

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120720\  
 Data File : VD067902.D  
 Acq On : 07 Dec 2020 16:25  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 12/8/2020 5:05:45 PM

Quant Time: Dec 08 03:52:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120120S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 02 08:05:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 213258   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 304067   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 276943   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 144016   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65    | 110129   | 48.10    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 96.20%  |
| 35) Dibromofluoromethane  | 7.92   | 113   | 99511    | 48.91    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 97.82%  |
| 50) Toluene-d8            | 10.34  | 98    | 362093   | 49.44    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 98.88%  |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 129815   | 51.27    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 102.54% |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 92729  | 49.964  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50  | 48349  | 45.140  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.36 | 62  | 67779  | 50.246  | ug/l   | 99     |
| 5) Bromomethane               | 2.78 | 94  | 66983  | 55.623  | ug/l   | 88     |
| 6) Chloroethane               | 2.93 | 64  | 45286  | 51.562  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 3.28 | 101 | 203332 | 49.259  | ug/l   | 96     |
| 8) Diethyl Ether              | 3.71 | 74  | 36834  | 45.783  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 89457  | 47.526  | ug/l   | 97     |
| 10) Methyl Iodide             | 4.31 | 142 | 90107  | 45.164  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 23860  | 188.605 | ug/l # | 91     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 82607  | 46.746  | ug/l   | 93     |
| 13) Acrolein                  | 3.92 | 56  | 18812  | 213.824 | ug/l   | 97     |
| 14) Allyl chloride            | 4.72 | 41  | 78154  | 47.806  | ug/l   | 94     |
| 15) Acrylonitrile             | 5.43 | 53  | 61951  | 222.072 | ug/l   | 98     |
| 16) Acetone                   | 4.16 | 43  | 61015  | 215.676 | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.41 | 76  | 225579 | 45.720  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.71 | 43  | 27694  | 52.194  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 183377 | 48.461  | ug/l   | 93     |
| 20) Methylene Chloride        | 4.97 | 84  | 90942  | 49.593  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.48 | 96  | 96442  | 47.960  | ug/l   | 94     |
| 22) Diisopropyl ether         | 6.37 | 45  | 157838 | 48.004  | ug/l   | 95     |
| 23) Vinyl Acetate             | 6.31 | 43  | 450491 | 246.281 | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 137543 | 47.720  | ug/l   | 98     |
| 25) 2-Butanone                | 7.21 | 43  | 65044  | 218.593 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 173489 | 50.477  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 106693 | 48.508  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.55 | 49  | 44666  | 48.809  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 37474  | 221.184 | ug/l   | 97     |
| 30) Chloroform                | 7.71 | 83  | 185138 | 48.065  | ug/l   | 99     |
| 31) Cyclohexane               | 7.98 | 56  | 105997 | 43.945  | ug/l   | 88     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 202659 | 49.842  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.12 | 75  | 130013 | 49.392  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.30 | 43  | 30810  | 43.428  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 194498 | 48.835  | ug/l   | 96     |

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 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
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MMDadoda  
 12/8/2020 5:05:45 PM

Quant Time: Dec 08 03:52:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120120S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 02 08:05:58 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 152192   | 48.789  | ug/l   | 96       |
| 40) Benzene                    | 8.36  | 78   | 348371   | 48.367  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.53  | 41   | 15118    | 44.370  | ug/l # | 67       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 124749   | 48.596  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 64970    | 46.543  | ug/l   | 98       |
| 44) Trichloroethene            | 9.12  | 130  | 120275   | 48.569  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 67676    | 45.779  | ug/l   | 93       |
| 46) Dibromomethane             | 9.48  | 93   | 47505    | 46.219  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.67  | 83   | 143334   | 48.916  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 32549    | 45.920  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 9861     | 839.623 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 151439   | 229.222 | ug/l   | 100      |
| 52) Toluene                    | 10.41 | 92   | 248462   | 49.339  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 122401   | 48.397  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 133452   | 48.510  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 65050    | 46.246  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 67003    | 46.818  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 100880   | 45.276  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 167803   | 257.675 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 106297   | 228.236 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 101903   | 48.060  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 65314    | 47.218  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 107631   | 47.646  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.67 | 112  | 280233   | 49.040  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 115129   | 49.397  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.75 | 91   | 490637   | 50.402  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 377199   | 98.270  | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 178480   | 52.377  | ug/l   | 97       |
| 70) Styrene                    | 12.20 | 104  | 298515   | 50.379  | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 61067    | 49.498  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 505050   | 50.995  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.29 | 43   | 54437    | 44.436  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 58297    | 44.584  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 48386m   | 46.136  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 121739   | 49.443  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 549536   | 50.062  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 317297   | 49.134  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 438260   | 51.110  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 19110    | 43.587  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 339972   | 49.353  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 372798   | 51.090  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 428986   | 50.310  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 481504   | 49.440  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 485358   | 50.849  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 226041   | 47.592  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 228243   | 48.035  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.85 | 91   | 402903   | 50.808  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.11 | 117  | 84073    | 47.708  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 201833   | 48.997  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 12757    | 46.748  | ug/l   | 88       |

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Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
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MMDadoda  
12/8/2020 5:05:45 PM

Quant Time: Dec 08 03:52:37 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120120S.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 02 08:05:58 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 148052   | 51.381 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 94073    | 50.033 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 228499   | 48.734 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 123651   | 49.691 | ug/l  | 98       |

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

