

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX010820\  
 Data File : VX014485.D  
 Acq On : 08 Jan 2020 20:36  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

apatel  
 1/9/2020 2:33:48 PM

Quant Time: Jan 09 07:56:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 07 15:54:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 497269   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 760056   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 692915   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 342536   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 271442   | 48.90 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.80% |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 223662   | 48.61 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.22% |      |
| 50) Toluene-d8              | 8.71   | 98  | 885475   | 49.59 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.18% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 317610   | 48.46 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.92% |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 306429  | 49.636  | ug/l | 98     |
| 3) Chloromethane              | 1.32 | 50  | 319186  | 50.355  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 367778  | 52.069  | ug/l | 98     |
| 5) Bromomethane               | 1.63 | 94  | 207135  | 44.241  | ug/l | 99     |
| 6) Chloroethane               | 1.72 | 64  | 197338  | 51.305  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 390058  | 48.682  | ug/l | 97     |
| 8) Diethyl Ether              | 2.18 | 74  | 175246  | 47.942  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 232108  | 47.616  | ug/l | 99     |
| 10) Methyl Iodide             | 2.50 | 142 | 321704  | 55.115  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 270472  | 233.350 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 229609  | 46.751  | ug/l | 98     |
| 13) Acrolein                  | 2.28 | 56  | 209195  | 225.174 | ug/l | 100    |
| 14) Allyl chloride            | 2.72 | 41  | 414324  | 48.051  | ug/l | 100    |
| 15) Acrylonitrile             | 3.13 | 53  | 688925  | 246.266 | ug/l | 99     |
| 16) Acetone                   | 2.43 | 43  | 657067  | 235.831 | ug/l | 98     |
| 17) Carbon Disulfide          | 2.56 | 76  | 627154  | 45.765  | ug/l | 100    |
| 18) Methyl Acetate            | 2.76 | 43  | 432639  | 54.225  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73  | 783452  | 49.693  | ug/l | 99     |
| 20) Methylene Chloride        | 2.85 | 84  | 262851  | 47.068  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 247222  | 46.109  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.84 | 45  | 839881  | 50.403  | ug/l | 94     |
| 23) Vinyl Acetate             | 3.80 | 43  | 2503493 | 194.052 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 453099  | 49.984  | ug/l | 100    |
| 25) 2-Butanone                | 4.65 | 43  | 984879  | 237.514 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 341137  | 44.425  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 289715  | 48.335  | ug/l | 98     |
| 28) Bromochloromethane        | 5.00 | 49  | 182373  | 47.746  | ug/l | 96     |
| 29) Tetrahydrofuran           | 5.11 | 42  | 620361  | 253.039 | ug/l | 99     |
| 30) Chloroform                | 5.20 | 83  | 441208  | 49.809  | ug/l | 98     |
| 31) Cyclohexane               | 5.57 | 56  | 426273  | 50.239  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 374825  | 49.435  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 338251  | 47.324  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.82 | 43  | 371458  | 47.845  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 321244  | 48.840  | ug/l | 95     |

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Quant Time: Jan 09 07:56:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 07 15:54:41 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 427048   | 47.556  | ug/l   | 97       |
| 40) Benzene                    | 6.14  | 78   | 1036543  | 48.861  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.03  | 41   | 212023   | 51.210  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 349613   | 47.135  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.43  | 43   | 619141   | 49.366  | ug/l   | 100      |
| 44) Trichloroethene            | 7.20  | 130  | 304154   | 49.890  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 268392   | 49.624  | ug/l   | 99       |
| 46) Dibromomethane             | 7.65  | 93   | 172969   | 45.820  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.89  | 83   | 342118   | 49.807  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.76  | 41   | 304987   | 50.773  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 118543   | 931.357 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 1901351  | 248.781 | ug/l   | 100      |
| 52) Toluene                    | 8.78  | 92   | 658375   | 48.481  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 379599   | 47.468  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 425832   | 49.294  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 265380   | 48.653  | ug/l   | 100      |
| 56) Ethyl methacrylate         | 9.17  | 69   | 421897   | 50.486  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 443735   | 48.655  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 742215   | 261.048 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 1481228  | 244.944 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 277636   | 50.641  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 280221   | 48.498  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.33  | 164  | 411223   | 59.215  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 701843   | 46.673  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 260185   | 48.484  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 1238244  | 48.311  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.35 | 106  | 949946   | 96.070  | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 461428   | 48.909  | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 796956   | 48.949  | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 213297   | 48.580  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.01 | 105  | 1224500  | 50.907  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 550254   | 51.852  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 360753   | 46.767  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 327810m  | 46.254  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 320613   | 48.064  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 1386193  | 50.321  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 810982   | 49.396  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 1014686  | 50.810  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 134204   | 50.064  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 932449   | 48.385  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 867207   | 45.960  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 1025245  | 50.808  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 1177654  | 50.205  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 1079093  | 49.575  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 566196   | 47.296  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 561311   | 49.908  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 930932   | 46.776  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.59 | 117  | 187391   | 49.011  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 560973   | 47.828  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 84525    | 48.714  | ug/l   | 99       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 384191   | 46.664 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 184712   | 47.913 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 1180950  | 46.221 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 384430   | 47.572 | ug/l  | 99       |

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

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Sample    : VSTDCCC050
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 27   Sample Multiplier: 1
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