Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD031221\
Data File : VD068599.D
Acq On : 12 Mar 2021 11:41
Operator : VA/SY
Sample : VD0312SBS01
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD0312SBS01

**Manual Integrations APPROVED**
MMDadoda
3/15/2021 12:39:46 PM

Quant Time: Mar 12 23:34:02 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D022621S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 26 14:04:14 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.979 | 168 | 312112 | 50.00 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.867 | 114 | 510777 | 50.00 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.644 | 117 | 479113 | 50.00 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.573 | 152 | 270924 | 50.00 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.332 | 65 | 146038 | 46.83 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 93.66% | | | | |
| 35) Dibromofluoromethane | 7.920 | 113 | 157345 | 51.14 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 102.28% | | | | |
| 50) Toluene-d8 | 10.338 | 98 | 582512 | 47.53 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 49 - 140 | | Recovery = 95.06% | | | | |
| 62) 4-Bromofluorobenzene | 12.632 | 95 | 204877 | 51.87 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 25 - 144 | | Recovery = 103.74% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.985 | 85 | 56976 | 18.81 | ug/l | | 98 |
| 3) Chloromethane | 2.209 | 50 | 69255 | 18.09 | ug/l | | 97 |
| 4) Vinyl Chloride | 2.350 | 62 | 82761 | 18.21 | ug/l | | 94 |
| 5) Bromomethane | 2.756 | 94 | 63548 | 19.64 | ug/l | | 99 |
| 6) Chloroethane | 2.921 | 64 | 56891 | 19.36 | ug/l | | 100 |
| 7) Trichlorofluoromethane | 3.268 | 101 | 107145 | 20.66 | ug/l | | 99 |
| 8) Diethyl Ether | 3.715 | 74 | 27444 | 17.78 | ug/l | | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.103 | 101 | 64800 | 20.51 | ug/l | | 96 |
| 10) Methyl Iodide | 4.297 | 142 | 56553 | 16.81 | ug/l | | 93 |
| 11) Tert butyl alcohol | 5.220 | 59 | 19041 | 114.36 | ug/l | # | 86 |
| 12) 1,1-Dichloroethene | 4.073 | 96 | 61692 | 19.68 | ug/l | | 96 |
| 13) Acrolein | 3.920 | 56 | 17759 | 74.63 | ug/l | | 98 |
| 14) Allyl chloride | 4.709 | 41 | 69684 | 17.22 | ug/l | | 93 |
| 15) Acrylonitrile | 5.420 | 53 | 68198 | 104.67 | ug/l | | 97 |
| 16) Acetone | 4.156 | 43 | 45564 | 91.99 | ug/l | | 96 |
| 17) Carbon Disulfide | 4.403 | 76 | 187656 | 18.27 | ug/l | | 98 |
| 18) Methyl Acetate | 4.720 | 43 | 23172 | 18.15 | ug/l | | 95 |
| 19) Methyl tert-butyl Ether | 5.485 | 73 | 148106 | 21.79 | ug/l | # | 87 |
| 20) Methylene Chloride | 4.962 | 84 | 83741 | 20.12 | ug/l | | 95 |
| 21) trans-1,2-Dichloroethene | 5.467 | 96 | 85143 | 22.75 | ug/l | | 98 |
| 22) Diisopropyl ether | 6.362 | 45 | 160371 | 17.99 | ug/l | # | 93 |
| 23) Vinyl Acetate | 6.309 | 43 | 411574 | 89.01 | ug/l | | 100 |
| 24) 1,1-Dichloroethane | 6.262 | 63 | 119323 | 19.53 | ug/l | | 98 |
| 25) 2-Butanone | 7.209 | 43 | 65838 | 92.46 | ug/l | | 100 |
| 26) 2,2-Dichloropropane | 7.209 | 77 | 103809 | 20.40 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 7.214 | 96 | 82573 | 20.10 | ug/l | | 98 |
| 28) Bromochloromethane | 7.550 | 49 | 45402 | 19.04 | ug/l | | 87 |
| 29) Tetrahydrofuran | 7.561 | 42 | 41086 | 88.86 | ug/l | | 99 |
| 30) Chloroform | 7.709 | 83 | 127261 | 19.73 | ug/l | | 99 |
| 31) Cyclohexane | 7.985 | 56 | 100032 | 17.64 | ug/l | # | 93 |
| 32) 1,1,1-Trichloroethane | 7.909 | 97 | 111570 | 20.26 | ug/l | | 96 |
| 36) 1,1-Dichloropropene | 8.108 | 75 | 95972 | 19.77 | ug/l | | 99 |
| 37) Ethyl Acetate | 7.297 | 43 | 32101 | 19.93 | ug/l | | 98 |
| 38) Carbon Tetrachloride | 8.097 | 117 | 100531 | 22.04 | ug/l | | 97 |
| 39) Methylcyclohexane | 9.350 | 83 | 116691 | 19.49 | ug/l | | 91 |
| 40) Benzene | 8.350 | 78 | 281878 | 20.24 | ug/l | | 96 |

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| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.532 | 41 | 17315 | 18.52 | ug/l | | 93 |
| 42) 1,2-Dichloroethane | 8.420 | 62 | 75116 | 20.51 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.456 | 43 | 59364 | 20.05 | ug/l | | 97 |
| 44) Trichloroethene | 9.114 | 130 | 82192 | 21.50 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.391 | 63 | 67262 | 20.20 | ug/l | | 99 |
| 46) Dibromomethane | 9.473 | 93 | 38111 | 21.04 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.667 | 83 | 99678 | 21.28 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.461 | 41 | 31156 | 19.74 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.461 | 88 | 8056 | 390.01 | ug/l | | 92 |
| 51) 4-Methyl-2-Pentanone | 10.226 | 43 | 150035 | 96.84 | ug/l | | 99 |
| 52) Toluene | 10.403 | 92 | 185980 | 20.91 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.620 | 75 | 92556 | 21.37 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 10.091 | 75 | 108285 | 20.50 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.802 | 97 | 53458 | 21.33 | ug/l | | 89 |
| 56) Ethyl methacrylate | 10.661 | 69 | 56561 | 19.63 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 10.944 | 76 | 89160 | 20.38 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.944 | 63 | 141346 | 97.79 | ug/l | | 95 |
| 59) 2-Hexanone | 10.985 | 43 | 100980 | 97.78 | ug/l | | 96 |
| 60) Dibromochloromethane | 11.138 | 129 | 67400 | 21.72 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.244 | 107 | 50511 | 20.59 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.873 | 164 | 68920 | 22.03 | ug/l | | 91 |
| 65) Chlorobenzene | 11.667 | 112 | 200430 | 20.54 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.744 | 131 | 73684 | 21.73 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.744 | 91 | 355499 | 20.41 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.849 | 106 | 272903 | 41.26 | ug/l | | 99 |
| 69) o-Xylene | 12.179 | 106 | 127132 | 20.87 | ug/l | | 95 |
| 70) Styrene | 12.191 | 104 | 222519 | 21.36 | ug/l | | 99 |
| 71) Bromoform | 12.361 | 173 | 40889 | 23.73 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.479 | 105 | 353940 | 17.61 | ug/l | | 100 |
| 74) N-amyl acetate | 12.285 | 43 | 55101 | 16.10 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83 | 62903 | 18.20 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.779 | 75 | 48477m | 20.16 | ug/l | | |
| 77) Bromobenzene | 12.761 | 156 | 84307 | 18.39 | ug/l | | 95 |
| 78) n-propylbenzene | 12.820 | 91 | 430403 | 17.93 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.902 | 91 | 249633 | 18.73 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.955 | 105 | 297462 | 18.06 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75 | 18195 | 17.65 | ug/l | | 95 |
| 82) 4-Chlorotoluene | 13.002 | 91 | 252587 | 18.01 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.220 | 119 | 255407 | 18.21 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.267 | 105 | 303184 | 18.38 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.396 | 105 | 371480 | 18.75 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.514 | 119 | 356207 | 19.81 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.514 | 146 | 179702 | 20.29 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.591 | 146 | 178170 | 20.31 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.838 | 91 | 332113 | 19.15 | ug/l | | 99 |
| 90) Hexachloroethane | 14.108 | 117 | 61968 | 17.34 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 13.885 | 146 | 157273 | 20.70 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75 | 10019 | 16.44 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.161 | 180 | 106696 | 18.18 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.261 | 225 | 62918 | 19.32 | ug/l | | 97 |
| 95) Naphthalene | 15.396 | 128 | 181551 | 17.09 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.590 | 180 | 93705 | 18.45 | ug/l | | 97 |

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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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