

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121621\  
 Data File : VX025833.D  
 Acq On : 15 Dec 2021 22:31  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/16/2021  
 Supervised By : Mahesh Dadoda 12/21/2021

Quant Time: Dec 16 07:32:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 113058     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 185865     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 179316     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 91984      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 71061      | 43.684  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 87.360% |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 60366      | 46.570  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 93.140% |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 224407     | 47.515  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 95.020% |        |          |
| 62) 4-Bromofluorobenzene     | 11.085         | 95   | 85195      | 47.487  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 94.980% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 57230      | 56.601  | ug/l   | 98       |
| 3) Chloromethane             | 1.295          | 50   | 62247      | 47.278  | ug/l   | 94       |
| 4) Vinyl Chloride            | 1.374          | 62   | 68565      | 48.959  | ug/l   | 100      |
| 5) Bromomethane              | 1.599          | 94   | 42246      | 42.247  | ug/l   | 97       |
| 6) Chloroethane              | 1.679          | 64   | 46264      | 45.610  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 111977     | 48.406  | ug/l   | 96       |
| 8) Diethyl Ether             | 2.136          | 74   | 41251      | 45.206  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 58535      | 48.626  | ug/l   | 99       |
| 10) Methyl Iodide            | 2.453          | 142  | 74458      | 48.545  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.971          | 59   | 65969      | 202.167 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 55261      | 46.171  | ug/l   | 98       |
| 13) Acrolein                 | 2.239          | 56   | 59373      | 266.197 | ug/l   | 99       |
| 14) Allyl chloride           | 2.666          | 41   | 95795      | 43.854  | ug/l   | 99       |
| 15) Acrylonitrile            | 3.069          | 53   | 177528     | 233.049 | ug/l   | 99       |
| 16) Acetone                  | 2.386          | 43   | 156144     | 219.265 | ug/l   | 98       |
| 17) Carbon Disulfide         | 2.514          | 76   | 137371     | 40.069  | ug/l   | 100      |
| 18) Methyl Acetate           | 2.709          | 43   | 116140     | 46.844  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 198188     | 46.882  | ug/l   | 100      |
| 20) Methylene Chloride       | 2.788          | 84   | 65962      | 47.276  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 64027      | 47.934  | ug/l   | 97       |
| 22) Diisopropyl ether        | 3.770          | 45   | 202603     | 47.815  | ug/l   | 89       |
| 23) Vinyl Acetate            | 3.727          | 43   | 786954     | 240.006 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 113308     | 46.834  | ug/l   | 98       |
| 25) 2-Butanone               | 4.562          | 43   | 253040     | 231.280 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 4.483          | 77   | 70587      | 38.466  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 73359      | 46.318  | ug/l   | 99       |
| 28) Bromochloromethane       | 4.904          | 49   | 52466      | 48.122  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 5.013          | 42   | 165089     | 237.328 | ug/l   | 100      |
| 30) Chloroform               | 5.099          | 83   | 122017     | 45.984  | ug/l   | 96       |
| 31) Cyclohexane              | 5.477          | 56   | 102760     | 51.946  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 5.391          | 97   | 106631     | 46.173  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 88186      | 50.167  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.721          | 43   | 96036      | 49.173  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 93077      | 45.508  | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.385          | 83   | 103960     | 52.855  | ug/l   | 98       |
| 40) Benzene                  | 6.044          | 78   | 261700     | 49.908  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121621\  
 Data File : VX025833.D  
 Acq On : 15 Dec 2021 22:31  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Dec 16 07:32:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/16/2021  
 Supervised By : Mahesh Dadoda 12/21/2021

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.928  | 41   | 53887    | 49.857   | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 96521    | 48.432   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 6.348  | 43   | 151188   | 48.049   | ug/l   | 99       |
| 44) Trichloroethene           | 7.129  | 130  | 72867    | 49.914   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 65350    | 49.445   | ug/l   | 96       |
| 46) Dibromomethane            | 7.586  | 93   | 48314    | 46.956   | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.824  | 83   | 91312    | 45.027   | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.696  | 41   | 73427    | 49.555   | ug/l   | 100      |
| 49) 1,4-Dioxane               | 7.665  | 88   | 33025    | 1020.931 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.580  | 43   | 518599   | 251.775  | ug/l   | 100      |
| 52) Toluene                   | 8.720  | 92   | 173351   | 51.884   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 87278    | 45.151   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.373  | 75   | 99959    | 47.261   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 69856    | 48.754   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 9.122  | 69   | 105079   | 51.066   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 115807   | 49.275   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 262094   | 260.096  | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 397481   | 254.690  | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.525  | 129  | 72211    | 44.405   | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 75110    | 48.347   | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 65244    | 45.614   | ug/l   | 98       |
| 65) Chlorobenzene             | 10.080 | 112  | 186580   | 49.917   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 67394    | 46.173   | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 329612   | 52.148   | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.305 | 106  | 260243   | 105.810  | ug/l   | 100      |
| 69) o-Xylene                  | 10.646 | 106  | 127697   | 52.777   | ug/l   | 100      |
| 70) Styrene                   | 10.659 | 104  | 214295   | 53.225   | ug/l   | 99       |
| 71) Bromoform                 | 10.805 | 173  | 51768    | 43.054   | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.964 | 105  | 331742   | 49.693   | ug/l   | 100      |
| 74) N-amyl acetate            | 10.848 | 43   | 136579   | 50.865   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 111124   | 47.760   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 94050m   | 44.626   | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 82815    | 48.362   | ug/l   | 98       |
| 78) n-propylbenzene           | 11.305 | 91   | 383480   | 50.784   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 230460   | 47.994   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 280925   | 50.738   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.024 | 75   | 25074    | 36.885   | ug/l   | 89       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 263328   | 48.972   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 278746   | 51.362   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 281833   | 50.955   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 345657   | 52.989   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 291177   | 53.151   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 155536   | 48.749   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 158269   | 48.586   | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 239882   | 52.494   | ug/l   | 99       |
| 90) Hexachloroethane          | 12.542 | 117  | 43627    | 40.521   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 152993   | 50.212   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 21829    | 41.750   | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 87561    | 47.846   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 35697    | 55.077   | ug/l   | 98       |
| 95) Naphthalene               | 13.780 | 128  | 302412   | 48.220   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 89473    | 49.274   | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121621\  
Data File : VX025833.D  
Acq On : 15 Dec 2021 22:31  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/16/2021  
Supervised By :Mahesh Dadoda 12/21/2021

Quant Time: Dec 16 07:32:47 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 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

