

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110920\  
 Data File : VX019359.D  
 Acq On : 09 Nov 2020 11:51  
 Operator : JC/MD  
 Sample : VX1109WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1109WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 11/10/2020 8:57:34 AM

Quant Time: Nov 10 01:54:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 13:55:07 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 5.63  | 168  | 253592   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.82  | 114  | 422732   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 10.09 | 117  | 388176   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.06 | 152  | 196404   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 6.03  | 65   | 167500   | 51.22   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 102.44% |          |
| 35) Dibromofluoromethane      | 5.46  | 113  | 129528   | 48.78   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 97.56%  |          |
| 50) Toluene-d8                | 8.70  | 98   | 492496   | 49.20   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 98.40%  |          |
| 62) 4-Bromofluorobenzene      | 11.12 | 95   | 189420   | 49.97   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 99.94%  |          |
| Target Compounds              |       |      |          |         |         |          |
|                               |       |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 1.18  | 85   | 40079    | 18.958  | ug/l    | 100      |
| 3) Chloromethane              | 1.31  | 50   | 46146    | 19.538  | ug/l    | 99       |
| 4) Vinyl Chloride             | 1.39  | 62   | 53943    | 19.694  | ug/l    | 98       |
| 5) Bromomethane               | 1.63  | 94   | 39247    | 20.981  | ug/l    | 100      |
| 6) Chloroethane               | 1.72  | 64   | 36443    | 20.838  | ug/l    | 98       |
| 7) Trichlorofluoromethane     | 1.92  | 101  | 84200    | 19.567  | ug/l    | 98       |
| 8) Diethyl Ether              | 2.17  | 74   | 34721    | 21.024  | ug/l    | 96       |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37  | 101  | 47794    | 20.038  | ug/l    | 99       |
| 10) Methyl Iodide             | 2.49  | 142  | 46818    | 20.887  | ug/l    | 98       |
| 11) Tert butyl alcohol        | 3.01  | 59   | 65827    | 101.908 | ug/l    | 100      |
| 12) 1,1-Dichloroethene        | 2.36  | 96   | 46685    | 18.994  | ug/l    | 96       |
| 13) Acrolein                  | 2.27  | 56   | 22750    | 82.641  | ug/l    | 100      |
| 14) Allyl chloride            | 2.70  | 41   | 77899    | 20.925  | ug/l    | 98       |
| 15) Acrylonitrile             | 3.11  | 53   | 142245   | 104.795 | ug/l    | 99       |
| 16) Acetone                   | 2.42  | 43   | 121817   | 107.972 | ug/l    | 98       |
| 17) Carbon Disulfide          | 2.55  | 76   | 122190   | 17.935  | ug/l    | 99       |
| 18) Methyl Acetate            | 2.75  | 43   | 59520    | 21.695  | ug/l    | 99       |
| 19) Methyl tert-butyl Ether   | 3.17  | 73   | 176436   | 20.718  | ug/l    | 99       |
| 20) Methylene Chloride        | 2.83  | 84   | 55681    | 19.658  | ug/l    | 95       |
| 21) trans-1,2-Dichloroethene  | 3.14  | 96   | 53278    | 18.835  | ug/l    | 96       |
| 22) Diisopropyl ether         | 3.82  | 45   | 162631   | 21.913  | ug/l    | 92       |
| 23) Vinyl Acetate             | 3.78  | 43   | 702746   | 106.180 | ug/l    | 98       |
| 24) 1,1-Dichloroethane        | 3.67  | 63   | 97427    | 21.025  | ug/l    | 99       |
| 25) 2-Butanone                | 4.63  | 43   | 190071   | 106.896 | ug/l    | 97       |
| 26) 2,2-Dichloropropane       | 4.55  | 77   | 88855    | 20.397  | ug/l    | 99       |
| 27) cis-1,2-Dichloroethene    | 4.56  | 96   | 61666    | 19.509  | ug/l    | 96       |
| 28) Bromochloromethane        | 4.98  | 49   | 43086    | 20.453  | ug/l    | 92       |
| 29) Tetrahydrofuran           | 5.08  | 42   | 119487   | 106.633 | ug/l    | 97       |
| 30) Chloroform                | 5.17  | 83   | 101080   | 20.493  | ug/l    | 100      |
| 31) Cyclohexane               | 5.54  | 56   | 82622    | 19.986  | ug/l    | 96       |
| 32) 1,1,1-Trichloroethane     | 5.46  | 97   | 90692    | 20.281  | ug/l    | 99       |
| 36) 1,1-Dichloropropene       | 5.76  | 75   | 76077    | 19.489  | ug/l    | 99       |
| 37) Ethyl Acetate             | 4.79  | 43   | 73798    | 20.361  | ug/l    | 99       |
| 38) Carbon Tetrachloride      | 5.75  | 117  | 77036    | 19.361  | ug/l    | 95       |

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 Sample : VX1109WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX1109WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 11/10/2020 8:57:34 AM

Quant Time: Nov 10 01:54:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 13:55:07 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 88790    | 19.023  | ug/l   | 98       |
| 40) Benzene                    | 6.11  | 78   | 219191   | 19.804  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.00  | 41   | 39334    | 20.152  | ug/l   | 100      |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 82710    | 20.277  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 122678   | 20.215  | ug/l   | 99       |
| 44) Trichloroethene            | 7.18  | 130  | 59532    | 18.781  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 56249    | 20.749  | ug/l   | 99       |
| 46) Dibromomethane             | 7.63  | 93   | 38834    | 19.372  | ug/l   | 96       |
| 47) Bromodichloromethane       | 7.87  | 83   | 78997    | 19.993  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.74  | 41   | 60148    | 20.592  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 26956    | 414.969 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 371674   | 106.557 | ug/l   | 99       |
| 52) Toluene                    | 8.76  | 92   | 141333   | 19.827  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 86618    | 19.193  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 93954    | 19.798  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 56407    | 20.027  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 84797    | 19.932  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 96397    | 20.300  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 223812   | 94.068  | ug/l   | 96       |
| 59) 2-Hexanone                 | 9.47  | 43   | 286658   | 107.964 | ug/l   | 97       |
| 60) Dibromochloromethane       | 9.56  | 129  | 58829    | 19.246  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 58296    | 19.355  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 56804    | 19.207  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.12 | 112  | 149243   | 18.811  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 53745    | 18.817  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 270745   | 19.151  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 201665   | 38.006  | ug/l   | 97       |
| 69) o-Xylene                   | 10.68 | 106  | 95933    | 19.062  | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 162338   | 18.905  | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 40509    | 17.888  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 265363   | 19.087  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 99584    | 19.591  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 85802    | 19.748  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 82817m   | 20.422  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 61859    | 17.928  | ug/l   | 91       |
| 78) n-propylbenzene            | 11.34 | 91   | 306753   | 19.329  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 182124   | 19.492  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 224883   | 19.147  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 26817    | 17.411  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 216466   | 18.972  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 214075   | 19.036  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 227227   | 19.164  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 257422   | 19.086  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 235749   | 18.937  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 117463   | 18.280  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 117359   | 17.546  | ug/l   | 95       |
| 89) n-Butylbenzene             | 12.37 | 91   | 218293   | 18.655  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 39044    | 18.452  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.37 | 146  | 113995   | 18.476  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 19279    | 18.126  | ug/l   | 93       |

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Sample : VX1109WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1109WBS01

Manual Integrations  
APPROVED

MMDadoda  
11/10/2020 8:57:34 AM

Quant Time: Nov 10 01:54:47 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 27 13:55:07 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 76740    | 16.558 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.76 | 225  | 33574    | 16.457 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 249761   | 17.111 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 77155    | 17.161 | ug/l  | 98       |

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

