

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052120\  
 Data File : VX016376.D  
 Acq On : 21 May 2020 11:53  
 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  
 5/22/2020 4:02:51 PM

Quant Time: May 22 08:20:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 256105   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.82  | 114  | 400948   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 370095   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 185061   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |       |
|---------------------------|--------|-----|----------|-------|--------|-------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 136967   | 40.64 | ug/l   | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 81.28% |       |
| 35) Dibromofluoromethane  | 5.46   | 113 | 115341   | 45.41 | ug/l   | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.82% |       |
| 50) Toluene-d8            | 8.70   | 98  | 440937   | 45.05 | ug/l   | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.10% |       |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 172211   | 46.26 | ug/l   | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.52% |       |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 127395  | 46.995  | ug/l | 98     |
| 3) Chloromethane              | 1.31 | 50  | 135990  | 43.197  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 158567  | 47.210  | ug/l | 99     |
| 5) Bromomethane               | 1.62 | 94  | 59887   | 35.367  | ug/l | 99     |
| 6) Chloroethane               | 1.70 | 64  | 97205   | 47.565  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 213712  | 48.466  | ug/l | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 87230   | 46.950  | ug/l | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 120152  | 47.229  | ug/l | 99     |
| 10) Methyl Iodide             | 2.49 | 142 | 113821  | 33.308  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.01 | 59  | 180416  | 211.705 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 125104  | 46.992  | ug/l | 97     |
| 13) Acrolein                  | 2.27 | 56  | 124610  | 233.666 | ug/l | 99     |
| 14) Allyl chloride            | 2.70 | 41  | 211858  | 43.402  | ug/l | 93     |
| 15) Acrylonitrile             | 3.11 | 53  | 405617  | 229.434 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 337677  | 224.564 | ug/l | 95     |
| 17) Carbon Disulfide          | 2.54 | 76  | 352165  | 44.024  | ug/l | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 164293  | 44.437  | ug/l | 96     |
| 19) Methyl tert-butyl Ether   | 3.16 | 73  | 455516  | 49.634  | ug/l | 98     |
| 20) Methylene Chloride        | 2.83 | 84  | 144458  | 46.602  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 142116  | 47.903  | ug/l | 95     |
| 22) Diisopropyl ether         | 3.82 | 45  | 423466  | 45.984  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.78 | 43  | 1868068 | 230.572 | ug/l | 97     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 247894  | 48.121  | ug/l | 99     |
| 25) 2-Butanone                | 4.63 | 43  | 542988  | 224.091 | ug/l | 96     |
| 26) 2,2-Dichloropropane       | 4.54 | 77  | 228848  | 48.644  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 163893  | 50.532  | ug/l | 94     |
| 28) Bromochloromethane        | 4.98 | 49  | 95827   | 40.795  | ug/l | 91     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 353578  | 220.225 | ug/l | 93     |
| 30) Chloroform                | 5.17 | 83  | 254682  | 49.654  | ug/l | 95     |
| 31) Cyclohexane               | 5.54 | 56  | 214647  | 45.848  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 230680  | 49.478  | ug/l | 97     |
| 36) 1,1-Dichloropropene       | 5.76 | 75  | 195419  | 49.514  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.79 | 43  | 207116  | 45.277  | ug/l | 97     |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 205968  | 51.343  | 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  
 5/22/2020 4:02:51 PM

Quant Time: May 22 08:20:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 214154   | 45.057  | ug/l   | 100      |
| 40) Benzene                    | 6.11  | 78   | 591830   | 51.249  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.00  | 41   | 111892   | 45.293  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 195741   | 47.053  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 334238   | 45.795  | ug/l   | 96       |
| 44) Trichloroethene            | 7.19  | 130  | 183979   | 44.845  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 150495   | 51.503  | ug/l   | 98       |
| 46) Dibromomethane             | 7.63  | 93   | 98796    | 49.753  | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.87  | 83   | 209682   | 51.847  | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.74  | 41   | 158658   | 45.876  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 74003    | 892.193 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1048133  | 234.673 | ug/l   | 95       |
| 52) Toluene                    | 8.76  | 92   | 383614   | 53.294  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 244046   | 50.611  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 259843   | 51.591  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 150228   | 53.047  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 248465   | 53.749  | ug/l   | 90       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 254312   | 51.464  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 601363   | 244.356 | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.48  | 43   | 822035   | 234.363 | ug/l   | 94       |
| 60) Dibromochloromethane       | 9.57  | 129  | 171592   | 55.015  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 160183   | 52.218  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 211420   | 46.534  | ug/l   | 100      |
| 65) Chlorobenzene              | 10.12 | 112  | 408563   | 52.722  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 154853   | 54.064  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 724317   | 52.385  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 554445   | 107.028 | ug/l   | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 268739   | 53.968  | ug/l   | 98       |
| 70) Styrene                    | 10.70 | 104  | 469566   | 55.584  | ug/l   | 98       |
| 71) Bromoform                  | 10.84 | 173  | 129079   | 55.314  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 702862   | 52.217  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 294360   | 46.884  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 177964   | 64.879  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 215616m  | 51.344  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 179998   | 51.808  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.34 | 91   | 787811   | 50.311  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 478214   | 51.738  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 589592   | 51.878  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 90698    | 51.469  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 561991   | 51.488  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 499156   | 50.964  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 598657   | 52.103  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 616029   | 46.584  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 594126   | 48.390  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 315622   | 50.594  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 314907   | 49.735  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 485960   | 43.326  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 101321   | 48.051  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 304976   | 50.772  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 52791    | 47.697  | ug/l   | 94       |

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Acq On : 21 May 2020 11:53  
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  
5/22/2020 4:02:51 PM

Quant Time: May 22 08:20:32 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 06 06:43:32 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 200393   | 45.060 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 75519    | 39.547 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 706025   | 49.029 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 194633   | 44.781 | ug/l  | 99       |

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

