

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041023\  
 Data File : VD075612.D  
 Acq On : 10 Apr 2023 17:54  
 Operator : KP/SY  
 Sample : VSTDICC020  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC020

Quant Time: Apr 12 09:56:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D041023S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 12 09:55:43 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.875  | 168  | 203459   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.781  | 114  | 355699   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.581 | 117  | 332392   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152  | 160941   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.234  | 65    | 34913    | 20.918   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 41.840%# |
| 35) Dibromofluoromethane    | 7.805  | 113   | 44350    | 21.275   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 42.560%# |
| 50) Toluene-d8              | 10.269 | 98    | 157105   | 19.214   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 38.420%# |
| 62) 4-Bromofluorobenzene    | 12.575 | 95    | 47938    | 19.929   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 39.860%  |

|                              |       |     |        |         |        |     |
|------------------------------|-------|-----|--------|---------|--------|-----|
| Target Compounds             |       |     |        | Qvalue  |        |     |
| 2) Dichlorodifluoromethane   | 1.934 | 85  | 31899  | 22.192  | ug/l   | 97  |
| 3) Chloromethane             | 2.146 | 50  | 56457  | 22.587  | ug/l   | 96  |
| 4) Vinyl Chloride            | 2.281 | 62  | 76554  | 21.877  | ug/l   | 96  |
| 5) Bromomethane              | 2.675 | 94  | 57269  | 20.552  | ug/l   | 99  |
| 6) Chloroethane              | 2.834 | 64  | 54555  | 22.224  | ug/l   | 93  |
| 7) Trichlorofluoromethane    | 3.175 | 101 | 64945  | 21.756  | ug/l   | 92  |
| 8) Diethyl Ether             | 3.599 | 74  | 18594  | 20.167  | ug/l   | 64  |
| 9) 1,1,2-Trichlorotrifluo... | 3.969 | 101 | 41262  | 21.000  | ug/l   | 94  |
| 10) Methyl Iodide            | 4.158 | 142 | 45291  | 19.278  | ug/l   | 92  |
| 11) Tert butyl alcohol       | 5.058 | 59  | 8281   | 104.944 | ug/l # | 100 |
| 12) 1,1-Dichloroethene       | 3.940 | 96  | 39250  | 20.811  | ug/l   | 86  |
| 13) Acrolein                 | 3.799 | 56  | 14808  | 119.610 | ug/l   | 99  |
| 14) Allyl chloride           | 4.569 | 41  | 34545  | 20.295  | ug/l # | 79  |
| 15) Acrylonitrile            | 5.252 | 53  | 36022  | 101.955 | ug/l   | 98  |
| 16) Acetone                  | 4.022 | 43  | 31842  | 104.701 | ug/l # | 77  |
| 17) Carbon Disulfide         | 4.275 | 76  | 103992 | 21.304  | ug/l # | 94  |
| 18) Methyl Acetate           | 4.564 | 43  | 19614  | 21.369  | ug/l # | 76  |
| 19) Methyl tert-butyl Ether  | 5.316 | 73  | 79512  | 19.948  | ug/l   | 98  |
| 20) Methylene Chloride       | 4.799 | 84  | 70554  | 22.260  | ug/l # | 73  |
| 21) trans-1,2-Dichloroethene | 5.305 | 96  | 45958  | 20.644  | ug/l # | 74  |
| 22) Diisopropyl ether        | 6.222 | 45  | 86662  | 20.756  | ug/l # | 88  |
| 23) Vinyl Acetate            | 6.158 | 43  | 200927 | 102.530 | ug/l # | 84  |
| 24) 1,1-Dichloroethane       | 6.111 | 63  | 72873  | 21.135  | ug/l   | 96  |
| 25) 2-Butanone               | 7.087 | 43  | 40285  | 102.069 | ug/l # | 75  |
| 26) 2,2-Dichloropropane      | 7.075 | 77  | 66132  | 20.908  | ug/l   | 93  |
| 27) cis-1,2-Dichloroethene   | 7.081 | 96  | 52055  | 19.859  | ug/l   | 82  |
| 28) Bromochloromethane       | 7.422 | 49  | 25298  | 21.473  | ug/l # | 48  |
| 29) Tetrahydrofuran          | 7.440 | 42  | 20620  | 98.657  | ug/l # | 53  |
| 30) Chloroform               | 7.593 | 83  | 82943  | 21.145  | ug/l   | 97  |
| 31) Cyclohexane              | 7.875 | 56  | 48364  | 19.917  | ug/l # | 67  |
| 32) 1,1,1-Trichloroethane    | 7.793 | 97  | 67594  | 20.707  | ug/l   | 95  |
| 36) 1,1-Dichloropropene      | 8.010 | 75  | 55372  | 20.799  | ug/l   | 95  |
| 37) Ethyl Acetate            | 7.169 | 43  | 18096  | 22.608  | ug/l # | 83  |
| 38) Carbon Tetrachloride     | 7.993 | 117 | 54225  | 21.239  | ug/l   | 92  |
| 39) Methylcyclohexane        | 9.275 | 83  | 60564  | 19.104  | ug/l   | 93  |
| 40) Benzene                  | 8.252 | 78  | 182802 | 21.309  | ug/l   | 96  |

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 Acq On : 10 Apr 2023 17:54  
 Operator : KP/SY  
 Sample : VSTDICC020  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC020

Quant Time: Apr 12 09:56:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D041023S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 12 09:55:43 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 9835     | 22.437  | ug/l # | 69       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 43867    | 22.008  | ug/l   | 90       |
| 43) Isopropyl Acetate         | 8.357  | 43   | 32137    | 21.032  | ug/l # | 75       |
| 44) Trichloroethene           | 9.028  | 130  | 49342    | 19.637  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 41942    | 20.958  | ug/l   | 90       |
| 46) Dibromomethane            | 9.393  | 93   | 25559    | 20.570  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.587  | 83   | 62039    | 20.647  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.381  | 41   | 14078    | 20.330  | ug/l # | 61       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 4477     | 397.481 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 82753    | 100.606 | ug/l # | 80       |
| 52) Toluene                   | 10.334 | 92   | 115149   | 19.874  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 55042    | 20.209  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 66920    | 20.208  | ug/l # | 77       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 37216    | 20.311  | ug/l   | 91       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 32751    | 18.544  | ug/l # | 67       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 56497    | 20.478  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 85547    | 100.184 | ug/l # | 88       |
| 59) 2-Hexanone                | 10.922 | 43   | 58488    | 100.933 | ug/l   | 75       |
| 60) Dibromochloromethane      | 11.075 | 129  | 44892    | 20.520  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 34448    | 19.670  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.810 | 164  | 40247    | 20.131  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.610 | 112  | 127990   | 19.837  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 44794    | 19.632  | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.687 | 91   | 209239   | 19.655  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.793 | 106  | 172274   | 39.290  | ug/l   | 93       |
| 69) o-Xylene                  | 12.122 | 106  | 78047    | 19.773  | ug/l   | 91       |
| 70) Styrene                   | 12.140 | 104  | 135786   | 20.059  | ug/l   | 95       |
| 71) Bromoform                 | 12.298 | 173  | 23559    | 19.977  | ug/l # | 93       |
| 73) Isopropylbenzene          | 12.422 | 105  | 195477   | 19.573  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.234 | 43   | 29091    | 20.769  | ug/l # | 75       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 39983    | 21.403  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 22232m   | 17.651  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 49913    | 19.800  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.763 | 91   | 242511   | 20.196  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 136966   | 20.623  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 166819   | 20.395  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.475 | 75   | 11923    | 21.695  | ug/l # | 69       |
| 82) 4-Chlorotoluene           | 12.951 | 91   | 147724   | 21.442  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 137956   | 19.425  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 168113   | 20.353  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 220165   | 20.286  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 178532   | 19.569  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 104909   | 19.929  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 103368   | 19.855  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.787 | 91   | 164986   | 19.891  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.057 | 117  | 36601    | 21.209  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 90160    | 19.870  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75   | 5031     | 21.529  | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 47888    | 19.898  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 23254    | 20.399  | ug/l   | 96       |
| 95) Naphthalene               | 15.334 | 128  | 84799    | 18.557  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 43084    | 20.206  | ug/l   | 94       |

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Operator : KP/SY  
Sample : VSTDICC020  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC020

Quant Time: Apr 12 09:56:00 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D041023S.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 12 09:55:43 2023  
Response via : Initial Calibration

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

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

