

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082118\  
 Data File : VD059848.D  
 Acq On : 21 Aug 2018 11:15  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

apatel  
 8/22/2018 12:42:33 PM

Quant Time: Aug 22 01:16:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 21 04:40:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.60  | 168  | 1182747  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.65  | 114  | 1650655  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.66 | 117  | 1329994  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.89 | 152  | 616311   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.97   | 65  | 471128   | 49.77 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.54%  |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 651508   | 53.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.72% |      |
| 50) Toluene-d8            | 8.67   | 98  | 1715322  | 52.10 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.20% |      |
| 62) 4-Bromofluorobenzene  | 11.91  | 95  | 656325   | 51.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.90% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.33 | 85  | 489879  | 48.09  | ug/l | 99     |
| 3) Chloromethane              | 1.47 | 50  | 387513  | 44.90  | ug/l | 97     |
| 4) Vinyl Chloride             | 1.54 | 62  | 332061  | 48.01  | ug/l | 99     |
| 5) Bromomethane               | 1.77 | 94  | 53894   | 59.30  | ug/l | 87     |
| 6) Chloroethane               | 1.86 | 64  | 90071   | 57.56  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 2.07 | 101 | 360458  | 51.77  | ug/l | 99     |
| 8) Diethyl Ether              | 2.32 | 74  | 75289   | 48.38  | ug/l | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.53 | 101 | 232538  | 52.51  | ug/l | 97     |
| 10) Methyl Iodide             | 2.67 | 142 | 241423  | 47.33  | ug/l | 94     |
| 11) Tert butyl alcohol        | 3.22 | 59  | 91030   | 260.15 | ug/l | 95     |
| 12) 1,1-Dichloroethene        | 2.52 | 96  | 177882  | 57.63  | ug/l | 91     |
| 13) Acrolein                  | 2.44 | 56  | 90275   | 251.90 | ug/l | 98     |
| 14) Allyl chloride            | 2.89 | 41  | 443153  | 47.86  | ug/l | 100    |
| 15) Acrylonitrile             | 3.33 | 53  | 386513  | 238.65 | ug/l | 97     |
| 16) Acetone                   | 2.58 | 43  | 436896  | 275.38 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.73 | 76  | 610071  | 52.14  | ug/l | 100    |
| 18) Methyl Acetate            | 2.90 | 43  | 157015  | 48.91  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.37 | 73  | 958425  | 46.83  | ug/l | 97     |
| 20) Methylene Chloride        | 3.03 | 84  | 192052  | 48.26  | ug/l | 92     |
| 21) trans-1,2-Dichloroethene  | 3.35 | 96  | 484141  | 49.75  | ug/l | 98     |
| 22) Diisopropyl ether         | 4.03 | 45  | 2262444 | 47.83  | ug/l | 100    |
| 23) Vinyl Acetate             | 3.98 | 43  | 6162135 | 242.51 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.93 | 63  | 1000142 | 48.08  | ug/l | 99     |
| 25) 2-Butanone                | 4.79 | 43  | 1277318 | 266.35 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.75 | 77  | 776064  | 47.55  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.76 | 96  | 617786  | 49.90  | ug/l | 99     |
| 28) Bromochloromethane        | 5.10 | 49  | 531603  | 50.43  | ug/l | 100    |
| 29) Tetrahydrofuran           | 5.14 | 42  | 573168  | 236.05 | ug/l | 98     |
| 30) Chloroform                | 5.28 | 83  | 995140  | 48.48  | ug/l | 99     |
| 31) Cyclohexane               | 5.55 | 56  | 864889  | 50.10  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97  | 851885  | 49.25  | ug/l | 97     |
| 36) 1,1-Dichloropropene       | 5.71 | 75  | 722337  | 51.60  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.88 | 43  | 524163  | 50.51  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.68 | 117 | 700513  | 50.14  | ug/l | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082118\  
 Data File : VD059848.D  
 Acq On : 21 Aug 2018 11:15  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

apatel  
 8/22/2018 12:42:33 PM

Quant Time: Aug 22 01:16:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 21 04:40:12 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| -----                          |       |      |          |         |       |          |
| 39) Methylcyclohexane          | 7.24  | 83   | 782675   | 52.27   | ug/l  | 98       |
| 40) Benzene                    | 5.97  | 78   | 1860562  | 51.30   | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.08  | 41   | 257673   | 48.47   | ug/l  | 97       |
| 42) 1,2-Dichloroethane         | 6.09  | 62   | 582705   | 49.34   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 7.58  | 43   | 701061   | 48.84   | ug/l  | 100      |
| 44) Trichloroethene            | 6.94  | 130  | 564749   | 52.36   | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.31  | 63   | 507002   | 47.61   | ug/l  | 99       |
| 46) Dibromomethane             | 7.42  | 93   | 331841   | 50.04   | ug/l  | 97       |
| 47) Bromodichloromethane       | 7.71  | 83   | 722393   | 49.34   | ug/l  | 100      |
| 48) Methyl methacrylate        | 7.47  | 41   | 386762   | 48.86   | ug/l  | 97       |
| 49) 1,4-Dioxane                | 7.45  | 88   | 73037    | 1090.24 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.56  | 43   | 2581972  | 269.07  | ug/l  | 100      |
| 52) Toluene                    | 8.77  | 92   | 1174762  | 51.22   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 9.15  | 75   | 677513   | 50.80   | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.33  | 75   | 803311   | 50.30   | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.42  | 97   | 406765   | 49.13   | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.28  | 69   | 452436   | 47.39   | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 9.63  | 76   | 604311   | 49.92   | ug/l  | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.15  | 63   | 1224917  | 232.55  | ug/l  | 98       |
| 59) 2-Hexanone                 | 9.75  | 43   | 1951997  | 275.20  | ug/l  | 98       |
| 60) Dibromochloromethane       | 9.92  | 129  | 523207   | 49.08   | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 10.06 | 107  | 443515   | 50.14   | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.48  | 164  | 508534   | 52.22   | ug/l  | 97       |
| 65) Chlorobenzene              | 10.70 | 112  | 1267331  | 49.41   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.82 | 131  | 443268   | 50.63   | ug/l  | 97       |
| 67) Ethyl Benzene              | 10.83 | 91   | 2064505  | 49.23   | ug/l  | 98       |
| 68) m/p-Xylenes                | 10.98 | 106  | 1478560  | 95.05   | ug/l  | 100      |
| 69) o-Xylene                   | 11.38 | 106  | 753507   | 50.70   | ug/l  | 100      |
| 70) Styrene                    | 11.41 | 104  | 1284047  | 49.61   | ug/l  | 98       |
| 71) Bromoform                  | 11.57 | 173  | 396983   | 50.46   | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.75 | 105  | 2082325  | 49.58   | ug/l  | 99       |
| 74) N-amyl acetate             | 11.62 | 43   | 853348   | 45.37   | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.06 | 83   | 466242   | 47.10   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 12.09 | 75   | 469834   | 46.08   | ug/l  | 99       |
| 77) Bromobenzene               | 12.02 | 156  | 586406   | 50.23   | ug/l  | 91       |
| 78) n-propylbenzene            | 12.14 | 91   | 2487820  | 47.69   | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 12.19 | 91   | 1480770  | 49.30   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.29 | 105  | 1485550  | 48.06   | ug/l  | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.82 | 75   | 152991   | 48.00   | ug/l  | 91       |
| 82) 4-Chlorotoluene            | 12.30 | 91   | 1441768  | 47.62   | ug/l  | 97       |
| 83) tert-Butylbenzene          | 12.56 | 119  | 1602099m | 48.36   | ug/l  |          |
| 84) 1,2,4-Trimethylbenzene     | 12.61 | 105  | 1716527  | 49.67   | ug/l  | 99       |
| 85) sec-Butylbenzene           | 12.74 | 105  | 2145969  | 48.84   | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.86 | 119  | 1688265  | 48.98   | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.82 | 146  | 1023843  | 52.10   | ug/l  | 97       |
| 88) 1,4-Dichlorobenzene        | 12.90 | 146  | 987569   | 50.70   | ug/l  | 96       |
| 89) n-Butylbenzene             | 13.18 | 91   | 1603436  | 50.04   | ug/l  | 98       |
| 90) Hexachloroethane           | 13.37 | 117  | 478268   | 48.63   | ug/l  | 72       |
| 91) 1,2-Dichlorobenzene        | 13.17 | 146  | 744394   | 50.14   | ug/l  | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.75 | 75   | 66746    | 45.29   | ug/l  | 69       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082118\  
Data File : VD059848.D  
Acq On : 21 Aug 2018 11:15  
Operator : JC/SY  
Sample : VSTDCCC050  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

apatel  
8/22/2018 12:42:33 PM

Quant Time: Aug 22 01:16:27 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 21 04:40:12 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.32 | 180  | 695661   | 49.30 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.42 | 225  | 479972   | 50.56 | ug/l  | 98       |
| 95) Naphthalene            | 14.50 | 128  | 1101845  | 47.80 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.64 | 180  | 600475   | 48.56 | ug/l  | 99       |

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

