

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081420\  
 Data File : VW016190.D  
 Acq On : 14 Aug 2020 14:25  
 Operator : SY/VA  
 Sample : VW0814SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0814SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/17/2020 5:46:36 PM

Quant Time: Aug 17 08:34:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081420S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 17 08:01:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 269249   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 448089   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 405210   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 197101   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 135228   | 51.50  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.00% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 138005   | 49.92  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.84%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 549277   | 51.33  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 102.66% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 197977   | 51.75  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.50% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 37787    | 20.637  | ug/l   | 95     |
| 3) Chloromethane              | 2.21 | 50   | 38461    | 19.729  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.36 | 62   | 52962    | 19.410  | ug/l   | 93     |
| 5) Bromomethane               | 2.78 | 94   | 35875    | 21.146  | ug/l   | 95     |
| 6) Chloroethane               | 2.92 | 64   | 30970    | 20.098  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 39652    | 17.950  | ug/l   | 96     |
| 8) Diethyl Ether              | 3.67 | 74   | 28348    | 20.450  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 55397    | 19.124  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.26 | 142  | 80414    | 19.213  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.18 | 59   | 21936    | 156.973 | ug/l # | 80     |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 58119    | 19.716  | ug/l   | 97     |
| 13) Acrolein                  | 3.89 | 56   | 21681    | 107.405 | ug/l   | 99     |
| 14) Allyl chloride            | 4.67 | 41   | 79228    | 20.060  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 56798    | 108.740 | ug/l   | 100    |
| 16) Acetone                   | 4.12 | 43   | 52771    | 104.912 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.37 | 76   | 165547   | 19.127  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.67 | 43   | 25746    | 21.980  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 76503    | 21.077  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.91 | 84   | 82222    | 23.717  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 61880    | 19.277  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.32 | 45   | 153934   | 20.674  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.26 | 43   | 448654   | 105.233 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 101325   | 19.498  | ug/l   | 98     |
| 25) 2-Butanone                | 7.17 | 43   | 71349    | 105.841 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.16 | 77   | 65721    | 19.578  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 66336    | 20.021  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.51 | 49   | 39282    | 19.924  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.53 | 42   | 44978    | 111.618 | ug/l   | 98     |
| 30) Chloroform                | 7.68 | 83   | 105347   | 19.511  | ug/l   | 94     |
| 31) Cyclohexane               | 7.95 | 56   | 94401    | 19.700  | ug/l # | 96     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 89619    | 19.755  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 86703    | 19.641  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43   | 31659    | 20.918  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 83781    | 19.019  | ug/l   | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Mon Aug 17 08:01:41 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 105804   | 19.898  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 241460   | 19.444  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.48  | 41   | 18192    | 21.061  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 64828    | 19.766  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 57724    | 20.273  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 65073    | 18.502  | ug/l   | 92       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 57796    | 19.744  | ug/l   | 96       |
| 46) Dibromomethane             | 9.46  | 93   | 30722    | 19.990  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 75470    | 19.007  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 27014    | 20.408  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 8856     | 457.626 | ug/l # | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 152059   | 105.588 | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 156717   | 19.708  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 73890    | 20.098  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 90334    | 19.770  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 44490    | 20.175  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 52327    | 20.808  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 76346    | 20.349  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 119483   | 104.211 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 103707   | 105.266 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 51515    | 19.638  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 42063    | 19.815  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.86 | 164  | 51169    | 19.245  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.66 | 112  | 164533   | 19.811  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 57519    | 19.813  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.73 | 91   | 298348   | 19.988  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 228546   | 39.835  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 104505   | 20.446  | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 177770   | 20.099  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 26632    | 20.498  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.47 | 105  | 292934   | 19.503  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 55016    | 20.454  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 49662    | 19.760  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 34693m   | 19.139  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 63939    | 19.246  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.80 | 91   | 346349   | 19.319  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 200185   | 19.330  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 252711   | 19.600  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 14537    | 19.236  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 210167   | 19.493  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 208128   | 19.696  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 254787   | 19.970  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 302018   | 19.665  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 274843   | 19.786  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 129299   | 19.434  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 127619   | 19.480  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 257448   | 20.034  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 48236    | 18.607  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 113838   | 19.626  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7793     | 20.171  | ug/l   | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 69901    | 20.209 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 38798    | 18.866 | ug/l  | 97       |
| 95) Naphthalene            | 15.37 | 128  | 125953   | 19.702 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 59730    | 20.108 | ug/l  | 99       |

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

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