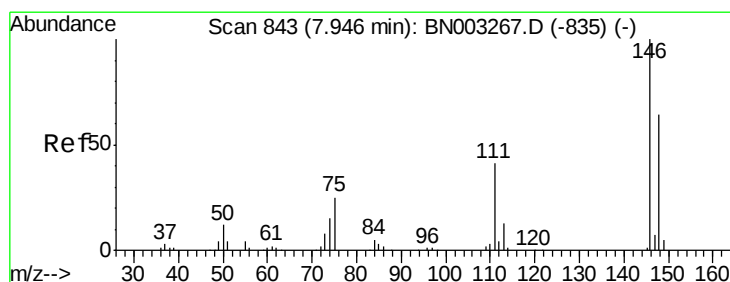
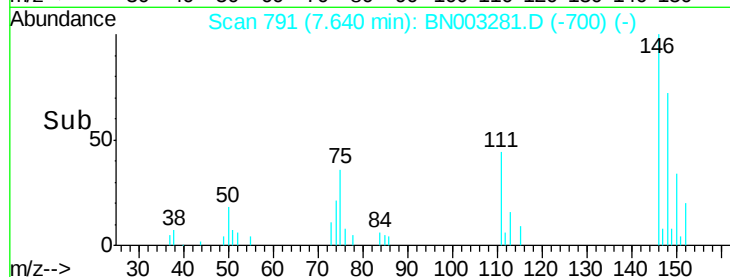
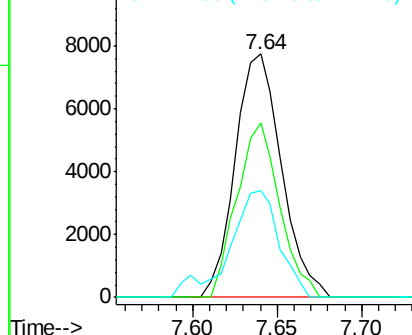


Abundance

Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 2.122 ng

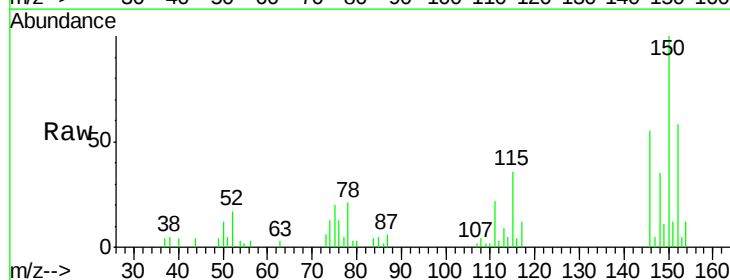
RT: 7.95 min Scan# 843

Delta R.T. 0.00 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 64.6  | 51.4  | 77.2  |
| 111     | 40.9  | 33.1  | 49.7  |

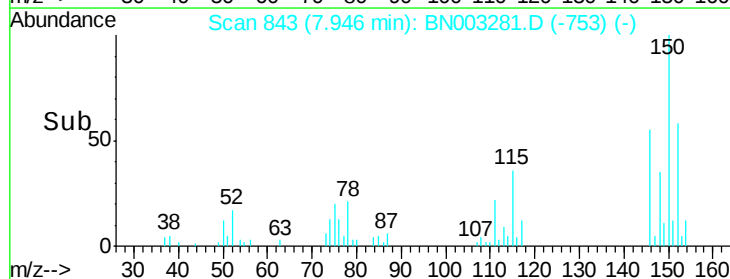
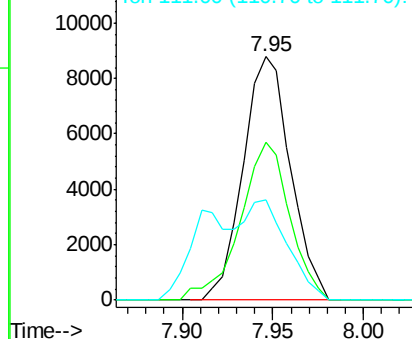


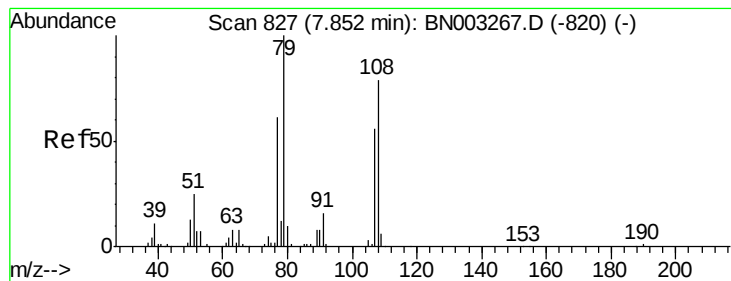
Abundance

Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 0.770 ng

RT: 7.88 min Scan# 832

Delta R.T. 0.03 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

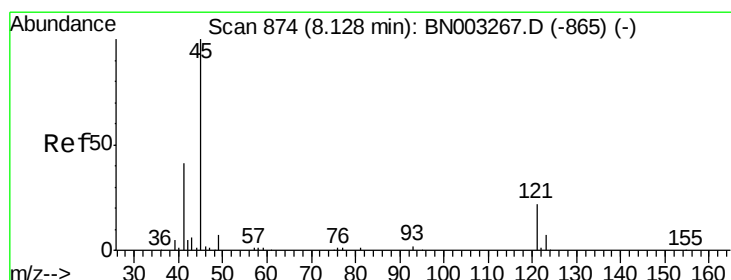
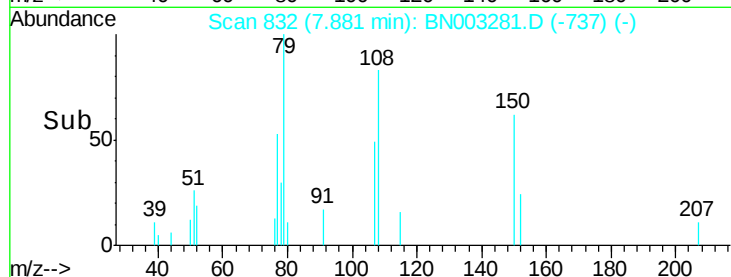
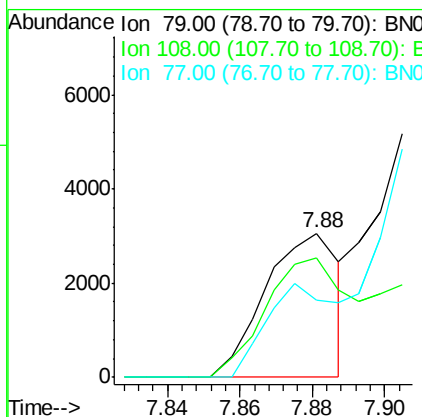
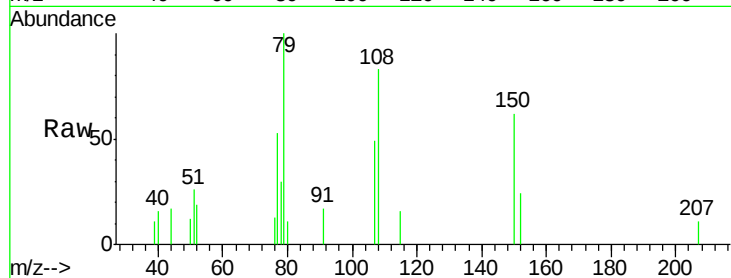
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 79    | Resp: | 4341 |
| Ion Ratio | Lower | Upper |      |
| 79        | 100   |       |      |
| 108       | 82.5  | 63.3  | 94.9 |
| 77        | 53.4  | 49.0  | 73.6 |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM



#16

2,2'-oxybis(1-Chloropropane)

Concen: 1.980 ng

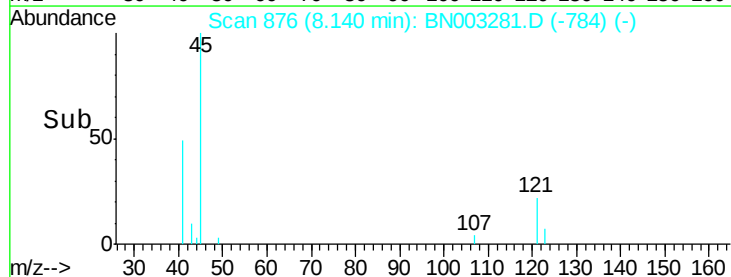
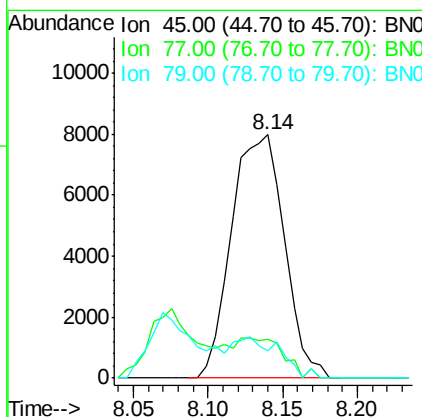
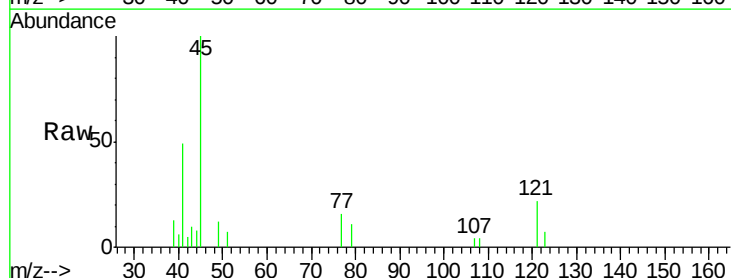
RT: 8.14 min Scan# 876

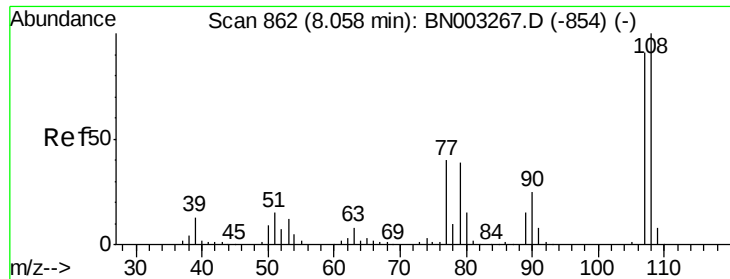
Delta R.T. 0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 45    | Resp: | 19572 |
| Ion Ratio | Lower | Upper |       |
| 45        | 100   |       |       |
| 77        | 15.8  | 0.0   | 34.0  |
| 79        | 11.3  | 0.0   | 30.9  |





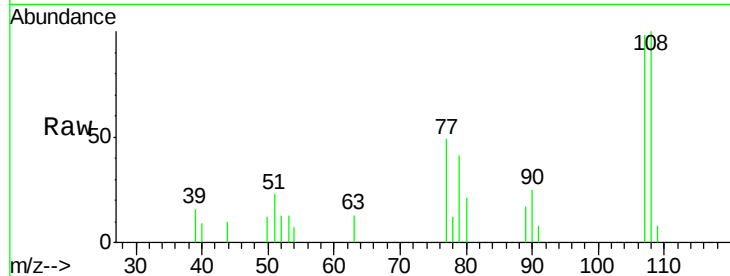
#17  
2-Methylphenol  
Concen: 1.951 ng  
RT: 8.08 min Scan# 865  
Delta R.T. 0.02 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

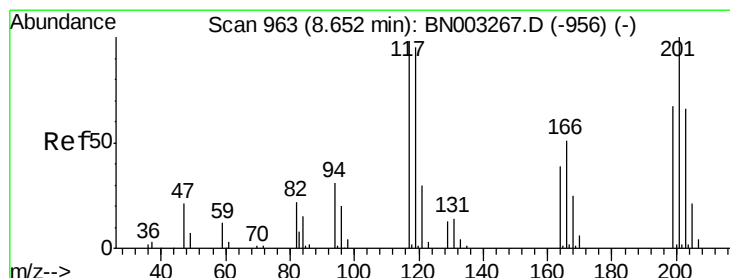
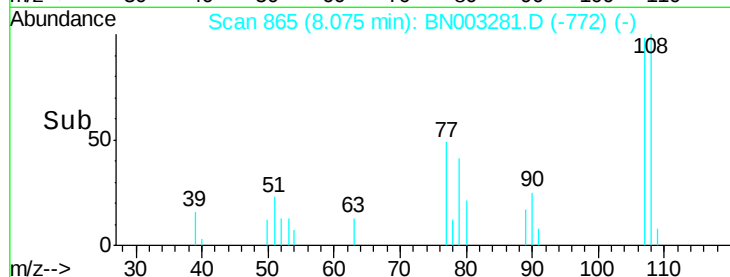
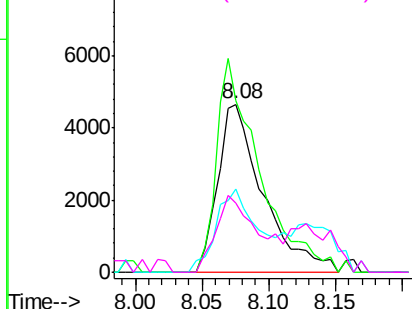
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 107   | Resp: | 11004 |
| Ion Ratio | Lower | Upper |       |
| 107       | 100   |       |       |
| 108       | 101.7 | 87.6  | 131.4 |
| 77        | 49.4  | 35.3  | 52.9  |
| 79        | 41.2  | 34.2  | 51.4  |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM



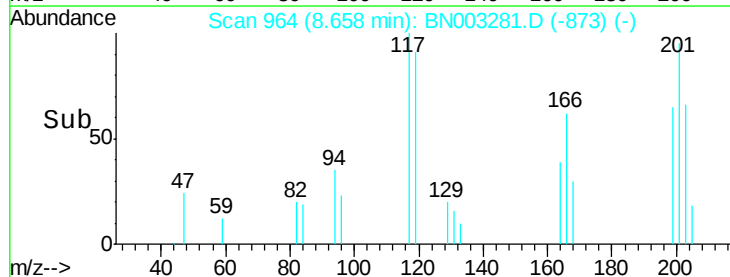
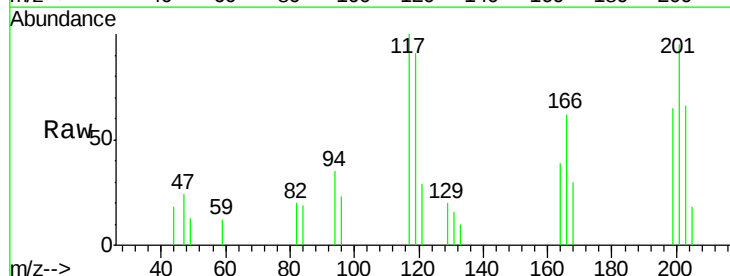
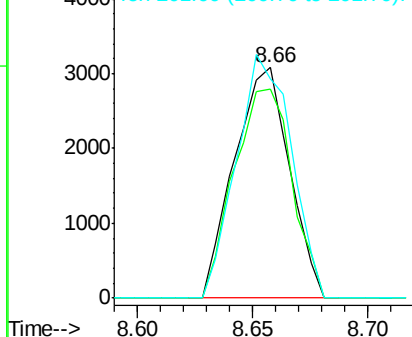
Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BNC  
Ion 79.00 (78.70 to 79.70): BNC

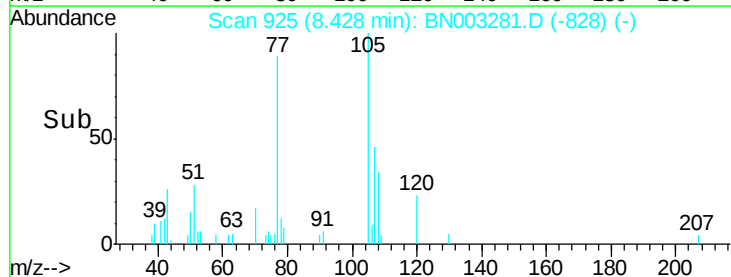
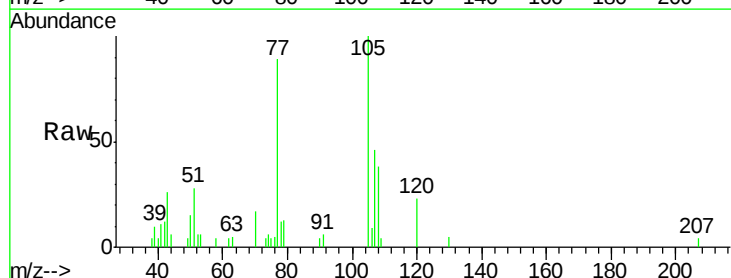
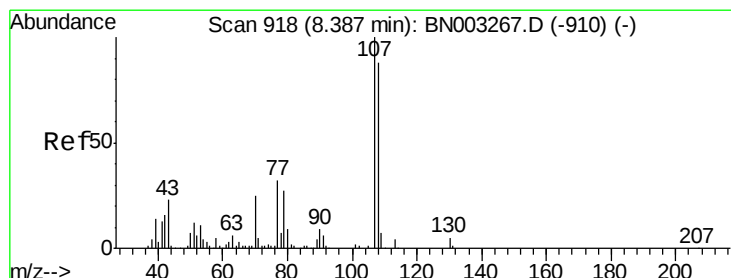
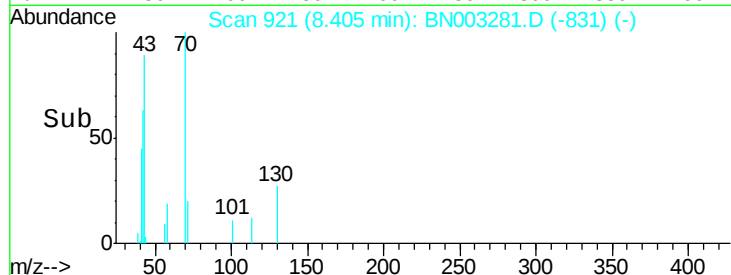
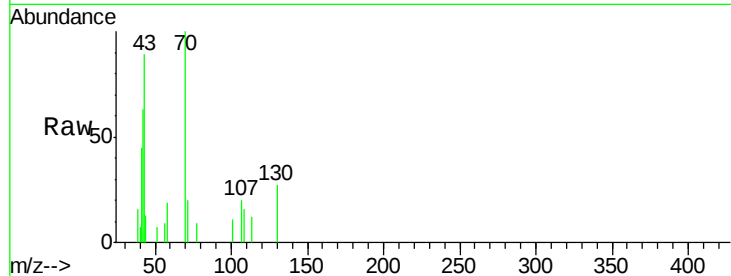
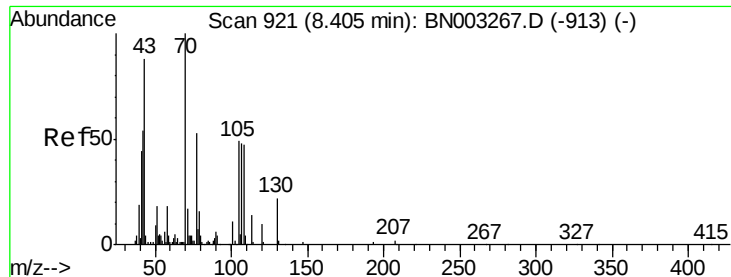


#18  
Hexachloroethane  
Concen: 1.884 ng  
RT: 8.66 min Scan# 964  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 5119  |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 90.6  | 77.8  | 116.6 |
| 201       | 95.3  | 81.4  | 122.2 |

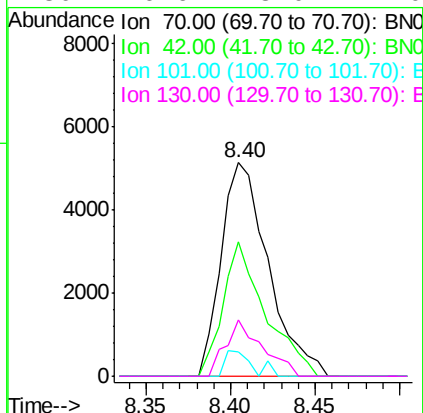
Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E





#19  
n-Nitroso-di-n-propylamine  
Concen: 1.765 ng  
RT: 8.40 min Scan# 921  
Delta R.T. 0.00 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 62.9  | 43.5  | 65.3  |
| 101     | 11.3  | 8.6   | 12.8  |
| 130     | 26.6  | 18.0  | 27.0  |



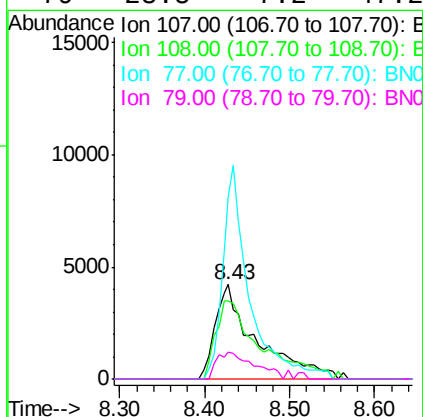
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-MDL-SOIL-03-QT4-2018

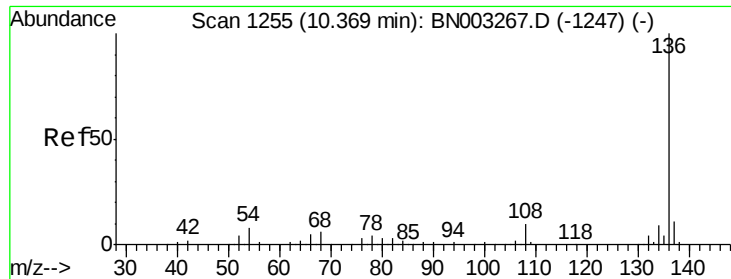
Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM

#20  
3+4-Methylphenols  
Concen: 1.780 ng m  
RT: 8.43 min Scan# 925  
Delta R.T. 0.04 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 82.5  | 67.8  | 107.8 |
| 77      | 191.9 | 12.1  | 52.1# |
| 79      | 28.5  | 7.2   | 47.2  |





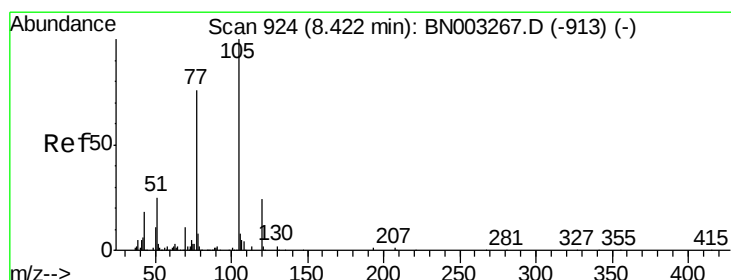
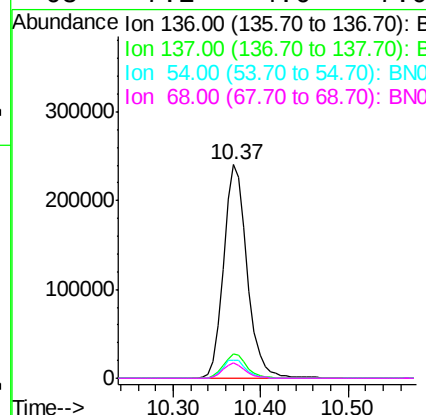
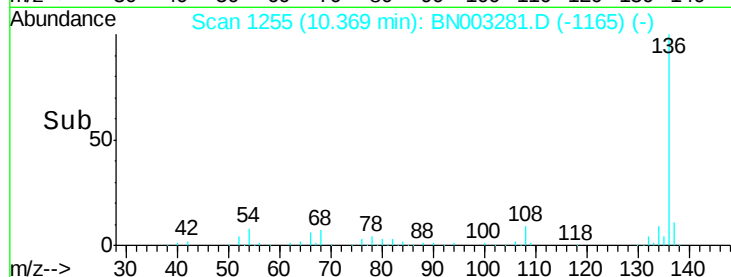
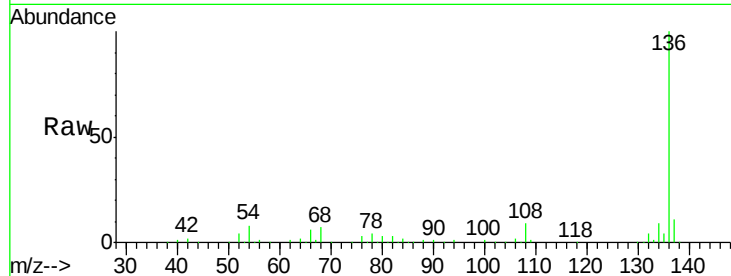
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.37 min Scan# 1255  
Delta R.T. 0.00 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 445215 |       |       |
| 137     | 11.1  | 8.7    | 13.1  |       |
| 54      | 8.5   | 6.6    | 10.0  |       |
| 68      | 7.1   | 4.6    | 7.0   |       |

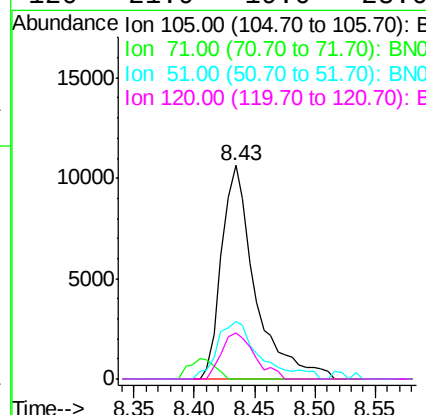
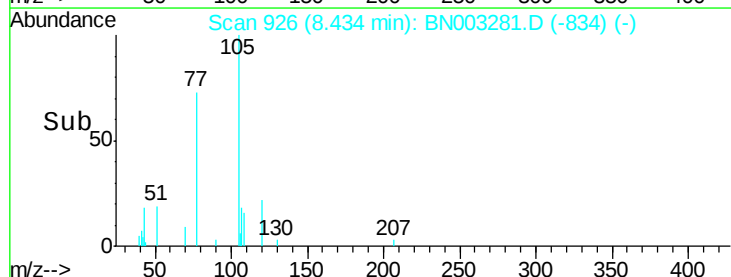
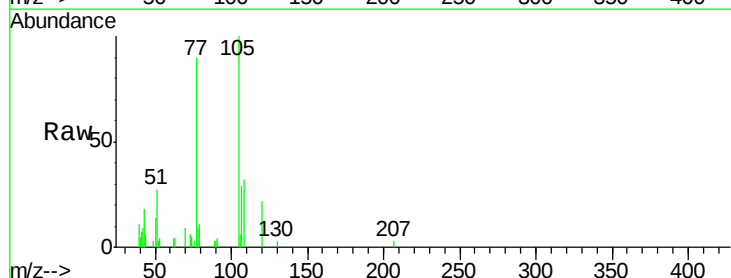
Manual Integrations  
APPROVED

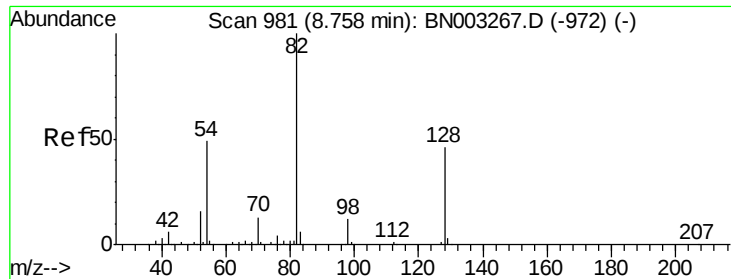
Sohil  
10/25/2018 3:20:17 PM



#22  
Acetophenone  
Concen: 1.903 ng  
RT: 8.43 min Scan# 926  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 20533 |       |       |
| 71      | 0.0   | 1.3   | 1.9   |       |
| 51      | 27.1  | 20.5  | 30.7  |       |
| 120     | 21.9  | 19.0  | 28.6  |       |





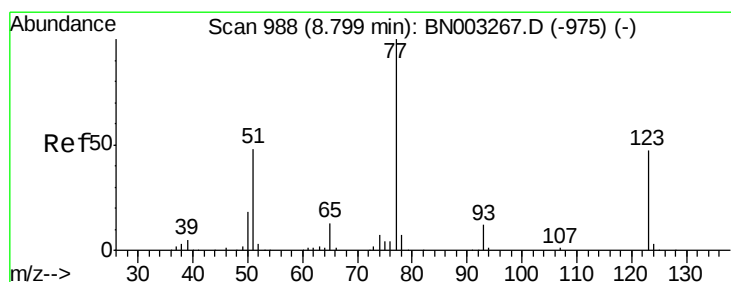
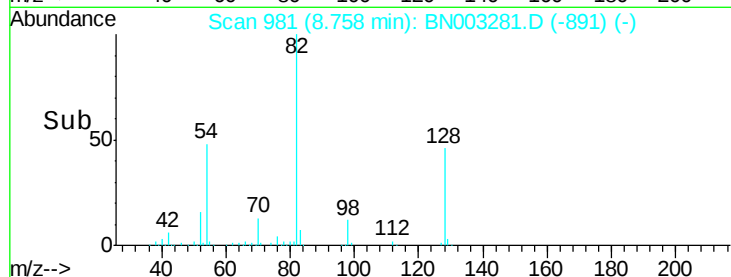
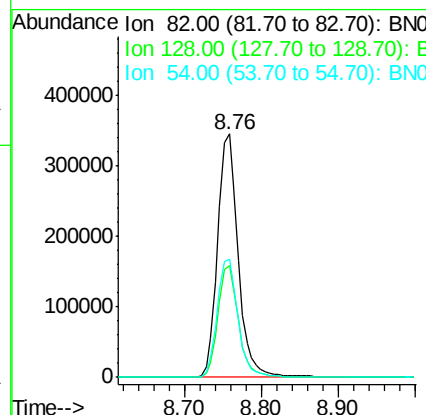
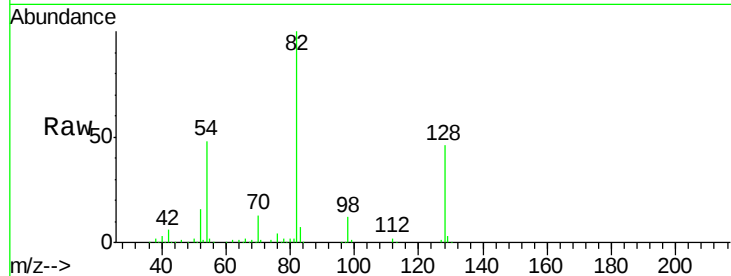
#23  
Nitrobenzene-d5  
Concen: 81.833 ng  
RT: 8.76 min Scan# 981  
Delta R.T. 0.00 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.0  | 37.1  | 55.7  |
| 54      | 48.5  | 39.4  | 59.2  |

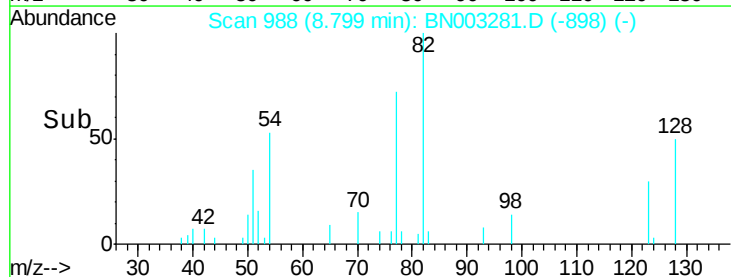
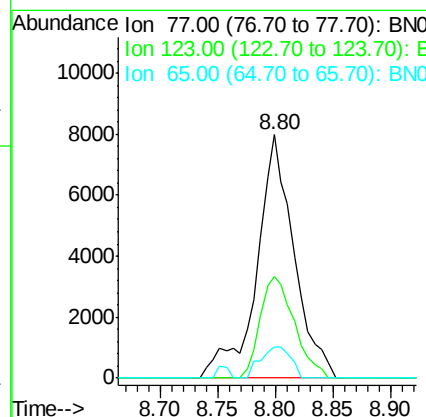
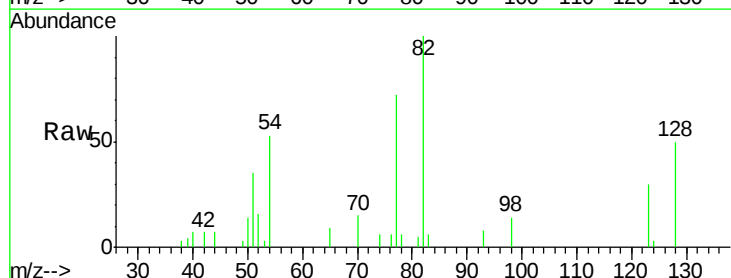
Manual Integrations  
APPROVED

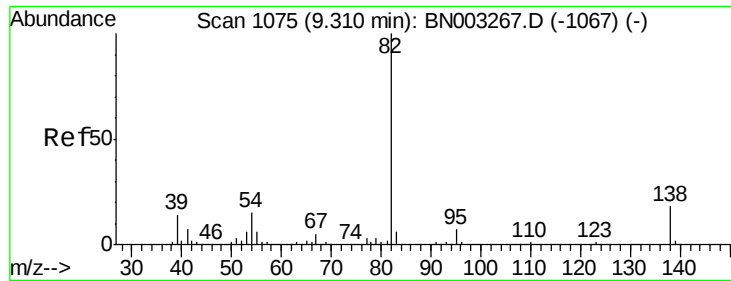
Sohil  
10/25/2018 3:20:17 PM



#24  
Nitrobenzene  
Concen: 2.267 ng  
RT: 8.80 min Scan# 988  
Delta R.T. 0.00 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 41.6  | 37.8  | 56.6  |
| 65      | 12.9  | 10.7  | 16.1  |





#25

Isophorone

Concen: 2.090 ng

RT: 9.32 min Scan# 1077

Delta R.T. 0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

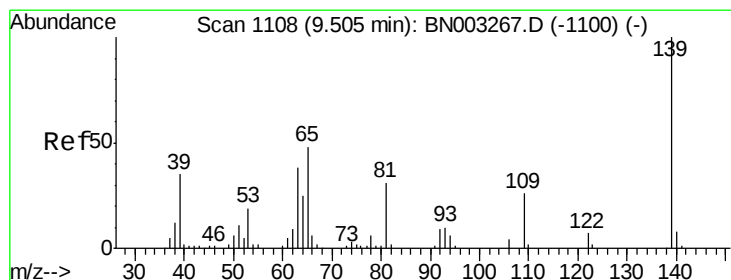
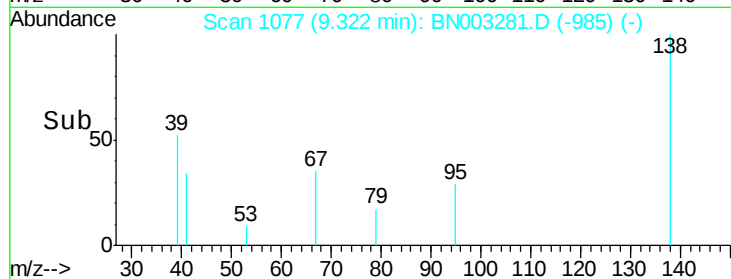
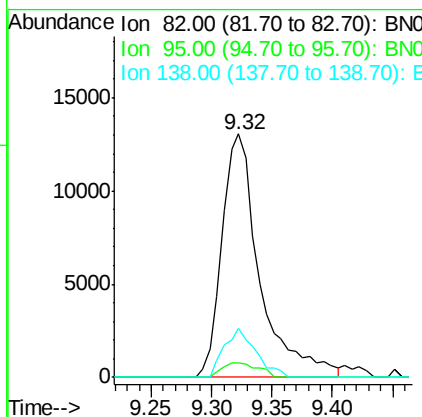
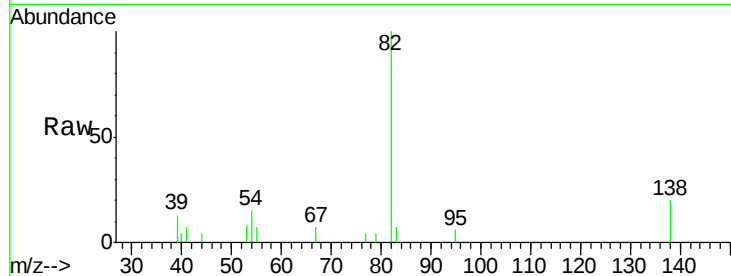
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 28456 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 95        | 5.7   | 5.4   | 8.0   |
| 138       | 20.1  | 14.5  | 21.7  |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM



#26

2-Nitrophenol

Concen: 1.240 ng

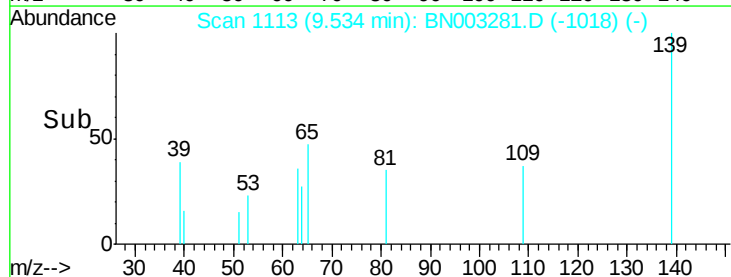
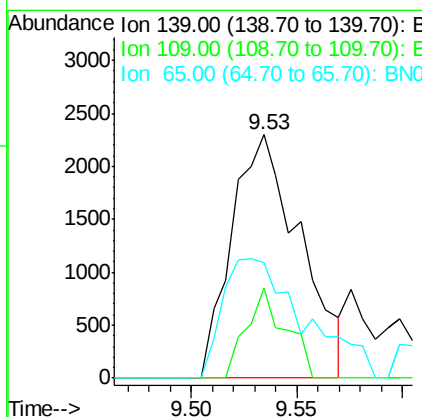
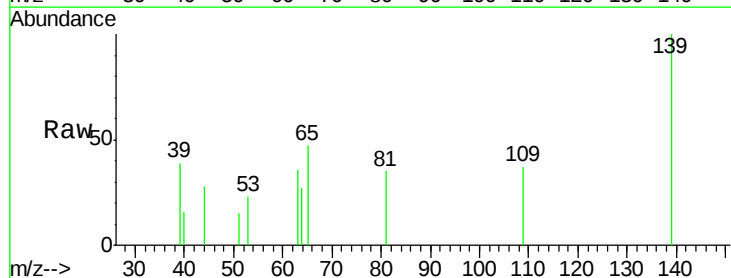
RT: 9.53 min Scan# 1113

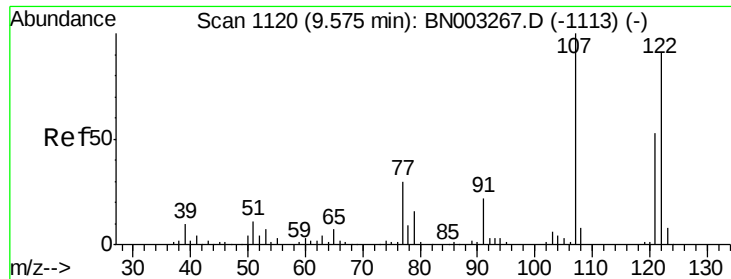
Delta R.T. 0.03 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 139   | Resp: | 5170  |
| Ion Ratio | Lower | Upper |       |
| 139       | 100   |       |       |
| 109       | 37.2  | 20.5  | 30.7# |
| 65        | 47.4  | 38.4  | 57.6  |





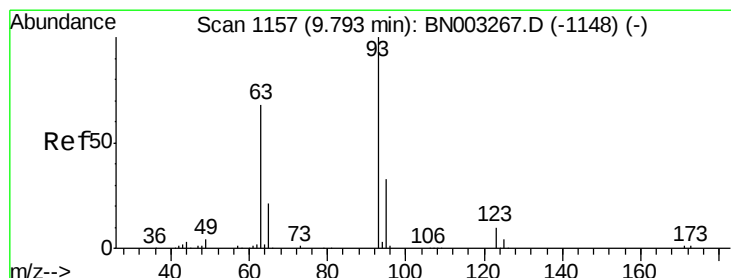
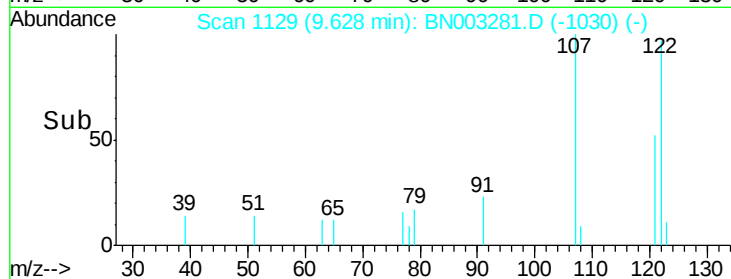
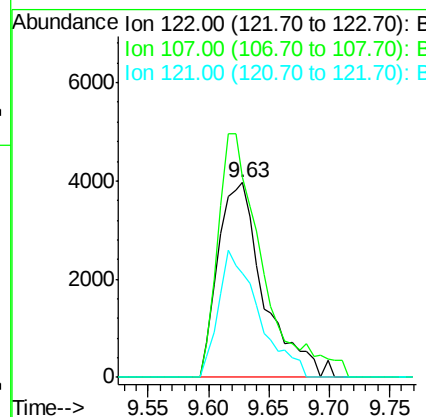
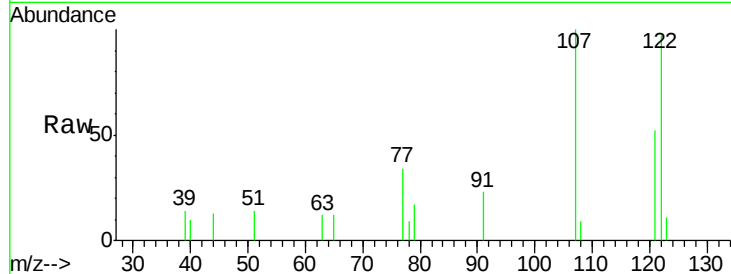
#27  
 2,4-Dimethylphenol  
 Concen: 1.777 ng  
 RT: 9.63 min Scan# 1129  
 Delta R.T. 0.05 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 122     | 100   | 10416 |       |       |
| 107     | 102.9 | 87.8  | 131.6 |       |
| 121     | 53.2  | 46.9  | 70.3  |       |

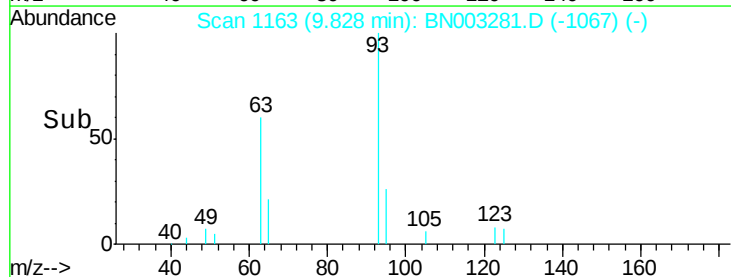
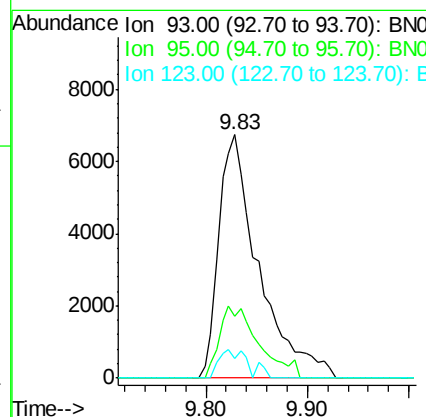
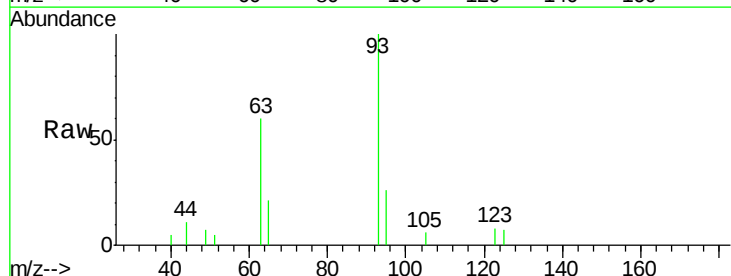
Manual Integrations  
 APPROVED

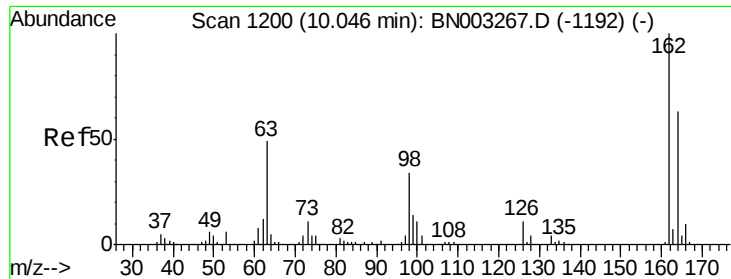
Sohil  
 10/25/2018 3:20:17 PM



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 2.007 ng  
 RT: 9.83 min Scan# 1163  
 Delta R.T. 0.04 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 93      | 100   | 18414 |       |       |
| 95      | 25.6  | 26.2  | 39.4# |       |
| 123     | 8.2   | 9.1   | 13.7# |       |





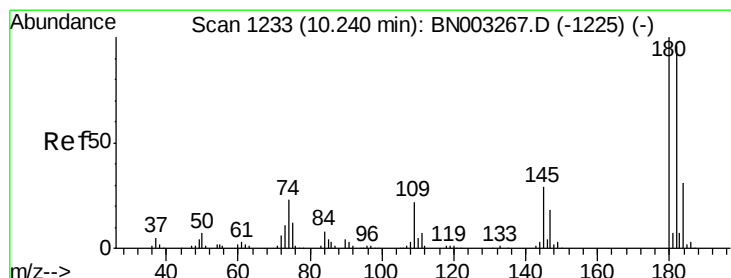
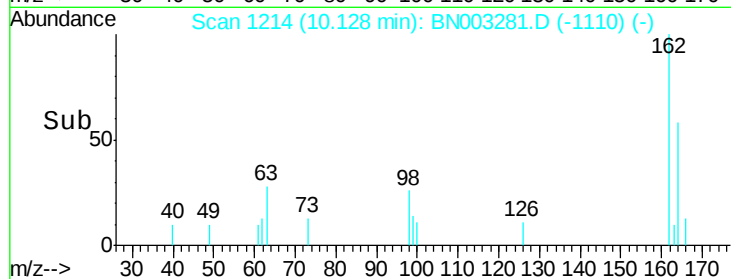
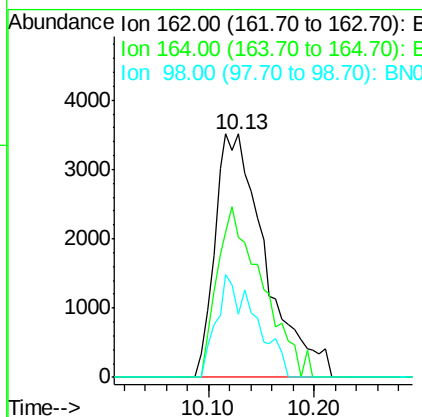
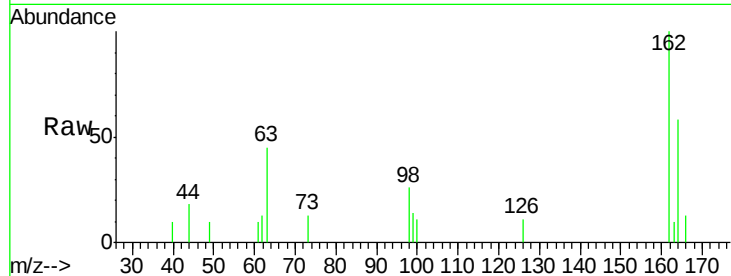
#29  
 2,4-Dichlorophenol  
 Concen: 1.741 ng  
 RT: 10.13 min Scan# 1214  
 Delta R.T. 0.08 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 162     | 100   | 11647 |       |       |
| 164     | 57.6  | 42.5  | 82.5  |       |
| 98      | 26.1  | 14.0  | 54.0  |       |

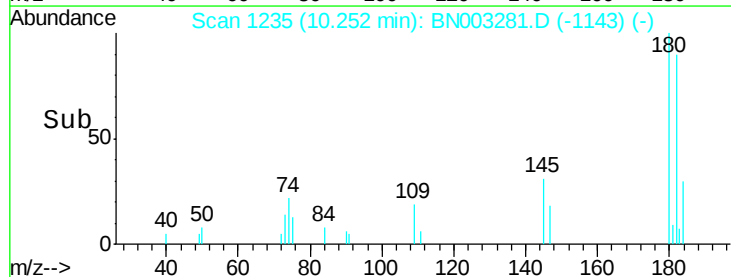
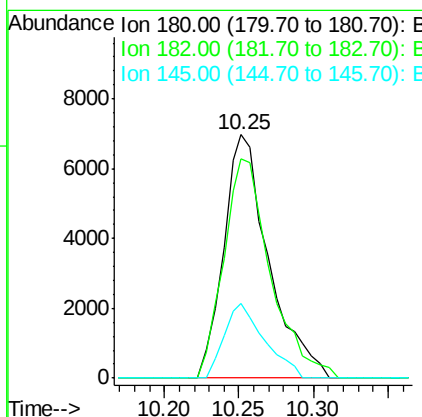
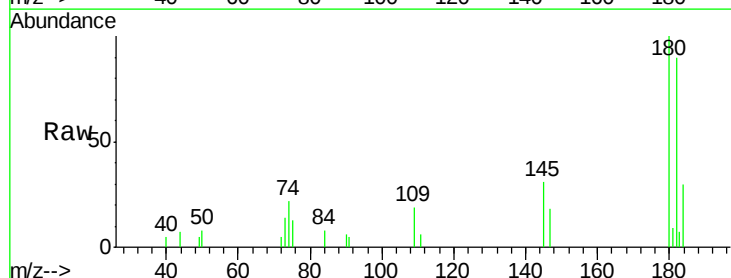
Manual Integrations  
 APPROVED

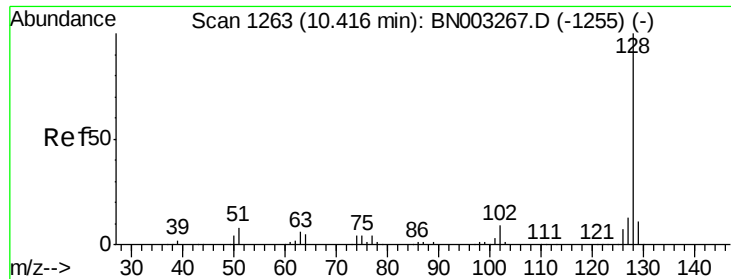
Sohil  
 10/25/2018 3:20:17 PM



#30  
 1,2,4-Trichlorobenzene  
 Concen: 1.928 ng  
 RT: 10.25 min Scan# 1235  
 Delta R.T. 0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 180     | 100   | 14661 |       |       |
| 182     | 90.1  | 76.4  | 114.6 |       |
| 145     | 30.8  | 23.6  | 35.4  |       |





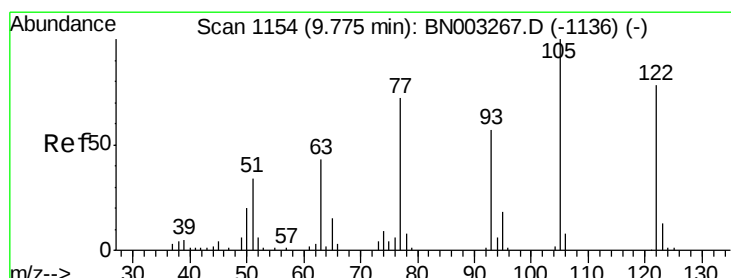
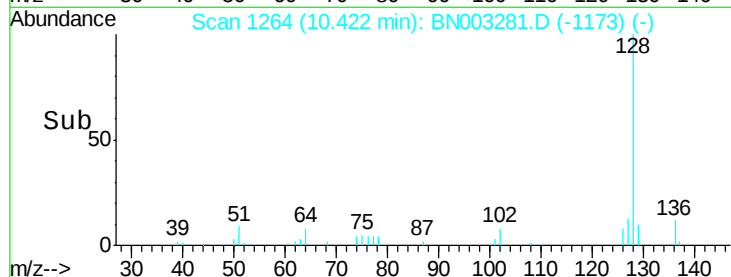
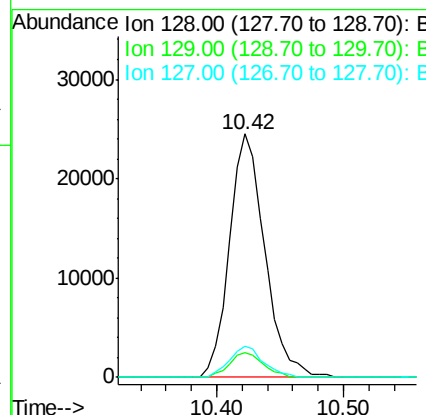
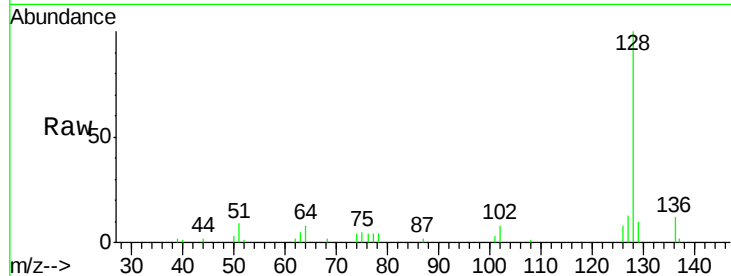
#31  
Naphthalene  
Concen: 2.169 ng  
RT: 10.42 min Scan# 1264  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.0  | 9.0   | 13.6  |
| 127     | 12.5  | 10.4  | 15.6  |

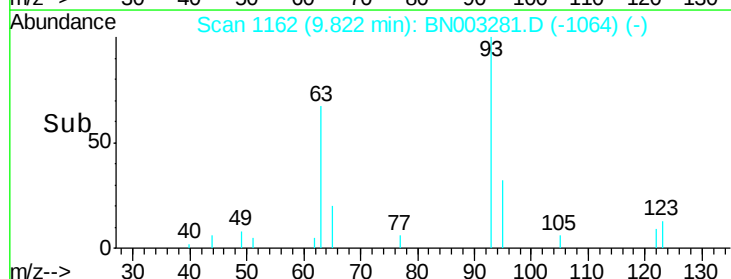
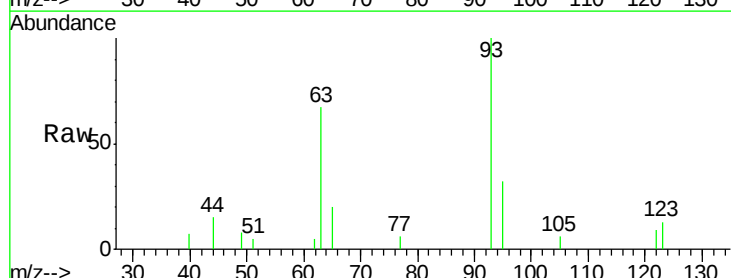
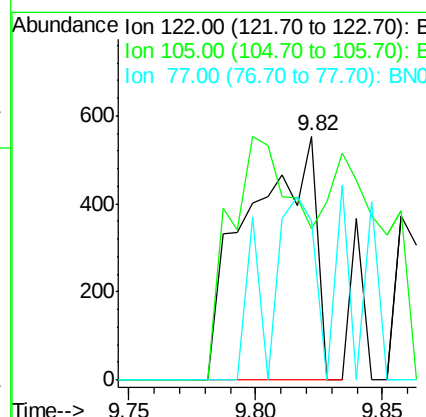
Manual Integrations  
APPROVED

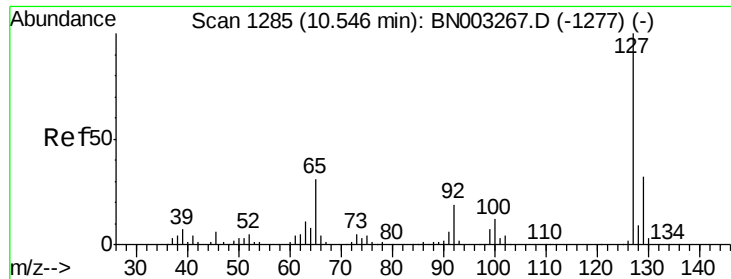
Sohil  
10/25/2018 3:20:17 PM



#32  
Benzoic acid  
Concen: 5.189 ng  
RT: 9.82 min Scan# 1162  
Delta R.T. 0.05 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 62.0  | 106.8 | 146.8# |
| 77      | 65.1  | 71.9  | 111.9# |





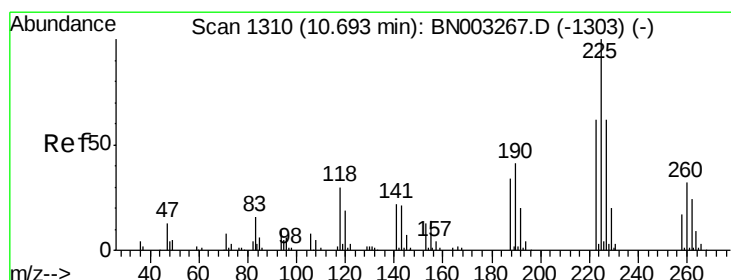
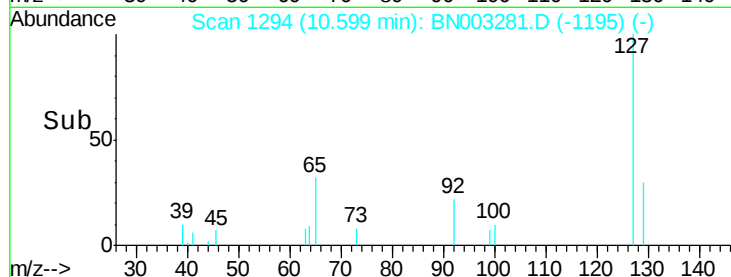
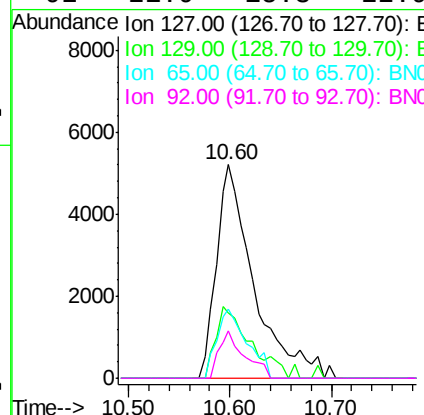
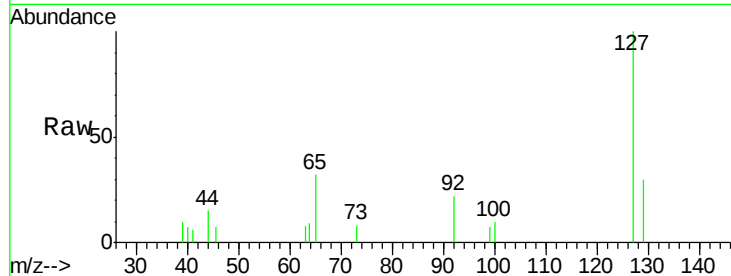
#33  
4-Chloroaniline  
Concen: 1.389 ng  
RT: 10.60 min Scan# 1294  
Delta R.T. 0.05 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 30.4  | 25.8  | 38.6  |
| 65      | 32.2  | 24.6  | 36.8  |
| 92      | 21.9  | 15.3  | 22.9  |

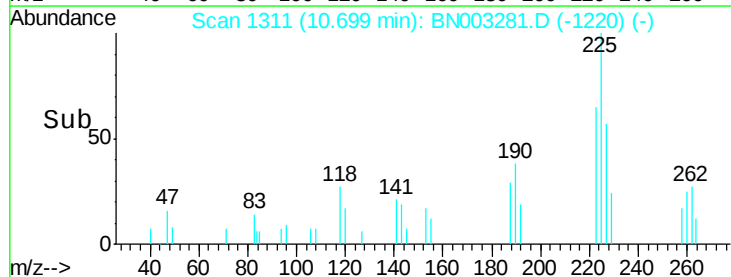
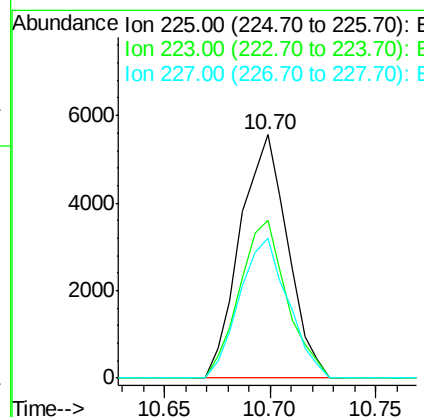
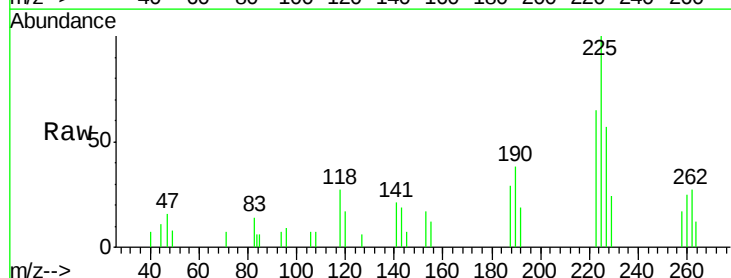
Manual Integrations  
APPROVED

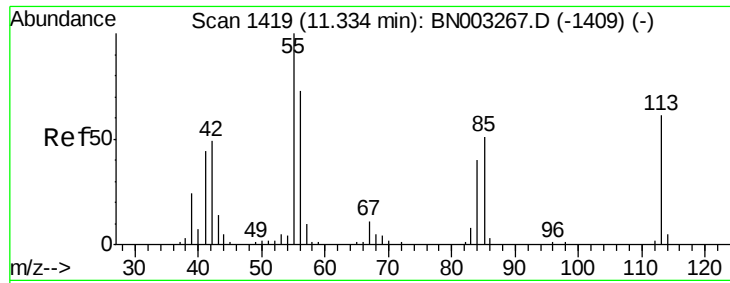
Sohil  
10/25/2018 3:20:17 PM



#34  
Hexachlorobutadiene  
Concen: 1.911 ng  
RT: 10.70 min Scan# 1311  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.7  | 49.8  | 74.8  |
| 227     | 57.3  | 49.6  | 74.4  |





#35

Caprolactam

Concen: 1.068 ng

RT: 11.35 min Scan# 1422

Delta R.T. 0.02 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:113 Resp: 2798

Ion Ratio Lower Upper

113 100

55 180.0 144.2 184.2

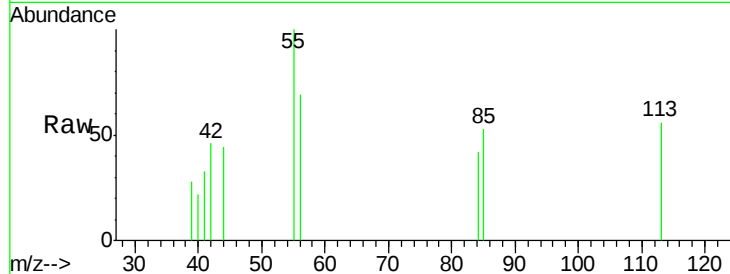
56 125.1 100.6 140.6

Manual Integrations

APPROVED

Sohil

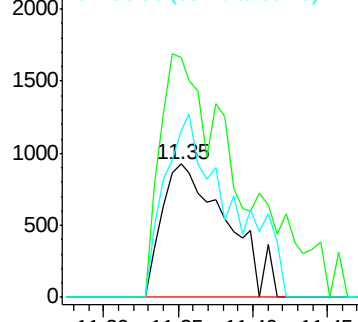
10/25/2018 3:20:17 PM



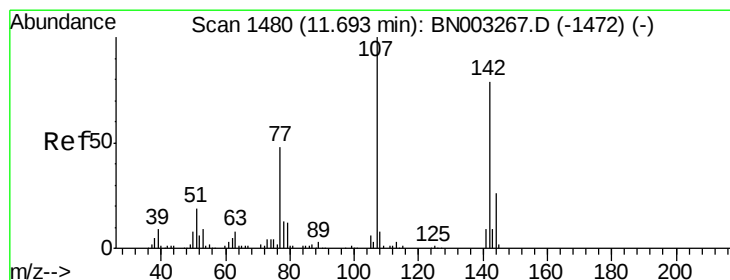
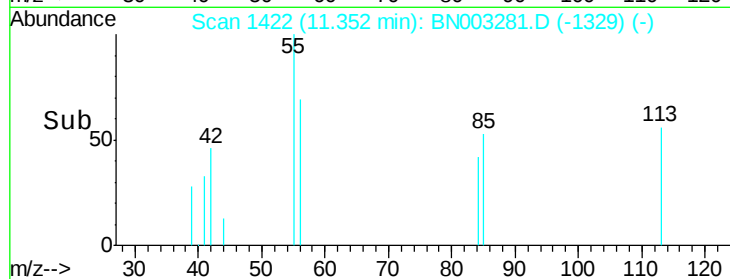
Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNO

Ion 56.00 (55.70 to 56.70): BNO



Time-->



#36

4-Chloro-3-methylphenol

Concen: 1.743 ng

RT: 11.74 min Scan# 1488

Delta R.T. 0.05 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

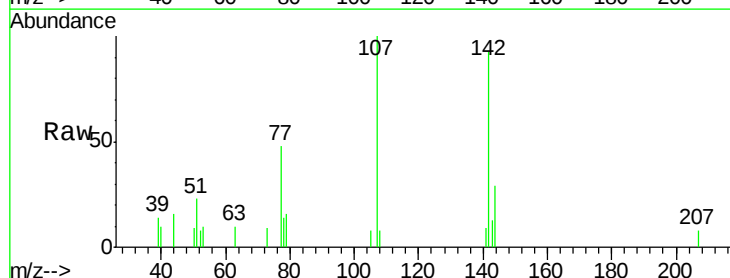
Tgt Ion:107 Resp: 13005

Ion Ratio Lower Upper

107 100

144 29.2 20.8 31.2

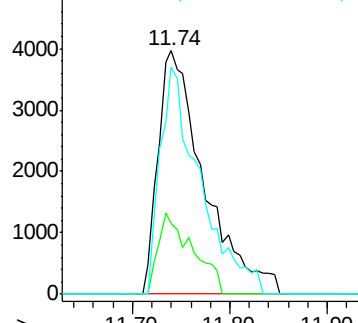
142 93.3 63.5 95.3



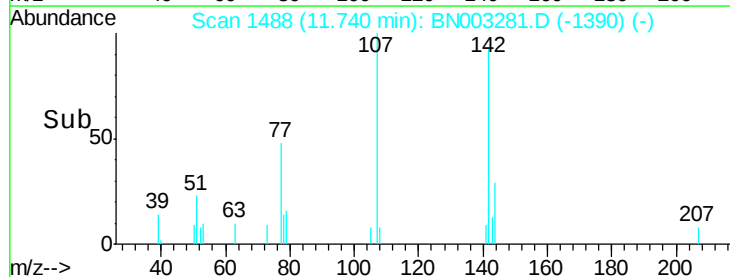
Abundance Ion 107.00 (106.70 to 107.70): E

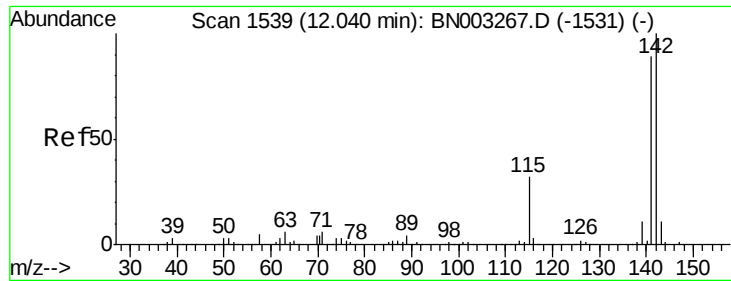
Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E



Time-->





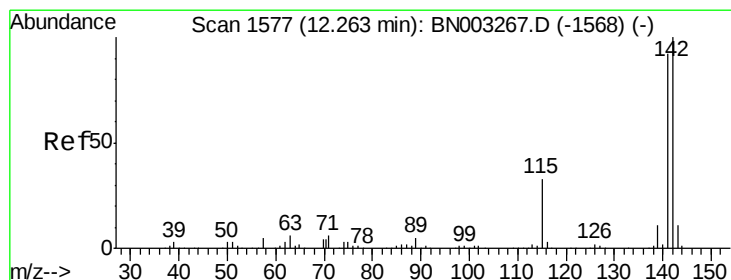
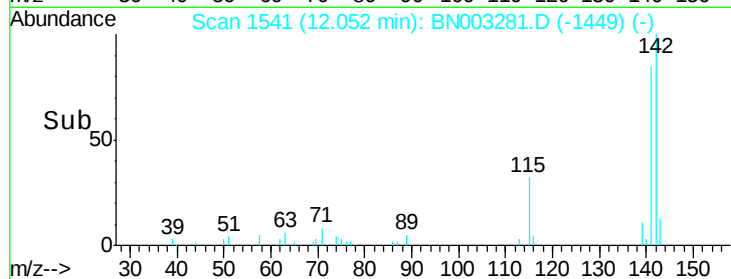
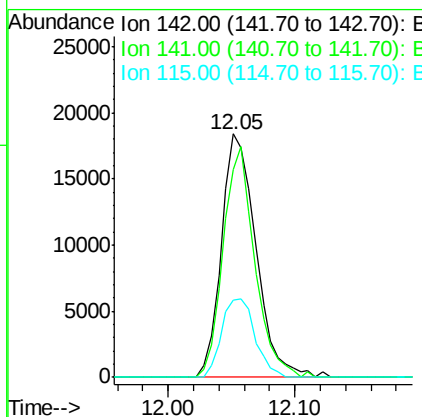
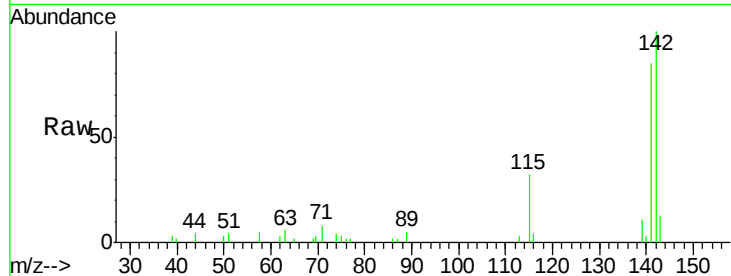
#37  
2-Methylnaphthalene  
Concen: 2.236 ng  
RT: 12.05 min Scan# 1541  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.5  | 71.6  | 107.4 |
| 115     | 31.9  | 25.5  | 38.3  |

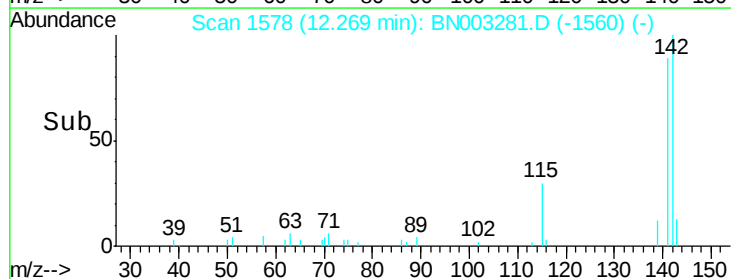
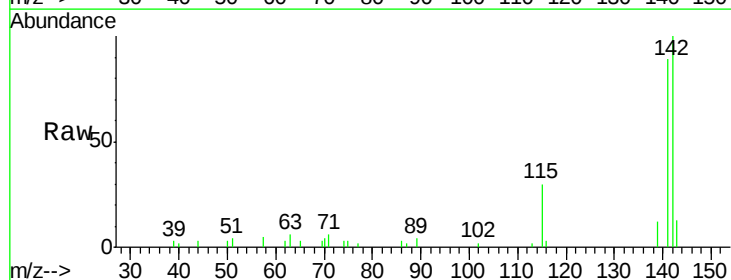
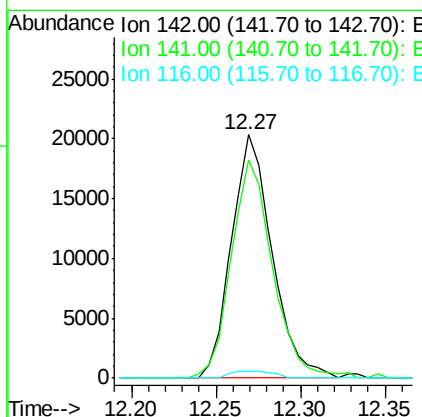
Manual Integrations  
APPROVED

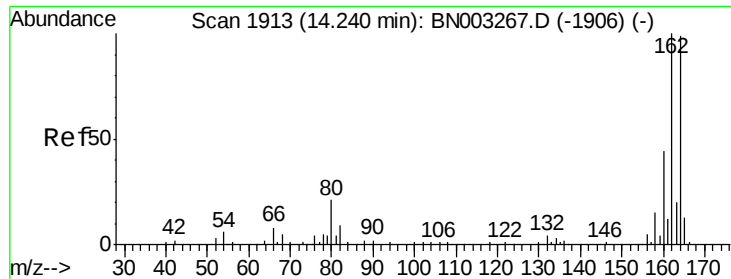
Sohil  
10/25/2018 3:20:17 PM



#38  
1-Methylnaphthalene  
Concen: 2.243 ng  
RT: 12.27 min Scan# 1578  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.3  | 73.6  | 110.4 |
| 116     | 3.0   | 2.8   | 4.2   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.24 min Scan# 1913

Delta R.T. 0.00 min

Lab File: BN003281.D

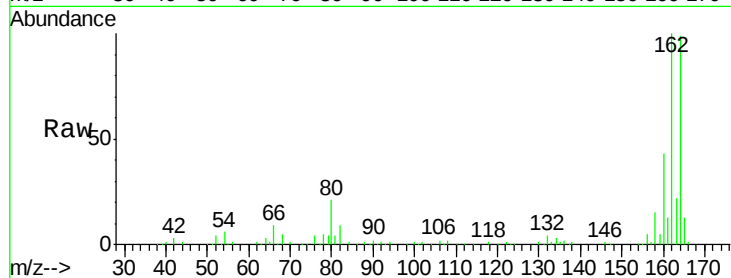
Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018



Tgt Ion:164 Resp: 287203

Ion Ratio Lower Upper

164 100

162 101.1 80.8 121.2

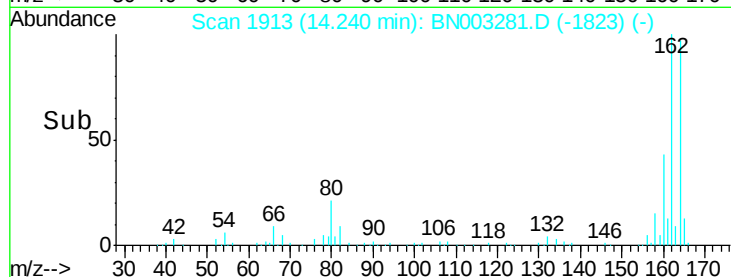
160 43.3 35.5 53.3

Manual Integrations

APPROVED

Sohil

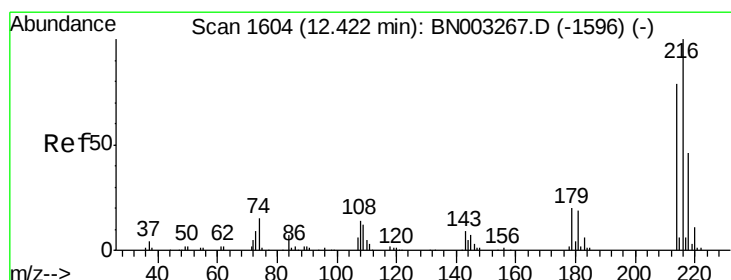
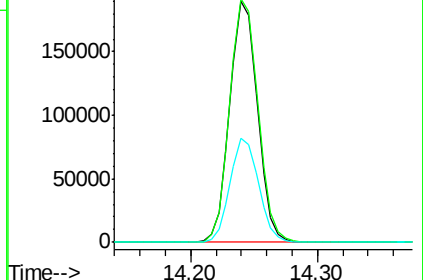
10/25/2018 3:20:17 PM



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40

1,2,4,5-Tetrachlorobenzene

Concen: 1.779 ng

RT: 12.43 min Scan# 1606

Delta R.T. 0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Tgt Ion:216 Resp: 16901

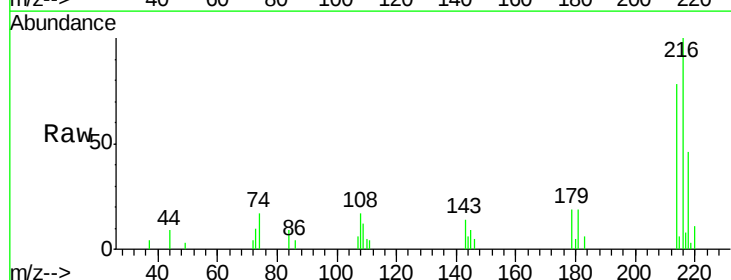
Ion Ratio Lower Upper

216 100

214 77.6 62.8 94.2

179 19.5 16.0 24.0

108 14.4 12.9 19.3

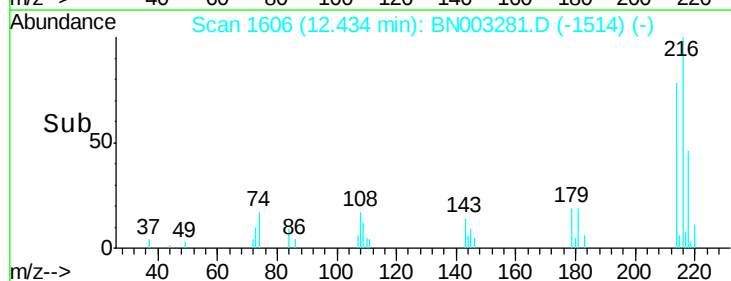
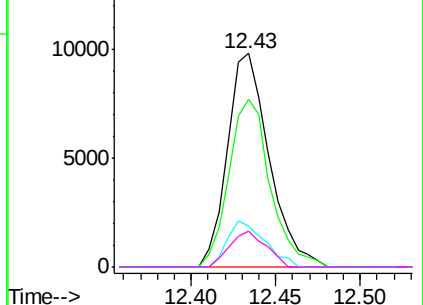


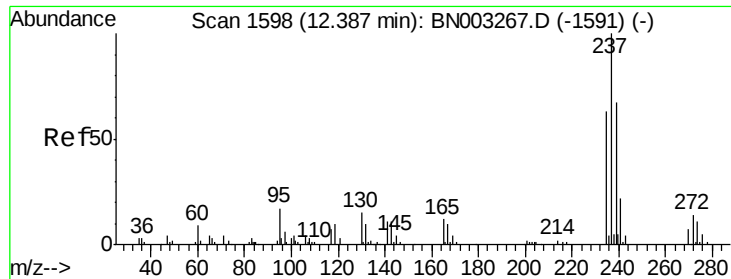
Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





#41

Hexachlorocyclopentadiene

Concen: 9.105 ng

RT: 12.39 min Scan# 1598

Delta R.T. 0.00 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

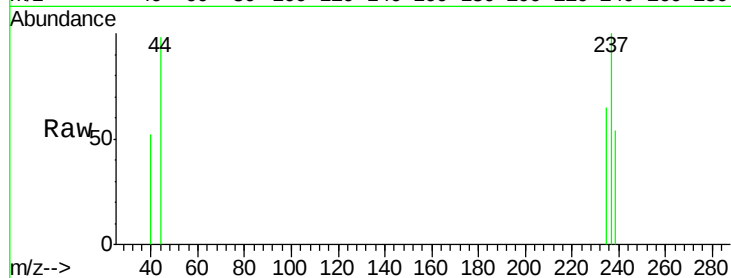
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

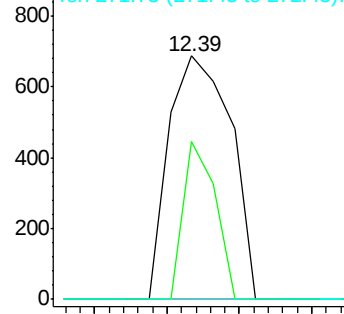
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 237   | Resp: | 817  |
| Ion Ratio | Lower | Upper |      |
| 237       | 100   |       |      |
| 235       | 64.5  | 42.8  | 82.8 |
| 272       | 0.0   | 0.0   | 33.5 |

Manual Integrations  
APPROVED

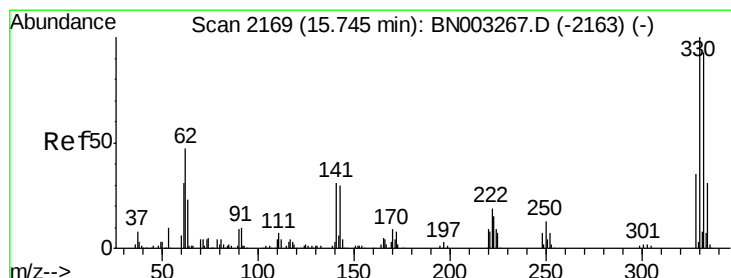
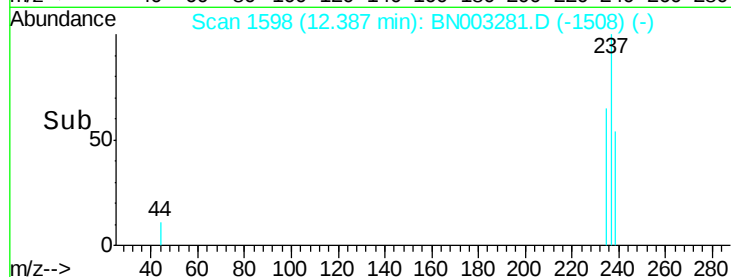
Sohil  
10/25/2018 3:20:17 PM



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



Time-->



#42

2,4,6-Tribromophenol

Concen: 138.839 ng

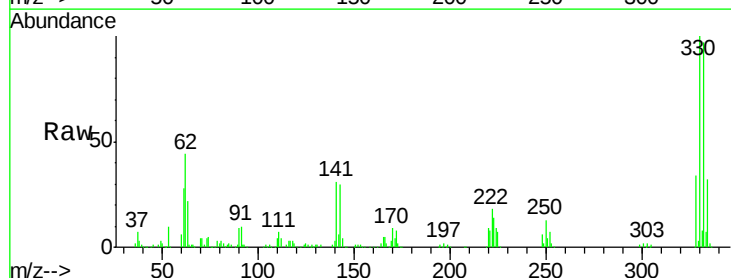
RT: 15.75 min Scan# 2169

Delta R.T. 0.00 min

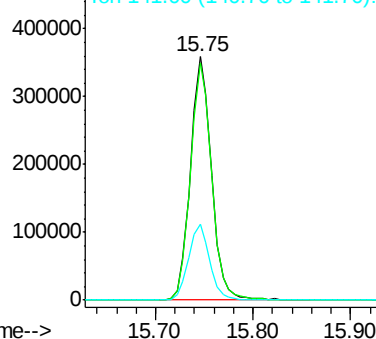
Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

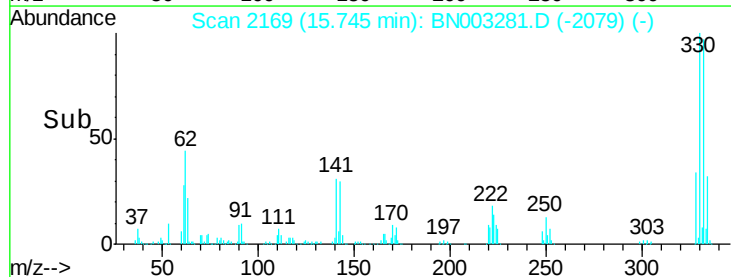
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 536930 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 98.4  | 76.6  | 114.8  |
| 141       | 31.2  | 24.5  | 36.7   |

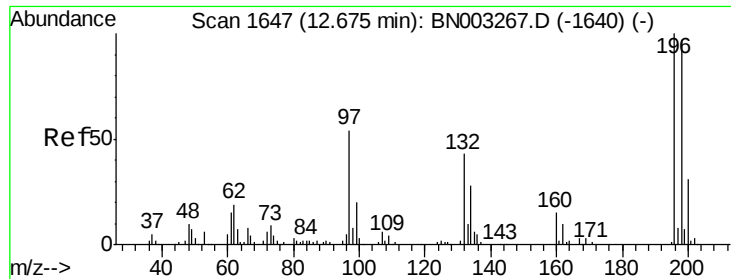


Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E



Time-->





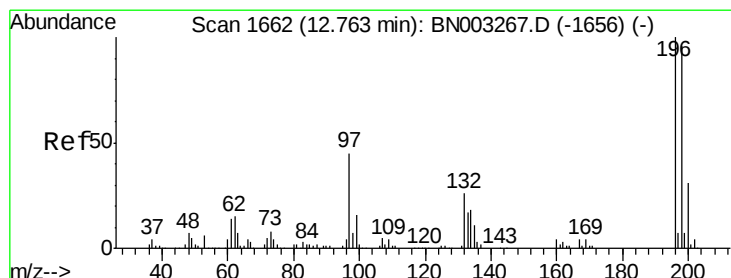
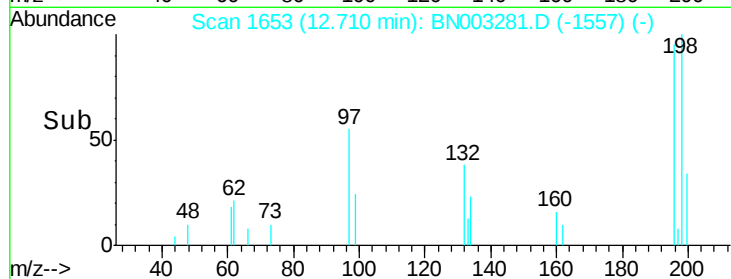
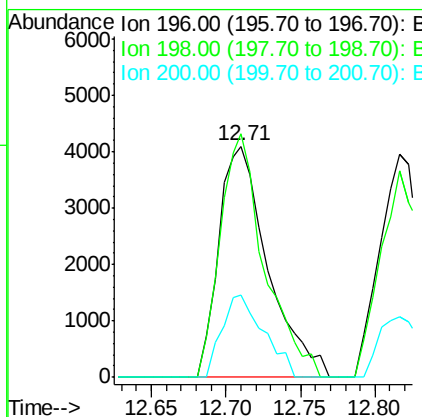
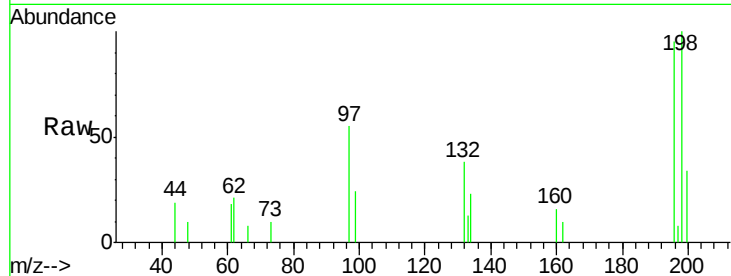
#43  
 2,4,6-Trichlorophenol  
 Concen: 1.565 ng  
 RT: 12.71 min Scan# 1653  
 Delta R.T. 0.04 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 196     | 100   | 9392 |       |       |
| 198     | 105.4 | 77.4 | 116.0 |       |
| 200     | 35.8  | 25.0 | 37.6  |       |

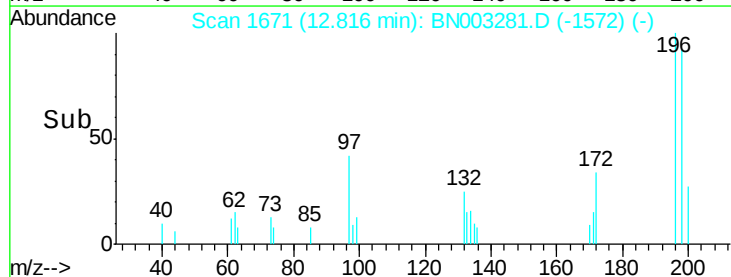
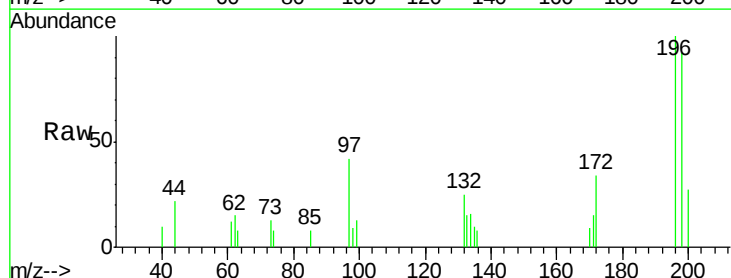
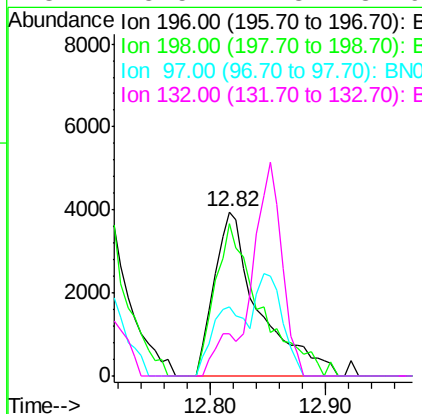
Manual Integrations  
 APPROVED

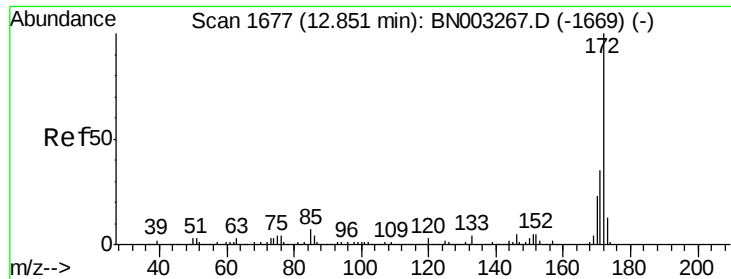
Sohil  
 10/25/2018 3:20:17 PM



#44  
 2,4,5-Trichlorophenol  
 Concen: 1.710 ng  
 RT: 12.82 min Scan# 1671  
 Delta R.T. 0.05 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 196     | 100   | 10705 |       |       |
| 198     | 92.4  | 76.8  | 115.2 |       |
| 97      | 42.0  | 35.8  | 53.8  |       |
| 132     | 25.5  | 21.3  | 31.9  |       |





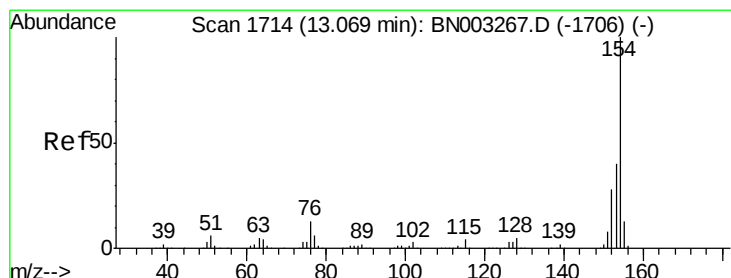
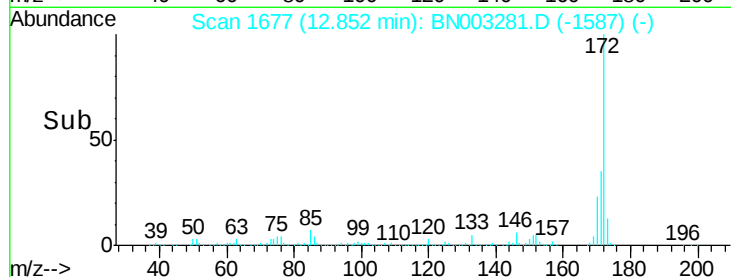
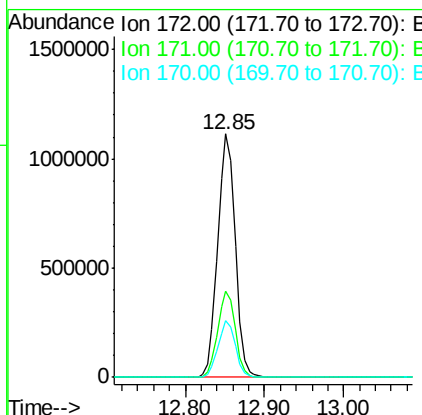
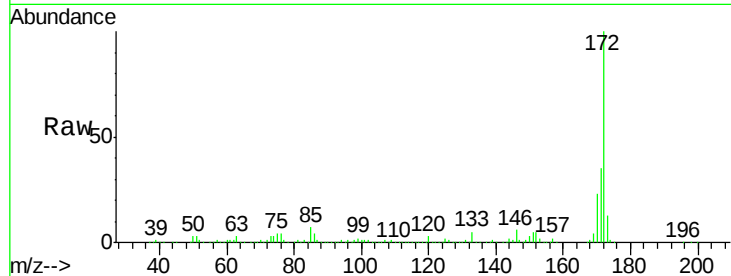
#45  
 2-Fluorobiphenyl  
 Concen: 80.741 ng  
 RT: 12.85 min Scan# 1677  
 Delta R.T. 0.00 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.3  | 28.2  | 42.4  |
| 170     | 23.2  | 18.4  | 27.6  |

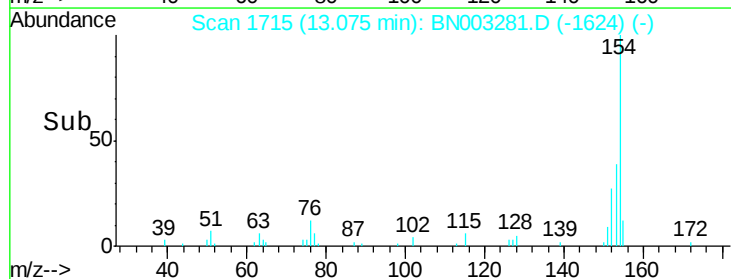
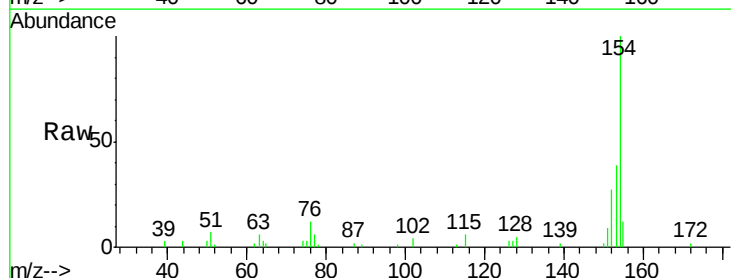
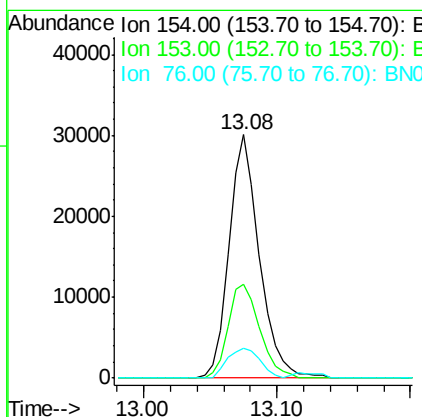
Manual Integrations  
 APPROVED

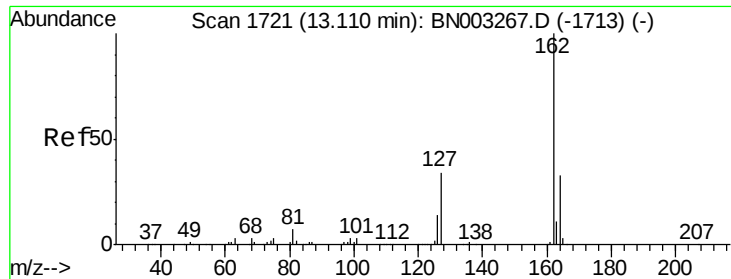
Sohil  
 10/25/2018 3:20:17 PM



#46  
 1,1'-Biphenyl  
 Concen: 1.889 ng  
 RT: 13.08 min Scan# 1715  
 Delta R.T. 0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 38.8  | 20.5  | 60.5  |
| 76      | 12.1  | 0.0   | 33.3  |





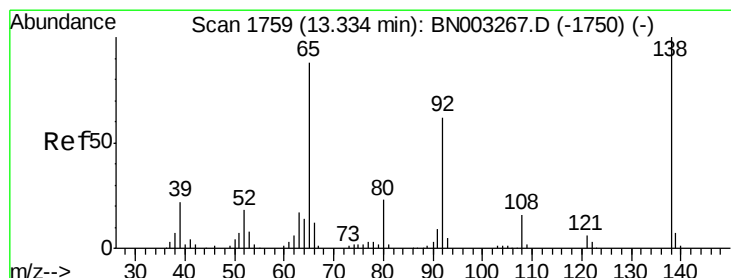
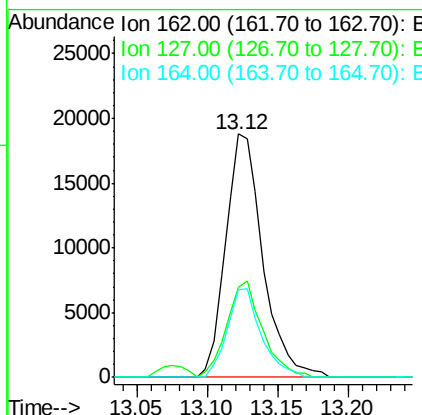
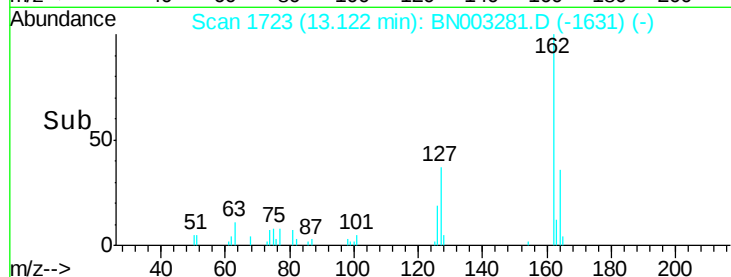
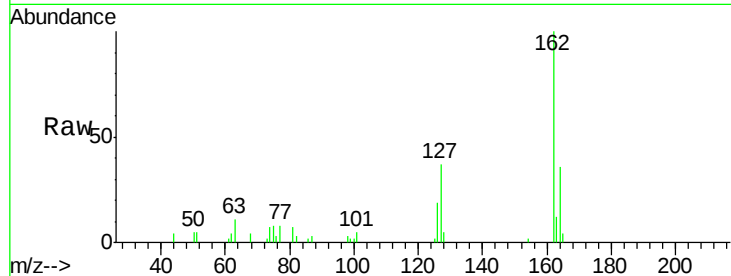
#47  
2-Chloronaphthalene  
Concen: 1.848 ng  
RT: 13.12 min Scan# 1723  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 36.9  | 29.8  | 44.6  |
| 164     | 36.0  | 26.3  | 39.5  |

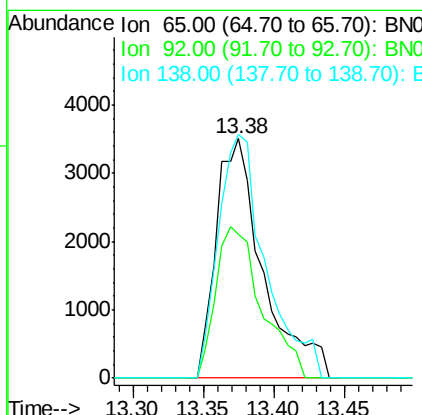
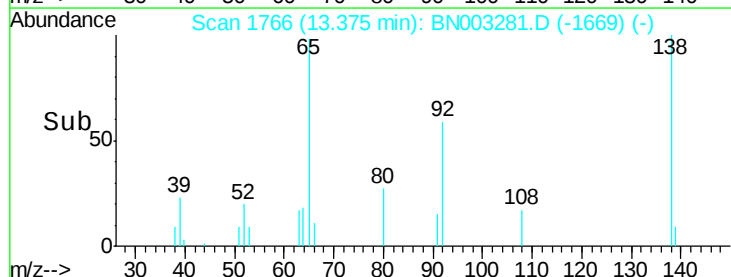
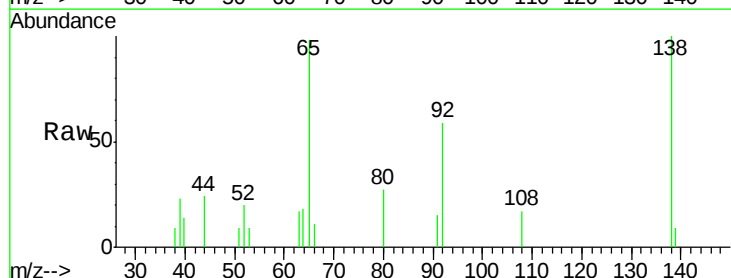
Manual Integrations  
APPROVED

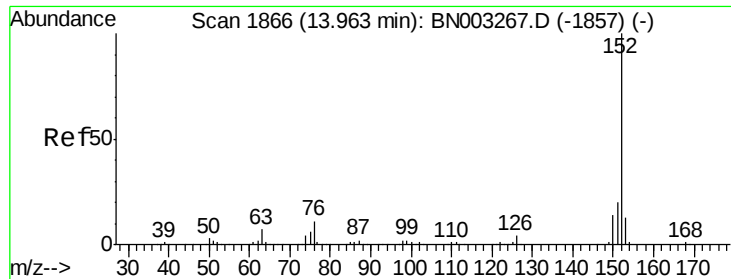
Sohil  
10/25/2018 3:20:17 PM



#48  
2-Nitroaniline  
Concen: 1.484 ng  
RT: 13.38 min Scan# 1766  
Delta R.T. 0.04 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 92      | 60.2  | 56.1  | 84.1  |
| 138     | 101.8 | 90.6  | 136.0 |





#49

Acenaphthylene

Concen: 2.049 ng

RT: 13.97 min Scan# 1867

Delta R.T. 0.01 min

Lab File: BN003281.D

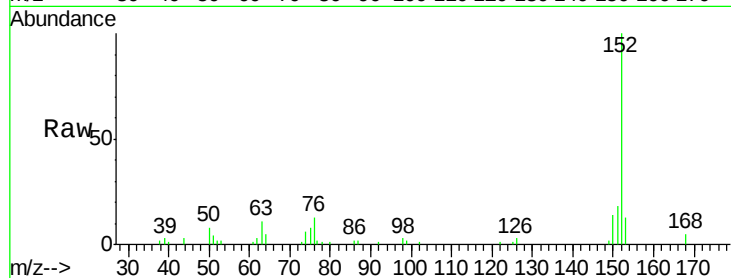
Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

ClientSampleId :

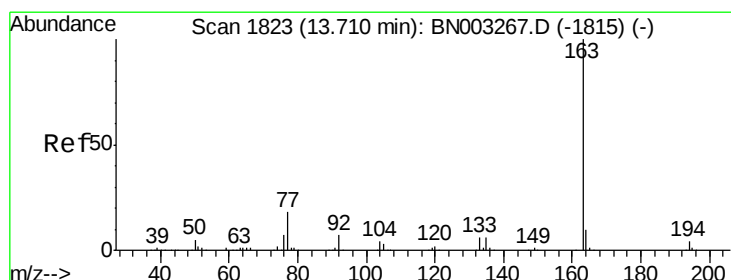
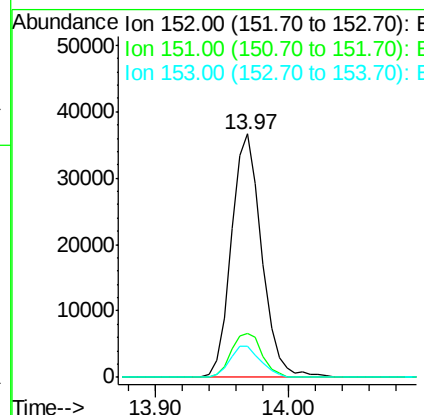
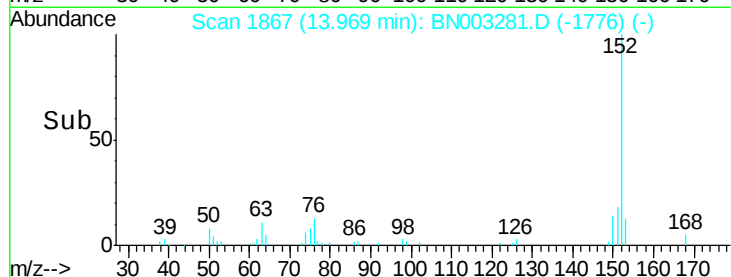
MDL-MDL-SOIL-03-QT4-2018



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 18.1  | 15.8  | 23.6  |
| 153     | 12.6  | 10.3  | 15.5  |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM



#50

Dimethylphthalate

Concen: 2.026 ng

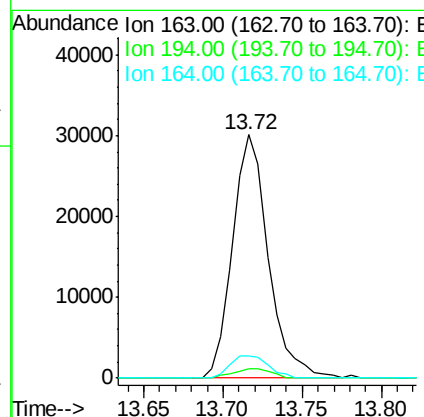
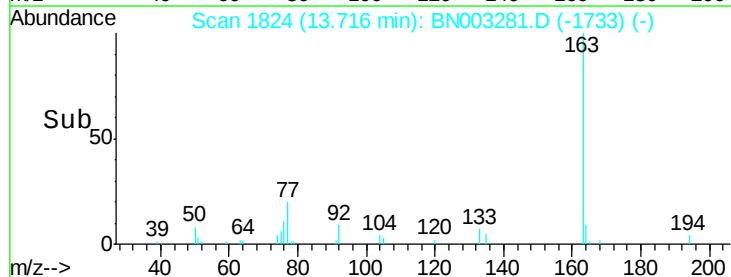
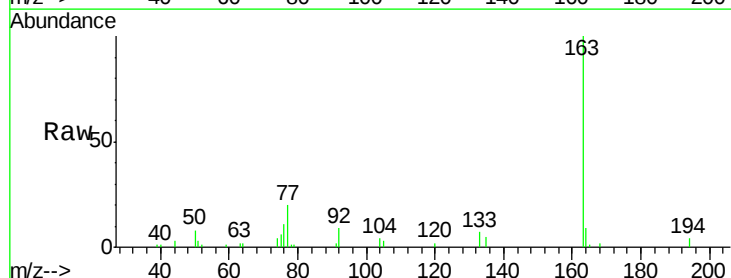
RT: 13.72 min Scan# 1824

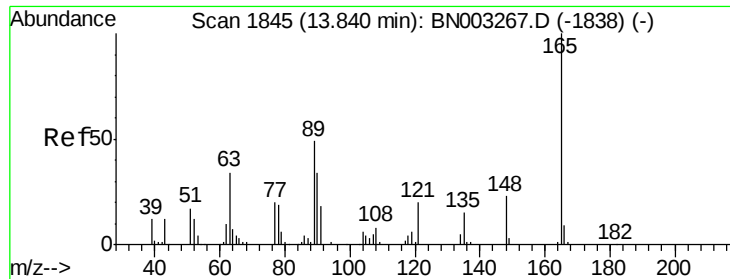
Delta R.T. 0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.9   | 3.4   | 5.2   |
| 164     | 9.4   | 7.9   | 11.9  |





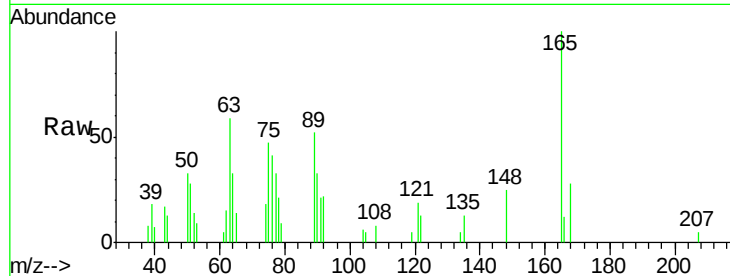
#51  
 2,6-Dinitrotoluene  
 Concen: 1.727 ng  
 RT: 13.85 min Scan# 1847  
 Delta R.T. 0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

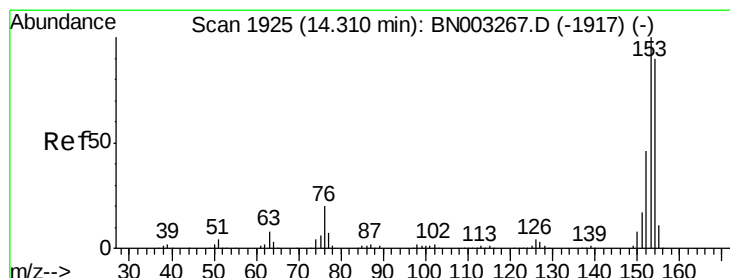
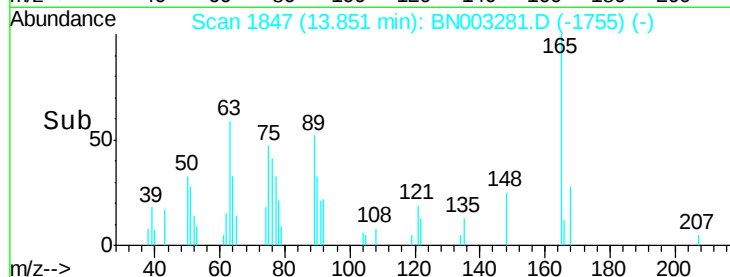
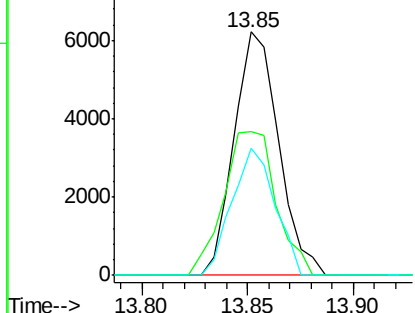
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 59.0  | 39.2  | 58.8# |
| 89      | 52.2  | 38.9  | 58.3  |

Manual Integrations  
 APPROVED

Sohil  
 10/25/2018 3:20:17 PM



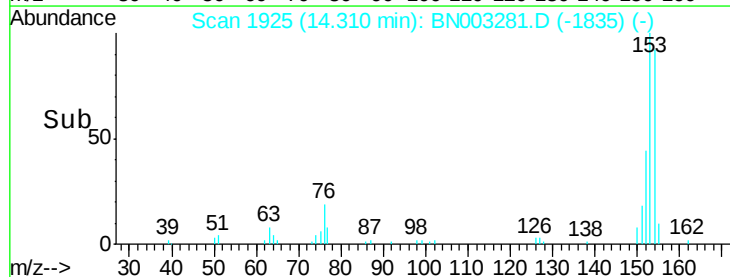
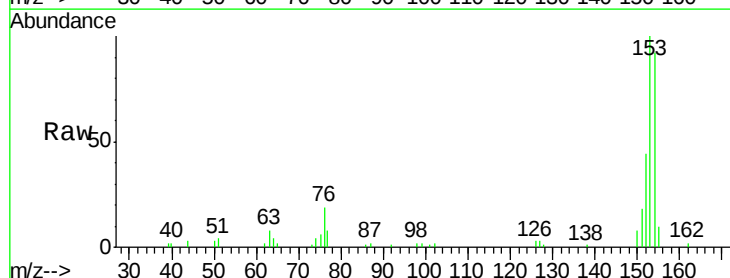
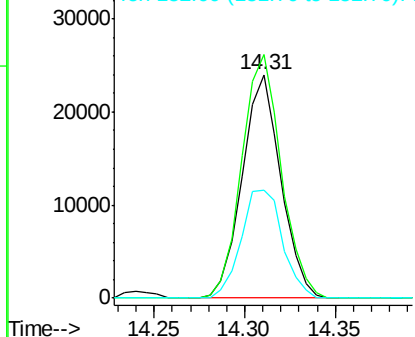
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BNO  
 Ion 89.00 (88.70 to 89.70): BNO

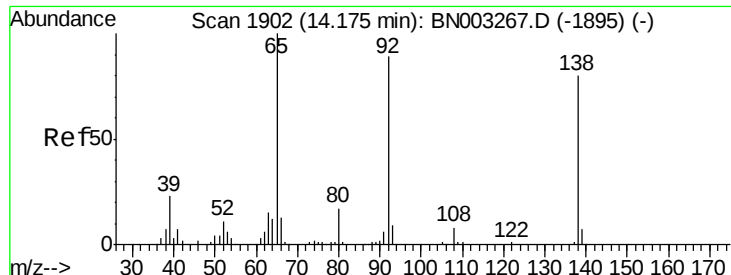


#52  
 Acenaphthene  
 Concen: 2.057 ng  
 RT: 14.31 min Scan# 1925  
 Delta R.T. 0.00 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 109.0 | 89.3  | 133.9 |
| 152     | 48.2  | 41.2  | 61.8  |

Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 152.00 (151.70 to 152.70): E





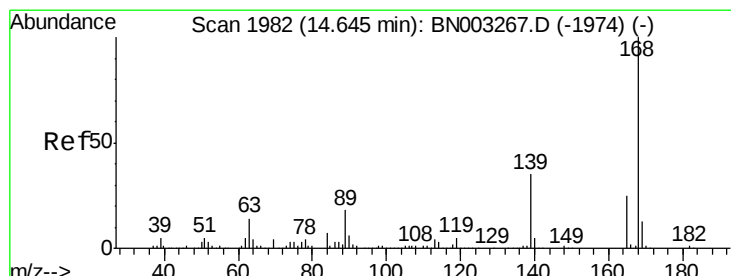
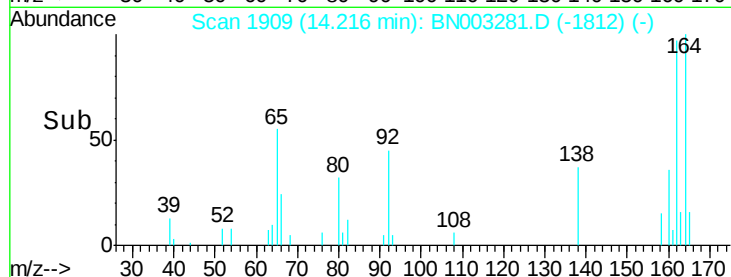
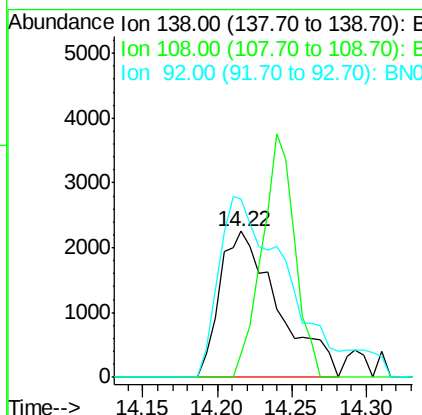
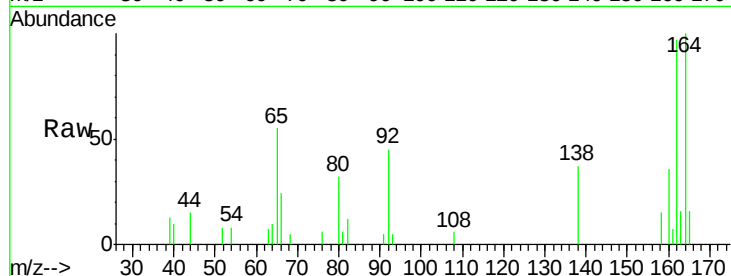
#53  
 3-Nitroaniline  
 Concen: 1.090 ng  
 RT: 14.22 min Scan# 1909  
 Delta R.T. 0.04 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 108     | 16.0  | 8.4   | 12.6  |
| 92      | 122.6 | 89.6  | 134.4 |

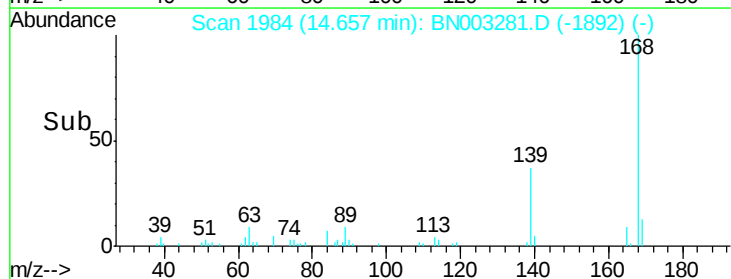
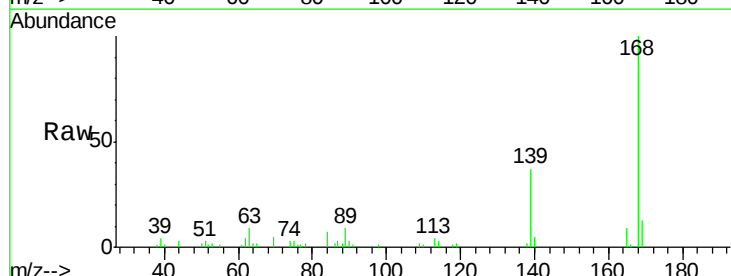
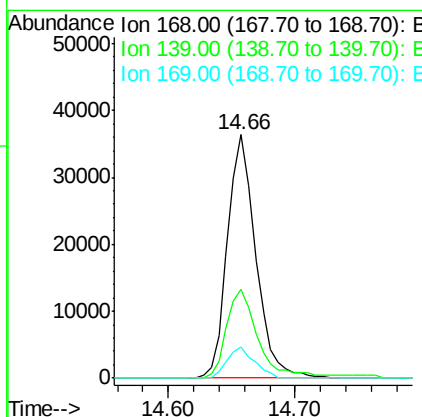
Manual Integrations  
 APPROVED

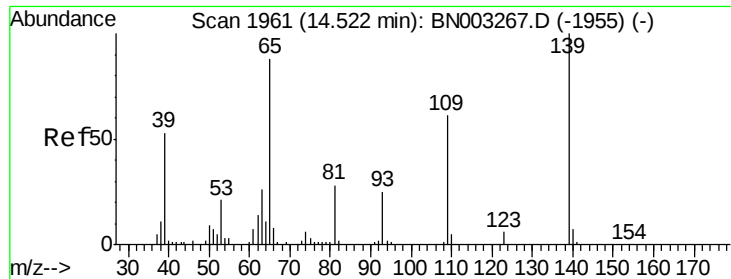
Sohil  
 10/25/2018 3:20:17 PM



#55  
 Dibenzofuran  
 Concen: 2.006 ng  
 RT: 14.66 min Scan# 1984  
 Delta R.T. 0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 36.5  | 28.5  | 42.7  |
| 169     | 13.0  | 10.3  | 15.5  |





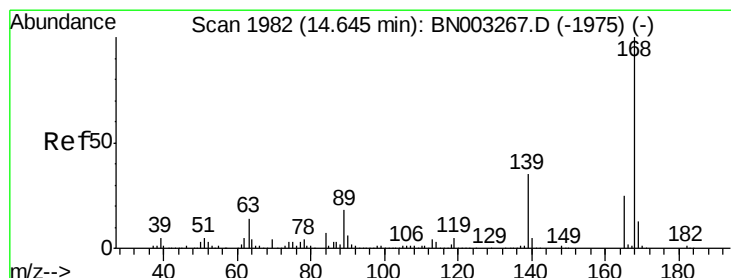
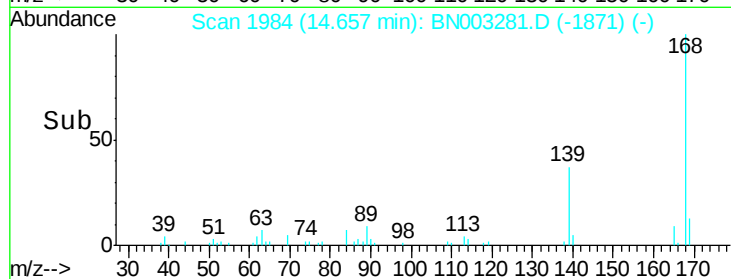
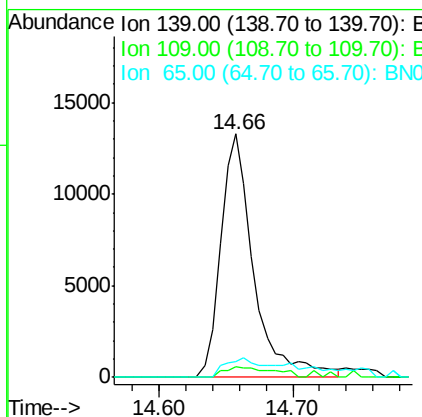
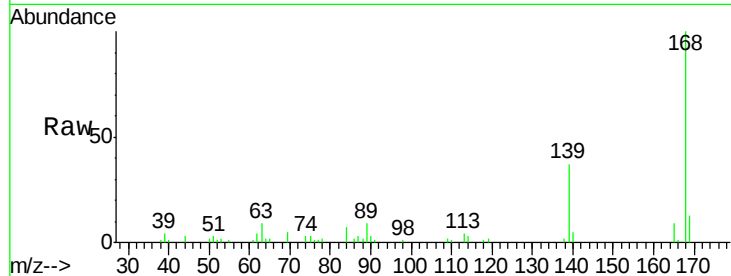
#56  
4-Nitrophenol  
Concen: 10.694 ng  
RT: 14.66 min Scan# 1984  
Delta R.T. 0.14 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Resp  | Lower  | Upper |
|---------|-------|-------|--------|-------|
| 139     | 100   | 22978 |        |       |
| 109     | 4.1   | 40.7  | 80.7#  |       |
| 65      | 6.4   | 68.0  | 108.0# |       |

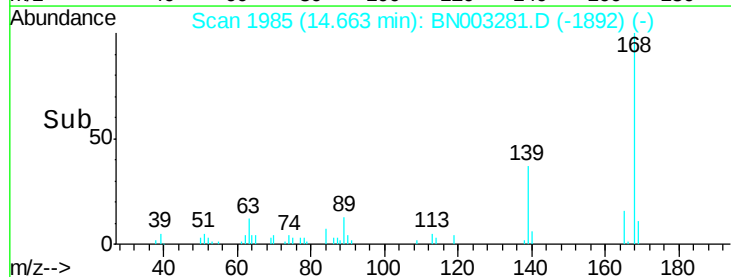
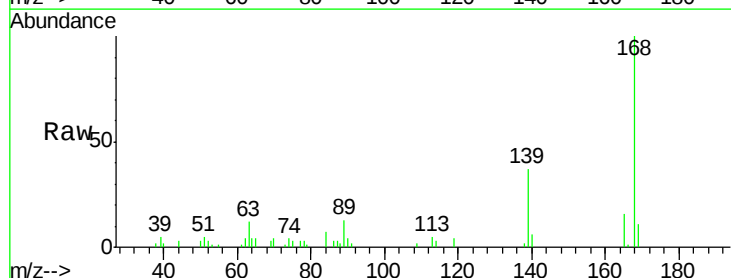
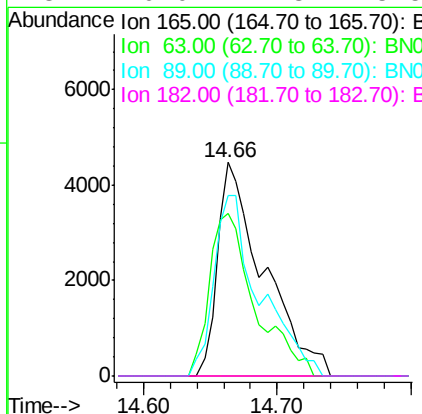
Manual Integrations  
APPROVED

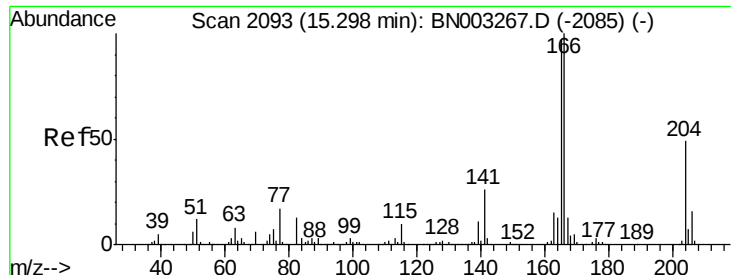
Sohil  
10/25/2018 3:20:17 PM



#57  
2,4-Dinitrotoluene  
Concen: 1.512 ng  
RT: 14.66 min Scan# 1985  
Delta R.T. 0.02 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 165     | 100   | 10802 |       |       |
| 63      | 76.2  | 45.8  | 68.6# |       |
| 89      | 84.8  | 58.7  | 88.1  |       |
| 182     | 0.0   | 2.3   | 3.5#  |       |





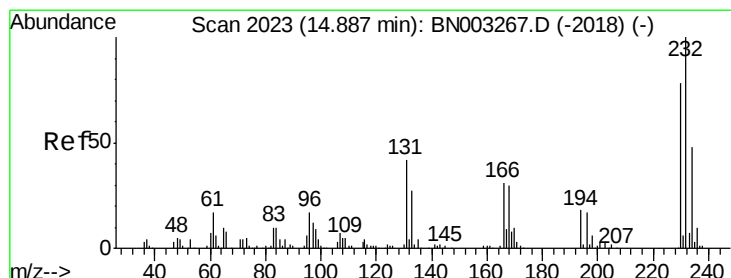
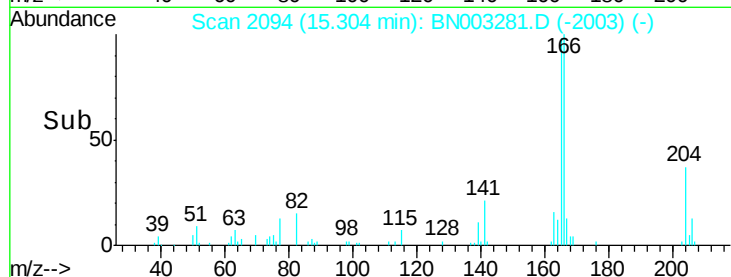
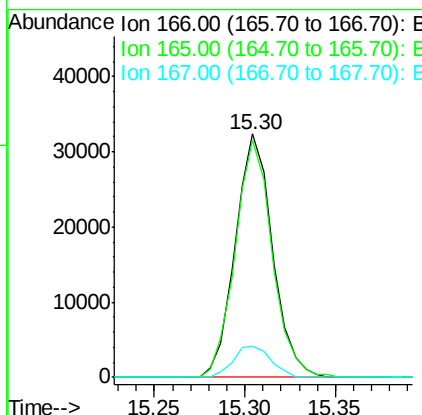
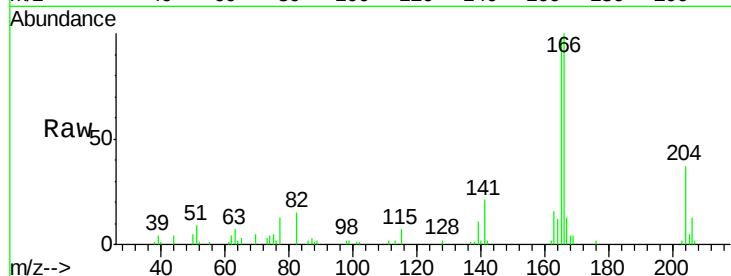
#58  
 Fluorene  
 Concen: 2.125 ng  
 RT: 15.30 min Scan# 2094  
 Delta R.T. 0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

Tgt Ion:166 Resp: 45993  
 Ion Ratio Lower Upper  
 166 100  
 165 97.6 77.6 116.4  
 167 12.6 10.6 16.0

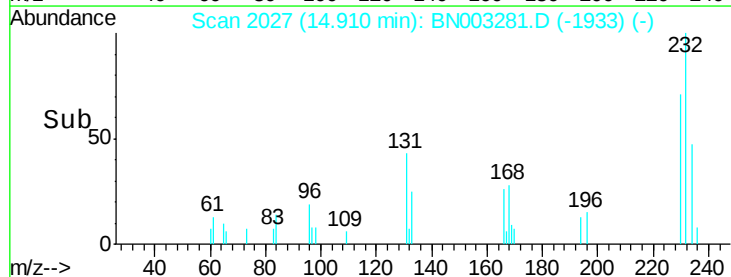
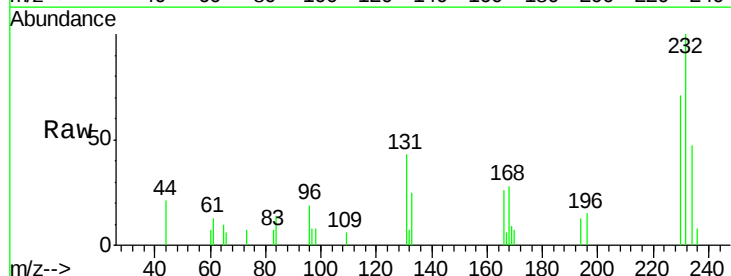
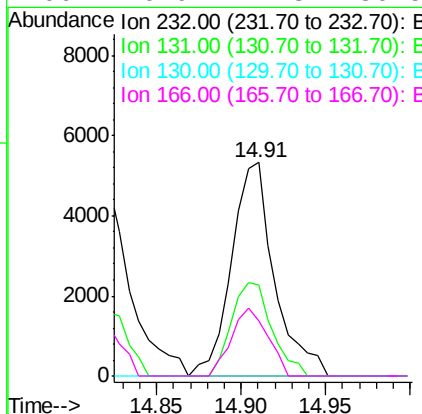
Manual Integrations  
 APPROVED

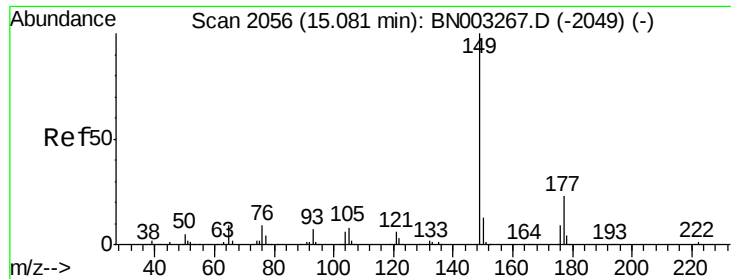
Sohil  
 10/25/2018 3:20:17 PM



#59  
 2,3,4,6-Tetrachlorophenol  
 Concen: 1.719 ng  
 RT: 14.91 min Scan# 2027  
 Delta R.T. 0.02 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

Tgt Ion:232 Resp: 9453  
 Ion Ratio Lower Upper  
 232 100  
 131 41.3 33.7 50.5  
 130 0.0 1.6 2.4#  
 166 26.9 24.3 36.5





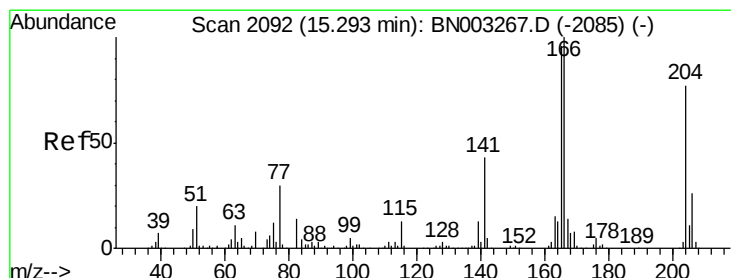
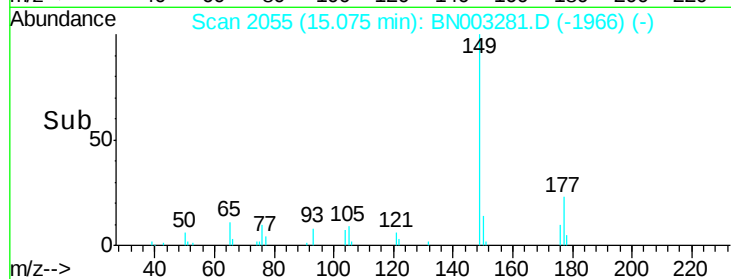
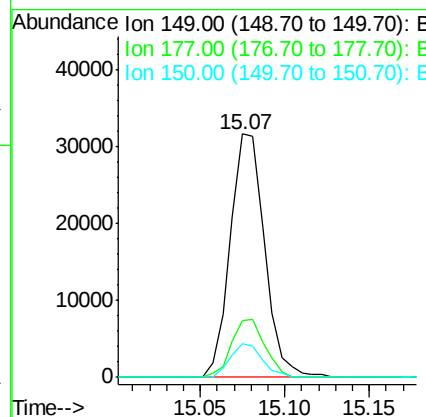
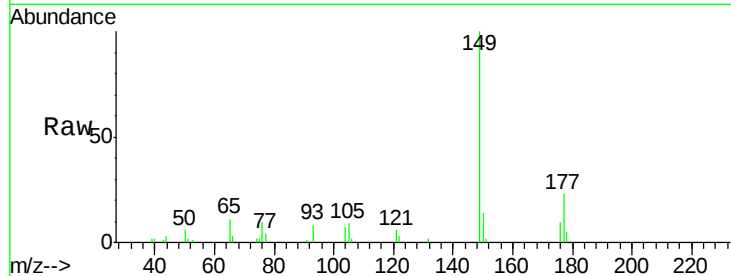
#60  
Diethylphthalate  
Concen: 1.905 ng  
RT: 15.07 min Scan# 2055  
Delta R.T. -0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

Tgt Ion:149 Resp: 44883  
Ion Ratio Lower Upper  
149 100  
177 23.5 18.6 28.0  
150 14.1 10.0 15.0

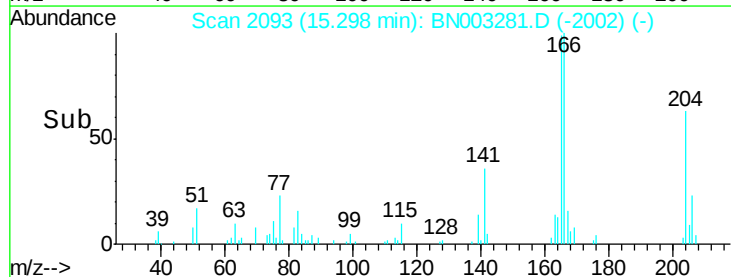
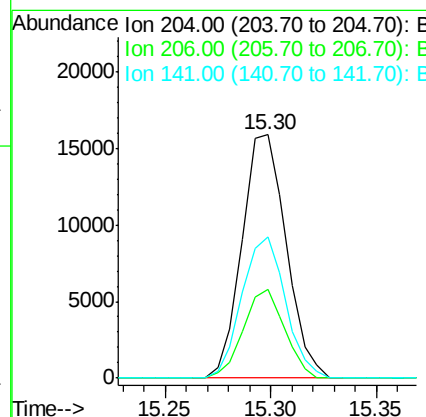
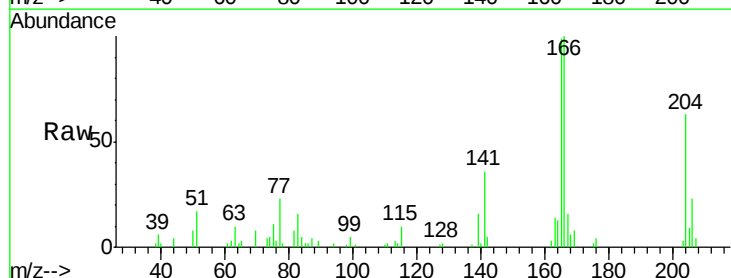
Manual Integrations  
APPROVED

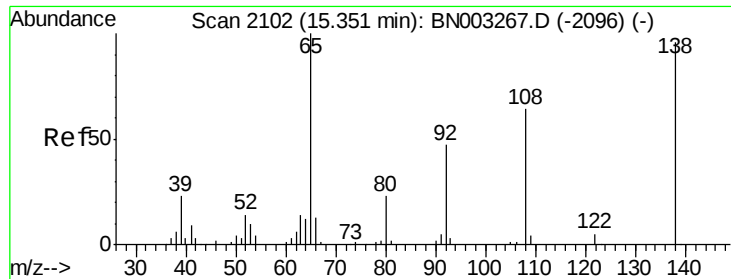
Sohil  
10/25/2018 3:20:17 PM



#61  
4-Chlorophenyl-phenylether  
Concen: 1.922 ng  
RT: 15.30 min Scan# 2093  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

Tgt Ion:204 Resp: 23111  
Ion Ratio Lower Upper  
204 100  
206 36.6 26.6 39.8  
141 58.1 44.6 67.0





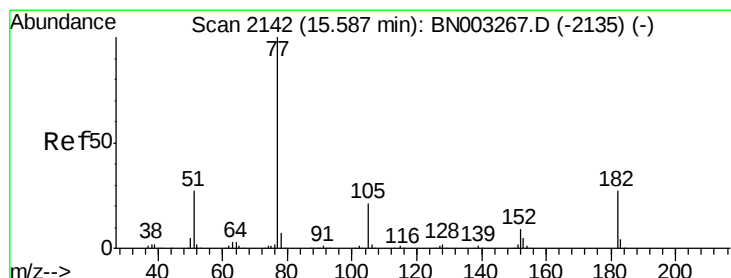
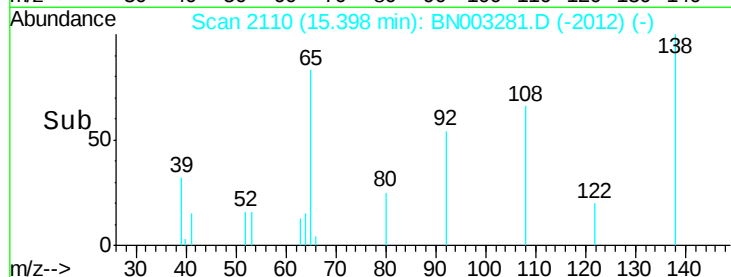
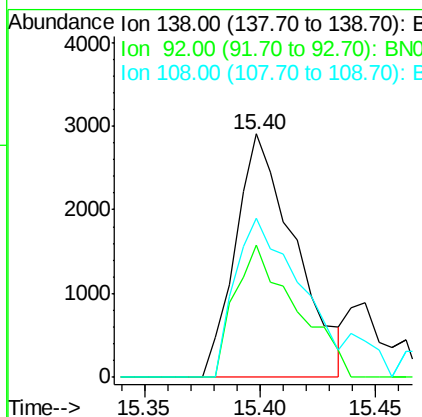
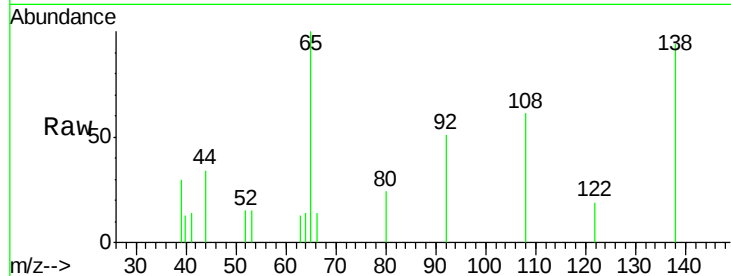
#62  
4-Nitroaniline  
Concen: 0.951 ng  
RT: 15.40 min Scan# 2110  
Delta R.T. 0.05 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 92      | 54.2  | 27.9  | 67.9  |
| 108     | 65.6  | 46.3  | 86.3  |

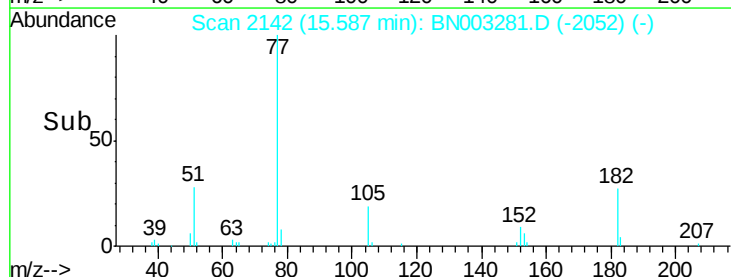
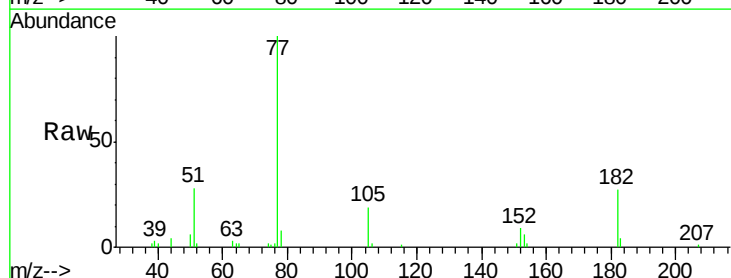
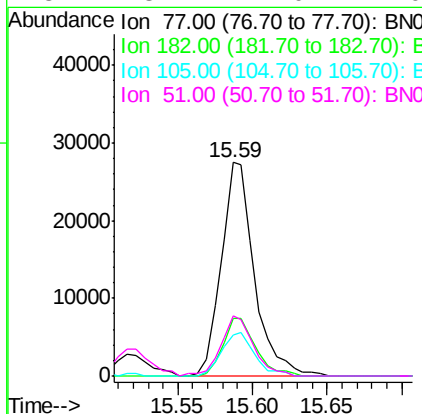
Manual Integrations  
APPROVED

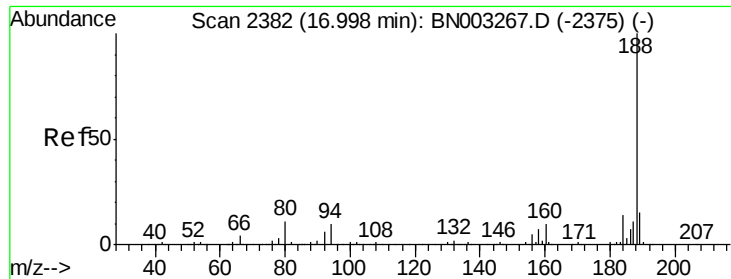
Sohil  
10/25/2018 3:20:17 PM



#63  
Azobenzene  
Concen: 1.966 ng  
RT: 15.59 min Scan# 2142  
Delta R.T. 0.00 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 26.7  | 6.5   | 46.5  |
| 105     | 19.1  | 1.0   | 41.0  |
| 51      | 28.1  | 7.0   | 47.0  |





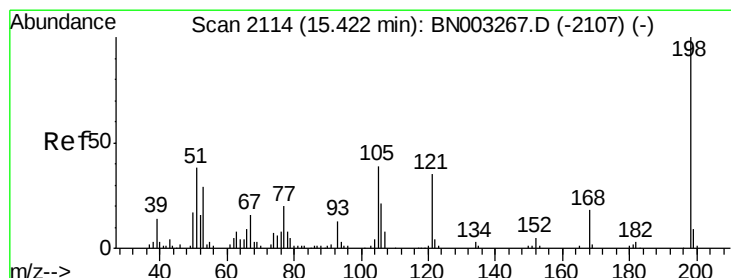
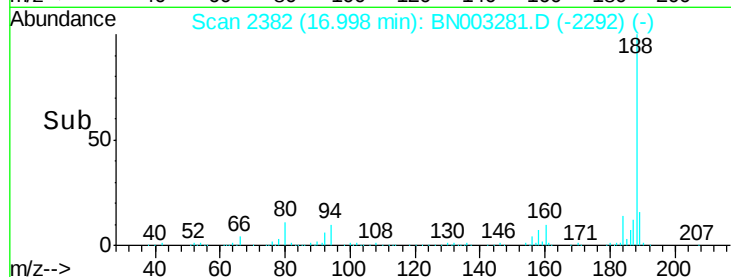
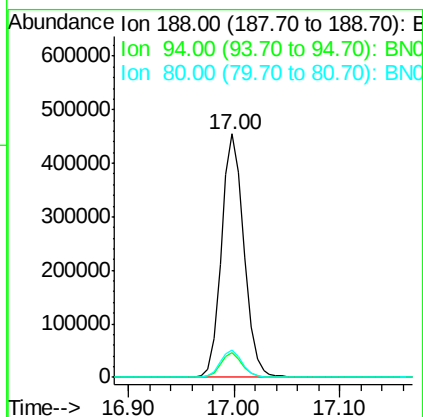
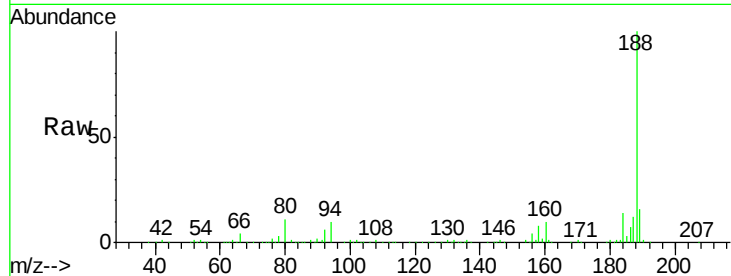
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.00 min Scan# 2382  
Delta R.T. 0.00 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 672374 |       |       |
| 94      | 10.2  |        | 8.1   | 12.1  |
| 80      | 11.3  |        | 8.6   | 13.0  |

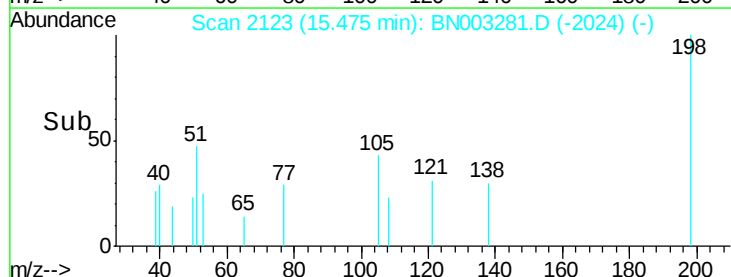
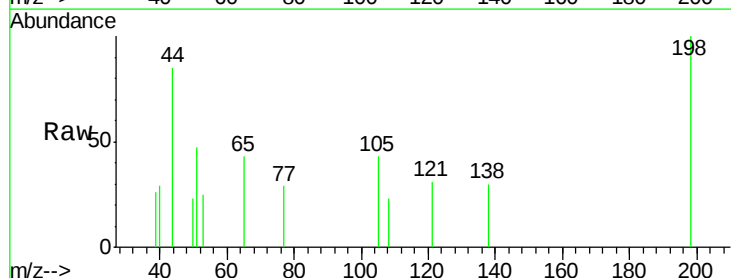
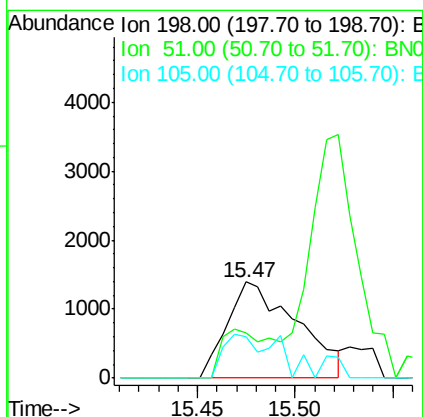
Manual Integrations  
APPROVED

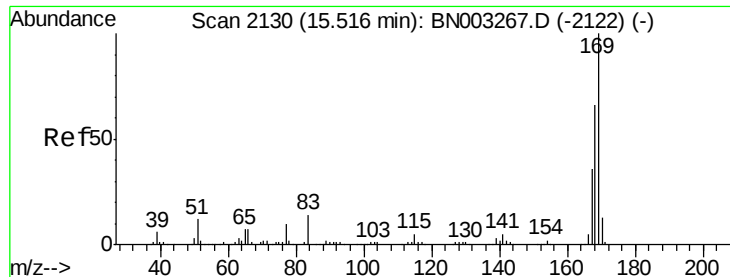
Sohil  
10/25/2018 3:20:17 PM



#65  
4,6-Dinitro-2-methylphenol  
Concen: 0.735 ng  
RT: 15.47 min Scan# 2123  
Delta R.T. 0.05 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 198     | 100   | 3447 |       |       |
| 51      | 46.6  |      | 19.2  | 59.2  |
| 105     | 43.4  |      | 18.9  | 58.9  |





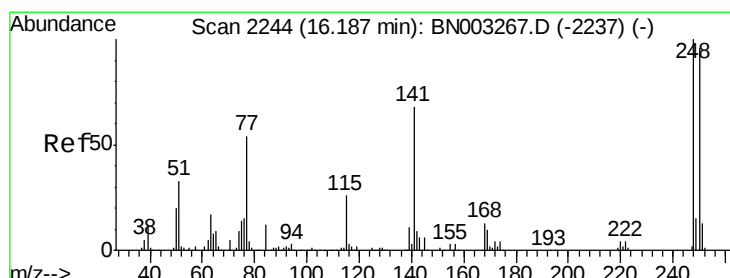
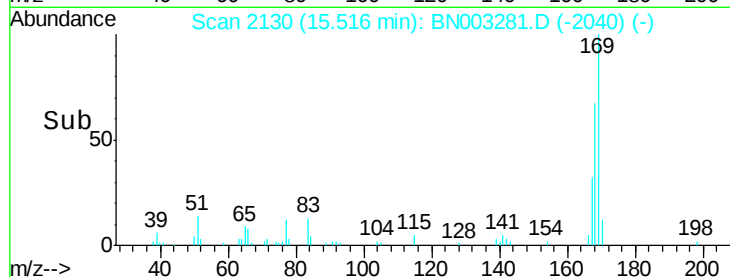
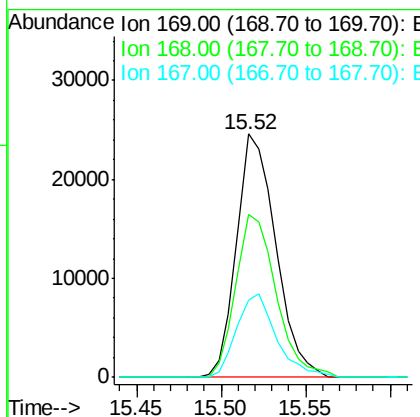
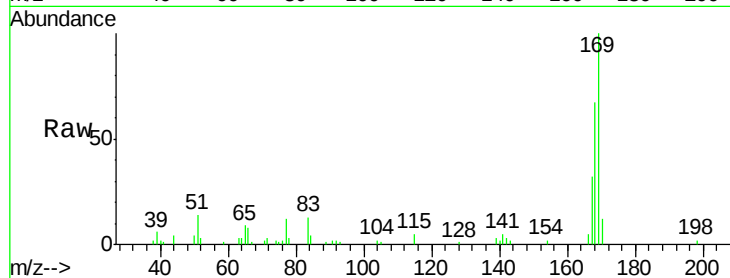
#66  
 n-Nitrosodiphenylamine  
 Concen: 1.895 ng  
 RT: 15.52 min Scan# 2130  
 Delta R.T. 0.00 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 169     | 100   | 39888 |       |       |
| 168     | 67.2  | 53.3  | 79.9  |       |
| 167     | 31.8  | 28.6  | 43.0  |       |

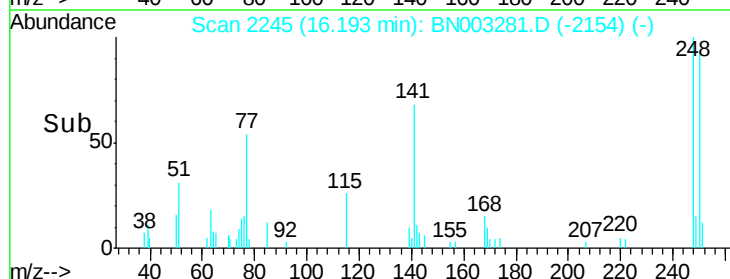
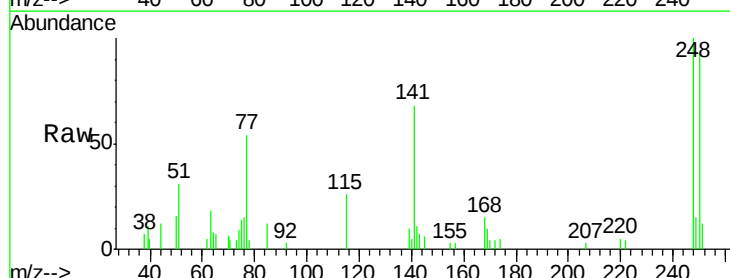
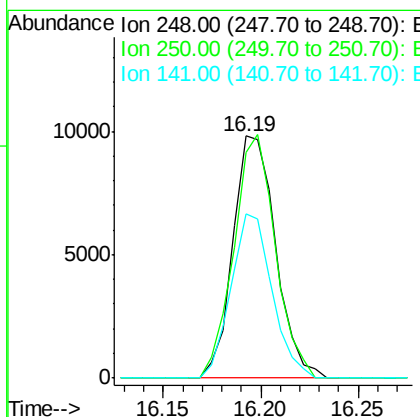
Manual Integrations  
 APPROVED

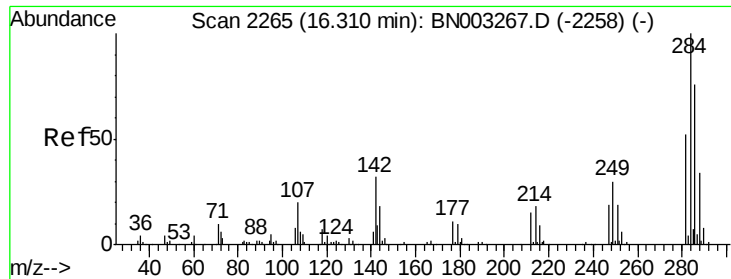
Sohil  
 10/25/2018 3:20:17 PM



#67  
 4-Bromophenyl-phenylether  
 Concen: 1.964 ng  
 RT: 16.19 min Scan# 2245  
 Delta R.T. 0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 248     | 100   | 14870 |       |       |
| 250     | 93.0  | 76.4  | 114.6 |       |
| 141     | 67.8  | 54.2  | 81.4  |       |





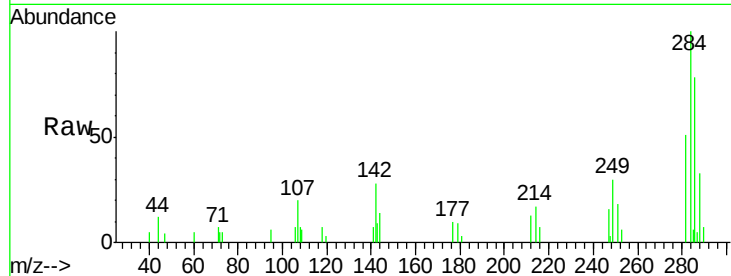
#68  
Hexachlorobenzene  
Concen: 1.947 ng  
RT: 16.32 min Scan# 2267  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

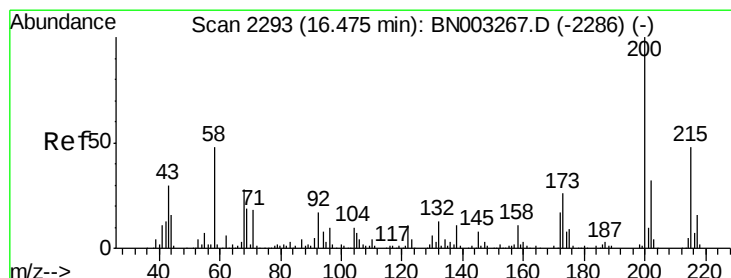
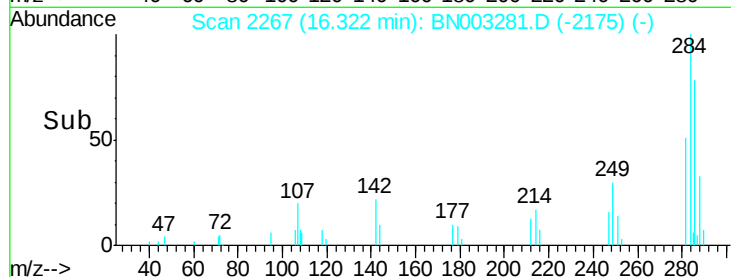
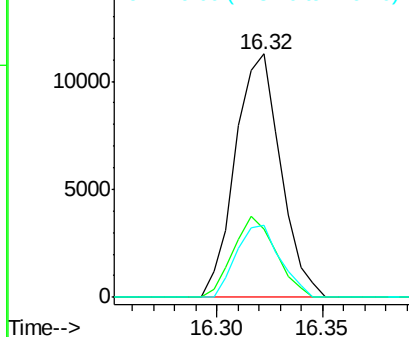
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 284     | 100   | 16795 |       |       |
| 142     | 27.8  | 25.6  | 38.4  |       |
| 249     | 29.8  | 23.6  | 35.4  |       |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM

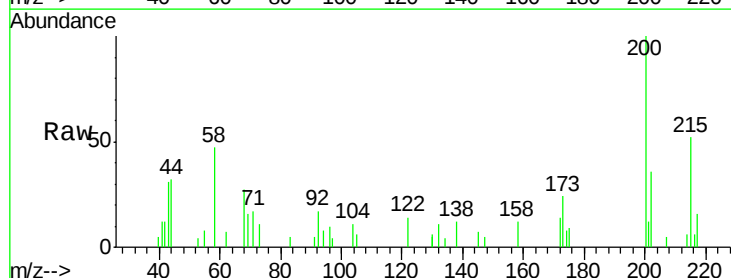


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

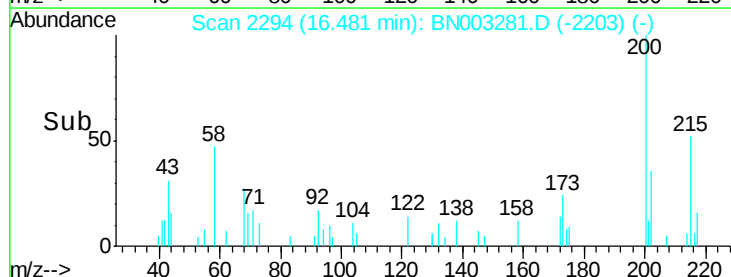
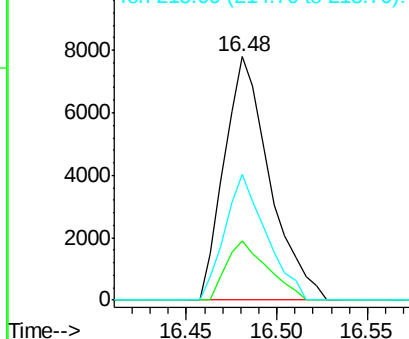


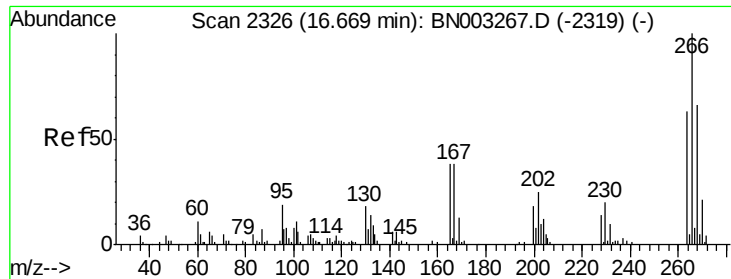
#69  
Atrazine  
Concen: 1.820 ng  
RT: 16.48 min Scan# 2294  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 200     | 100   | 13576 |       |       |
| 173     | 24.5  | 6.3   | 46.3  |       |
| 215     | 51.6  | 27.6  | 67.6  |       |



Abundance Ion 200.00 (199.70 to 200.70): E  
Ion 173.00 (172.70 to 173.70): E  
Ion 215.00 (214.70 to 215.70): E





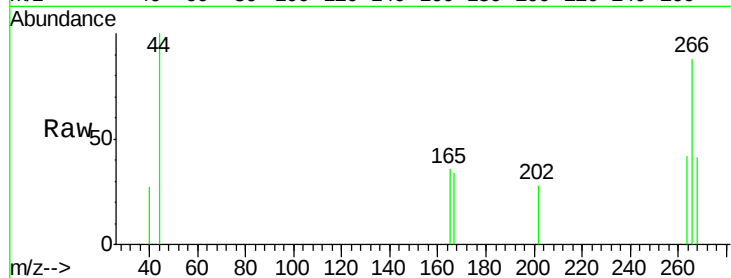
#70  
 Pentachlorophenol  
 Concen: 7.015 ng  
 RT: 16.71 min Scan# 2333  
 Delta R.T. 0.04 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

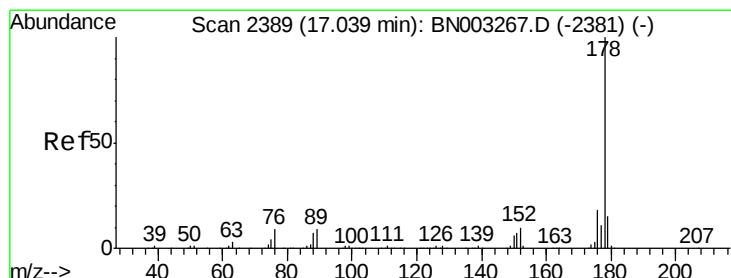
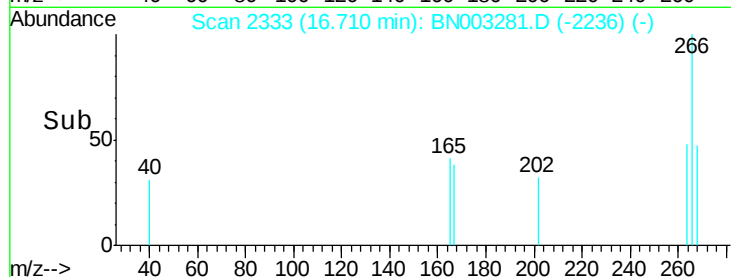
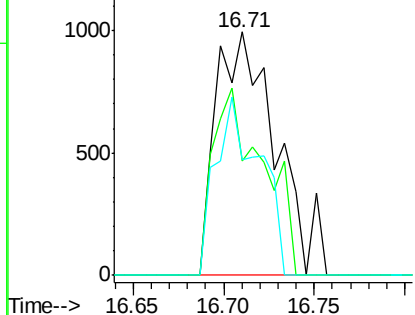
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 47.0  | 52.5  | 78.7# |
| 264     | 47.6  | 50.3  | 75.5# |

Manual Integrations  
 APPROVED

Sohil  
 10/25/2018 3:20:17 PM

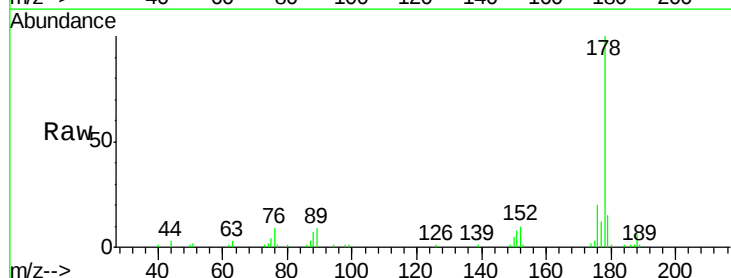


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

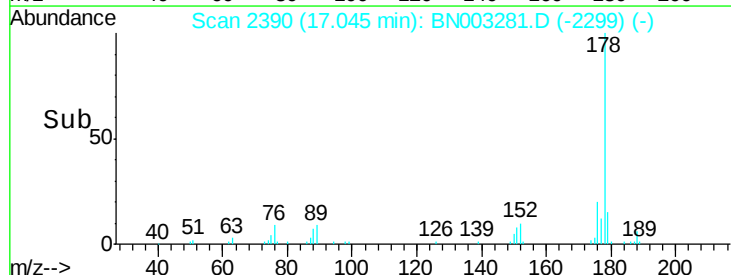
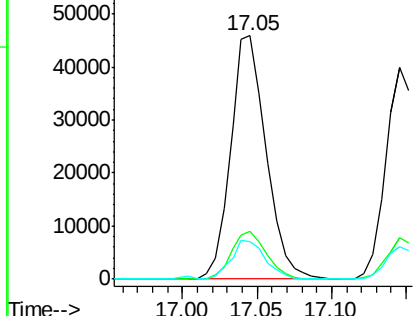


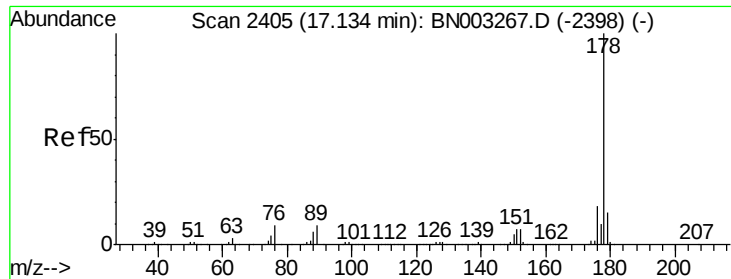
#71  
 Phenanthrene  
 Concen: 2.148 ng  
 RT: 17.05 min Scan# 2390  
 Delta R.T. 0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 14.4  | 21.6  |
| 179     | 15.3  | 12.2  | 18.4  |



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





#72

Anthracene

Concen: 2.111 ng

RT: 17.15 min Scan# 2407

Delta R.T. 0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

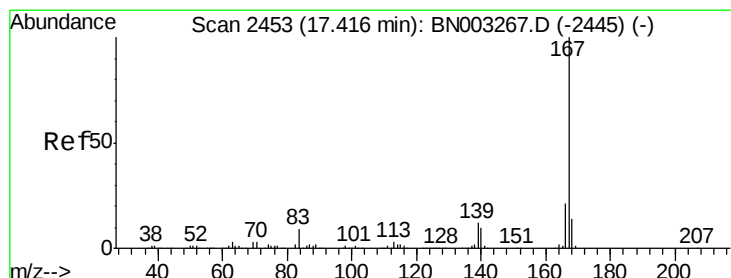
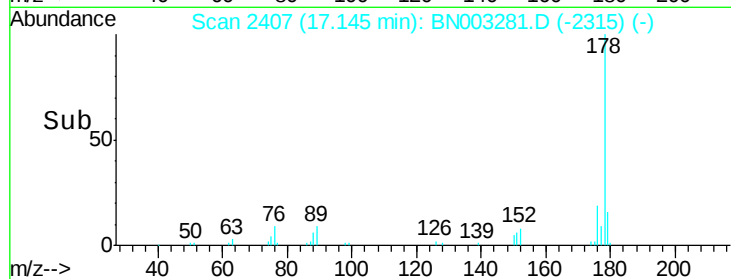
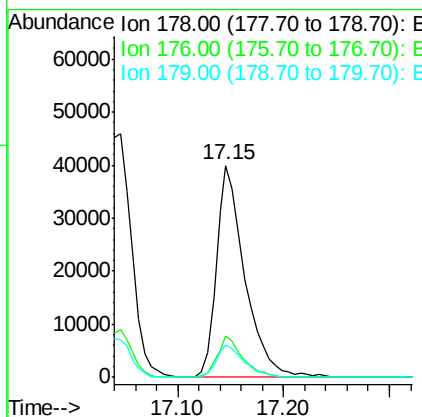
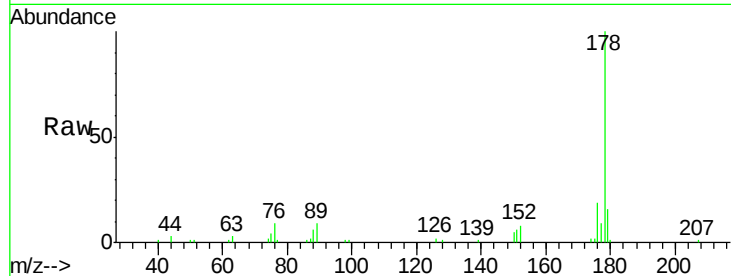
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.3  | 14.3  | 21.5  |
| 179     | 15.5  | 12.1  | 18.1  |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM



#73

Carbazole

Concen: 1.821 ng

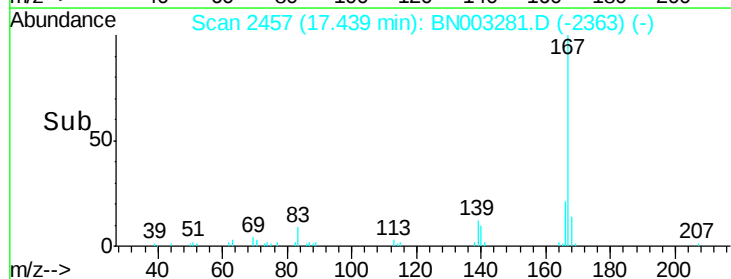
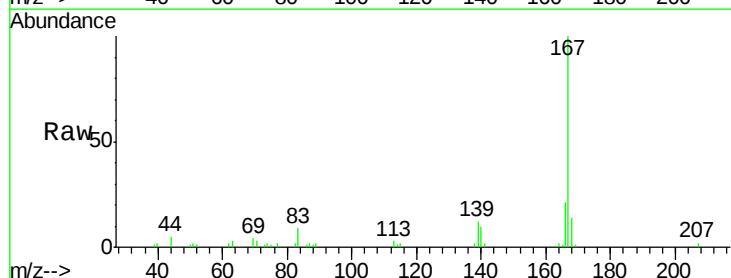
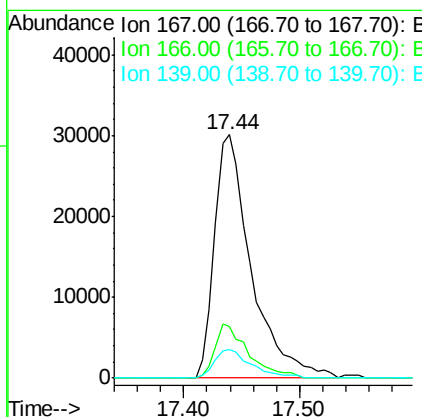
RT: 17.44 min Scan# 2457

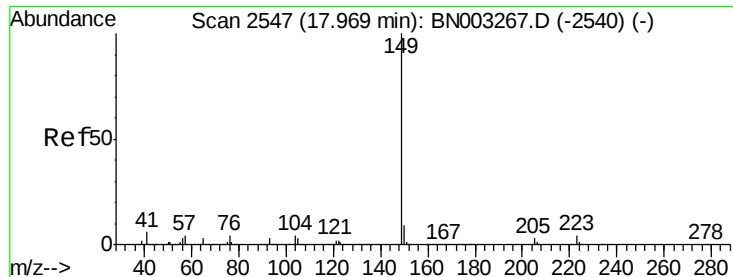
Delta R.T. 0.02 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.1  | 17.0  | 25.6  |
| 139     | 11.8  | 9.9   | 14.9  |





#74

Di-n-butylphthalate

Concen: 1.754 ng

RT: 17.97 min Scan# 2548

Delta R.T. 0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

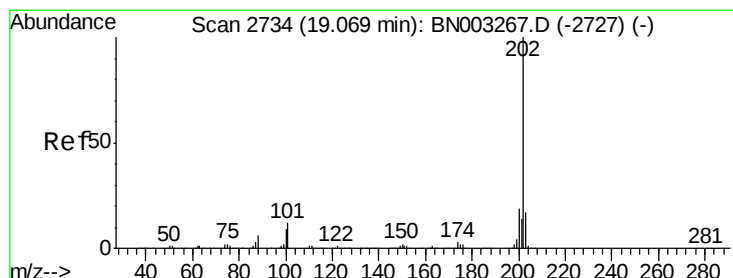
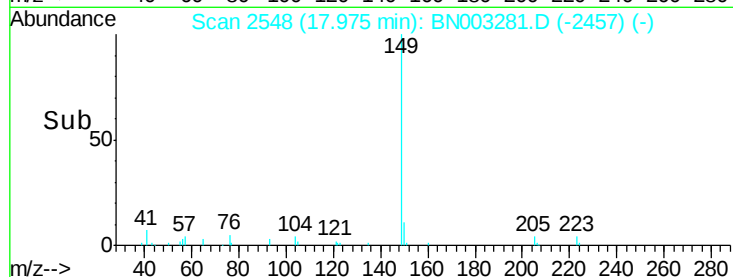
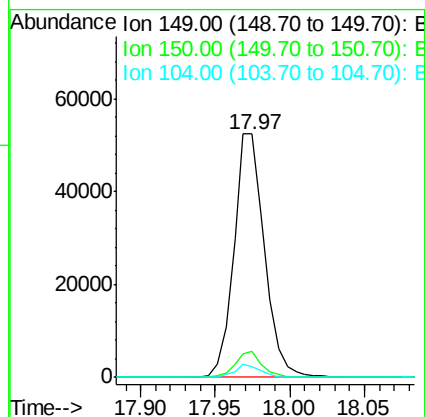
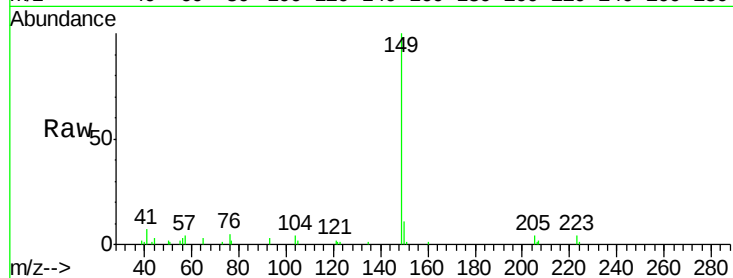
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 74723 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 150       | 10.5  | 7.2   | 10.8  |
| 104       | 4.5   | 3.6   | 5.4   |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM



#75

Fluoranthene

Concen: 2.134 ng

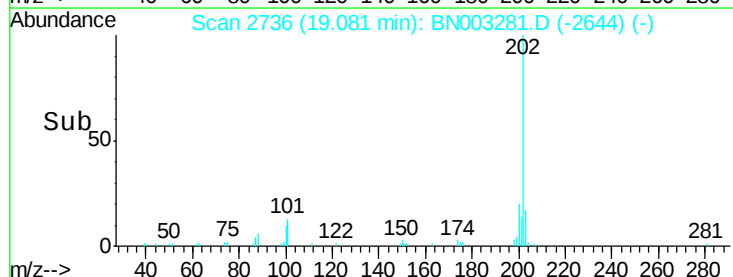
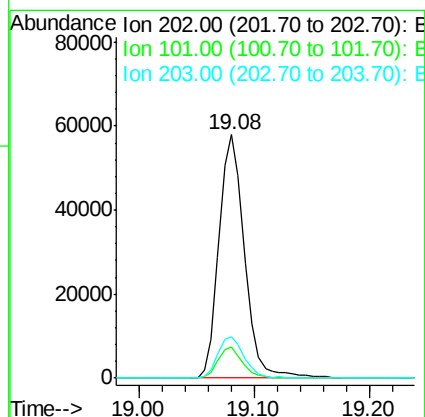
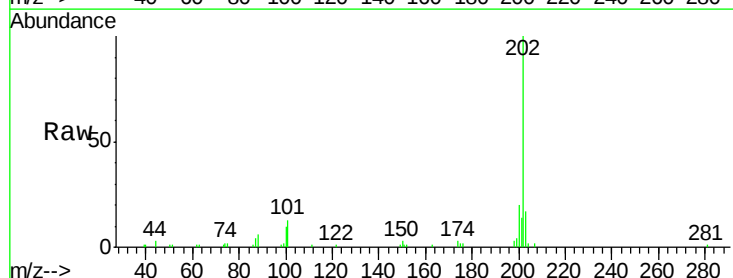
RT: 19.08 min Scan# 2736

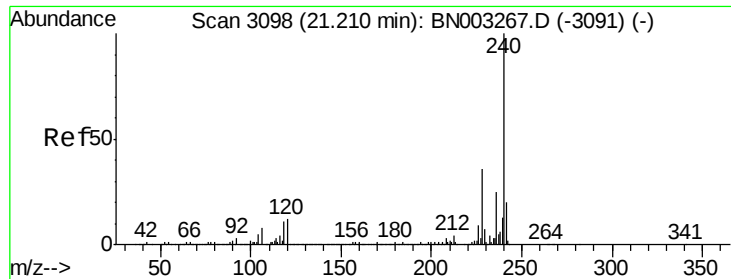
Delta R.T. 0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 88875 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.0  | 0.0   | 32.3  |
| 203       | 16.9  | 0.0   | 37.4  |





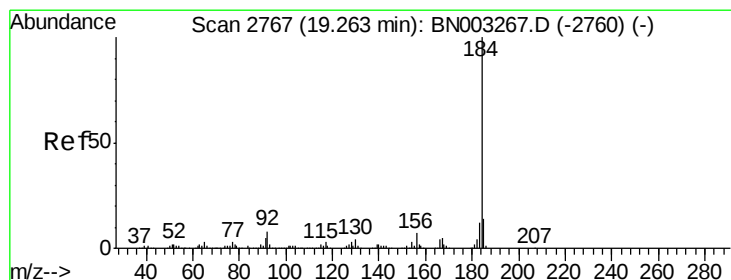
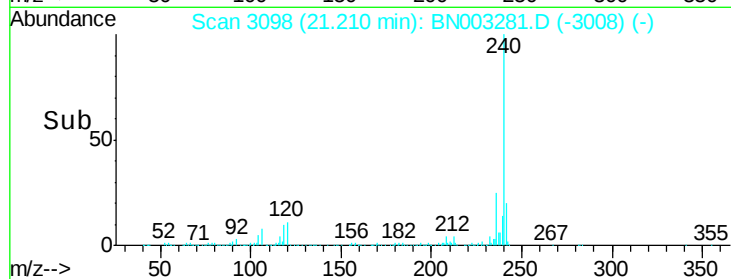
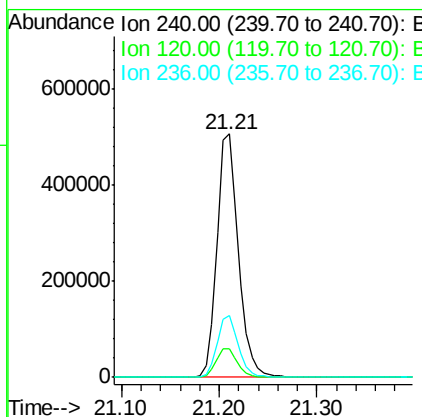
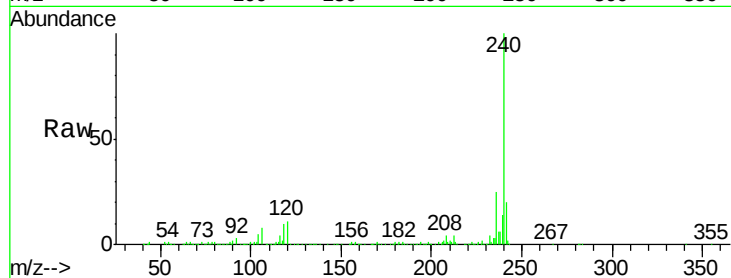
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.21 min Scan# 3098  
Delta R.T. 0.00 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

Tgt Ion:240 Resp: 771260  
Ion Ratio Lower Upper  
240 100  
120 11.5 9.4 14.0  
236 25.1 20.3 30.5

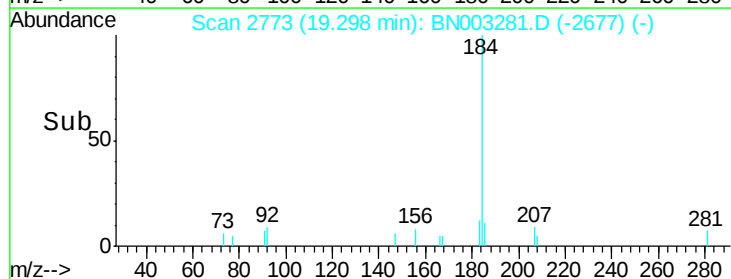
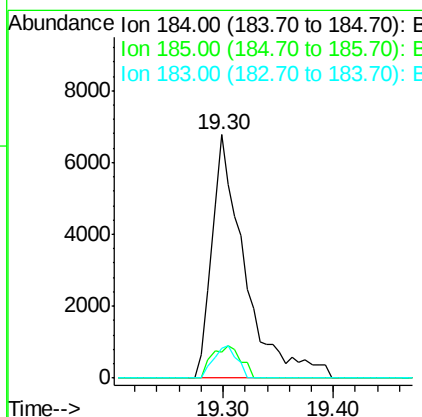
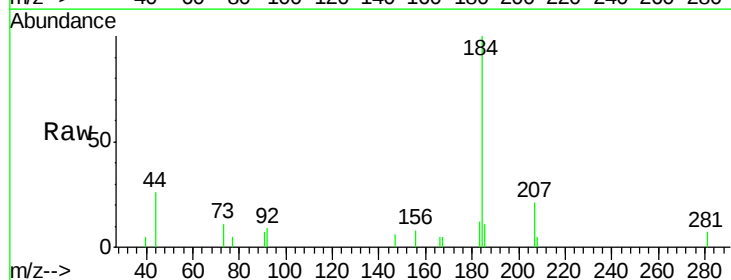
Manual Integrations  
APPROVED

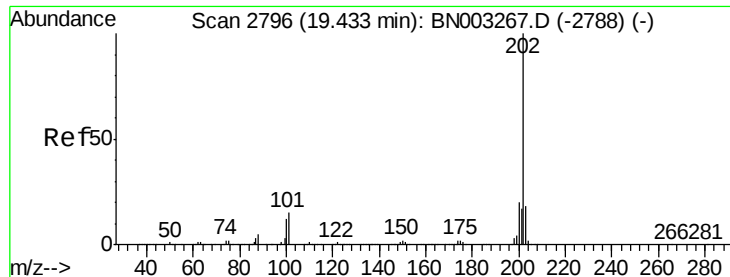
Sohil  
10/25/2018 3:20:17 PM



#77  
Benzidine  
Concen: 0.620 ng  
RT: 19.30 min Scan# 2773  
Delta R.T. 0.04 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

Tgt Ion:184 Resp: 13998  
Ion Ratio Lower Upper  
184 100  
185 10.6 11.5 17.3#  
183 12.1 9.4 14.0





#78

Pyrene

Concen: 2.011 ng

RT: 19.45 min Scan# 2798

Delta R.T. 0.01 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

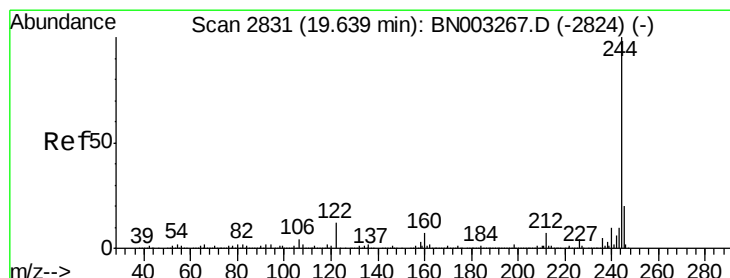
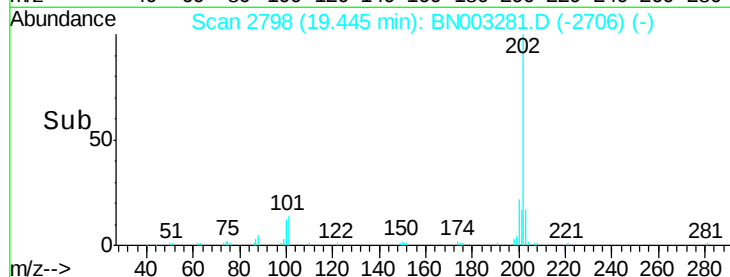
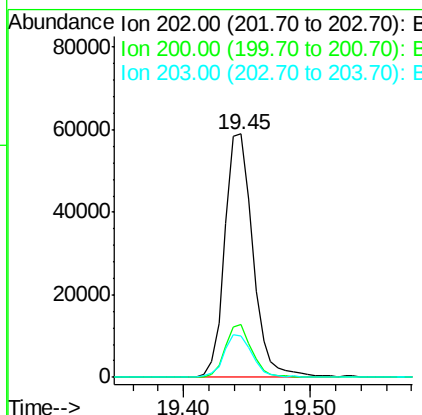
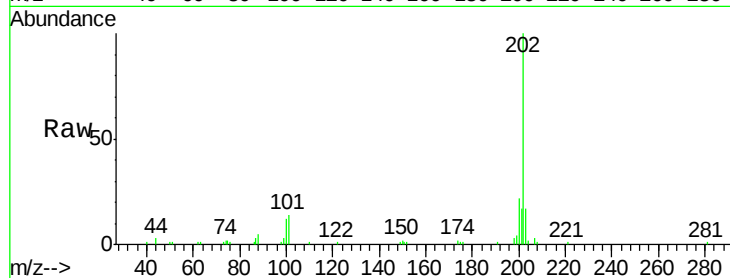
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 91157 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 22.0  | 16.2  | 24.4  |
| 203       | 16.9  | 14.3  | 21.5  |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM



#79

Terphenyl-d14

Concen: 76.703 ng

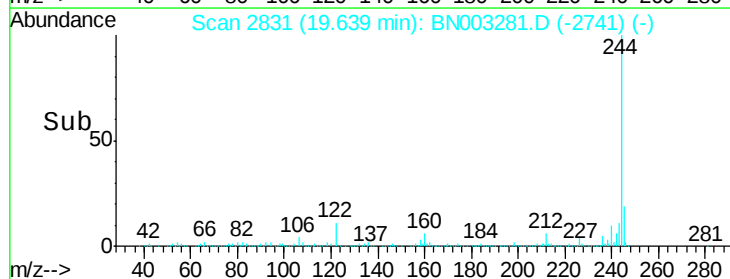
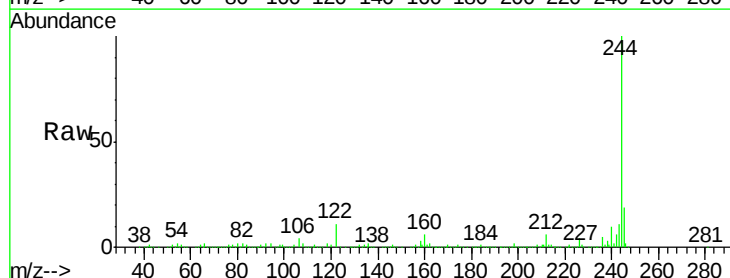
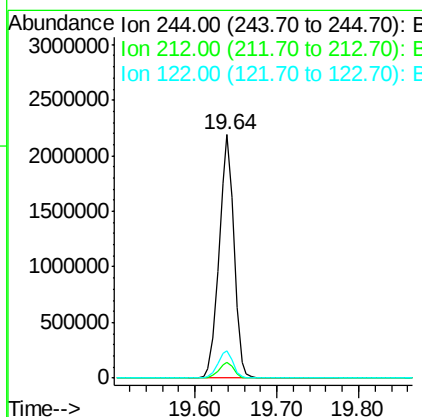
RT: 19.64 min Scan# 2831

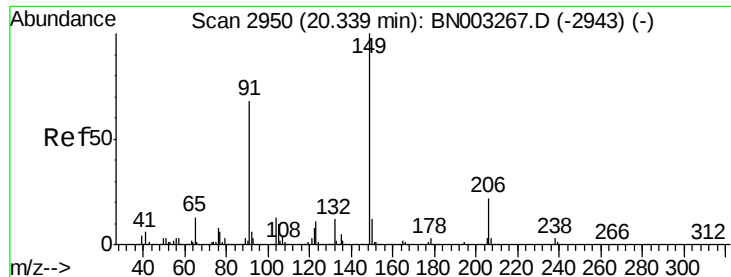
Delta R.T. 0.00 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 2766268 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 6.3   | 5.4   | 8.0     |
| 122       | 11.2  | 9.4   | 14.2    |





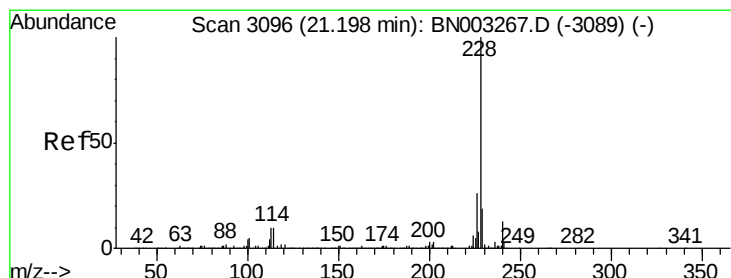
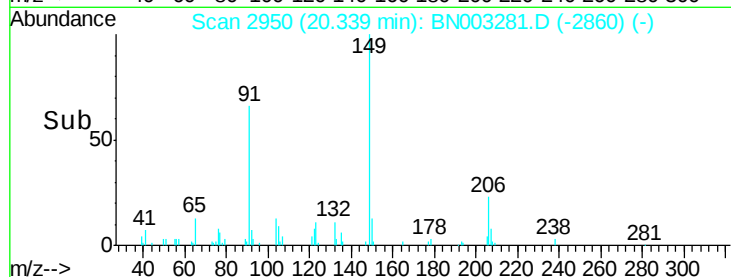
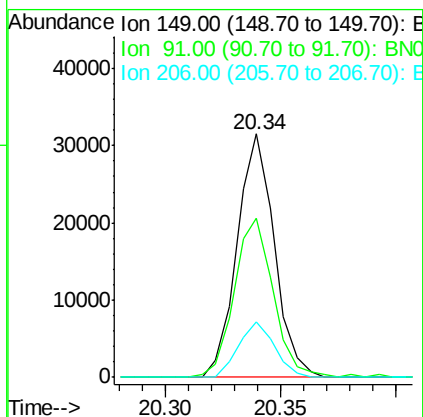
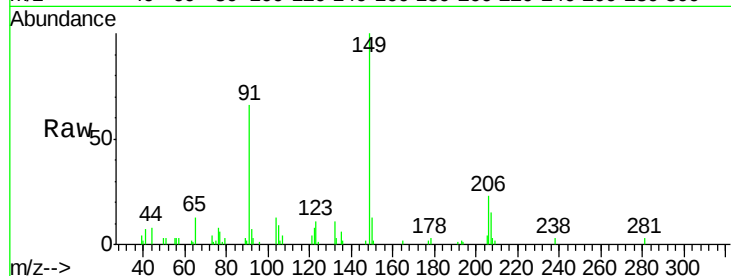
#80  
Butylbenzylphthalate  
Concen: 1.684 ng  
RT: 20.34 min Scan# 2950  
Delta R.T. 0.00 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 65.5  | 54.6  | 81.8  |
| 206     | 22.9  | 17.8  | 26.6  |

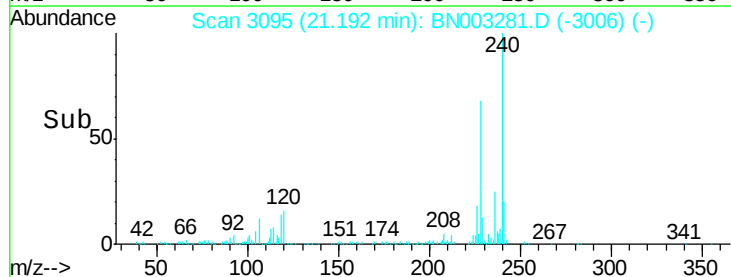
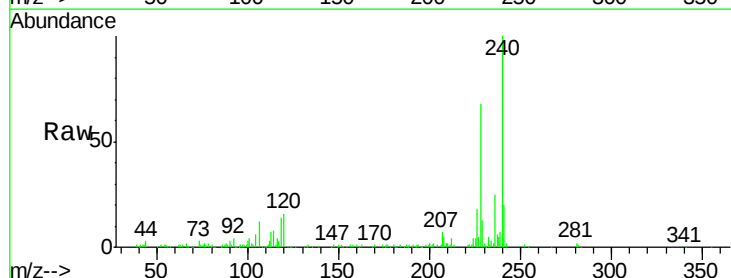
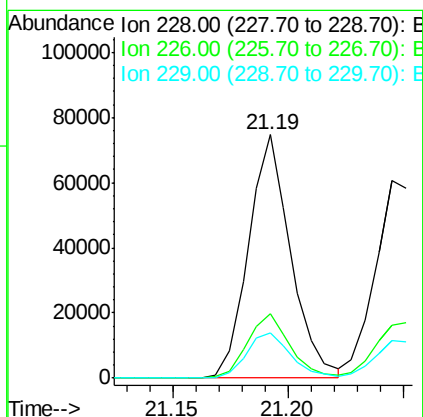
Manual Integrations  
APPROVED

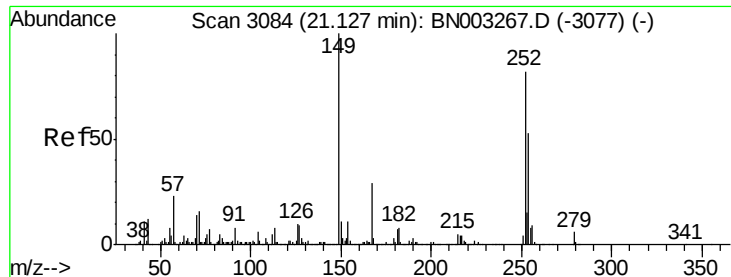
Sohil  
10/25/2018 3:20:17 PM



#81  
Benzo(a)anthracene  
Concen: 2.115 ng  
RT: 21.19 min Scan# 3095  
Delta R.T. -0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.3  | 20.8  | 31.2  |
| 229     | 18.5  | 15.3  | 22.9  |





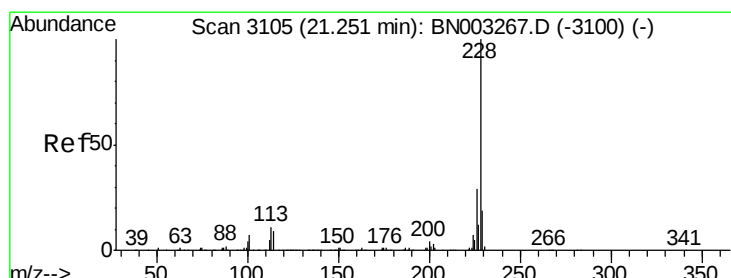
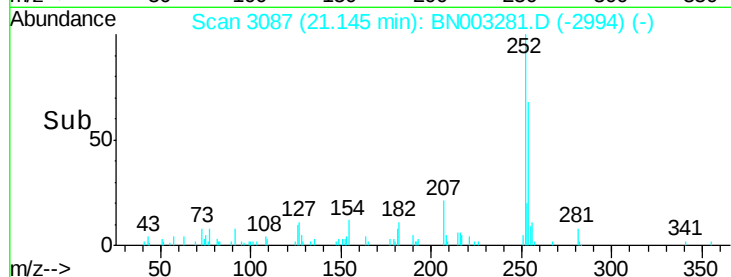
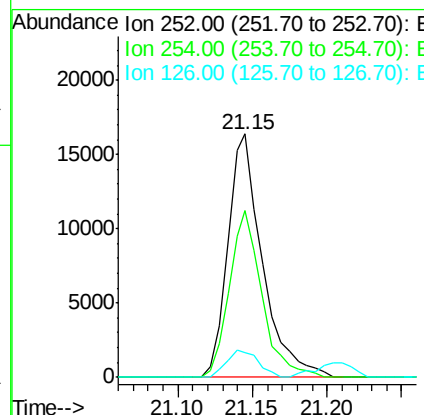
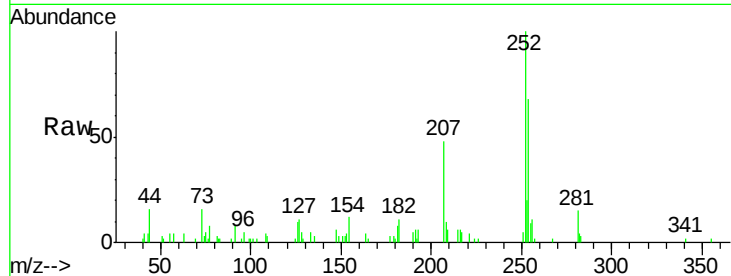
#82  
 3,3'-Dichlorobenzidine  
 Concen: 1.428 ng  
 RT: 21.15 min Scan# 3087  
 Delta R.T. 0.02 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 68.5  | 51.1  | 76.7  |
| 126     | 10.2  | 9.3   | 13.9  |

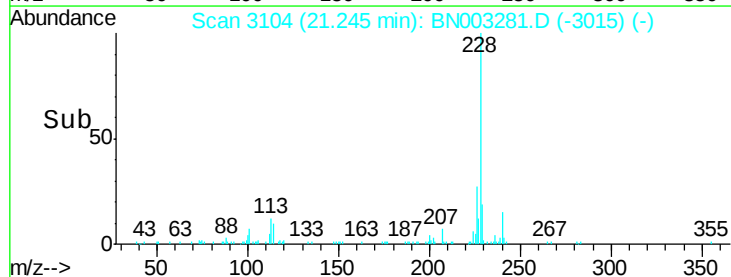
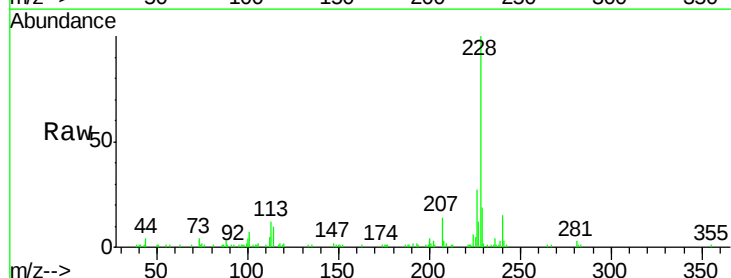
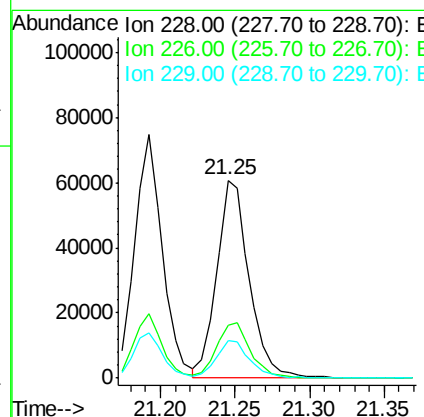
Manual Integrations  
 APPROVED

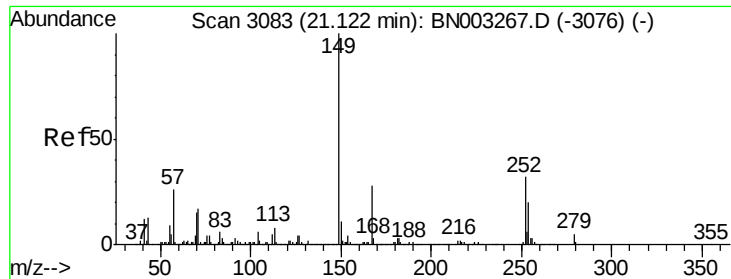
Sohil  
 10/25/2018 3:20:17 PM



#83  
 Chrysene  
 Concen: 2.141 ng  
 RT: 21.25 min Scan# 3104  
 Delta R.T. -0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.8  | 23.3  | 34.9  |
| 229     | 19.0  | 15.3  | 22.9  |





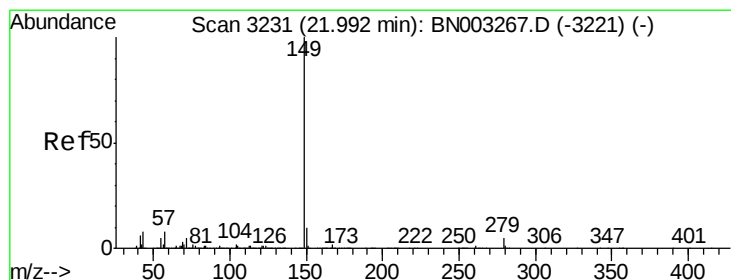
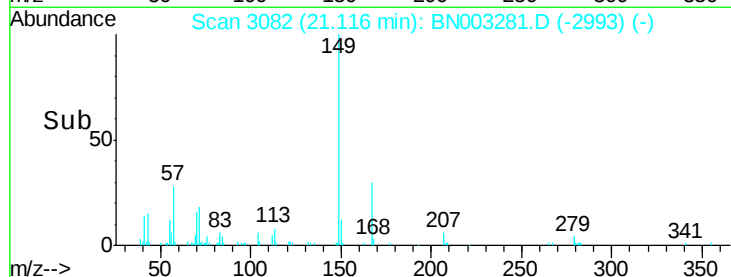
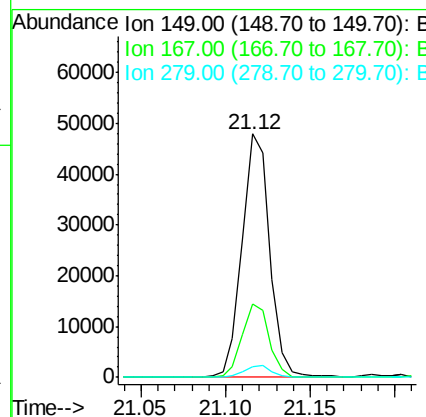
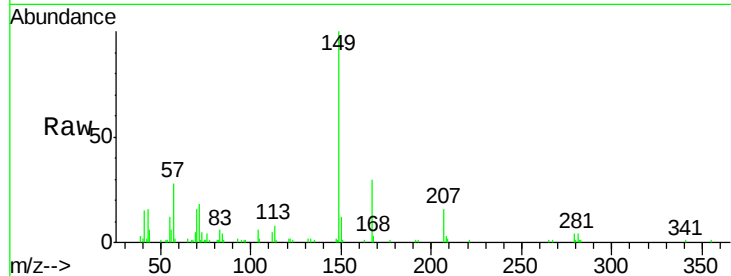
#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 1.754 ng  
 RT: 21.12 min Scan# 3082  
 Delta R.T. -0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 30.1  | 22.6  | 33.8  |
| 279     | 4.3   | 3.8   | 5.8   |

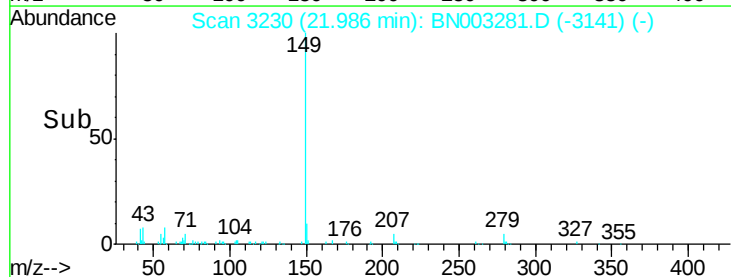
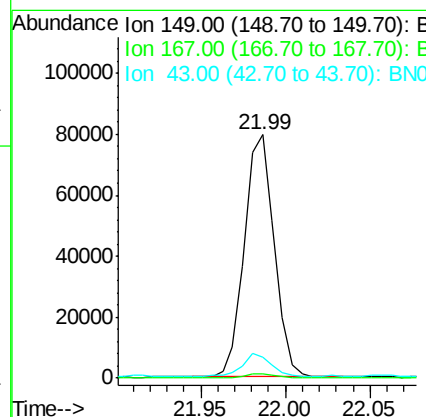
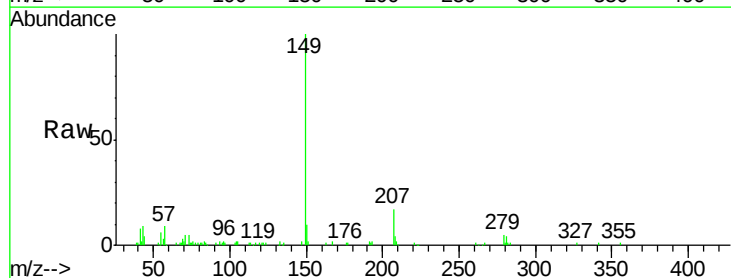
Manual Integrations  
 APPROVED

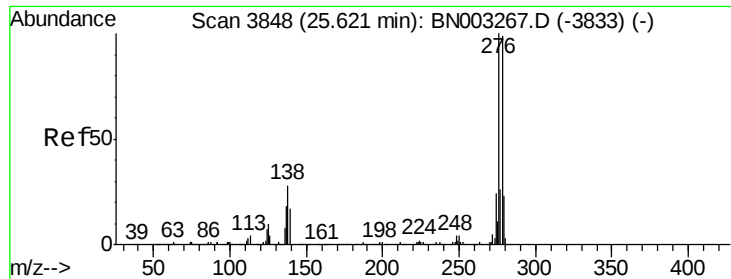
Sohil  
 10/25/2018 3:20:17 PM



#85  
 Di-n-octyl phthalate  
 Concen: 1.832 ng  
 RT: 21.99 min Scan# 3230  
 Delta R.T. -0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 1.7   | 1.3   | 1.9   |
| 43      | 8.9   | 6.9   | 10.3  |





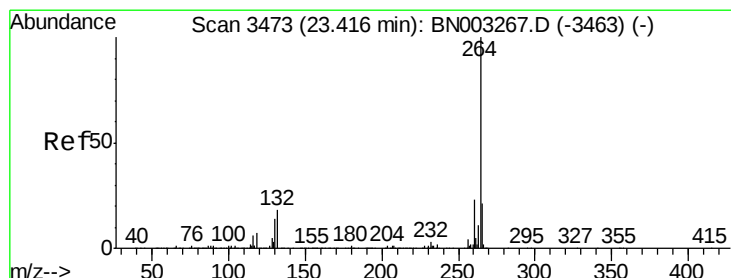
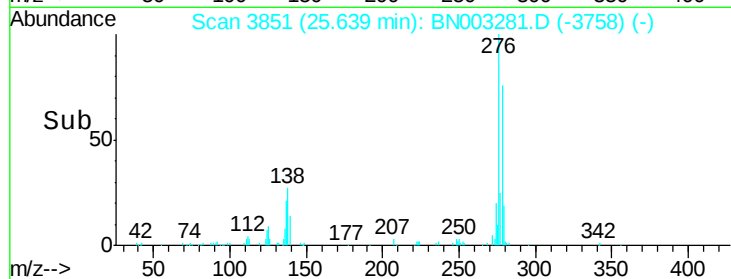
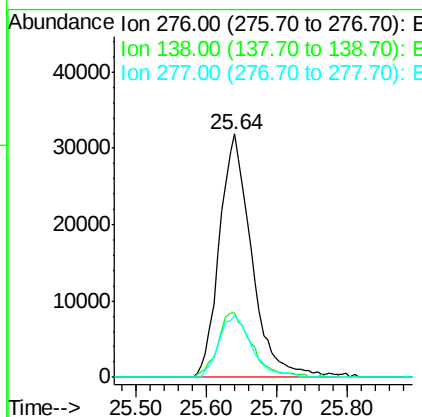
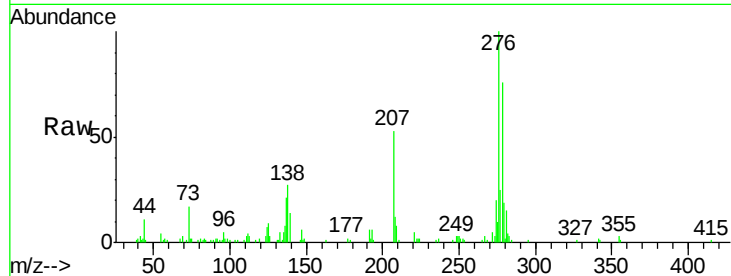
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.056 ng  
 RT: 25.64 min Scan# 3851  
 Delta R.T. 0.02 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.5  | 21.2  | 31.8  |
| 277     | 25.6  | 20.2  | 30.4  |

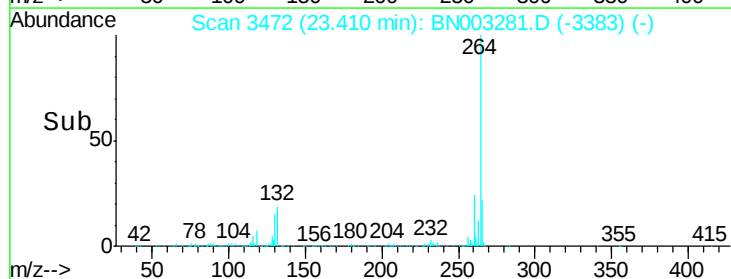
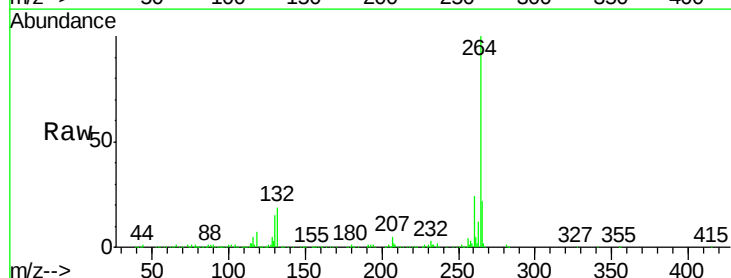
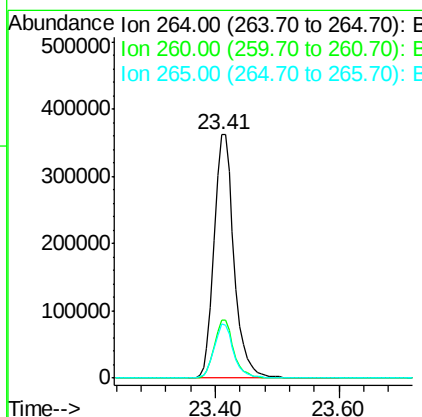
Manual Integrations  
 APPROVED

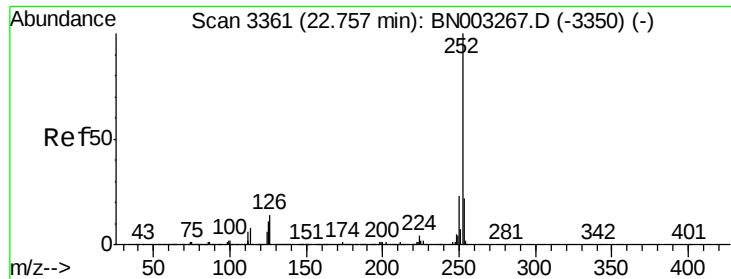
Sohil  
 10/25/2018 3:20:17 PM



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 23.41 min Scan# 3472  
 Delta R.T. -0.01 min  
 Lab File: BN003281.D  
 Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 18.5  | 27.7  |
| 265     | 22.4  | 16.6  | 25.0  |





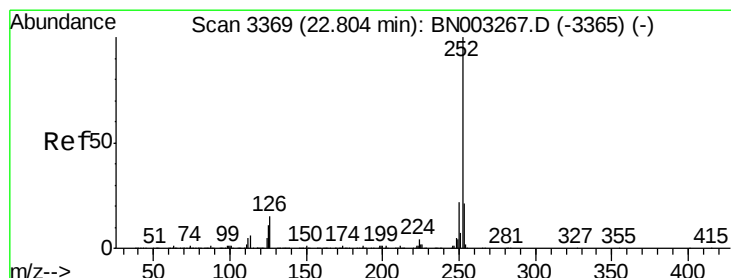
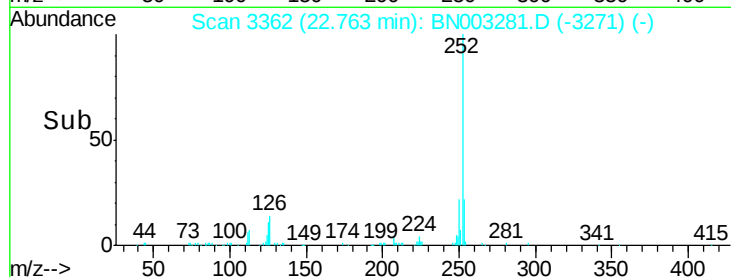
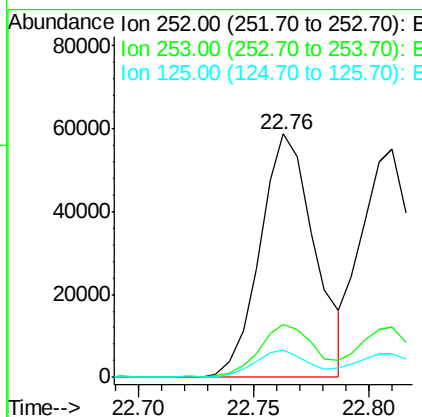
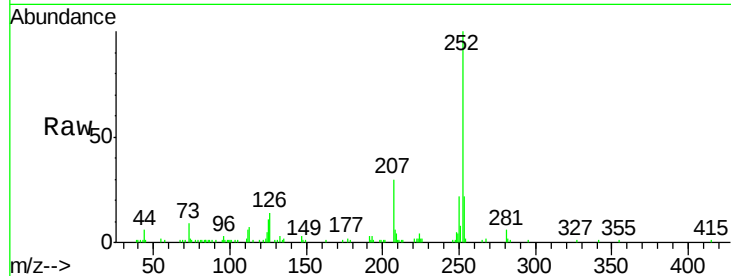
#88  
Benzo(b)fluoranthene  
Concen: 2.176 ng  
RT: 22.76 min Scan# 3362  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 17.8  | 26.6  |
| 125     | 11.4  | 8.6   | 12.8  |

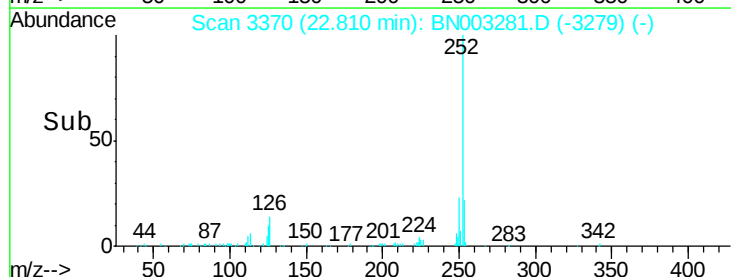
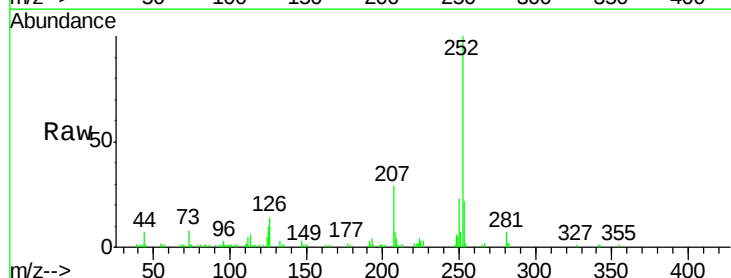
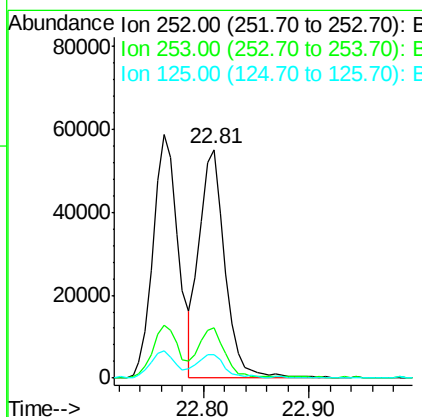
Manual Integrations  
APPROVED

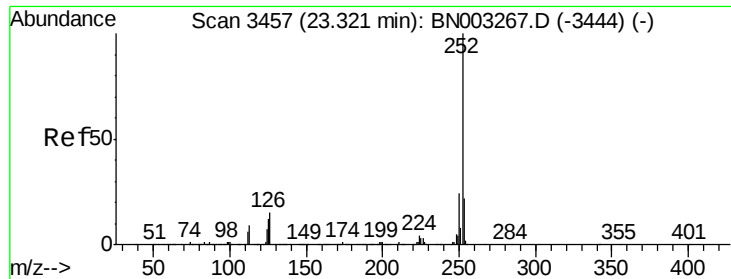
Sohil  
10/25/2018 3:20:17 PM



#89  
Benzo(k)fluoranthene  
Concen: 2.146 ng  
RT: 22.81 min Scan# 3370  
Delta R.T. 0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 17.4  | 26.0  |
| 125     | 10.3  | 8.7   | 13.1  |





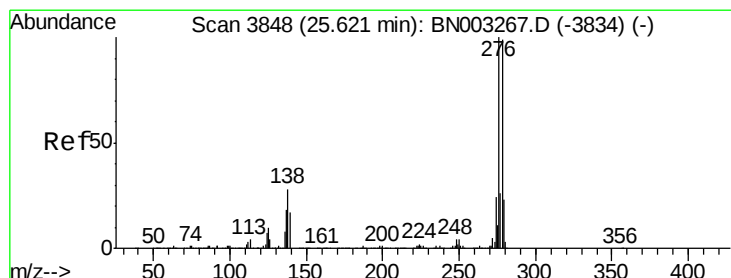
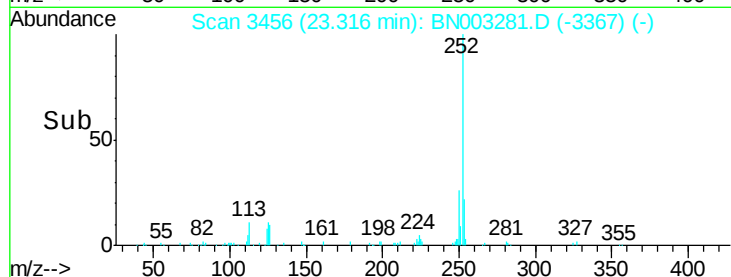
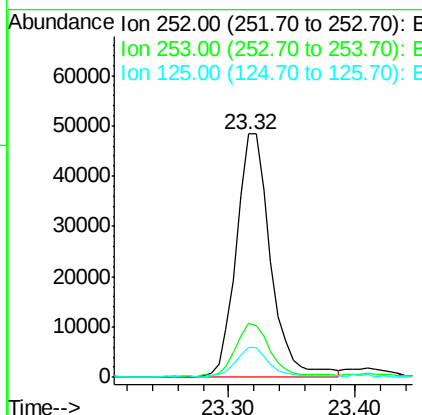
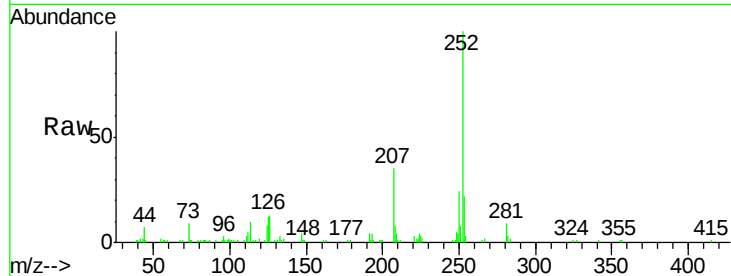
#90  
Benzo(a)pyrene  
Concen: 2.155 ng  
RT: 23.32 min Scan# 3456  
Delta R.T. -0.01 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.8  | 26.6  |
| 125     | 12.5  | 9.6   | 14.4  |

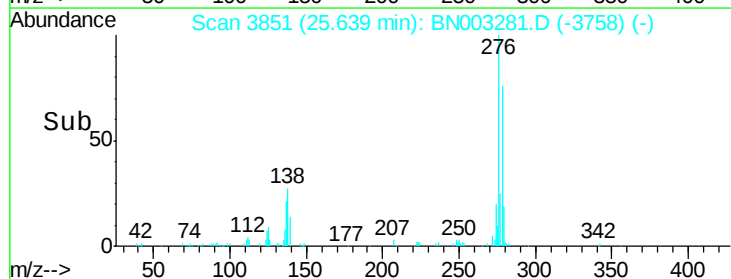
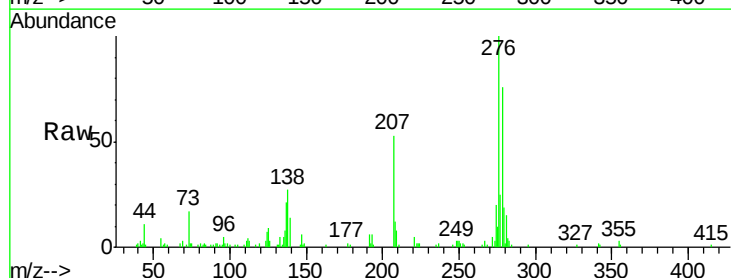
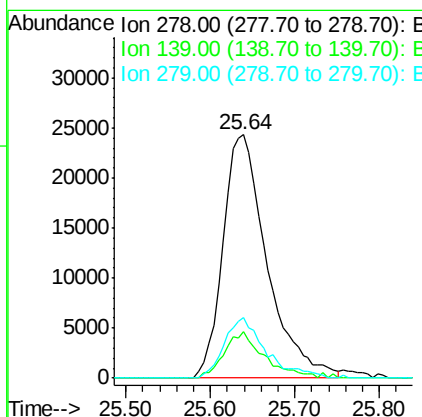
Manual Integrations  
APPROVED

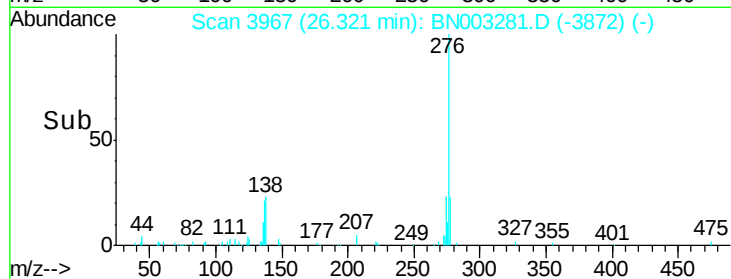
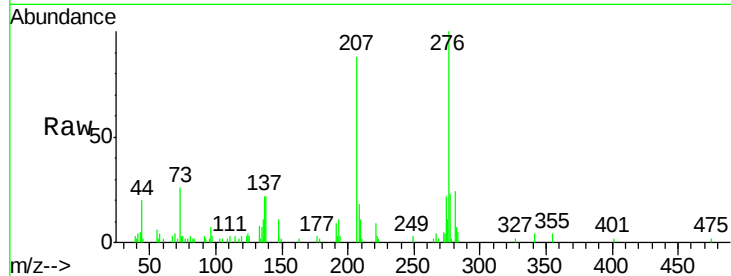
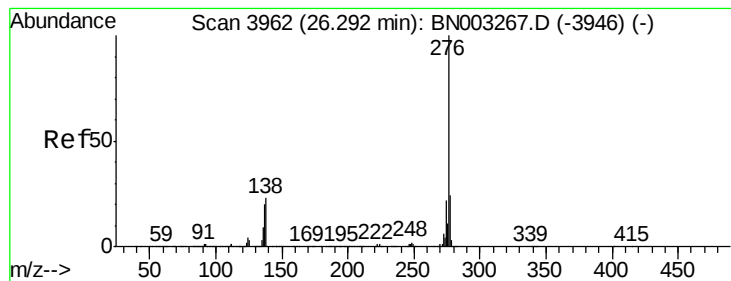
Sohil  
10/25/2018 3:20:17 PM



#91  
Dibenzo(a,h)anthracene  
Concen: 2.096 ng  
RT: 25.64 min Scan# 3851  
Delta R.T. 0.02 min  
Lab File: BN003281.D  
Acq: 24 Oct 2018 20:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.8  | 13.9  | 20.9  |
| 279     | 25.0  | 19.0  | 28.6  |





#92

Benzo(g,h,i)perylene

Concen: 2.098 ng

RT: 26.32 min Scan# 3967

Delta R.T. 0.03 min

Lab File: BN003281.D

Acq: 24 Oct 2018 20:52

Instrument :

BNA\_N

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 84329 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 22.8  | 19.1  | 28.7  |
| 138       | 22.0  | 18.2  | 27.4  |

Manual Integrations  
APPROVED

Sohil  
10/25/2018 3:20:17 PM

