

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101920\  
 Data File : VX018958.D  
 Acq On : 19 Oct 2020 17:36  
 Operator : JC/SP  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 10/20/2020 4:52:03 PM

Quant Time: Oct 19 18:21:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 17:59:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 98894    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 176358   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 166988   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 87026    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 60920    | 45.04 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.08% |      |
| 35) Dibromofluoromethane  | 5.46   | 113 | 51538    | 43.97 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 87.94% |      |
| 50) Toluene-d8            | 8.70   | 98  | 203773   | 46.23 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.46% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 72944    | 42.79 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 85.58% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 46104  | 40.252  | ug/l | 100    |
| 3) Chloromethane              | 1.31 | 50  | 48536  | 39.688  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.39 | 62  | 66591  | 52.320  | ug/l | 100    |
| 5) Bromomethane               | 1.62 | 94  | 56358  | 79.349  | ug/l | 100    |
| 6) Chloroethane               | 1.71 | 64  | 48569  | 66.995  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 112397 | 62.212  | ug/l | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 44519  | 70.038  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 61888  | 62.924  | ug/l | 100    |
| 10) Methyl Iodide             | 2.49 | 142 | 59250  | 64.684  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.02 | 59  | 73964  | 270.421 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 65429  | 63.752  | ug/l | 100    |
| 13) Acrolein                  | 2.28 | 56  | 47922  | 376.369 | ug/l | 100    |
| 14) Allyl chloride            | 2.71 | 41  | 73855  | 43.766  | ug/l | 100    |
| 15) Acrylonitrile             | 3.12 | 53  | 137485 | 230.280 | ug/l | 100    |
| 16) Acetone                   | 2.42 | 43  | 121458 | 228.713 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.55 | 76  | 139924 | 47.804  | ug/l | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 60362  | 47.245  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 166646 | 50.315  | ug/l | 100    |
| 20) Methylene Chloride        | 2.84 | 84  | 55481  | 45.872  | ug/l | 100    |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 57628  | 52.871  | ug/l | 100    |
| 22) Diisopropyl ether         | 3.83 | 45  | 146966 | 44.031  | ug/l | 100    |
| 23) Vinyl Acetate             | 3.79 | 43  | 720172 | 239.980 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 99826  | 51.018  | ug/l | 100    |
| 25) 2-Butanone                | 4.64 | 43  | 202241 | 232.876 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 93186  | 56.900  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 68921  | 54.478  | ug/l | 100    |
| 28) Bromochloromethane        | 4.98 | 49  | 42570  | 45.740  | ug/l | 100    |
| 29) Tetrahydrofuran           | 5.09 | 42  | 120384 | 220.874 | ug/l | 100    |
| 30) Chloroform                | 5.18 | 83  | 108446 | 53.004  | ug/l | 100    |
| 31) Cyclohexane               | 5.54 | 56  | 79907  | 48.949  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 99172  | 52.816  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 81933  | 50.442  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.79 | 43  | 79266  | 43.040  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 86857  | 47.939  | ug/l | 100    |

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 VSTDICCC050

Manual Integrations  
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 10/20/2020 4:52:03 PM

Quant Time: Oct 19 18:21:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 17:59:03 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 89983    | 50.722   | ug/l   | 100      |
| 40) Benzene                    | 6.11  | 78   | 243150   | 50.694   | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.00  | 41   | 41758    | 41.517   | ug/l   | 100      |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 84181    | 46.562   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.42  | 43   | 131534   | 44.224   | ug/l   | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 64579    | 48.188   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 58805    | 46.420   | ug/l   | 100      |
| 46) Dibromomethane             | 7.64  | 93   | 42850    | 47.628   | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.88  | 83   | 86932    | 48.524   | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.74  | 41   | 60932    | 41.561   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 7.71  | 88   | 28734    | 1048.710 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 398014   | 218.161  | ug/l   | 100      |
| 52) Toluene                    | 8.76  | 92   | 161537   | 52.819   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 101195   | 50.596   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 104479   | 49.424   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 63624    | 49.390   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 9.16  | 69   | 98455    | 51.330   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 104685   | 49.327   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 253512   | 285.429  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 303692   | 219.482  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 72586    | 48.364   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 69300    | 49.546   | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 57956    | 47.714   | ug/l   | 100      |
| 65) Chlorobenzene              | 10.12 | 112  | 173008   | 51.651   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 64587    | 49.463   | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.23 | 91   | 304492   | 53.392   | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 238075   | 111.334  | ug/l   | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 115325   | 55.412   | ug/l   | 100      |
| 70) Styrene                    | 10.70 | 104  | 195594   | 55.532   | ug/l   | 100      |
| 71) Bromoform                  | 10.84 | 173  | 54480    | 49.134   | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.00 | 105  | 301040   | 52.416   | ug/l   | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 106145   | 40.973   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 96957    | 47.974   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 88405m   | 46.210   | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 74030    | 47.075   | ug/l   | 100      |
| 78) n-propylbenzene            | 11.34 | 91   | 342470   | 52.435   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 200419   | 50.084   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 259016   | 54.670   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 36526    | 50.911   | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 238515   | 50.054   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 257494   | 54.734   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 261595   | 54.051   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 301995   | 56.296   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 275039   | 56.076   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 137962   | 49.429   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 143733   | 51.127   | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.37 | 91   | 247441   | 55.029   | ug/l   | 100      |
| 90) Hexachloroethane           | 12.58 | 117  | 45064    | 47.912   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 137710   | 52.236   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 22557    | 45.131   | ug/l   | 100      |

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Quant Title : SW846 8260  
QLast Update : Mon Oct 19 17:59:03 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 90885    | 51.691 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.76 | 225  | 37782    | 53.777 | ug/l  | 100      |
| 95) Naphthalene            | 13.82 | 128  | 321772   | 55.243 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 89255    | 51.274 | ug/l  | 100      |

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

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