

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041520\  
 Data File : VW015205.D  
 Acq On : 15 Apr 2020 16:38  
 Operator : SY/VA  
 Sample : VW0415SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0415SBS01

Quant Time: Apr 16 04:43:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W041520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 15 14:44:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 552565   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 942345   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 821721   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 371618   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 254022   | 48.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.24%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 265249   | 50.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.80% |          |
| 50) Toluene-d8              | 10.32 | 98   | 1081337  | 51.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.16% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 368903   | 49.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.50%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 71531    | 21.749  | ug/l  | 99     |
| 3) Chloromethane              | 2.21 | 50   | 96844    | 19.861  | ug/l  | 98     |
| 4) Vinyl Chloride             | 2.37 | 62   | 131301   | 22.867  | ug/l  | 99     |
| 5) Bromomethane               | 2.78 | 94   | 68187    | 22.557  | ug/l  | 98     |
| 6) Chloroethane               | 2.92 | 64   | 59559    | 21.028  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 3.25 | 101  | 82274    | 22.361  | ug/l  | 100    |
| 8) Diethyl Ether              | 3.68 | 74   | 57976    | 20.439  | ug/l  | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101  | 119245   | 21.326  | ug/l  | 98     |
| 10) Methyl Iodide             | 4.27 | 142  | 180007   | 21.558  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 5.19 | 59   | 36419    | 93.895  | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 120353   | 20.900  | ug/l  | 96     |
| 13) Acrolein                  | 3.89 | 56   | 40475    | 100.375 | ug/l  | 96     |
| 14) Allyl chloride            | 4.67 | 41   | 180042   | 21.135  | ug/l  | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 113927   | 95.702  | ug/l  | 99     |
| 16) Acetone                   | 4.14 | 43   | 87196    | 93.697  | ug/l  | 99     |
| 17) Carbon Disulfide          | 4.38 | 76   | 364764   | 20.811  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.67 | 43   | 58103    | 20.417  | ug/l  | 97     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 162665   | 21.568  | ug/l  | 99     |
| 20) Methylene Chloride        | 4.91 | 84   | 130037   | 20.177  | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 127825   | 21.038  | ug/l  | 95     |
| 22) Diisopropyl ether         | 6.31 | 45   | 361627   | 21.048  | ug/l  | 97     |
| 23) Vinyl Acetate             | 6.26 | 43   | 1010850  | 101.311 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 216464   | 21.192  | ug/l  | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 140531   | 94.366  | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 148109   | 21.787  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 139964   | 21.369  | ug/l  | 100    |
| 28) Bromochloromethane        | 7.51 | 49   | 85847    | 20.109  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 7.53 | 42   | 91461    | 93.692  | ug/l  | 99     |
| 30) Chloroform                | 7.68 | 83   | 207834   | 20.771  | ug/l  | 97     |
| 31) Cyclohexane               | 7.95 | 56   | 226085   | 20.707  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 181409   | 21.522  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 176058   | 20.913  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.25 | 43   | 68182    | 19.460  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 165230   | 21.348  | ug/l  | 95     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Apr 15 14:44:16 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 243036   | 21.483  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 509757   | 21.325  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.49  | 41   | 41098    | 19.824  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 125772   | 20.731  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 136100   | 19.877  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 134427   | 21.402  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 124813   | 21.222  | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 60262    | 20.502  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.64  | 83   | 159297   | 20.903  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.43  | 41   | 66618    | 20.801  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 16865    | 361.662 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 327172   | 90.345  | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 321302   | 20.999  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 158851   | 20.488  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 195753   | 20.927  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 83499    | 20.049  | ug/l   | 93       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 110927   | 19.328  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 152883   | 20.885  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 291697   | 102.696 | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.97 | 43   | 215705   | 94.907  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 101511   | 20.428  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 81261    | 20.246  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.86 | 164  | 103036   | 21.347  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 331383   | 21.432  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 113931   | 21.319  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.73 | 91   | 615972   | 21.103  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 472380   | 42.645  | ug/l   | 98       |
| 69) o-Xylene                   | 12.16 | 106  | 221114   | 21.297  | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 373666   | 21.304  | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 53387    | 20.116  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.46 | 105  | 598708   | 21.603  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 123287   | 19.137  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 92271    | 19.871  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 57487m   | 18.071  | ug/l   |          |
| 77) Bromobenzene               | 12.74 | 156  | 123721   | 21.548  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.80 | 91   | 712212   | 21.310  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 392213   | 21.228  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 495819   | 21.247  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 33464    | 20.352  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 413754   | 21.196  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 430128   | 21.258  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 494445   | 21.318  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 614884   | 21.382  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.49 | 119  | 543183   | 21.169  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 246012   | 21.507  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 237806   | 20.955  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.82 | 91   | 534205   | 21.059  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.09 | 117  | 104503   | 21.183  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 215150   | 21.155  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 14556    | 19.361  | 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  | 142374   | 21.216 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.23 | 225  | 81691    | 21.100 | ug/l  | 98       |
| 95) Naphthalene            | 15.36 | 128  | 260800   | 20.202 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 117197   | 20.350 | ug/l  | 98       |

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

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