

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX102720\  
 Data File : VX019131.D  
 Acq On : 27 Oct 2020 11:56  
 Operator : JC/SP  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 10/28/2020 12:33:19 PM

Quant Time: Oct 27 13:28:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 13:11:49 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.62  | 168  | 295947   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 485795   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 428214   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 207083   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |        |      |
|---------------------------|--------|-----|----------|------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 23192    | 6.55 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 13.10% |      |
| 35) Dibromofluoromethane  | 5.46   | 113 | 17632    | 5.91 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 11.82% |      |
| 50) Toluene-d8            | 8.70   | 98  | 66696    | 5.80 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 11.60% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 24295    | 5.92 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 11.84% |      |

## Target Compounds

|                               |      |     |        |        | Qvalue   |
|-------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 13025  | 5.542  | ug/l 96  |
| 3) Chloromethane              | 1.31 | 50  | 14404  | 5.691  | ug/l 99  |
| 4) Vinyl Chloride             | 1.39 | 62  | 16833  | 5.323  | ug/l 98  |
| 5) Bromomethane               | 1.64 | 94  | 12910  | 6.463  | ug/l 100 |
| 6) Chloroethane               | 1.71 | 64  | 10904  | 5.115  | ug/l 98  |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 26419  | 4.916  | ug/l 98  |
| 8) Diethyl Ether              | 2.17 | 74  | 9981   | 4.713  | ug/l 98  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 15020  | 5.495  | ug/l 99  |
| 10) Methyl Iodide             | 2.49 | 142 | 8892   | 2.945  | ug/l 98  |
| 11) Tert butyl alcohol        | 3.03 | 59  | 19961  | 27.504 | ug/l 99  |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 15047  | 5.440  | ug/l 96  |
| 13) Acrolein                  | 2.28 | 56  | 13850  | 39.339 | ug/l 97  |
| 14) Allyl chloride            | 2.70 | 41  | 22020  | 5.988  | ug/l 99  |
| 15) Acrylonitrile             | 3.12 | 53  | 39674  | 27.208 | ug/l 98  |
| 16) Acetone                   | 2.42 | 43  | 32742  | 27.962 | ug/l 96  |
| 17) Carbon Disulfide          | 2.55 | 76  | 43249  | 5.644  | ug/l 99  |
| 18) Methyl Acetate            | 2.75 | 43  | 17055  | 5.926  | ug/l 95  |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 50980  | 5.335  | ug/l 99  |
| 20) Methylene Chloride        | 2.83 | 84  | 17175  | 5.166  | ug/l 98  |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 16844  | 5.180  | ug/l 98  |
| 22) Diisopropyl ether         | 3.82 | 45  | 45006  | 5.795  | ug/l 98  |
| 23) Vinyl Acetate             | 3.78 | 43  | 199223 | 29.140 | ug/l 99  |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 28590  | 5.634  | ug/l 98  |
| 25) 2-Butanone                | 4.64 | 43  | 51365  | 27.503 | ug/l 100 |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 26801  | 5.613  | ug/l 100 |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 19240  | 5.260  | ug/l 99  |
| 28) Bromochloromethane        | 4.98 | 49  | 13836  | 6.303  | ug/l 94  |
| 29) Tetrahydrofuran           | 5.09 | 42  | 32832  | 27.615 | ug/l 98  |
| 30) Chloroform                | 5.18 | 83  | 30004  | 5.335  | ug/l 95  |
| 31) Cyclohexane               | 5.54 | 56  | 25041  | 5.573  | ug/l 95  |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 26502  | 5.282  | ug/l 98  |
| 36) 1,1-Dichloropropene       | 5.76 | 75  | 22972  | 5.393  | ug/l 99  |
| 37) Ethyl Acetate             | 4.79 | 43  | 21519  | 5.726  | ug/l 98  |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 22928  | 5.229  | ug/l 98  |

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 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDIC005

Manual Integrations  
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Quant Time: Oct 27 13:28:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 13:11:49 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 28440    | 5.445   | ug/l   | 96       |
| 40) Benzene                    | 6.11  | 78   | 66209    | 5.302   | ug/l   | 95       |
| 41) Methacrylonitrile          | 5.01  | 41   | 11118    | 5.732   | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 24449    | 5.728   | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 35282    | 5.738   | ug/l   | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 18752    | 5.244   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 16166    | 5.505   | ug/l   | 97       |
| 46) Dibromomethane             | 7.63  | 93   | 11550    | 5.220   | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.87  | 83   | 22518    | 5.204   | ug/l   | 96       |
| 48) Methyl methacrylate        | 7.74  | 41   | 16232    | 5.598   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 7625     | 101.930 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 102134   | 28.434  | ug/l   | 99       |
| 52) Toluene                    | 8.76  | 92   | 42200    | 5.225   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 25399    | 5.311   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 27234    | 5.347   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 16669    | 5.183   | ug/l   | 94       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 24063    | 5.183   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 28302    | 5.374   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 70528    | 28.044  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 77634    | 28.412  | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.56  | 129  | 16925    | 4.937   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 17222    | 5.047   | ug/l   | 97       |
| 64) Tetrachloroethene          | 9.32  | 164  | 17622    | 5.399   | ug/l   | 99       |
| 65) Chlorobenzene              | 10.12 | 112  | 45819    | 5.358   | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 16066    | 5.253   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 80960    | 5.410   | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 60515    | 10.522  | ug/l   | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 28294    | 5.134   | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 46949    | 5.113   | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 11593    | 4.813   | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.00 | 105  | 78598    | 5.647   | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 27380    | 6.066   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 23852    | 5.486   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 22367m   | 5.780   | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 18593    | 5.334   | ug/l   | 93       |
| 78) n-propylbenzene            | 11.34 | 91   | 89246    | 5.713   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 52011    | 5.663   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 64472    | 5.613   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 7566     | 5.167   | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 63253    | 5.817   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.75 | 119  | 61994    | 5.525   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 64629    | 5.564   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 73930    | 5.488   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 67182    | 5.387   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 35757    | 5.543   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 36649    | 5.452   | ug/l   | 93       |
| 89) n-Butylbenzene             | 12.37 | 91   | 62695    | 5.515   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 10469    | 5.018   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 34007    | 5.383   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 5404     | 5.629   | ug/l   | 95       |

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Acq On : 27 Oct 2020 11:56  
Operator : JC/SP  
Sample : VSTDICC005  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Manual Integrations  
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MMDadoda  
10/28/2020 12:33:19 PM

Quant Time: Oct 27 13:28:04 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 27 13:11:49 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 23889    | 5.425 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 10338    | 5.284 | ug/l  | 97       |
| 95) Naphthalene            | 13.82 | 128  | 72904    | 5.257 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 23089    | 5.345 | ug/l  | 99       |

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

