

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022421\  
 Data File : VX020894.D  
 Acq On : 24 Feb 2021 11:21  
 Operator : JC/MD  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

MMDadoda  
 2/25/2021 1:08:42 PM

Quant Time: Feb 24 12:58:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 24 12:56:13 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 5.629  | 168  | 223366   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.829  | 114  | 391557   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.094 | 117  | 339395   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.059 | 152  | 145585   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 0.000  | 65    | 0d       | 0.00     | ug/l |        |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 0.00%# |
| 35) Dibromofluoromethane  | 0.000  | 113   | 0d       | 0.00     | ug/l |        |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 0.00%# |
| 50) Toluene-d8            | 0.000  | 98    | 0d       | 0.00     | ug/l |        |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 0.00%# |
| 62) 4-Bromofluorobenzene  | 0.000  | 95    | 0d       | 0.00     | ug/l |        |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 0.00%# |

## Target Compounds

|                              |       |     |       |      |        | Qvalue |
|------------------------------|-------|-----|-------|------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.187 | 85  | 2428  | 1.09 | ug/l   | 98     |
| 3) Chloromethane             | 1.317 | 50  | 2940  | 1.37 | ug/l   | 94     |
| 4) Vinyl Chloride            | 1.393 | 62  | 3211  | 1.31 | ug/l   | 100    |
| 6) Chloroethane              | 1.711 | 64  | 2150  | 1.50 | ug/l   | 94     |
| 7) Trichlorofluoromethane    | 1.917 | 101 | 4151  | 1.07 | ug/l   | 89     |
| 8) Diethyl Ether             | 2.170 | 74  | 2136  | 1.47 | ug/l   | 87     |
| 9) 1,1,2-Trichlorotrifluo... | 2.364 | 101 | 2526  | 1.14 | ug/l   | 99     |
| 12) 1,1-Dichloroethene       | 2.358 | 96  | 2637  | 1.20 | ug/l   | 89     |
| 14) Allyl chloride           | 2.705 | 41  | 3969  | 1.25 | ug/l   | 99     |
| 15) Acrylonitrile            | 3.117 | 53  | 7175  | 6.03 | ug/l   | 99     |
| 16) Acetone                  | 2.417 | 43  | 7791  | 7.42 | ug/l   | 97     |
| 17) Carbon Disulfide         | 2.546 | 76  | 7442  | 1.22 | ug/l   | 99     |
| 18) Methyl Acetate           | 2.746 | 43  | 2905  | 1.17 | ug/l   | 99     |
| 19) Methyl tert-butyl Ether  | 3.164 | 73  | 9090  | 1.25 | ug/l   | 100    |
| 20) Methylene Chloride       | 2.834 | 84  | 3535  | 1.35 | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene | 3.134 | 96  | 3115  | 1.27 | ug/l   | 91     |
| 22) Diisopropyl ether        | 3.823 | 45  | 8439  | 1.33 | ug/l   | 99     |
| 23) Vinyl Acetate            | 3.782 | 43  | 34118 | 6.29 | ug/l   | 99     |
| 24) 1,1-Dichloroethane       | 3.670 | 63  | 4958  | 1.20 | ug/l   | 98     |
| 25) 2-Butanone               | 4.635 | 43  | 9831  | 6.45 | ug/l   | 96     |
| 26) 2,2-Dichloropropane      | 4.552 | 77  | 4701  | 1.23 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene   | 4.558 | 96  | 3479  | 1.26 | ug/l   | 92     |
| 28) Bromochloromethane       | 4.982 | 49  | 2089  | 1.23 | ug/l # | 100    |
| 29) Tetrahydrofuran          | 5.099 | 42  | 6326  | 6.78 | ug/l   | 95     |
| 30) Chloroform               | 5.170 | 83  | 5063  | 1.12 | ug/l   | 91     |
| 32) 1,1,1-Trichloroethane    | 5.458 | 97  | 4366  | 1.08 | ug/l # | 50     |
| 36) 1,1-Dichloropropene      | 5.770 | 75  | 4051  | 1.13 | ug/l   | 95     |
| 37) Ethyl Acetate            | 4.793 | 43  | 3354  | 1.02 | ug/l # | 93     |
| 38) Carbon Tetrachloride     | 5.752 | 117 | 3999  | 0.99 | ug/l   | 97     |
| 39) Methylcyclohexane        | 7.435 | 83  | 4856  | 1.18 | ug/l   | 97     |
| 40) Benzene                  | 6.111 | 78  | 11329 | 1.05 | ug/l   | 99     |
| 41) Methacrylonitrile        | 4.999 | 41  | 1951  | 1.12 | ug/l # | 86     |
| 42) 1,2-Dichloroethane       | 6.152 | 62  | 3726  | 0.98 | ug/l   | 99     |
| 43) Isopropyl Acetate        | 6.405 | 43  | 5799  | 1.12 | ug/l   | 97     |
| 44) Trichloroethene          | 7.188 | 130 | 2890  | 0.92 | ug/l   | 96     |
| 45) 1,2-Dichloropropane      | 7.488 | 63  | 2828  | 1.06 | ug/l   | 99     |

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 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
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Manual Integrations  
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 2/25/2021 1:08:42 PM

Quant Time: Feb 24 12:58:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 24 12:56:13 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) Dibromomethane            | 7.635  | 93   | 1917     | 0.97  | ug/l   | 96       |
| 47) Bromodichloromethane      | 7.870  | 83   | 3905     | 0.96  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.741  | 41   | 3017     | 1.19  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 7.717  | 88   | 1329     | 21.13 | ug/l # | 74       |
| 51) 4-Methyl-2-Pentanone      | 8.618  | 43   | 17139    | 5.41  | ug/l   | 99       |
| 52) Toluene                   | 8.765  | 92   | 7057     | 1.04  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 9.023  | 75   | 4240     | 1.01  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 8.412  | 75   | 4746     | 1.06  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 9.194  | 97   | 2717     | 0.95  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.159  | 69   | 4341     | 1.13  | ug/l # | 87       |
| 57) 1,3-Dichloropropane       | 9.347  | 76   | 4682     | 1.00  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 8.288  | 63   | 9782     | 5.37  | ug/l   | 97       |
| 59) 2-Hexanone                | 9.471  | 43   | 12855    | 5.43  | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.565  | 129  | 2702     | 0.84  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 9.653  | 107  | 2844     | 0.94  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.318  | 164  | 2444     | 0.82  | ug/l   | 91       |
| 65) Chlorobenzene             | 10.118 | 112  | 7341     | 1.02  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 10.200 | 131  | 2649     | 0.96  | ug/l # | 67       |
| 67) Ethyl Benzene             | 10.235 | 91   | 13132    | 1.09  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.341 | 106  | 9514     | 2.08  | ug/l   | 97       |
| 69) o-Xylene                  | 10.682 | 106  | 4593     | 1.07  | ug/l   | 100      |
| 70) Styrene                   | 10.694 | 104  | 7485     | 1.03  | ug/l   | 97       |
| 71) Bromoform                 | 10.841 | 173  | 1927     | 0.89  | ug/l # | 95       |
| 73) Isopropylbenzene          | 11.000 | 105  | 12047    | 1.20  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.877 | 43   | 4720     | 1.43  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.253 | 83   | 3877     | 1.18  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 11.277 | 75   | 3376m    | 1.06  | ug/l   |          |
| 77) Bromobenzene              | 11.236 | 156  | 2676     | 1.01  | ug/l   | 92       |
| 78) n-propylbenzene           | 11.341 | 91   | 13601    | 1.22  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.400 | 91   | 8560     | 1.25  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.488 | 105  | 9548     | 1.13  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 11.494 | 91   | 9536     | 1.17  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 11.753 | 119  | 9476     | 1.18  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 11.789 | 105  | 10006    | 1.19  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.930 | 105  | 11061    | 1.17  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.047 | 119  | 10428    | 1.20  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 12.006 | 146  | 5026     | 1.05  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.083 | 146  | 4905m    | 0.99  | ug/l   |          |
| 89) n-Butylbenzene            | 12.371 | 91   | 8831     | 1.15  | ug/l   | 97       |
| 90) Hexachloroethane          | 12.577 | 117  | 1969     | 1.17  | ug/l   | 85       |
| 91) 1,2-Dichlorobenzene       | 12.377 | 146  | 4892     | 1.02  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.983 | 75   | 896      | 1.16  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 13.624 | 180  | 2728     | 0.87  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.765 | 225  | 1296     | 0.78  | ug/l   | 96       |
| 95) Naphthalene               | 13.818 | 128  | 9377     | 1.00  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 14.001 | 180  | 2669     | 0.84  | ug/l   | 98       |

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

**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDIC001

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