

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122024\  
 Data File : VY020664.D  
 Acq On : 20 Dec 2024 09:09  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Dec 20 18:07:52 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y121724S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 18 05:27:13 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024  
 Supervised By :Mahesh Dadoda 12/24/2024

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.713          | 168  | 162547     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 240673     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 212145     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.353         | 152  | 119359     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.067          | 65   | 71807      | 40.336  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 80.680% |        |          |
| 35) Dibromofluoromethane     | 7.640          | 113  | 73716      | 43.459  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 86.920% |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 259216     | 43.661  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 87.320% |        |          |
| 62) 4-Bromofluorobenzene     | 12.408         | 95   | 97623      | 42.036  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 29 - 146 |      | Recovery = | 84.080% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 101237     | 49.863  | ug/l   | 99       |
| 3) Chloromethane             | 2.074          | 50   | 65890      | 43.800  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.208          | 62   | 60443      | 43.169  | ug/l   | 100      |
| 5) Bromomethane              | 2.605          | 94   | 35571      | 39.522  | ug/l   | 96       |
| 6) Chloroethane              | 2.739          | 64   | 34884      | 40.318  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.068          | 101  | 142498     | 48.639  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.464          | 74   | 46033      | 44.802  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 3.824          | 101  | 110942     | 52.831  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.013          | 142  | 131655     | 56.311  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.860          | 59   | 40751      | 212.136 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 104993     | 51.529  | ug/l   | 97       |
| 13) Acrolein                 | 3.659          | 56   | 10168      | 120.792 | ug/l   | 96       |
| 14) Allyl chloride           | 4.391          | 41   | 192684     | 53.969  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.068          | 53   | 125271     | 254.850 | ug/l   | 99       |
| 16) Acetone                  | 3.873          | 43   | 90623      | 256.402 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.116          | 76   | 360666     | 54.380  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.391          | 43   | 65339      | 53.944  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.122          | 73   | 272592     | 51.833  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.622          | 84   | 113838     | 51.431  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.122          | 96   | 120568     | 52.751  | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.025          | 45   | 385510     | 53.195  | ug/l   | 97       |
| 23) Vinyl Acetate            | 5.964          | 43   | 1068233    | 260.253 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.927          | 63   | 224983     | 52.991  | ug/l   | 99       |
| 25) 2-Butanone               | 6.896          | 43   | 158594     | 239.715 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 201830     | 50.287  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.896          | 96   | 137382     | 52.244  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.250          | 49   | 72076      | 50.330  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.268          | 42   | 104646     | 250.559 | ug/l   | 100      |
| 30) Chloroform               | 7.427          | 83   | 227859     | 53.857  | ug/l   | 98       |
| 31) Cyclohexane              | 7.707          | 56   | 199490     | 49.141  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 206129     | 52.846  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 7.841          | 75   | 169048     | 54.656  | ug/l   | 100      |
| 37) Ethyl Acetate            | 6.988          | 43   | 73443      | 50.481  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.823          | 117  | 190940     | 55.798  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.116          | 83   | 216273     | 53.650  | ug/l   | 97       |
| 40) Benzene                  | 8.085          | 78   | 496803     | 54.799  | ug/l   | 97       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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Quant Time: Dec 20 18:07:52 2024  
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 Quant Title : SW846 8260  
 QLast Update : Wed Dec 18 05:27:13 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.226  | 41   | 39064    | 50.789  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.165  | 62   | 129790   | 53.978  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.201  | 43   | 146927   | 53.344  | ug/l # | 89       |
| 44) Trichloroethene           | 8.866  | 130  | 120106   | 53.915  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.146  | 63   | 114657   | 54.113  | ug/l   | 100      |
| 46) Dibromomethane            | 9.231  | 93   | 60564    | 54.086  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.427  | 83   | 165285   | 54.644  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.225  | 41   | 69098    | 52.772  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 12610    | 981.949 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 372513   | 256.228 | ug/l   | 100      |
| 52) Toluene                   | 10.176 | 92   | 310772   | 55.159  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 153061   | 54.306  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 185052   | 55.407  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 80376    | 54.290  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.439 | 69   | 116828   | 54.394  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 143193   | 54.257  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 242438   | 268.265 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.762 | 43   | 246134   | 263.689 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.914 | 129  | 109346   | 55.226  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 73670    | 53.496  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.652 | 164  | 107671   | 53.958  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.444 | 112  | 323124   | 54.474  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 114100   | 56.252  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.524 | 91   | 607565   | 55.519  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.633 | 106  | 444911   | 109.344 | ug/l   | 99       |
| 69) o-Xylene                  | 11.957 | 106  | 208015   | 54.792  | ug/l   | 97       |
| 70) Styrene                   | 11.975 | 104  | 349665   | 55.127  | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 63758    | 55.908  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.255 | 105  | 571028   | 54.823  | ug/l   | 99       |
| 74) N-ethyl acetate           | 12.072 | 43   | 126874   | 52.048  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 90544    | 53.553  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 62731m   | 50.593  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 121520   | 53.559  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.597 | 91   | 691545   | 55.107  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 382585   | 54.188  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.743 | 105  | 460381   | 54.473  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 32476    | 54.979  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.780 | 91   | 394546   | 53.864  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 425908   | 55.644  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 454208   | 54.789  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.182 | 105  | 615306   | 55.289  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.298 | 119  | 507405   | 55.299  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.292 | 146  | 240167   | 53.623  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 233518   | 52.643  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.621 | 91   | 482377   | 55.471  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.883 | 117  | 99835    | 54.904  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.664 | 146  | 205065   | 52.844  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75   | 13979    | 50.926  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 14.926 | 180  | 121126   | 51.603  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 83298    | 54.285  | ug/l   | 99       |
| 95) Naphthalene               | 15.151 | 128  | 204937   | 50.926  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.334 | 180  | 100879   | 50.866  | ug/l   | 99       |

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ALS Vial : 2 Sample Multiplier: 1

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MSVOA\_Y  
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VSTDCCC050

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APPROVED

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Supervised By :Mahesh Dadoda 12/24/2024

Quant Time: Dec 20 18:07:52 2024  
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QLast Update : Wed Dec 18 05:27:13 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

