

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061824\  
 Data File : VX041911.D  
 Acq On : 18 Jun 2024 09:06  
 Operator : JC/MD  
 Sample : VSTDICC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/19/2024  
 Supervised By : Mahesh Dadoda 06/19/2024

Quant Time: Jun 19 07:55:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061824W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 19 07:55:43 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.550  | 168  | 204070   | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene    | 6.757  | 114  | 296045   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 262714   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 129400   | 50.000 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 0.000  | 65    | 0d       | 0.000    | ug/l |         |
| Spiked Amount             | 50.000 | Range | 78 - 117 | Recovery | =    | 0.000%# |
| 35) Dibromofluoromethane  | 0.000  | 113   | 0d       | 0.000    | ug/l |         |
| Spiked Amount             | 50.000 | Range | 75 - 124 | Recovery | =    | 0.000%# |
| 50) Toluene-d8            | 0.000  | 98    | 0d       | 0.000    | ug/l |         |
| Spiked Amount             | 50.000 | Range | 92 - 112 | Recovery | =    | 0.000%# |
| 62) 4-Bromofluorobenzene  | 0.000  | 95    | 0d       | 0.000    | ug/l |         |
| Spiked Amount             | 50.000 | Range | 83 - 123 | Recovery | =    | 0.000%# |

## Target Compounds

|                              |       |     |       |       |        | Qvalue |
|------------------------------|-------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.166 | 85  | 1503  | 0.967 | ug/l   | 93     |
| 3) Chloromethane             | 1.301 | 50  | 1995  | 1.023 | ug/l   | 95     |
| 4) Vinyl Chloride            | 1.374 | 62  | 1943  | 0.994 | ug/l # | 83     |
| 6) Chloroethane              | 1.666 | 64  | 1393  | 1.415 | ug/l   | 94     |
| 7) Trichlorofluoromethane    | 1.868 | 101 | 2687  | 1.049 | ug/l   | 93     |
| 8) Diethyl Ether             | 2.136 | 74  | 1153  | 0.959 | ug/l   | 88     |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 1772  | 1.004 | ug/l # | 85     |
| 12) 1,1-Dichloroethene       | 2.300 | 96  | 1609  | 0.914 | ug/l # | 85     |
| 14) Allyl chloride           | 2.654 | 41  | 2610  | 0.935 | ug/l   | 92     |
| 15) Acrylonitrile            | 3.075 | 53  | 5189  | 4.448 | ug/l   | 97     |
| 16) Acetone                  | 2.392 | 43  | 6457  | 6.249 | ug/l # | 89     |
| 17) Carbon Disulfide         | 2.502 | 76  | 3388  | 0.944 | ug/l # | 90     |
| 18) Methyl Acetate           | 2.709 | 43  | 2495  | 0.885 | ug/l   | 98     |
| 19) Methyl tert-butyl Ether  | 3.123 | 73  | 5051  | 0.869 | ug/l   | 98     |
| 20) Methylene Chloride       | 2.782 | 84  | 2835  | 1.253 | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene | 3.087 | 96  | 1714  | 0.959 | ug/l   | 86     |
| 22) Diisopropyl ether        | 3.757 | 45  | 5245  | 0.889 | ug/l # | 33     |
| 23) Vinyl Acetate            | 3.733 | 43  | 20231 | 4.015 | ug/l   | 95     |
| 24) 1,1-Dichloroethane       | 3.611 | 63  | 2944  | 0.891 | ug/l   | 95     |
| 25) 2-Butanone               | 4.587 | 43  | 7301  | 4.542 | ug/l   | 99     |
| 26) 2,2-Dichloropropane      | 4.471 | 77  | 2229  | 0.932 | ug/l   | 85     |
| 27) cis-1,2-Dichloroethene   | 4.489 | 96  | 2052  | 0.917 | ug/l   | 88     |
| 28) Bromochloromethane       | 4.898 | 49  | 1270  | 0.897 | ug/l # | 66     |
| 29) Tetrahydrofuran          | 5.026 | 42  | 4418  | 4.255 | ug/l # | 68     |
| 30) Chloroform               | 5.093 | 83  | 3159  | 0.918 | ug/l   | 100    |
| 32) 1,1,1-Trichloroethane    | 5.379 | 97  | 2402  | 0.835 | ug/l # | 52     |
| 36) 1,1-Dichloropropene      | 5.690 | 75  | 2166  | 0.971 | ug/l # | 90     |
| 37) Ethyl Acetate            | 4.745 | 43  | 2204  | 0.759 | ug/l # | 90     |
| 38) Carbon Tetrachloride     | 5.666 | 117 | 2246  | 0.911 | ug/l   | 90     |
| 39) Methylcyclohexane        | 7.373 | 83  | 2620  | 0.929 | ug/l   | 96     |
| 40) Benzene                  | 6.038 | 78  | 7027  | 0.934 | ug/l   | 96     |
| 41) Methacrylonitrile        | 4.940 | 41  | 1281m | 0.813 | ug/l   |        |
| 42) 1,2-Dichloroethane       | 6.105 | 62  | 2200  | 0.908 | ug/l   | 87     |
| 43) Isopropyl Acetate        | 6.355 | 43  | 3824  | 0.857 | ug/l   | 100    |
| 44) Trichloroethene          | 7.129 | 130 | 1731  | 0.858 | ug/l   | 97     |
| 45) 1,2-Dichloropropane      | 7.440 | 63  | 1665  | 0.900 | ug/l   | 98     |

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 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/19/2024  
 Supervised By : Mahesh Dadoda 06/19/2024

Quant Time: Jun 19 07:55:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061824W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 19 07:55:43 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) Dibromomethane            | 7.586  | 93   | 1194     | 0.886  | ug/l # | 75       |
| 47) Bromodichloromethane      | 7.824  | 83   | 2190     | 0.885  | ug/l   | 90       |
| 48) Methyl methacrylate       | 7.714  | 41   | 1515     | 0.712  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 7.690  | 88   | 702      | 32.147 | ug/l # | 53       |
| 51) 4-Methyl-2-Pentanone      | 8.580  | 43   | 12851    | 4.183  | ug/l   | 100      |
| 52) Toluene                   | 8.720  | 92   | 4140     | 0.864  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.988  | 75   | 1800     | 1.584  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 8.379  | 75   | 1980     | 0.731  | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane     | 9.159  | 97   | 1681     | 0.842  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 9.122  | 69   | 2265     | 0.730  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 9.317  | 76   | 2836     | 0.880  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.251  | 63   | 5485     | 3.791  | ug/l   | 95       |
| 59) 2-Hexanone                | 9.439  | 43   | 9241     | 3.927  | ug/l   | 96       |
| 60) Dibromochloromethane      | 9.519  | 129  | 1682     | 0.776  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 1781     | 0.861  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.269  | 164  | 1889     | 0.988  | ug/l # | 82       |
| 65) Chlorobenzene             | 10.079 | 112  | 5173     | 0.947  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 1624     | 0.849  | ug/l # | 60       |
| 67) Ethyl Benzene             | 10.195 | 91   | 7562     | 0.883  | ug/l   | 96       |
| 68) m/p-Xylenes               | 10.305 | 106  | 6103     | 1.766  | ug/l   | 91       |
| 69) o-Xylene                  | 10.640 | 106  | 2859     | 0.835  | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 4490     | 0.782  | ug/l   | 93       |
| 71) Bromoform                 | 10.799 | 173  | 1269     | 1.580  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 7020     | 0.892  | ug/l   | 95       |
| 74) N-amyl acetate            | 10.848 | 43   | 2947     | 0.843  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 2969     | 1.015  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 2220m    | 0.945  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 2201     | 0.939  | ug/l   | 79       |
| 78) n-propylbenzene           | 11.305 | 91   | 7398     | 0.867  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 5163     | 0.939  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 5674     | 0.866  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 5380     | 0.885  | ug/l   | 93       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 6240     | 0.868  | ug/l   | 91       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 5338     | 0.812  | ug/l   | 91       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 6519     | 0.802  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 5882     | 0.828  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 3786     | 0.919  | ug/l   | 92       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 4151m    | 0.985  | ug/l   |          |
| 89) n-Butylbenzene            | 12.335 | 91   | 4369     | 0.799  | ug/l   | 95       |
| 90) Hexachloroethane          | 12.536 | 117  | 1035     | 0.856  | ug/l # | 57       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 3803     | 0.902  | ug/l   | 92       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 442      | 0.762  | ug/l # | 45       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 2171     | 0.786  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 1325     | 0.949  | ug/l   | 98       |
| 95) Naphthalene               | 13.780 | 128  | 6099     | 1.395  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 2407     | 0.827  | ug/l   | 91       |

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

