

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082020\  
 Data File : VX018026.D  
 Acq On : 20 Aug 2020 11:45  
 Operator : JC/SP  
 Sample : VX0820WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0820WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/21/2020 10:50:58 AM

Quant Time: Aug 21 01:29:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081920W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 19 05:36:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 504192   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 796557   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 740411   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 390962   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.04   | 65  | 339267   | 45.90 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.80% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 271909   | 45.84 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.68% |      |
| 50) Toluene-d8            | 8.70   | 98  | 950587   | 45.34 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.68% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 374805   | 48.40 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.80% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 136111  | 18.501  | ug/l | 97     |
| 3) Chloromethane              | 1.31 | 50  | 116994  | 16.968  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.39 | 62  | 117349  | 17.955  | ug/l | 96     |
| 5) Bromomethane               | 1.63 | 94  | 77960   | 20.204  | ug/l | 98     |
| 6) Chloroethane               | 1.72 | 64  | 67823   | 17.936  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 182037  | 17.241  | ug/l | 94     |
| 8) Diethyl Ether              | 2.17 | 74  | 52289   | 16.993  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 80548   | 16.221  | ug/l | 99     |
| 10) Methyl Iodide             | 2.50 | 142 | 74708   | 11.667  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 120047  | 84.124  | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 73596   | 16.194  | ug/l | 91     |
| 13) Acrolein                  | 2.28 | 56  | 75434   | 100.069 | ug/l | 94     |
| 14) Allyl chloride            | 2.71 | 41  | 149953  | 18.501  | ug/l | 99     |
| 15) Acrylonitrile             | 3.12 | 53  | 286322  | 91.874  | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 265126  | 91.180  | ug/l | 98     |
| 17) Carbon Disulfide          | 2.55 | 76  | 189489  | 17.185  | ug/l | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 138853  | 18.977  | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 323383  | 18.612  | ug/l | 99     |
| 20) Methylene Chloride        | 2.84 | 84  | 97343   | 18.170  | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 81798   | 17.508  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.82 | 45  | 327338  | 19.265  | ug/l | 90     |
| 23) Vinyl Acetate             | 3.79 | 43  | 1187411 | 91.449  | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 171154  | 18.171  | ug/l | 97     |
| 25) 2-Butanone                | 4.64 | 43  | 402193  | 91.364  | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 150766  | 17.578  | ug/l | 97     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 103108  | 18.709  | ug/l | 98     |
| 28) Bromochloromethane        | 4.98 | 49  | 89884   | 18.466  | ug/l | 97     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 255700  | 93.527  | ug/l | 99     |
| 30) Chloroform                | 5.18 | 83  | 185754  | 18.043  | ug/l | 100    |
| 31) Cyclohexane               | 5.55 | 56  | 143989  | 18.852  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97  | 163371  | 17.493  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 118463  | 17.768  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.80 | 43  | 137842  | 17.280  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 145598  | 16.873  | ug/l | 97     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081920W.M  
 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 132237   | 16.047  | ug/l   | 96       |
| 40) Benzene                    | 6.12  | 78   | 358330   | 17.844  | ug/l   | 97       |
| 41) Methacrylonitrile          | 5.00  | 41   | 83030    | 18.160  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 148720   | 17.435  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 233049   | 18.097  | ug/l   | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 102639   | 17.236  | ug/l   | 91       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 100349   | 17.441  | ug/l   | 95       |
| 46) Dibromomethane             | 7.64  | 93   | 70122    | 17.463  | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.88  | 83   | 151581   | 17.388  | ug/l   | 93       |
| 48) Methyl methacrylate        | 7.74  | 41   | 116239   | 18.208  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 40228    | 307.799 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 798377   | 92.081  | ug/l   | 99       |
| 52) Toluene                    | 8.77  | 92   | 227358   | 17.305  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 160383   | 17.395  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 168847   | 17.564  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 104162   | 17.258  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 154636   | 18.121  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 172037   | 17.947  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 338098   | 81.815  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.47  | 43   | 593428   | 90.326  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 124781   | 16.553  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 110662   | 16.553  | ug/l   | 97       |
| 64) Tetrachloroethene          | 9.32  | 164  | 98742    | 17.463  | ug/l   | 94       |
| 65) Chlorobenzene              | 10.12 | 112  | 263271   | 17.913  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 113130   | 18.197  | ug/l   | 96       |
| 67) Ethyl Benzene              | 10.23 | 91   | 448113   | 18.495  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.34 | 106  | 338545   | 36.295  | ug/l   | 96       |
| 69) o-Xylene                   | 10.68 | 106  | 164537   | 18.293  | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 292592   | 18.855  | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 98798    | 17.705  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 446838   | 17.757  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 211567   | 18.902  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 163453   | 18.620  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 153812m  | 18.500  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 124971   | 17.900  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 510296   | 17.338  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 320900   | 17.890  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 385659   | 17.459  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 55565    | 17.557  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 378727   | 17.955  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 377875   | 18.115  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 399605   | 17.475  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 421064   | 16.721  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 385630   | 16.463  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 224779   | 17.689  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 222420   | 17.866  | ug/l   | 95       |
| 89) n-Butylbenzene             | 12.37 | 91   | 336114   | 17.337  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.58 | 117  | 73066    | 15.684  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 219361   | 18.700  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 42481    | 18.997  | ug/l   | 97       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 141097   | 18.284 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 48238    | 14.647 | ug/l  | 96       |
| 95) Naphthalene            | 13.82 | 128  | 497747   | 20.433 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 140025   | 17.844 | ug/l  | 98       |

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

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