

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022124\  
 Data File : VD078495.D  
 Acq On : 21 Feb 2024 13:27  
 Operator : RP/MD  
 Sample : VD0221SBSD01  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0221SBSD01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 02/22/2024  
 Supervised By :Semsettin Yesilyurt 02/22/2024

Quant Time: Feb 22 00:02:40 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

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.881          | 168  | 140663     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 241209     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.587         | 117  | 221052     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 111257     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.234          | 65   | 69939      | 45.985   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 91.960%  |        |          |
| 35) Dibromofluoromethane     | 7.810          | 113  | 81115      | 52.940   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 105.880% |        |          |
| 50) Toluene-d8               | 10.275         | 98   | 322003     | 52.536   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 105.080% |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 88400      | 49.562   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 99.120%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.940          | 85   | 32917      | 23.751   | ug/l   | 99       |
| 3) Chloromethane             | 2.158          | 50   | 52809      | 20.734   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.293          | 62   | 78458      | 20.187   | ug/l   | 96       |
| 5) Bromomethane              | 2.693          | 94   | 62431      | 23.272   | ug/l   | 95       |
| 6) Chloroethane              | 2.840          | 64   | 59368      | 20.948   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.175          | 101  | 56769      | 21.653   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.599          | 74   | 15101      | 19.997   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.969          | 101  | 36134      | 21.847   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.169          | 142  | 34274      | 23.136   | ug/l   | 93       |
| 11) Tert butyl alcohol       | 5.064          | 59   | 6724       | 77.676   | ug/l # | 86       |
| 12) 1,1-Dichloroethene       | 3.946          | 96   | 32710      | 21.332   | ug/l   | 92       |
| 13) Acrolein                 | 3.811          | 56   | 10866      | 77.335   | ug/l   | 99       |
| 14) Allyl chloride           | 4.569          | 41   | 37676      | 19.889   | ug/l   | 92       |
| 15) Acrylonitrile            | 5.264          | 53   | 28847      | 89.235   | ug/l   | 97       |
| 16) Acetone                  | 4.028          | 43   | 26227      | 71.078   | ug/l # | 83       |
| 17) Carbon Disulfide         | 4.281          | 76   | 110165     | 21.351   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.569          | 43   | 10613      | 12.990   | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.322          | 73   | 61172      | 18.776   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.805          | 84   | 43103      | 23.372   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.322          | 96   | 37741      | 20.922   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.222          | 45   | 83034      | 19.887   | ug/l # | 96       |
| 23) Vinyl Acetate            | 6.158          | 43   | 205457m    | 112.347  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 61568      | 20.816   | ug/l   | 94       |
| 25) 2-Butanone               | 7.087          | 43   | 34660      | 79.222   | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 7.087          | 77   | 50305      | 20.288   | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.087          | 96   | 40428      | 20.427   | ug/l   | 93       |
| 28) Bromochloromethane       | 7.434          | 49   | 22504      | 19.210   | ug/l   | 88       |
| 29) Tetrahydrofuran          | 7.446          | 42   | 20221      | 89.401   | ug/l   | 90       |
| 30) Chloroform               | 7.599          | 83   | 63591      | 20.320   | ug/l   | 99       |
| 31) Cyclohexane              | 7.881          | 56   | 52508      | 20.409   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 58730      | 22.012   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 49913      | 20.970   | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.175          | 43   | 14940      | 17.905   | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 51528      | 21.860   | ug/l   | 89       |
| 39) Methylcyclohexane        | 9.275          | 83   | 55647      | 19.693   | ug/l   | 97       |
| 40) Benzene                  | 8.257          | 78   | 144046     | 20.937   | ug/l   | 92       |

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Instrument :  
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 ClientSampleId :  
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Quant Time: Feb 22 00:02:40 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

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 8319     | 19.158  | ug/l # | 88       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 35492    | 19.937  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 27675    | 17.912  | ug/l # | 79       |
| 44) Trichloroethene           | 9.034  | 130  | 38811    | 22.112  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.310  | 63   | 34498    | 20.437  | ug/l   | 95       |
| 46) Dibromomethane            | 9.399  | 93   | 19116    | 20.133  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.587  | 83   | 49619    | 21.099  | ug/l   | 93       |
| 48) Methyl methacrylate       | 9.381  | 41   | 12852    | 15.679  | ug/l   | 83       |
| 49) 1,4-Dioxane               | 9.399  | 88   | 3856     | 375.012 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.163 | 43   | 72555    | 88.477  | ug/l   | 90       |
| 52) Toluene                   | 10.334 | 92   | 91561    | 21.045  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.557 | 75   | 43180    | 20.123  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 53271    | 20.473  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 26148    | 20.450  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 25418    | 21.494  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 44016    | 20.237  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.875  | 63   | 57059    | 81.914  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.922 | 43   | 53684    | 87.111  | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.075 | 129  | 30448    | 19.792  | ug/l   | 91       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 26000    | 21.660  | ug/l   | 93       |
| 64) Tetrachloroethene         | 10.810 | 164  | 29569    | 21.178  | ug/l   | 88       |
| 65) Chlorobenzene             | 11.610 | 112  | 96744    | 21.770  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 32077    | 19.641  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.687 | 91   | 170527   | 21.416  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.793 | 106  | 130657   | 42.067  | ug/l   | 88       |
| 69) o-Xylene                  | 12.122 | 106  | 60000    | 21.169  | ug/l   | 90       |
| 70) Styrene                   | 12.134 | 104  | 106529   | 23.029  | ug/l   | 99       |
| 71) Bromoform                 | 12.298 | 173  | 18049    | 20.997  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.422 | 105  | 159862   | 21.398  | ug/l   | 95       |
| 74) N-amyl acetate            | 12.234 | 43   | 25854    | 18.293  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 28271    | 19.077  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 15459m   | 16.367  | ug/l   |          |
| 77) Bromobenzene              | 12.704 | 156  | 37933    | 21.605  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.763 | 91   | 201146   | 21.605  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 105156   | 21.088  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 135216   | 21.797  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 8857     | 19.467  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.951 | 91   | 112543   | 21.014  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 111161   | 21.247  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 131349   | 20.863  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 175311   | 21.607  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 145408   | 21.041  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.463 | 146  | 77913    | 20.792  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 80029    | 21.735  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.787 | 91   | 136693   | 20.521  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.057 | 117  | 29708    | 20.915  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 66061    | 20.994  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 3789     | 19.526  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 37876    | 20.481  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 20916    | 21.668  | ug/l   | 97       |
| 95) Naphthalene               | 15.334 | 128  | 64191    | 18.714  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 32709    | 20.869  | ug/l   | 99       |

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Quant Time: Feb 22 00:02:40 2024  
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Quant Title : SW846 8260  
QLast Update : Wed Feb 14 01:16:20 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

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