

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092420\  
 Data File : VD066843.D  
 Acq On : 24 Sep 2020 11:35  
 Operator : VA/SY  
 Sample : VD0924SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0924SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/25/2020 4:00:02 PM

Quant Time: Sep 25 01:26:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 406132   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 639680   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 583375   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 275937   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 179479   | 45.15 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.30% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 187579   | 46.09 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.18% |      |
| 50) Toluene-d8            | 10.34  | 98  | 681334   | 49.14 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.28% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 231727   | 48.82 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.64% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 74618  | 23.235 | ug/l   | 88     |
| 3) Chloromethane              | 2.21 | 50  | 75721  | 20.292 | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.35 | 62  | 72761  | 19.737 | ug/l   | 90     |
| 5) Bromomethane               | 2.76 | 94  | 51188  | 19.755 | ug/l   | 100    |
| 6) Chloroethane               | 2.92 | 64  | 43717  | 19.096 | ug/l # | 74     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 152081 | 20.087 | ug/l   | 100    |
| 8) Diethyl Ether              | 3.70 | 74  | 35900  | 18.678 | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 85448  | 19.464 | ug/l   | 100    |
| 10) Methyl Iodide             | 4.30 | 142 | 79836  | 20.608 | ug/l   | 97     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 24733  | 68.233 | ug/l # | 85     |
| 12) 1,1-Dichloroethene        | 4.07 | 96  | 79961  | 20.106 | ug/l   | 98     |
| 13) Acrolein                  | 3.92 | 56  | 25444  | 86.769 | ug/l   | 93     |
| 14) Allyl chloride            | 4.71 | 41  | 111308 | 19.060 | ug/l   | 98     |
| 15) Acrylonitrile             | 5.43 | 53  | 78729  | 92.428 | ug/l   | 97     |
| 16) Acetone                   | 4.15 | 43  | 68565  | 81.311 | ug/l # | 85     |
| 17) Carbon Disulfide          | 4.41 | 76  | 240076 | 19.745 | ug/l   | 97     |
| 18) Methyl Acetate            | 4.71 | 43  | 34881  | 16.077 | ug/l   | 95     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 157482 | 18.234 | ug/l   | 91     |
| 20) Methylene Chloride        | 4.97 | 84  | 100482 | 18.400 | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 92184  | 20.019 | ug/l   | 96     |
| 22) Diisopropyl ether         | 6.36 | 45  | 228614 | 19.040 | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.31 | 43  | 548154 | 85.858 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.27 | 63  | 156104 | 19.434 | ug/l   | 96     |
| 25) 2-Butanone                | 7.21 | 43  | 89047  | 87.874 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 140397 | 19.070 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 93773  | 18.742 | ug/l   | 95     |
| 28) Bromochloromethane        | 7.54 | 49  | 63063  | 19.004 | ug/l # | 98     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 59255  | 91.259 | ug/l   | 98     |
| 30) Chloroform                | 7.71 | 83  | 167154 | 19.305 | ug/l   | 99     |
| 31) Cyclohexane               | 7.98 | 56  | 140762 | 19.475 | ug/l   | 92     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 150527 | 19.218 | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 127758 | 20.132 | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 44308  | 19.313 | ug/l # | 92     |
| 38) Carbon Tetrachloride      | 8.09 | 117 | 138292 | 19.932 | ug/l # | 97     |

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 ALS Vial : 5 Sample Multiplier: 1

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 9/25/2020 4:00:02 PM

Quant Time: Sep 25 01:26:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.35  | 83   | 143668   | 19.718  | ug/l   | 97       |
| 40) Benzene                    | 8.35  | 78   | 356782   | 20.172  | ug/l   | 95       |
| 41) Methacrylonitrile          | 7.53  | 41   | 21890m   | 15.515  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.42  | 62   | 100122   | 19.149  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.44  | 43   | 83126    | 18.794  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 102079   | 20.249  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 88842    | 19.965  | ug/l   | 97       |
| 46) Dibromomethane             | 9.47  | 93   | 47989    | 19.848  | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.66  | 83   | 127853   | 19.685  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.45  | 41   | 42881    | 19.663  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 11953    | 370.636 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 210550   | 93.946  | ug/l   | 97       |
| 52) Toluene                    | 10.40 | 92   | 234384   | 20.573  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 107093   | 19.373  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 128710   | 19.095  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 64153    | 19.301  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 64304    | 18.059  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 109736   | 19.994  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 186877   | 110.843 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.98 | 43   | 138210   | 91.445  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 86796    | 20.009  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 60646    | 19.617  | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.87 | 164  | 88717    | 21.142  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.67 | 112  | 242506   | 19.970  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 89709    | 19.519  | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.74 | 91   | 424102   | 19.885  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.85 | 106  | 335080   | 41.497  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 146225   | 20.027  | ug/l   | 98       |
| 70) Styrene                    | 12.20 | 104  | 258811   | 20.411  | ug/l   | 100      |
| 71) Bromoform                  | 12.36 | 173  | 44682    | 19.202  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 398068   | 19.970  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.29 | 43   | 72970    | 18.745  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 66831    | 19.430  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 40139m   | 17.553  | ug/l   |          |
| 77) Bromobenzene               | 12.76 | 156  | 94528    | 20.276  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.82 | 91   | 495103   | 20.646  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 272181   | 19.917  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 347816   | 20.564  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 16773    | 18.351  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 297690   | 20.665  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 282581   | 20.332  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 342234   | 20.405  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 403244   | 20.176  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 365198   | 20.271  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 185157   | 20.103  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 183322   | 20.040  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.84 | 91   | 341091   | 19.919  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 72375    | 19.788  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.89 | 146  | 160202   | 20.330  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 11017    | 19.911  | ug/l   | 97       |

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Sample : VD0924SBSD01  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0924SBSD01

Manual Integrations  
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MMDadoda  
9/25/2020 4:00:02 PM

Quant Time: Sep 25 01:26:52 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 23 01:34:05 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 97404    | 19.636 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 57764    | 19.432 | ug/l  | 96       |
| 95) Naphthalene            | 15.40 | 128  | 156498   | 18.582 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 85450    | 19.958 | ug/l  | 100      |

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

