

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021324\  
 Data File : VD078405.D  
 Acq On : 13 Feb 2024 16:23  
 Operator : RP/MD  
 Sample : VSTDICV050  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD021324

Quant Time: Feb 14 01:30:03 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 02/14/2024  
 Supervised By :Semsettin Yesilyurt 02/14/2024

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Pentafluorobenzene        | 7.881          | 168  | 162015     | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 285000     | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 260905     | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.522         | 152  | 129431     | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 74511      | 42.534  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 85.060% |       |          |
| 35) Dibromofluoromethane     | 7.810          | 113  | 80519      | 44.476  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 88.960% |       |          |
| 50) Toluene-d8               | 10.269         | 98   | 319229     | 44.081  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 88.160% |       |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 89508      | 42.472  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 84.940% |       |          |
| Target Compounds             |                |      |            |         |       |          |
|                              |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.940          | 85   | 84501      | 52.935  | ug/l  | 94       |
| 3) Chloromethane             | 2.152          | 50   | 146420     | 49.911  | ug/l  | 100      |
| 4) Vinyl Chloride            | 2.287          | 62   | 216670     | 48.401  | ug/l  | 99       |
| 5) Bromomethane              | 2.693          | 94   | 146430     | 47.389  | ug/l  | 99       |
| 6) Chloroethane              | 2.840          | 64   | 151372     | 46.372  | ug/l  | 97       |
| 7) Trichlorofluoromethane    | 3.175          | 101  | 149341     | 49.454  | ug/l  | 98       |
| 8) Diethyl Ether             | 3.599          | 74   | 42005      | 48.293  | ug/l  | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 3.969          | 101  | 89682      | 47.076  | ug/l  | 95       |
| 10) Methyl Iodide            | 4.169          | 142  | 81673      | 47.867  | ug/l  | 91       |
| 11) Tert butyl alcohol       | 5.063          | 59   | 23501      | 247.466 | ug/l  | # 89     |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 86567      | 49.014  | ug/l  | 90       |
| 13) Acrolein                 | 3.799          | 56   | 35170      | 217.321 | ug/l  | 95       |
| 14) Allyl chloride           | 4.564          | 41   | 105709     | 48.448  | ug/l  | 91       |
| 15) Acrylonitrile            | 5.258          | 53   | 88491      | 237.660 | ug/l  | 98       |
| 16) Acetone                  | 4.028          | 43   | 83737      | 248.160 | ug/l  | 87       |
| 17) Carbon Disulfide         | 4.275          | 76   | 278427     | 46.849  | ug/l  | 100      |
| 18) Methyl Acetate           | 4.569          | 43   | 69718      | 54.489  | ug/l  | 91       |
| 19) Methyl tert-butyl Ether  | 5.322          | 73   | 182153     | 48.542  | ug/l  | 98       |
| 20) Methylene Chloride       | 4.805          | 84   | 98363      | 49.539  | ug/l  | # 88     |
| 21) trans-1,2-Dichloroethene | 5.322          | 96   | 100875     | 48.550  | ug/l  | 94       |
| 22) Diisopropyl ether        | 6.216          | 45   | 239536     | 49.810  | ug/l  | 94       |
| 23) Vinyl Acetate            | 6.158          | 43   | 456101m    | 230.304 | ug/l  |          |
| 24) 1,1-Dichloroethane       | 6.110          | 63   | 165745     | 48.652  | ug/l  | 95       |
| 25) 2-Butanone               | 7.087          | 43   | 110156     | 248.070 | ug/l  | 91       |
| 26) 2,2-Dichloropropane      | 7.081          | 77   | 138205     | 48.393  | ug/l  | 97       |
| 27) cis-1,2-Dichloroethene   | 7.087          | 96   | 110991     | 48.689  | ug/l  | 95       |
| 28) Bromochloromethane       | 7.428          | 49   | 70406      | 52.179  | ug/l  | # 78     |
| 29) Tetrahydrofuran          | 7.446          | 42   | 65058      | 249.726 | ug/l  | 87       |
| 30) Chloroform               | 7.593          | 83   | 168751     | 46.817  | ug/l  | 94       |
| 31) Cyclohexane              | 7.881          | 56   | 142099     | 47.953  | ug/l  | 92       |
| 32) 1,1,1-Trichloroethane    | 7.799          | 97   | 147292     | 47.929  | ug/l  | 100      |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 135333     | 48.120  | ug/l  | 98       |
| 37) Ethyl Acetate            | 7.169          | 43   | 44367      | 45.003  | ug/l  | 98       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 130128     | 46.722  | ug/l  | 98       |
| 39) Methylcyclohexane        | 9.275          | 83   | 168087     | 50.344  | ug/l  | 90       |
| 40) Benzene                  | 8.252          | 78   | 392429     | 48.275  | ug/l  | 100      |

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 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

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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.410  | 41   | 24013    | 46.802  | ug/l # | 92       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 96497    | 45.877  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 87632    | 48.002  | ug/l   | 96       |
| 44) Trichloroethene           | 9.028  | 130  | 99179    | 47.824  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 94945    | 47.604  | ug/l   | 96       |
| 46) Dibromomethane            | 9.393  | 93   | 51610    | 46.005  | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.587  | 83   | 128442   | 46.225  | ug/l   | 93       |
| 48) Methyl methacrylate       | 9.381  | 41   | 49247    | 50.847  | ug/l   | 84       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 12005    | 988.142 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 231068   | 238.479 | ug/l   | 93       |
| 52) Toluene                   | 10.334 | 92   | 245495   | 47.756  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.557 | 75   | 120688   | 47.601  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 148959   | 48.452  | ug/l # | 91       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 70607    | 46.736  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 59844    | 42.830  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 118365   | 46.058  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 187507   | 227.824 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.922 | 43   | 169292   | 232.494 | ug/l   | 91       |
| 60) Dibromochloromethane      | 11.075 | 129  | 82662    | 45.476  | ug/l   | 92       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 66684    | 47.016  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.810 | 164  | 80709    | 48.975  | ug/l   | 93       |
| 65) Chlorobenzene             | 11.610 | 112  | 252100   | 48.063  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 91675    | 47.559  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.687 | 91   | 470886   | 50.104  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.793 | 106  | 367803   | 100.332 | ug/l   | 90       |
| 69) o-Xylene                  | 12.122 | 106  | 165916   | 49.596  | ug/l   | 91       |
| 70) Styrene                   | 12.134 | 104  | 253043   | 46.347  | ug/l   | 95       |
| 71) Bromoform                 | 12.298 | 173  | 46913    | 46.239  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.422 | 105  | 447532   | 51.493  | ug/l   | 96       |
| 74) N-amyl acetate            | 12.234 | 43   | 76467    | 46.507  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 80119    | 46.472  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 54629m   | 49.716  | ug/l   |          |
| 77) Bromobenzene              | 12.704 | 156  | 100270   | 49.091  | ug/l   | 89       |
| 78) n-propylbenzene           | 12.763 | 91   | 560214   | 51.724  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 293756   | 50.639  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 369483   | 51.198  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 25927    | 48.984  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 303853   | 48.770  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 314460   | 51.666  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 371991   | 50.788  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 480496   | 50.905  | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 420403   | 52.291  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 214711   | 49.252  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 206467   | 48.201  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.792 | 91   | 403824   | 52.112  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.057 | 117  | 80346    | 48.624  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 177470   | 48.479  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75   | 10580    | 46.867  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.104 | 180  | 108267   | 50.323  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 56617    | 50.417  | ug/l   | 98       |
| 95) Naphthalene               | 15.334 | 128  | 206314   | 51.703  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 93886    | 51.491  | ug/l   | 98       |

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Instrument :  
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Manual Integrations  
APPROVED

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

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

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