

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022624\  
 Data File : VX040448.D  
 Acq On : 26 Feb 2024 09:45  
 Operator : JC/MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 02/27/2024  
 Supervised By :Semsettin Yesilyurt 02/27/2024

Quant Time: Feb 27 04:51:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022624W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 27 04:43:02 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 92880      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 159614     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 147633     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 73153      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 8841       | 5.691    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 11.380%# |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 5804       | 5.229    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 10.460%# |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 21175      | 5.256    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 10.520%# |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 7135       | 4.646    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 9.300%#  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 5890       | 5.096    | ug/l   | 95       |
| 3) Chloromethane             | 1.294          | 50   | 5842       | 5.096    | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 6138       | 4.951    | ug/l   | 97       |
| 5) Bromomethane              | 1.599          | 94   | 3690       | 5.356    | ug/l   | 96       |
| 6) Chloroethane              | 1.685          | 64   | 4797       | 6.114    | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 9949       | 5.081    | ug/l   | 95       |
| 8) Diethyl Ether             | 2.130          | 74   | 3333       | 4.870    | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 5344       | 5.070    | ug/l   | 97       |
| 10) Methyl Iodide            | 2.453          | 142  | 3486       | 6.083    | ug/l   | 97       |
| 11) Tert butyl alcohol       | 2.959          | 59   | 5850       | 22.401   | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 5161       | 4.877    | ug/l # | 86       |
| 13) Acrolein                 | 2.233          | 56   | 3737       | 22.320   | ug/l   | 95       |
| 14) Allyl chloride           | 2.660          | 41   | 9045       | 4.886    | ug/l   | 92       |
| 15) Acrylonitrile            | 3.062          | 53   | 16290      | 24.868   | ug/l   | 98       |
| 16) Acetone                  | 2.373          | 43   | 11946      | 23.580   | ug/l   | 100      |
| 17) Carbon Disulfide         | 2.514          | 76   | 14781      | 5.044    | ug/l   | 100      |
| 18) Methyl Acetate           | 2.703          | 43   | 7300       | 4.674    | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 17001      | 4.710    | ug/l   | 94       |
| 20) Methylene Chloride       | 2.788          | 84   | 6101       | 5.032    | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 5803       | 5.142    | ug/l   | 91       |
| 22) Diisopropyl ether        | 3.757          | 45   | 18697      | 5.026    | ug/l   | 93       |
| 23) Vinyl Acetate            | 3.721          | 43   | 80936      | 23.749   | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 10810      | 4.983    | ug/l   | 99       |
| 25) 2-Butanone               | 4.556          | 43   | 21149      | 23.960   | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 7908       | 4.578    | ug/l   | 93       |
| 27) cis-1,2-Dichloroethene   | 4.495          | 96   | 6564       | 4.972    | ug/l   | 96       |
| 28) Bromochloromethane       | 4.891          | 49   | 5251       | 5.786    | ug/l # | 96       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 15418      | 25.039   | ug/l   | 96       |
| 30) Chloroform               | 5.093          | 83   | 11728      | 5.093    | ug/l   | 93       |
| 31) Cyclohexane              | 5.470          | 56   | 8826       | 5.015    | ug/l   | 90       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 9560       | 4.864    | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 8660       | 5.064    | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.708          | 43   | 9159       | 4.894    | ug/l # | 88       |
| 38) Carbon Tetrachloride     | 5.672          | 117  | 7524       | 4.554    | ug/l # | 84       |
| 39) Methylcyclohexane        | 7.385          | 83   | 9054       | 4.904    | ug/l   | 88       |
| 40) Benzene                  | 6.037          | 78   | 23163      | 5.003    | ug/l   | 91       |

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 Operator : JC/MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/27/2024  
 Supervised By : Semsettin Yesilyurt 02/27/2024

Quant Time: Feb 27 04:51:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022624W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 27 04:43:02 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 4.928  | 41   | 5247     | 5.019  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 9295     | 4.851  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 6.342  | 43   | 13849    | 4.716  | ug/l   | 99       |
| 44) Trichloroethene           | 7.129  | 130  | 6076     | 4.880  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 6386     | 5.154  | ug/l   | 93       |
| 46) Dibromomethane            | 7.580  | 93   | 4423     | 4.855  | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.818  | 83   | 8351     | 4.656  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.690  | 41   | 7023     | 4.785  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 2606     | 93.856 | ug/l # | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.567  | 43   | 46148    | 23.768 | ug/l   | 98       |
| 52) Toluene                   | 8.720  | 92   | 14122    | 4.970  | ug/l   | 93       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 7932     | 4.358  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 8911     | 4.554  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 5866     | 4.975  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 8127     | 4.458  | ug/l # | 91       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 9753     | 4.749  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 22641    | 23.684 | ug/l   | 96       |
| 59) 2-Hexanone                | 9.427  | 43   | 34736    | 23.269 | ug/l   | 98       |
| 60) Dibromochloromethane      | 9.519  | 129  | 5710     | 4.458  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 5985     | 4.651  | ug/l   | 94       |
| 64) Tetrachloroethene         | 9.269  | 164  | 5079     | 4.900  | ug/l   | 95       |
| 65) Chlorobenzene             | 10.079 | 112  | 15486    | 4.932  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 5240     | 4.735  | ug/l   | 97       |
| 67) Ethyl Benzene             | 10.195 | 91   | 27973    | 4.866  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 20462    | 9.533  | ug/l   | 96       |
| 69) o-Xylene                  | 10.640 | 106  | 9745     | 4.747  | ug/l   | 94       |
| 70) Styrene                   | 10.652 | 104  | 15934    | 4.656  | ug/l   | 96       |
| 71) Bromoform                 | 10.799 | 173  | 4109     | 4.536  | ug/l # | 92       |
| 73) Isopropylbenzene          | 10.963 | 105  | 26943    | 5.001  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.841 | 43   | 11341    | 4.533  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 9909     | 5.086  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 7669m    | 4.763  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 6227     | 4.888  | ug/l   | 97       |
| 78) n-propylbenzene           | 11.305 | 91   | 32372    | 4.844  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 20073    | 4.990  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 22604    | 4.933  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 1925     | 5.834  | ug/l # | 79       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 23272    | 5.003  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 21194    | 4.906  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 22089    | 4.859  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 28359    | 4.997  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 22371    | 4.783  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 12394    | 4.881  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 13490    | 5.219  | ug/l   | 96       |
| 89) n-Butylbenzene            | 12.335 | 91   | 22023    | 4.786  | ug/l   | 93       |
| 90) Hexachloroethane          | 12.542 | 117  | 3569     | 4.584  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 11834    | 4.891  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 2098     | 4.619  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 7149     | 4.527  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 3065     | 4.749  | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 23276    | 4.612  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 7240     | 4.823  | ug/l   | 99       |

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Sample : VSTDICC005  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/27/2024  
Supervised By :Semsettin Yesilyurt 02/27/2024

Quant Time: Feb 27 04:51:18 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022624W.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 27 04:43:02 2024  
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

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