

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW102621\  
 Data File : VW020695.D  
 Acq On : 26 Oct 2021 12:40  
 Operator : SY/VA  
 Sample : VW1026SBS01  
 Misc : 5.00g/5mL/MSVOA\_W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1026SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/27/2021 5:02:15 PM

Quant Time: Oct 27 05:57:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W102221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 23 05:58:59 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 7.945  | 168   | 121023   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.842  | 114   | 171704   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.628 | 117   | 156991   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.560 | 152   | 86475    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.305  | 65    | 60952    | 45.330   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =      | 90.660%  |
| 35) Dibromofluoromethane     | 7.885  | 113   | 54767    | 48.772   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =      | 97.540%  |
| 50) Toluene-d8               | 10.323 | 98    | 206803   | 48.183   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | =      | 96.360%  |
| 62) 4-Bromofluorobenzene     | 12.615 | 95    | 78779    | 50.069   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | =      | 100.140% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.008  | 85    | 5330     | 18.992   | ug/l   | 98       |
| 3) Chloromethane             | 2.215  | 50    | 14711    | 18.371   | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.355  | 62    | 18666    | 18.172   | ug/l   | 98       |
| 5) Bromomethane              | 2.763  | 94    | 11133    | 18.234   | ug/l   | 92       |
| 6) Chloroethane              | 2.910  | 64    | 7151     | 15.666   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.251  | 101   | 12777    | 17.388   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.678  | 74    | 10575    | 18.039   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.056  | 101   | 23196    | 19.233   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.263  | 142   | 26953    | 18.001   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.178  | 59    | 7028     | 85.344   | ug/l # | 86       |
| 12) 1,1-Dichloroethene       | 4.038  | 96    | 21190    | 18.814   | ug/l   | 96       |
| 13) Acrolein                 | 3.891  | 56    | 6199     | 84.092   | ug/l   | 96       |
| 14) Allyl chloride           | 4.666  | 41    | 34936    | 19.213   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.367  | 53    | 25851    | 86.450   | ug/l   | 99       |
| 16) Acetone                  | 4.123  | 43    | 28003    | 85.216   | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.379  | 76    | 57162    | 17.463   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.672  | 43    | 17682    | 17.427   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.422  | 73    | 36530    | 18.908   | ug/l   | 94       |
| 20) Methylene Chloride       | 4.909  | 84    | 27140    | 16.674   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.422  | 96    | 23821    | 18.938   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.318  | 45    | 72354    | 20.336   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.257  | 43    | 193274   | 92.745   | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.214  | 63    | 44839    | 19.712   | ug/l   | 97       |
| 25) 2-Butanone               | 7.171  | 43    | 34735    | 84.706   | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.171  | 77    | 29407    | 19.753   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.165  | 96    | 26227    | 19.566   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.513  | 49    | 17839    | 18.971   | ug/l # | 97       |
| 29) Tetrahydrofuran          | 7.537  | 42    | 21611    | 86.139   | ug/l   | 96       |
| 30) Chloroform               | 7.677  | 83    | 46165    | 19.457   | ug/l   | 97       |
| 31) Cyclohexane              | 7.952  | 56    | 42134    | 18.463   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.872  | 97    | 37805    | 18.841   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.080  | 75    | 35966    | 19.450   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.250  | 43    | 15410    | 18.010   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.067  | 117   | 35427    | 19.321   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.335  | 83    | 41314    | 19.163   | ug/l   | 98       |
| 40) Benzene                  | 8.323  | 78    | 116975   | 23.116   | ug/l   | 100      |

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 Misc : 5.00g/5mL/MSVOA\_W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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MMDadoda  
 10/27/2021 5:02:15 PM

Quant Time: Oct 27 05:57:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W102221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 23 05:58:59 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.482  | 41   | 9427     | 18.912  | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 8.403  | 62   | 31258    | 19.187  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.427  | 43   | 28821    | 18.150  | ug/l   | 98       |
| 44) Trichloroethene           | 9.092  | 130  | 26836    | 19.512  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.366  | 63   | 24428    | 20.137  | ug/l   | 98       |
| 46) Dibromomethane            | 9.457  | 93   | 13179    | 19.338  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.646  | 83   | 33763    | 20.099  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.439  | 41   | 14390    | 18.835  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.451  | 88   | 3216     | 355.069 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.213 | 43   | 77026    | 89.218  | ug/l   | 100      |
| 52) Toluene                   | 10.390 | 92   | 64519    | 20.295  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.604 | 75   | 33442    | 19.563  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.073 | 75   | 38963    | 20.119  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.786 | 97   | 18621    | 19.612  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.646 | 69   | 22296    | 18.265  | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.933 | 76   | 31890    | 19.385  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.927  | 63   | 56675    | 103.010 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.969 | 43   | 54785    | 89.687  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.128 | 129  | 22164    | 19.801  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 17386    | 18.924  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.866 | 164  | 23898    | 19.606  | ug/l   | 91       |
| 65) Chlorobenzene             | 11.658 | 112  | 67858    | 20.080  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.731 | 131  | 25021    | 20.424  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.731 | 91   | 122878   | 20.080  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.841 | 106  | 95383    | 40.315  | ug/l   | 99       |
| 69) o-Xylene                  | 12.164 | 106  | 43441    | 19.923  | ug/l   | 99       |
| 70) Styrene                   | 12.183 | 104  | 77003    | 20.615  | ug/l   | 99       |
| 71) Bromoform                 | 12.347 | 173  | 13344    | 18.579  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.463 | 105  | 123007   | 19.748  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.274 | 43   | 27125    | 17.943  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 20887    | 17.898  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.768 | 75   | 17190m   | 17.943  | ug/l   |          |
| 77) Bromobenzene              | 12.743 | 156  | 29495    | 19.741  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.804 | 91   | 152099   | 19.881  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 87478    | 19.877  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.945 | 105  | 106349   | 19.754  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.512 | 75   | 6800     | 18.233  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.987 | 91   | 92423    | 19.966  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.207 | 119  | 93545    | 20.134  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 108292   | 20.319  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.384 | 105  | 138281   | 19.840  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.493 | 119  | 121306   | 20.460  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.499 | 146  | 60178    | 19.571  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 60343    | 19.653  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.822 | 91   | 113402   | 20.625  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.091 | 117  | 20499    | 19.810  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.871 | 146  | 52156    | 19.100  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.481 | 75   | 3717     | 17.647  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.127 | 180  | 36268    | 20.021  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.231 | 225  | 23368    | 19.921  | ug/l   | 95       |
| 95) Naphthalene               | 15.365 | 128  | 58499    | 18.133  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.548 | 180  | 31540    | 19.229  | ug/l   | 100      |

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ALS Vial : 4 Sample Multiplier: 1

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VW1026SBS01

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10/27/2021 5:02:15 PM

Quant Time: Oct 27 05:57:44 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W102221S.M  
Quant Title : SW846 8260  
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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

