

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031620\  
 Data File : VD065509.D  
 Acq On : 16 Mar 2020 12:49  
 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  
 3/17/2020 12:09:52 PM

Quant Time: Mar 17 07:34:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 01:22:07 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 7.98   | 168  | 474785   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.87   | 114  | 664670   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.65  | 117  | 599863   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.58  | 152  | 301567   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.34   | 65   | 187545   | 46.05   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 92.10%  |          |
| 35) Dibromofluoromethane      | 7.92   | 113  | 207234   | 50.42   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 100.84% |          |
| 50) Toluene-d8                | 10.34  | 98   | 795334   | 50.44   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 100.88% |          |
| 62) 4-Bromofluorobenzene      | 12.64  | 95   | 259344   | 53.28   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 106.56% |          |
| Target Compounds              |        |      |          |         |         |          |
|                               |        |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 1.99   | 85   | 180307   | 44.188  | ug/l    | 98       |
| 3) Chloromethane              | 2.21   | 50   | 224409   | 45.552  | ug/l    | 99       |
| 4) Vinyl Chloride             | 2.36   | 62   | 235140   | 48.392  | ug/l    | 98       |
| 5) Bromomethane               | 2.77   | 94   | 154001   | 57.256  | ug/l    | 99       |
| 6) Chloroethane               | 2.93   | 64   | 148312   | 49.836  | ug/l    | 97       |
| 7) Trichlorofluoromethane     | 3.27   | 101  | 353399   | 49.358  | ug/l    | 99       |
| 8) Diethyl Ether              | 3.71   | 74   | 104143   | 48.912  | ug/l    | 96       |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09   | 101  | 231199   | 50.138  | ug/l    | 99       |
| 10) Methyl Iodide             | 4.30   | 142  | 269111   | 56.174  | ug/l    | 97       |
| 11) Tert butyl alcohol        | 5.24   | 59   | 59651    | 255.346 | ug/l    | 99       |
| 12) 1,1-Dichloroethene        | 4.06   | 96   | 216458   | 49.022  | ug/l    | 98       |
| 13) Acrolein                  | 3.93   | 56   | 83227    | 206.577 | ug/l    | 100      |
| 14) Allyl chloride            | 4.71   | 41   | 335190   | 49.416  | ug/l    | 99       |
| 15) Acrylonitrile             | 5.43   | 53   | 226839   | 244.888 | ug/l    | 99       |
| 16) Acetone                   | 4.16   | 43   | 224409   | 272.452 | ug/l    | 99       |
| 17) Carbon Disulfide          | 4.40   | 76   | 675905   | 45.965  | ug/l    | 99       |
| 18) Methyl Acetate            | 4.72   | 43   | 99101    | 47.431  | ug/l    | 98       |
| 19) Methyl tert-butyl Ether   | 5.48   | 73   | 428881   | 50.508  | ug/l    | 99       |
| 20) Methylene Chloride        | 4.96   | 84   | 240680   | 54.091  | ug/l    | 96       |
| 21) trans-1,2-Dichloroethene  | 5.47   | 96   | 249751   | 50.846  | ug/l    | 99       |
| 22) Diisopropyl ether         | 6.37   | 45   | 658601   | 52.231  | ug/l    | 98       |
| 23) Vinyl Acetate             | 6.31   | 43   | 1841105  | 262.965 | ug/l    | 99       |
| 24) 1,1-Dichloroethane        | 6.27   | 63   | 407497   | 50.384  | ug/l    | 98       |
| 25) 2-Butanone                | 7.22   | 43   | 279299   | 248.483 | ug/l    | 97       |
| 26) 2,2-Dichloropropane       | 7.21   | 77   | 364689   | 51.599  | ug/l    | 99       |
| 27) cis-1,2-Dichloroethene    | 7.21   | 96   | 262716   | 52.327  | ug/l    | 98       |
| 28) Bromochloromethane        | 7.55   | 49   | 167552   | 51.780  | ug/l    | 99       |
| 29) Tetrahydrofuran           | 7.57   | 42   | 172927   | 240.910 | ug/l    | 97       |
| 30) Chloroform                | 7.71   | 83   | 413709   | 51.177  | ug/l    | 99       |
| 31) Cyclohexane               | 7.98   | 56   | 385266   | 47.639  | ug/l    | 97       |
| 32) 1,1,1-Trichloroethane     | 7.91   | 97   | 382585   | 51.212  | ug/l    | 99       |
| 36) 1,1-Dichloropropene       | 8.11   | 75   | 341443   | 53.591  | ug/l    | 98       |
| 37) Ethyl Acetate             | 7.30   | 43   | 119287   | 48.440  | ug/l    | 100      |
| 38) Carbon Tetrachloride      | 8.10   | 117  | 354187   | 53.609  | ug/l    | 93       |

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 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 3/17/2020 12:09:52 PM

Quant Time: Mar 17 07:34:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 01:22:07 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 409645   | 53.234   | ug/l   | 96       |
| 40) Benzene                    | 8.36  | 78   | 960314   | 53.908   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.53  | 41   | 64769    | 49.732   | ug/l   | 92       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 248588   | 53.441   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.46  | 43   | 226175   | 49.741   | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 270178   | 53.706   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 232394   | 53.856   | ug/l   | 96       |
| 46) Dibromomethane             | 9.48  | 93   | 118729   | 53.045   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.67  | 83   | 311134   | 53.432   | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.46  | 41   | 109030   | 50.975   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 27102    | 1058.570 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 613068   | 267.930  | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 616129   | 54.903   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 295790   | 54.357   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 365452   | 55.483   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 166000   | 52.364   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 194973   | 54.556   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 287705   | 53.638   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 264994   | 237.353  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.99 | 43   | 428671   | 270.632  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 222370   | 54.722   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 160656   | 53.130   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.88 | 164  | 237751   | 55.312   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.67 | 112  | 641772   | 54.064   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 236278   | 54.652   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 1152409  | 56.185   | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 891653   | 112.742  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 398098   | 57.224   | ug/l   | 100      |
| 70) Styrene                    | 12.20 | 104  | 702901   | 57.409   | ug/l   | 100      |
| 71) Bromoform                  | 12.37 | 173  | 131095   | 53.984   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 1106893  | 55.804   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.30 | 43   | 204741   | 50.419   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 174977   | 50.185   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 119662m  | 50.286   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 266285   | 54.034   | ug/l   | 97       |
| 78) n-propylbenzene            | 12.83 | 91   | 1312276  | 55.759   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 715064   | 53.910   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 907617   | 55.658   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 57387    | 50.892   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 751070   | 53.886   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 767885   | 55.660   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 895083   | 55.685   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 1099453  | 55.831   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 1009321  | 56.169   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 510286   | 53.858   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 492718   | 52.279   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.86 | 91   | 930864   | 56.034   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 194397   | 52.532   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 431990   | 53.578   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 26432    | 49.778   | ug/l   | 100      |

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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  
3/17/2020 12:09:52 PM

Quant Time: Mar 17 07:34:52 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 01:22:07 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 295663   | 54.104 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 194826   | 54.258 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 475973   | 48.968 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 255353   | 54.074 | ug/l  | 100      |

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

