

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM101424\  
 Data File : BM048070.D  
 Acq On : 15 Oct 2024 21:05  
 Operator : RC/JU  
 Sample : P4350-14MSD  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EOAK1MSD

Quant Time: Oct 15 23:14:06 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM092724.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 10 05:10:14 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/16/2024  
 Supervised By :mohammad ahmed 10/17/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.781  | 152  | 271691   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.575 | 136  | 1121286  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.416 | 164  | 693941   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.162 | 188  | 1369592  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.386 | 240  | 1218750  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.380 | 264  | 1411183  | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.240  | 96   | 31174    | 3.708  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.652  | 84   | 458566   | 18.628 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.957  | 99   | 634362   | 24.692 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.110  | 67   | 373072m  | 20.464 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.316  | 132  | 531894   | 28.456 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.492  | 113  | 521150   | 27.284 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.939  | 128  | 265570   | 29.747 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.657  | 143  | 306640   | 35.842 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.198 | 165  | 545537   | 31.920 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.710 | 131  | 698335   | 26.430 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.827 | 166  | 1486911  | 29.554 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.110 | 160  | 1728087  | 28.970 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.633 | 143  | 216645   | 21.628 | ng/u1  | 0.01     |
| 60) Fluorene-d10              | 15.410 | 176  | 1254501  | 28.787 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.539 | 200  | 200881   | 25.064 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.257 | 188  | 1882488  | 27.953 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.551 | 212  | 2179139  | 31.504 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.180 | 264  | 2245549  | 30.669 | ng/u1  | 0.01     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.275  | 88   | 91184    | 9.930  | ng/uL# | 84       |
| 5) Pyridine                   | 3.669  | 79   | 654453   | 25.253 | ng/u1  | 86       |
| 6) Benzaldehyde               | 6.922  | 77   | 401936   | 28.768 | ng/u1  | 87       |
| 8) Phenol                     | 6.987  | 94   | 914782   | 33.464 | ng/u1# | 88       |
| 10) Bis(2-Chloroethyl)ether   | 7.204  | 93   | 673003   | 30.897 | ng/u1  | 89       |
| 12) 2-Chlorophenol            | 7.351  | 128  | 717874   | 36.253 | ng/u1# | 90       |
| 13) 2-Methylphenol            | 8.228  | 108  | 651290   | 34.168 | ng/u1  | 99       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.298  | 45   | 981402   | 23.934 | ng/u1# | 94       |
| 16) Acetophenone              | 8.604  | 105  | 1056891  | 32.337 | ng/u1# | 86       |
| 17) N-Nitroso-di-n-propyla... | 8.592  | 70   | 506015   | 29.231 | ng/u1# | 85       |
| 18) 4-Methylphenol            | 8.557  | 108  | 724213   | 33.809 | ng/u1  | 99       |
| 19) Hexachloroethane          | 8.857  | 117  | 294915   | 33.134 | ng/u1  | 84       |
| 22) Nitrobenzene              | 8.981  | 77   | 768688   | 30.310 | ng/u1# | 87       |
| 23) Isophorone                | 9.510  | 82   | 1505880  | 33.193 | ng/u1# | 93       |
| 25) 2-Nitrophenol             | 9.686  | 139  | 421610   | 43.076 | ng/u1# | 82       |
| 26) 2,4-Dimethylphenol        | 9.757  | 107  | 610361   | 29.104 | ng/u1  | 91       |
| 27) Bis(2-Chloroethoxy)met... | 9.986  | 93   | 917823   | 33.077 | ng/u1  | 98       |
| 29) 2,4-Dichlorophenol        | 10.228 | 162  | 693201   | 39.280 | ng/u1  | 98       |
| 30) Naphthalene               | 10.622 | 128  | 2261533  | 35.064 | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.733 | 127  | 708702   | 27.240 | ng/u1  | 100      |
| 33) Hexachlorobutadiene       | 10.910 | 225  | 431528   | 37.009 | ng/u1  | 97       |
| 34) Caprolactam               | 11.522 | 113  | 229446   | 40.653 | ng/u1# | 69       |
| 35) 4-Chloro-3-methylphenol   | 11.869 | 107  | 702820   | 38.473 | ng/u1  | 93       |
| 36) 2-Methylnaphthalene       | 12.239 | 142  | 1521104  | 37.118 | ng/u1  | 97       |

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|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.457 | 142  | 1526153  | 36.604 | ng/ul  | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.610 | 216  | 813216   | 35.999 | ng/ul# | 96       |
| 40) Hexachlorocyclopentadiene | 12.586 | 237  | 388891   | 28.463 | ng/ul  | 99       |
| 41) 2,4,6-Trichlorophenol     | 12.851 | 196  | 535519   | 40.973 | ng/ul  | 99       |
| 42) 2,4,5-Trichlorophenol     | 12.927 | 196  | 574564   | 40.200 | ng/ul  | 96       |
| 43) 1,1'-Biphenyl             | 13.251 | 154  | 1964108  | 35.351 | ng/ul# | 97       |
| 44) 2-Chloronaphthalene       | 13.292 | 162  | 1544715  | 35.948 | ng/ul  | 96       |
| 45) 2-Nitroaniline            | 13.498 | 65   | 438548m  | 32.149 | ng/ul  |          |
| 47) Dimethylphthalate         | 13.874 | 163  | 1892082  | 37.134 | ng/ul  | 98       |
| 48) 2,6-Dinitrotoluene        | 13.998 | 165  | 401797   | 44.902 | ng/ul# | 77       |
| 50) Acenaphthylene            | 14.139 | 152  | 2434699  | 36.191 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.327 | 138  | 427045   | 39.431 | ng/ul  | 81       |
| 52) Acenaphthene              | 14.480 | 153  | 1629190  | 34.259 | ng/ul  | 97       |
| 53) 2,4-Dinitrophenol         | 14.539 | 184  | 241258   | 43.633 | ng/ul# | 68       |
| 55) 4-Nitrophenol             | 14.645 | 109  | 251229   | 29.872 | ng/ul  | 84       |
| 56) Dibenzofuran              | 14.816 | 168  | 2261703  | 35.332 | ng/ul  | 97       |
| 57) 2,4-Dinitrotoluene        | 14.786 | 165  | 569162   | 42.349 | ng/ul# | 75       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.051 | 232  | 449826   | 39.927 | ng/ul# | 93       |
| 59) Diethylphthalate          | 15.239 | 149  | 1894268  | 37.157 | ng/ul  | 98       |
| 61) Fluorene                  | 15.468 | 166  | 1757327  | 32.906 | ng/ul  | 100      |
| 62) 4-Chlorophenyl-phenyle... | 15.463 | 204  | 875933   | 34.711 | ng/ul  | 94       |
| 63) 4-Nitroaniline            | 15.492 | 138  | 443383   | 42.154 | ng/ul  | 87       |
| 66) 4,6-Dinitro-2-methylph... | 15.551 | 198  | 350924   | 39.515 | ng/ul# | 83       |
| 67) N-Nitrosodiphenylamine    | 15.674 | 169  | 1522181  | 35.666 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.351 | 248  | 549819   | 38.946 | ng/ul  | 97       |
| 69) Hexachlorobenzene         | 16.474 | 284  | 642002   | 39.077 | ng/ul  | 91       |
| 70) Atrazine                  | 16.627 | 200  | 367857   | 25.893 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 16.815 | 266  | 387271   | 37.071 | ng/ul  | 100      |
| 72) Phenanthrene              | 17.204 | 178  | 2780416  | 34.618 | ng/ul  | 99       |
| 74) Anthracene                | 17.292 | 178  | 2784231  | 33.988 | ng/ul  | 100      |
| 75) 1,2,3,4-Tetrachloroben... | 13.216 | 216  | 788040   | 34.751 | ng/uL  | 99       |
| 76) Pentachlorobenzene        | 14.739 | 250  | 761915   | 34.422 | ng/uL  | 98       |
| 77) Carbazole                 | 17.562 | 167  | 2620530  | 35.292 | ng/ul  | 98       |
| 78) Di-n-butylphthalate       | 18.121 | 149  | 3384289  | 40.939 | ng/ul# | 98       |
| 80) Fluoranthene              | 19.215 | 202  | 3202025  | 39.305 | ng/ul  | 99       |
| 82) Pyrene                    | 19.580 | 202  | 3408324  | 37.590 | ng/ul  | 95       |
| 83) Butylbenzylphthalate      | 20.468 | 149  | 1536699  | 47.939 | ng/ul# | 84       |
| 84) 3,3'-Dichlorobenzidine    | 21.292 | 252  | 1008695  | 39.169 | ng/ul  | 98       |
| 85) Benzo(a)anthracene        | 21.368 | 228  | 3283632  | 38.480 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 2177777  | 45.251 | ng/ul  | 97       |
| 87) Chrysene                  | 21.433 | 228  | 3067189  | 36.870 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.415 | 149  | 3973196  | 43.651 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.438 | 252  | 3333580  | 37.879 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.497 | 252  | 3294765  | 36.614 | ng/ul  | 99       |
| 93) Benzo(a)pyrene            | 24.244 | 252  | 3020146  | 36.135 | ng/ul  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.768 | 276  | 3966450  | 37.032 | ng/ul  | 98       |
| 95) Dibenzo(a,h)anthracene    | 27.821 | 278  | 3213300  | 36.607 | ng/ul  | 98       |
| 96) Benzo(g,h,i)perylene      | 28.826 | 276  | 3089843  | 36.819 | ng/ul  | 97       |

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

