

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061623\  
 Data File : VX036187.D  
 Acq On : 16 Jun 2023 17:32  
 Operator : JC/MD  
 Sample : VX0616WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0616WBS01

Quant Time: Jun 19 01:42:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 16 16:28:40 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/19/2023  
 Supervised By : Mahesh Dadoda 06/19/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 178414              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 304394              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 272964              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 134900              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 163571              | 50.169  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 100.340% |         |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 112409              | 54.458  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 108.920% |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 395933              | 52.438  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 104.880% |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 159762              | 52.418  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 104.840% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 48832               | 22.298  | ug/l   | 99       |
| 3) Chloromethane             | 1.294          | 50   | 48371               | 20.876  | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 49538               | 22.443  | ug/l   | 99       |
| 5) Bromomethane              | 1.611          | 94   | 27064               | 19.946  | ug/l   | 100      |
| 6) Chloroethane              | 1.691          | 64   | 29931               | 20.957  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 80142               | 22.435  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.130          | 74   | 27737               | 20.861  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 45504               | 22.337  | ug/l   | 99       |
| 10) Methyl Iodide            | 2.453          | 142  | 43818               | 20.861  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.983          | 59   | 48997               | 98.299  | ug/l # | 90       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 41540               | 21.564  | ug/l   | 99       |
| 13) Acrolein                 | 2.239          | 56   | 53862               | 97.305  | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 81810               | 20.989  | ug/l   | 98       |
| 15) Acrylonitrile            | 3.062          | 53   | 131856              | 103.409 | ug/l   | 99       |
| 16) Acetone                  | 2.386          | 43   | 140148              | 103.461 | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.514          | 76   | 103112              | 21.656  | ug/l   | 100      |
| 18) Methyl Acetate           | 2.703          | 43   | 104426              | 20.326  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 157639              | 20.904  | ug/l   | 97       |
| 20) Methylene Chloride       | 2.788          | 84   | 48364               | 19.706  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 44551               | 20.816  | ug/l   | 93       |
| 22) Diisopropyl ether        | 3.757          | 45   | 164170              | 21.166  | ug/l   | 93       |
| 23) Vinyl Acetate            | 3.721          | 43   | 591146              | 107.536 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 91841               | 21.431  | ug/l   | 99       |
| 25) 2-Butanone               | 4.556          | 43   | 197687              | 104.243 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 73636               | 22.096  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 52730               | 21.545  | ug/l   | 97       |
| 28) Bromochloromethane       | 4.897          | 49   | 47723               | 21.363  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 124150              | 103.078 | ug/l   | 99       |
| 30) Chloroform               | 5.092          | 83   | 96117               | 21.297  | ug/l   | 96       |
| 31) Cyclohexane              | 5.470          | 56   | 76058               | 21.745  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 83234               | 21.753  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 68225               | 22.438  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.714          | 43   | 72506               | 20.467  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 68177               | 23.065  | ug/l   | 95       |
| 39) Methylcyclohexane        | 7.379          | 83   | 78016               | 23.824  | ug/l   | 96       |
| 40) Benzene                  | 6.037          | 78   | 186655              | 21.830  | ug/l   | 100      |

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 Operator : JC/MD  
 Sample : VX0616WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0616WBS01

Quant Time: Jun 19 01:42:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 16 16:28:40 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/19/2023  
 Supervised By : Mahesh Dadoda 06/19/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 41996    | 21.502  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 84929    | 22.048  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 121180   | 22.352  | ug/l   | 98       |
| 44) Trichloroethene           | 7.123  | 130  | 46851    | 21.927  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 49185    | 21.637  | ug/l   | 97       |
| 46) Dibromomethane            | 7.580  | 93   | 35281    | 21.786  | ug/l   | 96       |
| 47) Bromodichloromethane      | 7.818  | 83   | 66831    | 21.496  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.696  | 41   | 60812    | 21.863  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 7.696  | 88   | 20490    | 439.982 | ug/l # | 100      |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 378965   | 110.704 | ug/l   | 97       |
| 52) Toluene                   | 8.720  | 92   | 116452   | 21.753  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 70756    | 22.095  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 75528    | 21.994  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 46678    | 21.121  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 73327    | 21.964  | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 84866    | 21.585  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 163671   | 88.948  | ug/l   | 98       |
| 59) 2-Hexanone                | 9.427  | 43   | 288014   | 113.170 | ug/l   | 97       |
| 60) Dibromochloromethane      | 9.518  | 129  | 45495    | 21.091  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 49854    | 21.635  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 38230    | 22.511  | ug/l   | 96       |
| 65) Chlorobenzene             | 10.079 | 112  | 123633   | 21.858  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 44357    | 22.725  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 231880   | 22.955  | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.299 | 106  | 173929   | 45.636  | ug/l   | 96       |
| 69) o-Xylene                  | 10.640 | 106  | 84047    | 22.352  | ug/l   | 94       |
| 70) Styrene                   | 10.652 | 104  | 139623   | 22.285  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 27949    | 20.798  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 222747   | 22.253  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.841 | 43   | 102971   | 22.764  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 75039    | 21.893  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 65422m   | 20.434  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 49148    | 20.957  | ug/l   | 90       |
| 78) n-propylbenzene           | 11.305 | 91   | 273490   | 23.225  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 166786   | 22.519  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 197695   | 23.194  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 18600    | 20.335  | ug/l # | 83       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 197813   | 22.922  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 184450   | 22.763  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 198003   | 23.290  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 240453   | 23.832  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 199500   | 23.502  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 99936    | 22.345  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 99168    | 21.647  | ug/l   | 97       |
| 89) n-Butylbenzene            | 12.329 | 91   | 181531   | 23.962  | ug/l   | 98       |
| 90) Hexachloroethane          | 12.536 | 117  | 30304    | 22.759  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 97289    | 22.164  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 17253    | 22.822  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 58305    | 23.432  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 22926    | 23.307  | ug/l   | 96       |
| 95) Naphthalene               | 13.774 | 128  | 195876   | 22.822  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 56002    | 22.444  | ug/l   | 97       |

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Sample : VX0616WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0616WBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 06/19/2023  
Supervised By :Mahesh Dadoda 06/19/2023

Quant Time: Jun 19 01:42:46 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061623W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 16 16:28:40 2023  
Response via : Initial Calibration

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

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

