

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071720\  
 Data File : VX017413.D  
 Acq On : 17 Jul 2020 12:23  
 Operator : JC/SP  
 Sample : VX0717WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0717WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/20/2020 11:50:15 AM

Quant Time: Jul 18 07:21:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071320W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 14 02:59:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 310883   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 495789   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 470706   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 250282   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 208676   | 53.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.96% |      |
| 35) Dibromofluoromethane  | 5.46   | 113 | 171367   | 51.31 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.62% |      |
| 50) Toluene-d8            | 8.70   | 98  | 622788   | 51.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.40% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 233907   | 48.88 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.76%  |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 61178  | 23.256  | ug/l | 98     |
| 3) Chloromethane              | 1.31 | 50  | 66424  | 22.429  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.39 | 62  | 66697  | 22.765  | ug/l | 100    |
| 5) Bromomethane               | 1.63 | 94  | 45492  | 23.852  | ug/l | 94     |
| 6) Chloroethane               | 1.72 | 64  | 40397  | 21.844  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 106304 | 21.497  | ug/l | 96     |
| 8) Diethyl Ether              | 2.17 | 74  | 37450  | 21.425  | ug/l | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 63912  | 22.689  | ug/l | 96     |
| 10) Methyl Iodide             | 2.50 | 142 | 72430  | 20.854  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.01 | 59  | 68373  | 104.007 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 62633  | 22.139  | ug/l | 93     |
| 13) Acrolein                  | 2.28 | 56  | 11062  | 30.697  | ug/l | 93     |
| 14) Allyl chloride            | 2.71 | 41  | 111006 | 22.644  | ug/l | 96     |
| 15) Acrylonitrile             | 3.12 | 53  | 183669 | 115.253 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 149438 | 107.354 | ug/l | 97     |
| 17) Carbon Disulfide          | 2.55 | 76  | 183758 | 22.265  | ug/l | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 81512  | 23.708  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 211078 | 21.973  | ug/l | 100    |
| 20) Methylene Chloride        | 2.84 | 84  | 79770  | 23.487  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 71026  | 21.943  | ug/l | 94     |
| 22) Diisopropyl ether         | 3.82 | 45  | 230615 | 24.696  | ug/l | 98     |
| 23) Vinyl Acetate             | 3.79 | 43  | 975614 | 118.797 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 127266 | 23.190  | ug/l | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 245140 | 110.877 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 111785 | 21.887  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 75638  | 21.309  | ug/l | 96     |
| 28) Bromochloromethane        | 4.98 | 49  | 64167  | 25.311  | ug/l | 92     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 164900 | 115.220 | ug/l | 96     |
| 30) Chloroform                | 5.18 | 83  | 132119 | 22.376  | ug/l | 98     |
| 31) Cyclohexane               | 5.55 | 56  | 101283 | 22.544  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 118567 | 21.722  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 94850  | 20.799  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.79 | 43  | 100038 | 21.212  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 106409 | 19.929  | ug/l | 97     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071320W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 14 02:59:51 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 97235    | 19.634  | ug/l   | 92       |
| 40) Benzene                    | 6.11  | 78   | 277641   | 21.184  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.01  | 41   | 54095    | 21.366  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 104716   | 20.565  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 155645   | 20.653  | ug/l   | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 81046    | 20.245  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 75144    | 22.408  | ug/l   | 96       |
| 46) Dibromomethane             | 7.63  | 93   | 51554    | 21.316  | ug/l   | 95       |
| 47) Bromodichloromethane       | 7.88  | 83   | 106693   | 21.101  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.74  | 41   | 77391    | 21.400  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 28039    | 378.877 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 500574   | 108.937 | ug/l   | 98       |
| 52) Toluene                    | 8.77  | 92   | 179813   | 21.380  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 108391   | 19.898  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 119846   | 20.628  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 74755    | 21.316  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 99634    | 20.011  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 122085   | 20.927  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 270793   | 107.112 | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.47  | 43   | 373733   | 107.761 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.57  | 129  | 84340    | 19.685  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 78717    | 20.633  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 74667    | 18.327  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.12 | 112  | 191732   | 20.044  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 74939    | 19.677  | ug/l   | 97       |
| 67) Ethyl Benzene              | 10.24 | 91   | 325512   | 20.441  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.34 | 106  | 255870   | 42.230  | ug/l   | 96       |
| 69) o-Xylene                   | 10.68 | 106  | 115396   | 19.932  | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 207854   | 20.915  | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 61580    | 19.162  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.00 | 105  | 321178   | 20.471  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 132164   | 21.051  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 107015   | 22.465  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 100978m  | 21.834  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 89733    | 20.081  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.34 | 91   | 370340   | 21.018  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 223990   | 20.628  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 274820   | 20.635  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 36620    | 20.087  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 269666   | 20.955  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 259932   | 20.190  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 279045   | 20.739  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 305049   | 20.239  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 289489   | 20.298  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 157742   | 19.733  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 160240   | 19.841  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 244323   | 20.087  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.58 | 117  | 55545    | 20.515  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 12.37 | 146  | 151637   | 20.186  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 23791    | 18.927  | ug/l   | 90       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 95196    | 18.255 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.76 | 225  | 40243    | 18.924 | ug/l  | 99       |
| 95) Naphthalene            | 13.82 | 128  | 291333   | 19.001 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 94814    | 18.823 | ug/l  | 99       |

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

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