

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042224\  
 Data File : VX041189.D  
 Acq On : 22 Apr 2024 14:27  
 Operator : JC/MD  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC001

Quant Time: Apr 23 05:21:04 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042224W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 05:06:51 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John Carlone 04/23/2024  
 Supervised By :Mahesh Dadoda 04/23/2024

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 5.550  | 168   | 234554   | 50.000   | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 6.757  | 114   | 323705   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055 | 117   | 277778   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024 | 152   | 135733   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 0.000  | 65    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 78 - 117 | Recovery | =      | 0.000%#  |
| 35) Dibromofluoromethane     | 0.000  | 113   | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 0.000%#  |
| 50) Toluene-d8               | 0.000  | 98    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 92 - 112 | Recovery | =      | 0.000%#  |
| 62) 4-Bromofluorobenzene     | 0.000  | 95    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 83 - 123 | Recovery | =      | 0.000%#  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166  | 85    | 1983     | 1.069    | ug/l   | 100      |
| 3) Chloromethane             | 1.294  | 50    | 2340     | 1.165    | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.380  | 62    | 2123     | 1.057    | ug/l   | 93       |
| 6) Chloroethane              | 1.666  | 64    | 953      | 1.249    | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 1.855  | 101   | 3227     | 1.037    | ug/l   | 100      |
| 8) Diethyl Ether             | 2.136  | 74    | 1193     | 1.042    | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 2.312  | 101   | 1707     | 0.932    | ug/l # | 84       |
| 12) 1,1-Dichloroethene       | 2.306  | 96    | 1532     | 0.896    | ug/l # | 75       |
| 14) Allyl chloride           | 2.660  | 41    | 2837     | 1.022    | ug/l   | 96       |
| 15) Acrylonitrile            | 3.087  | 53    | 5235     | 5.122    | ug/l   | 97       |
| 16) Acetone                  | 2.392  | 43    | 4234     | 5.210    | ug/l   | 92       |
| 17) Carbon Disulfide         | 2.495  | 76    | 3928     | 1.100    | ug/l   | 96       |
| 18) Methyl Acetate           | 2.715  | 43    | 2842     | 1.182    | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 3.123  | 73    | 6259     | 1.024    | ug/l   | 97       |
| 20) Methylene Chloride       | 2.782  | 84    | 2248     | 1.133    | ug/l # | 79       |
| 21) trans-1,2-Dichloroethene | 3.087  | 96    | 2012     | 1.065    | ug/l   | 83       |
| 22) Diisopropyl ether        | 3.769  | 45    | 6072     | 1.011    | ug/l # | 86       |
| 23) Vinyl Acetate            | 3.733  | 43    | 22789    | 4.437    | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.605  | 63    | 3308     | 0.986    | ug/l # | 92       |
| 25) 2-Butanone               | 4.592  | 43    | 6885     | 4.960    | ug/l # | 81       |
| 26) 2,2-Dichloropropane      | 4.471  | 77    | 2627     | 0.926    | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 4.495  | 96    | 2332     | 0.996    | ug/l   | 86       |
| 28) Bromochloromethane       | 4.903  | 49    | 1411     | 1.108    | ug/l # | 74       |
| 29) Tetrahydrofuran          | 5.031  | 42    | 4836     | 5.114    | ug/l   | 97       |
| 30) Chloroform               | 5.086  | 83    | 3478     | 0.965    | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 5.373  | 97    | 2952     | 0.914    | ug/l # | 50       |
| 36) 1,1-Dichloropropene      | 5.690  | 75    | 2696     | 1.070    | ug/l   | 95       |
| 37) Ethyl Acetate            | 4.739  | 43    | 2306     | 0.834    | ug/l # | 87       |
| 38) Carbon Tetrachloride     | 5.672  | 117   | 2663     | 0.946    | ug/l   | 92       |
| 39) Methylcyclohexane        | 7.372  | 83    | 3218     | 0.963    | ug/l   | 92       |
| 40) Benzene                  | 6.043  | 78    | 7707     | 0.990    | ug/l   | 98       |
| 41) Methacrylonitrile        | 4.952  | 41    | 1250m    | 0.869    | ug/l   |          |
| 42) 1,2-Dichloroethane       | 6.092  | 62    | 2645     | 0.980    | ug/l   | 98       |
| 43) Isopropyl Acetate        | 6.354  | 43    | 4206     | 0.945    | ug/l   | 96       |
| 44) Trichloroethene          | 7.129  | 130   | 2409     | 1.065    | ug/l   | 88       |
| 45) 1,2-Dichloropropane      | 7.433  | 63    | 1803     | 0.966    | ug/l # | 88       |

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 Acq On : 22 Apr 2024 14:27  
 Operator : JC/MD  
 Sample : VSTDICC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC001

Quant Time: Apr 23 05:21:04 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042224W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 05:06:51 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 04/23/2024  
 Supervised By : Mahesh Dadoda 04/23/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) Dibromomethane            | 7.592  | 93   | 1329     | 0.955  | ug/l # | 73       |
| 47) Bromodichloromethane      | 7.830  | 83   | 2096     | 0.817  | ug/l   | 86       |
| 48) Methyl methacrylate       | 7.714  | 41   | 1753     | 0.832  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 7.696  | 88   | 741      | 16.346 | ug/l # | 78       |
| 51) 4-Methyl-2-Pentanone      | 8.586  | 43   | 13242    | 4.751  | ug/l   | 100      |
| 52) Toluene                   | 8.720  | 92   | 4912     | 1.002  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.988  | 75   | 2069     | 0.823  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 8.378  | 75   | 2402     | 0.840  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 9.159  | 97   | 1841     | 0.962  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 9.128  | 69   | 2396     | 0.819  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 9.317  | 76   | 3144     | 0.993  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.250  | 63   | 7007     | 4.922  | ug/l   | 95       |
| 59) 2-Hexanone                | 9.445  | 43   | 10169    | 4.758  | ug/l   | 98       |
| 60) Dibromochloromethane      | 9.525  | 129  | 1867     | 0.845  | ug/l   | 92       |
| 61) 1,2-Dibromoethane         | 9.616  | 107  | 1868     | 0.910  | ug/l   | 95       |
| 64) Tetrachloroethene         | 9.275  | 164  | 2343     | 1.100  | ug/l # | 85       |
| 65) Chlorobenzene             | 10.079 | 112  | 5843     | 1.022  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 1715     | 0.876  | ug/l # | 66       |
| 67) Ethyl Benzene             | 10.195 | 91   | 8585     | 0.941  | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.305 | 106  | 6934     | 1.883  | ug/l   | 93       |
| 69) o-Xylene                  | 10.640 | 106  | 3500     | 0.977  | ug/l   | 92       |
| 70) Styrene                   | 10.665 | 104  | 5307     | 0.911  | ug/l   | 91       |
| 71) Bromoform                 | 10.805 | 173  | 1256     | 0.750  | ug/l # | 92       |
| 73) Isopropylbenzene          | 10.963 | 105  | 8472     | 1.003  | ug/l   | 96       |
| 74) N-amyl acetate            | 10.854 | 43   | 2957     | 0.891  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 2778     | 1.043  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 2409m    | 1.102  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 2611     | 1.062  | ug/l   | 74       |
| 78) n-propylbenzene           | 11.305 | 91   | 8981     | 0.985  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 6189     | 1.072  | ug/l   | 90       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 6805     | 0.969  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 6780     | 1.037  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 7138     | 0.949  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 6694     | 0.960  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 8032     | 0.924  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 6897     | 0.901  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 4790     | 1.085  | ug/l   | 93       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 5151     | 1.137  | ug/l   | 81       |
| 89) n-Butylbenzene            | 12.335 | 91   | 4811     | 0.828  | ug/l   | 95       |
| 90) Hexachloroethane          | 12.542 | 117  | 1118     | 0.885  | ug/l   | 59       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 4698     | 1.062  | ug/l   | 93       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 497      | 0.889  | ug/l   | 69       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 2637     | 0.860  | ug/l   | 94       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 1465     | 0.935  | ug/l   | 94       |
| 95) Naphthalene               | 13.780 | 128  | 8162     | 0.927  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 3232     | 1.001  | ug/l   | 93       |

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

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Acq On : 22 Apr 2024 14:27  
Operator : JC/MD  
Sample : VSTDIC001  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001

Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/23/2024  
Supervised By :Mahesh Dadoda 04/23/2024

Quant Time: Apr 23 05:21:04 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042224W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 23 05:06:51 2024  
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