

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX072920\  
 Data File : VX017667.D  
 Acq On : 29 Jul 2020 11:40  
 Operator : JC/SP  
 Sample : VX0729WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0729WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/30/2020 6:08:27 PM

Quant Time: Jul 30 04:48:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X072320W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 24 05:48:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.62  | 168  | 558653   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 834062   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 774551   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 423150   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.03   | 65  | 358210   | 49.92 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.84% |      |
| 35) Dibromofluoromethane    | 5.46   | 113 | 277554   | 49.76 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.52% |      |
| 50) Toluene-d8              | 8.70   | 98  | 952172   | 47.32 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.64% |      |
| 62) 4-Bromofluorobenzene    | 11.12  | 95  | 390612   | 48.50 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.00% |      |

| Target Compounds              |      |     |         |        | Qvalue   |
|-------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 99325   | 18.523 | ug/l 99  |
| 3) Chloromethane              | 1.32 | 50  | 111862  | 16.447 | ug/l 100 |
| 4) Vinyl Chloride             | 1.39 | 62  | 118476  | 16.853 | ug/l 98  |
| 5) Bromomethane               | 1.63 | 94  | 86922   | 21.253 | ug/l 100 |
| 6) Chloroethane               | 1.72 | 64  | 70197   | 17.614 | ug/l 100 |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 195533  | 17.684 | ug/l 100 |
| 8) Diethyl Ether              | 2.17 | 74  | 64623   | 17.131 | ug/l 95  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 103375  | 17.036 | ug/l 99  |
| 10) Methyl Iodide             | 2.50 | 142 | 122116  | 15.731 | ug/l 96  |
| 11) Tert butyl alcohol        | 3.01 | 59  | 125078  | 82.700 | ug/l 100 |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 100036  | 17.336 | ug/l 95  |
| 13) Acrolein                  | 2.27 | 56  | 76499   | 69.298 | ug/l 98  |
| 14) Allyl chloride            | 2.71 | 41  | 187491  | 17.795 | ug/l 95  |
| 15) Acrylonitrile             | 3.12 | 53  | 276139  | 84.532 | ug/l 98  |
| 16) Acetone                   | 2.42 | 43  | 251132  | 79.511 | ug/l 99  |
| 17) Carbon Disulfide          | 2.55 | 76  | 285302  | 16.267 | ug/l 98  |
| 18) Methyl Acetate            | 2.75 | 43  | 131222  | 17.641 | ug/l 97  |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 348481  | 17.448 | ug/l 100 |
| 20) Methylene Chloride        | 2.84 | 84  | 114591  | 18.453 | ug/l 97  |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 105750  | 17.107 | ug/l 97  |
| 22) Diisopropyl ether         | 3.82 | 45  | 350887  | 18.213 | ug/l 92  |
| 23) Vinyl Acetate             | 3.78 | 43  | 1528119 | 88.961 | ug/l 99  |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 199624  | 17.987 | ug/l 98  |
| 25) 2-Butanone                | 4.64 | 43  | 384943  | 85.792 | ug/l 99  |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 185895  | 18.713 | ug/l 98  |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 122065  | 18.180 | ug/l 99  |
| 28) Bromochloromethane        | 4.98 | 49  | 96985   | 19.285 | ug/l 97  |
| 29) Tetrahydrofuran           | 5.09 | 42  | 237141  | 85.323 | ug/l 98  |
| 30) Chloroform                | 5.18 | 83  | 211497  | 18.651 | ug/l 98  |
| 31) Cyclohexane               | 5.54 | 56  | 163840  | 18.513 | ug/l 96  |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 197223  | 18.444 | ug/l 100 |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 154186  | 19.275 | ug/l 100 |
| 37) Ethyl Acetate             | 4.79 | 43  | 149685  | 17.102 | ug/l 99  |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 184131  | 18.955 | ug/l 98  |

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 Quant Title : SW846 8260  
 QLast Update : Fri Jul 24 05:48:09 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 161395   | 17.283  | ug/l  | 98       |
| 40) Benzene                    | 6.11  | 78   | 430755   | 18.782  | ug/l  | 97       |
| 41) Methacrylonitrile          | 5.00  | 41   | 86133    | 17.169  | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 176799   | 18.844  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 252132   | 17.459  | ug/l  | 100      |
| 44) Trichloroethene            | 7.18  | 130  | 127437   | 19.014  | ug/l  | 97       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 109310   | 17.193  | ug/l  | 96       |
| 46) Dibromomethane             | 7.63  | 93   | 79434    | 17.679  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.87  | 83   | 163242   | 18.057  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.74  | 41   | 118445   | 16.546  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 47121    | 343.339 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 721697   | 83.757  | ug/l  | 99       |
| 52) Toluene                    | 8.76  | 92   | 266197   | 18.099  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 179196   | 17.707  | ug/l  | 94       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 184958   | 17.918  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 110893   | 18.099  | ug/l  | 96       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 160264   | 17.362  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 179581   | 17.800  | ug/l  | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 439435   | 90.359  | ug/l  | 98       |
| 59) 2-Hexanone                 | 9.47  | 43   | 558545   | 86.098  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.56  | 129  | 137756   | 17.689  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 118304   | 18.136  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 127872   | 18.394  | ug/l  | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 303919   | 18.128  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 124608   | 18.416  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 520366   | 18.594  | ug/l  | 96       |
| 68) m/p-Xylenes                | 10.34 | 106  | 411097   | 37.918  | ug/l  | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 189047   | 18.130  | ug/l  | 100      |
| 70) Styrene                    | 10.70 | 104  | 326070   | 18.379  | ug/l  | 100      |
| 71) Bromoform                  | 10.84 | 173  | 105405   | 17.981  | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.00 | 105  | 529887   | 18.254  | ug/l  | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 214570   | 16.636  | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 154762   | 17.080  | ug/l  | 98       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 158978m  | 18.264  | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 148328   | 18.252  | ug/l  | 97       |
| 78) n-propylbenzene            | 11.34 | 91   | 610919   | 18.660  | ug/l  | 98       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 368217   | 18.156  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 457276   | 18.450  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 56166    | 16.259  | ug/l  | 92       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 435338   | 18.197  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 438927   | 18.508  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 463817   | 18.815  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 514214   | 18.613  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 493750   | 18.767  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 257784   | 18.472  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 265231   | 18.348  | ug/l  | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 421545   | 17.981  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 92696    | 17.871  | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 249742   | 18.208  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 38164    | 16.703  | ug/l  | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 166490   | 17.786 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 75780    | 17.586 | ug/l  | 96       |
| 95) Naphthalene            | 13.82 | 128  | 484091   | 17.323 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 163579   | 17.698 | ug/l  | 99       |

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

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