

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081623\  
 Data File : VX037029.D  
 Acq On : 16 Aug 2023 20:12  
 Operator : JC/MD  
 Sample : 04024-12MS  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE114D1-20230815MS

Quant Time: Aug 17 04:19:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 08/17/2023  
 Supervised By : Mahesh Dadoda 08/17/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 118381     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 205660     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 188320     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 98576      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 85674      | 48.911   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 97.820%  |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 71892      | 50.858   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 101.720% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 230630     | 46.007   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 92.020%  |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 99923      | 52.833   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 105.660% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 80949      | 51.762   | ug/l   | 99       |
| 3) Chloromethane             | 1.295          | 50   | 65972      | 46.381   | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 73793      | 50.956   | ug/l   | 100      |
| 5) Bromomethane              | 1.599          | 94   | 41736      | 48.273   | ug/l   | 99       |
| 6) Chloroethane              | 1.679          | 64   | 39050      | 55.463   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 132252     | 59.137   | ug/l   | 100      |
| 8) Diethyl Ether             | 2.136          | 74   | 49413      | 57.110   | ug/l   | 77       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 108544     | 80.786   | ug/l   | 99       |
| 10) Methyl Iodide            | 2.453          | 142  | 87835      | 62.940   | ug/l   | 96       |
| 11) Tert butyl alcohol       | 2.965          | 59   | 135451     | 326.635  | ug/l # | 91       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 75497      | 56.954   | ug/l   | 84       |
| 13) Acrolein                 | 2.239          | 56   | 54239      | 229.185  | ug/l   | 98       |
| 14) Allyl chloride           | 2.660          | 41   | 111033     | 42.537   | ug/l # | 95       |
| 15) Acrylonitrile            | 3.062          | 53   | 224118     | 268.742  | ug/l   | 98       |
| 16) Acetone                  | 2.380          | 43   | 206695     | 284.368  | ug/l   | 93       |
| 17) Carbon Disulfide         | 2.508          | 76   | 151999     | 41.547   | ug/l   | 98       |
| 18) Methyl Acetate           | 2.703          | 43   | 145983     | 47.742   | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 280385     | 56.287   | ug/l   | 97       |
| 20) Methylene Chloride       | 2.788          | 84   | 81287      | 50.286   | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 76936      | 51.931   | ug/l   | 88       |
| 22) Diisopropyl ether        | 3.764          | 45   | 234427     | 47.301   | ug/l # | 83       |
| 23) Vinyl Acetate            | 3.721          | 43   | 808274     | 212.608  | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 148724     | 53.523   | ug/l   | 98       |
| 25) 2-Butanone               | 4.556          | 43   | 320328     | 271.630  | ug/l # | 89       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 93646      | 35.766   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 102364     | 58.173   | ug/l   | 87       |
| 28) Bromochloromethane       | 4.904          | 49   | 59210      | 44.059   | ug/l # | 81       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 200412     | 263.594  | ug/l # | 84       |
| 30) Chloroform               | 5.093          | 83   | 169012     | 59.452   | ug/l   | 96       |
| 31) Cyclohexane              | 5.471          | 56   | 107560     | 44.350   | ug/l # | 84       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 149837     | 57.522   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 109323     | 51.887   | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.715          | 43   | 108805     | 45.625   | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 132692     | 59.238   | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.379          | 83   | 112110     | 42.792   | ug/l   | 92       |
| 40) Benzene                  | 6.038          | 78   | 324509     | 52.937   | ug/l   | 98       |

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 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By : John Carlone 08/17/2023  
 Supervised By : Mahesh Dadoda 08/17/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 65997    | 51.744   | ug/l # | 90       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 131200   | 58.539   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 184758   | 45.008   | ug/l # | 92       |
| 44) Trichloroethene           | 7.123  | 130  | 765882   | 477.980  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 82692    | 50.525   | ug/l   | 97       |
| 46) Dibromomethane            | 7.580  | 93   | 64798    | 56.570   | ug/l   | 95       |
| 47) Bromodichloromethane      | 7.824  | 83   | 129337   | 55.009   | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.690  | 41   | 94559    | 49.531   | ug/l # | 87       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 56456    | 1463.865 | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 611260   | 269.076  | ug/l   | 93       |
| 52) Toluene                   | 8.720  | 92   | 214158   | 55.755   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 128952   | 48.525   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 136687   | 48.744   | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 93813    | 58.103   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 143260   | 54.489   | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 151046   | 56.167   | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 472378   | 280.181  | ug/l   | 90       |
| 60) Dibromochloromethane      | 9.519  | 129  | 100947   | 56.883   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 98480    | 58.851   | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 76243    | 54.279   | ug/l   | 97       |
| 65) Chlorobenzene             | 10.079 | 112  | 233213   | 56.181   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 91130    | 56.798   | ug/l   | 100      |
| 67) Ethyl Benzene             | 10.195 | 91   | 415885   | 54.842   | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 318636   | 112.616  | ug/l   | 98       |
| 69) o-Xylene                  | 10.640 | 106  | 157771   | 55.863   | ug/l   | 100      |
| 70) Styrene                   | 10.653 | 104  | 264809   | 56.830   | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 73083    | 56.270   | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.964 | 105  | 409734   | 50.225   | ug/l   | 98       |
| 74) N-amyl acetate            | 10.842 | 43   | 151060   | 39.708   | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 142236   | 51.621   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 120240m  | 51.859   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 99155    | 53.370   | ug/l   | 94       |
| 78) n-propylbenzene           | 11.305 | 91   | 457520   | 48.493   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 289290   | 50.600   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 342593   | 50.198   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 40355    | 39.449   | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 335915   | 51.567   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 336404   | 50.175   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 348675   | 51.085   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 393234   | 47.030   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 334710   | 48.649   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 185261   | 53.839   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 187784   | 54.990   | ug/l   | 100      |
| 89) n-Butylbenzene            | 12.329 | 91   | 274819   | 44.621   | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 60446    | 43.337   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 185795   | 55.953   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 36058    | 56.315   | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 107763   | 52.676   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 41002    | 48.445   | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 420085   | 58.926   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 109075   | 54.096   | ug/l   | 99       |

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| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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