

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112123\  
 Data File : VX038995.D  
 Acq On : 21 Nov 2023 19:16  
 Operator : JC/MD  
 Sample : 05431-03MS 100X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 15BR-20231113MS

Quant Time: Nov 22 03:25:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 16 22:59:22 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/22/2023  
 Supervised By : Mahesh Dadoda 11/22/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 115390              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 215900              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 203892              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 106570              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 93248               | 50.151  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 100.300% |         |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 72326               | 46.384  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 92.760%  |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 268582              | 45.020  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 90.040%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 111289              | 46.600  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 93.200%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 63209               | 46.947  | ug/l   | 99       |
| 3) Chloromethane             | 1.294          | 50   | 70115               | 39.899  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 75765               | 44.758  | ug/l   | 99       |
| 5) Bromomethane              | 1.599          | 94   | 44255               | 63.231  | ug/l   | 99       |
| 6) Chloroethane              | 1.685          | 64   | 45845               | 47.457  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 105472              | 49.101  | ug/l   | 100      |
| 8) Diethyl Ether             | 2.130          | 74   | 43567               | 46.567  | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 62269               | 43.712  | ug/l   | 95       |
| 10) Methyl Iodide            | 2.453          | 142  | 67084               | 38.691  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 2.959          | 59   | 130574              | 252.494 | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 59864               | 41.624  | ug/l   | 97       |
| 13) Acrolein                 | 2.233          | 56   | 69452               | 253.846 | ug/l   | 99       |
| 14) Allyl chloride           | 2.666          | 41   | 129170              | 44.859  | ug/l   | 96       |
| 15) Acrylonitrile            | 3.062          | 53   | 255906              | 234.194 | ug/l   | 99       |
| 16) Acetone                  | 2.373          | 43   | 228427              | 230.782 | ug/l   | 95       |
| 17) Carbon Disulfide         | 2.508          | 76   | 162763              | 36.535  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 238774              | 50.788  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 242234              | 47.887  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 74831               | 41.940  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 68217               | 42.988  | ug/l   | 95       |
| 22) Diisopropyl ether        | 3.757          | 45   | 251267              | 47.567  | ug/l   | 91       |
| 23) Vinyl Acetate            | 3.721          | 43   | 889341              | 233.764 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 137046              | 46.393  | ug/l   | 99       |
| 25) 2-Butanone               | 4.550          | 43   | 378944              | 236.089 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 115216              | 44.965  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 124397              | 67.251  | ug/l   | 93       |
| 28) Bromochloromethane       | 4.897          | 49   | 70053               | 49.393  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 4.995          | 42   | 247601              | 242.951 | ug/l   | 98       |
| 30) Chloroform               | 5.092          | 83   | 138090              | 47.873  | ug/l   | 98       |
| 31) Cyclohexane              | 5.470          | 56   | 114277              | 43.048  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 121137              | 48.485  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 100156              | 44.816  | ug/l   | 100      |
| 37) Ethyl Acetate            | 4.708          | 43   | 136780              | 46.977  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 101045              | 48.921  | ug/l   | 92       |
| 39) Methylcyclohexane        | 7.379          | 83   | 119628              | 41.038  | ug/l   | 99       |
| 40) Benzene                  | 6.037          | 78   | 294992              | 44.629  | ug/l   | 100      |

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 Sample : 05431-03MS 100X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 15BR-20231113MS

Quant Time: Nov 22 03:25:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 16 22:59:22 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 11/22/2023  
 Supervised By :Mahesh Dadoda 11/22/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 71895    | 47.609  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 111725   | 51.017  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 218570   | 46.972  | ug/l   | 100      |
| 44) Trichloroethene           | 7.123  | 130  | 128418   | 79.817  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 81924    | 46.056  | ug/l   | 97       |
| 46) Dibromomethane            | 7.580  | 93   | 55684    | 46.942  | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.818  | 83   | 110200   | 46.807  | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.690  | 41   | 102371   | 45.343  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 7.653  | 88   | 41931    | 960.008 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 728234   | 244.896 | ug/l   | 100      |
| 52) Toluene                   | 8.720  | 92   | 185829   | 45.304  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 125601   | 44.892  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 130695   | 45.223  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 79389    | 46.386  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 134364   | 46.400  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 133629   | 47.210  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 306322   | 227.077 | ug/l   | 95       |
| 59) 2-Hexanone                | 9.427  | 43   | 582742   | 244.494 | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.518  | 129  | 82893    | 47.633  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 84120    | 46.839  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 57487    | 45.360  | ug/l   | 98       |
| 65) Chlorobenzene             | 10.079 | 112  | 200704   | 45.697  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 73304    | 46.398  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 368380   | 45.652  | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.299 | 106  | 278080   | 91.101  | ug/l   | 98       |
| 69) o-Xylene                  | 10.640 | 106  | 137766   | 45.612  | ug/l   | 100      |
| 70) Styrene                   | 10.652 | 104  | 231511   | 45.386  | ug/l   | 99       |
| 71) Bromoform                 | 10.799 | 173  | 61624    | 46.789  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.963 | 105  | 359871   | 43.341  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.841 | 43   | 189444   | 43.161  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 140131   | 43.233  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 119001m  | 44.756  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 82515    | 44.227  | ug/l   | 99       |
| 78) n-propylbenzene           | 11.305 | 91   | 447991   | 43.833  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 260321   | 42.918  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 308478   | 44.185  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 46520    | 38.808  | ug/l   | 87       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 305854   | 43.732  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 300550   | 43.711  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 311994   | 44.151  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 396365   | 44.070  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 315734   | 43.731  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 159965   | 43.784  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 163484   | 43.720  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 314175   | 43.130  | ug/l   | 96       |
| 90) Hexachloroethane          | 12.536 | 117  | 60859    | 42.211  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 155240   | 44.799  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 35720    | 44.980  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 102153   | 43.991  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 35764    | 43.491  | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 378236   | 43.734  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 99024    | 44.985  | ug/l   | 99       |

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Manual Integrations  
APPROVED

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Quant Time: Nov 22 03:25:06 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 16 22:59:22 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

