

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW071921\  
 Data File : VW019500.D  
 Acq On : 19 Jul 2021 10:55  
 Operator : SY/VA  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 7/20/2021 5:40:22 PM

Quant Time: Jul 20 04:20:34 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W071921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 20 04:18:17 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.951          | 168  | 277920     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.848          | 114  | 469186     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.634         | 117  | 422483     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.560         | 152  | 209788     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.311          | 65   | 138929     | 45.025  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 90.040% |        |          |
| 35) Dibromofluoromethane     | 7.890          | 113  | 130903     | 45.666  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 91.340% |        |          |
| 50) Toluene-d8               | 10.329         | 98   | 506605     | 45.646  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 91.300% |        |          |
| 62) 4-Bromofluorobenzene     | 12.621         | 95   | 194551     | 46.732  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 93.460% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.013          | 85   | 103143     | 52.053  | ug/l   | 100      |
| 3) Chloromethane             | 2.221          | 50   | 115516     | 48.098  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.367          | 62   | 165707     | 50.619  | ug/l   | 100      |
| 5) Bromomethane              | 2.788          | 94   | 96480      | 51.069  | ug/l   | 100      |
| 6) Chloroethane              | 2.928          | 64   | 95838      | 51.640  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.263          | 101  | 108072     | 51.792  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.690          | 74   | 80365      | 49.261  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.074          | 101  | 148099     | 50.456  | ug/l   | 100      |
| 10) Methyl Iodide            | 4.287          | 142  | 194177     | 50.806  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.202          | 59   | 47569      | 219.128 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.050          | 96   | 156283     | 51.160  | ug/l   | 100      |
| 13) Acrolein                 | 3.903          | 56   | 42590      | 230.518 | ug/l   | 100      |
| 14) Allyl chloride           | 4.672          | 41   | 226173     | 51.550  | ug/l   | 100      |
| 15) Acrylonitrile            | 5.373          | 53   | 172536     | 247.811 | ug/l   | 100      |
| 16) Acetone                  | 4.141          | 43   | 124343     | 246.003 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.391          | 76   | 447304     | 51.189  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.678          | 43   | 77781      | 46.339  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.428          | 73   | 216475     | 50.388  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.922          | 84   | 175355     | 46.508  | ug/l   | 100      |
| 21) trans-1,2-Dichloroethene | 5.428          | 96   | 172243     | 51.796  | ug/l   | 100      |
| 22) Diisopropyl ether        | 6.318          | 45   | 484591     | 51.617  | ug/l   | 100      |
| 23) Vinyl Acetate            | 6.263          | 43   | 1469562    | 260.729 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.220          | 63   | 320386     | 51.099  | ug/l   | 100      |
| 25) 2-Butanone               | 7.177          | 43   | 212823     | 244.770 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 7.171          | 77   | 168177     | 50.382  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.171          | 96   | 192034     | 51.766  | ug/l   | 100      |
| 28) Bromochloromethane       | 7.519          | 49   | 123703     | 49.411  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.537          | 42   | 142635     | 246.939 | ug/l   | 100      |
| 30) Chloroform               | 7.677          | 83   | 306842     | 50.079  | ug/l   | 100      |
| 31) Cyclohexane              | 7.958          | 56   | 283666     | 48.574  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 7.872          | 97   | 229404     | 50.415  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 8.086          | 75   | 251123     | 50.206  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.256          | 43   | 102150     | 48.730  | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 8.073          | 117  | 218375     | 49.976  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.335          | 83   | 304417     | 51.204  | ug/l   | 100      |
| 40) Benzene                  | 8.329          | 78   | 703197     | 50.231  | ug/l   | 100      |

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 ALS Vial : 6 Sample Multiplier: 1

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Quant Time: Jul 20 04:20:34 2021  
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 Quant Title : SW846 8260  
 QLast Update : Tue Jul 20 04:18:17 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.488  | 41   | 63876    | 53.670  | ug/l   | 100      |
| 42) 1,2-Dichloroethane        | 8.403  | 62   | 200107   | 49.546  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.427  | 43   | 189626   | 48.389  | ug/l   | 100      |
| 44) Trichloroethene           | 9.091  | 130  | 174377   | 49.429  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.372  | 63   | 175190   | 49.552  | ug/l   | 100      |
| 46) Dibromomethane            | 9.463  | 93   | 87186    | 48.615  | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.646  | 83   | 225868   | 50.142  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.439  | 41   | 87791    | 48.895  | ug/l   | 100      |
| 49) 1,4-Dioxane               | 9.463  | 88   | 26042    | 981.526 | ug/l # | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.213 | 43   | 489531   | 242.184 | ug/l   | 100      |
| 52) Toluene                   | 10.390 | 92   | 432864   | 49.813  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.610 | 75   | 230586   | 50.183  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.073 | 75   | 276276   | 50.531  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.786 | 97   | 124725   | 49.380  | ug/l   | 100      |
| 56) Ethyl methacrylate        | 10.646 | 69   | 168186   | 50.854  | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.933 | 76   | 223148   | 48.846  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.927  | 63   | 364047   | 237.852 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.969 | 43   | 325486   | 242.705 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.128 | 129  | 137145   | 49.419  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.237 | 107  | 116311   | 48.779  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.866 | 164  | 141359   | 49.818  | ug/l   | 100      |
| 65) Chlorobenzene             | 11.658 | 112  | 446057   | 49.635  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.731 | 131  | 156884   | 50.752  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.731 | 91   | 838540   | 50.972  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.841 | 106  | 642394   | 102.148 | ug/l   | 100      |
| 69) o-Xylene                  | 12.170 | 106  | 303529   | 51.626  | ug/l   | 100      |
| 70) Styrene                   | 12.182 | 104  | 513231   | 51.674  | ug/l   | 100      |
| 71) Bromoform                 | 12.347 | 173  | 78856    | 51.167  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.463 | 105  | 802753   | 50.363  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.274 | 43   | 177028   | 48.542  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 142208   | 47.440  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.768 | 75   | 96328m   | 46.459  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 176563   | 49.140  | ug/l   | 100      |
| 78) n-propylbenzene           | 12.804 | 91   | 1002941  | 50.328  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 584077   | 49.850  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.944 | 105  | 683046   | 50.253  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.512 | 75   | 44488    | 48.900  | ug/l   | 100      |
| 82) 4-Chlorotoluene           | 12.987 | 91   | 599716   | 49.498  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.207 | 119  | 584012   | 50.645  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 683484   | 50.248  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.383 | 105  | 903437   | 50.971  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.499 | 119  | 732515   | 50.153  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.499 | 146  | 361201   | 49.115  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.578 | 146  | 351134   | 48.237  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.822 | 91   | 715729   | 50.057  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.091 | 117  | 128092   | 49.746  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.871 | 146  | 318284   | 49.208  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.481 | 75   | 23168    | 46.614  | ug/l   | 100      |
| 93) 1,2,4-Trichlorobenzene    | 15.133 | 180  | 216123   | 49.500  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.237 | 225  | 120978   | 48.978  | ug/l   | 100      |
| 95) Naphthalene               | 15.365 | 128  | 404344   | 50.564  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.554 | 180  | 182685   | 47.866  | ug/l   | 100      |

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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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