

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY012023\  
 Data File : VY012280.D  
 Acq On : 20 Jan 2023 10:34  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 01/23/2023  
 Supervised By :Mahesh Dadoda 01/25/2023

Quant Time: Jan 23 02:14:55 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 04:31:47 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 233023     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 353084     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 315640     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 156820     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 88437      | 45.427  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 90.860% |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 87384      | 46.740  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 93.480% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 318015     | 49.008  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 98.020% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 118014     | 44.778  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 89.560% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 93471      | 45.900  | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 89822      | 47.780  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.253          | 62   | 108290     | 49.352  | ug/l   | 98       |
| 5) Bromomethane              | 2.656          | 94   | 75228      | 44.344  | ug/l   | 93       |
| 6) Chloroethane              | 2.796          | 64   | 69283      | 48.414  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 206544     | 48.229  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.534          | 74   | 63958      | 50.189  | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 110757     | 53.139  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.094          | 142  | 149395     | 47.165  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.991          | 59   | 44502      | 191.260 | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 111174     | 51.946  | ug/l   | 95       |
| 13) Acrolein                 | 3.735          | 56   | 15937      | 176.277 | ug/l   | 98       |
| 14) Allyl chloride           | 4.485          | 41   | 146083     | 55.204  | ug/l   | 92       |
| 15) Acrylonitrile            | 5.167          | 53   | 138474     | 248.775 | ug/l   | 100      |
| 16) Acetone                  | 3.960          | 43   | 178186     | 274.612 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.198          | 76   | 337001     | 50.908  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.485          | 43   | 72335      | 49.819  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 295083     | 49.461  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.716          | 84   | 125199     | 45.335  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 124950     | 52.319  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.118          | 45   | 292850     | 55.510  | ug/l # | 93       |
| 23) Vinyl Acetate            | 6.058          | 43   | 877824     | 267.023 | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 195590     | 53.450  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 194842     | 271.997 | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 198974     | 50.089  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 135771     | 51.755  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.338          | 49   | 39181      | 49.027  | ug/l # | 78       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 100877     | 256.373 | ug/l   | 89       |
| 30) Chloroform               | 7.508          | 83   | 218671     | 50.623  | ug/l   | 100      |
| 31) Cyclohexane              | 7.789          | 56   | 177088     | 52.123  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 213530     | 49.932  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 164644     | 51.818  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.076          | 43   | 70928      | 50.637  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 202275     | 49.292  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.185          | 83   | 210339     | 54.170  | ug/l   | 95       |
| 40) Benzene                  | 8.161          | 78   | 477053     | 52.019  | ug/l   | 100      |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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Quant Time: Jan 23 02:14:55 2023  
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 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 04:31:47 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 40986    | 49.780  | ug/l # | 100      |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 140644   | 48.173  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 134483   | 51.605  | ug/l # | 94       |
| 44) Trichloroethene           | 8.941  | 130  | 144972   | 52.889  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 105198   | 54.974  | ug/l   | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 65137    | 50.846  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.496  | 83   | 164107   | 50.890  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 61696    | 51.381  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 16812    | 963.108 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 360254   | 259.249 | ug/l   | 96       |
| 52) Toluene                   | 10.246 | 92   | 314088   | 51.439  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 172966   | 51.279  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 187623   | 51.650  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 95037    | 52.215  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 125570   | 52.588  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 155722   | 52.388  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 191307   | 242.130 | ug/l   | 92       |
| 59) 2-Hexanone                | 10.831 | 43   | 289437   | 273.576 | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.983 | 129  | 122444   | 50.722  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 88427    | 50.349  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 160936   | 55.877  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.520 | 112  | 334346   | 51.771  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 126255   | 51.794  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 602832   | 52.230  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 477323   | 104.595 | ug/l   | 98       |
| 69) o-Xylene                  | 12.032 | 106  | 228168   | 52.346  | ug/l   | 97       |
| 70) Styrene                   | 12.044 | 104  | 381745   | 52.416  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 79993    | 51.363  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 609939   | 53.938  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 120046   | 54.155  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 94410    | 53.005  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 73468m   | 50.948  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 141384   | 51.959  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.672 | 91   | 708449   | 53.538  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 396616   | 53.011  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 519812   | 52.878  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 37535    | 53.632  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 410535   | 52.238  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 456679   | 53.302  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 509270   | 52.532  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 651013   | 53.368  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 563725   | 52.893  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 277665   | 51.307  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 274380   | 50.838  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 493877   | 53.472  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 102918   | 53.491  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 245431   | 50.825  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 18706    | 50.818  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 159284   | 51.480  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 97935    | 52.571  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 317566   | 51.999  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 137823   | 51.763  | ug/l   | 100      |

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ALS Vial : 2 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 01/23/2023  
Supervised By :Mahesh Dadoda 01/25/2023

Quant Time: Jan 23 02:14:55 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 17 04:31:47 2023  
Response via : Initial Calibration

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

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

