

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP092024\  
 Data File : BP021967.D  
 Acq On : 20 Sep 2024 14:47  
 Operator : RC/JU  
 Sample : P2403-02  
 Misc : LOQ--SOIL 10 ppm  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2024

Quant Time: Sep 20 15:19:22 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP091924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 20 01:22:00 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 09/20/2024  
 Supervised By :mohammad ahmed 09/24/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.711  | 152  | 83571    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.469 | 136  | 314331   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.322 | 164  | 224699   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.122 | 188  | 536509   | 20.000  | ng    | -0.02    |
| 76) Chrysene-d12              | 21.557 | 240  | 642535   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.857 | 264  | 758204   | 20.000  | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.328  | 112  | 446625   | 100.433 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.893  | 99   | 559235   | 96.871  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.846  | 82   | 433470   | 72.969  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 15.840 | 330  | 439411   | 105.484 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 12.934 | 172  | 1131618  | 73.516  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.845 | 244  | 2321473  | 67.869  | ng    | -0.01    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.258  | 88   | 16376    | 8.868   | ng    | 96       |
| 3) Pyridine                   | 3.658  | 79   | 36267    | 7.364   | ng    | 96       |
| 4) n-Nitrosodimethylamine     | 3.564  | 42   | 21964    | 8.454   | ng    | # 99     |
| 6) Aniline                    | 7.046  | 93   | 50503    | 9.955   | ng    | 98       |
| 8) 2-Chlorophenol             | 7.281  | 128  | 41203    | 8.665   | ng    | 94       |
| 9) Benzaldehyde               | 6.864  | 77   | 37229m   | 12.333  | ng    |          |
| 10) Phenol                    | 6.916  | 94   | 48198    | 8.406   | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 7.134  | 93   | 36720    | 8.502   | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 7.605  | 146  | 49730    | 8.284   | ng    | 98       |
| 13) 1,4-Dichlorobenzene       | 7.746  | 146  | 52328    | 8.595   | ng    | 97       |
| 14) 1,2-Dichlorobenzene       | 8.058  | 146  | 49328    | 8.441   | ng    | 99       |
| 15) Benzyl Alcohol            | 7.946  | 79   | 36761    | 8.303   | ng    | 96       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.228  | 45   | 42009    | 9.119   | ng    | 97       |
| 17) 2-Methylphenol            | 8.146  | 107  | 31515    | 8.136   | ng    | 96       |
| 18) Hexachloroethane          | 8.781  | 117  | 19000    | 8.487   | ng    | 94       |
| 19) n-Nitroso-di-n-propyla... | 8.505  | 70   | 32097    | 8.945   | ng    | 98       |
| 20) 3+4-Methylphenols         | 8.469  | 107  | 43979    | 8.043   | ng    | 96       |
| 22) Acetophenone              | 8.516  | 105  | 68872    | 8.982   | ng    | # 95     |
| 24) Nitrobenzene              | 8.893  | 77   | 53196    | 8.818   | ng    | 98       |
| 25) Isophorone                | 9.416  | 82   | 83056    | 8.480   | ng    | 99       |
| 26) 2-Nitrophenol             | 9.593  | 139  | 19956    | 7.566   | ng    | 95       |
| 27) 2,4-Dimethylphenol        | 9.658  | 122  | 25090    | 8.215   | ng    | 97       |
| 28) bis(2-Chloroethoxy)met... | 9.887  | 93   | 50878    | 8.664   | ng    | 96       |
| 29) 2,4-Dichlorophenol        | 10.128 | 162  | 41493    | 8.004   | ng    | 95       |
| 30) 1,2,4-Trichlorobenzene    | 10.340 | 180  | 52881    | 8.189   | ng    | 95       |
| 31) Naphthalene               | 10.522 | 128  | 134875   | 8.599   | ng    | 98       |
| 32) Benzoic acid              | 9.734  | 122  | 22066m   | 6.180   | ng    |          |
| 33) 4-Chloroaniline           | 10.628 | 127  | 50835    | 8.986   | ng    | 94       |
| 34) Hexachlorobutadiene       | 10.810 | 225  | 40377    | 7.993   | ng    | 99       |
| 35) Caprolactam               | 11.399 | 113  | 11025    | 7.146   | ng    | 97       |
| 36) 4-Chloro-3-methylphenol   | 11.752 | 107  | 44268    | 7.959   | ng    | 95       |
| 37) 2-Methylnaphthalene       | 12.128 | 142  | 95161    | 8.293   | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.346 | 142  | 89973    | 7.941   | ng    | 96       |
| 40) 1,2,4,5-Tetrachloroben... | 12.504 | 216  | 69738    | 8.871   | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.487 | 237  | 28985    | 9.923   | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 12.740 | 196  | 37333    | 7.737   | ng    | 96       |

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Manual Integrations  
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Reviewed By :Jagrut Upadhyay 09/20/2024  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.816 | 196  | 41502    | 7.667  | ng    | 95       |
| 46) 1,1'-Biphenyl             | 13.151 | 154  | 136298   | 8.896  | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.187 | 162  | 105038   | 8.479  | ng    | 97       |
| 48) 2-Nitroaniline            | 13.393 | 65   | 25137    | 7.431  | ng    | 93       |
| 49) Acenaphthylene            | 14.040 | 152  | 160008   | 9.153  | ng    | 99       |
| 50) Dimethylphthalate         | 13.775 | 163  | 140814   | 8.641  | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 13.893 | 165  | 28189    | 7.762  | ng    | 90       |
| 52) Acenaphthene              | 14.387 | 154  | 94674    | 8.322  | ng    | 99       |
| 53) 3-Nitroaniline            | 14.222 | 138  | 25002    | 7.725  | ng    | 100      |
| 54) 2,4-Dinitrophenol         | 14.434 | 184  | 13280    | 6.241  | ng    | 96       |
| 55) Dibenzofuran              | 14.728 | 168  | 171431   | 8.965  | ng    | 97       |
| 56) 4-Nitrophenol             | 14.551 | 139  | 20119    | 7.142  | ng    | 98       |
| 57) 2,4-Dinitrotoluene        | 14.687 | 165  | 38078    | 7.417  | ng    | # 97     |
| 58) Fluorene                  | 15.381 | 166  | 134593   | 8.428  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 14.957 | 232  | 43153    | 8.261  | ng    | 100      |
| 60) Diethylphthalate          | 15.163 | 149  | 137325   | 8.292  | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.381 | 204  | 77490    | 8.335  | ng    | 96       |
| 62) 4-Nitroaniline            | 15.398 | 138  | 27777    | 7.805  | ng    | 94       |
| 63) Azobenzene                | 15.681 | 77   | 119440   | 8.715  | ng    | 100      |
| 65) 4,6-Dinitro-2-methylph... | 15.463 | 198  | 22458    | 7.222  | ng    | 87       |
| 66) n-Nitrosodiphenylamine    | 15.598 | 169  | 119012   | 8.909  | ng    | 97       |
| 67) 4-Bromophenyl-phenylether | 16.298 | 248  | 52733    | 8.432  | ng    | 95       |
| 68) Hexachlorobenzene         | 16.410 | 284  | 66597    | 8.541  | ng    | 95       |
| 69) Atrazine                  | 16.581 | 200  | 49243    | 10.288 | ng    | 96       |
| 70) Pentachlorophenol         | 16.763 | 266  | 36482    | 6.954  | ng    | 98       |
| 71) Phenanthrene              | 17.163 | 178  | 228640   | 8.878  | ng    | 99       |
| 72) Anthracene                | 17.263 | 178  | 224202   | 8.993  | ng    | 99       |
| 73) Carbazole                 | 17.539 | 167  | 207054   | 8.599  | ng    | 100      |
| 74) Di-n-butylphthalate       | 18.134 | 149  | 218659   | 7.732  | ng    | 99       |
| 75) Fluoranthene              | 19.251 | 202  | 297451   | 8.275  | ng    | 99       |
| 77) Benzidine                 | 19.445 | 184  | 134882   | 17.178 | ng    | 98       |
| 78) Pyrene                    | 19.628 | 202  | 309442   | 7.961  | ng    | 100      |
| 80) Butylbenzylphthalate      | 20.580 | 149  | 102767   | 7.413  | ng    | 97       |
| 81) Benzo(a)anthracene        | 21.539 | 228  | 357710   | 8.664  | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 21.463 | 252  | 123492   | 8.244  | ng    | 98       |
| 83) Chrysene                  | 21.604 | 228  | 337471   | 8.681  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.480 | 149  | 150934   | 7.418  | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.733 | 149  | 236795   | 6.852  | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 28.574 | 276  | 434760m  | 8.621  | ng    |          |
| 88) Benzo(b)fluoranthene      | 23.798 | 252  | 360531   | 8.040  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.869 | 252  | 369409   | 8.705  | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.692 | 252  | 330784   | 8.563  | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 28.657 | 278  | 354436   | 8.516  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 29.727 | 276  | 338823   | 7.947  | ng    | 98       |

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

