

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112124\  
 Data File : VX043923.D  
 Acq On : 20 Nov 2024 19:16  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112124

Quant Time: Nov 21 07:05:02 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 21 07:00:56 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/21/2024  
 Supervised By : Mahesh Dadoda 11/22/2024

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.550  | 168  | 138810   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.757  | 114  | 250758   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 211620   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152  | 102312   | 50.000 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |       |          |          |            |      |
|---------------------------|--------|-------|----------|----------|------------|------|
| 33) 1,2-Dichloroethane-d4 | 5.952  | 65    | 123698   | 58.016   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 74 - 125 | Recovery | = 116.040% |      |
| 35) Dibromofluoromethane  | 5.379  | 113   | 92258    | 54.792   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 75 - 124 | Recovery | = 109.580% |      |
| 50) Toluene-d8            | 8.647  | 98    | 312682   | 55.587   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 86 - 113 | Recovery | = 111.180% |      |
| 62) 4-Bromofluorobenzene  | 11.079 | 95    | 112440   | 60.492   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 77 - 121 | Recovery | = 120.980% |      |

#### Target Compounds

|                              |       |     |         |         |      | Qvalue |
|------------------------------|-------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane   | 1.166 | 85  | 87148   | 62.046  | ug/l | 98     |
| 3) Chloromethane             | 1.294 | 50  | 98071   | 55.867  | ug/l | 99     |
| 4) Vinyl Chloride            | 1.374 | 62  | 98663   | 55.940  | ug/l | 97     |
| 5) Bromomethane              | 1.593 | 94  | 55648   | 69.459  | ug/l | 100    |
| 6) Chloroethane              | 1.660 | 64  | 49530   | 58.791  | ug/l | 99     |
| 7) Trichlorofluoromethane    | 1.867 | 101 | 174189  | 69.274  | ug/l | 100    |
| 8) Diethyl Ether             | 2.136 | 74  | 61407   | 64.776  | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 78888   | 53.013  | ug/l | 98     |
| 10) Methyl Iodide            | 2.441 | 142 | 108199  | 51.664  | ug/l | 95     |
| 11) Tert butyl alcohol       | 3.001 | 59  | 96228   | 283.818 | ug/l | 99     |
| 12) 1,1-Dichloroethene       | 2.306 | 96  | 77411   | 53.599  | ug/l | 87     |
| 13) Acrolein                 | 2.239 | 56  | 103637  | 272.556 | ug/l | 99     |
| 14) Allyl chloride           | 2.654 | 41  | 136615  | 58.343  | ug/l | 89     |
| 15) Acrylonitrile            | 3.068 | 53  | 241080  | 276.221 | ug/l | 98     |
| 16) Acetone                  | 2.392 | 43  | 227575  | 265.748 | ug/l | 93     |
| 17) Carbon Disulfide         | 2.502 | 76  | 170454  | 54.052  | ug/l | 99     |
| 18) Methyl Acetate           | 2.703 | 43  | 128026  | 54.593  | ug/l | 98     |
| 19) Methyl tert-butyl Ether  | 3.117 | 73  | 308920  | 57.868  | ug/l | 99     |
| 20) Methylene Chloride       | 2.782 | 84  | 92077   | 51.368  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene | 3.087 | 96  | 87463   | 55.548  | ug/l | 97     |
| 22) Diisopropyl ether        | 3.763 | 45  | 296742  | 58.005  | ug/l | 96     |
| 23) Vinyl Acetate            | 3.721 | 43  | 1303089 | 314.256 | ug/l | 98     |
| 24) 1,1-Dichloroethane       | 3.605 | 63  | 169925  | 56.478  | ug/l | 100    |
| 25) 2-Butanone               | 4.562 | 43  | 345310  | 288.244 | ug/l | 97     |
| 26) 2,2-Dichloropropane      | 4.465 | 77  | 141245  | 57.127  | ug/l | 97     |
| 27) cis-1,2-Dichloroethene   | 4.483 | 96  | 106274  | 54.236  | ug/l | 96     |
| 28) Bromochloromethane       | 4.891 | 49  | 68700   | 54.265  | ug/l | 94     |
| 29) Tetrahydrofuran          | 5.007 | 42  | 220135  | 284.374 | ug/l | 97     |
| 30) Chloroform               | 5.086 | 83  | 178903  | 57.044  | ug/l | 100    |
| 31) Cyclohexane              | 5.458 | 56  | 128800  | 52.818  | ug/l | 93     |
| 32) 1,1,1-Trichloroethane    | 5.379 | 97  | 155630  | 58.048  | ug/l | 98     |
| 36) 1,1-Dichloropropene      | 5.684 | 75  | 112658  | 53.685  | ug/l | 99     |
| 37) Ethyl Acetate            | 4.715 | 43  | 139478  | 59.057  | ug/l | 97     |
| 38) Carbon Tetrachloride     | 5.666 | 117 | 124606  | 56.086  | ug/l | 98     |
| 39) Methylcyclohexane        | 7.373 | 83  | 138032  | 52.543  | ug/l | 97     |
| 40) Benzene                  | 6.031 | 78  | 349857  | 53.028  | ug/l | 99     |

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 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICSVVX112124

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/21/2024  
 Supervised By : Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 07:05:02 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 21 07:00:56 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 73757    | 59.928   | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 141058   | 58.882   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 224533   | 60.266   | ug/l   | 94       |
| 44) Trichloroethene           | 7.123  | 130  | 87313    | 48.004   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 87107    | 53.869   | ug/l   | 100      |
| 46) Dibromomethane            | 7.580  | 93   | 69900    | 57.366   | ug/l   | 95       |
| 47) Bromodichloromethane      | 7.818  | 83   | 125370   | 58.559   | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.696  | 41   | 105250   | 56.995   | ug/l # | 88       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 45681m   | 1161.399 | ug/l   |          |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 689501   | 296.806  | ug/l   | 95       |
| 52) Toluene                   | 8.714  | 92   | 217080   | 57.032   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 128331   | 59.078   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.360  | 75   | 139851   | 56.813   | ug/l # | 91       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 86975    | 58.565   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 141716   | 60.268   | ug/l # | 89       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 146448   | 58.860   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 346010   | 280.598  | ug/l   | 98       |
| 59) 2-Hexanone                | 9.433  | 43   | 513732   | 313.432  | ug/l   | 94       |
| 60) Dibromochloromethane      | 9.519  | 129  | 90863    | 62.789   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 89087    | 57.509   | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.269  | 164  | 69945    | 51.529   | ug/l   | 97       |
| 65) Chlorobenzene             | 10.079 | 112  | 230498   | 52.143   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 80691    | 54.848   | ug/l   | 97       |
| 67) Ethyl Benzene             | 10.189 | 91   | 404866   | 54.424   | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.299 | 106  | 300638   | 108.500  | ug/l   | 96       |
| 69) o-Xylene                  | 10.640 | 106  | 149788   | 55.404   | ug/l   | 99       |
| 70) Styrene                   | 10.652 | 104  | 250564   | 56.236   | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173  | 56733    | 49.198   | ug/l # | 97       |
| 73) Isopropylbenzene          | 10.963 | 105  | 387920   | 53.117   | ug/l   | 99       |
| 74) N-amyl acetate            | 10.841 | 43   | 193137   | 51.587   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 134303   | 54.391   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 110813m  | 53.071   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 92179    | 51.501   | ug/l   | 98       |
| 78) n-propylbenzene           | 11.305 | 91   | 441866   | 54.835   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 277003   | 54.025   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 322601   | 53.291   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 39924    | 48.469   | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 313937   | 53.165   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 320262   | 51.719   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 327564   | 53.283   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 389571   | 52.682   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 325801   | 52.472   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 168646   | 50.841   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 167075   | 49.126   | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.329 | 91   | 283194   | 53.527   | ug/l   | 98       |
| 90) Hexachloroethane          | 12.536 | 117  | 55605    | 46.087   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 169920   | 48.926   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 27323    | 45.200   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 98885    | 48.719   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 39642    | 47.658   | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 381936   | 50.468   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 104145   | 49.248   | ug/l   | 99       |

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Manual Integrations  
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Quant Title : SW846 8260  
QLast Update : Thu Nov 21 07:00:56 2024  
Response via : Initial Calibration

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

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

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