

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091018\  
 Data File : VW005242.D  
 Acq On : 10 Sep 2018 15:23  
 Operator : SY/AP  
 Sample : VSTDICCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

apatel  
 9/11/2018 11:09:25 AM

Quant Time: Sep 11 03:39:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 02:46:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 533244   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 757579   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 731690   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 398175   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 193896   | 48.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.50%  |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 201405   | 50.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.50% |      |
| 50) Toluene-d8            | 10.33  | 98  | 1050696  | 52.40 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.80% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 375817   | 51.24 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.48% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 203846  | 44.32  | ug/l | 100    |
| 3) Chloromethane              | 2.21 | 50  | 283033  | 46.02  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.36 | 62  | 262570  | 46.51  | ug/l | 100    |
| 5) Bromomethane               | 2.76 | 94  | 170785  | 44.46  | ug/l | 100    |
| 6) Chloroethane               | 2.92 | 64  | 145797  | 46.88  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 286526  | 44.86  | ug/l | 100    |
| 8) Diethyl Ether              | 3.69 | 74  | 103640  | 45.53  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101 | 207581  | 45.50  | ug/l | 100    |
| 10) Methyl Iodide             | 4.28 | 142 | 275452  | 54.83  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.17 | 59  | 73101   | 224.12 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 194131  | 46.22  | ug/l | 100    |
| 13) Acrolein                  | 3.90 | 56  | 71485   | 226.89 | ug/l | 100    |
| 14) Allyl chloride            | 4.68 | 41  | 299975  | 46.48  | ug/l | 100    |
| 15) Acrylonitrile             | 5.37 | 53  | 243479  | 237.10 | ug/l | 100    |
| 16) Acetone                   | 4.13 | 43  | 170929  | 231.53 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.39 | 76  | 694393  | 47.10  | ug/l | 100    |
| 18) Methyl Acetate            | 4.68 | 43  | 101224  | 45.93  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 473231  | 47.30  | ug/l | 100    |
| 20) Methylene Chloride        | 4.92 | 84  | 266207  | 42.54  | ug/l | 100    |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 222404  | 45.35  | ug/l | 100    |
| 22) Diisopropyl ether         | 6.32 | 45  | 630545  | 48.53  | ug/l | 100    |
| 23) Vinyl Acetate             | 6.26 | 43  | 1739408 | 240.21 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.23 | 63  | 362668  | 45.34  | ug/l | 100    |
| 25) 2-Butanone                | 7.18 | 43  | 271234  | 232.92 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.18 | 77  | 322323  | 46.48  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.18 | 96  | 242152  | 46.13  | ug/l | 100    |
| 28) Bromochloromethane        | 7.52 | 49  | 139996  | 47.45  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.54 | 42  | 186814  | 238.06 | ug/l | 100    |
| 30) Chloroform                | 7.68 | 83  | 372653  | 46.43  | ug/l | 100    |
| 31) Cyclohexane               | 7.96 | 56  | 406980  | 47.82  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 347145  | 47.87  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 338021  | 48.70  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.26 | 43  | 121658  | 46.08  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 311686  | 47.94  | ug/l | 100    |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 02:46:28 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 459333   | 49.84   | ug/l   | 100      |
| 40) Benzene                    | 8.33  | 78   | 1018207  | 49.79   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 69304    | 51.17   | ug/l   | 100      |
| 42) 1,2-Dichloroethane         | 8.41  | 62   | 227149   | 46.43   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 237991   | 48.55   | ug/l   | 100      |
| 44) Trichloroethene            | 9.10  | 130  | 274850   | 49.00   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 241918   | 49.22   | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 111506   | 46.35   | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.65  | 83   | 283982   | 48.25   | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.44  | 41   | 130372   | 51.22   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.45  | 88   | 46946    | 1045.16 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 686031   | 248.67  | ug/l   | 100      |
| 52) Toluene                    | 10.40 | 92   | 731316   | 49.21   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 310818   | 48.87   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 371827   | 48.82   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 181522   | 47.32   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 10.65 | 69   | 246891   | 50.77   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 304734   | 47.84   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 513191   | 242.79  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 497399   | 250.09  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 206208   | 48.45   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 169534   | 48.19   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 270595   | 49.85   | ug/l   | 100      |
| 65) Chlorobenzene              | 11.66 | 112  | 796727   | 49.71   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 237180   | 49.56   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.74 | 91   | 1421747  | 50.93   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 1136905  | 101.07  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 538410   | 51.45   | ug/l   | 100      |
| 70) Styrene                    | 12.19 | 104  | 886652   | 51.92   | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 129400   | 49.87   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 1462632  | 51.99   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 275911   | 51.55   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 212634   | 50.29   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 146206m  | 28.27   | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 330925   | 49.93   | ug/l   | 100      |
| 78) n-propylbenzene            | 12.81 | 91   | 1707676  | 50.54   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 982971   | 50.73   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 1221848  | 51.00   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 67063    | 51.35   | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 1025995  | 50.38   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 1060516  | 50.62   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 1209834  | 50.26   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 1530995  | 50.85   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 1372433  | 51.49   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 694291   | 49.89   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 664725   | 48.63   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.83 | 91   | 1285002  | 51.28   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 213889   | 50.08   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 600267   | 49.07   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 35616    | 50.66   | ug/l   | 100      |

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ALS Vial : 7 Sample Multiplier: 1

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VSTDICCC050

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Quant Title : SW846 8260  
QLast Update : Tue Sep 11 02:46:28 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 431159   | 49.83 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 277884   | 50.15 | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 726632   | 51.79 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 376250   | 50.53 | ug/l  | 100      |

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

