

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082820\  
 Data File : VW016395.D  
 Acq On : 28 Aug 2020 11:39  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 28 12:45:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082820S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 28 12:44:24 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 185996   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 277218   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 255457   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 122627   | 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   | 92211    | 50.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.68% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 87845    | 51.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.72% |          |
| 50) Toluene-d8              | 10.32 | 98   | 341054   | 51.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.02% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 127826   | 54.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.02% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 61415    | 48.555  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50   | 51183    | 38.006  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.37 | 62   | 78236    | 41.506  | ug/l   | 99     |
| 5) Bromomethane               | 2.79 | 94   | 54577    | 46.568  | ug/l   | 98     |
| 6) Chloroethane               | 2.92 | 64   | 45029    | 42.301  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 94850    | 62.157  | ug/l   | 92     |
| 8) Diethyl Ether              | 3.68 | 74   | 46373    | 48.427  | ug/l   | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101  | 96197    | 48.074  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.26 | 142  | 142482   | 49.281  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.22 | 59   | 29060    | 301.034 | ug/l # | 87     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 95000    | 46.653  | ug/l   | 97     |
| 13) Acrolein                  | 3.90 | 56   | 33375    | 239.341 | ug/l   | 95     |
| 14) Allyl chloride            | 4.67 | 41   | 117443   | 43.046  | ug/l   | 91     |
| 15) Acrylonitrile             | 5.37 | 53   | 92964    | 257.644 | ug/l   | 99     |
| 16) Acetone                   | 4.14 | 43   | 94924    | 273.184 | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.38 | 76   | 270894   | 45.307  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.67 | 43   | 39395    | 48.687  | ug/l   | 93     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 142078   | 56.664  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.92 | 84   | 99031    | 38.150  | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96   | 103736   | 46.781  | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.31 | 45   | 224668   | 43.680  | ug/l # | 94     |
| 23) Vinyl Acetate             | 6.26 | 43   | 735158   | 249.615 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 161153   | 44.891  | ug/l   | 99     |
| 25) 2-Butanone                | 7.18 | 43   | 119129   | 255.820 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 123527   | 53.269  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 111291   | 48.623  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.51 | 49   | 60854    | 44.680  | ug/l   | 87     |
| 29) Tetrahydrofuran           | 7.54 | 42   | 69514    | 249.723 | ug/l   | 90     |
| 30) Chloroform                | 7.68 | 83   | 179736   | 48.187  | ug/l   | 99     |
| 31) Cyclohexane               | 7.96 | 56   | 140675   | 42.498  | ug/l   | 93     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 164070   | 52.356  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75   | 144482   | 52.905  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43   | 50538    | 53.974  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 160727   | 58.975  | ug/l   | 94     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082820\  
 Data File : VW016395.D  
 Acq On : 28 Aug 2020 11:39  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 28 12:45:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082820S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 28 12:44:24 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 179257   | 54.492   | ug/l   | 94       |
| 40) Benzene                    | 8.32  | 78   | 379396   | 49.383   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 33048    | 61.843   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 117434   | 57.875   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 99961    | 56.745   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 112531   | 51.716   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 87021    | 48.050   | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 54257    | 57.065   | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.65  | 83   | 137250   | 55.872   | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.44  | 41   | 46810    | 57.161   | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 16386    | 1368.639 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 254295   | 285.420  | ug/l   | 98       |
| 52) Toluene                    | 10.39 | 92   | 255824   | 52.001   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 137150   | 60.298   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 155982   | 55.178   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 74227    | 54.408   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 95917    | 61.651   | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 127148   | 54.778   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 197493   | 278.421  | ug/l   | 96       |
| 59) 2-Hexanone                 | 10.97 | 43   | 181128   | 297.172  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 98506    | 60.696   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 74854    | 56.997   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.87 | 164  | 96227    | 57.409   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 278706   | 53.230   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 101784   | 55.614   | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.73 | 91   | 503942   | 53.553   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 383769   | 106.103  | ug/l   | 97       |
| 69) o-Xylene                   | 12.17 | 106  | 177622   | 55.122   | ug/l   | 96       |
| 70) Styrene                    | 12.18 | 104  | 305578   | 54.802   | ug/l   | 97       |
| 71) Bromoform                  | 12.35 | 173  | 54264    | 66.250   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 510225   | 54.601   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 93035    | 55.594   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 85022    | 54.375   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 112654   | 99.891   | ug/l # | 1        |
| 77) Bromobenzene               | 12.75 | 156  | 112435   | 54.399   | ug/l   | 95       |
| 78) n-propylbenzene            | 12.80 | 91   | 592746   | 53.142   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 348077   | 54.022   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 441484   | 55.037   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 29438    | 62.611   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 357084   | 53.235   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 374612   | 56.982   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 433309   | 54.588   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 525211   | 54.967   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 485719   | 56.203   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 226846   | 54.803   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 219500   | 53.853   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 449743   | 56.253   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 87700    | 54.377   | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 196114   | 54.344   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 16057    | 66.803   | ug/l   | 98       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082820\  
Data File : VW016395.D  
Acq On : 28 Aug 2020 11:39  
Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Quant Time: Aug 28 12:45:59 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082820S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 28 12:44:24 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 138490   | 64.354 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 81425    | 63.641 | ug/l  | 97       |
| 95) Naphthalene            | 15.37 | 128  | 279276   | 70.956 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 121345   | 65.659 | ug/l  | 99       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW082820\  
Data File : VW016395.D  
Acq On : 28 Aug 2020 11:39  
Operator : SY/VA  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Quant Time: Aug 28 12:45:59 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082820S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 28 12:44:24 2020  
Response via : Initial Calibration

