

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW102621\  
 Data File : VW020696.D  
 Acq On : 26 Oct 2021 13:04  
 Operator : SY/VA  
 Sample : VW1026SBS01  
 Misc : 5.00g/5mL/MSVOA\_W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1026SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/27/2021 5:02:17 PM

Quant Time: Oct 27 05:58:23 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        | 7.951          | 168  | 113260     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.841          | 114  | 167504     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.633         | 117  | 152300     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.560         | 152  | 80174      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.305          | 65   | 59752      | 47.483  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 94.960% |        |          |
| 35) Dibromofluoromethane     | 7.884          | 113  | 52095      | 47.556  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 95.120% |        |          |
| 50) Toluene-d8               | 10.323         | 98   | 204266     | 48.785  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 97.580% |        |          |
| 62) 4-Bromofluorobenzene     | 12.615         | 95   | 76184      | 49.634  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 99.260% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.007          | 85   | 4913       | 18.817  | ug/l   | 95       |
| 3) Chloromethane             | 2.214          | 50   | 14584      | 19.461  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.355          | 62   | 18791      | 19.547  | ug/l   | 96       |
| 5) Bromomethane              | 2.763          | 94   | 10897      | 19.070  | ug/l   | 100      |
| 6) Chloroethane              | 2.909          | 64   | 7321       | 17.138  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.251          | 101  | 11476      | 16.688  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.684          | 74   | 10121      | 18.448  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.062          | 101  | 21746      | 19.266  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.263          | 142  | 26497      | 18.909  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.171          | 59   | 6320       | 82.007  | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 4.031          | 96   | 19851      | 18.833  | ug/l   | 90       |
| 13) Acrolein                 | 3.897          | 56   | 6163       | 89.334  | ug/l   | 100      |
| 14) Allyl chloride           | 4.665          | 41   | 33482      | 19.675  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.372          | 53   | 23958      | 85.611  | ug/l   | 100      |
| 16) Acetone                  | 4.123          | 43   | 24141      | 78.498  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.379          | 76   | 53987      | 17.624  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.671          | 43   | 16121      | 16.978  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.433          | 73   | 33377      | 18.460  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.915          | 84   | 26056      | 17.304  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.427          | 96   | 22907      | 19.460  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.311          | 45   | 67785      | 20.357  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.256          | 43   | 179727     | 92.156  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.214          | 63   | 42428      | 19.930  | ug/l   | 98       |
| 25) 2-Butanone               | 7.171          | 43   | 30380      | 79.164  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.171          | 77   | 28366      | 20.360  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.171          | 96   | 24705      | 19.693  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.512          | 49   | 16288      | 18.508  | ug/l # | 100      |
| 29) Tetrahydrofuran          | 7.537          | 42   | 19191      | 81.736  | ug/l   | 98       |
| 30) Chloroform               | 7.677          | 83   | 43872      | 19.758  | ug/l   | 96       |
| 31) Cyclohexane              | 7.951          | 56   | 40213      | 18.829  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.872          | 97   | 37150      | 19.784  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.079          | 75   | 34339      | 19.035  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.256          | 43   | 13737      | 16.458  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.067          | 117  | 34227      | 19.135  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.335          | 83   | 39462      | 18.762  | ug/l   | 98       |
| 40) Benzene                  | 8.323          | 78   | 97280      | 19.706  | ug/l   | 99       |

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 ALS Vial : 5 Sample Multiplier: 1

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Manual Integrations  
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MMDadoda  
 10/27/2021 5:02:17 PM

Quant Time: Oct 27 05:58:23 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   | 8324     | 17.118  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.402  | 62   | 29634    | 18.647  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.427  | 43   | 25947    | 16.750  | ug/l   | 97       |
| 44) Trichloroethene           | 9.091  | 130  | 25820    | 19.244  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.372  | 63   | 22756    | 19.229  | ug/l   | 98       |
| 46) Dibromomethane            | 9.457  | 93   | 12217    | 18.376  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.646  | 83   | 31741    | 19.369  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.439  | 41   | 11994    | 16.092  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.451  | 88   | 2794     | 316.212 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.213 | 43   | 69121    | 82.069  | ug/l   | 100      |
| 52) Toluene                   | 10.390 | 92   | 60625    | 19.549  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.609 | 75   | 30998    | 18.588  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.073 | 75   | 36202    | 19.162  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.786 | 97   | 17048    | 18.405  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.646 | 69   | 20692    | 17.376  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.932 | 76   | 30113    | 18.763  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.926  | 63   | 51568    | 96.077  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.969 | 43   | 47908    | 80.396  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.127 | 129  | 19991    | 18.307  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.237 | 107  | 15902    | 17.743  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.865 | 164  | 22421    | 18.960  | ug/l   | 91       |
| 65) Chlorobenzene             | 11.658 | 112  | 63874    | 19.483  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.731 | 131  | 23311    | 19.615  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.731 | 91   | 117202   | 19.742  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.841 | 106  | 91266    | 39.763  | ug/l   | 100      |
| 69) o-Xylene                  | 12.164 | 106  | 41348    | 19.548  | ug/l   | 100      |
| 70) Styrene                   | 12.182 | 104  | 71572    | 19.752  | ug/l   | 99       |
| 71) Bromoform                 | 12.347 | 173  | 12194    | 17.501  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.463 | 105  | 116025   | 20.091  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.274 | 43   | 24894    | 17.761  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 19316    | 17.853  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 15744m   | 17.725  | ug/l   |          |
| 77) Bromobenzene              | 12.743 | 156  | 27819    | 20.082  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.804 | 91   | 145961   | 20.578  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.889 | 91   | 82073    | 20.114  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.938 | 105  | 101305   | 20.295  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.511 | 75   | 6194     | 17.913  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.987 | 91   | 87691    | 20.433  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.206 | 119  | 86591    | 20.102  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 101219   | 20.485  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.383 | 105  | 131265   | 20.313  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.499 | 119  | 113518   | 20.652  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.499 | 146  | 57481    | 20.163  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.578 | 146  | 55880    | 19.629  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.822 | 91   | 104284   | 20.457  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.090 | 117  | 19692    | 20.526  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.865 | 146  | 48999    | 19.354  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.481 | 75   | 3335     | 17.078  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.133 | 180  | 34579    | 20.589  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.230 | 225  | 23156    | 21.291  | ug/l   | 97       |
| 95) Naphthalene               | 15.365 | 128  | 52408    | 17.521  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.554 | 180  | 29133    | 19.157  | ug/l   | 97       |

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QLast Update : Sat Oct 23 05:58:59 2021  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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