

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090818\  
 Data File : VW005231.D  
 Acq On : 08 Sep 2018 01:53  
 Operator : SY/AP  
 Sample : VSTDICC100  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

apatel  
 9/10/2018 10:42:31 AM

Quant Time: Sep 08 03:48:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090818S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 08 02:41:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 485754   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 716010   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 709034   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 378542   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 382216   | 94.90  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 189.80% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 388528   | 94.49  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 188.98% |      |
| 50) Toluene-d8            | 10.33  | 98  | 1932815  | 101.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 202.58% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 707130   | 104.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 209.02% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 381029  | 97.64  | ug/l | 99     |
| 3) Chloromethane              | 2.22 | 50  | 567846  | 101.47 | ug/l | 99     |
| 4) Vinyl Chloride             | 2.36 | 62  | 513735  | 94.96  | ug/l | 99     |
| 5) Bromomethane               | 2.75 | 94  | 322250  | 86.56  | ug/l | 97     |
| 6) Chloroethane               | 2.91 | 64  | 299248  | 89.95  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 539921  | 88.82  | ug/l | 99     |
| 8) Diethyl Ether              | 3.69 | 74  | 224419  | 101.32 | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 375764  | 89.67  | ug/l | 99     |
| 10) Methyl Iodide             | 4.28 | 142 | 580845  | 109.06 | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.17 | 59  | 164527  | 561.50 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 377417  | 97.84  | ug/l | 99     |
| 13) Acrolein                  | 3.90 | 56  | 156744  | 588.81 | ug/l | 99     |
| 14) Allyl chloride            | 4.68 | 41  | 619860  | 102.93 | ug/l | 99     |
| 15) Acrylonitrile             | 5.37 | 53  | 547853  | 576.50 | ug/l | 99     |
| 16) Acetone                   | 4.13 | 43  | 364908  | 463.45 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.38 | 76  | 1440618 | 106.73 | ug/l | 99     |
| 18) Methyl Acetate            | 4.68 | 43  | 247633  | 105.52 | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 997878  | 105.63 | ug/l | 99     |
| 20) Methylene Chloride        | 4.92 | 84  | 525544  | 79.81  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 457146  | 97.35  | ug/l | 98     |
| 22) Diisopropyl ether         | 6.32 | 45  | 1346392 | 106.06 | ug/l | 98     |
| 23) Vinyl Acetate             | 6.26 | 43  | 3641895 | 543.01 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.23 | 63  | 767233  | 97.03  | ug/l | 100    |
| 25) 2-Butanone                | 7.18 | 43  | 602937  | 445.59 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 7.18 | 77  | 542675  | 84.09  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.18 | 96  | 506154  | 98.72  | ug/l | 99     |
| 28) Bromochloromethane        | 7.52 | 49  | 285721  | 89.94  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 423807  | 591.03 | ug/l | 100    |
| 30) Chloroform                | 7.68 | 83  | 767943  | 95.17  | ug/l | 100    |
| 31) Cyclohexane               | 7.96 | 56  | 734590  | 93.99  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 635102  | 90.29  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 633597  | 94.70  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 264457  | 104.05 | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 562313  | 88.70  | ug/l | 96     |

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Quant Time: Sep 08 03:48:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090818S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 08 02:41:16 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 873258   | 107.41  | ug/l   | 99       |
| 40) Benzene                    | 8.33  | 78   | 2037742  | 99.38   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 154511   | 106.10  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.41  | 62   | 473289   | 94.44   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 527294   | 113.63  | ug/l   | 99       |
| 44) Trichloroethene            | 9.10  | 130  | 524070   | 94.91   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 476730   | 95.46   | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 230534   | 96.51   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 555746   | 92.56   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 292360   | 128.82  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 93917    | 2392.92 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 1513865  | 503.95  | ug/l   | 100      |
| 52) Toluene                    | 10.40 | 92   | 1439781  | 103.61  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 627797   | 105.57  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 719341   | 100.06  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 368307   | 99.07   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 538143   | 124.57  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 628362   | 102.22  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 1099856  | 546.36  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 1079421  | 528.89  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 426356   | 101.41  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 351218   | 104.00  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 551936   | 99.67   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 1587638  | 100.79  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 480001   | 99.85   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 2811642  | 105.92  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 2222473  | 209.35  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 1049540  | 106.51  | ug/l   | 99       |
| 70) Styrene                    | 12.19 | 104  | 1769617  | 109.05  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 275496   | 107.15  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 2800809  | 106.50  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 602156   | 128.93  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 449441   | 110.07  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 311235m  | 108.60  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 671800   | 103.43  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.81 | 91   | 3359146  | 106.09  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 1927820  | 104.11  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 2439085  | 107.76  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 134019   | 113.72  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 13.00 | 91   | 2010542  | 102.76  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 2046877  | 107.32  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 2479116  | 107.55  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 2963590  | 106.32  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 2694983  | 109.30  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 1366989  | 102.66  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 1342433  | 101.47  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.83 | 91   | 2536735  | 111.22  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 433236   | 105.23  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 1225063  | 105.13  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 77885    | 120.53  | ug/l   | 99       |

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VSTDICC100

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Quant Title : SW846 8260  
QLast Update : Sat Sep 08 02:41:16 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 894119   | 114.90 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 523083   | 107.43 | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 1644168  | 133.24 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 784059   | 117.26 | ug/l  | 99       |

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

