

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD011921\  
 Data File : VD068082.D  
 Acq On : 19 Jan 2021 10:41  
 Operator : VA/SY  
 Sample : VSTDIC005  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 1/20/2021 4:56:50 PM

Quant Time: Jan 19 12:22:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 12:20:30 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 7.985  | 168  | 597411   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.867  | 114  | 1016326  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.649 | 117  | 904961   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.573 | 152  | 407735   | 50.00 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.332  | 65    | 31651    | 6.11     | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 12.22%# |
| 35) Dibromofluoromethane    | 7.920  | 113   | 28661    | 4.98     | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 9.96%#  |
| 50) Toluene-d8              | 10.344 | 98    | 121311   | 5.66     | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 11.32%# |
| 62) 4-Bromofluorobenzene    | 12.632 | 95    | 44215    | 5.83     | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 11.66%# |

|                              |       |     |        |       |           |
|------------------------------|-------|-----|--------|-------|-----------|
| Target Compounds             |       |     |        |       | Qvalue    |
| 2) Dichlorodifluoromethane   | 1.991 | 85  | 37675  | 6.81  | ug/l 100  |
| 3) Chloromethane             | 2.209 | 50  | 41839  | 7.87  | ug/l 95   |
| 4) Vinyl Chloride            | 2.350 | 62  | 42917  | 7.31  | ug/l 98   |
| 5) Bromomethane              | 2.773 | 94  | 31052  | 6.97  | ug/l 96   |
| 6) Chloroethane              | 2.926 | 64  | 25933  | 7.03  | ug/l 95   |
| 7) Trichlorofluoromethane    | 3.273 | 101 | 56706  | 5.30  | ug/l 98   |
| 8) Diethyl Ether             | 3.715 | 74  | 17677  | 6.59  | ug/l 99   |
| 9) 1,1,2-Trichlorotrifluo... | 4.103 | 101 | 33732  | 5.72  | ug/l 92   |
| 10) Methyl Iodide            | 4.303 | 142 | 21125  | 3.47  | ug/l 89   |
| 11) Tert butyl alcohol       | 5.179 | 59  | 36365  | 83.73 | ug/l # 78 |
| 12) 1,1-Dichloroethene       | 4.073 | 96  | 32706  | 5.76  | ug/l 88   |
| 13) Acrolein                 | 3.926 | 56  | 12599  | 31.39 | ug/l 93   |
| 14) Allyl chloride           | 4.720 | 41  | 47506  | 6.88  | ug/l 96   |
| 15) Acrylonitrile            | 5.432 | 53  | 31835  | 30.71 | ug/l 98   |
| 16) Acetone                  | 4.162 | 43  | 25260  | 30.10 | ug/l 89   |
| 17) Carbon Disulfide         | 4.415 | 76  | 104529 | 6.10  | ug/l 98   |
| 18) Methyl Acetate           | 4.726 | 43  | 13968  | 6.35  | ug/l # 87 |
| 19) Methyl tert-butyl Ether  | 5.485 | 73  | 76368  | 6.45  | ug/l 92   |
| 20) Methylene Chloride       | 4.973 | 84  | 51803  | 6.30  | ug/l 90   |
| 21) trans-1,2-Dichloroethene | 5.479 | 96  | 39005  | 6.13  | ug/l 94   |
| 22) Diisopropyl ether        | 6.373 | 45  | 97627  | 7.09  | ug/l # 88 |
| 23) Vinyl Acetate            | 6.314 | 43  | 236492 | 32.80 | ug/l 95   |
| 24) 1,1-Dichloroethane       | 6.267 | 63  | 61640  | 6.08  | ug/l 95   |
| 25) 2-Butanone               | 7.214 | 43  | 40475  | 36.50 | ug/l 90   |
| 26) 2,2-Dichloropropane      | 7.214 | 77  | 62964  | 6.34  | ug/l 95   |
| 27) cis-1,2-Dichloroethene   | 7.220 | 96  | 40367  | 5.87  | ug/l 87   |
| 28) Bromochloromethane       | 7.550 | 49  | 22846  | 6.78  | ug/l # 75 |
| 29) Tetrahydrofuran          | 7.567 | 42  | 26602  | 37.36 | ug/l 89   |
| 30) Chloroform               | 7.714 | 83  | 65683  | 5.87  | ug/l 91   |
| 31) Cyclohexane              | 7.991 | 56  | 69932  | 7.66  | ug/l # 90 |
| 32) 1,1,1-Trichloroethane    | 7.908 | 97  | 57997  | 5.41  | ug/l 94   |
| 36) 1,1-Dichloropropene      | 8.114 | 75  | 53174  | 5.80  | ug/l 97   |
| 37) Ethyl Acetate            | 7.291 | 43  | 19845  | 6.88  | ug/l 98   |
| 38) Carbon Tetrachloride     | 8.103 | 117 | 48623  | 4.62  | ug/l 98   |
| 39) Methylcyclohexane        | 9.355 | 83  | 67521  | 6.03  | ug/l 98   |
| 40) Benzene                  | 8.355 | 78  | 144506 | 5.61  | ug/l 94   |

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 Operator : VA/SY  
 Sample : VSTDIC005  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
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MMDadoda  
 1/20/2021 4:56:50 PM

Quant Time: Jan 19 12:22:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 12:20:30 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.538  | 41   | 12132m   | 7.38   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 38438    | 5.35   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.455  | 43   | 38888    | 7.04   | ug/l   | 94       |
| 44) Trichloroethene           | 9.114  | 130  | 39885    | 5.12   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.391  | 63   | 35184    | 5.88   | ug/l   | 100      |
| 46) Dibromomethane            | 9.485  | 93   | 17473    | 5.10   | ug/l   | 88       |
| 47) Bromodichloromethane      | 9.667  | 83   | 47232    | 5.07   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.461  | 41   | 18014    | 6.37   | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.467  | 88   | 4095     | 111.37 | ug/l # | 61       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 87541    | 32.21  | ug/l   | 96       |
| 52) Toluene                   | 10.408 | 92   | 94340    | 5.50   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 48384    | 5.82   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.097 | 75   | 59805    | 6.03   | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 25341    | 5.20   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 34125    | 6.57   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.949 | 76   | 44369    | 5.64   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 76991    | 30.32  | ug/l   | 92       |
| 59) 2-Hexanone                | 10.985 | 43   | 60694    | 32.25  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.144 | 129  | 31754    | 4.83   | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.249 | 107  | 24755    | 5.32   | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.879 | 164  | 34655    | 5.37   | ug/l   | 92       |
| 65) Chlorobenzene             | 11.673 | 112  | 99012    | 5.48   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.744 | 131  | 33651    | 4.95   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.744 | 91   | 180579   | 5.73   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.855 | 106  | 134302   | 10.98  | ug/l   | 97       |
| 69) o-Xylene                  | 12.179 | 106  | 63118    | 5.66   | ug/l   | 99       |
| 70) Styrene                   | 12.196 | 104  | 105494   | 5.50   | ug/l   | 97       |
| 71) Bromoform                 | 12.361 | 173  | 16838    | 4.68   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.479 | 105  | 172445   | 6.02   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.291 | 43   | 36792    | 7.74   | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.732 | 83   | 26285    | 5.77   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.785 | 75   | 21464m   | 6.67   | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 36455    | 5.36   | ug/l   | 87       |
| 78) n-propylbenzene           | 12.820 | 91   | 204230   | 6.06   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.908 | 91   | 114062   | 5.96   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.961 | 105  | 144809   | 5.92   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 9842     | 6.46   | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.008 | 91   | 118658   | 5.85   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.226 | 119  | 122221   | 5.92   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 143080   | 5.96   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.402 | 105  | 170573   | 5.90   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 153971   | 5.76   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 70876    | 5.40   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.596 | 146  | 70056    | 5.28   | ug/l   | 91       |
| 89) n-Butylbenzene            | 13.843 | 91   | 150119   | 6.15   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.108 | 117  | 26827    | 5.21   | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.890 | 146  | 58920    | 5.19   | ug/l   | 94       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.508 | 75   | 4786     | 6.46   | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 15.161 | 180  | 41635    | 5.39   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.267 | 225  | 22700    | 4.69   | ug/l   | 98       |
| 95) Naphthalene               | 15.402 | 128  | 77795    | 5.98   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.596 | 180  | 35901    | 5.42   | ug/l   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD011921\  
Data File : VD068082.D  
Acq On : 19 Jan 2021 10:41  
Operator : VA/SY  
Sample : VSTDIC005  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC005

Manual Integrations  
APPROVED

MMDadoda  
1/20/2021 4:56:50 PM

Quant Time: Jan 19 12:22:46 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 19 12:20:30 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

