

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX031219\  
 Data File : VX008034.D  
 Acq On : 12 Mar 2019 23:13  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 3/13/2019 10:14:15 AM

Quant Time: Mar 13 06:58:01 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  | 229746   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 331281   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 295971   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 148950   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 115926     | 47.83   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 95.66%  |       |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 104397     | 49.26   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 98.52%  |       |          |
| 50) Toluene-d8              | 8.71  | 98   | 390618     | 50.19   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 100.38% |       |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 137547     | 50.41   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 100.82% |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 86697    | 44.169  | ug/l  | 99     |
| 3) Chloromethane              | 1.33 | 50   | 113696   | 44.948  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.41 | 62   | 117575   | 46.780  | ug/l  | 99     |
| 5) Bromomethane               | 1.64 | 94   | 61758    | 52.415  | ug/l  | 96     |
| 6) Chloroethane               | 1.72 | 64   | 73936    | 44.281  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 151703   | 46.359  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.19 | 74   | 65966    | 46.553  | ug/l  | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 93265    | 45.992  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.51 | 142  | 145347   | 50.523  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59   | 127192   | 234.672 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 91160    | 46.636  | ug/l  | 96     |
| 13) Acrolein                  | 2.30 | 56   | 78224    | 255.002 | ug/l  | 99     |
| 14) Allyl chloride            | 2.73 | 41   | 181240   | 44.125  | ug/l  | 99     |
| 15) Acrylonitrile             | 3.15 | 53   | 308914   | 225.805 | ug/l  | 100    |
| 16) Acetone                   | 2.45 | 43   | 249089   | 177.566 | ug/l  | 100    |
| 17) Carbon Disulfide          | 2.57 | 76   | 266739   | 44.891  | ug/l  | 100    |
| 18) Methyl Acetate            | 2.78 | 43   | 147563   | 49.515  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 325957   | 48.472  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.86 | 84   | 103930   | 46.552  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 98334    | 45.720  | ug/l  | 97     |
| 22) Diisopropyl ether         | 3.87 | 45   | 349962   | 46.480  | ug/l  | 98     |
| 23) Vinyl Acetate             | 3.82 | 43   | 1476366  | 223.600 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 191773   | 47.329  | ug/l  | 99     |
| 25) 2-Butanone                | 4.70 | 43   | 427008   | 215.010 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 116401   | 43.361  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 115255   | 46.830  | ug/l  | 97     |
| 28) Bromochloromethane        | 5.02 | 49   | 90446    | 47.880  | ug/l  | 96     |
| 29) Tetrahydrofuran           | 5.15 | 42   | 283420   | 228.787 | ug/l  | 98     |
| 30) Chloroform                | 5.21 | 83   | 184718   | 48.193  | ug/l  | 98     |
| 31) Cyclohexane               | 5.58 | 56   | 172211   | 46.244  | ug/l  | 95     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 155915   | 49.028  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 139852   | 46.622  | ug/l  | 100    |
| 37) Ethyl Acetate             | 4.85 | 43   | 161665   | 45.415  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 137509   | 48.286  | ug/l  | 99     |

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Quant Time: Mar 13 06:58:01 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   | 168145   | 46.260  | ug/l   | 99       |
| 40) Benzene                    | 6.15  | 78   | 432582   | 48.440  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.06  | 41   | 92471    | 47.647  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 139890   | 47.900  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.46  | 43   | 252241   | 47.880  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 119662   | 48.623  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 113488   | 48.116  | ug/l   | 97       |
| 46) Dibromomethane             | 7.66  | 93   | 72028    | 48.255  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 138345   | 48.885  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 132630   | 47.884  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 53363    | 937.866 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 817865   | 241.399 | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 269078   | 49.353  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 151543   | 51.304  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 166636   | 49.957  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 110699   | 50.157  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 169171   | 51.050  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 182099   | 49.139  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 441851   | 257.765 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 606423   | 230.545 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 116308   | 50.417  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 117291   | 50.054  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 120046   | 48.945  | ug/l   | 97       |
| 65) Chlorobenzene              | 10.14 | 112  | 296801   | 47.922  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 109844   | 49.486  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 498931   | 48.939  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 384896   | 97.946  | ug/l   | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 186290   | 49.103  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 309589   | 49.868  | ug/l   | 100      |
| 71) Bromoform                  | 10.85 | 173  | 91507    | 48.004  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 500402   | 49.674  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 211047   | 45.891  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 160731   | 46.256  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 155408m  | 49.721  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 133026   | 48.165  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 552512   | 49.439  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 330009   | 48.296  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 413934   | 49.924  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 46645    | 47.703  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 378542   | 48.341  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 407256   | 48.763  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 424156   | 49.903  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 492262   | 50.046  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 441993   | 50.175  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 234867   | 48.068  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 235300   | 47.024  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.38 | 91   | 369333   | 49.487  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 71425    | 48.495  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 230103   | 47.405  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 33374    | 45.957  | ug/l   | 97       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 164227   | 48.162 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 87645    | 49.162 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 491866   | 50.062 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 164936   | 48.555 | ug/l  | 98       |

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

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