Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020524\
Data File : VY017221.D
Acq On : 05 Feb 2024 11:38
Operator : SY/MD
Sample : VY0205SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0205SBSD01

Quant Time: Feb 06 01:12:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020124S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 02 00:56:04 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.801 | 168 | 136289 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.703 | 114 | 226439 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.502 | 117 | 194673 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.440 | 152 | 86500 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.155 | 65 | 57171 | 46.957 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 93.920% | | | |
| 35) Dibromofluoromethane | 7.734 | 113 | 60469 | 49.458 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.920% | | | |
| 50) Toluene-d8 | 10.191 | 98 | 226594 | 50.903 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.800% | | | |
| 62) 4-Bromofluorobenzene | 12.495 | 95 | 70333 | 48.232 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 96.460% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.912 | 85 | 24234 | 23.456 | ug/l | 98 |
| 3) Chloromethane | 2.119 | 50 | 36522 | 19.677 | ug/l | 99 |
| 4) Vinyl Chloride | 2.259 | 62 | 43949 | 19.431 | ug/l | 97 |
| 5) Bromomethane | 2.656 | 94 | 29912 | 19.078 | ug/l | 96 |
| 6) Chloroethane | 2.802 | 64 | 27949 | 19.138 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.137 | 101 | 47307 | 20.340 | ug/l | 99 |
| 8) Diethyl Ether | 3.540 | 74 | 14769 | 20.188 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.912 | 101 | 30241 | 21.449 | ug/l | 99 |
| 10) Methyl Iodide | 4.107 | 142 | 28054 | 18.927 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.978 | 59 | 11468 | 102.156 | ug/l | 96 |
| 12) 1,1-Dichloroethene | 3.881 | 96 | 27547 | 20.852 | ug/l | 97 |
| 13) Acrolein | 3.741 | 56 | 11246 | 104.667 | ug/l | 100 |
| 14) Allyl chloride | 4.497 | 41 | 39835 | 19.946 | ug/l | 99 |
| 15) Acrylonitrile | 5.180 | 53 | 32766 | 99.475 | ug/l | 99 |
| 16) Acetone | 3.960 | 43 | 39209 | 109.569 | ug/l | 100 |
| 17) Carbon Disulfide | 4.210 | 76 | 81488 | 19.323 | ug/l | 99 |
| 18) Methyl Acetate | 4.503 | 43 | 13899 | 17.411 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.241 | 73 | 62810 | 19.741 | ug/l | 99 |
| 20) Methylene Chloride | 4.729 | 84 | 35935 | 22.599 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.235 | 96 | 30293 | 20.157 | ug/l | 95 |
| 22) Diisopropyl ether | 6.131 | 45 | 90746 | 20.691 | ug/l | 97 |
| 23) Vinyl Acetate | 6.076 | 43 | 270867 | 101.927 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.033 | 63 | 54988 | 20.466 | ug/l | 97 |
| 25) 2-Butanone | 7.003 | 43 | 50099 | 105.313 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.996 | 77 | 45868 | 20.525 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.003 | 96 | 33758 | 20.084 | ug/l | 99 |
| 28) Bromochloromethane | 7.350 | 49 | 18938 | 18.409 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.362 | 42 | 26804 | 99.744 | ug/l | 96 |
| 30) Chloroform | 7.521 | 83 | 55034 | 20.362 | ug/l | 95 |
| 31) Cyclohexane | 7.801 | 56 | 49480 | 20.163 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.716 | 97 | 47664 | 20.502 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.929 | 75 | 42600 | 20.200 | ug/l | 99 |
| 37) Ethyl Acetate | 7.082 | 43 | 19496 | 19.932 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.911 | 117 | 42539 | 21.067 | ug/l | 99 |
| 39) Methylcyclohexane | 9.197 | 83 | 49766 | 20.199 | ug/l | 98 |
| 40) Benzene | 8.173 | 78 | 124523 | 20.676 | ug/l | 97 |

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Quant Title : SW846 8260
QLast Update : Fri Feb 02 00:56:04 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.326 | 41 | 10575 | 22.818 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 8.246 | 62 | 31898 | 20.004 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.283 | 43 | 33971 | 19.619 | ug/l | | 99 |
| 44) Trichloroethene | 8.953 | 130 | 32124 | 21.013 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.228 | 63 | 30285 | 20.472 | ug/l | | 95 |
| 46) Dibromomethane | 9.319 | 93 | 16544 | 20.704 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.508 | 83 | 41633 | 20.818 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.307 | 41 | 16048 | 19.759 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.313 | 88 | 3422 | 393.441 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 10.081 | 43 | 94953 | 102.300 | ug/l | | 98 |
| 52) Toluene | 10.258 | 92 | 76022 | 20.912 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.477 | 75 | 38005 | 20.232 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.941 | 75 | 46361 | 20.605 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.654 | 97 | 22717 | 20.895 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.520 | 69 | 26651 | 20.129 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.801 | 76 | 37915 | 20.276 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.795 | 63 | 64361 | 95.024 | ug/l | | 98 |
| 59) 2-Hexanone | 10.843 | 43 | 72879 | 108.584 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.996 | 129 | 26230 | 20.565 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.099 | 107 | 20867 | 20.637 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.734 | 164 | 26946 | 21.313 | ug/l | | 97 |
| 65) Chlorobenzene | 11.526 | 112 | 77971 | 20.762 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.605 | 131 | 28064 | 20.563 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.605 | 91 | 141514 | 20.850 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.715 | 106 | 106654 | 41.408 | ug/l | | 99 |
| 69) o-Xylene | 12.044 | 106 | 49275 | 20.774 | ug/l | | 100 |
| 70) Styrene | 12.056 | 104 | 81924 | 20.963 | ug/l | | 98 |
| 71) Bromoform | 12.221 | 173 | 14633 | 20.474 | ug/l | # | 96 |
| 73) Isopropylbenzene | 12.343 | 105 | 133435 | 20.998 | ug/l | | 100 |
| 74) N-amyl acetate | 12.154 | 43 | 27901 | 19.541 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83 | 26038 | 20.833 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.642 | 75 | 18143m | 22.725 | ug/l | | |
| 77) Bromobenzene | 12.623 | 156 | 28807 | 20.437 | ug/l | | 99 |
| 78) n-propylbenzene | 12.684 | 91 | 164535 | 21.082 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.770 | 91 | 88958 | 20.733 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.825 | 105 | 106444 | 21.062 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.392 | 75 | 7831 | 20.381 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.867 | 91 | 92913 | 21.040 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.087 | 119 | 91108 | 21.031 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.136 | 105 | 104247 | 20.898 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.264 | 105 | 143133 | 21.140 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.379 | 119 | 113520 | 20.981 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.379 | 146 | 57462 | 20.435 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.459 | 146 | 57058 | 20.886 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.709 | 91 | 106627 | 20.727 | ug/l | | 100 |
| 90) Hexachloroethane | 13.971 | 117 | 23117 | 20.812 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.751 | 146 | 50397 | 21.053 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75 | 3264 | 20.049 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.019 | 180 | 24939 | 20.974 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.123 | 225 | 15125 | 21.598 | ug/l | | 99 |
| 95) Naphthalene | 15.251 | 128 | 42972 | 20.648 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.434 | 180 | 20863 | 20.631 | ug/l | | 99 |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

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