

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX030520\  
 Data File : VX015096.D  
 Acq On : 05 Mar 2020 08:44  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 3/6/2020 4:49:28 PM

Quant Time: Mar 06 03:27:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 04 14:19:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 384462   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 560117   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 520173   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 280404   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 224351   | 49.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.38%  |      |
| 35) Dibromofluoromethane  | 5.48   | 113 | 182437   | 51.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.26% |      |
| 50) Toluene-d8            | 8.71   | 98  | 708145   | 52.68 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.36% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 252346   | 52.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.26% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 171458  | 50.929  | ug/l | 98     |
| 3) Chloromethane              | 1.32 | 50  | 237217  | 49.742  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 246097  | 50.892  | ug/l | 100    |
| 5) Bromomethane               | 1.64 | 94  | 146567  | 49.301  | ug/l | 99     |
| 6) Chloroethane               | 1.72 | 64  | 147720  | 50.925  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 299300  | 52.017  | ug/l | 97     |
| 8) Diethyl Ether              | 2.18 | 74  | 130823  | 50.198  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 189289  | 52.289  | ug/l | 98     |
| 10) Methyl Iodide             | 2.50 | 142 | 197270  | 48.233  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 180762  | 228.421 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 185491  | 49.648  | ug/l | 99     |
| 13) Acrolein                  | 2.28 | 56  | 158865  | 213.618 | ug/l | 98     |
| 14) Allyl chloride            | 2.72 | 41  | 315471  | 48.426  | ug/l | 98     |
| 15) Acrylonitrile             | 3.13 | 53  | 454546  | 230.641 | ug/l | 100    |
| 16) Acetone                   | 2.43 | 43  | 488124  | 264.254 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.56 | 76  | 492150  | 47.434  | ug/l | 98     |
| 18) Methyl Acetate            | 2.76 | 43  | 197092  | 43.636  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 572415  | 49.029  | ug/l | 99     |
| 20) Methylene Chloride        | 2.85 | 84  | 197744  | 45.743  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 192690  | 48.302  | ug/l | 97     |
| 22) Diisopropyl ether         | 3.84 | 45  | 649593  | 50.050  | ug/l | 96     |
| 23) Vinyl Acetate             | 3.80 | 43  | 2688619 | 252.006 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 343816  | 47.730  | ug/l | 99     |
| 25) 2-Butanone                | 4.65 | 43  | 684396  | 253.080 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.57 | 77  | 283606  | 49.595  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 220079  | 49.174  | ug/l | 99     |
| 28) Bromochloromethane        | 5.00 | 49  | 167903  | 51.188  | ug/l | 96     |
| 29) Tetrahydrofuran           | 5.11 | 42  | 396209  | 227.288 | ug/l | 99     |
| 30) Chloroform                | 5.20 | 83  | 345522  | 49.213  | ug/l | 100    |
| 31) Cyclohexane               | 5.57 | 56  | 325025  | 50.586  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 296827  | 51.002  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 266489  | 51.465  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.81 | 43  | 248621  | 51.762  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 260359  | 53.269  | ug/l | 99     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 3/6/2020 4:49:28 PM

Quant Time: Mar 06 03:27:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 04 14:19:10 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 333381   | 55.138  | ug/l   | 99       |
| 40) Benzene                    | 6.13  | 78   | 785497   | 51.131  | ug/l   | 97       |
| 41) Methacrylonitrile          | 5.02  | 41   | 140050   | 48.543  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 277881   | 52.672  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 421531   | 49.887  | ug/l   | 99       |
| 44) Trichloroethene            | 7.20  | 130  | 222205   | 51.937  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 204974   | 51.547  | ug/l   | 99       |
| 46) Dibromomethane             | 7.65  | 93   | 131654   | 50.812  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.89  | 83   | 272270   | 53.139  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.76  | 41   | 213917   | 49.741  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 90150    | 969.522 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.63  | 43   | 1279486  | 256.104 | ug/l   | 100      |
| 52) Toluene                    | 8.78  | 92   | 501500   | 53.390  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 298471   | 54.729  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 330990   | 53.685  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 196735   | 50.886  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 298592   | 54.145  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 335064   | 51.513  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 839098   | 279.304 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 1009157  | 272.529 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 217380   | 53.525  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 206382   | 50.822  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.33  | 164  | 227468   | 52.889  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.13 | 112  | 538054   | 51.522  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 201113   | 51.072  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 962915   | 54.299  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.35 | 106  | 745620   | 110.511 | ug/l   | 100      |
| 69) o-Xylene                   | 10.69 | 106  | 352661   | 54.593  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 615719   | 55.590  | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 165195   | 54.097  | ug/l # | 97       |
| 73) Isopropylbenzene           | 11.01 | 105  | 950180   | 53.046  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 376020   | 49.811  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 284346   | 47.632  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 241078m  | 43.102  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 246370   | 49.353  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 1111917  | 54.334  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 635693   | 52.016  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 808062   | 54.191  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 97279    | 49.360  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.50 | 91   | 757921   | 52.493  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 762275   | 52.869  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 808987   | 54.004  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 951024   | 54.640  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 889444   | 55.466  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 444467   | 50.648  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 454755   | 50.193  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 803024   | 56.304  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.59 | 117  | 155999   | 51.457  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 441371   | 50.588  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 59100    | 49.441  | ug/l   | 98       |

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Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
3/6/2020 4:49:28 PM

Quant Time: Mar 06 03:27:50 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030420W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 04 14:19:10 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 327227   | 54.032 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 160158   | 51.535 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 900697   | 48.569 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 323503   | 53.538 | ug/l  | 99       |

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

