Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD031921\
Data File : VD068671.D
Acq On : 19 Mar 2021 19:38
Operator : VA/SY
Sample : M1458-03
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
MDL-SOIL-03-QT1-2021

**Manual Integrations APPROVED**
MMDadoda
3/22/2021 11:37:09 AM

Quant Time: Mar 20 02:37:34 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031921S.M
Quant Title : SW846 8260
QLast Update : Sat Mar 20 02:37:23 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.979 | 168 | 298462 | 50.00 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.867 | 114 | 530814 | 50.00 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.644 | 117 | 491094 | 50.00 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.573 | 152 | 222875 | 50.00 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.332 | 65 | 163699 | 54.39 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 108.78% | | | | |
| 35) Dibromofluoromethane | 7.914 | 113 | 176289 | 53.38 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.76% | | | | |
| 50) Toluene-d8 | 10.338 | 98 | 677614 | 53.22 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 49 - 140 | | Recovery = 106.44% | | | | |
| 62) 4-Bromofluorobenzene | 12.632 | 95 | 208762 | 50.57 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 25 - 144 | | Recovery = 101.14% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.991 | 85 | 7482 | 3.21 | ug/l | | 100 |
| 3) Chloromethane | 2.209 | 50 | 9487 | 3.30 | ug/l | | 99 |
| 4) Vinyl Chloride | 2.350 | 62 | 10719 | 3.15 | ug/l | | 100 |
| 5) Bromomethane | 2.773 | 94 | 9294 | 3.70 | ug/l | | 97 |
| 6) Chloroethane | 2.932 | 64 | 6433 | 2.89 | ug/l | # | 81 |
| 7) Trichlorofluoromethane | 3.279 | 101 | 12424 | 3.07 | ug/l | | 92 |
| 8) Diethyl Ether | 3.703 | 74 | 3433 | 3.07 | ug/l | | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 4.109 | 101 | 7175 | 2.96 | ug/l | | 95 |
| 10) Methyl Iodide | 4.297 | 142 | 6070 | 2.43 | ug/l | | 98 |
| 11) Tert butyl alcohol | 5.220 | 59 | 2318m | 16.71 | ug/l | | |
| 12) 1,1-Dichloroethene | 4.073 | 96 | 7421 | 3.15 | ug/l | | 90 |
| 13) Acrolein | 3.920 | 56 | 1824m | 14.40 | ug/l | | |
| 14) Allyl chloride | 4.715 | 41 | 8057 | 2.81 | ug/l | | 99 |
| 15) Acrylonitrile | 5.438 | 53 | 7298 | 13.39 | ug/l | # | 88 |
| 16) Acetone | 4.162 | 43 | 5302 | 14.52 | ug/l | # | 80 |
| 17) Carbon Disulfide | 4.409 | 76 | 23156 | 3.06 | ug/l | | 100 |
| 18) Methyl Acetate | 4.726 | 43 | 3079 | 3.07 | ug/l | # | 57 |
| 19) Methyl tert-butyl Ether | 5.479 | 73 | 15890 | 2.67 | ug/l | # | 90 |
| 20) Methylene Chloride | 4.973 | 84 | 31216 | 7.86 | ug/l | | 90 |
| 21) trans-1,2-Dichloroethene | 5.485 | 96 | 10056 | 3.07 | ug/l | | 91 |
| 22) Diisopropyl ether | 6.362 | 45 | 18444 | 2.53 | ug/l | # | 84 |
| 23) Vinyl Acetate | 6.309 | 43 | 44697 | 11.55 | ug/l | # | 92 |
| 24) 1,1-Dichloroethane | 6.267 | 63 | 16898 | 3.16 | ug/l | # | 95 |
| 25) 2-Butanone | 7.214 | 43 | 7986 | 13.20 | ug/l | # | 75 |
| 26) 2,2-Dichloropropane | 7.209 | 77 | 11866 | 2.50 | ug/l | | 94 |
| 27) cis-1,2-Dichloroethene | 7.209 | 96 | 10320 | 2.82 | ug/l | | 96 |
| 28) Bromochloromethane | 7.550 | 49 | 5588 | 2.65 | ug/l | # | 95 |
| 29) Tetrahydrofuran | 7.567 | 42 | 4790 | 12.53 | ug/l | | 97 |
| 30) Chloroform | 7.709 | 83 | 17091 | 2.94 | ug/l | | 92 |
| 31) Cyclohexane | 7.985 | 56 | 18755 | 3.86 | ug/l | # | 81 |
| 32) 1,1,1-Trichloroethane | 7.903 | 97 | 16963 | 3.27 | ug/l | | 96 |
| 36) 1,1-Dichloropropene | 8.120 | 75 | 14114 | 2.98 | ug/l | | 98 |
| 37) Ethyl Acetate | 7.303 | 43 | 2963 | 1.98 | ug/l | # | 91 |
| 38) Carbon Tetrachloride | 8.103 | 117 | 13610 | 2.88 | ug/l | | 88 |
| 39) Methylcyclohexane | 9.355 | 83 | 15909 | 2.72 | ug/l | # | 82 |
| 40) Benzene | 8.350 | 78 | 41140 | 2.97 | ug/l | | 99 |

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Quant Title : SW846 8260
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| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.526 | 41 | 1982 | 2.26 | ug/l | # | 84 |
| 42) 1,2-Dichloroethane | 8.432 | 62 | 10273 | 2.84 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.450 | 43 | 7912 | 2.76 | ug/l | | 98 |
| 44) Trichloroethene | 9.120 | 130 | 11760 | 3.06 | ug/l | | 88 |
| 45) 1,2-Dichloropropane | 9.385 | 63 | 9974 | 3.01 | ug/l | # | 71 |
| 46) Dibromomethane | 9.473 | 93 | 4516 | 2.40 | ug/l | | 86 |
| 47) Bromodichloromethane | 9.661 | 83 | 13000 | 2.69 | ug/l | # | 95 |
| 48) Methyl methacrylate | 9.455 | 41 | 3456 | 2.38 | ug/l | # | 86 |
| 49) 1,4-Dioxane | 9.473 | 88 | 1204m | 57.58 | ug/l | | |
| 51) 4-Methyl-2-Pentanone | 10.226 | 43 | 18429 | 12.34 | ug/l | | 89 |
| 52) Toluene | 10.408 | 92 | 25111 | 2.87 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.626 | 75 | 11400 | 2.57 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.091 | 75 | 13744 | 2.61 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 10.802 | 97 | 7797 | 2.95 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.661 | 69 | 6226 | 2.18 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 10.944 | 76 | 12047 | 2.79 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.944 | 63 | 19593 | 13.45 | ug/l | | 99 |
| 59) 2-Hexanone | 10.985 | 43 | 11079 | 11.04 | ug/l | | 96 |
| 60) Dibromochloromethane | 11.144 | 129 | 8429 | 2.57 | ug/l | | 96 |
| 61) 1,2-Dibromoethane | 11.244 | 107 | 6687 | 2.62 | ug/l | | 96 |
| 64) Tetrachloroethene | 10.873 | 164 | 8872 | 2.79 | ug/l | | 95 |
| 65) Chlorobenzene | 11.667 | 112 | 27080 | 2.80 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131 | 8840 | 2.54 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.744 | 91 | 42591 | 2.53 | ug/l | | 96 |
| 68) m/p-Xylenes | 11.855 | 106 | 32166 | 4.90 | ug/l | | 95 |
| 69) o-Xylene | 12.179 | 106 | 14409 | 2.37 | ug/l | | 100 |
| 70) Styrene | 12.191 | 104 | 23984 | 2.29 | ug/l | | 96 |
| 71) Bromoform | 12.355 | 173 | 4335 | 2.36 | ug/l | # | 88 |
| 73) Isopropylbenzene | 12.479 | 105 | 38781 | 2.53 | ug/l | | 97 |
| 74) N-amyl acetate | 12.285 | 43 | 6409 | 2.51 | ug/l | | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 12.732 | 83 | 7697 | 2.84 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.779 | 75 | 5293m | 2.85 | ug/l | | |
| 77) Bromobenzene | 12.761 | 156 | 10308 | 2.87 | ug/l | | 99 |
| 78) n-propylbenzene | 12.814 | 91 | 50086 | 2.75 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.908 | 91 | 26997 | 2.71 | ug/l | | 97 |
| 80) 1,3,5-Trimethylbenzene | 12.961 | 105 | 30741 | 2.48 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75 | 2204m | 2.70 | ug/l | | |
| 82) 4-Chlorotoluene | 13.002 | 91 | 27155 | 2.55 | ug/l | | 97 |
| 83) tert-Butylbenzene | 13.220 | 119 | 27180 | 2.58 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.267 | 105 | 31298 | 2.45 | ug/l | | 95 |
| 85) sec-Butylbenzene | 13.396 | 105 | 40278 | 2.62 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.508 | 119 | 34333 | 2.46 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.508 | 146 | 20838 | 2.91 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.591 | 146 | 19932 | 2.83 | ug/l | | 86 |
| 89) n-Butylbenzene | 13.838 | 91 | 35760 | 2.70 | ug/l | | 96 |
| 90) Hexachloroethane | 14.102 | 117 | 7179 | 2.86 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.885 | 146 | 18236 | 3.00 | ug/l | | 96 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.508 | 75 | 1230 | 3.18 | ug/l | | 75 |
| 93) 1,2,4-Trichlorobenzene | 15.155 | 180 | 11255 | 2.85 | ug/l | | 94 |
| 94) Hexachlorobutadiene | 15.261 | 225 | 6358 | 2.82 | ug/l | | 97 |
| 95) Naphthalene | 15.396 | 128 | 17928 | 2.59 | ug/l | | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.590 | 180 | 9941 | 2.95 | ug/l | | 97 |

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|---|---|---|---|---|---|---|

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

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