

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091422\  
 Data File : VX031303.D  
 Acq On : 14 Sep 2022 12:18  
 Operator : JC/MD  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Sep 15 01:24:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091422W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 15 01:23:56 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 09/15/2022  
 Supervised By : Mahesh Dadoda 09/15/2022

Supervised By : Mahesh  
 Dadoda  
 09/15/2022

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.555  | 168  | 49809    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.763  | 114  | 85571    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 92980    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 54830    | 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 | 74 - 125 | 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 | 86 - 113 | 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  | 565   | 1.051 | ug/l   | 93     |
| 3) Chloromethane             | 1.288 | 50  | 1099  | 1.336 | ug/l # | 79     |
| 4) Vinyl Chloride            | 1.367 | 62  | 888   | 1.020 | ug/l # | 87     |
| 6) Chloroethane              | 1.684 | 64  | 934   | 1.268 | ug/l # | 85     |
| 7) Trichlorofluoromethane    | 1.885 | 101 | 1694  | 1.062 | ug/l   | 90     |
| 8) Diethyl Ether             | 2.135 | 74  | 892   | 1.287 | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluo... | 2.330 | 101 | 823   | 1.091 | ug/l # | 85     |
| 12) 1,1-Dichloroethene       | 2.312 | 96  | 815   | 1.172 | ug/l # | 74     |
| 14) Allyl chloride           | 2.666 | 41  | 1775  | 1.155 | ug/l # | 77     |
| 15) Acrylonitrile            | 3.074 | 53  | 3227  | 5.723 | ug/l   | 96     |
| 16) Acetone                  | 2.391 | 43  | 3232  | 6.192 | ug/l   | 89     |
| 17) Carbon Disulfide         | 2.507 | 76  | 1638  | 1.078 | ug/l # | 92     |
| 18) Methyl Acetate           | 2.708 | 43  | 1707  | 1.103 | ug/l   | 98     |
| 19) Methyl tert-butyl Ether  | 3.111 | 73  | 3821  | 1.187 | ug/l   | 100    |
| 20) Methylene Chloride       | 2.794 | 84  | 1561  | 1.557 | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene | 3.086 | 96  | 1158  | 1.334 | ug/l   | 89     |
| 22) Diisopropyl ether        | 3.763 | 45  | 3539  | 1.101 | ug/l # | 89     |
| 23) Vinyl Acetate            | 3.727 | 43  | 14149 | 5.296 | ug/l   | 99     |
| 24) 1,1-Dichloroethane       | 3.611 | 63  | 1811  | 1.073 | ug/l # | 89     |
| 25) 2-Butanone               | 4.580 | 43  | 5168  | 6.003 | ug/l   | 93     |
| 26) 2,2-Dichloropropane      | 4.470 | 77  | 1793  | 1.120 | ug/l   | 88     |
| 27) cis-1,2-Dichloroethene   | 4.501 | 96  | 1218  | 1.192 | ug/l   | 85     |
| 28) Bromochloromethane       | 4.891 | 49  | 851   | 1.082 | ug/l # | 87     |
| 29) Tetrahydrofuran          | 5.013 | 42  | 3297  | 6.182 | ug/l   | 92     |
| 30) Chloroform               | 5.104 | 83  | 1977  | 1.107 | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane    | 5.379 | 97  | 1772  | 1.107 | ug/l # | 49     |
| 36) 1,1-Dichloropropene      | 5.696 | 75  | 1427  | 1.133 | ug/l # | 61     |
| 37) Ethyl Acetate            | 4.726 | 43  | 1862  | 1.125 | ug/l # | 90     |
| 38) Carbon Tetrachloride     | 5.671 | 117 | 1406  | 1.027 | ug/l # | 79     |
| 39) Methylcyclohexane        | 7.378 | 83  | 1355  | 0.977 | ug/l   | 92     |
| 40) Benzene                  | 6.037 | 78  | 3704  | 1.025 | ug/l # | 87     |
| 41) Methacrylonitrile        | 4.934 | 41  | 1085  | 1.211 | ug/l # | 63     |
| 42) 1,2-Dichloroethane       | 6.092 | 62  | 1385  | 0.950 | ug/l   | 79     |
| 43) Isopropyl Acetate        | 6.348 | 43  | 3223  | 1.141 | ug/l   | 95     |
| 44) Trichloroethene          | 7.128 | 130 | 998   | 1.083 | ug/l   | 71     |
| 45) 1,2-Dichloropropane      | 7.433 | 63  | 1016  | 1.027 | ug/l   | 100    |

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 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Sep 15 01:24:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091422W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 15 01:23:56 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John Carlone 09/15/2022  
 Supervised By :Mahesh Dadoda 09/15/2022

Supervised By :Mahesh  
 Dadoda  
 09/15/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) Dibromomethane            | 7.592  | 93   | 738      | 1.051  | ug/l   | 92       |
| 47) Bromodichloromethane      | 7.823  | 83   | 1514     | 1.037  | ug/l   | 89       |
| 48) Methyl methacrylate       | 7.701  | 41   | 1453     | 1.130  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 7.701  | 88   | 550      | 23.413 | ug/l # | 59       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 9120     | 5.313  | ug/l   | 100      |
| 52) Toluene                   | 8.720  | 92   | 2290     | 1.001  | ug/l   | 92       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 1615     | 0.983  | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 8.372  | 75   | 1833     | 1.086  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 9.152  | 97   | 1062     | 1.052  | ug/l # | 94       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 1607     | 0.983  | ug/l # | 85       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 1796     | 1.035  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 3662     | 4.809  | ug/l # | 88       |
| 59) 2-Hexanone                | 9.433  | 43   | 7082     | 5.405  | ug/l   | 94       |
| 60) Dibromochloromethane      | 9.524  | 129  | 1047     | 0.962  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 9.616  | 107  | 988      | 0.954  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.274  | 164  | 889      | 1.046  | ug/l # | 82       |
| 65) Chlorobenzene             | 10.079 | 112  | 2509     | 1.019  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.164 | 131  | 908      | 0.936  | ug/l # | 48       |
| 67) Ethyl Benzene             | 10.195 | 91   | 4223     | 0.947  | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.305 | 106  | 3079     | 1.818  | ug/l   | 88       |
| 69) o-Xylene                  | 10.640 | 106  | 1716     | 0.998  | ug/l   | 99       |
| 70) Styrene                   | 10.658 | 104  | 2547     | 0.911  | ug/l   | 95       |
| 71) Bromoform                 | 10.798 | 173  | 743      | 0.962  | ug/l # | 92       |
| 73) Isopropylbenzene          | 10.963 | 105  | 4203     | 1.038  | ug/l   | 98       |
| 74) N-amyl acetate            | 10.841 | 43   | 2229     | 1.107  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 1655     | 1.137  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.243 | 75   | 1379m    | 0.914  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 953      | 1.032  | ug/l   | 86       |
| 78) n-propylbenzene           | 11.304 | 91   | 4935     | 1.038  | ug/l   | 93       |
| 79) 2-Chlorotoluene           | 11.365 | 91   | 3262     | 1.122  | ug/l   | 91       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 3369     | 0.993  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 3427     | 1.028  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 3464     | 1.020  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 11.749 | 105  | 3366     | 0.998  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 4231     | 0.995  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 3292     | 0.950  | ug/l   | 88       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 1761     | 1.000  | ug/l   | 92       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 1838m    | 1.016  | ug/l   |          |
| 89) n-Butylbenzene            | 12.335 | 91   | 2929     | 0.954  | ug/l   | 93       |
| 90) Hexachloroethane          | 12.536 | 117  | 709      | 1.025  | ug/l   | 79       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 1834     | 1.023  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.944 | 75   | 518      | 1.346  | ug/l   | 60       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 861      | 0.887  | ug/l   | 85       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 386      | 1.019  | ug/l   | 92       |
| 95) Naphthalene               | 13.780 | 128  | 4027     | 1.021  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 1116     | 1.074  | ug/l   | 85       |

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

## Manual Integrations

Supervised By :Maresh  
Dadoda  
09/15/2022

TIC: VX031303.D\data.ms

09/15/2022

Abundance

Time-->

Chlorodifluoromethane, T  
Vinyl Chloride  
Chloroethane, T  
Trichlorofluoromethane, T  
Diethyl Ether, T  
1,1-Dichloroethene, T  
Carbon Disulfide, T  
Methylene Chloride, T  
Acetylene, T  
Benzene, T  
1,1-Dichloroethane, P  
Dibromopropane, T  
Ethyl Acetate, T  
Bromoacetaldehyde, T  
Benzonitrile, T  
Chloroform, C  
1,1,1-Trichloroethane, T  
Carbon Tetrachloride, T  
Benzene, TM  
Isopropyl Acetate, T  
1,4-Difluorobenzene, I  
Pentafluorobenzene, I  
Trichloroethene, TM  
Methylcyclohexane, C  
Dimethylsiloxane, T  
Bromochloromethane, T  
cis-1,3-Dichloropropene, T  
4-Methyl-2-Pentanone, T  
Toluene, CM  
1,3-Dichloropropene, T  
Ethylchloroacetate, T  
1,3-Dibromopropane, I  
Dibromomethane, T  
Chlorobenzene, PM  
1,4-Dibromobenzene, T  
m,p-Xylenes, I  
Styrene, T  
Butylchloroacetate, T  
Isopropylbenzene, T  
1,2-Dichlorobenzene, P  
2-Ethylanthracene, T  
1,2,3-Trichlorobenzene, T  
1,2,4-Trichlorobenzene, T  
1,3,5-Trichlorobenzene, T  
1,4-Dichlorobenzene, T  
Hexachloroethane, T  
1,2-Dibromo-3-Chloropropane, T  
1,2,4-Trichlorobenzene, T  
Hexachlorocyclopentadiene, I  
1,2,3-Trichlorobenzene, T

Chlorobenzene-d5, I

p-Isopropyltoluene, T

1,4-Dichlorobenzene-d4, I