

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021723\  
 Data File : VX034171.D  
 Acq On : 17 Feb 2023 20:33  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/21/2023  
 Supervised By : Mahesh Dadoda 02/21/2023

Quant Time: Feb 20 00:38:18 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 17 12:33:35 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 385525     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 653121     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 577982     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 267522     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 253789     | 48.880   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 97.760%  |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 215750     | 50.736   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 101.480% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 811585     | 53.157   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 106.320% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 304717     | 52.178   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 104.360% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 170273     | 51.112   | ug/l   | 98       |
| 3) Chloromethane             | 1.295          | 50   | 246238     | 51.364   | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 252210     | 57.768   | ug/l   | 99       |
| 5) Bromomethane              | 1.612          | 94   | 97928      | 60.563   | ug/l   | 99       |
| 6) Chloroethane              | 1.685          | 64   | 129129     | 58.832   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 328237     | 55.571   | ug/l   | 97       |
| 8) Diethyl Ether             | 2.130          | 74   | 126983     | 53.362   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 198504     | 47.720   | ug/l   | 94       |
| 10) Methyl Iodide            | 2.453          | 142  | 256747     | 50.693   | ug/l   | 93       |
| 11) Tert butyl alcohol       | 2.965          | 59   | 232357     | 200.086  | ug/l # | 83       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 200248     | 48.022   | ug/l   | 95       |
| 13) Acrolein                 | 2.233          | 56   | 113586     | 214.272  | ug/l   | 99       |
| 14) Allyl chloride           | 2.666          | 41   | 404598     | 45.741   | ug/l   | 88       |
| 15) Acrylonitrile            | 3.063          | 53   | 620410     | 244.895  | ug/l   | 99       |
| 16) Acetone                  | 2.380          | 43   | 477869     | 178.419  | ug/l   | 92       |
| 17) Carbon Disulfide         | 2.514          | 76   | 572223     | 47.730   | ug/l   | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 407722     | 49.197   | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 720755     | 48.974   | ug/l   | 98       |
| 20) Methylene Chloride       | 2.788          | 84   | 226279     | 46.889   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 218114     | 49.918   | ug/l   | 94       |
| 22) Diisopropyl ether        | 3.758          | 45   | 823766     | 53.122   | ug/l   | 95       |
| 23) Vinyl Acetate            | 3.721          | 43   | 3199605    | 257.532  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 419540     | 49.282   | ug/l   | 98       |
| 25) 2-Butanone               | 4.550          | 43   | 868139     | 224.016  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 334904     | 43.427   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 258711     | 50.000   | ug/l   | 97       |
| 28) Bromochloromethane       | 4.898          | 49   | 197508     | 52.008   | ug/l   | 86       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 584692     | 247.319  | ug/l   | 98       |
| 30) Chloroform               | 5.093          | 83   | 410802     | 50.254   | ug/l   | 100      |
| 31) Cyclohexane              | 5.471          | 56   | 393943     | 50.819   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 359624     | 49.076   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 312632     | 49.711   | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.709          | 43   | 352728     | 50.185   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 308171     | 47.620   | ug/l   | 100      |
| 39) Methylcyclohexane        | 7.379          | 83   | 395926     | 48.921   | ug/l   | 99       |
| 40) Benzene                  | 6.038          | 78   | 938658     | 50.365   | ug/l   | 99       |

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 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
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Quant Time: Feb 20 00:38:18 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 17 12:33:35 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 200479   | 51.195  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 316176   | 48.236  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 6.336  | 43   | 617882   | 49.817  | ug/l   | 99       |
| 44) Trichloroethene           | 7.123  | 130  | 238707   | 49.911  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 250221   | 50.434  | ug/l   | 98       |
| 46) Dibromomethane            | 7.580  | 93   | 162295   | 49.705  | ug/l   | 87       |
| 47) Bromodichloromethane      | 7.818  | 83   | 329890   | 49.231  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.690  | 41   | 293497   | 49.856  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.671  | 88   | 99089    | 843.885 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 1782426  | 261.205 | ug/l   | 99       |
| 52) Toluene                   | 8.720  | 92   | 588997   | 52.157  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 389731   | 50.528  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 409532   | 49.596  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 235572   | 51.681  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 399890   | 51.860  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 409205   | 51.598  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 873508   | 261.503 | ug/l   | 95       |
| 59) 2-Hexanone                | 9.427  | 43   | 1318433  | 253.521 | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.519  | 129  | 256631   | 50.954  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 246357   | 51.103  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 192826   | 47.270  | ug/l   | 92       |
| 65) Chlorobenzene             | 10.080 | 112  | 607421   | 50.417  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 233852   | 50.139  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 1106935  | 51.141  | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.299 | 106  | 831629   | 100.399 | ug/l   | 95       |
| 69) o-Xylene                  | 10.640 | 106  | 413096   | 50.094  | ug/l   | 95       |
| 70) Styrene                   | 10.653 | 104  | 682261   | 50.871  | ug/l   | 96       |
| 71) Bromoform                 | 10.799 | 173  | 185271   | 48.665  | ug/l   | 100      |
| 73) Isopropylbenzene          | 10.964 | 105  | 1054915  | 51.740  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.842 | 43   | 544355   | 53.144  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 11.214 | 83   | 349603   | 50.133  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 341598m  | 50.745  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 248238   | 50.594  | ug/l   | 81       |
| 78) n-propylbenzene           | 11.305 | 91   | 1244806  | 52.496  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 741756   | 51.015  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 867506   | 50.608  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 128007   | 48.850  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 836487   | 50.511  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 862726   | 49.141  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 877564   | 50.632  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 1085154  | 50.899  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 888076   | 50.332  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 455925   | 49.548  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 450967   | 48.589  | ug/l   | 96       |
| 89) n-Butylbenzene            | 12.335 | 91   | 781448   | 49.726  | ug/l   | 98       |
| 90) Hexachloroethane          | 12.536 | 117  | 184048   | 49.890  | ug/l   | 80       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 445000   | 49.427  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 81879    | 49.238  | ug/l   | 76       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 290675   | 50.289  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 114280   | 47.693  | ug/l   | 99       |
| 95) Naphthalene               | 13.774 | 128  | 982263   | 50.446  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 286562   | 49.937  | ug/l   | 98       |

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Manual Integrations  
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Reviewed By :John Carlone 02/21/2023  
Supervised By :Mahesh Dadoda 02/21/2023

Quant Time: Feb 20 00:38:18 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 17 12:33:35 2023  
Response via : Initial Calibration

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

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

