

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
 Data File : BM045813.D  
 Acq On : 04 Jun 2024 12:29  
 Operator : MA/JU  
 Sample : P2409-02  
 Misc : SFAM-WATER-MDL-02  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-WATER-QT2-2024-04

Quant Time: Jun 04 13:35:52 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 31 13:01:11 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
 Supervised By :mohammad ahmed 06/07/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.463  | 152  | 254345   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.233 | 136  | 1041594  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.110 | 164  | 622219   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 16.856 | 188  | 1189653  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.068 | 240  | 905193   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.785 | 264  | 912237   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.051  | 96   | 32811    | 5.002  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.463  | 84   | 380529   | 22.528 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.716  | 99   | 543490   | 25.153 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.828  | 67   | 399833   | 25.770 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.028  | 132  | 404794   | 25.080 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.233  | 113  | 380988   | 23.339 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.628  | 128  | 205791   | 25.269 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.345  | 143  | 200694   | 24.349 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 9.892  | 165  | 362622   | 23.461 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.416 | 131  | 495526   | 23.165 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.557 | 166  | 1059171  | 24.588 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.798 | 160  | 1228148  | 24.553 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.404 | 143  | 164352   | 17.679 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.109 | 176  | 907391   | 24.692 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.245 | 200  | 114528   | 18.853 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 16.951 | 188  | 1135324  | 21.953 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.250 | 212  | 1368628  | 24.313 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.603 | 264  | 1056466  | 24.779 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.087  | 88   | 7325     | 1.009  | ng/uL# | 90       |
| 5) Pyridine                   | 3.487  | 79   | 72441    | 4.176  | ng/u1# | 29       |
| 6) Benzaldehyde               | 6.639  | 77   | 69373    | 6.826  | ng/u1  | 97       |
| 8) Phenol                     | 6.745  | 94   | 104669   | 4.671  | ng/u1  | 93       |
| 10) Bis(2-Chloroethyl)ether   | 6.922  | 93   | 89088    | 4.763  | ng/u1  | 99       |
| 12) 2-Chlorophenol            | 7.057  | 128  | 81468    | 4.791  | ng/u1  | 98       |
| 13) 2-Methylphenol            | 7.969  | 108  | 67031    | 4.085  | ng/u1  | 97       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.010  | 45   | 185399   | 5.033  | ng/u1  | 97       |
| 16) Acetophenone              | 8.310  | 105  | 130492   | 4.796  | ng/u1  | 94       |
| 17) N-Nitroso-di-n-propyla... | 8.298  | 70   | 74480    | 4.954  | ng/u1# | 97       |
| 18) 4-Methylphenol            | 8.298  | 108  | 77345    | 4.555  | ng/u1  | 93       |
| 19) Hexachloroethane          | 8.533  | 117  | 38477    | 4.711  | ng/u1  | 89       |
| 22) Nitrobenzene              | 8.669  | 77   | 115060   | 5.048  | ng/u1  | 96       |
| 23) Isophorone                | 9.222  | 82   | 181194   | 4.499  | ng/u1  | 98       |
| 25) 2-Nitrophenol             | 9.375  | 139  | 41888    | 4.649  | ng/u1  | 100      |
| 26) 2,4-Dimethylphenol        | 9.480  | 107  | 38700m   | 2.117  | ng/u1  |          |
| 27) Bis(2-Chloroethoxy)met... | 9.698  | 93   | 110575   | 4.522  | ng/u1  | 99       |
| 29) 2,4-Dichlorophenol        | 9.916  | 162  | 68944    | 4.477  | ng/u1  | 90       |
| 30) Naphthalene               | 10.280 | 128  | 263899   | 4.751  | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.439 | 127  | 94382    | 4.514  | ng/u1  | 98       |
| 33) Hexachlorobutadiene       | 10.580 | 225  | 48145    | 4.564  | ng/u1  | 97       |
| 34) Caprolactam               | 11.316 | 113  | 17444m   | 4.022  | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.598 | 107  | 70769    | 4.236  | ng/u1  | 96       |
| 36) 2-Methylnaphthalene       | 11.904 | 142  | 171860   | 4.672  | ng/u1  | 97       |

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 Quant Title : SVOA CALIBRATION  
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### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
 Supervised By :mohammad ahmed 06/07/2024

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.127 | 142  | 175977   | 4.785 | ng/ul  | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 12.280 | 216  | 84960    | 4.559 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 12.269 | 237  | 35774    | 3.163 | ng/ul# | 89       |
| 41) 2,4,6-Trichlorophenol     | 12.551 | 196  | 42222    | 3.894 | ng/ul  | 94       |
| 42) 2,4,5-Trichlorophenol     | 12.633 | 196  | 48490    | 4.121 | ng/ul  | 99       |
| 43) 1,1'-Biphenyl             | 12.945 | 154  | 220252   | 4.771 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 12.974 | 162  | 170828   | 4.722 | ng/ul  | 99       |
| 45) 2-Nitroaniline            | 13.221 | 65   | 52154    | 4.222 | ng/ul  | 99       |
| 47) Dimethylphthalate         | 13.610 | 163  | 206086   | 4.712 | ng/ul  | 100      |
| 48) 2,6-Dinitrotoluene        | 13.715 | 165  | 32408    | 3.851 | ng/ul# | 79       |
| 50) Acenaphthylene            | 13.827 | 152  | 273508   | 4.724 | ng/ul  | 98       |
| 51) 3-Nitroaniline            | 14.068 | 138  | 30197    | 3.908 | ng/ul  | 100      |
| 52) Acenaphthene              | 14.174 | 153  | 184503   | 4.776 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.245 | 184  | 18222m   | 4.756 | ng/ul  |          |
| 55) 4-Nitrophenol             | 14.415 | 109  | 37148    | 4.843 | ng/ul  | 88       |
| 56) Dibenzofuran              | 14.515 | 168  | 249303   | 4.785 | ng/ul  | 97       |
| 57) 2,4-Dinitrotoluene        | 14.504 | 165  | 48929    | 4.203 | ng/ul# | 79       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.762 | 232  | 35983    | 4.048 | ng/ul  | 96       |
| 59) Diethylphthalate          | 14.980 | 149  | 200911   | 4.587 | ng/ul  | 98       |
| 61) Fluorene                  | 15.162 | 166  | 199825   | 4.760 | ng/ul  | 100      |
| 62) 4-Chlorophenyl-phenyle... | 15.174 | 204  | 99205    | 4.761 | ng/ul  | 98       |
| 63) 4-Nitroaniline            | 15.239 | 138  | 30077m   | 4.688 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.257 | 198  | 27185    | 4.077 | ng/ul# | 61       |
| 67) N-Nitrosodiphenylamine    | 15.392 | 169  | 151176   | 4.484 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.062 | 248  | 55146    | 4.446 | ng/ul  | 98       |
| 69) Hexachlorobenzene         | 16.162 | 284  | 63945    | 4.662 | ng/ul  | 95       |
| 70) Atrazine                  | 16.368 | 200  | 51924    | 5.081 | ng/ul  | 96       |
| 71) Pentachlorophenol         | 16.533 | 266  | 47737    | 6.859 | ng/ul  | 97       |
| 72) Phenanthrene              | 16.898 | 178  | 291915   | 4.657 | ng/ul  | 99       |
| 74) Anthracene                | 16.986 | 178  | 261716   | 4.180 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 12.898 | 216  | 82686    | 4.482 | ng/uL  | 98       |
| 76) Pentachlorobenzene        | 14.427 | 250  | 85013    | 4.926 | ng/uL  | 99       |
| 77) Carbazole                 | 17.280 | 167  | 236566   | 4.428 | ng/ul  | 98       |
| 78) Di-n-butylphthalate       | 17.850 | 149  | 295199   | 4.202 | ng/ul  | 99       |
| 80) Fluoranthene              | 18.921 | 202  | 308014   | 4.513 | ng/ul  | 99       |
| 82) Pyrene                    | 19.280 | 202  | 326505   | 4.657 | ng/ul  | 98       |
| 83) Butylbenzylphthalate      | 20.215 | 149  | 109803   | 3.843 | ng/ul  | 93       |
| 84) 3,3'-Dichlorobenzidine    | 21.003 | 252  | 59988    | 3.355 | ng/ul  | 98       |
| 85) Benzo(a)anthracene        | 21.050 | 228  | 278152   | 4.450 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.003 | 149  | 162722   | 3.833 | ng/ul# | 98       |
| 87) Chrysene                  | 21.109 | 228  | 264158   | 4.569 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.038 | 149  | 250686   | 3.593 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 22.933 | 252  | 253192m  | 4.516 | ng/ul  |          |
| 91) Benzo(k)fluoranthene      | 22.991 | 252  | 255504   | 4.666 | ng/ul  | 97       |
| 93) Benzo(a)pyrene            | 23.656 | 252  | 221286   | 4.492 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.779 | 276  | 248277   | 4.615 | ng/ul  | 96       |
| 95) Dibenzo(a,h)anthracene    | 26.832 | 278  | 193296   | 4.543 | ng/ul  | 98       |
| 96) Benzo(g,h,i)perylene      | 27.715 | 276  | 222897   | 4.704 | ng/ul  | 99       |

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

