

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121118\  
 Data File : VD060526.D  
 Acq On : 11 Dec 2018 10:23  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 12/12/2018 1:29:52 PM

Quant Time: Dec 12 03:16:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 06 01:49:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.41  | 168  | 1646033  | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 7.44  | 114  | 2291966  | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 11.28 | 117  | 1855276  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 913547   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|------------|--------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.78  | 65   | 555147     | 47.58  | ug/l  | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery = | 95.16% |       |          |
| 35) Dibromofluoromethane    | 6.32  | 113  | 797373     | 47.36  | ug/l  | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery = | 94.72% |       |          |
| 50) Toluene-d8              | 9.45  | 98   | 2354298    | 48.33  | ug/l  | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery = | 96.66% |       |          |
| 62) 4-Bromofluorobenzene    | 12.42 | 95   | 828513     | 47.53  | ug/l  | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery = | 95.06% |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.61 | 85   | 786608   | 50.292  | ug/l  | 95     |
| 3) Chloromethane              | 1.77 | 50   | 770626   | 45.567  | ug/l  | 96     |
| 4) Vinyl Chloride             | 1.87 | 62   | 673100   | 49.868  | ug/l  | 99     |
| 5) Bromomethane               | 2.17 | 94   | 163483   | 48.415  | ug/l  | 99     |
| 6) Chloroethane               | 2.28 | 64   | 199624   | 44.649  | ug/l  | 95     |
| 7) Trichlorofluoromethane     | 2.52 | 101  | 771844   | 49.525  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.84 | 74   | 130237   | 48.380  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.10 | 101  | 490334   | 48.489  | ug/l  | 99     |
| 10) Methyl Iodide             | 3.26 | 142  | 562919   | 47.623  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 3.98 | 59   | 129135   | 272.438 | ug/l  | 96     |
| 12) 1,1-Dichloroethene        | 3.08 | 96   | 389854   | 47.385  | ug/l  | 99     |
| 13) Acrolein                  | 2.99 | 56   | 158146   | 305.344 | ug/l  | 92     |
| 14) Allyl chloride            | 3.55 | 41   | 773572   | 49.557  | ug/l  | 99     |
| 15) Acrylonitrile             | 4.10 | 53   | 694826   | 258.166 | ug/l  | 97     |
| 16) Acetone                   | 3.17 | 43   | 551355   | 294.822 | ug/l  | 99     |
| 17) Carbon Disulfide          | 3.33 | 76   | 1294570  | 48.441  | ug/l  | 98     |
| 18) Methyl Acetate            | 3.56 | 43   | 205757   | 46.293  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 4.14 | 73   | 1160220  | 50.851  | ug/l  | 98     |
| 20) Methylene Chloride        | 3.73 | 84   | 868053   | 50.606  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 4.11 | 96   | 896668   | 50.103  | ug/l  | 96     |
| 22) Diisopropyl ether         | 4.86 | 45   | 2933623  | 52.344  | ug/l  | 98     |
| 23) Vinyl Acetate             | 4.81 | 43   | 7281533  | 262.227 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 4.77 | 63   | 1487910  | 51.103  | ug/l  | 100    |
| 25) 2-Butanone                | 5.62 | 43   | 1074200  | 291.957 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 5.59 | 77   | 1189599  | 52.889  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 5.60 | 96   | 928365   | 51.018  | ug/l  | 99     |
| 28) Bromochloromethane        | 5.93 | 49   | 685156   | 53.121  | ug/l  | 96     |
| 29) Tetrahydrofuran           | 5.96 | 42   | 534021   | 256.308 | ug/l  | 100    |
| 30) Chloroform                | 6.10 | 83   | 1478704  | 50.411  | ug/l  | 99     |
| 31) Cyclohexane               | 6.37 | 56   | 1372599  | 55.556  | ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 6.29 | 97   | 1252975  | 51.960  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 6.53 | 75   | 1152778  | 51.455  | ug/l  | 99     |
| 37) Ethyl Acetate             | 5.70 | 43   | 513955   | 52.897  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 6.50 | 117  | 1056356  | 52.521  | ug/l  | 98     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
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 12/12/2018 1:29:52 PM

Quant Time: Dec 12 03:16:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 06 01:49:20 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 8.04  | 83   | 1361316  | 53.302   | ug/l   | 99       |
| 40) Benzene                    | 6.79  | 78   | 2985565  | 52.144   | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.94  | 41   | 281838m  | 53.810   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 6.89  | 62   | 753571   | 51.764   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.35  | 43   | 656663   | 54.750   | ug/l # | 99       |
| 44) Trichloroethene            | 7.74  | 130  | 900202   | 52.609   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 8.10  | 63   | 742000   | 52.398   | ug/l   | 98       |
| 46) Dibromomethane             | 8.21  | 93   | 424448   | 51.877   | ug/l   | 92       |
| 47) Bromodichloromethane       | 8.49  | 83   | 1016826  | 52.378   | ug/l   | 99       |
| 48) Methyl methacrylate        | 8.24  | 41   | 381458   | 53.752   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 8.23  | 88   | 74367    | 1156.220 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 9.34  | 43   | 2068479  | 277.252  | ug/l   | 99       |
| 52) Toluene                    | 9.55  | 92   | 1894155  | 52.929   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.91  | 75   | 849974   | 53.284   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.11  | 75   | 1131397  | 53.984   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.18 | 97   | 502468   | 50.419   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 10.03 | 69   | 494020   | 54.773   | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.38 | 76   | 799303   | 51.883   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.92  | 63   | 1409877  | 261.248  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.48 | 43   | 1556630  | 298.501  | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.64 | 129  | 676569   | 54.299   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.76 | 107  | 541053   | 53.273   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.25 | 164  | 826397   | 50.304   | ug/l   | 99       |
| 65) Chlorobenzene              | 11.31 | 112  | 1954817  | 49.805   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.42 | 131  | 641012   | 50.670   | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.43 | 91   | 3307851  | 49.409   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.57 | 106  | 2507058  | 101.223  | ug/l   | 97       |
| 69) o-Xylene                   | 11.93 | 106  | 1172842  | 49.689   | ug/l   | 92       |
| 70) Styrene                    | 11.95 | 104  | 1916449  | 50.583   | ug/l   | 97       |
| 71) Bromoform                  | 12.12 | 173  | 436674   | 51.738   | ug/l   | 98       |
| 73) Isopropylbenzene           | 12.27 | 105  | 3323046  | 51.404   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.13 | 43   | 828992   | 53.060   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.56 | 83   | 525717   | 50.797   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.60 | 75   | 543865   | 52.542   | ug/l   | 99       |
| 77) Bromobenzene               | 12.54 | 156  | 869859   | 51.191   | ug/l   | 92       |
| 78) n-propylbenzene            | 12.64 | 91   | 4199907  | 51.395   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.71 | 91   | 2262203  | 51.016   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.80 | 105  | 2498719  | 50.584   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.34 | 75   | 162339   | 56.232   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.81 | 91   | 2470425  | 49.603   | ug/l   | 93       |
| 83) tert-Butylbenzene          | 13.04 | 119  | 2873753  | 51.886   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene     | 13.09 | 105  | 2532092  | 49.505   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.22 | 105  | 3570263  | 51.719   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.34 | 119  | 2745894  | 50.179   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 13.31 | 146  | 1554961  | 50.541   | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 13.39 | 146  | 1501795  | 49.757   | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.64 | 91   | 2872199  | 53.812   | ug/l   | 98       |
| 90) Hexachloroethane           | 13.86 | 117  | 725089   | 52.848   | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 1229829  | 48.913   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.22 | 75   | 67099    | 53.508   | ug/l   | 89       |

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Sample : VSTDCCC050  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
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MMDadoda  
12/12/2018 1:29:52 PM

Quant Time: Dec 12 03:16:56 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 06 01:49:20 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.78 | 180  | 1007943  | 51.281 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.88 | 225  | 752541   | 51.893 | ug/l  | 99       |
| 95) Naphthalene            | 14.97 | 128  | 1222977  | 52.302 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.11 | 180  | 813090   | 51.917 | ug/l  | 97       |

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

