

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031219\  
 Data File : VW009124.D  
 Acq On : 12 Mar 2019 15:20  
 Operator : SY/VA  
 Sample : VW0312SBSD01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0312SBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 3/14/2019 3:12:22 PM

Quant Time: Mar 13 05:19:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 05:22:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 182099   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 231462   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 199996   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 98073    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 67057    | 36.60 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 73.20%  |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 66373    | 47.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.26%  |      |
| 50) Toluene-d8            | 10.32  | 98  | 316550   | 55.30 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.60% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 99857    | 44.32 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.64%  |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 49974  | 27.231 | ug/l   | 96     |
| 3) Chloromethane              | 2.21 | 50  | 53857  | 23.101 | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.35 | 62  | 54905  | 23.206 | ug/l   | 97     |
| 5) Bromomethane               | 2.78 | 94  | 35940  | 17.996 | ug/l   | 99     |
| 6) Chloroethane               | 2.92 | 64  | 34305  | 20.367 | ug/l   | 91     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 76639  | 25.158 | ug/l   | 89     |
| 8) Diethyl Ether              | 3.68 | 74  | 12896  | 13.845 | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 46889  | 24.714 | ug/l   | 99     |
| 10) Methyl Iodide             | 4.27 | 142 | 33245  | 18.311 | ug/l   | 97     |
| 11) Tert butyl alcohol        | 5.18 | 59  | 7335   | 52.246 | ug/l # | 90     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 37852  | 23.129 | ug/l   | 82     |
| 13) Acrolein                  | 3.90 | 56  | 7258   | 46.980 | ug/l   | 90     |
| 14) Allyl chloride            | 4.67 | 41  | 53055  | 18.378 | ug/l   | 94     |
| 15) Acrylonitrile             | 5.37 | 53  | 21550  | 53.009 | ug/l   | 97     |
| 16) Acetone                   | 4.14 | 43  | 23787  | 57.536 | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.38 | 76  | 118139 | 21.455 | ug/l   | 99     |
| 18) Methyl Acetate            | 4.68 | 43  | 10997  | 11.567 | ug/l   | 93     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 54166  | 12.512 | ug/l   | 94     |
| 20) Methylene Chloride        | 4.92 | 84  | 34301  | 13.697 | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 38520  | 20.384 | ug/l   | 92     |
| 22) Diisopropyl ether         | 6.31 | 45  | 86114  | 15.010 | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.26 | 43  | 211222 | 59.165 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 63411  | 19.056 | ug/l   | 99     |
| 25) 2-Butanone                | 7.18 | 43  | 30744  | 53.808 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 66117  | 21.859 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 35299  | 17.393 | ug/l   | 94     |
| 28) Bromochloromethane        | 7.51 | 49  | 18878  | 13.639 | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 18013  | 50.028 | ug/l   | 96     |
| 30) Chloroform                | 7.67 | 83  | 61795  | 18.038 | ug/l   | 93     |
| 31) Cyclohexane               | 7.95 | 56  | 77137  | 22.576 | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 68746  | 21.744 | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 61198  | 25.286 | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 12449  | 10.951 | ug/l # | 79     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 65161  | 26.070 | ug/l   | 97     |

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 Sample : VW0312SBSD01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0312SBSD01

Manual Integrations  
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MMDadoda  
 3/14/2019 3:12:22 PM

Quant Time: Mar 13 05:19:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 05:22:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 74095    | 25.704  | ug/l   | 95       |
| 40) Benzene                    | 8.32  | 78   | 137234   | 21.242  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.48  | 41   | 6915     | 10.954  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 34403    | 16.494  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 26440    | 12.488  | ug/l   | 96       |
| 44) Trichloroethene            | 9.09  | 130  | 42002    | 23.196  | ug/l   | 85       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 30404    | 18.790  | ug/l # | 85       |
| 46) Dibromomethane             | 9.46  | 93   | 13494    | 15.270  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.64  | 83   | 40279    | 18.006  | ug/l # | 98       |
| 48) Methyl methacrylate        | 9.43  | 41   | 13102    | 13.290  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 3299     | 260.697 | ug/l # | 73       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 66069    | 61.467  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 97321    | 22.212  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 32929    | 14.883  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 41361    | 16.268  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 18473    | 15.423  | ug/l   | 86       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 18787    | 12.638  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 31396    | 14.797  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 46293    | 60.072  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.97 | 43   | 45671    | 60.434  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.13 | 129  | 21178    | 14.287  | ug/l   | 93       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 16544    | 14.090  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.86 | 164  | 39581    | 27.443  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.66 | 112  | 94782    | 21.773  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 29931    | 20.592  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 187775   | 23.877  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 144811   | 46.651  | ug/l   | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 63620    | 22.027  | ug/l   | 95       |
| 70) Styrene                    | 12.18 | 104  | 91868    | 19.659  | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 12242    | 15.686  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.46 | 105  | 192611   | 27.425  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 24040    | 14.459  | ug/l # | 94       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 19743    | 17.821  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 13496m   | 17.417  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 35839    | 22.334  | ug/l   | 95       |
| 78) n-propylbenzene            | 12.80 | 91   | 236417   | 27.329  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 120627   | 24.819  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 152915   | 25.259  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 5689     | 16.422  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 122049   | 23.557  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 138571   | 27.140  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 142906   | 23.336  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 208441   | 27.554  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 175410   | 25.920  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 76729    | 22.752  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 71808    | 21.546  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 161186   | 25.055  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 30779    | 26.371  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 61481    | 20.663  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 3092     | 15.671  | ug/l   | 99       |

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Operator : SY/VA  
Sample : VW0312SBSD01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0312SBSD01

Manual Integrations  
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MMDadoda  
3/14/2019 3:12:22 PM

Quant Time: Mar 13 05:19:32 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W030719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 08 05:22:30 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 33948    | 16.894 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 32820    | 26.076 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 39454    | 11.995 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 26759    | 15.144 | ug/l  | 99       |

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

