

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX113021\  
 Data File : VX025398.D  
 Acq On : 30 Nov 2021 17:37  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/01/2021  
 Supervised By : Mahesh Dadoda 12/01/2021

Quant Time: Dec 01 02:22:45 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 15:36:16 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 87621               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 141112              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 132513              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 66613               | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 51132               | 55.363  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 110.720% |         |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 45571               | 52.634  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 105.260% |         |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 164321              | 50.477  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 100.960% |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.085         | 95   | 61934               | 50.290  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 100.580% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 38948               | 51.279  | ug/l   | 99       |
| 3) Chloromethane             | 1.294          | 50   | 45301               | 48.170  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 47930               | 46.420  | ug/l   | 97       |
| 5) Bromomethane              | 1.599          | 94   | 23185               | 52.228  | ug/l   | 98       |
| 6) Chloroethane              | 1.679          | 64   | 33444               | 46.943  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 71191               | 46.453  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.136          | 74   | 32649               | 51.621  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 39955               | 48.999  | ug/l   | 98       |
| 10) Methyl Iodide            | 2.453          | 142  | 59018               | 57.885  | ug/l   | 93       |
| 11) Tert butyl alcohol       | 2.977          | 59   | 53343               | 232.876 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 40321               | 49.650  | ug/l   | 89       |
| 13) Acrolein                 | 2.239          | 56   | 12111               | 286.235 | ug/l   | 97       |
| 14) Allyl chloride           | 2.666          | 41   | 73053               | 49.704  | ug/l   | 97       |
| 15) Acrylonitrile            | 3.069          | 53   | 132787              | 267.921 | ug/l   | 99       |
| 16) Acetone                  | 2.380          | 43   | 129234              | 251.820 | ug/l   | 95       |
| 17) Carbon Disulfide         | 2.514          | 76   | 94782               | 41.489  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 86170               | 52.553  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 156277              | 55.229  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 50084               | 51.916  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 46030               | 51.739  | ug/l   | 85       |
| 22) Diisopropyl ether        | 3.764          | 45   | 153587              | 54.872  | ug/l   | 98       |
| 23) Vinyl Acetate            | 3.721          | 43   | 614552              | 273.337 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 83189               | 54.393  | ug/l   | 98       |
| 25) 2-Butanone               | 4.556          | 43   | 192755              | 259.786 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 70952               | 51.171  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 4.495          | 96   | 56768               | 54.640  | ug/l   | 91       |
| 28) Bromochloromethane       | 4.898          | 49   | 39662               | 55.615  | ug/l   | 92       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 120124              | 261.472 | ug/l   | 98       |
| 30) Chloroform               | 5.099          | 83   | 89792               | 56.415  | ug/l   | 93       |
| 31) Cyclohexane              | 5.471          | 56   | 64873               | 45.454  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 77234               | 53.002  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 60461               | 49.109  | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.715          | 43   | 72104               | 51.475  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 66904               | 49.339  | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.379          | 83   | 67393               | 42.676  | ug/l   | 95       |
| 40) Benzene                  | 6.044          | 78   | 192076              | 51.502  | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Dec 01 02:22:45 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 15:36:16 2021  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By : John Carlone 12/01/2021  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 39921    | 51.348  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 67984    | 56.022  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 118852   | 50.985  | ug/l   | 98       |
| 44) Trichloroethene           | 7.129  | 130  | 54798    | 50.579  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 48712    | 53.179  | ug/l   | 100      |
| 46) Dibromomethane            | 7.580  | 93   | 35905    | 53.996  | ug/l   | 93       |
| 47) Bromodichloromethane      | 7.824  | 83   | 69642    | 53.294  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.696  | 41   | 55276    | 50.524  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 21526    | 931.714 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 376267   | 257.409 | ug/l   | 99       |
| 52) Toluene                   | 8.720  | 92   | 126378   | 51.903  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 76575    | 52.695  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 81312    | 51.620  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 53774    | 55.566  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 81731    | 52.043  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 87126    | 54.318  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 198234   | 271.311 | ug/l   | 95       |
| 59) 2-Hexanone                | 9.433  | 43   | 290853   | 252.389 | ug/l   | 97       |
| 60) Dibromochloromethane      | 9.525  | 129  | 58667    | 52.671  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 55404    | 52.859  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 52622    | 48.158  | ug/l   | 93       |
| 65) Chlorobenzene             | 10.079 | 112  | 140174   | 51.909  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 54140    | 52.281  | ug/l   | 100      |
| 67) Ethyl Benzene             | 10.195 | 91   | 238509   | 51.111  | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.305 | 106  | 190182   | 99.777  | ug/l   | 93       |
| 69) o-Xylene                  | 10.646 | 106  | 94674    | 50.748  | ug/l   | 91       |
| 70) Styrene                   | 10.659 | 104  | 159211   | 51.659  | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173  | 43747    | 48.658  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.963 | 105  | 238591   | 50.257  | ug/l   | 98       |
| 74) N-amyl acetate            | 10.848 | 43   | 102177   | 49.759  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 79171    | 51.557  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 71762m   | 52.608  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 63583    | 52.078  | ug/l   | 93       |
| 78) n-propylbenzene           | 11.305 | 91   | 269004   | 50.480  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 165402   | 50.983  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 201373   | 50.462  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 26268    | 48.511  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 188757   | 50.969  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 199717   | 49.246  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 203120   | 51.500  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 242025   | 49.089  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 209271   | 49.401  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 116051   | 51.062  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 115696   | 50.239  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.335 | 91   | 167911   | 47.027  | ug/l   | 97       |
| 90) Hexachloroethane          | 12.542 | 117  | 35890    | 45.975  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 115126   | 51.978  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 16854    | 52.544  | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 71148    | 54.576  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 27538    | 43.993  | ug/l   | 98       |
| 95) Naphthalene               | 13.780 | 128  | 240423   | 53.517  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 70294    | 55.119  | ug/l   | 99       |

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Manual Integrations  
APPROVED

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Quant Title : SW846 8260  
QLast Update : Wed Nov 17 15:36:16 2021  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

