

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121421\  
 Data File : VX025796.D  
 Acq On : 14 Dec 2021 23:34  
 Operator : JC/MD  
 Sample : VX1214WBS03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1214WBS03

Quant Time: Dec 15 07:12:35 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/15/2021  
 Supervised By : Mahesh Dadoda 12/21/2021

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 111190              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 187317              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 176304              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 87063               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 82689               | 51.686  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 103.380% |         |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 69640               | 53.308  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 106.620% |         |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 254802              | 53.532  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 107.060% |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.085         | 95   | 93516               | 51.722  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 103.440% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 26269               | 26.417  | ug/l   | 97       |
| 3) Chloromethane             | 1.294          | 50   | 28204               | 21.782  | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 29741               | 21.593  | ug/l   | 99       |
| 5) Bromomethane              | 1.599          | 94   | 19797               | 20.130  | ug/l   | 100      |
| 6) Chloroethane              | 1.685          | 64   | 20080               | 20.129  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 47835               | 21.026  | ug/l   | 97       |
| 8) Diethyl Ether             | 2.136          | 74   | 17874               | 19.917  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 25295               | 21.366  | ug/l   | 98       |
| 10) Methyl Iodide            | 2.453          | 142  | 33955               | 22.510  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 2.965          | 59   | 31874               | 99.321  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 25328               | 21.517  | ug/l   | 97       |
| 13) Acrolein                 | 2.239          | 56   | 18403               | 83.895  | ug/l   | 100      |
| 14) Allyl chloride           | 2.666          | 41   | 39885               | 18.566  | ug/l   | 98       |
| 15) Acrylonitrile            | 3.069          | 53   | 76581               | 102.220 | ug/l   | 98       |
| 16) Acetone                  | 2.380          | 43   | 66640               | 82.199  | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.514          | 76   | 62643               | 18.579  | ug/l   | 98       |
| 18) Methyl Acetate           | 2.703          | 43   | 48637               | 19.947  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 84746               | 20.384  | ug/l   | 98       |
| 20) Methylene Chloride       | 2.788          | 84   | 29065               | 19.778  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 27855               | 21.204  | ug/l   | 98       |
| 22) Diisopropyl ether        | 3.764          | 45   | 86155               | 20.675  | ug/l   | 96       |
| 23) Vinyl Acetate            | 3.727          | 43   | 325528              | 100.948 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 48669               | 20.455  | ug/l   | 97       |
| 25) 2-Butanone               | 4.562          | 43   | 105015              | 97.597  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 4.483          | 77   | 28962               | 16.048  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 4.495          | 96   | 31397               | 20.157  | ug/l   | 99       |
| 28) Bromochloromethane       | 4.898          | 49   | 20180               | 18.820  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 5.007          | 42   | 70290               | 102.745 | ug/l   | 99       |
| 30) Chloroform               | 5.099          | 83   | 52668               | 20.182  | ug/l   | 99       |
| 31) Cyclohexane              | 5.477          | 56   | 44044               | 22.638  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 45906               | 20.212  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.702          | 75   | 37509               | 21.173  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.721          | 43   | 40191               | 20.420  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.684          | 117  | 40273               | 19.538  | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.385          | 83   | 43991               | 22.192  | ug/l   | 96       |
| 40) Benzene                  | 6.044          | 78   | 112571              | 21.302  | ug/l   | 98       |

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 Sample : VX1214WBS03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1214WBS03

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/15/2021  
 Supervised By : Mahesh Dadoda 12/21/2021

Quant Time: Dec 15 07:12:35 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.928  | 41   | 22175    | 20.357  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 41615    | 20.719  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 6.342  | 43   | 61738    | 19.469  | ug/l   | 99       |
| 44) Trichloroethene           | 7.129  | 130  | 31266    | 21.251  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 27872    | 20.925  | ug/l   | 97       |
| 46) Dibromomethane            | 7.586  | 93   | 20995    | 20.247  | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.824  | 83   | 39151    | 19.156  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.696  | 41   | 30673    | 20.540  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 13341    | 409.225 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 212349   | 102.294 | ug/l   | 100      |
| 52) Toluene                   | 8.720  | 92   | 72428    | 21.510  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 35056    | 17.995  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 8.372  | 75   | 41353    | 19.400  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 29984    | 20.764  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 9.122  | 69   | 41784    | 20.149  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 48482    | 20.469  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 89193    | 98.183  | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 160700   | 102.172 | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.525  | 129  | 29679    | 18.109  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 31097    | 19.861  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 30885    | 21.962  | ug/l   | 96       |
| 65) Chlorobenzene             | 10.079 | 112  | 78993    | 21.495  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 28114    | 19.590  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 136930   | 22.034  | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.305 | 106  | 107918   | 44.627  | ug/l   | 99       |
| 69) o-Xylene                  | 10.646 | 106  | 53761    | 22.599  | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 87159    | 22.018  | ug/l   | 100      |
| 71) Bromoform                 | 10.799 | 173  | 20871    | 17.655  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.963 | 105  | 136845   | 21.657  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.848 | 43   | 49432    | 19.450  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 44359    | 20.143  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 38847m   | 19.474  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 35131    | 21.675  | ug/l   | 96       |
| 78) n-propylbenzene           | 11.305 | 91   | 156303   | 21.869  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 93856    | 20.651  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 116855   | 22.298  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 8773     | 13.635  | ug/l # | 82       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 109141   | 21.445  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 112532   | 21.907  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 115743   | 22.109  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 140989   | 22.835  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 116683   | 22.503  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 63633    | 21.071  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 63357    | 20.549  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 93199    | 21.548  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.542 | 117  | 16763    | 16.449  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 63584    | 22.048  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 8434     | 17.043  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 33518    | 21.358  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 14164    | 23.089  | ug/l   | 99       |
| 95) Naphthalene               | 13.780 | 128  | 111601   | 20.272  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 33964    | 21.554  | ug/l   | 99       |

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Sample : VX1214WBS03  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1214WBS03

Manual Integrations  
APPROVED

Reviewed By : John Carlone 12/15/2021  
Supervised By : Mahesh Dadoda 12/21/2021

Quant Time: Dec 15 07:12:35 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

