

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120624\  
 Data File : BN035490.D  
 Acq On : 07 Dec 2024 15:03  
 Operator : RC/JU  
 Sample : P5114-06MSD  
 Misc :  
 ALS Vial : 73 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 E1PK0MSD

Quant Time: Dec 09 00:28:29 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN120224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Dec 02 18:25:21 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/09/2024  
 Supervised By :mohammad ahmed 12/13/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.293  | 152  | 94440    | 20.000 | ng/u1  | -0.01    |
| 20) Naphthalene-d8            | 10.046 | 136  | 419620   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 13.957 | 164  | 319201   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 16.722 | 188  | 700250   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 20.975 | 240  | 680700   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.645 | 264  | 828369   | 20.000 | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 2.958  | 96   | 9156m    | 4.581  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.340  | 84   | 47156    | 8.951  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.499  | 99   | 51499    | 7.655  | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.658  | 67   | 126808   | 33.798 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 6.834  | 132  | 160528   | 28.157 | ng/u1  | -0.01    |
| 15) 4-Methylphenol-d8         | 8.016  | 113  | 108240   | 18.461 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.434  | 128  | 98505    | 36.132 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.146  | 143  | 116643   | 36.965 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 9.681  | 165  | 222063   | 32.198 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.193 | 131  | 229959   | 27.003 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.387 | 166  | 814295   | 35.528 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.640 | 160  | 816541   | 32.350 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.193 | 143  | 34357    | 9.103  | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 14.963 | 176  | 659406   | 33.315 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.104 | 200  | 152577   | 41.315 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 16.822 | 188  | 1082338  | 35.044 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.145 | 212  | 1301672  | 36.206 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.469 | 264  | 1464541  | 36.511 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 2.993  | 88   | 10427    | 4.653  | ng/uL# | 90       |
| 5) Pyridine                   | 3.358  | 79   | 53773    | 10.179 | ng/u1  | 98       |
| 6) Benzaldehyde               | 6.458  | 77   | 78448    | 21.618 | ng/u1  | 99       |
| 8) Phenol                     | 6.522  | 94   | 58269    | 8.362  | ng/u1  | 97       |
| 10) Bis(2-Chloroethyl)ether   | 6.746  | 93   | 182207   | 33.402 | ng/u1  | 97       |
| 12) 2-Chlorophenol            | 6.869  | 128  | 169638   | 28.592 | ng/u1  | 98       |
| 13) 2-Methylphenol            | 7.746  | 108  | 124672   | 23.044 | ng/u1  | 99       |
| 14) 2,2'-oxybis(1-Chloropr... | 7.822  | 45   | 144007   | 33.401 | ng/u1  | 99       |
| 16) Acetophenone              | 8.111  | 105  | 316745   | 34.208 | ng/u1  | 98       |
| 17) N-Nitroso-di-n-propyla... | 8.105  | 70   | 149979   | 34.070 | ng/u1  | 99       |
| 18) 4-Methylphenol            | 8.075  | 108  | 120704   | 20.079 | ng/u1  | 100      |
| 19) Hexachloroethane          | 8.346  | 117  | 69221    | 27.307 | ng/u1  | 96       |
| 22) Nitrobenzene              | 8.475  | 77   | 240282   | 35.089 | ng/u1  | 97       |
| 23) Isophorone                | 8.999  | 82   | 456393   | 33.260 | ng/u1  | 99       |
| 25) 2-Nitrophenol             | 9.175  | 139  | 128972   | 36.075 | ng/u1  | 99       |
| 26) 2,4-Dimethylphenol        | 9.258  | 107  | 176400   | 24.616 | ng/u1  | 99       |
| 27) Bis(2-Chloroethoxy)met... | 9.493  | 93   | 267955   | 32.055 | ng/u1  | 97       |
| 29) 2,4-Dichlorophenol        | 9.705  | 162  | 227165   | 32.552 | ng/u1  | 97       |
| 30) Naphthalene               | 10.093 | 128  | 660847   | 30.989 | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.216 | 127  | 97067    | 11.899 | ng/u1  | 100      |
| 33) Hexachlorobutadiene       | 10.387 | 225  | 146319   | 29.709 | ng/u1  | 99       |
| 34) Caprolactam               | 10.999 | 113  | 8889m    | 4.408  | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.357 | 107  | 232947   | 32.045 | ng/u1  | 97       |
| 36) 2-Methylnaphthalene       | 11.722 | 142  | 515559   | 32.465 | ng/u1  | 99       |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 11.946 | 142  | 506752   | 31.128 | ng/ul  | 96       |
| 39) 1,2,4,5-Tetrachloroben... | 12.104 | 216  | 305974   | 32.526 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 12.087 | 237  | 128780   | 27.250 | ng/ul  | 93       |
| 41) 2,4,6-Trichlorophenol     | 12.357 | 196  | 206960   | 33.926 | ng/ul  | 94       |
| 42) 2,4,5-Trichlorophenol     | 12.428 | 196  | 240637   | 35.405 | ng/ul  | 100      |
| 43) 1,1'-Biphenyl             | 12.775 | 154  | 724367   | 32.882 | ng/ul  | 96       |
| 44) 2-Chloronaphthalene       | 12.810 | 162  | 576544   | 32.720 | ng/ul  | 99       |
| 45) 2-Nitroaniline            | 13.028 | 65   | 154747   | 44.683 | ng/ul  | 99       |
| 47) Dimethylphthalate         | 13.434 | 163  | 827007   | 36.068 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 13.551 | 165  | 169269   | 44.292 | ng/ul  | 98       |
| 50) Acenaphthylene            | 13.669 | 152  | 891644   | 33.235 | ng/ul  | 100      |
| 51) 3-Nitroaniline            | 13.881 | 138  | 136746   | 34.549 | ng/ul  | 98       |
| 52) Acenaphthene              | 14.022 | 153  | 647436   | 33.529 | ng/ul  | 100      |
| 53) 2,4-Dinitrophenol         | 14.087 | 184  | 110132   | 41.257 | ng/ul  | 98       |
| 55) 4-Nitrophenol             | 14.204 | 109  | 34008    | 9.541  | ng/ul  | 97       |
| 56) Dibenzofuran              | 14.363 | 168  | 930768   | 33.901 | ng/ul  | 97       |
| 57) 2,4-Dinitrotoluene        | 14.346 | 165  | 254129   | 41.905 | ng/ul  | 96       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.604 | 232  | 203279   | 34.332 | ng/ul# | 95       |
| 59) Diethylphthalate          | 14.828 | 149  | 835812   | 37.297 | ng/ul  | 100      |
| 61) Fluorene                  | 15.022 | 166  | 743380   | 33.610 | ng/ul  | 98       |
| 62) 4-Chlorophenyl-phenyle... | 15.028 | 204  | 382339   | 33.831 | ng/ul  | 99       |
| 63) 4-Nitroaniline            | 15.057 | 138  | 167275m  | 43.577 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 167478   | 41.856 | ng/ul# | 99       |
| 67) N-Nitrosodiphenylamine    | 15.251 | 169  | 665824   | 35.790 | ng/ul  | 100      |
| 68) 4-Bromophenyl-phenylether | 15.928 | 248  | 253355   | 35.776 | ng/ul  | 99       |
| 69) Hexachlorobenzene         | 16.028 | 284  | 302210   | 35.950 | ng/ul  | 98       |
| 70) Atrazine                  | 16.222 | 200  | 1413     | 0.213  | ng/ul# | 77       |
| 71) Pentachlorophenol         | 16.381 | 266  | 191865   | 35.950 | ng/ul  | 97       |
| 72) Phenanthrene              | 16.769 | 178  | 1275625  | 35.382 | ng/ul  | 98       |
| 74) Anthracene                | 16.857 | 178  | 1273559  | 34.986 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 12.728 | 216  | 307309   | 33.099 | ng/uL  | 100      |
| 76) Pentachlorobenzene        | 14.281 | 250  | 336900   | 35.249 | ng/uL  | 99       |
| 77) Carbazole                 | 17.140 | 167  | 1186552  | 39.172 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 17.734 | 149  | 1375172  | 39.000 | ng/ul  | 100      |
| 80) Fluoranthene              | 18.804 | 202  | 1551346  | 36.766 | ng/ul  | 99       |
| 82) Pyrene                    | 19.175 | 202  | 1631888  | 36.063 | ng/ul  | 98       |
| 83) Butylbenzylphthalate      | 20.128 | 149  | 579521   | 45.439 | ng/ul  | 99       |
| 84) 3,3'-Dichlorobenzidine    | 20.904 | 252  | 418648   | 34.495 | ng/ul  | 100      |
| 85) Benzo(a)anthracene        | 20.963 | 228  | 1654172  | 36.198 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 20.933 | 149  | 894305   | 44.471 | ng/ul  | 99       |
| 87) Chrysene                  | 21.016 | 228  | 1606558  | 36.487 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 21.963 | 149  | 1594519  | 42.346 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 22.816 | 252  | 1793586  | 37.564 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 22.875 | 252  | 1716019  | 35.097 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 23.527 | 252  | 1623000  | 36.217 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.592 | 276  | 2019432  | 37.778 | ng/ul  | 97       |
| 95) Dibenzo(a,h)anthracene    | 26.651 | 278  | 1593476  | 36.791 | ng/ul  | 99       |
| 96) Benzo(g,h,i)perylene      | 27.504 | 276  | 1510310  | 37.226 | ng/ul  | 98       |

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

