

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100923\  
 Data File : VX038163.D  
 Acq On : 09 Oct 2023 11:55  
 Operator : JC/MD  
 Sample : VX1009WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1009WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/10/2023  
 Supervised By : Mahesh Dadoda 10/10/2023

Quant Time: Oct 10 00:53:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 130448     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 217186     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 211034     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 117283     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 101239     | 48.251  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 96.500% |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 76088      | 48.620  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 97.240% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 284993     | 47.657  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 95.320% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 111110     | 49.009  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 98.020% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 25958      | 20.615  | ug/l   | 96       |
| 3) Chloromethane             | 1.301          | 50   | 23776      | 18.526  | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 27251      | 19.152  | ug/l   | 99       |
| 5) Bromomethane              | 1.605          | 94   | 28559      | 14.680  | ug/l   | 99       |
| 6) Chloroethane              | 1.685          | 64   | 20407      | 19.709  | ug/l   | 90       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 53952      | 19.196  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.130          | 74   | 20824      | 19.866  | ug/l   | 81       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 23967      | 19.534  | ug/l   | 96       |
| 10) Methyl Iodide            | 2.453          | 142  | 32206      | 18.243  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 2.947          | 59   | 44070      | 87.961  | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 22798      | 19.102  | ug/l   | 89       |
| 13) Acrolein                 | 2.233          | 56   | 30790      | 103.226 | ug/l   | 99       |
| 14) Allyl chloride           | 2.666          | 41   | 40755      | 19.091  | ug/l   | 95       |
| 15) Acrylonitrile            | 3.063          | 53   | 99292      | 103.989 | ug/l   | 99       |
| 16) Acetone                  | 2.374          | 43   | 86531      | 98.817  | ug/l   | 92       |
| 17) Carbon Disulfide         | 2.514          | 76   | 61324      | 17.827  | ug/l   | 98       |
| 18) Methyl Acetate           | 2.703          | 43   | 79475      | 21.164  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 95858      | 20.167  | ug/l   | 98       |
| 20) Methylene Chloride       | 2.788          | 84   | 30510      | 18.523  | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 27281      | 18.461  | ug/l   | 91       |
| 22) Diisopropyl ether        | 3.758          | 45   | 88926      | 19.876  | ug/l   | 94       |
| 23) Vinyl Acetate            | 3.721          | 43   | 341362     | 104.040 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 50641      | 18.651  | ug/l   | 99       |
| 25) 2-Butanone               | 4.550          | 43   | 146822     | 103.917 | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 40895      | 19.291  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 33762      | 19.184  | ug/l   | 92       |
| 28) Bromochloromethane       | 4.898          | 49   | 25616      | 20.898  | ug/l   | 90       |
| 29) Tetrahydrofuran          | 4.995          | 42   | 93306      | 101.434 | ug/l   | 89       |
| 30) Chloroform               | 5.087          | 83   | 58171      | 19.592  | ug/l   | 98       |
| 31) Cyclohexane              | 5.471          | 56   | 41647      | 18.321  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 48155      | 18.935  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 40779      | 18.896  | ug/l   | 100      |
| 37) Ethyl Acetate            | 4.709          | 43   | 53583      | 20.906  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 5.672          | 117  | 42137      | 19.848  | ug/l   | 95       |
| 39) Methylcyclohexane        | 7.379          | 83   | 49330      | 19.515  | ug/l   | 91       |
| 40) Benzene                  | 6.038          | 78   | 120049     | 19.889  | ug/l   | 98       |

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 Sample : VX1009WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1009WBSD01

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 10/10/2023  
 Supervised By :Mahesh Dadoda 10/10/2023

Quant Time: Oct 10 00:53:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 26974    | 21.156  | ug/l # | 89       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 49975    | 20.723  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 81006    | 21.172  | ug/l   | 97       |
| 44) Trichloroethene           | 7.123  | 130  | 31366    | 19.868  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 31004    | 19.846  | ug/l   | 100      |
| 46) Dibromomethane            | 7.580  | 93   | 25414    | 20.975  | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.818  | 83   | 44172    | 20.493  | ug/l   | 95       |
| 48) Methyl methacrylate       | 7.690  | 41   | 37437    | 20.496  | ug/l # | 84       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 18840    | 418.578 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 287793   | 109.050 | ug/l   | 98       |
| 52) Toluene                   | 8.714  | 92   | 78608    | 19.993  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 47558    | 20.555  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 49675    | 20.435  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 34464    | 20.493  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 51569    | 19.999  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 56569    | 20.797  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 139097   | 109.898 | ug/l   | 98       |
| 59) 2-Hexanone                | 9.427  | 43   | 233832   | 110.213 | ug/l   | 97       |
| 60) Dibromochloromethane      | 9.519  | 129  | 34738    | 21.105  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 37159    | 20.432  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 25644    | 18.771  | ug/l   | 96       |
| 65) Chlorobenzene             | 10.080 | 112  | 85548    | 19.372  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 30571    | 20.472  | ug/l   | 97       |
| 67) Ethyl Benzene             | 10.195 | 91   | 151989   | 19.282  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 117522   | 38.559  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 57309    | 19.265  | ug/l   | 98       |
| 70) Styrene                   | 10.653 | 104  | 96588    | 19.938  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 26110    | 20.632  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.964 | 105  | 151308   | 19.237  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.842 | 43   | 69420    | 20.668  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 11.214 | 83   | 60429    | 20.938  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 57405m   | 21.530  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 37519    | 19.538  | ug/l   | 93       |
| 78) n-propylbenzene           | 11.305 | 91   | 186745   | 19.418  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 109075   | 19.124  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 131889   | 19.436  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 16434    | 20.580  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 131576   | 19.495  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 128056   | 19.313  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 133525   | 19.735  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 170947   | 19.903  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 140908   | 19.884  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 74460    | 19.305  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 76495    | 19.427  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 136295   | 19.312  | ug/l   | 96       |
| 90) Hexachloroethane          | 12.536 | 117  | 23052    | 19.620  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 73355    | 19.786  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 15289    | 21.910  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 49928    | 20.079  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 19837    | 19.821  | ug/l   | 97       |
| 95) Naphthalene               | 13.774 | 128  | 168574   | 19.467  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 46734    | 19.410  | ug/l   | 96       |

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Sample : VX1009WBSD01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1009WBSD01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/10/2023  
Supervised By :Mahesh Dadoda 10/10/2023

Quant Time: Oct 10 00:53:12 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
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

