

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111920\  
 Data File : VD067701.D  
 Acq On : 19 Nov 2020 12:00  
 Operator : VA/SY  
 Sample : VD1119SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1119SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 11/20/2020 10:06:25 AM

Quant Time: Nov 20 00:48:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 273823   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 402873   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 365637   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 185174   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 112465   | 46.97 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.94% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 113799   | 46.88 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.76% |      |
| 50) Toluene-d8            | 10.34  | 98  | 390897   | 45.83 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.66% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 142237   | 48.30 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.60% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 51556  | 20.584  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50  | 31431  | 18.433  | ug/l   | 95     |
| 4) Vinyl Chloride             | 2.36 | 62  | 35656  | 18.756  | ug/l   | 97     |
| 5) Bromomethane               | 2.77 | 94  | 30614  | 19.868  | ug/l   | 97     |
| 6) Chloroethane               | 2.93 | 64  | 24170  | 20.622  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.28 | 101 | 103468 | 21.020  | ug/l   | 93     |
| 8) Diethyl Ether              | 3.71 | 74  | 20753  | 20.924  | ug/l   | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 52321  | 21.057  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.30 | 142 | 51571  | 19.365  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.19 | 59  | 20231  | 191.337 | ug/l # | 79     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 46593  | 20.387  | ug/l # | 88     |
| 13) Acrolein                  | 3.93 | 56  | 4169   | 63.134  | ug/l # | 81     |
| 14) Allyl chloride            | 4.72 | 41  | 48098  | 19.664  | ug/l   | 95     |
| 15) Acrylonitrile             | 5.43 | 53  | 35448  | 96.682  | ug/l   | 93     |
| 16) Acetone                   | 4.16 | 43  | 35094  | 97.948  | ug/l # | 88     |
| 17) Carbon Disulfide          | 4.41 | 76  | 129812 | 18.536  | ug/l   | 96     |
| 18) Methyl Acetate            | 4.72 | 43  | 16025  | 21.644  | ug/l   | 89     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 96436  | 21.392  | ug/l # | 90     |
| 20) Methylene Chloride        | 4.97 | 84  | 58081  | 22.949  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 54303  | 20.400  | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.37 | 45  | 99882  | 20.954  | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.31 | 43  | 258249 | 103.503 | ug/l   | 95     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 80256  | 20.581  | ug/l   | 93     |
| 25) 2-Butanone                | 7.21 | 43  | 39679  | 103.643 | ug/l   | 92     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 90925  | 22.093  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.22 | 96  | 58765  | 21.269  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.55 | 49  | 27426  | 19.773  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 23745  | 103.543 | ug/l   | 97     |
| 30) Chloroform                | 7.71 | 83  | 100005 | 21.497  | ug/l   | 98     |
| 31) Cyclohexane               | 7.98 | 56  | 66373  | 19.113  | ug/l # | 86     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 102487 | 21.352  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 71918  | 20.855  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 18491  | 20.653  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 99798  | 22.273  | ug/l   | 96     |

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 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
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Manual Integrations  
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 11/20/2020 10:06:25 AM

Quant Time: Nov 20 00:48:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 81079    | 19.976  | ug/l   | 93       |
| 40) Benzene                    | 8.36  | 78   | 204306   | 21.871  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.53  | 41   | 11947    | 22.324  | ug/l # | 88       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 64877    | 22.479  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.46  | 43   | 37713    | 21.299  | ug/l   | 100      |
| 44) Trichloroethene            | 9.12  | 130  | 65250    | 21.244  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 42816    | 21.200  | ug/l   | 94       |
| 46) Dibromomethane             | 9.48  | 93   | 27895    | 21.723  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.67  | 83   | 76662    | 21.964  | ug/l   | 91       |
| 48) Methyl methacrylate        | 9.46  | 41   | 17778    | 19.446  | ug/l # | 89       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 5703     | 437.472 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 91668    | 108.251 | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 139529   | 22.301  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 65169    | 21.801  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 76316    | 21.488  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 37940    | 22.330  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 35627    | 20.305  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 60516    | 22.134  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 9.95  | 63   | 87812    | 107.321 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.99 | 43   | 63809    | 107.769 | ug/l   | 96       |
| 60) Dibromochloromethane       | 11.14 | 129  | 56208    | 22.363  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.26 | 107  | 37742    | 22.133  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.88 | 164  | 58431    | 21.578  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.67 | 112  | 153222   | 21.755  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 61930    | 22.310  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 259416   | 21.524  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 210718   | 44.940  | ug/l   | 97       |
| 69) o-Xylene                   | 12.18 | 106  | 94047    | 22.465  | ug/l   | 96       |
| 70) Styrene                    | 12.20 | 104  | 161365   | 22.121  | ug/l   | 100      |
| 71) Bromoform                  | 12.36 | 173  | 31014    | 21.906  | ug/l # | 95       |
| 73) Isopropylbenzene           | 12.48 | 105  | 262872   | 21.966  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.29 | 43   | 31596    | 20.064  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 36809    | 22.556  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 25995m   | 23.271  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 64584    | 21.974  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 300378   | 21.943  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 167799   | 21.580  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 234460   | 22.934  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 11176    | 20.312  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 186259   | 22.334  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 196815   | 22.716  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 228857   | 22.489  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 257224   | 21.992  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 253310   | 22.427  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 125545   | 22.386  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 123897   | 21.818  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.84 | 91   | 212412   | 21.772  | ug/l   | 98       |
| 90) Hexachloroethane           | 14.11 | 117  | 46116    | 21.681  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 107688   | 22.187  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 6271     | 21.704  | ug/l   | 92       |

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Sample : VD1119SBSD01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1119SBSD01

Manual Integrations  
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MMDadoda  
11/20/2020 10:06:25 AM

Quant Time: Nov 20 00:48:25 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 04 00:56:28 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 72416    | 21.982 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 47325    | 21.465 | ug/l  | 98       |
| 95) Naphthalene            | 15.40 | 128  | 111813   | 21.994 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 60536    | 21.459 | ug/l  | 94       |

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

