Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD041521\
Data File : VD068854.D
Acq On : 15 Apr 2021 14:18
Operator : VA/SY
Sample : M2042-03MSD
Misc : 4.97G/5.00ml/MSVOA_D/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
FS-SB12A(7-8)MSD

**Manual Integrations APPROVED**
MMDadoda
4/16/2021 1:06:43 PM

Quant Time: Apr 16 01:07:51 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D040721S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 08 03:50:31 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.979 | 168 | 173807 | 50.00 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.867 | 114 | 280589 | 50.00 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.643 | 117 | 257761 | 50.00 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.573 | 152 | 120225 | 50.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.332 | 65 | 87193 | 47.47 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 94.94% | | | |
| 35) Dibromofluoromethane | 7.914 | 113 | 94289 | 51.66 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 103.32% | | | |
| 50) Toluene-d8 | 10.338 | 98 | 345599 | 50.20 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 49 - 140 | | Recovery = 100.40% | | | |
| 62) 4-Bromofluorobenzene | 12.632 | 95 | 110389 | 48.28 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 25 - 144 | | Recovery = 96.56% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.991 | 85 | 73340 | 42.59 | ug/l | 98 |
| 3) Chloromethane | 2.209 | 50 | 84419 | 41.69 | ug/l | 100 |
| 4) Vinyl Chloride | 2.350 | 62 | 109634 | 43.10 | ug/l | 97 |
| 5) Bromomethane | 2.762 | 94 | 79984 | 42.07 | ug/l | 96 |
| 6) Chloroethane | 2.920 | 64 | 71486 | 42.77 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.273 | 101 | 136504 | 45.61 | ug/l | 93 |
| 8) Diethyl Ether | 3.709 | 74 | 38614 | 47.77 | ug/l | 91 |
| 9) 1,1,2-Trichlorotrifluo... | 4.097 | 101 | 83161 | 46.04 | ug/l | 98 |
| 10) Methyl Iodide | 4.297 | 142 | 80760 | 38.74 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.232 | 59 | 20386m | 203.51 | ug/l | |
| 12) 1,1-Dichloroethene | 4.067 | 96 | 77621 | 44.61 | ug/l | 94 |
| 13) Acrolein | 3.920 | 56 | 15199 | 210.22 | ug/l | 97 |
| 14) Allyl chloride | 4.714 | 41 | 84618 | 43.16 | ug/l | 97 |
| 15) Acrylonitrile | 5.426 | 53 | 82638 | 227.81 | ug/l | 99 |
| 16) Acetone | 4.162 | 43 | 70613 | 277.60 | ug/l | 97 |
| 17) Carbon Disulfide | 4.409 | 76 | 228270 | 40.54 | ug/l | 99 |
| 18) Methyl Acetate | 4.720 | 43 | 35318 | 50.54 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.479 | 73 | 180298 | 46.71 | ug/l | 98 |
| 20) Methylene Chloride | 4.967 | 84 | 97993 | 47.30 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.473 | 96 | 92388 | 41.35 | ug/l | 96 |
| 22) Diisopropyl ether | 6.361 | 45 | 204825 | 43.12 | ug/l | 95 |
| 23) Vinyl Acetate | 6.308 | 43 | 543642 | 215.93 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.261 | 63 | 155098 | 43.30 | ug/l | 100 |
| 25) 2-Butanone | 7.208 | 43 | 85287 | 236.94 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.214 | 77 | 126594 | 43.27 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.208 | 96 | 98146 | 44.20 | ug/l | 98 |
| 28) Bromochloromethane | 7.544 | 49 | 60358 | 46.69 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.567 | 42 | 57025 | 235.57 | ug/l | 96 |
| 30) Chloroform | 7.708 | 83 | 169764 | 43.30 | ug/l | 97 |
| 31) Cyclohexane | 7.985 | 56 | 121362 | 39.71 | ug/l | 94 |
| 32) 1,1,1-Trichloroethane | 7.902 | 97 | 151480 | 44.22 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.114 | 75 | 125845 | 44.31 | ug/l | 100 |
| 37) Ethyl Acetate | 7.297 | 43 | 38561 | 46.22 | ug/l | 96 |
| 38) Carbon Tetrachloride | 8.097 | 117 | 132442 | 47.10 | ug/l | 99 |
| 39) Methylcyclohexane | 9.355 | 83 | 139401 | 42.09 | ug/l | 98 |
| 40) Benzene | 8.350 | 78 | 371676 | 44.72 | ug/l | 97 |

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| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.526 | 41 | 22412m | 45.38 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.426 | 62 | 101897 | 46.38 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.455 | 43 | 81758 | 48.08 | ug/l | | 99 |
| 44) Trichloroethene | 9.108 | 130 | 103559 | 45.11 | ug/l | | 87 |
| 45) 1,2-Dichloropropane | 9.385 | 63 | 88151 | 44.41 | ug/l | | 99 |
| 46) Dibromomethane | 9.473 | 93 | 51941 | 46.97 | ug/l | | 94 |
| 47) Bromodichloromethane | 9.661 | 83 | 134994 | 46.73 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.455 | 41 | 37108 | 44.28 | ug/l | | 83 |
| 49) 1,4-Dioxane | 9.461 | 88 | 12981 | 1108.75 | ug/l | | 90 |
| 51) 4-Methyl-2-Pentanone | 10.226 | 43 | 212281 | 247.66 | ug/l | | 99 |
| 52) Toluene | 10.402 | 92 | 244247 | 46.41 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.620 | 75 | 116538 | 45.51 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 10.091 | 75 | 140623 | 45.91 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.796 | 97 | 74714 | 47.78 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.661 | 69 | 81701 | 50.76 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.949 | 76 | 121136 | 47.05 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.944 | 63 | 216982 | 253.00 | ug/l | | 99 |
| 59) 2-Hexanone | 10.985 | 43 | 154343 | 269.11 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.138 | 129 | 95774 | 48.85 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.243 | 107 | 72050 | 47.41 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.873 | 164 | 88284 | 48.86 | ug/l | | 96 |
| 65) Chlorobenzene | 11.667 | 112 | 254299 | 45.57 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.743 | 131 | 96432 | 48.07 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.743 | 91 | 451528 | 46.73 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.849 | 106 | 356769 | 95.69 | ug/l | | 99 |
| 69) o-Xylene | 12.179 | 106 | 163665 | 48.27 | ug/l | | 99 |
| 70) Styrene | 12.190 | 104 | 284120 | 48.09 | ug/l | | 98 |
| 71) Bromoform | 12.355 | 173 | 54175 | 50.41 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.479 | 105 | 435693 | 49.63 | ug/l | | 100 |
| 74) N-amyl acetate | 12.285 | 43 | 73890 | 49.63 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83 | 82249 | 50.13 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.779 | 75 | 52405m | 47.71 | ug/l | | |
| 77) Bromobenzene | 12.755 | 156 | 102487 | 48.56 | ug/l | | 98 |
| 78) n-propylbenzene | 12.820 | 91 | 503355 | 47.21 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.902 | 91 | 280507 | 47.10 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.955 | 105 | 359828 | 49.03 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75 | 24623 | 52.03 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 13.002 | 91 | 293173 | 46.44 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.220 | 119 | 291066 | 46.74 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.267 | 105 | 364546 | 49.18 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.396 | 105 | 403970 | 45.97 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.508 | 119 | 371917 | 46.34 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.514 | 146 | 191306 | 45.76 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.590 | 146 | 186041 | 44.96 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.837 | 91 | 318022 | 42.07 | ug/l | | 99 |
| 90) Hexachloroethane | 14.108 | 117 | 72570 | 45.39 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.885 | 146 | 171272 | 47.34 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75 | 11713 | 46.96 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 15.155 | 180 | 98096 | 43.82 | ug/l | | 95 |
| 94) Hexachlorobutadiene | 15.261 | 225 | 40298 | 31.44 | ug/l | | 96 |
| 95) Naphthalene | 15.396 | 128 | 222582 | 57.08 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.584 | 180 | 84323 | 43.06 | ug/l | | 99 |

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

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