

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062823\  
 Data File : VX036359.D  
 Acq On : 28 Jun 2023 11:13  
 Operator : JC/MD  
 Sample : VX0628WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0628WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/29/2023  
 Supervised By : Mahesh Dadoda 06/29/2023

Quant Time: Jun 29 01:26:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 15:03:28 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 232014     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 392050     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 353075     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 168644     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 161995     | 48.709  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 97.420% |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 126456     | 48.918  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 97.840% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 467007     | 48.368  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 96.740% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 167966     | 49.389  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 98.780% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 38412      | 17.487  | ug/l   | 96       |
| 3) Chloromethane             | 1.294          | 50   | 56837      | 14.916  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 62161      | 14.922  | ug/l   | 98       |
| 5) Bromomethane              | 1.617          | 94   | 47899      | 15.714  | ug/l   | 97       |
| 6) Chloroethane              | 1.691          | 64   | 47353      | 15.484  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.892          | 101  | 106906     | 16.880  | ug/l   | 98       |
| 8) Diethyl Ether             | 2.136          | 74   | 40685      | 16.641  | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 48197      | 18.132  | ug/l   | 95       |
| 10) Methyl Iodide            | 2.453          | 142  | 54787      | 17.011  | ug/l   | 93       |
| 11) Tert butyl alcohol       | 3.032          | 59   | 61529      | 101.637 | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 46728      | 17.722  | ug/l   | 94       |
| 13) Acrolein                 | 2.245          | 56   | 72909      | 87.693  | ug/l   | 100      |
| 14) Allyl chloride           | 2.666          | 41   | 80931      | 18.887  | ug/l   | 98       |
| 15) Acrylonitrile            | 3.075          | 53   | 139469     | 90.891  | ug/l   | 99       |
| 16) Acetone                  | 2.404          | 43   | 131035     | 92.179  | ug/l   | 93       |
| 17) Carbon Disulfide         | 2.514          | 76   | 103068     | 15.916  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.709          | 43   | 107275     | 18.351  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 165513     | 19.423  | ug/l   | 98       |
| 20) Methylene Chloride       | 2.788          | 84   | 53649      | 17.528  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 49009      | 17.418  | ug/l   | 92       |
| 22) Diisopropyl ether        | 3.763          | 45   | 167272     | 19.481  | ug/l # | 84       |
| 23) Vinyl Acetate            | 3.721          | 43   | 599599     | 96.225  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 96097      | 18.990  | ug/l   | 98       |
| 25) 2-Butanone               | 4.568          | 43   | 189387     | 92.726  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 76678      | 21.365  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 59274      | 18.784  | ug/l   | 94       |
| 28) Bromochloromethane       | 4.897          | 49   | 49905      | 19.016  | ug/l   | 88       |
| 29) Tetrahydrofuran          | 5.019          | 42   | 118529     | 91.152  | ug/l   | 94       |
| 30) Chloroform               | 5.092          | 83   | 99836      | 19.588  | ug/l   | 94       |
| 31) Cyclohexane              | 5.470          | 56   | 77401      | 18.161  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 83659      | 19.650  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 70648      | 18.334  | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.715          | 43   | 73268      | 18.656  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 69029      | 19.614  | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.379          | 83   | 81727      | 17.708  | ug/l   | 91       |
| 40) Benzene                  | 6.037          | 78   | 205685     | 19.108  | ug/l   | 100      |

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 Sample : VX0628WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0628WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/29/2023  
 Supervised By : Mahesh Dadoda 06/29/2023

Quant Time: Jun 29 01:26:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 15:03:28 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 41534    | 19.063  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 81322    | 19.862  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 122427   | 19.541  | ug/l   | 98       |
| 44) Trichloroethene           | 7.129  | 130  | 55943    | 18.685  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 56110    | 19.139  | ug/l   | 98       |
| 46) Dibromomethane            | 7.580  | 93   | 40179    | 19.470  | ug/l   | 93       |
| 47) Bromodichloromethane      | 7.824  | 83   | 72317    | 19.378  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.696  | 41   | 60831    | 19.473  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 7.738  | 88   | 29468    | 425.516 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 390018   | 96.623  | ug/l   | 99       |
| 52) Toluene                   | 8.720  | 92   | 128626   | 18.855  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 77206    | 20.480  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 85024    | 19.952  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 54426    | 19.197  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 82683    | 19.498  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 93755    | 19.296  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 230697   | 96.802  | ug/l   | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 289908   | 98.352  | ug/l   | 97       |
| 60) Dibromochloromethane      | 9.518  | 129  | 54055    | 19.624  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 57669    | 19.167  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 48815    | 19.581  | ug/l   | 98       |
| 65) Chlorobenzene             | 10.079 | 112  | 143848   | 19.381  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 52060    | 20.751  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 250881   | 19.013  | ug/l   | 97       |
| 68) m/p-Xylenes               | 10.299 | 106  | 193112   | 37.669  | ug/l   | 97       |
| 69) o-Xylene                  | 10.640 | 106  | 94430    | 19.074  | ug/l   | 99       |
| 70) Styrene                   | 10.652 | 104  | 153258   | 18.907  | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173  | 36321    | 20.185  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 250663   | 19.723  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.841 | 43   | 102775   | 20.444  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 83767    | 19.463  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 67430m   | 18.745  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 59711    | 19.107  | ug/l   | 92       |
| 78) n-propylbenzene           | 11.305 | 91   | 283518   | 19.102  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 169767   | 19.227  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 208803   | 19.400  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 22581    | 20.463  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 193464   | 18.820  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 201657   | 19.550  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 207708   | 19.506  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 251020   | 19.209  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 208188   | 18.984  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 112069   | 19.505  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 110351   | 18.862  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.329 | 91   | 180544   | 18.498  | ug/l   | 97       |
| 90) Hexachloroethane          | 12.536 | 117  | 31739    | 19.108  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 111180   | 19.652  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 17597    | 21.526  | ug/l   | 88       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 69358    | 19.904  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 27105    | 18.992  | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 242456   | 21.061  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 71095    | 20.915  | ug/l   | 97       |

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Sample : VX0628WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0628WBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 06/29/2023  
Supervised By :Mahesh Dadoda 06/29/2023

Quant Time: Jun 29 01:26:28 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 23 15:03:28 2023  
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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