

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081518\  
 Data File : VD059786.D  
 Acq On : 15 Aug 2018 1:47  
 Operator : VA/AP  
 Sample : VSTDICC100  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

apatel  
 8/15/2018 4:19:55 PM

Quant Time: Aug 15 11:54:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 15 08:11:18 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 278293   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.69  | 114  | 386851   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.69 | 117  | 312397   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.91 | 152  | 169798   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.02   | 65  | 361223   | 85.34 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 170.68% |      |
| 35) Dibromofluoromethane    | 5.54   | 113 | 332865   | 85.91 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 171.82% |      |
| 50) Toluene-d8              | 8.70   | 98  | 779821   | 98.43 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 196.86% |      |
| 62) 4-Bromofluorobenzene    | 11.93  | 95  | 328921   | 85.00 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 170.00% |      |

|                               |      |     |         |        |      |     |
|-------------------------------|------|-----|---------|--------|------|-----|
| Target Compounds              |      |     |         | Qvalue |      |     |
| 2) Dichlorodifluoromethane    | 1.33 | 85  | 330614  | 82.45  | ug/l | 99  |
| 3) Chloromethane              | 1.48 | 50  | 192881  | 119.87 | ug/l | 98  |
| 4) Vinyl Chloride             | 1.55 | 62  | 217622  | 110.05 | ug/l | 97  |
| 5) Bromomethane               | 1.78 | 94  | 45746   | 56.07  | ug/l | 94  |
| 6) Chloroethane               | 1.87 | 64  | 65235   | 66.41  | ug/l | 97  |
| 7) Trichlorofluoromethane     | 2.07 | 101 | 282542  | 69.38  | ug/l | 100 |
| 8) Diethyl Ether              | 2.34 | 74  | 64463   | 97.11  | ug/l | 94  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.54 | 101 | 170527  | 80.86  | ug/l | 96  |
| 10) Methyl Iodide             | 2.68 | 142 | 219817  | 96.43  | ug/l | 96  |
| 11) Tert butyl alcohol        | 3.26 | 59  | 62552m  | 423.75 | ug/l |     |
| 12) 1,1-Dichloroethene        | 2.53 | 96  | 130184  | 86.00  | ug/l | 93  |
| 13) Acrolein                  | 2.47 | 56  | 61889   | 644.68 | ug/l | 87  |
| 14) Allyl chloride            | 2.92 | 41  | 328983  | 97.15  | ug/l | 93  |
| 15) Acrylonitrile             | 3.35 | 53  | 232162  | 609.71 | ug/l | 95  |
| 16) Acetone                   | 2.60 | 43  | 317220  | 474.87 | ug/l | 96  |
| 17) Carbon Disulfide          | 2.75 | 76  | 475395  | 94.38  | ug/l | 98  |
| 18) Methyl Acetate            | 2.93 | 43  | 119138  | 87.62  | ug/l | 99  |
| 19) Methyl tert-butyl Ether   | 3.40 | 73  | 590121  | 97.17  | ug/l | 100 |
| 20) Methylene Chloride        | 3.07 | 84  | 150735  | 76.03  | ug/l | 95  |
| 21) trans-1,2-Dichloroethene  | 3.38 | 96  | 239363  | 115.17 | ug/l | 99  |
| 22) Diisopropyl ether         | 4.07 | 45  | 851790  | 124.14 | ug/l | 99  |
| 23) Vinyl Acetate             | 4.01 | 43  | 2452871 | 548.61 | ug/l | 98  |
| 24) 1,1-Dichloroethane        | 3.97 | 63  | 504049  | 103.64 | ug/l | 100 |
| 25) 2-Butanone                | 4.84 | 43  | 495443  | 640.38 | ug/l | 100 |
| 26) 2,2-Dichloropropane       | 4.80 | 77  | 450309  | 82.38  | ug/l | 97  |
| 27) cis-1,2-Dichloroethene    | 4.80 | 96  | 264185  | 107.52 | ug/l | 96  |
| 28) Bromochloromethane        | 5.14 | 49  | 201826  | 113.94 | ug/l | 95  |
| 29) Tetrahydrofuran           | 5.18 | 42  | 202013  | 684.81 | ug/l | 98  |
| 30) Chloroform                | 5.32 | 83  | 590414  | 93.63  | ug/l | 97  |
| 31) Cyclohexane               | 5.58 | 56  | 339227  | 116.64 | ug/l | 97  |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 535378  | 84.03  | ug/l | 99  |
| 36) 1,1-Dichloropropene       | 5.74 | 75  | 366561  | 84.06  | ug/l | 96  |
| 37) Ethyl Acetate             | 4.92 | 43  | 206764  | 106.63 | ug/l | 98  |
| 38) Carbon Tetrachloride      | 5.72 | 117 | 457565  | 69.02  | ug/l | 99  |

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 Operator : VA/AP  
 Sample : VSTDICC100  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDICC100

Manual Integrations  
 APPROVED

apatel  
 8/15/2018 4:19:55 PM

Quant Time: Aug 15 11:54:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 15 08:11:18 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.28  | 83   | 335847   | 100.53  | ug/l   | 94       |
| 40) Benzene                    | 6.01  | 78   | 796216   | 100.76  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.12  | 41   | 107472   | 113.85  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.12  | 62   | 456703   | 78.33   | ug/l   | 97       |
| 43) Isopropyl Acetate          | 7.61  | 43   | 270911   | 110.01  | ug/l # | 94       |
| 44) Trichloroethene            | 6.97  | 130  | 276965   | 90.27   | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 7.34  | 63   | 225133   | 110.46  | ug/l   | 99       |
| 46) Dibromomethane             | 7.45  | 93   | 183071   | 90.02   | ug/l   | 90       |
| 47) Bromodichloromethane       | 7.74  | 83   | 438282   | 82.30   | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.50  | 41   | 178005   | 100.74  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.49  | 88   | 34131    | 2712.52 | ug/l   | 87       |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 1035785  | 546.71  | ug/l   | 98       |
| 52) Toluene                    | 8.80  | 92   | 513674   | 100.94  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 9.18  | 75   | 370025   | 86.08   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 8.36  | 75   | 404255   | 94.64   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.45  | 97   | 187406   | 94.92   | ug/l   | 94       |
| 56) Ethyl methacrylate         | 9.31  | 69   | 228404   | 101.51  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.67  | 76   | 299685   | 92.76   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.19  | 63   | 505783   | 489.57  | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.78  | 43   | 777421   | 557.37  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.96  | 129  | 302600   | 83.26   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 10.09 | 107  | 220621   | 91.79   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.51  | 164  | 269513   | 90.24   | ug/l   | 96       |
| 65) Chlorobenzene              | 10.72 | 112  | 607541   | 96.10   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.85 | 131  | 245265   | 79.46   | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.86 | 91   | 1008522  | 86.32   | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.01 | 106  | 721033   | 188.42  | ug/l   | 90       |
| 69) o-Xylene                   | 11.41 | 106  | 343852   | 93.00   | ug/l   | 86       |
| 70) Styrene                    | 11.43 | 104  | 596843   | 97.40   | ug/l   | 97       |
| 71) Bromoform                  | 11.59 | 173  | 210017   | 91.09   | ug/l # | 95       |
| 73) Isopropylbenzene           | 11.77 | 105  | 1053421  | 92.31   | ug/l   | 100      |
| 74) N-amyl acetate             | 11.64 | 43   | 360908   | 109.58  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.08 | 83   | 214185   | 101.34  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.12 | 75   | 239254   | 97.64   | ug/l   | 98       |
| 77) Bromobenzene               | 12.04 | 156  | 292531   | 87.71   | ug/l   | 80       |
| 78) n-propylbenzene            | 12.15 | 91   | 1231596  | 88.53   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.21 | 91   | 777506   | 88.49   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.32 | 105  | 789007   | 80.58   | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-buten | 11.84 | 75   | 66453    | 117.15  | ug/l   | 90       |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 789736   | 77.10   | ug/l   | 96       |
| 83) tert-Butylbenzene          | 12.58 | 119  | 917296   | 85.84   | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene     | 12.63 | 105  | 883789   | 87.35   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 12.76 | 105  | 1062482  | 92.60   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.88 | 119  | 881589   | 85.99   | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene        | 12.84 | 146  | 531039   | 94.12   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.92 | 146  | 518623   | 91.19   | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.20 | 91   | 821906   | 80.34   | ug/l   | 97       |
| 90) Hexachloroethane           | 13.39 | 117  | 244107   | 92.76   | ug/l   | 76       |
| 91) 1,2-Dichlorobenzene        | 13.19 | 146  | 403871   | 83.57   | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 43031    | 85.96   | ug/l   | 83       |

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Sample : VSTDICC100  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC100

Manual Integrations  
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apatel  
8/15/2018 4:19:55 PM

Quant Time: Aug 15 11:54:30 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 15 08:11:18 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.34 | 180  | 369392   | 82.27 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.44 | 225  | 266363   | 72.42 | ug/l  | 98       |
| 95) Naphthalene            | 14.52 | 128  | 591307   | 96.51 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.66 | 180  | 332982   | 86.85 | ug/l  | 99       |

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

