

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052323\  
 Data File : VY013829.D  
 Acq On : 23 May 2023 11:45  
 Operator : KP/MD  
 Sample : VSTDIC010  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 05/24/2023  
 Supervised By :Mahesh Dadoda 05/24/2023

Quant Time: May 24 05:03:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052323S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 24 05:01:28 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 260041     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 398563     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 353618     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 175791     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.142          | 65   | 31890      | 10.600   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 21.200%# |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 26322      | 10.226   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 20.460%# |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 102659     | 10.494   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 20.980%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 34416      | 10.584   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 21.160%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 20539      | 8.623    | ug/l   | 93       |
| 3) Chloromethane             | 2.119          | 50   | 25049      | 8.632    | ug/l   | 91       |
| 4) Vinyl Chloride            | 2.253          | 62   | 25496      | 8.592    | ug/l   | 99       |
| 5) Bromomethane              | 2.656          | 94   | 20321      | 8.617    | ug/l   | 96       |
| 6) Chloroethane              | 2.802          | 64   | 16499      | 8.532    | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 46457      | 9.302    | ug/l   | 95       |
| 8) Diethyl Ether             | 3.534          | 74   | 14213      | 9.278    | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 25164      | 9.294    | ug/l   | 97       |
| 10) Methyl Iodide            | 4.094          | 142  | 25542      | 7.946    | ug/l # | 93       |
| 11) Tert butyl alcohol       | 4.984          | 59   | 10834m     | 47.010   | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 22732      | 8.937    | ug/l   | 95       |
| 13) Acrolein                 | 3.741          | 56   | 17973      | 51.845   | ug/l   | 93       |
| 14) Allyl chloride           | 4.491          | 41   | 39306      | 8.464    | ug/l   | 99       |
| 15) Acrylonitrile            | 5.180          | 53   | 35190      | 44.802   | ug/l   | 98       |
| 16) Acetone                  | 3.960          | 43   | 41101      | 46.031   | ug/l   | 89       |
| 17) Carbon Disulfide         | 4.204          | 76   | 58568      | 7.714    | ug/l   | 98       |
| 18) Methyl Acetate           | 4.491          | 43   | 28127      | 9.080    | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 61507      | 8.861    | ug/l   | 99       |
| 20) Methylene Chloride       | 4.722          | 84   | 39325      | 10.410   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 23913      | 8.648    | ug/l   | 83       |
| 22) Diisopropyl ether        | 6.131          | 45   | 79658      | 8.884    | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.070          | 43   | 219515     | 42.035   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 47069      | 8.992    | ug/l   | 96       |
| 25) 2-Butanone               | 6.996          | 43   | 48586      | 44.593   | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 43638      | 9.255    | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 28027      | 9.023    | ug/l   | 99       |
| 28) Bromochloromethane       | 7.338          | 49   | 15469      | 10.069   | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 27742      | 42.647   | ug/l   | 100      |
| 30) Chloroform               | 7.515          | 83   | 50330      | 9.484    | ug/l   | 96       |
| 31) Cyclohexane              | 7.789          | 56   | 40627      | 8.790    | ug/l # | 87       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 44583      | 9.209    | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 33832      | 8.630    | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.082          | 43   | 20708      | 8.659    | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 41440      | 9.295    | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 38737      | 8.437    | ug/l   | 93       |
| 40) Benzene                  | 8.167          | 78   | 102571     | 9.109    | ug/l   | 96       |

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 Sample : VSTDICC010  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC010

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 05/24/2023  
 Supervised By :Mahesh Dadoda 05/24/2023

Quant Time: May 24 05:03:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052323S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 24 05:01:28 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.332  | 41   | 13136m   | 10.067  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 35158    | 9.536   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.277  | 43   | 38290    | 8.786   | ug/l # | 90       |
| 44) Trichloroethene           | 8.947  | 130  | 28293    | 9.326   | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 26214    | 9.088   | ug/l   | 92       |
| 46) Dibromomethane            | 9.307  | 93   | 15010    | 9.086   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 37904    | 9.415   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 16678    | 8.150   | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 3581m    | 184.440 | ug/l   |          |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 102077   | 43.954  | ug/l   | 99       |
| 52) Toluene                   | 10.246 | 92   | 62987    | 9.174   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 37315    | 9.105   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 42296    | 9.213   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 20876    | 9.393   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 25826    | 8.705   | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 35874    | 9.477   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 46863    | 49.504  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.831 | 43   | 73281    | 44.361  | ug/l   | 97       |
| 60) Dibromochloromethane      | 10.990 | 129  | 27178    | 9.667   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 19644    | 9.291   | ug/l   | 95       |
| 64) Tetrachloroethene         | 10.721 | 164  | 24632    | 9.414   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.520 | 112  | 70412    | 9.500   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 27277    | 9.536   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 119645   | 8.971   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 90843    | 17.998  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 42828    | 9.008   | ug/l   | 98       |
| 70) Styrene                   | 12.044 | 104  | 73337    | 9.106   | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 17747    | 9.493   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 115687   | 8.842   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 33786    | 8.589   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 25752    | 9.508   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 19236m   | 9.280   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 30042    | 9.358   | ug/l   | 96       |
| 78) n-propylbenzene           | 12.672 | 91   | 143044   | 8.850   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 83151    | 9.210   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 98262    | 9.098   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 8062     | 8.443   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 84841    | 9.091   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 84845    | 9.020   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 95775    | 9.034   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 129074   | 9.237   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 105713   | 9.153   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 60250    | 9.717   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 59172    | 9.585   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.696 | 91   | 99741    | 9.006   | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 22705    | 9.575   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 53169    | 9.648   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 3988     | 8.404   | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 31548    | 9.235   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 21358    | 9.915   | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 53778    | 11.065  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 28113    | 9.254   | ug/l   | 99       |

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ALS Vial : 5 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 05/24/2023  
Supervised By :Mahesh Dadoda 05/24/2023

Quant Time: May 24 05:03:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052323S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 24 05:01:28 2023  
Response via : Initial Calibration

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

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

