

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072320\  
 Data File : VD066018.D  
 Acq On : 23 Jul 2020 12:23  
 Operator : VA/SY  
 Sample : VD0723SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0723SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/24/2020 12:59:50 PM

Quant Time: Jul 24 03:46:24 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  | 335176   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 487231   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 452122   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 234685   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 134838   | 49.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.88%  |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 143455   | 48.54 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.08%  |      |
| 50) Toluene-d8            | 10.34  | 98  | 557270   | 50.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.24% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 194319   | 50.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.82% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 59993  | 23.585  | ug/l   | 97     |
| 3) Chloromethane              | 2.21 | 50  | 46552  | 22.426  | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.35 | 62  | 42790  | 21.647  | ug/l   | 97     |
| 5) Bromomethane               | 2.76 | 94  | 30143  | 18.524  | ug/l   | 91     |
| 6) Chloroethane               | 2.92 | 64  | 27057  | 22.929  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 107466 | 22.351  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.71 | 74  | 27762  | 20.889  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 62178  | 21.417  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.29 | 142 | 65221  | 27.132  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.22 | 59  | 19354  | 96.096  | ug/l # | 94     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 58549  | 21.127  | ug/l   | 93     |
| 13) Acrolein                  | 3.92 | 56  | 20217  | 87.984  | ug/l   | 99     |
| 14) Allyl chloride            | 4.71 | 41  | 89640  | 20.693  | ug/l   | 97     |
| 15) Acrylonitrile             | 5.42 | 53  | 56970  | 100.337 | ug/l   | 95     |
| 16) Acetone                   | 4.16 | 43  | 49311  | 89.325  | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.41 | 76  | 185060 | 20.587  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.72 | 43  | 25650  | 19.973  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 119223 | 20.939  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.97 | 84  | 80319  | 24.820  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 5.46 | 96  | 67709  | 21.618  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.36 | 45  | 174819 | 21.242  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.31 | 43  | 485689 | 104.641 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 109133 | 21.885  | ug/l   | 98     |
| 25) 2-Butanone                | 7.21 | 43  | 69189  | 94.454  | ug/l # | 90     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 98909  | 22.057  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 71121  | 21.447  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.55 | 49  | 41336  | 19.531  | ug/l   | 93     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 43911  | 97.156  | ug/l   | 97     |
| 30) Chloroform                | 7.71 | 83  | 112506 | 21.569  | ug/l   | 97     |
| 31) Cyclohexane               | 7.99 | 56  | 100372 | 20.459  | ug/l   | 92     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 104910 | 21.743  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 90695  | 21.811  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.29 | 43  | 28711  | 18.079  | ug/l # | 80     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 99973  | 22.157  | ug/l   | 97     |

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 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VD0723SBS01

Manual Integrations  
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MMDadoda  
 7/24/2020 12:59:50 PM

Quant Time: Jul 24 03:46:24 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   | 107676   | 21.383  | ug/l   | 98       |
| 40) Benzene                    | 8.36  | 78   | 251210   | 21.594  | ug/l   | 94       |
| 41) Methacrylonitrile          | 7.53  | 41   | 18297m   | 20.113  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 71529    | 22.438  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.46  | 43   | 61877    | 19.950  | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 76451    | 21.716  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 59602    | 21.154  | ug/l   | 100      |
| 46) Dibromomethane             | 9.47  | 93   | 33365    | 21.997  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.67  | 83   | 85842    | 21.404  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.46  | 41   | 32773    | 20.947  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 7597     | 432.323 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 159279   | 101.919 | ug/l   | 98       |
| 52) Toluene                    | 10.41 | 92   | 169506   | 22.343  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 79785    | 21.354  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 100654   | 22.224  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 45427    | 21.118  | ug/l   | 92       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 52337    | 20.926  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 75942    | 21.325  | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 131974   | 110.461 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.99 | 43   | 106962   | 98.764  | ug/l   | 95       |
| 60) Dibromochloromethane       | 11.14 | 129  | 63652    | 21.946  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 45515    | 21.944  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.88 | 164  | 66730    | 21.745  | ug/l   | 93       |
| 65) Chlorobenzene              | 11.67 | 112  | 182895   | 22.094  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 69831    | 22.846  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.75 | 91   | 314119   | 22.050  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.86 | 106  | 252990   | 46.204  | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 114518   | 22.995  | ug/l   | 97       |
| 70) Styrene                    | 12.20 | 104  | 198881   | 23.242  | ug/l   | 100      |
| 71) Bromoform                  | 12.36 | 173  | 39892    | 22.281  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 311939   | 21.966  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 58401    | 19.835  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 48018    | 20.460  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 38447m   | 21.758  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 81541    | 22.468  | ug/l   | 94       |
| 78) n-propylbenzene            | 12.83 | 91   | 366047   | 22.213  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 207657   | 22.058  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 258929   | 22.193  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 16262    | 21.117  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 220410   | 22.181  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 228348   | 22.366  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 263365   | 22.881  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 314030   | 22.331  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 300000   | 23.482  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 155854   | 23.130  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 149876   | 22.003  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 266918   | 22.469  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 56090    | 21.208  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 131299   | 22.487  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 7610     | 19.785  | ug/l   | 98       |

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Data File : VD066018.D  
Acq On : 23 Jul 2020 12:23  
Operator : VA/SY  
Sample : VD0723SBSD01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0723SBSD01

Manual Integrations  
APPROVED

MMDadoda  
7/24/2020 12:59:50 PM

Quant Time: Jul 24 03:46:24 2020  
Quant Method : Z:\V0ASRV\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) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 94921    | 22.649 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 60426    | 23.321 | ug/l  | 96       |
| 95) Naphthalene            | 15.41 | 128  | 141757   | 21.218 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 82743    | 22.710 | ug/l  | 98       |

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

