

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111721\  
 Data File : VX025187.D  
 Acq On : 17 Nov 2021 13:36  
 Operator : JC/MD  
 Sample : VSTDIC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC020

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/18/2021  
 Supervised By : Mahesh Dadoda 11/18/2021

Quant Time: Nov 17 14:30:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 13:11:26 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 130822     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 200634     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 181443     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 90597      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 26173      | 17.978   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 35.960%# |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 23785      | 18.403   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 36.800%# |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 89216      | 18.951   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 37.900%# |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 33165      | 19.048   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 38.100%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 24810      | 20.657   | ug/l   | 99       |
| 3) Chloromethane             | 1.288          | 50   | 27829      | 19.090   | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 30698      | 19.422   | ug/l   | 99       |
| 5) Bromomethane              | 1.599          | 94   | 23206      | 29.733   | ug/l   | 98       |
| 6) Chloroethane              | 1.685          | 64   | 19843      | 17.964   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 44733      | 19.055   | ug/l   | 99       |
| 8) Diethyl Ether             | 2.130          | 74   | 17358      | 17.688   | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 24149      | 19.231   | ug/l   | 96       |
| 10) Methyl Iodide            | 2.453          | 142  | 24626      | 16.090   | ug/l   | 91       |
| 11) Tert butyl alcohol       | 2.959          | 59   | 32085      | 65.681   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 23553      | 18.724   | ug/l   | 88       |
| 13) Acrolein                 | 2.233          | 56   | 5732       | 77.747   | ug/l   | 91       |
| 14) Allyl chloride           | 2.660          | 41   | 39479      | 17.717   | ug/l   | 94       |
| 15) Acrylonitrile            | 3.062          | 53   | 67876      | 89.195   | ug/l   | 98       |
| 16) Acetone                  | 2.380          | 43   | 73073      | 90.240   | ug/l   | 93       |
| 17) Carbon Disulfide         | 2.508          | 76   | 64225      | 18.693   | ug/l   | 98       |
| 18) Methyl Acetate           | 2.703          | 43   | 43276      | 17.537   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 77539      | 18.023   | ug/l   | 98       |
| 20) Methylene Chloride       | 2.788          | 84   | 25950      | 17.722   | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 25030      | 18.527   | ug/l   | 86       |
| 22) Diisopropyl ether        | 3.757          | 45   | 76138      | 17.732   | ug/l   | 94       |
| 23) Vinyl Acetate            | 3.721          | 43   | 310638     | 90.481   | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 42247      | 18.141   | ug/l   | 95       |
| 25) 2-Butanone               | 4.556          | 43   | 102346     | 89.687   | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 39581      | 18.670   | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 29086      | 18.237   | ug/l   | 90       |
| 28) Bromochloromethane       | 4.897          | 49   | 20066      | 19.725   | ug/l   | 92       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 60550      | 86.617   | ug/l   | 97       |
| 30) Chloroform               | 5.093          | 83   | 44308      | 18.107   | ug/l   | 96       |
| 31) Cyclohexane              | 5.471          | 56   | 40778      | 18.967   | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 40340      | 18.372   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 33239      | 19.367   | ug/l   | 96       |
| 37) Ethyl Acetate            | 4.715          | 43   | 36132      | 18.286   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 37746      | 19.440   | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.379          | 83   | 43473      | 19.418   | ug/l   | 93       |
| 40) Benzene                  | 6.037          | 78   | 100243     | 18.852   | ug/l   | 100      |

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 Sample : VSTDIC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC020

Quant Time: Nov 17 14:30:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 13:11:26 2021  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/18/2021  
 Supervised By : Mahesh Dadoda 11/18/2021

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 19681    | 17.325  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 33064    | 18.667  | ug/l   | 92       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 60556    | 17.708  | ug/l   | 97       |
| 44) Trichloroethene           | 7.123  | 130  | 29914    | 19.444  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 24942    | 18.819  | ug/l   | 97       |
| 46) Dibromomethane            | 7.580  | 93   | 17846    | 18.438  | ug/l   | 91       |
| 47) Bromodichloromethane      | 7.824  | 83   | 34774    | 18.665  | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.690  | 41   | 27729    | 17.220  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 12962    | 391.986 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 188732   | 89.380  | ug/l   | 98       |
| 52) Toluene                   | 8.720  | 92   | 65256    | 18.685  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 38783    | 18.364  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 42390    | 18.881  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 26090    | 18.482  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 41358    | 18.195  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 42641    | 18.346  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 99458    | 97.336  | ug/l   | 95       |
| 59) 2-Hexanone                | 9.433  | 43   | 149305   | 90.409  | ug/l   | 96       |
| 60) Dibromochloromethane      | 9.519  | 129  | 29522    | 18.094  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 27439    | 18.108  | ug/l   | 96       |
| 64) Tetrachloroethene         | 9.275  | 164  | 29135    | 19.395  | ug/l   | 93       |
| 65) Chlorobenzene             | 10.079 | 112  | 72083    | 19.315  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 27550    | 19.256  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 123578   | 19.078  | ug/l   | 95       |
| 68) m/p-Xylenes               | 10.305 | 106  | 100929   | 38.592  | ug/l   | 91       |
| 69) o-Xylene                  | 10.640 | 106  | 49237    | 18.959  | ug/l   | 89       |
| 70) Styrene                   | 10.659 | 104  | 81033    | 19.194  | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173  | 23135    | 18.350  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 126584   | 19.464  | ug/l   | 97       |
| 74) N-amyl acetate            | 10.842 | 43   | 49910    | 17.687  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 38312    | 18.204  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 36145m   | 14.831  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 32545    | 19.237  | ug/l   | 91       |
| 78) n-propylbenzene           | 11.305 | 91   | 143601   | 19.450  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 83964    | 19.049  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 106039   | 19.425  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 13904    | 18.850  | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 96466    | 18.946  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 107469   | 19.328  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 105459   | 19.415  | ug/l   | 94       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 133107   | 19.845  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 113079   | 19.807  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 60342    | 19.437  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 60948    | 19.576  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.335 | 91   | 93709    | 19.575  | ug/l   | 96       |
| 90) Hexachloroethane          | 12.542 | 117  | 20214    | 19.523  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 58197    | 18.940  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 8337     | 19.321  | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 37417    | 21.504  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 16964    | 19.832  | ug/l   | 97       |
| 95) Naphthalene               | 13.780 | 128  | 113663   | 20.912  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 36019    | 21.054  | ug/l   | 99       |

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Sample : VSTDICC020  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/18/2021  
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Quant Time: Nov 17 14:30:18 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 17 13:11:26 2021  
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

