

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM091124\  
 Data File : BM047478.D  
 Acq On : 11 Sep 2024 12:31  
 Operator : RC/JU  
 Sample : P3391-05  
 Misc : SFAM-MDL-Q3-ME SOIL-01  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-MED-SOIL-QT3-2024-05

Quant Time: Sep 11 13:17:24 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM091024.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Sep 11 00:35:12 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Jagrut  
 Upadhyay

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.869  | 152  | 432521   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.669 | 136  | 1959335  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.498 | 164  | 1219459  | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.233 | 188  | 2491653  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.463 | 240  | 2110619  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.509 | 264  | 1863109  | 20.000 | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.305  | 96   | 53414    | 4.980  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.711  | 84   | 810008   | 23.641 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.022  | 99   | 890458   | 21.963 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.199  | 67   | 591658   | 23.445 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.399  | 132  | 693747   | 22.467 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.563  | 113  | 646735   | 20.294 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.022  | 128  | 357675   | 23.638 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.746  | 143  | 333925   | 23.360 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.281 | 165  | 617493   | 21.245 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.793 | 131  | 973029   | 20.455 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.904 | 166  | 2009474  | 22.419 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.192 | 160  | 2395177  | 22.145 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.669 | 143  | 375618   | 21.151 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.486 | 176  | 1782210  | 23.010 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.592 | 200  | 235490   | 17.878 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.333 | 188  | 2298041  | 19.153 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.616 | 212  | 2909660  | 23.654 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.304 | 264  | 2309174  | 23.324 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.340  | 88   | 13186m   | 1.139  | ng/uL  |          |
| 5) Pyridine                   | 3.734  | 79   | 166647   | 4.711  | ng/u1  | 89       |
| 6) Benzaldehyde               | 7.005  | 77   | 118052   | 5.501  | ng/u1  | 100      |
| 8) Phenol                     | 7.046  | 94   | 182825   | 4.380  | ng/u1  | 96       |
| 10) Bis(2-Chloroethyl)ether   | 7.287  | 93   | 161242   | 4.885  | ng/u1  | 96       |
| 12) 2-Chlorophenol            | 7.428  | 128  | 148552   | 4.645  | ng/u1  | 99       |
| 13) 2-Methylphenol            | 8.299  | 108  | 121800   | 3.877  | ng/u1  | 99       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.399  | 45   | 241949   | 5.002  | ng/u1  | 99       |
| 16) Acetophenone              | 8.687  | 105  | 241692   | 4.713  | ng/u1  | 99       |
| 17) N-Nitroso-di-n-propyla... | 8.675  | 70   | 130485   | 4.794  | ng/u1  | 94       |
| 18) 4-Methylphenol            | 8.628  | 108  | 142418   | 4.152  | ng/u1  | 93       |
| 19) Hexachloroethane          | 8.958  | 117  | 67213    | 4.891  | ng/u1  | 94       |
| 22) Nitrobenzene              | 9.063  | 77   | 187889   | 4.969  | ng/u1  | 99       |
| 23) Isophorone                | 9.593  | 82   | 349049   | 4.629  | ng/u1  | 97       |
| 25) 2-Nitrophenol             | 9.775  | 139  | 76985    | 4.658  | ng/u1  | 98       |
| 26) 2,4-Dimethylphenol        | 9.834  | 107  | 70866    | 1.994  | ng/u1  | 99       |
| 27) Bis(2-Chloroethoxy)met... | 10.075 | 93   | 218866   | 4.797  | ng/u1  | 98       |
| 29) 2,4-Dichlorophenol        | 10.304 | 162  | 129629   | 4.399  | ng/u1  | 93       |
| 30) Naphthalene               | 10.716 | 128  | 505368   | 4.682  | ng/u1  | 100      |
| 32) 4-Chloroaniline           | 10.816 | 127  | 204893   | 4.378  | ng/u1  | 99       |
| 33) Hexachlorobutadiene       | 11.010 | 225  | 83127    | 4.730  | ng/u1  | 97       |
| 34) Caprolactam               | 11.581 | 113  | 74301    | 6.546  | ng/u1  | 89       |
| 35) 4-Chloro-3-methylphenol   | 11.934 | 107  | 134334   | 4.048  | ng/u1  | 98       |
| 36) 2-Methylnaphthalene       | 12.328 | 142  | 332799   | 4.485  | ng/u1  | 98       |

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 ClientSampleId :  
 MDL-MED-SOIL-QT3-2024-05

Quant Time: Sep 11 13:17:24 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM091024.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Sep 11 00:35:12 2024  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By :Jagrut  
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|-------------------------------|--------|------|----------|-------|--------|----------|-------------------------|
| 37) 1-Methylnaphthalene       | 12.546 | 142  | 340229   | 4.538 | ng/ul  | 98       | 09/12/2024              |
| 39) 1,2,4,5-Tetrachloroben... | 12.693 | 216  | 157127   | 4.340 | ng/ul  | 98       | Supervised By :mohammad |
| 40) Hexachlorocyclopentadiene | 12.681 | 237  | 114863   | 4.615 | ng/ul  | 99       | ahmed                   |
| 41) 2,4,6-Trichlorophenol     | 12.928 | 196  | 87086    | 3.920 | ng/ul  | 100      |                         |
| 42) 2,4,5-Trichlorophenol     | 12.993 | 196  | 97756    | 4.049 | ng/ul  | 99       |                         |
| 43) 1,1'-Biphenyl             | 13.334 | 154  | 429873   | 4.472 | ng/ul  | 99       |                         |
| 44) 2-Chloronaphthalene       | 13.375 | 162  | 335424   | 4.550 | ng/ul  | 99       | 09/13/2024              |
| 45) 2-Nitroaniline            | 13.563 | 65   | 94208    | 4.393 | ng/ul  | 92       |                         |
| 47) Dimethylphthalate         | 13.951 | 163  | 422648   | 4.642 | ng/ul  | 99       |                         |
| 48) 2,6-Dinitrotoluene        | 14.063 | 165  | 69883    | 4.206 | ng/ul  | 91       |                         |
| 50) Acenaphthylene            | 14.216 | 152  | 560949   | 4.798 | ng/ul  | 99       |                         |
| 51) 3-Nitroaniline            | 14.381 | 138  | 72819    | 3.754 | ng/ul  | 100      |                         |
| 52) Acenaphthene              | 14.563 | 153  | 376146   | 4.528 | ng/ul  | 100      |                         |
| 53) 2,4-Dinitrophenol         | 14.587 | 184  | 52115    | 5.701 | ng/ul  | 99       |                         |
| 55) 4-Nitrophenol             | 14.681 | 109  | 71498    | 4.782 | ng/ul  | 95       |                         |
| 56) Dibenzofuran              | 14.892 | 168  | 492459   | 4.561 | ng/ul  | 99       |                         |
| 57) 2,4-Dinitrotoluene        | 14.845 | 165  | 103027   | 4.306 | ng/ul  | 97       |                         |
| 58) 2,3,4,6-Tetrachlorophenol | 15.116 | 232  | 73972    | 3.981 | ng/ul  | 95       |                         |
| 59) Diethylphthalate          | 15.316 | 149  | 433050   | 4.496 | ng/ul  | 99       |                         |
| 61) Fluorene                  | 15.539 | 166  | 426935   | 4.531 | ng/ul  | 99       |                         |
| 62) 4-Chlorophenyl-phenyle... | 15.539 | 204  | 198546   | 4.551 | ng/ul  | 99       |                         |
| 63) 4-Nitroaniline            | 15.539 | 138  | 75607    | 3.939 | ng/ul  | 98       |                         |
| 66) 4,6-Dinitro-2-methylph... | 15.604 | 198  | 59672    | 4.008 | ng/ul# | 90       |                         |
| 67) N-Nitrosodiphenylamine    | 15.745 | 169  | 327783   | 4.232 | ng/ul  | 99       |                         |
| 68) 4-Bromophenyl-phenylether | 16.428 | 248  | 108383   | 4.204 | ng/ul  | 96       |                         |
| 69) Hexachlorobenzene         | 16.545 | 284  | 125256   | 4.252 | ng/ul  | 97       |                         |
| 70) Atrazine                  | 16.692 | 200  | 108356   | 3.982 | ng/ul  | 97       |                         |
| 71) Pentachlorophenol         | 16.881 | 266  | 100550   | 5.424 | ng/ul  | 99       |                         |
| 72) Phenanthrene              | 17.275 | 178  | 622494   | 4.379 | ng/ul  | 99       |                         |
| 74) Anthracene                | 17.363 | 178  | 565651   | 3.930 | ng/ul  | 100      |                         |
| 75) 1,2,3,4-Tetrachloroben... | 13.298 | 216  | 150489   | 4.153 | ng/uL  | 98       |                         |
| 76) Pentachlorobenzene        | 14.816 | 250  | 159645   | 4.461 | ng/uL  | 99       |                         |
| 77) Carbazole                 | 17.628 | 167  | 545979   | 4.149 | ng/ul  | 99       |                         |
| 78) Di-n-butylphthalate       | 18.204 | 149  | 706528   | 4.164 | ng/ul  | 99       |                         |
| 80) Fluoranthene              | 19.280 | 202  | 651630   | 4.495 | ng/ul  | 99       |                         |
| 82) Pyrene                    | 19.645 | 202  | 723380   | 4.681 | ng/ul  | 99       |                         |
| 83) Butylbenzylphthalate      | 20.545 | 149  | 275173   | 3.901 | ng/ul  | 95       |                         |
| 84) 3,3'-Dichlorobenzidine    | 21.363 | 252  | 169896   | 3.405 | ng/ul  | 96       |                         |
| 85) Benzo(a)anthracene        | 21.445 | 228  | 657472   | 4.361 | ng/ul  | 100      |                         |
| 86) Bis(2-ethylhexyl)phtha... | 21.386 | 149  | 418310   | 3.911 | ng/ul  | 98       |                         |
| 87) Chrysene                  | 21.504 | 228  | 606506   | 4.360 | ng/ul  | 98       |                         |
| 89) Di-n-octyl phthalate      | 22.545 | 149  | 621639   | 4.177 | ng/ul  | 100      |                         |
| 90) Benzo(b)fluoranthene      | 23.539 | 252  | 556642   | 4.654 | ng/ul  | 99       |                         |
| 91) Benzo(k)fluoranthene      | 23.604 | 252  | 560930   | 4.775 | ng/ul  | 99       |                         |
| 93) Benzo(a)pyrene            | 24.362 | 252  | 519143   | 4.725 | ng/ul  | 99       |                         |
| 94) Indeno(1,2,3-cd)pyrene    | 27.945 | 276  | 526695   | 3.909 | ng/ul  | 99       |                         |
| 95) Dibenzo(a,h)anthracene    | 28.009 | 278  | 447911   | 4.083 | ng/ul  | 98       |                         |
| 96) Benzo(g,h,i)perylene      | 29.015 | 276  | 418078   | 4.062 | ng/ul  | 98       |                         |

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

