

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032425\  
 Data File : BM049746.D  
 Acq On : 24 Mar 2025 11:41  
 Operator : RC/JU  
 Sample : Q1546-04  
 Misc : MDL-SOIL 4 ppm  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-QT1-2025-02

Quant Time: Mar 24 13:58:46 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM032125.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 21 16:26:37 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Rahul Chavli 03/24/2025  
 Supervised By :Jagrut Upadhyay 03/25/2025

| Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------|--------|------|----------|--------|-------|----------|
| -----                     |        |      |          |        |       |          |
| Internal Standards        |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4 | 7.804  | 152  | 242391   | 20.000 | ng/u1 | 0.00     |
| 20) Naphthalene-d8        | 10.598 | 136  | 836766   | 20.000 | ng/u1 | 0.00     |
| 38) Acenaphthene-d10      | 14.445 | 164  | 529694   | 20.000 | ng/u1 | 0.00     |
| 64) Phenanthrene-d10      | 17.186 | 188  | 1041612  | 20.000 | ng/u1 | 0.00     |
| 79) Chrysene-d12          | 21.421 | 240  | 906894   | 20.000 | ng/u1 | 0.00     |
| 88) Perylene-d12          | 24.432 | 264  | 900416   | 20.000 | ng/u1 | -0.01    |

|                               |        |     |         |        |       |       |
|-------------------------------|--------|-----|---------|--------|-------|-------|
| System Monitoring Compounds   |        |     |         |        |       |       |
| 3) 1,4-Dioxane-d8             | 3.251  | 96  | 26601   | 4.264  | ng/uL | 0.00  |
| 4) Pyridine-d5                | 3.663  | 84  | 433834  | 23.793 | ng/u1 | 0.00  |
| 7) Phenol-d5                  | 6.975  | 99  | 459581  | 25.240 | ng/u1 | 0.00  |
| 9) Bis-(2-Chloroethyl)eth...  | 7.134  | 67  | 315484  | 26.615 | ng/u1 | 0.00  |
| 11) 2-Chlorophenol-d4         | 7.339  | 132 | 370477  | 26.678 | ng/u1 | 0.00  |
| 15) 4-Methylphenol-d8         | 8.510  | 113 | 320161  | 23.887 | ng/u1 | 0.00  |
| 21) Nitrobenzene-d5           | 8.957  | 128 | 164212  | 26.632 | ng/u1 | 0.00  |
| 24) 2-Nitrophenol-d4          | 9.680  | 143 | 167260  | 26.799 | ng/u1 | 0.00  |
| 28) 2,4-Dichlorophenol-d3     | 10.222 | 165 | 355064  | 25.110 | ng/u1 | 0.00  |
| 31) 4-Chloroaniline-d4        | 10.733 | 131 | 445335  | 24.897 | ng/u1 | 0.00  |
| 46) Dimethylphthalate-d6      | 13.851 | 166 | 1010943 | 27.224 | ng/u1 | 0.00  |
| 49) Acenaphthylene-d8         | 14.133 | 160 | 1217975 | 27.033 | ng/u1 | 0.00  |
| 54) 4-Nitrophenol-d4          | 14.639 | 143 | 140188  | 22.168 | ng/u1 | 0.00  |
| 60) Fluorene-d10              | 15.433 | 176 | 919910  | 27.527 | ng/u1 | 0.00  |
| 65) 4,6-Dinitro-2-methylph... | 15.545 | 200 | 111219  | 18.704 | ng/u1 | 0.00  |
| 73) Anthracene-d10            | 17.280 | 188 | 1326909 | 25.442 | ng/u1 | 0.00  |
| 81) Pyrene-d10                | 19.574 | 212 | 1537695 | 29.738 | ng/u1 | 0.00  |
| 92) Benzo(a)pyrene-d12        | 24.227 | 264 | 1347248 | 28.259 | ng/u1 | -0.01 |

|                               |        |     |        |        |        |     |
|-------------------------------|--------|-----|--------|--------|--------|-----|
| Target Compounds              |        |     |        | Qvalue |        |     |
| 2) 1,4-Dioxane                | 3.287  | 88  | 9372   | 1.433  | ng/uL  | 96  |
| 5) Pyridine                   | 3.687  | 79  | 82177  | 4.494  | ng/u1# | 78  |
| 6) Benzaldehyde               | 6.945  | 77  | 51774  | 5.144  | ng/u1  | 97  |
| 8) Phenol                     | 6.998  | 94  | 85362  | 4.499  | ng/u1  | 98  |
| 10) Bis(2-Chloroethyl)ether   | 7.228  | 93  | 70149  | 4.547  | ng/u1  | 94  |
| 12) 2-Chlorophenol            | 7.369  | 128 | 67932  | 4.628  | ng/u1  | 97  |
| 13) 2-Methylphenol            | 8.251  | 108 | 49602  | 3.758  | ng/u1  | 98  |
| 14) 2,2'-oxybis(1-Chloropr... | 8.328  | 45  | 91646  | 4.823  | ng/u1  | 100 |
| 16) Acetophenone              | 8.622  | 105 | 100952 | 4.510  | ng/u1  | 97  |
| 17) N-Nitroso-di-n-propyla... | 8.610  | 70  | 47095  | 4.374  | ng/u1  | 98  |
| 18) 4-Methylphenol            | 8.575  | 108 | 58694  | 4.107  | ng/u1  | 96  |
| 19) Hexachloroethane          | 8.886  | 117 | 31061  | 4.704  | ng/u1  | 97  |
| 22) Nitrobenzene              | 8.998  | 77  | 76203  | 4.733  | ng/u1  | 99  |
| 23) Isophorone                | 9.528  | 82  | 115389 | 4.204  | ng/u1  | 99  |
| 25) 2-Nitrophenol             | 9.710  | 139 | 32156  | 4.495  | ng/u1  | 96  |
| 26) 2,4-Dimethylphenol        | 9.775  | 107 | 27710  | 2.070  | ng/u1  | 96  |
| 27) Bis(2-Chloroethoxy)met... | 10.010 | 93  | 82121  | 4.564  | ng/u1  | 99  |
| 29) 2,4-Dichlorophenol        | 10.245 | 162 | 64265  | 4.488  | ng/u1  | 95  |
| 30) Naphthalene               | 10.651 | 128 | 199321 | 4.592  | ng/u1  | 99  |
| 32) 4-Chloroaniline           | 10.751 | 127 | 76801  | 4.444  | ng/u1  | 98  |
| 33) Hexachlorobutadiene       | 10.939 | 225 | 50854  | 4.560  | ng/u1  | 98  |
| 34) Caprolactam               | 11.527 | 113 | 14222m | 3.977  | ng/u1  |     |
| 35) 4-Chloro-3-methylphenol   | 11.886 | 107 | 43129  | 3.787  | ng/u1  | 98  |
| 36) 2-Methylnaphthalene       | 12.263 | 142 | 132367 | 4.394  | ng/u1  | 97  |

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 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 21 16:26:37 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.480 | 142  | 123315   | 4.150 | ng/ul  | 94       |
| 39) 1,2,4,5-Tetrachloroben... | 12.633 | 216  | 89315    | 4.397 | ng/ul  | 99       |
| 40) Hexachlorocyclopentadiene | 12.621 | 237  | 43350    | 3.611 | ng/ul  | 94       |
| 41) 2,4,6-Trichlorophenol     | 12.874 | 196  | 38630    | 3.599 | ng/ul  | 95       |
| 42) 2,4,5-Trichlorophenol     | 12.945 | 196  | 44994    | 3.880 | ng/ul  | 99       |
| 43) 1,1'-Biphenyl             | 13.274 | 154  | 181242   | 4.517 | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 13.316 | 162  | 149326   | 4.591 | ng/ul  | 99       |
| 45) 2-Nitroaniline            | 13.515 | 65   | 26512    | 3.818 | ng/ul  | 92       |
| 47) Dimethylphthalate         | 13.898 | 163  | 171463   | 4.655 | ng/ul  | 98       |
| 48) 2,6-Dinitrotoluene        | 14.010 | 165  | 23860    | 3.715 | ng/ul# | 91       |
| 50) Acenaphthylene            | 14.163 | 152  | 212192   | 4.611 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.339 | 138  | 21143    | 3.185 | ng/ul# | 98       |
| 52) Acenaphthene              | 14.504 | 153  | 145865   | 4.367 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 14.545 | 184  | 13681    | 3.602 | ng/ul  | 97       |
| 55) 4-Nitrophenol             | 14.651 | 109  | 20750    | 4.133 | ng/ul  | 95       |
| 56) Dibenzofuran              | 14.839 | 168  | 220410   | 4.688 | ng/ul  | 100      |
| 57) 2,4-Dinitrotoluene        | 14.798 | 165  | 35510    | 3.786 | ng/ul  | 97       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.068 | 232  | 32190    | 3.610 | ng/ul  | 95       |
| 59) Diethylphthalate          | 15.262 | 149  | 150040   | 4.373 | ng/ul  | 97       |
| 61) Fluorene                  | 15.492 | 166  | 172583   | 4.356 | ng/ul  | 96       |
| 62) 4-Chlorophenyl-phenyle... | 15.486 | 204  | 92027    | 4.260 | ng/ul  | 95       |
| 63) 4-Nitroaniline            | 15.498 | 138  | 20424    | 3.269 | ng/ul  | 97       |
| 66) 4,6-Dinitro-2-methylph... | 15.557 | 198  | 27343    | 4.077 | ng/ul# | 83       |
| 67) N-Nitrosodiphenylamine    | 15.698 | 169  | 131794   | 4.208 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.380 | 248  | 49402    | 4.110 | ng/ul  | 95       |
| 69) Hexachlorobenzene         | 16.492 | 284  | 60593    | 4.372 | ng/ul  | 99       |
| 70) Atrazine                  | 16.651 | 200  | 47361    | 4.116 | ng/ul  | 98       |
| 71) Pentachlorophenol         | 16.839 | 266  | 28487    | 3.378 | ng/ul  | 99       |
| 72) Phenanthrene              | 17.227 | 178  | 262058   | 4.412 | ng/ul  | 99       |
| 74) Anthracene                | 17.315 | 178  | 250292   | 4.200 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.239 | 216  | 81024    | 4.124 | ng/ul  | 98       |
| 76) Pentachlorobenzene        | 14.762 | 250  | 76147    | 4.107 | ng/ul  | 96       |
| 77) Carbazole                 | 17.586 | 167  | 203080   | 3.831 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.156 | 149  | 204980   | 3.745 | ng/ul  | 98       |
| 80) Fluoranthene              | 19.239 | 202  | 270901   | 4.549 | ng/ul  | 99       |
| 82) Pyrene                    | 19.603 | 202  | 304740   | 4.722 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.509 | 149  | 69378    | 3.724 | ng/ul  | 94       |
| 84) 3,3'-Dichlorobenzidine    | 21.327 | 252  | 49830    | 2.718 | ng/ul# | 96       |
| 85) Benzo(a)anthracene        | 21.403 | 228  | 277815   | 4.455 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.339 | 149  | 100486   | 3.428 | ng/ul  | 99       |
| 87) Chrysene                  | 21.468 | 228  | 255501   | 4.398 | ng/ul  | 100      |
| 89) Di-n-octyl phthalate      | 22.480 | 149  | 139920   | 2.748 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.480 | 252  | 247604   | 4.232 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 23.544 | 252  | 247391   | 4.100 | ng/ul  | 99       |
| 93) Benzo(a)pyrene            | 24.291 | 252  | 222757   | 4.109 | ng/ul  | 100      |
| 94) Indeno(1,2,3-cd)pyrene    | 27.820 | 276  | 283967   | 4.195 | ng/ul  | 98       |
| 95) Dibenzo(a,h)anthracene    | 27.885 | 278  | 229908   | 4.175 | ng/ul  | 95       |
| 96) Benzo(g,h,i)perylene      | 28.873 | 276  | 227118   | 4.371 | ng/ul  | 98       |

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

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