

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD072820\  
 Data File : VD066080.D  
 Acq On : 28 Jul 2020 16:36  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 7/29/2020 7:05:58 PM

Quant Time: Jul 29 02:21:46 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  | 252612   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 367965   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 352538   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 190485   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 115348   | 56.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.24% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 118187   | 52.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.92% |      |
| 50) Toluene-d8            | 10.34  | 98  | 454482   | 54.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.32% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 158898   | 55.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.24% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 86162  | 44.944  | ug/l   | 93     |
| 3) Chloromethane              | 2.21 | 50  | 74911  | 47.883  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.35 | 62  | 74692  | 50.135  | ug/l   | 97     |
| 5) Bromomethane               | 2.77 | 94  | 56137  | 53.977  | ug/l   | 96     |
| 6) Chloroethane               | 2.92 | 64  | 48466  | 54.496  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 194088 | 53.560  | ug/l   | 96     |
| 8) Diethyl Ether              | 3.70 | 74  | 53990  | 53.901  | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 115357 | 52.721  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.30 | 142 | 132257 | 58.103  | ug/l   | 95     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 36724  | 288.122 | ug/l # | 89     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 108086 | 51.750  | ug/l   | 93     |
| 13) Acrolein                  | 3.92 | 56  | 35958  | 207.635 | ug/l   | 99     |
| 14) Allyl chloride            | 4.71 | 41  | 166402 | 50.967  | ug/l   | 92     |
| 15) Acrylonitrile             | 5.42 | 53  | 115908 | 270.861 | ug/l   | 96     |
| 16) Acetone                   | 4.15 | 43  | 97086  | 233.347 | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.40 | 76  | 317031 | 46.795  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.71 | 43  | 49220  | 50.854  | ug/l   | 95     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 260789 | 60.771  | ug/l   | 95     |
| 20) Methylene Chloride        | 4.96 | 84  | 137716 | 60.484  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 126607 | 53.634  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.36 | 45  | 335198 | 54.041  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.30 | 43  | 985750 | 281.793 | ug/l   | 96     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 206975 | 55.072  | ug/l   | 98     |
| 25) 2-Butanone                | 7.21 | 43  | 142771 | 258.608 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 193285 | 57.191  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 140982 | 56.408  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.54 | 49  | 83848  | 52.565  | ug/l   | 91     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 90617  | 266.026 | ug/l   | 98     |
| 30) Chloroform                | 7.70 | 83  | 231788 | 58.960  | ug/l   | 94     |
| 31) Cyclohexane               | 7.98 | 56  | 175873 | 47.566  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 213928 | 58.829  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 167831 | 53.442  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.29 | 43  | 67050  | 55.906  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.09 | 117 | 196840 | 57.767  | ug/l   | 95     |

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Manual Integrations  
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 7/29/2020 7:05:58 PM

Quant Time: Jul 29 02:21:46 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) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 203437   | 53.493   | ug/l   | 97       |
| 40) Benzene                    | 8.35  | 78   | 488992   | 55.657   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.54  | 41   | 43169m   | 62.833   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 146917   | 61.024   | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.45  | 43   | 130619   | 55.762   | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 145377   | 54.680   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 117056   | 55.011   | ug/l   | 96       |
| 46) Dibromomethane             | 9.47  | 93   | 65577    | 57.248   | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.66  | 83   | 178154   | 58.820   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 61375    | 51.943   | ug/l # | 83       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 15433    | 1162.907 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 327064   | 277.113  | ug/l   | 99       |
| 52) Toluene                    | 10.40 | 92   | 332940   | 58.109   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 170252   | 60.335   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 196983   | 57.589   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 92985    | 57.236   | ug/l   | 93       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 114814   | 60.786   | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 155480   | 57.812   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 231225   | 256.261  | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.98 | 43   | 226492   | 276.918  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.14 | 129  | 134990   | 61.627   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 93933    | 59.968   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.88 | 164  | 130746   | 54.641   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.67 | 112  | 361563   | 56.015   | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 140471   | 58.938   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 635391   | 57.200   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 493150   | 115.505  | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 231705   | 59.668   | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 405297   | 60.745   | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 84246    | 60.345   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 632666   | 54.889   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.30 | 43   | 128238   | 53.659   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 96613    | 50.719   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 62809m   | 43.792   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 162268   | 55.087   | ug/l   | 95       |
| 78) n-propylbenzene            | 12.83 | 91   | 735502   | 54.990   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 421956   | 55.221   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 541720   | 57.206   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 34012    | 54.416   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 442114   | 54.816   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 467587   | 56.427   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 533393   | 57.093   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 639909   | 56.064   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 605567   | 58.399   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 305410   | 55.844   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 304760   | 55.122   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 549102   | 56.950   | ug/l   | 98       |
| 90) Hexachloroethane           | 14.12 | 117  | 117649   | 54.807   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 270048   | 56.983   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 16538    | 52.974   | 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  | 204662   | 60.165 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 125717   | 59.779 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 333696   | 54.796 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 175643   | 59.394 | ug/l  | 99       |

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

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