

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030624\  
 Data File : VY017597.D  
 Acq On : 06 Mar 2024 19:00  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/07/2024  
 Supervised By : Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 02:10:35 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022324S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 123642     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 187292     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 168574     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 85729      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.137          | 65   | 55627      | 47.472   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 94.940%  |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 64461      | 49.391   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 98.780%  |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 239418     | 52.468   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 104.940% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 75916      | 52.937   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 105.880% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 50052      | 54.878   | ug/l   | 99       |
| 3) Chloromethane             | 2.107          | 50   | 91014      | 54.616   | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.247          | 62   | 120126     | 56.189   | ug/l   | 98       |
| 5) Bromomethane              | 2.644          | 94   | 110034     | 63.158   | ug/l   | 97       |
| 6) Chloroethane              | 2.784          | 64   | 81040      | 60.089   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 126488     | 58.051   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.522          | 74   | 38949      | 60.946   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.887          | 101  | 73037      | 58.276   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.082          | 142  | 76449      | 54.353   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 23112      | 232.196  | ug/l # | 81       |
| 12) 1,1-Dichloroethene       | 3.863          | 96   | 70450      | 60.317   | ug/l   | 96       |
| 13) Acrolein                 | 3.723          | 56   | 37341      | 284.318  | ug/l   | 99       |
| 14) Allyl chloride           | 4.473          | 41   | 84238      | 59.689   | ug/l   | 97       |
| 15) Acrylonitrile            | 5.162          | 53   | 80356      | 305.875  | ug/l   | 100      |
| 16) Acetone                  | 3.942          | 43   | 58255      | 256.313  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.186          | 76   | 217821     | 62.131   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.479          | 43   | 35756      | 64.846   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 164209     | 60.318   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.710          | 84   | 87153      | 67.146   | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 83862      | 61.322   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.119          | 45   | 200096     | 61.442   | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.058          | 43   | 593228     | 305.690  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 135988     | 61.121   | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 93744      | 289.420  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 100758     | 53.863   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 94864      | 61.782   | ug/l   | 96       |
| 28) Bromochloromethane       | 7.332          | 49   | 51436      | 58.700   | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 62188      | 318.502  | ug/l   | 99       |
| 30) Chloroform               | 7.503          | 83   | 144616     | 61.051   | ug/l   | 99       |
| 31) Cyclohexane              | 7.783          | 56   | 110219     | 57.798   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.698          | 97   | 123427     | 60.017   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 111910     | 63.554   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.076          | 43   | 43002      | 61.831   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 110719     | 62.738   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 134023     | 63.332   | ug/l   | 99       |
| 40) Benzene                  | 8.161          | 78   | 333543     | 63.783   | ug/l   | 99       |

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 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
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Quant Time: Mar 07 02:10:35 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022324S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 25575m   | 73.280   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 78818    | 61.775   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 77463    | 63.383   | ug/l   | 98       |
| 44) Trichloroethene           | 8.941  | 130  | 94619    | 62.776   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 78389    | 63.007   | ug/l   | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 46030    | 64.647   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.496  | 83   | 109535   | 63.357   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.295  | 41   | 35862    | 63.394   | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 10404    | 1291.127 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 221880   | 325.750  | ug/l   | 98       |
| 52) Toluene                   | 10.246 | 92   | 211306   | 64.097   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 99615    | 62.078   | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 121403   | 62.264   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 63931    | 63.239   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 75019    | 59.797   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.789 | 76   | 104320   | 63.468   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 167167   | 286.558  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.831 | 43   | 151245   | 323.271  | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.984 | 129  | 77927    | 65.159   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 60181    | 64.598   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 100661   | 62.213   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 226737   | 63.368   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 84314    | 62.899   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 398677   | 63.533   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.703 | 106  | 319038   | 129.388  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 148619   | 64.968   | ug/l   | 98       |
| 70) Styrene                   | 12.044 | 104  | 247392   | 65.152   | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 48505    | 65.298   | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.331 | 105  | 384356   | 60.347   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 68775    | 61.224   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 68390    | 62.530   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 45485m   | 55.840   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 92641    | 60.063   | ug/l   | 95       |
| 78) n-propylbenzene           | 12.672 | 91   | 463417   | 60.639   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 250299   | 58.498   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 310850   | 60.919   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 21188    | 59.769   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 259371   | 59.266   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 275592   | 61.505   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 312728   | 62.079   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.258 | 105  | 415453   | 60.645   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 347351   | 61.939   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 184886   | 59.719   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 179158   | 59.523   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.703 | 91   | 308939   | 60.381   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 66931    | 59.532   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 161049   | 61.499   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 9192     | 59.783   | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 86725    | 62.698   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 51804    | 60.660   | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 155820   | 57.500   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 75268    | 63.430   | ug/l   | 98       |

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Quant Title : SW846 8260  
QLast Update : Sat Feb 24 04:41:20 2024  
Response via : Initial Calibration

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

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

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