

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN011522\  
 Data File : BN018410.D  
 Acq On : 15 Jan 2022 12:09  
 Operator : CG/JU  
 Sample : M3263-04  
 Misc : SFAM-SOIL-MDL-02  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-SOIL-QT4-2021-08

Quant Time: Jan 17 04:38:33 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN010622.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jan 07 01:31:51 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut  
 Upadhyay

01/17/2022  
 Supervised By :mohammad  
 ahmed

| Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------|--------|------|----------|--------|-------|----------|
| -----                     |        |      |          |        |       |          |
| Internal Standards        |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4 | 7.587  | 152  | 333135   | 20.000 | ng/u1 | 0.00     |
| 20) Naphthalene-d8        | 10.369 | 136  | 1521597  | 20.000 | ng/u1 | 0.00     |
| 38) Acenaphthene-d10      | 14.234 | 164  | 974258   | 20.000 | ng/u1 | 0.00     |
| 64) Phenanthrene-d10      | 16.975 | 188  | 2026723  | 20.000 | ng/u1 | 0.00     |
| 79) Chrysene-d12          | 21.169 | 240  | 1991634  | 20.000 | ng/u1 | #-0.01   |
| 88) Perylene-d12          | 23.392 | 264  | 2024972  | 20.000 | ng/u1 | 0.00     |

01/18/2022

|                               |        |     |         |        |       |       |
|-------------------------------|--------|-----|---------|--------|-------|-------|
| System Monitoring Compounds   |        |     |         |        |       |       |
| 3) 1,4-Dioxane-d8             | 3.064  | 96  | 47478   | 5.729  | ng/uL | 0.00  |
| 4) Pyridine-d5                | 3.464  | 84  | 679075  | 26.184 | ng/u1 | 0.00  |
| 7) Phenol-d5                  | 6.775  | 99  | 1029752 | 31.805 | ng/u1 | 0.00  |
| 9) Bis-(2-Chloroethyl)eth...  | 6.928  | 67  | 687504  | 33.335 | ng/u1 | 0.00  |
| 11) 2-Chlorophenol-d4         | 7.122  | 132 | 820187  | 34.584 | ng/u1 | 0.00  |
| 15) 4-Methylphenol-d8         | 8.305  | 113 | 833297  | 32.607 | ng/u1 | -0.01 |
| 21) Nitrobenzene-d5           | 8.740  | 128 | 389135  | 34.337 | ng/u1 | 0.00  |
| 24) 2-Nitrophenol-d4          | 9.457  | 143 | 433993  | 35.826 | ng/u1 | 0.00  |
| 28) 2,4-Dichlorophenol-d3     | 9.999  | 165 | 753336  | 34.229 | ng/u1 | 0.00  |
| 31) 4-Chloroaniline-d4        | 10.504 | 131 | 1117979 | 33.052 | ng/u1 | -0.01 |
| 46) Dimethylphthalate-d6      | 13.651 | 166 | 2600361 | 36.747 | ng/u1 | 0.00  |
| 49) Acenaphthylene-d8         | 13.922 | 160 | 2929862 | 32.752 | ng/u1 | 0.00  |
| 54) 4-Nitrophenol-d4          | 14.445 | 143 | 398258  | 29.493 | ng/u1 | 0.00  |
| 60) Fluorene-d10              | 15.228 | 176 | 2063098 | 34.556 | ng/u1 | 0.00  |
| 65) 4,6-Dinitro-2-methylph... | 15.351 | 200 | 337605  | 29.439 | ng/u1 | -0.01 |
| 73) Anthracene-d10            | 17.075 | 188 | 3083393 | 32.849 | ng/u1 | 0.00  |
| 81) Pyrene-d10                | 19.375 | 212 | 3401277 | 29.771 | ng/u1 | 0.00  |
| 92) Benzo(a)pyrene-d12        | 23.251 | 264 | 3975125 | 39.444 | ng/u1 | 0.00  |

| Target Compounds              |        |     |        |       | Qvalue     |
|-------------------------------|--------|-----|--------|-------|------------|
| 5) Pyridine                   | 3.487  | 79  | 115009 | 4.264 | ng/u1# 75  |
| 6) Benzaldehyde               | 6.728  | 77  | 82892  | 4.031 | ng/u1 98   |
| 8) Phenol                     | 6.799  | 94  | 143615 | 4.256 | ng/u1# 91  |
| 10) Bis(2-Chloroethyl)ether   | 7.022  | 93  | 123290 | 4.532 | ng/u1 93   |
| 12) 2-Chlorophenol            | 7.158  | 128 | 111240 | 4.445 | ng/u1 90   |
| 13) 2-Methylphenol            | 8.046  | 108 | 95310  | 3.754 | ng/u1 97   |
| 14) 2,2'-oxybis(1-Chloropr... | 8.122  | 45  | 149184 | 4.132 | ng/u1 98   |
| 16) Acetophenone              | 8.405  | 105 | 179193 | 4.578 | ng/u1 99   |
| 17) N-Nitroso-di-n-propyla... | 8.399  | 70  | 88944  | 4.159 | ng/u1 95   |
| 18) 4-Methylphenol            | 8.369  | 108 | 114993 | 4.222 | ng/u1 96   |
| 19) Hexachloroethane          | 8.657  | 117 | 45096  | 4.345 | ng/u1# 75  |
| 22) Nitrobenzene              | 8.781  | 77  | 139871 | 4.672 | ng/u1 98   |
| 23) Isophorone                | 9.299  | 82  | 231209 | 3.845 | ng/u1 99   |
| 25) 2-Nitrophenol             | 9.487  | 139 | 61702  | 4.575 | ng/u1 95   |
| 26) 2,4-Dimethylphenol        | 9.563  | 107 | 125841 | 4.208 | ng/u1 97   |
| 27) Bis(2-Chloroethoxy)met... | 9.793  | 93  | 157120 | 4.200 | ng/u1 97   |
| 29) 2,4-Dichlorophenol        | 10.022 | 162 | 101233 | 4.541 | ng/u1 92   |
| 30) Naphthalene               | 10.416 | 128 | 375086 | 4.506 | ng/u1 98   |
| 32) 4-Chloroaniline           | 10.528 | 127 | 148295 | 4.293 | ng/u1 96   |
| 33) Hexachlorobutadiene       | 10.710 | 225 | 56438  | 4.643 | ng/u1 99   |
| 34) Caprolactam               | 11.281 | 113 | 33456  | 3.818 | ng/u1 91   |
| 35) 4-Chloro-3-methylphenol   | 11.675 | 107 | 106306 | 3.810 | ng/u1 93   |
| 36) 2-Methylnaphthalene       | 12.040 | 142 | 259149 | 4.665 | ng/u1 100  |
| 37) 1-Methylnaphthalene       | 12.263 | 142 | 263086 | 4.551 | ng/u1# 100 |

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| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |            |
|-------------------------------|--------|------|----------|-------|--------|----------|------------|
| 39) 1,2,4,5-Tetrachloroben... | 12.416 | 216  | 115868   | 4.637 | ng/ul# | 95       | 01/18/2022 |
| 40) Hexachlorocyclopentadiene | 12.404 | 237  | 57840    | 4.030 | ng/ul# | 95       |            |
| 41) 2,4,6-Trichlorophenol     | 12.663 | 196  | 65206    | 3.847 | ng/ul  | 96       |            |
| 42) 2,4,5-Trichlorophenol     | 12.740 | 196  | 74638    | 4.154 | ng/ul  | 98       |            |
| 43) 1,1'-Biphenyl             | 13.063 | 154  | 349029   | 4.600 | ng/ul  | 99       |            |
| 44) 2-Chloronaphthalene       | 13.098 | 162  | 266685   | 4.704 | ng/ul# | 93       |            |
| 45) 2-Nitroaniline            | 13.310 | 65   | 57842    | 3.260 | ng/ul  | 98       |            |
| 47) Dimethylphthalate         | 13.698 | 163  | 347127   | 4.833 | ng/ul  | 99       |            |
| 48) 2,6-Dinitrotoluene        | 13.810 | 165  | 48601    | 3.571 | ng/ul# | 87       |            |
| 50) Acenaphthylene            | 13.951 | 152  | 403442   | 4.280 | ng/ul  | 100      |            |
| 51) 3-Nitroaniline            | 14.145 | 138  | 46994    | 3.071 | ng/ul  | 95       |            |
| 52) Acenaphthene              | 14.298 | 153  | 284645   | 4.582 | ng/ul  | 96       |            |
| 53) 2,4-Dinitrophenol         | 14.357 | 184  | 22163m   | 2.891 | ng/ul  |          |            |
| 55) 4-Nitrophenol             | 14.463 | 109  | 46613    | 4.040 | ng/ul  | 96       |            |
| 56) Dibenzofuran              | 14.634 | 168  | 404846   | 4.700 | ng/ul  | 91       |            |
| 57) 2,4-Dinitrotoluene        | 14.604 | 165  | 82561    | 4.216 | ng/ul# | 87       |            |
| 58) 2,3,4,6-Tetrachlorophenol | 14.863 | 232  | 62321    | 4.303 | ng/ul# | 74       |            |
| 59) Diethylphthalate          | 15.069 | 149  | 338006   | 4.559 | ng/ul  | 95       |            |
| 61) Fluorene                  | 15.281 | 166  | 324891   | 4.897 | ng/ul  | 99       |            |
| 62) 4-Chlorophenyl-phenyle... | 15.281 | 204  | 146296   | 4.932 | ng/ul# | 81       |            |
| 63) 4-Nitroaniline            | 15.304 | 138  | 46405    | 3.400 | ng/ul  | 86       |            |
| 66) 4,6-Dinitro-2-methylph... | 15.369 | 198  | 49633    | 4.246 | ng/ul# | 64       |            |
| 67) N-Nitrosodiphenylamine    | 15.498 | 169  | 277380   | 4.416 | ng/ul  | 97       |            |
| 68) 4-Bromophenyl-phenylether | 16.175 | 248  | 83728    | 4.260 | ng/ul# | 78       |            |
| 69) Hexachlorobenzene         | 16.292 | 284  | 104808   | 4.449 | ng/ul# | 89       |            |
| 70) Atrazine                  | 16.451 | 200  | 77597    | 3.767 | ng/ul  | 92       |            |
| 71) Pentachlorophenol         | 16.639 | 266  | 55297    | 4.112 | ng/ul  | 91       |            |
| 72) Phenanthrene              | 17.016 | 178  | 514719   | 4.469 | ng/ul  | 99       |            |
| 74) Anthracene                | 17.110 | 178  | 504061   | 4.409 | ng/ul  | 98       |            |
| 75) 1,2,3,4-Tetrachloroben... | 13.028 | 216  | 114936   | 3.972 | ng/uL  | 96       |            |
| 76) Pentachlorobenzene        | 14.557 | 250  | 120613   | 4.458 | ng/uL  | 99       |            |
| 77) Carbazole                 | 17.381 | 167  | 435690   | 4.330 | ng/ul  | 98       |            |
| 78) Di-n-butylphthalate       | 17.963 | 149  | 474833   | 3.838 | ng/ul  | 99       |            |
| 80) Fluoranthene              | 19.039 | 202  | 581018   | 4.196 | ng/ul# | 91       |            |
| 82) Pyrene                    | 19.404 | 202  | 614396   | 4.354 | ng/ul# | 94       |            |
| 83) Butylbenzylphthalate      | 20.322 | 149  | 180574   | 3.087 | ng/ul# | 93       |            |
| 84) 3,3'-Dichlorobenzidine    | 21.098 | 252  | 134731   | 3.509 | ng/ul# | 94       |            |
| 85) Benzo(a)anthracene        | 21.157 | 228  | 586133   | 4.496 | ng/ul  | 99       |            |
| 86) Bis(2-ethylhexyl)phtha... | 21.110 | 149  | 316725   | 3.560 | ng/ul# | 93       |            |
| 87) Chrysene                  | 21.210 | 228  | 581809   | 4.532 | ng/ul  | 99       |            |
| 89) Di-n-octyl phthalate      | 21.980 | 149  | 490661   | 3.381 | ng/ul  | 100      |            |
| 90) Benzo(b)fluoranthene      | 22.721 | 252  | 581646   | 4.481 | ng/ul# | 94       |            |
| 91) Benzo(k)fluoranthene      | 22.768 | 252  | 585822   | 4.866 | ng/ul# | 95       |            |
| 93) Benzo(a)pyrene            | 23.292 | 252  | 517045   | 4.177 | ng/ul# | 94       |            |
| 94) Indeno(1,2,3-cd)pyrene    | 25.639 | 276  | 629744m  | 4.600 | ng/ul  |          |            |
| 95) Dibenzo(a,h)anthracene    | 25.657 | 278  | 513954m  | 4.452 | ng/ul  |          |            |
| 96) Benzo(g,h,i)perylene      | 26.315 | 276  | 494846   | 4.314 | ng/ul# | 92       |            |

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

