

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073020\  
 Data File : VD066120.D  
 Acq On : 30 Jul 2020 19:15  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 7/31/2020 11:56:16 AM

Quant Time: Jul 31 03:54:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 227679   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 341581   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 328628   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 179077   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 109529   | 59.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 118.24% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 112550   | 54.32 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.64% |      |
| 50) Toluene-d8            | 10.34  | 98  | 408766   | 52.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.92% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 147788   | 55.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.44% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 65729  | 38.041  | ug/l | 96     |
| 3) Chloromethane              | 2.21 | 50  | 62975  | 44.661  | ug/l | 97     |
| 4) Vinyl Chloride             | 2.35 | 62  | 62099  | 46.247  | ug/l | 93     |
| 5) Bromomethane               | 2.77 | 94  | 49951  | 53.218  | ug/l | 93     |
| 6) Chloroethane               | 2.92 | 64  | 41846  | 52.205  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 155552 | 47.626  | ug/l | 93     |
| 8) Diethyl Ether              | 3.71 | 74  | 47867  | 53.022  | ug/l | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 88459  | 44.855  | ug/l | 97     |
| 10) Methyl Iodide             | 4.30 | 142 | 98904  | 49.709  | ug/l | 94     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 31402  | 271.787 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 85774  | 45.565  | ug/l | 92     |
| 13) Acrolein                  | 3.92 | 56  | 31305  | 200.563 | ug/l | 98     |
| 14) Allyl chloride            | 4.71 | 41  | 139526 | 47.415  | ug/l | 90     |
| 15) Acrylonitrile             | 5.41 | 53  | 103715 | 268.909 | ug/l | 98     |
| 16) Acetone                   | 4.16 | 43  | 81274  | 216.735 | ug/l | 97     |
| 17) Carbon Disulfide          | 4.40 | 76  | 245011 | 40.125  | ug/l | 100    |
| 18) Methyl Acetate            | 4.71 | 43  | 47455  | 54.399  | ug/l | 96     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 230292 | 59.541  | ug/l | 98     |
| 20) Methylene Chloride        | 4.96 | 84  | 109051 | 52.757  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 106050 | 49.846  | ug/l | 97     |
| 22) Diisopropyl ether         | 6.36 | 45  | 289037 | 51.702  | ug/l | 93     |
| 23) Vinyl Acetate             | 6.30 | 43  | 868524 | 275.471 | ug/l | 96     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 178662 | 52.744  | ug/l | 99     |
| 25) 2-Butanone                | 7.21 | 43  | 127033 | 255.299 | ug/l | 96     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 155277 | 50.976  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 122925 | 54.569  | ug/l | 95     |
| 28) Bromochloromethane        | 7.54 | 49  | 77653  | 54.013  | ug/l | 90     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 80867  | 263.400 | ug/l | 93     |
| 30) Chloroform                | 7.71 | 83  | 198104 | 55.910  | ug/l | 99     |
| 31) Cyclohexane               | 7.98 | 56  | 132055 | 39.627  | ug/l | 94     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 178826 | 54.561  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 137818 | 47.275  | ug/l | 98     |
| 37) Ethyl Acetate             | 7.29 | 43  | 61307  | 55.066  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 161118 | 50.936  | ug/l | 97     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 157004   | 44.473   | ug/l   | 97       |
| 40) Benzene                    | 8.35  | 78   | 413251   | 50.670   | ug/l   | 95       |
| 41) Methacrylonitrile          | 7.52  | 41   | 33532    | 52.576   | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 128800   | 57.631   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 118852   | 54.658   | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 123362   | 49.984   | ug/l   | 90       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 101965   | 51.621   | ug/l   | 99       |
| 46) Dibromomethane             | 9.47  | 93   | 59548    | 56.000   | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.66  | 83   | 155462   | 55.293   | ug/l   | 93       |
| 48) Methyl methacrylate        | 9.46  | 41   | 57164    | 52.116   | ug/l # | 85       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 13576    | 1101.994 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 300175   | 273.976  | ug/l   | 98       |
| 52) Toluene                    | 10.40 | 92   | 280072   | 52.658   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 147677   | 56.378   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 172607   | 54.361   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 84526    | 56.048   | ug/l   | 94       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 104887   | 59.819   | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 136267   | 54.581   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 217737   | 259.952  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.98 | 43   | 207464   | 273.247  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.14 | 129  | 119781   | 58.907   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 84107    | 57.842   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.88 | 164  | 110019   | 49.324   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.67 | 112  | 317813   | 52.819   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 129380   | 58.234   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.74 | 91   | 539773   | 52.128   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 418475   | 105.146  | ug/l   | 97       |
| 69) o-Xylene                   | 12.18 | 106  | 194669   | 53.778   | ug/l   | 95       |
| 70) Styrene                    | 12.20 | 104  | 350046   | 56.281   | ug/l   | 99       |
| 71) Bromoform                  | 12.36 | 173  | 74815    | 57.488   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 547598   | 50.535   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 114129   | 50.798   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 86122    | 48.092   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 65722m   | 48.742   | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 140310   | 50.667   | ug/l   | 96       |
| 78) n-propylbenzene            | 12.83 | 91   | 626462   | 49.822   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 359901   | 50.100   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 461274   | 51.813   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 29836    | 50.775   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 380727   | 50.212   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 397715   | 51.053   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 465302   | 52.977   | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 537098   | 50.054   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 508412   | 52.153   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 260792   | 50.723   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 263328   | 50.663   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 451998   | 49.865   | ug/l   | 98       |
| 90) Hexachloroethane           | 14.12 | 117  | 99207    | 49.160   | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 234486   | 52.631   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 16430    | 55.981   | 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  | 172791   | 54.031 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 103527   | 52.363 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 297604   | 52.165 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 150961   | 54.300 | ug/l  | 98       |

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

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