

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX033122\  
 Data File : VX027867.D  
 Acq On : 31 Mar 2022 23:39  
 Operator : JC/MD  
 Sample : VX0331WBS02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0331WBS02

Quant Time: Apr 01 05:06:50 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 04:39:27 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 04/01/2022  
 Supervised By : Mahesh Dadoda 04/01/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 68135               | 50.000  | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 115087              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 103454              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 47673               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.964          | 65   | 55650               | 63.301  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 126.600% |         |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 41048               | 55.257  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 110.520% |         |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 134980              | 51.643  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 103.280% |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.085         | 95   | 55717               | 50.163  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 100.320% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 13575               | 21.987  | ug/l   | 92       |
| 3) Chloromethane             | 1.294          | 50   | 10765               | 19.731  | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 11911               | 21.287  | ug/l   | 100      |
| 5) Bromomethane              | 1.599          | 94   | 6712                | 26.603  | ug/l   | 99       |
| 6) Chloroethane              | 1.685          | 64   | 7399                | 19.617  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 20781               | 21.172  | ug/l   | 98       |
| 8) Diethyl Ether             | 2.136          | 74   | 7927                | 22.499  | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 13304               | 20.853  | ug/l   | 97       |
| 10) Methyl Iodide            | 2.453          | 142  | 14898               | 20.108  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 2.965          | 59   | 20682               | 122.473 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 11431               | 19.528  | ug/l   | 92       |
| 13) Acrolein                 | 2.239          | 56   | 17613               | 139.258 | ug/l   | 96       |
| 14) Allyl chloride           | 2.666          | 41   | 20244               | 18.837  | ug/l # | 93       |
| 15) Acrylonitrile            | 3.069          | 53   | 48898               | 123.319 | ug/l   | 98       |
| 16) Acetone                  | 2.380          | 43   | 40308               | 103.601 | ug/l   | 95       |
| 17) Carbon Disulfide         | 2.508          | 76   | 18373               | 15.343  | ug/l   | 97       |
| 18) Methyl Acetate           | 2.703          | 43   | 20147               | 21.006  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 51988               | 23.310  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 14312               | 20.451  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 12959               | 20.396  | ug/l   | 96       |
| 22) Diisopropyl ether        | 3.764          | 45   | 52512               | 24.381  | ug/l # | 80       |
| 23) Vinyl Acetate            | 3.727          | 43   | 227595              | 122.308 | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 27541               | 22.729  | ug/l   | 95       |
| 25) 2-Butanone               | 4.562          | 43   | 76407               | 134.964 | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 4.483          | 77   | 17516               | 18.099  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 16258               | 21.221  | ug/l   | 91       |
| 28) Bromochloromethane       | 4.910          | 49   | 11960               | 22.947  | ug/l   | 84       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 47170               | 129.711 | ug/l # | 85       |
| 30) Chloroform               | 5.099          | 83   | 31168               | 23.139  | ug/l   | 91       |
| 31) Cyclohexane              | 5.477          | 56   | 20509               | 21.104  | ug/l   | 88       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 26241               | 22.521  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 19660               | 21.013  | ug/l   | 96       |
| 37) Ethyl Acetate            | 4.721          | 43   | 27192               | 23.443  | ug/l   | 94       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 22059               | 21.340  | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.385          | 83   | 19717               | 17.908  | ug/l # | 89       |
| 40) Benzene                  | 6.044          | 78   | 57488               | 20.275  | ug/l   | 97       |

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 Sample : VX0331WBS02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0331WBS02

Quant Time: Apr 01 05:06:50 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 04:39:27 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/01/2022  
 Supervised By : Mahesh Dadoda 04/01/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.928  | 41   | 14734    | 23.882  | ug/l   | 88       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 26784    | 23.640  | ug/l   | 92       |
| 43) Isopropyl Acetate         | 6.348  | 43   | 42004    | 22.609  | ug/l # | 89       |
| 44) Trichloroethene           | 7.129  | 130  | 15067    | 19.553  | ug/l   | 85       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 15321    | 20.114  | ug/l   | 95       |
| 46) Dibromomethane            | 7.586  | 93   | 11315    | 19.737  | ug/l   | 88       |
| 47) Bromodichloromethane      | 7.824  | 83   | 22830    | 19.995  | ug/l   | 95       |
| 48) Methyl methacrylate       | 7.696  | 41   | 21352    | 21.915  | ug/l # | 80       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 9031     | 469.554 | ug/l # | 89       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 146909   | 113.991 | ug/l   | 88       |
| 52) Toluene                   | 8.720  | 92   | 35810    | 20.050  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 20900    | 18.265  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 23419    | 19.436  | ug/l # | 79       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 16310    | 20.589  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 26451    | 21.083  | ug/l # | 75       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 27639    | 20.733  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 62549    | 99.861  | ug/l   | 95       |
| 59) 2-Hexanone                | 9.433  | 43   | 113280   | 114.154 | ug/l   | 84       |
| 60) Dibromochloromethane      | 9.525  | 129  | 15742    | 19.166  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 16829    | 20.332  | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.275  | 164  | 14348    | 20.455  | ug/l   | 92       |
| 65) Chlorobenzene             | 10.079 | 112  | 39802    | 19.537  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 15405    | 20.151  | ug/l   | 97       |
| 67) Ethyl Benzene             | 10.195 | 91   | 73114    | 19.777  | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.305 | 106  | 52108    | 38.323  | ug/l   | 85       |
| 69) o-Xylene                  | 10.646 | 106  | 27894    | 21.003  | ug/l   | 91       |
| 70) Styrene                   | 10.659 | 104  | 45811    | 20.295  | ug/l   | 94       |
| 71) Bromoform                 | 10.805 | 173  | 10689    | 18.979  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 72725    | 20.489  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.848 | 43   | 28625    | 17.904  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 25527    | 21.179  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 23303m   | 20.837  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 17576    | 21.719  | ug/l   | 96       |
| 78) n-propylbenzene           | 11.305 | 91   | 84482    | 19.922  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 53708    | 20.153  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 64170    | 20.835  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 5525     | 17.311  | ug/l # | 78       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 60495    | 19.781  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 58531    | 19.653  | ug/l   | 85       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 61849    | 20.139  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 73472    | 19.990  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 60655    | 19.840  | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 30857    | 19.371  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 30736    | 18.730  | ug/l   | 95       |
| 89) n-Butylbenzene            | 12.335 | 91   | 53393    | 19.423  | ug/l   | 95       |
| 90) Hexachloroethane          | 12.542 | 117  | 8912     | 18.152  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 30338    | 19.280  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 6166     | 21.250  | ug/l   | 76       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 18427    | 19.149  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 8204     | 19.794  | ug/l   | 95       |
| 95) Naphthalene               | 13.780 | 128  | 69677    | 20.738  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 18652    | 19.786  | ug/l   | 97       |

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Sample : VX0331WBS02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0331WBS02

Manual Integrations  
APPROVED

Reviewed By : John Carlone 04/01/2022  
Supervised By : Mahesh Dadoda 04/01/2022

Quant Time: Apr 01 05:06:50 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 30 04:39:27 2022  
Response via : Initial Calibration

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

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

