

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD020325\  
 Data File : VD080222.D  
 Acq On : 03 Feb 2025 11:48  
 Operator : RP/MD  
 Sample : VSTDICCC050  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025  
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 04 05:32:48 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D020325S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 04 05:30:02 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|------------------------------|----------------|------|------------|----------|-------|----------|
| -----                        |                |      |            |          |       |          |
| Internal Standards           |                |      |            |          |       |          |
| 1) Pentafluorobenzene        | 7.881          | 168  | 129468     | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 212040     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 219380     | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 108230     | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.234          | 65   | 81583      | 48.443   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 96.880%  |       |          |
| 35) Dibromofluoromethane     | 7.810          | 113  | 73531      | 48.930   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 97.860%  |       |          |
| 50) Toluene-d8               | 10.269         | 98   | 295092     | 52.950   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 105.900% |       |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 93259      | 52.154   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 104.300% |       |          |
| Target Compounds             |                |      |            |          |       |          |
|                              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 61985      | 47.737   | ug/l  | 100      |
| 3) Chloromethane             | 2.152          | 50   | 128023     | 47.469   | ug/l  | 100      |
| 4) Vinyl Chloride            | 2.287          | 62   | 154907     | 47.478   | ug/l  | 100      |
| 5) Bromomethane              | 2.693          | 94   | 108247     | 55.906   | ug/l  | 100      |
| 6) Chloroethane              | 2.834          | 64   | 104576     | 48.122   | ug/l  | 100      |
| 7) Trichlorofluoromethane    | 3.175          | 101  | 126817     | 46.903   | ug/l  | 100      |
| 8) Diethyl Ether             | 3.599          | 74   | 38388      | 51.898   | ug/l  | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 3.969          | 101  | 70880      | 45.287   | ug/l  | 100      |
| 10) Methyl Iodide            | 4.164          | 142  | 69937      | 51.932   | ug/l  | 100      |
| 11) Tert butyl alcohol       | 5.058          | 59   | 23203      | 249.418  | ug/l  | 100      |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 69572      | 46.926   | ug/l  | 100      |
| 13) Acrolein                 | 3.805          | 56   | 43449      | 247.705  | ug/l  | 100      |
| 14) Allyl chloride           | 4.569          | 41   | 115481     | 50.543   | ug/l  | 100      |
| 15) Acrylonitrile            | 5.263          | 53   | 96898      | 272.662  | ug/l  | 100      |
| 16) Acetone                  | 4.028          | 43   | 61005      | 224.764  | ug/l  | 100      |
| 17) Carbon Disulfide         | 4.275          | 76   | 249934     | 46.741   | ug/l  | 100      |
| 18) Methyl Acetate           | 4.569          | 43   | 45653      | 49.850   | ug/l  | 100      |
| 19) Methyl tert-butyl Ether  | 5.322          | 73   | 177789     | 54.469   | ug/l  | 100      |
| 20) Methylene Chloride       | 4.805          | 84   | 87793      | 47.666   | ug/l  | 100      |
| 21) trans-1,2-Dichloroethene | 5.316          | 96   | 89249      | 52.988   | ug/l  | 100      |
| 22) Diisopropyl ether        | 6.222          | 45   | 268517     | 56.471   | ug/l  | 100      |
| 23) Vinyl Acetate            | 6.158          | 43   | 780008     | 284.136  | ug/l  | 100      |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 161364     | 51.768   | ug/l  | 100      |
| 25) 2-Butanone               | 7.081          | 43   | 107570     | 255.516  | ug/l  | 100      |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 129993     | 48.082   | ug/l  | 100      |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 94480      | 49.652   | ug/l  | 100      |
| 28) Bromochloromethane       | 7.428          | 49   | 72705      | 51.113   | ug/l  | 100      |
| 29) Tetrahydrofuran          | 7.452          | 42   | 71625      | 259.758  | ug/l  | 100      |
| 30) Chloroform               | 7.599          | 83   | 152799     | 47.947   | ug/l  | 100      |
| 31) Cyclohexane              | 7.881          | 56   | 116074     | 46.518   | ug/l  | 100      |
| 32) 1,1,1-Trichloroethane    | 7.799          | 97   | 125355     | 47.016   | ug/l  | 100      |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 108235     | 50.285   | ug/l  | 100      |
| 37) Ethyl Acetate            | 7.175          | 43   | 53361      | 50.556   | ug/l  | 100      |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 112153     | 49.884   | ug/l  | 100      |
| 39) Methylcyclohexane        | 9.275          | 83   | 115039     | 49.194   | ug/l  | 100      |
| 40) Benzene                  | 8.252          | 78   | 349631     | 51.821   | ug/l  | 100      |

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 ALS Vial : 5 Sample Multiplier: 1

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 ClientSampleId :  
 VSTDICCC050

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D020325S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 04 05:30:02 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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 Supervised By :Semsettin Yesilyurt 02/04/2025

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.405  | 41   | 29085    | 49.989   | ug/l   | 100      |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 96229    | 50.121   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.363  | 43   | 93837    | 50.094   | ug/l   | 100      |
| 44) Trichloroethene           | 9.028  | 130  | 76757    | 49.247   | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 85890    | 50.612   | ug/l   | 100      |
| 46) Dibromomethane            | 9.393  | 93   | 49252    | 52.093   | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.587  | 83   | 120021   | 50.339   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.381  | 41   | 45927    | 52.982   | ug/l   | 100      |
| 49) 1,4-Dioxane               | 9.387  | 88   | 11678    | 1135.403 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 258081   | 272.466  | ug/l   | 100      |
| 52) Toluene                   | 10.334 | 92   | 200571   | 50.824   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 99646    | 49.026   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 134885   | 54.557   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 58023    | 47.231   | ug/l   | 100      |
| 56) Ethyl methacrylate        | 10.599 | 69   | 71751    | 51.187   | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 98225    | 48.341   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 177557   | 296.782  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.922 | 43   | 156154   | 251.231  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.075 | 129  | 74028    | 48.888   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 53805    | 48.091   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.810 | 164  | 63656    | 41.537   | ug/l   | 100      |
| 65) Chlorobenzene             | 11.604 | 112  | 241490   | 48.023   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 82727    | 47.026   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.681 | 91   | 409063   | 48.901   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.793 | 106  | 300763   | 92.613   | ug/l   | 100      |
| 69) o-Xylene                  | 12.122 | 106  | 138458   | 46.754   | ug/l   | 100      |
| 70) Styrene                   | 12.134 | 104  | 251582   | 47.726   | ug/l   | 100      |
| 71) Bromoform                 | 12.298 | 173  | 51308    | 49.476   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.422 | 105  | 359494   | 49.107   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.234 | 43   | 93129    | 48.396   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 72965    | 47.898   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 48938m   | 44.703   | ug/l   | 100      |
| 77) Bromobenzene              | 12.698 | 156  | 89598    | 47.449   | ug/l   | 100      |
| 78) n-propylbenzene           | 12.763 | 91   | 474841   | 50.946   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.845 | 91   | 261636   | 49.411   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 303348   | 49.548   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 26362    | 49.240   | ug/l   | 100      |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 273595   | 48.621   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.163 | 119  | 236633   | 47.278   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 334353   | 53.654   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.345 | 105  | 370228   | 48.379   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 314858   | 48.184   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 174781   | 46.994   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146  | 174821   | 46.441   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.787 | 91   | 298883   | 47.069   | ug/l   | 100      |
| 90) Hexachloroethane          | 14.051 | 117  | 67522    | 46.494   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.828 | 146  | 160006   | 48.824   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.439 | 75   | 12721    | 52.488   | ug/l   | 100      |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 107294   | 51.362   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 55962    | 49.464   | ug/l   | 100      |
| 95) Naphthalene               | 15.334 | 128  | 196562   | 53.309   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 98445    | 52.220   | ug/l   | 100      |

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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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