

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050619\  
 Data File : BM020144.D  
 Acq On : 06 May 2019 20:14  
 Operator : JU/SJ  
 Sample : K2673-16MS  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SP-02-COMPMS

Manual Integrations  
 APPROVED

mohammad  
 5/7/2019 3:11:45 PM

Quant Time: May 07 07:01:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 03:58:37 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.79  | 152  | 127946   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.59 | 136  | 466050   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.44 | 164  | 278626   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.19 | 188  | 662423   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.37 | 240  | 660031   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 23.67 | 264  | 769183   | 20.00 | ng    | 0.02     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.37  | 112 | 1224672 | 156.46 | ng | 0.00 |
| 7) Phenol-d6             | 6.96  | 99  | 1741125 | 162.82 | ng | 0.01 |
| 23) Nitrobenzene-d5      | 8.96  | 82  | 1210917 | 102.58 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.93 | 330 | 733601  | 169.63 | ng | 0.01 |
| 45) 2-Fluorobiphenyl     | 13.06 | 172 | 2111782 | 93.25  | ng | 0.00 |
| 79) Terphenyl-d14        | 19.81 | 244 | 3309802 | 87.47  | ng | 0.00 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.31  | 88  | 129715  | 33.789 | ng | 95     |
| 3) Pyridine                    | 3.71  | 79  | 369400  | 37.624 | ng | 98     |
| 4) n-Nitrosodimethylamine      | 3.63  | 42  | 136119  | 43.235 | ng | # 85   |
| 6) Aniline                     | 7.13  | 93  | 311422  | 23.135 | ng | 99     |
| 8) 2-Chlorophenol              | 7.36  | 128 | 399862  | 46.916 | ng | 99     |
| 9) Benzaldehyde                | 6.95  | 77  | 301819  | 37.292 | ng | 96     |
| 10) Phenol                     | 6.99  | 94  | 566189  | 49.184 | ng | 93     |
| 11) bis(2-Chloroethyl)ether    | 7.23  | 93  | 405550  | 48.471 | ng | 97     |
| 12) 1,3-Dichlorobenzene        | 7.68  | 146 | 431700  | 43.535 | ng | 97     |
| 13) 1,4-Dichlorobenzene        | 7.83  | 146 | 435098  | 43.434 | ng | 93     |
| 14) 1,2-Dichlorobenzene        | 8.15  | 146 | 421096  | 44.123 | ng | 98     |
| 15) Benzyl Alcohol             | 8.04  | 79  | 453515  | 43.983 | ng | 98     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.32  | 45  | 307286  | 44.291 | ng | 98     |
| 17) 2-Methylphenol             | 8.23  | 107 | 352422  | 47.557 | ng | 97     |
| 18) Hexachloroethane           | 8.86  | 117 | 94456   | 22.614 | ng | 97     |
| 19) n-Nitroso-di-n-propylamine | 8.60  | 70  | 393806  | 43.045 | ng | 95     |
| 20) 3+4-Methylphenols          | 8.56  | 107 | 481944  | 48.934 | ng | 98     |
| 22) Acetophenone               | 8.62  | 105 | 640955  | 50.321 | ng | # 97   |
| 24) Nitrobenzene               | 9.00  | 77  | 560345  | 45.782 | ng | 96     |
| 25) Isophorone                 | 9.52  | 82  | 1001050 | 49.175 | ng | 99     |
| 26) 2-Nitrophenol              | 9.71  | 139 | 130366  | 35.281 | ng | 93     |
| 27) 2,4-Dimethylphenol         | 9.76  | 122 | 358815  | 58.327 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 10.00 | 93  | 543746  | 49.043 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 10.24 | 162 | 406698  | 52.428 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene     | 10.45 | 180 | 464812  | 48.697 | ng | 98     |
| 31) Naphthalene                | 10.64 | 128 | 1194978 | 49.410 | ng | 99     |
| 32) Benzoic acid               | 9.83  | 122 | 25885   | 11.710 | ng | 94     |
| 33) 4-Chloroaniline            | 10.76 | 127 | 311238  | 31.267 | ng | 98     |
| 34) Hexachlorobutadiene        | 10.90 | 225 | 300963  | 44.573 | ng | 98     |
| 35) Caprolactam                | 11.56 | 113 | 120711m | 52.042 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 11.88 | 107 | 448316  | 49.180 | ng | 95     |
| 37) 2-Methylnaphthalene        | 12.25 | 142 | 867518  | 49.202 | ng | 97     |
| 38) 1-Methylnaphthalene        | 12.47 | 142 | 824417  | 47.816 | ng | 99     |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.62 | 216 | 542890  | 49.802 | ng | 98     |

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050619\  
 Data File : BM020144.D  
 Acq On : 06 May 2019 20:14  
 Operator : JU/SJ  
 Sample : K2673-16MS  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SP-02-COMPMS

Manual Integrations  
 APPROVED

mohammad  
 5/7/2019 3:11:45 PM

Quant Time: May 07 07:01:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 03:58:37 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.58 | 237  | 9912     | 1.544   | nq    | 98       |
| 43) 2,4,6-Trichlorophenol      | 12.86 | 196  | 358864   | 57.925  | nq    | 97       |
| 44) 2,4,5-Trichlorophenol      | 12.94 | 196  | 382201   | 55.223  | nq    | 97       |
| 46) 1,1'-Biphenyl              | 13.27 | 154  | 1120029  | 48.838  | nq    | 99       |
| 47) 2-Chloronaphthalene        | 13.31 | 162  | 907894   | 49.583  | nq    | 99       |
| 48) 2-Nitroaniline             | 13.53 | 65   | 383384   | 58.811  | nq    | 90       |
| 49) Acenaphthylene             | 14.16 | 152  | 1491259  | 50.889  | nq    | 99       |
| 50) Dimethylphthalate          | 13.90 | 163  | 1555179  | 65.672  | nq    | 99       |
| 51) 2,6-Dinitrotoluene         | 14.02 | 165  | 197693   | 39.636  | nq    | 94       |
| 52) Acenaphthene               | 14.50 | 154  | 818257   | 48.692  | nq    | 98       |
| 53) 3-Nitroaniline             | 14.36 | 138  | 229216   | 49.515  | nq    | 97       |
| 54) 2,4-Dinitrophenol          | 14.56 | 184  | 2455     | 9.350   | nq    | 94       |
| 55) Dibenzofuran               | 14.84 | 168  | 1360639  | 48.002  | nq    | 98       |
| 56) 4-Nitrophenol              | 14.66 | 139  | 389052   | 98.502  | nq    | 91       |
| 57) 2,4-Dinitrotoluene         | 14.81 | 165  | 245849   | 36.275  | nq    | 99       |
| 58) Fluorene                   | 15.49 | 166  | 1099993  | 47.252  | nq    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.06 | 232  | 359989   | 54.734  | nq    | 97       |
| 60) Diethylphthalate           | 15.26 | 149  | 1120292  | 46.956  | nq    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.48 | 204  | 618886   | 46.920  | nq    | 97       |
| 62) 4-Nitroaniline             | 15.52 | 138  | 255125   | 49.939  | nq    | 95       |
| 63) Azobenzene                 | 15.77 | 77   | 1226416  | 43.573  | nq    | 99       |
| 65) 4,6-Dinitro-2-methylphenol | 15.57 | 198  | 2553     | 7.811   | nq    | # 53     |
| 66) n-Nitrosodiphenylamine     | 15.70 | 169  | 964275   | 49.470  | nq    | 99       |
| 67) 4-Bromophenyl-phenylether  | 16.37 | 248  | 387383   | 47.690  | nq    | 97       |
| 68) Hexachlorobenzene          | 16.48 | 284  | 439300   | 46.996  | nq    | 96       |
| 69) Atrazine                   | 16.65 | 200  | 314302   | 41.261  | nq    | 98       |
| 70) Pentachlorophenol          | 16.83 | 266  | 563225   | 105.310 | nq    | 99       |
| 71) Phenanthrene               | 17.23 | 178  | 1849621  | 50.583  | nq    | 99       |
| 72) Anthracene                 | 17.32 | 178  | 1896864  | 51.884  | nq    | 99       |
| 73) Carbazole                  | 17.59 | 167  | 1558778  | 47.252  | nq    | 99       |
| 74) Di-n-butylphthalate        | 18.14 | 149  | 1855735  | 46.744  | nq    | 98       |
| 75) Fluoranthene               | 19.24 | 202  | 2653763  | 57.359  | nq    | 100      |
| 78) Pyrene                     | 19.61 | 202  | 2718811  | 61.354  | nq    | 99       |
| 80) Butylbenzylphthalate       | 20.50 | 149  | 862280   | 53.509  | nq    | 97       |
| 81) Benzo(a)anthracene         | 21.36 | 228  | 2568273  | 55.485  | nq    | 98       |
| 82) 3,3'-Dichlorobenzidine     | 21.29 | 252  | 374971   | 21.225  | nq    | 99       |
| 83) Chrysene                   | 21.41 | 228  | 2502704  | 55.750  | nq    | 98       |
| 84) Bis(2-ethylhexyl)phthalate | 21.28 | 149  | 8508028  | 340.241 | nq    | 95       |
| 85) Di-n-octyl phthalate       | 22.17 | 149  | 3413263  | 82.126  | nq    | # 96     |
| 86) Indeno(1,2,3-cd)pyrene     | 26.03 | 276  | 3062324m | 57.350  | nq    |          |
| 88) Benzo(b)fluoranthene       | 22.98 | 252  | 3019871  | 59.455  | nq    | 98       |
| 89) Benzo(k)fluoranthene       | 23.03 | 252  | 2483278  | 53.597  | nq    | 100      |
| 90) Benzo(a)pyrene             | 23.58 | 252  | 2732579  | 59.228  | nq    | 98       |
| 91) Dibenzo(a,h)anthracene     | 26.04 | 278  | 2365212  | 49.296  | nq    | 99       |
| 92) Benzo(g,h,i)perylene       | 26.75 | 276  | 2573756  | 56.501  | nq    | 98       |

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

