

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090220\  
 Data File : VD066524.D  
 Acq On : 02 Sep 2020 15:53  
 Operator : VA/SY  
 Sample : VD0902SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0902SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/3/2020 4:57:25 PM

Quant Time: Sep 03 03:54:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D090220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 02 15:08:44 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 7.97  | 168  | 167728   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.86  | 114  | 228569   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.64 | 117  | 213708   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.58 | 152  | 111739   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.33  | 65   | 95326    | 52.85   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 105.70% |          |
| 35) Dibromofluoromethane      | 7.91  | 113  | 74083    | 53.89   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 107.78% |          |
| 50) Toluene-d8                | 10.34 | 98   | 286067   | 55.42   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 110.84% |          |
| 62) 4-Bromofluorobenzene      | 12.63 | 95   | 100308   | 54.51   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 109.02% |          |
| Target Compounds              |       |      |          |         |         |          |
|                               |       |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 1.99  | 85   | 30477    | 21.299  | ug/l    | 90       |
| 3) Chloromethane              | 2.21  | 50   | 18961    | 22.042  | ug/l    | 100      |
| 4) Vinyl Chloride             | 2.35  | 62   | 22339    | 21.295  | ug/l    | 90       |
| 5) Bromomethane               | 2.76  | 94   | 18519    | 21.600  | ug/l    | 95       |
| 6) Chloroethane               | 2.91  | 64   | 14325    | 20.298  | ug/l    | 92       |
| 7) Trichlorofluoromethane     | 3.27  | 101  | 64950    | 20.312  | ug/l    | 99       |
| 8) Diethyl Ether              | 3.70  | 74   | 12211    | 20.375  | ug/l    | 94       |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10  | 101  | 28049    | 21.063  | ug/l    | 95       |
| 10) Methyl Iodide             | 4.30  | 142  | 28601    | 19.370  | ug/l    | 100      |
| 11) Tert butyl alcohol        | 5.21  | 59   | 12328m   | 102.125 | ug/l    |          |
| 12) 1,1-Dichloroethene        | 4.06  | 96   | 26436    | 21.125  | ug/l    | 83       |
| 13) Acrolein                  | 3.92  | 56   | 5764     | 98.378  | ug/l    | 96       |
| 14) Allyl chloride            | 4.71  | 41   | 30410    | 21.740  | ug/l    | 95       |
| 15) Acrylonitrile             | 5.41  | 53   | 22494    | 104.663 | ug/l    | 95       |
| 16) Acetone                   | 4.16  | 43   | 26180    | 98.137  | ug/l    | 93       |
| 17) Carbon Disulfide          | 4.40  | 76   | 74401    | 20.573  | ug/l #  | 93       |
| 18) Methyl Acetate            | 4.72  | 43   | 9137     | 21.331  | ug/l    | 100      |
| 19) Methyl tert-butyl Ether   | 5.47  | 73   | 66168    | 20.264  | ug/l    | 95       |
| 20) Methylene Chloride        | 4.96  | 84   | 35774    | 24.555  | ug/l #  | 83       |
| 21) trans-1,2-Dichloroethene  | 5.47  | 96   | 30746    | 21.480  | ug/l    | 88       |
| 22) Diisopropyl ether         | 6.37  | 45   | 57398    | 20.473  | ug/l #  | 90       |
| 23) Vinyl Acetate             | 6.30  | 43   | 188306   | 104.475 | ug/l    | 98       |
| 24) 1,1-Dichloroethane        | 6.26  | 63   | 45858    | 20.827  | ug/l    | 95       |
| 25) 2-Butanone                | 7.21  | 43   | 27183    | 98.449  | ug/l    | 98       |
| 26) 2,2-Dichloropropane       | 7.20  | 77   | 57423    | 20.582  | ug/l    | 100      |
| 27) cis-1,2-Dichloroethene    | 7.21  | 96   | 33575    | 21.630  | ug/l    | 93       |
| 28) Bromochloromethane        | 7.54  | 49   | 12227    | 19.194  | ug/l #  | 94       |
| 29) Tetrahydrofuran           | 7.56  | 42   | 14465    | 101.909 | ug/l    | 98       |
| 30) Chloroform                | 7.70  | 83   | 58439    | 20.554  | ug/l    | 88       |
| 31) Cyclohexane               | 7.98  | 56   | 38791    | 21.144  | ug/l    | 88       |
| 32) 1,1,1-Trichloroethane     | 7.90  | 97   | 64521    | 20.376  | ug/l    | 98       |
| 36) 1,1-Dichloropropene       | 8.11  | 75   | 43371    | 21.646  | ug/l    | 97       |
| 37) Ethyl Acetate             | 7.29  | 43   | 12459    | 20.715  | ug/l #  | 83       |
| 38) Carbon Tetrachloride      | 8.09  | 117  | 62535    | 20.488  | ug/l    | 95       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090220\  
 Data File : VD066524.D  
 Acq On : 02 Sep 2020 15:53  
 Operator : VA/SY  
 Sample : VD0902SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VD0902SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/3/2020 4:57:25 PM

Quant Time: Sep 03 03:54:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D090220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 02 15:08:44 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 47674    | 20.366  | ug/l   | 90       |
| 40) Benzene                    | 8.35  | 78   | 108505   | 20.993  | ug/l   | 95       |
| 41) Methacrylonitrile          | 7.51  | 41   | 5304     | 16.950  | ug/l # | 90       |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 44753    | 20.467  | ug/l   | 94       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 25252    | 20.043  | ug/l # | 60       |
| 44) Trichloroethene            | 9.10  | 130  | 37192    | 20.848  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 21638    | 21.100  | ug/l   | 89       |
| 46) Dibromomethane             | 9.47  | 93   | 14778    | 19.683  | ug/l   | 93       |
| 47) Bromodichloromethane       | 9.66  | 83   | 43420    | 19.458  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.45  | 41   | 12844    | 20.004  | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 3036     | 349.347 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 57705    | 99.607  | ug/l   | 96       |
| 52) Toluene                    | 10.40 | 92   | 77165    | 20.989  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 40310    | 19.772  | ug/l   | 90       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 44256    | 20.605  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 19761    | 20.830  | ug/l   | 91       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 22719    | 20.348  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 32924    | 21.015  | ug/l   | 90       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 49208    | 112.906 | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.98 | 43   | 43433    | 103.806 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 33951    | 21.642  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 19761    | 20.435  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.87 | 164  | 33757    | 20.260  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.67 | 112  | 87094    | 20.714  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 37317    | 20.977  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.74 | 91   | 154615   | 20.876  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 121737   | 42.482  | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 54143    | 19.946  | ug/l   | 97       |
| 70) Styrene                    | 12.20 | 104  | 95939    | 20.644  | ug/l   | 97       |
| 71) Bromoform                  | 12.36 | 173  | 19862    | 20.356  | ug/l # | 92       |
| 73) Isopropylbenzene           | 12.48 | 105  | 158140   | 21.180  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.29 | 43   | 22195    | 19.714  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 17708    | 20.071  | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 14590m   | 20.756  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 40143    | 21.187  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.82 | 91   | 176997   | 21.754  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 98481    | 20.920  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 137677   | 21.209  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 6121     | 19.392  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 106185   | 21.000  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 117185   | 20.582  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 132899   | 20.470  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 149066   | 20.666  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 152694   | 21.180  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 76150    | 21.670  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 74056    | 20.832  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.84 | 91   | 124991   | 20.698  | ug/l   | 97       |
| 90) Hexachloroethane           | 14.11 | 117  | 26752    | 20.678  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 64765    | 21.189  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 4602     | 19.723  | ug/l   | 91       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD090220\  
Data File : VD066524.D  
Acq On : 02 Sep 2020 15:53  
Operator : VA/SY  
Sample : VD0902SBSD01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0902SBSD01

Manual Integrations  
APPROVED

MMDadoda  
9/3/2020 4:57:25 PM

Quant Time: Sep 03 03:54:53 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D090220S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 02 15:08:44 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 49272    | 20.423 | ug/l  | 94       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 32065    | 20.503 | ug/l  | 100      |
| 95) Naphthalene            | 15.41 | 128  | 76960    | 20.522 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 43527    | 20.880 | ug/l  | 98       |

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

