

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110918\  
 Data File : VW006800.D  
 Acq On : 09 Nov 2018 21:57  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

apatel  
 11/12/2018 3:41:31 PM

Quant Time: Nov 12 05:50:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110918S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 12 00:52:45 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 295959   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 400214   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 399520   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 229530   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 103960   | 47.93 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.86%  |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 111290   | 48.86 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.72%  |      |
| 50) Toluene-d8            | 10.33  | 98  | 469971   | 49.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.04%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 179671   | 51.46 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.92% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 117027 | 48.634  | ug/l | 97     |
| 3) Chloromethane              | 2.21 | 50  | 147719 | 51.135  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.35 | 62  | 155740 | 51.280  | ug/l | 99     |
| 5) Bromomethane               | 2.78 | 94  | 111160 | 53.474  | ug/l | 97     |
| 6) Chloroethane               | 2.92 | 64  | 99703  | 50.165  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 188519 | 49.403  | ug/l | 97     |
| 8) Diethyl Ether              | 3.69 | 74  | 57915  | 52.171  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 119028 | 46.945  | ug/l | 100    |
| 10) Methyl Iodide             | 4.28 | 142 | 196205 | 55.700  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.21 | 59  | 38173  | 267.391 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 107602 | 50.894  | ug/l | 99     |
| 13) Acrolein                  | 3.90 | 56  | 35884  | 241.346 | ug/l | 100    |
| 14) Allyl chloride            | 4.68 | 41  | 146361 | 51.354  | ug/l | 99     |
| 15) Acrylonitrile             | 5.38 | 53  | 121998 | 274.558 | ug/l | 99     |
| 16) Acetone                   | 4.15 | 43  | 82729  | 263.489 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.39 | 76  | 368856 | 52.889  | ug/l | 100    |
| 18) Methyl Acetate            | 4.68 | 43  | 54070  | 49.074  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 280229 | 54.115  | ug/l | 98     |
| 20) Methylene Chloride        | 4.93 | 84  | 138441 | 54.346  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 127435 | 50.391  | ug/l | 98     |
| 22) Diisopropyl ether         | 6.32 | 45  | 324311 | 53.995  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.26 | 43  | 938954 | 274.101 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.23 | 63  | 202400 | 51.513  | ug/l | 98     |
| 25) 2-Butanone                | 7.18 | 43  | 142083 | 274.076 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.18 | 77  | 177138 | 47.318  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 141104 | 52.073  | ug/l | 99     |
| 28) Bromochloromethane        | 7.52 | 49  | 73916  | 50.226  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 92694  | 272.808 | ug/l | 99     |
| 30) Chloroform                | 7.68 | 83  | 221490 | 50.875  | ug/l | 98     |
| 31) Cyclohexane               | 7.96 | 56  | 190653 | 47.115  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 204061 | 49.387  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 179697 | 49.481  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.26 | 43  | 66425  | 51.505  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 186191 | 47.986  | ug/l | 95     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110918\  
 Data File : VW006800.D  
 Acq On : 09 Nov 2018 21:57  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

apatel  
 11/12/2018 3:41:31 PM

Quant Time: Nov 12 05:50:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110918S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 12 00:52:45 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 232732   | 50.333   | ug/l   | 98       |
| 40) Benzene                    | 8.33  | 78   | 524221   | 51.119   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 36135    | 48.294   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 141984   | 50.865   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 128871   | 53.302   | ug/l   | 100      |
| 44) Trichloroethene            | 9.09  | 130  | 157306   | 49.891   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 123704   | 51.362   | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 69174    | 51.157   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 167820   | 51.146   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 61712    | 54.197   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 22841    | 1128.298 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 337679   | 271.849  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 378840   | 52.545   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 168900   | 53.086   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 196802   | 52.171   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 104006   | 52.212   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 125639   | 57.116   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 166847   | 52.394   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 284305   | 259.526  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 238043   | 282.772  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 126070   | 52.651   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 100529   | 52.454   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 156831   | 51.405   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 442924   | 52.084   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 141204   | 51.833   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.74 | 91   | 758423   | 53.014   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 618454   | 105.985  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 292600   | 54.466   | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 484273   | 55.460   | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 79405    | 52.619   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 788788   | 53.412   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 133152   | 55.315   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 117388   | 53.354   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 71622m   | 42.789   | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 202437   | 53.014   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.81 | 91   | 927949   | 52.882   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 524011   | 53.010   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 681930   | 53.294   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 33233    | 52.789   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 557529   | 52.772   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 590213   | 53.382   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 704656   | 53.750   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 837319   | 52.914   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 776998   | 53.831   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 406184   | 52.358   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 400573   | 51.843   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 701273   | 52.641   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 122296   | 54.007   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 361517   | 53.269   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 18878    | 53.137   | ug/l   | 97       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110918\  
Data File : VW006800.D  
Acq On : 09 Nov 2018 21:57  
Operator : SY/AP  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

apatel  
11/12/2018 3:41:31 PM

Quant Time: Nov 12 05:50:59 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W110918S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 12 00:52:45 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 274108   | 54.559 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 161288   | 51.011 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 448183   | 58.302 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 237466   | 54.641 | ug/l  | 100      |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110918\  
Data File : VW006800.D  
Acq On : 09 Nov 2018 21:57  
Operator : SY/AP  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

apatel  
11/12/2018 3:41:31 PM

Quant Time: Nov 12 05:50:59 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W110918S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 12 00:52:45 2018  
Response via : Initial Calibration

