

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022624\  
 Data File : VD078552.D  
 Acq On : 26 Feb 2024 17:09  
 Operator : RP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Feb 27 03:27:56 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 14 01:16:20 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/27/2024  
 Supervised By :Semsettin Yesilyurt 02/27/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 132679     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 224426     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 214922     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 116034     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 68519      | 47.762   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 95.520%  |        |          |
| 35) Dibromofluoromethane     | 7.805          | 113  | 77362      | 54.266   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 108.540% |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 289552     | 50.774   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 101.540% |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 90008      | 54.237   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 108.480% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.940          | 85   | 57235      | 43.782   | ug/l   | 98       |
| 3) Chloromethane             | 2.158          | 50   | 111783     | 46.529   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.287          | 62   | 166695     | 45.471   | ug/l   | 99       |
| 5) Bromomethane              | 2.687          | 94   | 104828     | 41.427   | ug/l   | 99       |
| 6) Chloroethane              | 2.834          | 64   | 127339     | 47.635   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.170          | 101  | 109757     | 44.383   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.599          | 74   | 35153      | 49.352   | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 3.964          | 101  | 65924      | 42.257   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.164          | 142  | 63281      | 45.288   | ug/l   | 90       |
| 11) Tert butyl alcohol       | 5.069          | 59   | 18169      | 233.299  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 62844      | 43.449   | ug/l   | 92       |
| 13) Acrolein                 | 3.805          | 56   | 13669      | 103.138  | ug/l   | 96       |
| 14) Allyl chloride           | 4.558          | 41   | 76826      | 42.996   | ug/l   | 92       |
| 15) Acrylonitrile            | 5.252          | 53   | 71919      | 235.860  | ug/l   | 99       |
| 16) Acetone                  | 4.022          | 43   | 62185      | 221.700  | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.269          | 76   | 182100     | 37.416   | ug/l   | 96       |
| 18) Methyl Acetate           | 4.569          | 43   | 62244      | 58.926   | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.322          | 73   | 154615     | 50.314   | ug/l   | 98       |
| 20) Methylene Chloride       | 4.799          | 84   | 95622      | 59.423   | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 5.311          | 96   | 79340      | 46.629   | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.216          | 45   | 184635     | 46.882   | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.152          | 43   | 350002     | 214.872  | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 6.111          | 63   | 128724     | 46.140   | ug/l   | 99       |
| 25) 2-Butanone               | 7.081          | 43   | 87792      | 240.972  | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 106603     | 45.581   | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.075          | 96   | 89252      | 47.809   | ug/l   | 96       |
| 28) Bromochloromethane       | 7.428          | 49   | 52466      | 47.480   | ug/l   | 90       |
| 29) Tetrahydrofuran          | 7.446          | 42   | 51218      | 240.070  | ug/l   | 94       |
| 30) Chloroform               | 7.599          | 83   | 141100     | 47.801   | ug/l   | 97       |
| 31) Cyclohexane              | 7.875          | 56   | 92073      | 37.941   | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.787          | 97   | 116497     | 46.290   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.005          | 75   | 100411     | 45.340   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.169          | 43   | 36022      | 46.400   | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 101843     | 46.436   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.275          | 83   | 112921     | 42.950   | ug/l   | 95       |
| 40) Benzene                  | 8.252          | 78   | 313931     | 49.042   | ug/l   | 98       |

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Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.405  | 41   | 19926    | 49.318   | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 80659    | 48.698   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 71087    | 49.450   | ug/l # | 80       |
| 44) Trichloroethene           | 9.028  | 130  | 82374    | 50.441   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 77311    | 49.225   | ug/l   | 96       |
| 46) Dibromomethane            | 9.393  | 93   | 44273    | 50.116   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.581  | 83   | 111383   | 50.905   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.381  | 41   | 36966    | 48.468   | ug/l # | 90       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 10224    | 1068.685 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 186444   | 244.360  | ug/l   | 96       |
| 52) Toluene                   | 10.334 | 92   | 203373   | 50.240   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 100141   | 50.158   | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 122112   | 50.439   | ug/l # | 92       |
| 55) 1,1,2-Trichloroethane     | 10.728 | 97   | 63415    | 53.305   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 50501    | 45.898   | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 101872   | 50.339   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 153155   | 236.311  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.922 | 43   | 137608   | 239.988  | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.075 | 129  | 76563    | 53.489   | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.175 | 107  | 60241    | 53.937   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.810 | 164  | 65373    | 48.157   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.604 | 112  | 218460   | 50.560   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 83651    | 52.681   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.681 | 91   | 383335   | 49.515   | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.793 | 106  | 303921   | 100.643  | ug/l   | 93       |
| 69) o-Xylene                  | 12.122 | 106  | 142034   | 51.541   | ug/l   | 97       |
| 70) Styrene                   | 12.134 | 104  | 218802   | 48.649   | ug/l   | 97       |
| 71) Bromoform                 | 12.298 | 173  | 46137    | 55.204   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.422 | 105  | 365369   | 46.893   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.234 | 43   | 64171    | 43.534   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 72234    | 46.736   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 45660m   | 46.351   | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 92235    | 50.371   | ug/l   | 93       |
| 78) n-propylbenzene           | 12.763 | 91   | 451442   | 46.494   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 241256   | 46.390   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 310391   | 47.975   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 21927    | 46.210   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 260347   | 46.612   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.163 | 119  | 269339   | 49.362   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 315371   | 48.029   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 387756   | 45.823   | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 350490   | 48.629   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 190040   | 48.626   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 186192   | 48.487   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.787 | 91   | 319400   | 45.977   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.051 | 117  | 69132    | 46.668   | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.828 | 146  | 166942   | 50.868   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 10181    | 50.307   | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 100602   | 52.159   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 50937    | 50.596   | ug/l   | 98       |
| 95) Naphthalene               | 15.334 | 128  | 195562   | 54.667   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 90341    | 55.268   | 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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