

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021423\  
 Data File : VD075347.D  
 Acq On : 14 Feb 2023 17:10  
 Operator : KP/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Feb 15 03:36:42 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D020723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 04:26:58 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.875  | 168  | 45818    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.781  | 114  | 73835    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.581 | 117  | 67438    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.522 | 152  | 35685    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.228  | 65    | 28493    | 53.035   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 106.060% |      |
| 35) Dibromofluoromethane    | 7.805  | 113   | 28344    | 54.747   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 109.500% |      |
| 50) Toluene-d8              | 10.269 | 98    | 102438   | 52.173   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | = 104.340% |      |
| 62) 4-Bromofluorobenzene    | 12.575 | 95    | 34546    | 53.360   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | = 106.720% |      |

|                              |       |     |        |         |        |     |
|------------------------------|-------|-----|--------|---------|--------|-----|
| Target Compounds             |       |     |        |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 1.934 | 85  | 16550  | 44.496  | ug/l   | 95  |
| 3) Chloromethane             | 2.146 | 50  | 29905  | 46.767  | ug/l   | 99  |
| 4) Vinyl Chloride            | 2.281 | 62  | 33225  | 43.588  | ug/l   | 99  |
| 5) Bromomethane              | 2.693 | 94  | 20751  | 42.548  | ug/l   | 100 |
| 6) Chloroethane              | 2.834 | 64  | 23362  | 44.427  | ug/l   | 98  |
| 7) Trichlorofluoromethane    | 3.175 | 101 | 44224  | 46.661  | ug/l   | 100 |
| 8) Diethyl Ether             | 3.587 | 74  | 12726  | 49.949  | ug/l   | 99  |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 26998  | 50.198  | ug/l   | 99  |
| 10) Methyl Iodide            | 4.164 | 142 | 30992  | 47.657  | ug/l   | 94  |
| 11) Tert butyl alcohol       | 5.058 | 59  | 7242   | 227.157 | ug/l # | 90  |
| 12) 1,1-Dichloroethene       | 3.946 | 96  | 24777  | 48.316  | ug/l   | 99  |
| 13) Acrolein                 | 3.799 | 56  | 3591   | 210.529 | ug/l   | 86  |
| 14) Allyl chloride           | 4.569 | 41  | 41585  | 48.739  | ug/l   | 91  |
| 15) Acrylonitrile            | 5.252 | 53  | 32104  | 272.724 | ug/l   | 98  |
| 16) Acetone                  | 4.022 | 43  | 38574  | 271.531 | ug/l   | 98  |
| 17) Carbon Disulfide         | 4.269 | 76  | 71661  | 45.295  | ug/l   | 99  |
| 18) Methyl Acetate           | 4.558 | 43  | 20047  | 53.267  | ug/l   | 99  |
| 19) Methyl tert-butyl Ether  | 5.316 | 73  | 61566  | 52.292  | ug/l   | 98  |
| 20) Methylene Chloride       | 4.799 | 84  | 33112  | 56.054  | ug/l   | 96  |
| 21) trans-1,2-Dichloroethene | 5.311 | 96  | 29281  | 50.458  | ug/l   | 97  |
| 22) Diisopropyl ether        | 6.210 | 45  | 88736  | 52.287  | ug/l   | 97  |
| 23) Vinyl Acetate            | 6.158 | 43  | 182574 | 313.379 | ug/l   | 95  |
| 24) 1,1-Dichloroethane       | 6.111 | 63  | 55431  | 52.389  | ug/l   | 97  |
| 25) 2-Butanone               | 7.081 | 43  | 44194  | 251.067 | ug/l   | 100 |
| 26) 2,2-Dichloropropane      | 7.075 | 77  | 46971  | 50.153  | ug/l   | 100 |
| 27) cis-1,2-Dichloroethene   | 7.081 | 96  | 32042  | 49.354  | ug/l   | 95  |
| 28) Bromochloromethane       | 7.422 | 49  | 14108  | 53.732  | ug/l   | 92  |
| 29) Tetrahydrofuran          | 7.446 | 42  | 25650  | 270.607 | ug/l   | 96  |
| 30) Chloroform               | 7.599 | 83  | 56156  | 51.565  | ug/l   | 89  |
| 31) Cyclohexane              | 7.881 | 56  | 43472  | 45.568  | ug/l   | 93  |
| 32) 1,1,1-Trichloroethane    | 7.793 | 97  | 49634  | 50.952  | ug/l   | 100 |
| 36) 1,1-Dichloropropene      | 8.010 | 75  | 41000  | 50.837  | ug/l   | 96  |
| 37) Ethyl Acetate            | 7.169 | 43  | 16150  | 45.915  | ug/l   | 97  |
| 38) Carbon Tetrachloride     | 7.993 | 117 | 40232  | 53.834  | ug/l   | 98  |
| 39) Methylcyclohexane        | 9.275 | 83  | 46255  | 49.549  | ug/l   | 97  |
| 40) Benzene                  | 8.252 | 78  | 116537 | 51.413  | ug/l   | 99  |

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 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 04:26:58 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 9436     | 44.971  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 34390    | 52.404  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.357  | 43   | 35782    | 53.240  | ug/l   | 96       |
| 44) Trichloroethene           | 9.028  | 130  | 31531    | 50.464  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 30398    | 52.805  | ug/l   | 99       |
| 46) Dibromomethane            | 9.393  | 93   | 17131    | 53.700  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.581  | 83   | 42183    | 53.130  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.381  | 41   | 17471    | 54.736  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 3041     | 999.648 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 95459    | 280.944 | ug/l   | 96       |
| 52) Toluene                   | 10.334 | 92   | 75447    | 52.845  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.557 | 75   | 38720    | 56.302  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 45219    | 54.995  | ug/l # | 91       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 22569    | 55.421  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 26634    | 56.258  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 37406    | 53.920  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 43821    | 311.953 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.922 | 43   | 68986    | 277.903 | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.075 | 129  | 28174    | 55.841  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 20980    | 53.429  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.810 | 164  | 25638    | 49.361  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.610 | 112  | 78390    | 51.544  | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 29537    | 53.344  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.687 | 91   | 148825   | 53.005  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.793 | 106  | 113561   | 106.326 | ug/l   | 99       |
| 69) o-Xylene                  | 12.122 | 106  | 52203    | 52.326  | ug/l   | 92       |
| 70) Styrene                   | 12.134 | 104  | 92365    | 54.655  | ug/l   | 99       |
| 71) Bromoform                 | 12.304 | 173  | 16620    | 55.880  | ug/l # | 92       |
| 73) Isopropylbenzene          | 12.422 | 105  | 142805   | 49.398  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.234 | 43   | 32976    | 50.762  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 25910    | 51.516  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 20540m   | 50.675  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 32421    | 49.526  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.763 | 91   | 178470   | 49.614  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 96425    | 48.870  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 121125   | 50.321  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 6912     | 55.129  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 12.951 | 91   | 102641   | 49.868  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 104190   | 50.208  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 121151   | 50.393  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 160329   | 50.363  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 133602   | 51.303  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.463 | 146  | 66326    | 50.128  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 65466    | 49.448  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.792 | 91   | 127990   | 50.343  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.057 | 117  | 26016    | 50.674  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 56619    | 49.318  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75   | 3875     | 49.673  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.104 | 180  | 35982    | 50.044  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.210 | 225  | 19832    | 52.279  | ug/l   | 98       |
| 95) Naphthalene               | 15.339 | 128  | 68184    | 50.949  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.528 | 180  | 31159    | 50.226  | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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