

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070720\  
 Data File : VD065926.D  
 Acq On : 07 Jul 2020 17:17  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICSV070720

Manual Integrations  
 APPROVED

MMDadoda  
 7/8/2020 12:05:25 PM

Quant Time: Jul 08 09:59:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D070720S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 08 09:45:47 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 438536   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 662601   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 608868   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 296289   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 185765   | 47.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.60%  |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 201051   | 49.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.38%  |      |
| 50) Toluene-d8            | 10.34  | 98  | 731260   | 49.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.06%  |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 256622   | 50.11 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.22% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 162473  | 41.675  | ug/l   | 96     |
| 3) Chloromethane              | 2.21 | 50  | 167079  | 43.231  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.35 | 62  | 156204  | 44.019  | ug/l   | 97     |
| 5) Bromomethane               | 2.77 | 94  | 101358  | 45.092  | ug/l   | 87     |
| 6) Chloroethane               | 2.93 | 64  | 93848   | 44.242  | ug/l   | 92     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 347799  | 45.730  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.71 | 74  | 99292   | 47.588  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 207261  | 45.559  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.30 | 142 | 228413  | 47.786  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 62848   | 258.235 | ug/l # | 85     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 199101  | 46.847  | ug/l   | 97     |
| 13) Acrolein                  | 3.93 | 56  | 45166   | 229.449 | ug/l   | 100    |
| 14) Allyl chloride            | 4.71 | 41  | 347419  | 48.237  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.42 | 53  | 224628  | 245.887 | ug/l   | 98     |
| 16) Acetone                   | 4.15 | 43  | 199215  | 218.721 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.41 | 76  | 627614  | 46.346  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.72 | 43  | 98232   | 46.009  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 448369  | 49.831  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.97 | 84  | 246867  | 49.049  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 229497  | 47.995  | ug/l   | 96     |
| 22) Diisopropyl ether         | 6.36 | 45  | 659892  | 48.754  | ug/l   | 96     |
| 23) Vinyl Acetate             | 6.30 | 43  | 1915000 | 247.871 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 380855  | 47.189  | ug/l   | 97     |
| 25) 2-Butanone                | 7.21 | 43  | 280738  | 233.257 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 325221  | 46.062  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 248836  | 48.433  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.55 | 49  | 140838  | 46.194  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 181883  | 237.656 | ug/l   | 98     |
| 30) Chloroform                | 7.71 | 83  | 384969  | 47.050  | ug/l   | 100    |
| 31) Cyclohexane               | 7.99 | 56  | 360610  | 45.411  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 353037  | 47.281  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 309165  | 47.243  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 131480  | 47.950  | ug/l # | 97     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 328018  | 46.764  | ug/l   | 99     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Jul 08 09:45:47 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 394322   | 49.080   | ug/l   | 99       |
| 40) Benzene                    | 8.35  | 78   | 859956   | 47.566   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.53  | 41   | 67102m   | 42.150   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 237370   | 46.346   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.46  | 43   | 251249   | 49.227   | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 250829   | 47.220   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 214840   | 47.879   | ug/l   | 99       |
| 46) Dibromomethane             | 9.47  | 93   | 110265   | 47.200   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.66  | 83   | 299099   | 47.730   | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.46  | 41   | 127861   | 49.763   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 28229    | 1016.974 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 625779   | 242.518  | ug/l   | 100      |
| 52) Toluene                    | 10.40 | 92   | 559090   | 48.609   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 286001   | 48.538   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 347732   | 48.840   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 153307   | 47.630   | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 199867   | 50.840   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 272316   | 48.378   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 464298   | 243.863  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 430615   | 242.655  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 208601   | 47.436   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 153602   | 47.863   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.88 | 164  | 211827   | 47.840   | ug/l   | 92       |
| 65) Chlorobenzene              | 11.67 | 112  | 593980   | 48.409   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 216956   | 47.275   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 1055224  | 48.410   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 797535   | 96.303   | ug/l   | 97       |
| 69) o-Xylene                   | 12.18 | 106  | 374277   | 49.612   | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 643557   | 49.417   | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 124101   | 47.790   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 1026731  | 49.653   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 229239   | 49.404   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 165343   | 48.163   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 113408m  | 45.628   | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 248322   | 49.512   | ug/l   | 97       |
| 78) n-propylbenzene            | 12.82 | 91   | 1189845  | 49.080   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 671915   | 48.855   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 844473   | 49.929   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 54877    | 47.442   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 697171   | 48.315   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 724589   | 50.285   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 832248   | 49.433   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.40 | 105  | 1013153  | 49.613   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 937178   | 50.175   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 453643   | 48.338   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 449436   | 48.003   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.84 | 91   | 859834   | 49.021   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.11 | 117  | 181226   | 48.114   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 389376   | 47.470   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 27020    | 47.070   | ug/l   | 95       |

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QLast Update : Wed Jul 08 09:45:47 2020  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 288537   | 49.357 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 172836   | 48.876 | ug/l  | 99       |
| 95) Naphthalene            | 15.40 | 128  | 499641   | 50.960 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 250704   | 49.718 | ug/l  | 100      |

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

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