Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121819\
Data File : BF118259.D
Acq On : 18 Dec 2019 15:20
Operator : JU
Sample : K6324-07MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EP-15MSD

**Manual Integrations APPROVED**
mohammad
12/19/2019 11:16:46 AM

Quant Time: Dec 19 03:27:48 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 06 17:34:43 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.86 | 152 | 103801 | 20.00 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.15 | 136 | 407529 | 20.00 | ng | | -0.01 |
| 39) Acenaphthene-d10 | 9.91 | 164 | 219519 | 20.00 | ng | | -0.01 |
| 64) Phenanthrene-d10 | 11.40 | 188 | 421259 | 20.00 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.06 | 240 | 311412 | 20.00 | ng | | 0.00 |
| 87) Perylene-d12 | 15.55 | 264 | 287622 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.48 | 112 | 568751 | 95.97 | ng | | 0.00 |
| 7) Phenol-d6 | 6.50 | 99 | 716238 | 99.92 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.43 | 82 | 432703 | 59.73 | ng | | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.70 | 330 | 257655 | 96.62 | ng | | -0.01 |
| 45) 2-Fluorobiphenyl | 9.23 | 172 | 917120 | 63.57 | ng | | -0.01 |
| 79) Terphenyl-d14 | 12.99 | 244 | 1157540 | 63.92 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.64 | 88 | 80512 | 32.219 | ng | | 99 |
| 3) Pyridine | 3.40 | 79 | 189457 | 29.386 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.35 | 42 | 95116 | 34.294 | ng | # | 98 |
| 6) Aniline | 6.52 | 93 | 164256 | 17.913 | ng | | 96 |
| 8) 2-Chlorophenol | 6.65 | 128 | 254074 | 38.020 | ng | | 96 |
| 9) Benzaldehyde | 6.41 | 77 | 74063 | 15.308 | ng | | 99 |
| 10) Phenol | 6.51 | 94 | 303532 | 37.130 | ng | | 98 |
| 11) bis(2-Chloroethyl)ether | 6.59 | 93 | 215081 | 36.377 | ng | | 98 |
| 12) 1,3-Dichlorobenzene | 6.80 | 146 | 273453 | 35.029 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.88 | 146 | 281315 | 35.787 | ng | | 97 |
| 14) 1,2-Dichlorobenzene | 7.03 | 146 | 264990 | 35.896 | ng | | 99 |
| 15) Benzyl Alcohol | 7.00 | 79 | 208350 | 37.235 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.13 | 45 | 248823 | 35.001 | ng | | 97 |
| 17) 2-Methylphenol | 7.12 | 107 | 198735 | 37.391 | ng | | 99 |
| 18) Hexachloroethane | 7.37 | 117 | 100822 | 34.808 | ng | | 97 |
| 19) n-Nitroso-di-n-propylamine | 7.27 | 70 | 162473 | 37.300 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.27 | 107 | 256840 | 38.471 | ng | # | 85 |
| 22) Acetophenone | 7.27 | 105 | 345466 | 35.285 | ng | | 97 |
| 24) Nitrobenzene | 7.45 | 77 | 248651 | 34.937 | ng | | 98 |
| 25) Isophorone | 7.68 | 82 | 440250 | 35.851 | ng | | 97 |
| 26) 2-Nitrophenol | 7.76 | 139 | 138654 | 36.449 | ng | | 95 |
| 27) 2,4-Dimethylphenol | 7.80 | 122 | 223148 | 43.978 | ng | | 99 |
| 28) bis(2-Chloroethoxy)methane | 7.89 | 93 | 276892 | 34.507 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.01 | 162 | 215610 | 36.450 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.09 | 180 | 234606 | 33.937 | ng | | 99 |
| 31) Naphthalene | 8.17 | 128 | 737951 | 36.056 | ng | | 100 |
| 32) Benzoic acid | 7.93 | 122 | 133480 | 29.135 | ng | | 97 |
| 33) 4-Chloroaniline | 8.22 | 127 | 81291 | 9.199 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.29 | 225 | 137203 | 33.098 | ng | | 98 |
| 35) Caprolactam | 8.59 | 113 | 65024m | 35.645 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.71 | 107 | 230927 | 37.097 | ng | | 98 |
| 37) 2-Methylnaphthalene | 8.86 | 142 | 513449 | 37.055 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.96 | 142 | 473721 | 36.411 | ng | | 98 |
| 40) 1,2,4,5-Tetrachlorobenzene | 9.03 | 216 | 227681 | 34.238 | ng | | 99 |

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121819\
Data File : BF118259.D
Acq On : 18 Dec 2019 15:20
Operator : JU
Sample : K6324-07MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EP-15MSD

**Manual Integrations APPROVED**
mohammad
12/19/2019 11:16:46 AM

Quant Time: Dec 19 03:27:48 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 06 17:34:43 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Hexachlorocyclopentadiene | 9.02 | 237 | 211676 | 71.043 ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.15 | 196 | 152677 | 34.386 ng | 99 |
| 44) 2,4,5-Trichlorophenol | 9.19 | 196 | 165877 | 36.059 ng | 94 |
| 46) 1,1'-Biphenyl | 9.33 | 154 | 623219 | 35.997 ng | 99 |
| 47) 2-Chloronaphthalene | 9.36 | 162 | 478959 | 34.391 ng | 98 |
| 48) 2-Nitroaniline | 9.45 | 65 | 132103 | 33.262 ng | 97 |
| 49) Acenaphthylene | 9.77 | 152 | 780241 | 37.984 ng | 99 |
| 50) Dimethylphthalate | 9.63 | 163 | 613556 | 37.840 ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.69 | 165 | 129096 | 36.615 ng | 94 |
| 52) Acenaphthene | 9.95 | 154 | 441491 | 35.213 ng | 98 |
| 53) 3-Nitroaniline | 9.86 | 138 | 59875 | 14.430 ng | 92 |
| 54) 2,4-Dinitrophenol | 9.98 | 184 | 113301 | 64.591 ng | 95 |
| 55) Dibenzofuran | 10.12 | 168 | 682462 | 37.149 ng | 100 |
| 56) 4-Nitrophenol | 10.04 | 139 | 186230 | 64.673 ng | 96 |
| 57) 2,4-Dinitrotoluene | 10.10 | 165 | 174142 | 37.005 ng | 98 |
| 58) Fluorene | 10.46 | 166 | 546093 | 37.405 ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.24 | 232 | 136845 | 36.058 ng | 99 |
| 60) Diethylphthalate | 10.33 | 149 | 587209 | 36.757 ng | 100 |
| 61) 4-Chlorophenyl-phenylether | 10.45 | 204 | 268213 | 36.512 ng | 99 |
| 62) 4-Nitroaniline | 10.49 | 138 | 143597 | 33.182 ng | 99 |
| 63) Azobenzene | 10.62 | 77 | 507673 | 37.225 ng | 95 |
| 65) 4,6-Dinitro-2-methylphenol | 10.52 | 198 | 84510 | 36.326 ng | 96 |
| 66) n-Nitrosodiphenylamine | 10.57 | 169 | 480902 | 36.556 ng | 100 |
| 67) 4-Bromophenyl-phenylether | 10.95 | 248 | 166733 | 34.673 ng | 93 |
| 68) Hexachlorobenzene | 11.02 | 284 | 189347 | 33.454 ng | 94 |
| 69) Atrazine | 11.10 | 200 | 144636 | 39.552 ng | 100 |
| 70) Pentachlorophenol | 11.22 | 266 | 178688 | 67.132 ng | 98 |
| 71) Phenanthrene | 11.43 | 178 | 825377 | 36.858 ng | 99 |
| 72) Anthracene | 11.48 | 178 | 848618 | 37.988 ng | 99 |
| 73) Carbazole | 11.64 | 167 | 750365 | 37.437 ng | 99 |
| 74) Di-n-butylphthalate | 11.96 | 149 | 955610 | 38.096 ng | 99 |
| 75) Fluoranthene | 12.63 | 202 | 868574 | 37.937 ng | 99 |
| 77) Benzidine | 12.74 | 184 | 287271 | 35.042 ng | 97 |
| 78) Pyrene | 12.86 | 202 | 871496 | 35.512 ng | 99 |
| 80) Butylbenzylphthalate | 13.47 | 149 | 406688 | 36.592 ng | 97 |
| 81) Benzo(a)anthracene | 14.05 | 228 | 751011 | 34.877 ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.01 | 252 | 120851 | 17.089 ng | 97 |
| 83) Chrysene | 14.09 | 228 | 726201 | 35.306 ng | 99 |
| 84) Bis(2-ethylhexyl)phthalate | 14.03 | 149 | 580133 | 39.586 ng | 100 |
| 85) Di-n-octyl phthalate | 14.64 | 149 | 920968 | 41.485 ng | 99 |
| 86) Indeno(1,2,3-cd)pyrene | 17.07 | 276 | 685782 | 39.625 ng | 100 |
| 88) Benzo(b)fluoranthene | 15.12 | 252 | 648966 | 34.116 ng | 98 |
| 89) Benzo(k)fluoranthene | 15.12 | 252 | 648966 | 35.513 ng | 99 |
| 90) Benzo(a)pyrene | 15.49 | 252 | 620714 | 36.946 ng | 99 |
| 91) Dibenzo(a,h)anthracene | 17.09 | 278 | 576823 | 40.030 ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.53 | 276 | 566114 | 40.884 ng | 98 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121819\
Data File : BF118259.D
Acq On : 18 Dec 2019 15:20
Operator : JU
Sample : K6324-07MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 19 03:27:48 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 06 17:34:43 2019
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
EP-15MSD

**Manual Integrations APPROVED**
mohammad
12/19/2019 11:16:46 AM