

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030619\  
 Data File : VX007863.D  
 Acq On : 06 Mar 2019 16:41  
 Operator : JC/SP  
 Sample : VX0306WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0306WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 3/7/2019 10:35:33 AM

Quant Time: Mar 07 08:28:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 07 07:33:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 312927   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 447607   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 395595   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 199848   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 156557   | 47.43 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.86% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 136384   | 47.63 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.26% |      |
| 50) Toluene-d8            | 8.71   | 98  | 514065   | 48.89 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.78% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 181346   | 49.19 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.38% |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 50421  | 18.860 | ug/l | 99     |
| 3) Chloromethane              | 1.33 | 50  | 61529  | 17.859 | ug/l | 100    |
| 4) Vinyl Chloride             | 1.41 | 62  | 63188  | 18.458 | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 33913  | 20.443 | ug/l | 97     |
| 6) Chloroethane               | 1.73 | 64  | 39699  | 17.456 | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 81917  | 18.379 | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 35201  | 18.238 | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 51782  | 18.748 | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 75443  | 19.254 | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 67190  | 91.015 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.38 | 96  | 48536  | 18.230 | ug/l | 99     |
| 13) Acrolein                  | 2.30 | 56  | 39704  | 95.993 | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 101546 | 18.151 | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 168204 | 90.269 | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 167935 | 87.893 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 152542 | 18.585 | ug/l | 98     |
| 18) Methyl Acetate            | 2.78 | 43  | 74303  | 18.305 | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 171064 | 18.676 | ug/l | 99     |
| 20) Methylene Chloride        | 2.86 | 84  | 54709  | 17.991 | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 52557  | 17.941 | ug/l | 99     |
| 22) Diisopropyl ether         | 3.87 | 45  | 192455 | 18.766 | ug/l | 100    |
| 23) Vinyl Acetate             | 3.82 | 43  | 840169 | 93.422 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 103442 | 18.743 | ug/l | 99     |
| 25) 2-Butanone                | 4.70 | 43  | 245535 | 90.770 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 64752  | 17.709 | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 60052  | 17.914 | ug/l | 97     |
| 28) Bromochloromethane        | 5.02 | 49  | 53348  | 20.734 | ug/l | 97     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 155805 | 92.339 | ug/l | 100    |
| 30) Chloroform                | 5.21 | 83  | 96816  | 18.545 | ug/l | 97     |
| 31) Cyclohexane               | 5.58 | 56  | 96625  | 19.050 | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 79192  | 18.283 | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 74482  | 18.377 | ug/l | 99     |
| 37) Ethyl Acetate             | 4.85 | 43  | 87941  | 18.284 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 71552  | 18.596 | ug/l | 99     |

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 ALS Vial : 14 Sample Multiplier: 1

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Quant Time: Mar 07 08:28:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 07 07:33:26 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 95305    | 19.406  | ug/l  | 96       |
| 40) Benzene                    | 6.14  | 78   | 227990   | 18.895  | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 49058    | 18.708  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 74168    | 18.796  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 132598   | 18.628  | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 61912    | 18.619  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 60772    | 19.070  | ug/l  | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 38394    | 19.037  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 71134    | 18.603  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 69802    | 18.652  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 28011    | 364.358 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 439543   | 96.019  | ug/l  | 100      |
| 52) Toluene                    | 8.78  | 92   | 139648   | 18.957  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 72696    | 18.215  | ug/l  | 97       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 83904    | 18.617  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 57741    | 19.363  | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 85819    | 19.167  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 95511    | 19.075  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 227173   | 98.086  | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 337230   | 94.887  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 58784    | 18.859  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 59467    | 18.782  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 60587    | 18.481  | ug/l  | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 152574   | 18.431  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 55640    | 18.754  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 260233   | 19.097  | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 197798   | 37.659  | ug/l  | 98       |
| 69) o-Xylene                   | 10.69 | 106  | 96056    | 18.943  | ug/l  | 99       |
| 70) Styrene                    | 10.71 | 104  | 158970   | 19.158  | ug/l  | 100      |
| 71) Bromoform                  | 10.86 | 173  | 45532    | 17.871  | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 261863   | 19.374  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 113815   | 18.445  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 86051    | 18.457  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 81308m   | 19.388  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 68727    | 18.547  | ug/l  | 100      |
| 78) n-propylbenzene            | 11.36 | 91   | 292553   | 19.511  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 173312   | 18.904  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 215181   | 19.343  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 22639    | 17.256  | ug/l  | 92       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 199208   | 18.961  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 213292   | 19.034  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 219425   | 19.241  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 256785   | 19.457  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 232705   | 19.689  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 121408   | 18.519  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 121640   | 18.118  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 194338   | 19.408  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 36639    | 18.541  | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 121709   | 18.688  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 17214    | 17.667  | ug/l  | 100      |

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Quant Title : SW846 8260  
QLast Update : Thu Mar 07 07:33:26 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 85177    | 18.617 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 46490    | 19.436 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 247088   | 18.744 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 85033    | 18.657 | ug/l  | 98       |

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

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