

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051320\  
 Data File : VX016198.D  
 Acq On : 13 May 2020 23:23  
 Operator : JC/SP  
 Sample : VX0513WBSD02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0513WBSD02

Quant Time: May 14 07:31:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 275354   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 451311   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 419736   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 212408   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.04   | 65  | 168938   | 46.62 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.24% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 131853   | 46.11 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.22% |      |
| 50) Toluene-d8            | 8.70   | 98  | 517118   | 46.94 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.88% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 195491   | 46.65 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.30% |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 53645  | 18.406 | ug/l | 100    |
| 3) Chloromethane              | 1.31 | 50  | 60057  | 17.743 | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 63700  | 17.640 | ug/l | 98     |
| 5) Bromomethane               | 1.63 | 94  | 38858  | 21.344 | ug/l | 98     |
| 6) Chloroethane               | 1.71 | 64  | 39351  | 17.909 | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 83344  | 17.580 | ug/l | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 34885  | 17.464 | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 47805  | 17.477 | ug/l | 98     |
| 10) Methyl Iodide             | 2.49 | 142 | 45791  | 12.463 | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 78572  | 85.753 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 50607  | 17.680 | ug/l | 99     |
| 13) Acrolein                  | 2.27 | 56  | 37971  | 66.225 | ug/l | 97     |
| 14) Allyl chloride            | 2.71 | 41  | 89183  | 16.993 | ug/l | 97     |
| 15) Acrylonitrile             | 3.12 | 53  | 168507 | 88.651 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 137057 | 84.775 | ug/l | 97     |
| 17) Carbon Disulfide          | 2.55 | 76  | 144315 | 16.651 | ug/l | 98     |
| 18) Methyl Acetate            | 2.75 | 43  | 74199  | 18.666 | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 185389 | 18.788 | ug/l | 99     |
| 20) Methylene Chloride        | 2.84 | 84  | 59168  | 17.753 | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 55921  | 17.532 | ug/l | 99     |
| 22) Diisopropyl ether         | 3.82 | 45  | 180979 | 18.279 | ug/l | 99     |
| 23) Vinyl Acetate             | 3.79 | 43  | 781670 | 89.735 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 105116 | 18.979 | ug/l | 100    |
| 25) 2-Butanone                | 4.64 | 43  | 232136 | 89.105 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 76808  | 15.185 | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 64094  | 18.380 | ug/l | 97     |
| 28) Bromochloromethane        | 4.98 | 49  | 50327  | 19.927 | ug/l | 96     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 153493 | 88.920 | ug/l | 99     |
| 30) Chloroform                | 5.18 | 83  | 102201 | 18.533 | ug/l | 100    |
| 31) Cyclohexane               | 5.55 | 56  | 88716  | 17.625 | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 92849  | 18.523 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 77657  | 17.480 | ug/l | 99     |
| 37) Ethyl Acetate             | 4.79 | 43  | 89914  | 17.462 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 80673  | 17.866 | ug/l | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 87685    | 16.390  | ug/l   | 96       |
| 40) Benzene                    | 6.12  | 78   | 233797   | 17.986  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.01  | 41   | 47609    | 17.121  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 83027    | 17.731  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 143340   | 17.448  | ug/l   | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 79534    | 17.223  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 61747    | 18.773  | ug/l   | 98       |
| 46) Dibromomethane             | 7.64  | 93   | 40310    | 18.034  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.88  | 83   | 83111    | 18.257  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.74  | 41   | 67355    | 17.302  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 32263    | 345.562 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 450591   | 89.628  | ug/l   | 99       |
| 52) Toluene                    | 8.77  | 92   | 149436   | 18.444  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 94368    | 17.386  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 99394    | 17.532  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 58829    | 18.455  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 95301    | 18.315  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 103945   | 18.688  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 251181   | 90.675  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 344324   | 87.212  | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.57  | 129  | 64747    | 18.442  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 63611    | 18.423  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 90420    | 17.548  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.12 | 112  | 158272   | 18.008  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 59557    | 18.334  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 282488   | 18.014  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 211799   | 36.049  | ug/l   | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 102558   | 18.160  | ug/l   | 97       |
| 70) Styrene                    | 10.70 | 104  | 172064   | 17.959  | ug/l   | 100      |
| 71) Bromoform                  | 10.84 | 173  | 48545    | 18.343  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.00 | 105  | 275022   | 17.802  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 118730   | 16.476  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 57623    | 21.312  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 84381m   | 17.506  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 68963    | 17.294  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.34 | 91   | 309952   | 17.245  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 186561   | 17.585  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 227819   | 17.465  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 31859    | 15.751  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 219379   | 17.511  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 194550   | 17.306  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 229707   | 17.418  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 252655   | 16.646  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 233830   | 16.593  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 122832   | 17.155  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 126435   | 17.398  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 201054   | 15.617  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 40594    | 16.773  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 120352   | 17.456  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 20777    | 16.355  | ug/l   | 99       |

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MSVOA\_X  
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VX0513WBSD02

Quant Time: May 14 07:31:27 2020  
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Quant Title : SW846 8260  
QLast Update : Wed May 06 06:43:32 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 83572    | 16.373 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 34055    | 15.855 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 283965   | 17.181 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 82488    | 16.535 | ug/l  | 100      |

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

