

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092520\  
 Data File : VD066864.D  
 Acq On : 25 Sep 2020 10:36  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/29/2020 11:45:13 AM

Quant Time: Sep 26 03:08:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 414185   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 623544   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 576395   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 277791   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 191975   | 47.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.72%  |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 201193   | 50.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.44% |      |
| 50) Toluene-d8            | 10.34  | 98  | 720863   | 53.33 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.66% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 249773   | 53.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.96% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 144159  | 49.904  | ug/l   | 91     |
| 3) Chloromethane              | 2.21 | 50  | 166360  | 43.716  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.35 | 62  | 177144  | 47.118  | ug/l   | 99     |
| 5) Bromomethane               | 2.77 | 94  | 126594  | 47.907  | ug/l   | 95     |
| 6) Chloroethane               | 2.93 | 64  | 106228  | 45.500  | ug/l   | 90     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 360794  | 46.728  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.71 | 74  | 93300   | 47.598  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 212798  | 47.529  | ug/l   | 100    |
| 10) Methyl Iodide             | 4.30 | 142 | 179787  | 45.506  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 55520   | 221.196 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 193160  | 47.626  | ug/l   | 96     |
| 13) Acrolein                  | 3.93 | 56  | 84424   | 282.304 | ug/l   | 96     |
| 14) Allyl chloride            | 4.71 | 41  | 283655  | 47.629  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.42 | 53  | 208717  | 240.270 | ug/l   | 98     |
| 16) Acetone                   | 4.16 | 43  | 223759  | 260.195 | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.41 | 76  | 571705  | 46.107  | ug/l   | 97     |
| 18) Methyl Acetate            | 4.71 | 43  | 96278   | 50.190  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 437029  | 49.618  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.97 | 84  | 229554  | 49.389  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 230230  | 49.025  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.36 | 45  | 609600  | 49.783  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.31 | 43  | 1603385 | 241.267 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 381560  | 46.578  | ug/l   | 99     |
| 25) 2-Butanone                | 7.21 | 43  | 249343  | 241.273 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 348891  | 46.467  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 250701  | 49.133  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.54 | 49  | 168755  | 49.864  | ug/l # | 97     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 168313  | 254.179 | ug/l   | 99     |
| 30) Chloroform                | 7.71 | 83  | 417540  | 47.285  | ug/l   | 97     |
| 31) Cyclohexane               | 7.98 | 56  | 338074  | 45.866  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 394353  | 49.368  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 320490  | 51.808  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.28 | 43  | 119510  | 53.441  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 352218  | 52.079  | ug/l   | 99     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 380814   | 53.617   | ug/l   | 98       |
| 40) Benzene                    | 8.35  | 78   | 892302   | 51.756   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.54  | 41   | 72623m   | 52.807   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 257925   | 50.606   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.45  | 43   | 219069   | 50.810   | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 252679   | 51.419   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 221916   | 51.160   | ug/l   | 96       |
| 46) Dibromomethane             | 9.47  | 93   | 123377   | 52.350   | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.66  | 83   | 330077   | 52.136   | ug/l # | 99       |
| 48) Methyl methacrylate        | 9.45  | 41   | 118437   | 55.715   | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 31994    | 1219.884 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 590225   | 270.168  | ug/l   | 99       |
| 52) Toluene                    | 10.40 | 92   | 592206   | 53.327   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 288398   | 53.520   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 351031   | 53.425   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 169448   | 52.300   | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 190980   | 55.024   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 286964   | 53.639   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 400312   | 243.584  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 418805   | 284.268  | ug/l   | 96       |
| 60) Dibromochloromethane       | 11.14 | 129  | 223910   | 52.952   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 162256   | 53.843   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 220945   | 53.290   | ug/l   | 99       |
| 65) Chlorobenzene              | 11.67 | 112  | 617866   | 51.497   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 235624   | 51.888   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 1131388  | 53.691   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 880670   | 110.384  | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 387832   | 53.760   | ug/l   | 100      |
| 70) Styrene                    | 12.19 | 104  | 690151   | 55.087   | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 123280   | 53.620   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 1079549  | 53.796   | ug/l   | 98       |
| 74) N-amyl acetate             | 12.29 | 43   | 203932   | 52.038   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 177902   | 51.376   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 135816m  | 58.996   | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 243237   | 51.826   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.82 | 91   | 1303548  | 53.994   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 715726   | 52.024   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 925085   | 54.329   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 49650    | 53.959   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 762276   | 52.562   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 763985   | 54.602   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 918639   | 54.406   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 1095716  | 54.458   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 1018306  | 56.147   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 485764   | 52.388   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 473080   | 51.369   | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.84 | 91   | 940242   | 54.543   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.11 | 117  | 189479   | 51.460   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 413577   | 52.134   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 28068    | 50.388   | ug/l   | 95       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 268256   | 53.717 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 160191   | 53.530 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 471329   | 55.592 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 234186   | 54.332 | ug/l  | 99       |

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

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