

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062722\  
 Data File : VU049403.D  
 Acq On : 27 Jun 2022 14:11  
 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/28/2022  
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 27 14:30:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U062722W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 27 14:20:27 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.375  | 168  | 173362   | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene    | 6.250  | 114  | 298191   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.420  | 117  | 274688   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.812 | 152  | 139331   | 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   | 1.385 | 85  | 2541  | 0.861 | ug/l   | 83     |
| 3) Chloromethane             | 1.520 | 50  | 5160  | 1.526 | ug/l   | 97     |
| 4) Vinyl Chloride            | 1.604 | 62  | 2588  | 0.889 | ug/l   | 100    |
| 6) Chloroethane              | 1.929 | 64  | 1684  | 1.467 | ug/l   | 97     |
| 7) Trichlorofluoromethane    | 2.138 | 101 | 3430  | 0.945 | ug/l   | 91     |
| 8) Diethyl Ether             | 2.376 | 74  | 1400  | 1.126 | ug/l   | 61     |
| 9) 1,1,2-Trichlorotrifluo... | 2.578 | 101 | 1708  | 0.861 | ug/l   | 89     |
| 12) 1,1-Dichloroethene       | 2.578 | 96  | 1949  | 1.041 | ug/l   | 98     |
| 14) Allyl chloride           | 2.925 | 41  | 3665  | 0.971 | ug/l # | 84     |
| 15) Acrylonitrile            | 3.324 | 53  | 7342  | 4.979 | ug/l   | 98     |
| 16) Acetone                  | 2.636 | 43  | 7568  | 6.216 | ug/l   | 97     |
| 17) Carbon Disulfide         | 2.793 | 76  | 6964  | 1.240 | ug/l # | 94     |
| 18) Methyl Acetate           | 2.954 | 43  | 3895  | 1.126 | ug/l # | 85     |
| 19) Methyl tert-butyl Ether  | 3.359 | 73  | 6911  | 0.994 | ug/l   | 96     |
| 20) Methylene Chloride       | 3.048 | 84  | 3293  | 1.467 | ug/l # | 77     |
| 21) trans-1,2-Dichloroethene | 3.356 | 96  | 2046  | 1.010 | ug/l # | 92     |
| 22) Diisopropyl ether        | 3.993 | 45  | 6776  | 0.926 | ug/l # | 77     |
| 23) Vinyl Acetate            | 3.961 | 43  | 28603 | 4.411 | ug/l # | 93     |
| 24) 1,1-Dichloroethane       | 3.867 | 63  | 3897  | 0.939 | ug/l # | 82     |
| 25) 2-Butanone               | 4.713 | 43  | 9459  | 4.937 | ug/l # | 88     |
| 26) 2,2-Dichloropropane      | 4.665 | 77  | 3359  | 0.963 | ug/l   | 87     |
| 27) cis-1,2-Dichloroethene   | 4.671 | 96  | 2311  | 0.991 | ug/l   | 75     |
| 28) Bromochloromethane       | 4.977 | 49  | 1749  | 0.937 | ug/l # | 74     |
| 29) Tetrahydrofuran          | 5.064 | 42  | 7241  | 5.472 | ug/l # | 82     |
| 30) Chloroform               | 5.086 | 83  | 4140  | 1.019 | ug/l   | 98     |
| 31) Cyclohexane              | 5.379 | 56  | 7624  | 1.937 | ug/l # | 58     |
| 32) 1,1,1-Trichloroethane    | 5.318 | 97  | 3223  | 0.871 | ug/l # | 51     |
| 36) 1,1-Dichloropropene      | 5.527 | 75  | 2997  | 0.979 | ug/l   | 91     |
| 37) Ethyl Acetate            | 4.826 | 43  | 3957m | 0.883 | ug/l   |        |
| 38) Carbon Tetrachloride     | 5.530 | 117 | 2972  | 0.911 | ug/l   | 97     |
| 39) Methylcyclohexane        | 6.768 | 83  | 3085  | 0.801 | ug/l   | 95     |
| 40) Benzene                  | 5.777 | 78  | 8954  | 0.977 | ug/l   | 96     |
| 41) Methacrylonitrile        | 4.996 | 41  | 2142m | 1.054 | ug/l   |        |
| 42) 1,2-Dichloroethane       | 5.800 | 62  | 3153  | 0.914 | ug/l   | 81     |
| 43) Isopropyl Acetate        | 5.916 | 43  | 5506  | 0.917 | ug/l # | 81     |
| 44) Trichloroethene          | 6.543 | 130 | 2140  | 0.988 | ug/l   | 86     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062722\  
 Data File : VU049403.D  
 Acq On : 27 Jun 2022 14:11  
 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/28/2022  
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 27 14:30:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U062722W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 27 14:20:27 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 45) 1,2-Dichloropropane       | 6.797  | 63   | 2687     | 1.075  | ug/l # | 86       |
| 46) Dibromomethane            | 6.919  | 93   | 1576     | 0.919  | ug/l   | 88       |
| 47) Bromodichloromethane      | 7.108  | 83   | 2977     | 0.904  | ug/l # | 85       |
| 48) Methyl methacrylate       | 6.964  | 41   | 2700     | 0.944  | ug/l # | 83       |
| 49) 1,4-Dioxane               | 6.986  | 88   | 1638     | 24.041 | ug/l # | 2        |
| 51) 4-Methyl-2-Pentanone      | 7.797  | 43   | 19807    | 4.856  | ug/l   | 93       |
| 52) Toluene                   | 7.973  | 92   | 5233     | 0.962  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.218  | 75   | 3114     | 0.864  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 7.613  | 75   | 3186     | 0.823  | ug/l   | 89       |
| 55) 1,1,2-Trichloroethane     | 8.401  | 97   | 2122     | 0.919  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 8.337  | 69   | 3318     | 0.836  | ug/l # | 85       |
| 57) 1,3-Dichloropropane       | 8.581  | 76   | 3823     | 0.950  | ug/l   | 99       |
| 59) 2-Hexanone                | 8.690  | 43   | 16045    | 5.097  | ug/l   | 91       |
| 60) Dibromochloromethane      | 8.816  | 129  | 1859     | 0.751  | ug/l   | 86       |
| 61) 1,2-Dibromoethane         | 8.925  | 107  | 2386     | 0.978  | ug/l   | 95       |
| 64) Tetrachloroethene         | 8.555  | 164  | 1778     | 1.015  | ug/l   | 94       |
| 65) Chlorobenzene             | 9.449  | 112  | 5723     | 1.030  | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane | 9.536  | 131  | 1846     | 0.851  | ug/l # | 63       |
| 67) Ethyl Benzene             | 9.575  | 91   | 9785     | 0.941  | ug/l   | 96       |
| 68) m/p-Xylenes               | 9.697  | 106  | 7114     | 1.846  | ug/l   | 93       |
| 69) o-Xylene                  | 10.099 | 106  | 3658     | 0.949  | ug/l   | 92       |
| 70) Styrene                   | 10.118 | 104  | 5145     | 0.802  | ug/l # | 88       |
| 71) Bromoform                 | 10.288 | 173  | 1424     | 0.750  | ug/l # | 88       |
| 73) Isopropylbenzene          | 10.488 | 105  | 8595     | 0.821  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 10.784 | 83   | 3738     | 0.888  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 10.822 | 75   | 4301     | 0.903  | ug/l   | 77       |
| 77) Bromobenzene              | 10.787 | 156  | 2595     | 1.067  | ug/l   | 86       |
| 78) n-propylbenzene           | 10.909 | 91   | 11228    | 0.887  | ug/l   | 91       |
| 79) 2-Chlorotoluene           | 10.989 | 91   | 7222     | 0.946  | ug/l   | 87       |
| 80) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 7767     | 0.854  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 11.099 | 91   | 7922     | 0.915  | ug/l   | 91       |
| 83) tert-Butylbenzene         | 11.420 | 119  | 7193     | 0.798  | ug/l   | 89       |
| 84) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 7518     | 0.828  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 11.645 | 105  | 9535     | 0.834  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 11.793 | 119  | 7958     | 0.862  | ug/l   | 89       |
| 87) 1,3-Dichlorobenzene       | 11.748 | 146  | 4818     | 1.051  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 11.838 | 146  | 5181m    | 1.153  | ug/l   |          |
| 89) n-Butylbenzene            | 12.211 | 91   | 8511     | 1.061  | ug/l   | 95       |
| 90) Hexachloroethane          | 12.475 | 117  | 1482     | 0.826  | ug/l   | 66       |
| 91) 1,2-Dichlorobenzene       | 12.214 | 146  | 4604     | 0.994  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.999 | 75   | 1047     | 0.985  | ug/l   | 59       |
| 93) 1,2,4-Trichlorobenzene    | 13.845 | 180  | 4434     | 1.510  | ug/l   | 92       |
| 94) Hexachlorobutadiene       | 14.021 | 225  | 1411     | 0.949  | ug/l   | 94       |
| 95) Naphthalene               | 14.089 | 128  | 22686    | 2.230  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 4780     | 1.540  | ug/l # | 88       |

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

