

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD031224\  
 Data File : VD078640.D  
 Acq On : 12 Mar 2024 16:57  
 Operator : RP/MD  
 Sample : VSTDCCC050  
 Misc : 5.45G/5ml/MSVOA\_D/SOIL/A  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 03/13/2024  
 Supervised By :Semsettin Yesilyurt 03/13/2024

Quant Time: Mar 13 03:05:53 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D030124S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 02 03:50:17 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 113582              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 197315              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 190305              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 104374              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 57326               | 50.915  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 101.820% |         |        |          |
| 35) Dibromofluoromethane     | 7.805          | 113  | 65919               | 51.358  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 102.720% |         |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 248637              | 49.852  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 99.700%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 74265               | 52.133  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 104.260% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 39750               | 44.345  | ug/l   | 93       |
| 3) Chloromethane             | 2.152          | 50   | 72359               | 44.665  | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.287          | 62   | 106489              | 38.142  | ug/l   | 97       |
| 5) Bromomethane              | 2.693          | 94   | 103426              | 46.383  | ug/l   | 99       |
| 6) Chloroethane              | 2.840          | 64   | 91187               | 44.067  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.181          | 101  | 85278               | 45.173  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.593          | 74   | 28407               | 53.588  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.970          | 101  | 54749               | 46.015  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.170          | 142  | 72053               | 57.872  | ug/l   | 91       |
| 11) Tert butyl alcohol       | 5.046          | 59   | 12661               | 238.716 | ug/l # | 73       |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 53986               | 48.603  | ug/l # | 82       |
| 13) Acrolein                 | 3.799          | 56   | 22150               | 198.366 | ug/l   | 96       |
| 14) Allyl chloride           | 4.564          | 41   | 65203               | 51.539  | ug/l   | 93       |
| 15) Acrylonitrile            | 5.246          | 53   | 61872               | 283.107 | ug/l   | 99       |
| 16) Acetone                  | 4.022          | 43   | 44065               | 204.282 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.275          | 76   | 168557              | 45.548  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.564          | 43   | 28413               | 69.590  | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.316          | 73   | 126496              | 56.011  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.805          | 84   | 74102               | 50.241  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.311          | 96   | 69420               | 52.015  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.222          | 45   | 160401              | 56.550  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.158          | 43   | 465361              | 276.240 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.111          | 63   | 114425              | 53.398  | ug/l   | 97       |
| 25) 2-Butanone               | 7.081          | 43   | 65109               | 239.286 | ug/l   | 89       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 85505               | 47.232  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 79563               | 54.444  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.422          | 49   | 47651               | 59.523  | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.452          | 42   | 43038               | 284.703 | ug/l   | 91       |
| 30) Chloroform               | 7.599          | 83   | 127611              | 55.153  | ug/l   | 95       |
| 31) Cyclohexane              | 7.875          | 56   | 78488               | 44.538  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 103215              | 52.001  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 86378               | 48.633  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.163          | 43   | 28093               | 48.816  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 88457               | 47.616  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.275          | 83   | 96272               | 46.182  | ug/l   | 96       |
| 40) Benzene                  | 8.252          | 78   | 279255              | 53.045  | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.45G/5ml/MSVOA\_D/SOIL/A  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
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Reviewed By :Mahesh Dadoda 03/13/2024  
 Supervised By :Semsettin Yesilyurt 03/13/2024

Quant Time: Mar 13 03:05:53 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D030124S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 02 03:50:17 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.405  | 41   | 18639    | 60.428  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 70930    | 53.108  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.358  | 43   | 56077    | 50.826  | ug/l   | 97       |
| 44) Trichloroethene           | 9.028  | 130  | 72275    | 50.029  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.305  | 63   | 67632    | 53.479  | ug/l   | 99       |
| 46) Dibromomethane            | 9.393  | 93   | 40048    | 54.932  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.581  | 83   | 98592    | 54.845  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.381  | 41   | 25326    | 50.673  | ug/l # | 90       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 7570     | 946.075 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 157734   | 276.980 | ug/l   | 93       |
| 52) Toluene                   | 10.334 | 92   | 182362   | 53.986  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.552 | 75   | 87604    | 52.678  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 109056   | 54.771  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 55845    | 54.400  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 57381    | 55.769  | ug/l # | 93       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 88847    | 53.408  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 123442   | 276.838 | ug/l   | 97       |
| 59) 2-Hexanone                | 10.922 | 43   | 106779   | 252.795 | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.075 | 129  | 69236    | 55.856  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 53278    | 56.550  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.810 | 164  | 59684    | 49.845  | ug/l   | 85       |
| 65) Chlorobenzene             | 11.604 | 112  | 196794   | 52.512  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 75059    | 53.800  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.681 | 91   | 340286   | 52.405  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.793 | 106  | 279411   | 106.362 | ug/l   | 96       |
| 69) o-Xylene                  | 12.122 | 106  | 131353   | 55.117  | ug/l   | 96       |
| 70) Styrene                   | 12.134 | 104  | 230798   | 55.872  | ug/l   | 99       |
| 71) Bromoform                 | 12.299 | 173  | 41291    | 55.633  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.422 | 105  | 324161   | 48.995  | ug/l   | 96       |
| 74) N-amyl acetate            | 12.234 | 43   | 56277    | 50.536  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 62794    | 49.543  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 39644m   | 49.732  | ug/l   |          |
| 77) Bromobenzene              | 12.704 | 156  | 81060    | 50.659  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.763 | 91   | 399296   | 49.339  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 216013   | 49.740  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 272714   | 50.654  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 19683    | 52.851  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 12.946 | 91   | 233532   | 50.458  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 234421   | 50.568  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 279897   | 50.864  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 351803   | 48.645  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 306288   | 50.309  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 175195   | 51.242  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 168619   | 49.226  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.787 | 91   | 274091   | 48.175  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.051 | 117  | 60815    | 49.127  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 151171   | 52.053  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75   | 8096     | 47.921  | ug/l   | 100      |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 82307    | 47.860  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 44904    | 47.456  | ug/l   | 98       |
| 95) Naphthalene               | 15.334 | 128  | 155977   | 51.328  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 74458    | 48.751  | ug/l   | 98       |

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ALS Vial : 9 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 03/13/2024  
Supervised By :Semsettin Yesilyurt 03/13/2024

Quant Time: Mar 13 03:05:53 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D030124S.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 02 03:50:17 2024  
Response via : Initial Calibration

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

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

