

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040920\  
 Data File : VD065609.D  
 Acq On : 09 Apr 2020 12:03  
 Operator : VA/SY  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 4/10/2020 2:58:45 PM

Quant Time: Apr 10 01:26:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040920S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 10 01:11:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 468978   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 642750   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 600669   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 311200   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 211584   | 47.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.40%  |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 226175   | 50.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.74% |      |
| 50) Toluene-d8            | 10.34  | 98  | 856749   | 52.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.50% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 276299   | 52.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.88% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 217486  | 51.428  | ug/l | 100    |
| 3) Chloromethane              | 2.21 | 50  | 250484  | 47.630  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.35 | 62  | 249613  | 50.767  | ug/l | 100    |
| 5) Bromomethane               | 2.77 | 94  | 160122  | 46.176  | ug/l | 100    |
| 6) Chloroethane               | 2.93 | 64  | 148523  | 49.050  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 362590  | 48.620  | ug/l | 100    |
| 8) Diethyl Ether              | 3.70 | 74  | 82432   | 53.499  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.08 | 101 | 240483  | 49.329  | ug/l | 100    |
| 10) Methyl Iodide             | 4.30 | 142 | 278569  | 58.067  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.25 | 59  | 55388   | 245.172 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 222086  | 49.392  | ug/l | 100    |
| 13) Acrolein                  | 3.93 | 56  | 71742   | 230.825 | ug/l | 100    |
| 14) Allyl chloride            | 4.71 | 41  | 342887  | 51.409  | ug/l | 100    |
| 15) Acrylonitrile             | 5.43 | 53  | 224439  | 247.007 | ug/l | 100    |
| 16) Acetone                   | 4.16 | 43  | 190680  | 238.076 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.40 | 76  | 747415  | 49.958  | ug/l | 100    |
| 18) Methyl Acetate            | 4.72 | 43  | 112024  | 47.652  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 462369  | 53.192  | ug/l | 100    |
| 20) Methylene Chloride        | 4.96 | 84  | 240581  | 45.441  | ug/l | 100    |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 262930  | 51.523  | ug/l | 100    |
| 22) Diisopropyl ether         | 6.37 | 45  | 691283  | 53.920  | ug/l | 100    |
| 23) Vinyl Acetate             | 6.31 | 43  | 1868954 | 283.701 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 424502  | 49.770  | ug/l | 100    |
| 25) 2-Butanone                | 7.22 | 43  | 273703  | 249.670 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 373759  | 48.966  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 270106  | 51.717  | ug/l | 100    |
| 28) Bromochloromethane        | 7.55 | 49  | 165927  | 48.469  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.57 | 42  | 176409  | 256.077 | ug/l | 100    |
| 30) Chloroform                | 7.71 | 83  | 439751  | 49.239  | ug/l | 100    |
| 31) Cyclohexane               | 7.98 | 56  | 386213  | 48.812  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 400290  | 49.595  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 348566  | 52.675  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.30 | 43  | 127090  | 51.726  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 369686  | 51.450  | ug/l | 100    |

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| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 420447   | 56.127   | ug/l  | 100      |
| 40) Benzene                    | 8.36  | 78   | 990012   | 52.364   | ug/l  | 100      |
| 41) Methacrylonitrile          | 7.54  | 41   | 72102m   | 50.203   | ug/l  |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 266464   | 50.458   | ug/l  | 100      |
| 43) Isopropyl Acetate          | 8.46  | 43   | 237946   | 53.081   | ug/l  | 100      |
| 44) Trichloroethene            | 9.12  | 130  | 280965   | 51.706   | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 239815   | 52.091   | ug/l  | 100      |
| 46) Dibromomethane             | 9.48  | 93   | 124987   | 50.508   | ug/l  | 100      |
| 47) Bromodichloromethane       | 9.67  | 83   | 334818   | 51.596   | ug/l  | 100      |
| 48) Methyl methacrylate        | 9.46  | 41   | 112237   | 53.984   | ug/l  | 100      |
| 49) 1,4-Dioxane                | 9.47  | 88   | 27106    | 1034.282 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.24 | 43   | 615372   | 266.381  | ug/l  | 100      |
| 52) Toluene                    | 10.41 | 92   | 639839   | 53.524   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 308817   | 53.617   | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 375365   | 53.227   | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 173710   | 50.023   | ug/l  | 100      |
| 56) Ethyl methacrylate         | 10.67 | 69   | 200429   | 57.227   | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 10.96 | 76   | 294598   | 51.218   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.95  | 63   | 503572   | 273.790  | ug/l  | 100      |
| 59) 2-Hexanone                 | 10.99 | 43   | 420257   | 273.735  | ug/l  | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 236594   | 51.157   | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 167184   | 50.647   | ug/l  | 100      |
| 64) Tetrachloroethene          | 10.88 | 164  | 245967   | 51.481   | ug/l  | 100      |
| 65) Chlorobenzene              | 11.68 | 112  | 673773   | 51.794   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 258006   | 52.063   | ug/l  | 100      |
| 67) Ethyl Benzene              | 11.75 | 91   | 1186444  | 55.232   | ug/l  | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 944114   | 111.401  | ug/l  | 100      |
| 69) o-Xylene                   | 12.19 | 106  | 412382   | 56.469   | ug/l  | 100      |
| 70) Styrene                    | 12.20 | 104  | 742775   | 57.530   | ug/l  | 100      |
| 71) Bromoform                  | 12.37 | 173  | 139423   | 50.165   | ug/l  | # 100    |
| 73) Isopropylbenzene           | 12.48 | 105  | 1119578  | 56.463   | ug/l  | 100      |
| 74) N-amyl acetate             | 12.30 | 43   | 215740   | 54.939   | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 182194   | 49.985   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 128261m  | 30.676   | ug/l  |          |
| 77) Bromobenzene               | 12.77 | 156  | 285232   | 52.470   | ug/l  | 100      |
| 78) n-propylbenzene            | 12.83 | 91   | 1341736  | 56.068   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 745621   | 54.366   | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 936362   | 56.029   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 59859    | 55.553   | ug/l  | 100      |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 788587   | 53.421   | ug/l  | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 811220   | 58.050   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 942271   | 56.737   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 1109000  | 55.771   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 1045656  | 56.983   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 535632   | 51.096   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 13.61 | 146  | 531860   | 50.796   | ug/l  | 100      |
| 89) n-Butylbenzene             | 13.85 | 91   | 930630   | 56.196   | ug/l  | 100      |
| 90) Hexachloroethane           | 14.13 | 117  | 204170   | 51.004   | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 460592   | 51.646   | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 26951    | 47.935   | ug/l  | 100      |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.18 | 180  | 313602   | 53.534 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 208654   | 51.243 | ug/l  | 100      |
| 95) Naphthalene            | 15.42 | 128  | 479020   | 56.436 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 271842   | 53.610 | ug/l  | 100      |

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

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