

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101023\  
 Data File : VY015886.D  
 Acq On : 10 Oct 2023 09:42  
 Operator : SY/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 :Mahesh Dadoda 10/11/2023  
 Supervised By :Semsettin Yesilyurt 10/11/2023

Quant Time: Oct 11 01:15:30 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100923S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 10 07:06:18 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 198241     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 333995     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 300503     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 149710     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 88244      | 49.471   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 98.940%  |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 90875      | 48.780   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 97.560%  |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 307434     | 50.073   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 100.140% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 117827     | 47.248   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 94.500%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 37818      | 47.694   | ug/l   | 100      |
| 3) Chloromethane             | 2.125          | 50   | 43483      | 53.613   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.259          | 62   | 53330      | 51.556   | ug/l   | 94       |
| 5) Bromomethane              | 2.662          | 94   | 44027      | 51.906   | ug/l   | 98       |
| 6) Chloroethane              | 2.808          | 64   | 41838      | 51.507   | ug/l   | 92       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 105902     | 48.249   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.540          | 74   | 45074      | 48.540   | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 71410      | 47.939   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.107          | 142  | 72260      | 48.340   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 58831      | 137.788  | ug/l # | 84       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 58338      | 50.915   | ug/l   | 91       |
| 13) Acrolein                 | 3.747          | 56   | 21993      | 201.728  | ug/l   | 100      |
| 14) Allyl chloride           | 4.491          | 41   | 108991     | 51.592   | ug/l   | 91       |
| 15) Acrylonitrile            | 5.174          | 53   | 139012     | 217.701  | ug/l   | 98       |
| 16) Acetone                  | 3.960          | 43   | 169464     | 213.694  | ug/l   | 90       |
| 17) Carbon Disulfide         | 4.210          | 76   | 87330      | 50.935   | ug/l   | 97       |
| 18) Methyl Acetate           | 4.497          | 43   | 111138     | 45.959   | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 245253     | 47.235   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.728          | 84   | 93189      | 50.332   | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.234          | 96   | 69066      | 51.947   | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.137          | 45   | 285017     | 50.441   | ug/l   | 88       |
| 23) Vinyl Acetate            | 6.076          | 43   | 734698     | 236.455  | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 155818     | 50.060   | ug/l   | 96       |
| 25) 2-Butanone               | 6.996          | 43   | 213397     | 218.084  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 138750     | 47.933   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 101379     | 51.663   | ug/l   | 92       |
| 28) Bromochloromethane       | 7.344          | 49   | 91750      | 51.145   | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 114699     | 214.273  | ug/l   | 92       |
| 30) Chloroform               | 7.515          | 83   | 174342     | 50.217   | ug/l   | 96       |
| 31) Cyclohexane              | 7.795          | 56   | 85481      | 44.745   | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 139317     | 49.137   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 101638     | 49.261   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.082          | 43   | 76423      | 43.128   | ug/l # | 96       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 116410     | 46.980   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.191          | 83   | 99480      | 47.467   | ug/l   | 94       |
| 40) Benzene                  | 8.167          | 78   | 323412     | 49.878   | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101023\  
 Data File : VY015886.D  
 Acq On : 10 Oct 2023 09:42  
 Operator : SY/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 :Mahesh Dadoda 10/11/2023

Supervised By :Semsettin Yesilyurt 10/11/2023

Quant Time: Oct 11 01:15:30 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100923S.M

Quant Title : SW846 8260

QLast Update : Tue Oct 10 07:06:18 2023

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 42462    | 38.526  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 106839   | 48.337  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 142494   | 43.442  | ug/l   | 94       |
| 44) Trichloroethene           | 8.947  | 130  | 93313    | 49.733  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 95800    | 49.121  | ug/l   | 99       |
| 46) Dibromomethane            | 9.313  | 93   | 55675    | 47.970  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.502  | 83   | 140754   | 48.763  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 66023    | 45.579  | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 16401    | 812.924 | ug/l # | 59       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 414012   | 210.969 | ug/l   | 91       |
| 52) Toluene                   | 10.252 | 92   | 211966   | 49.248  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 140569   | 48.171  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 154448   | 48.725  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 84771    | 45.871  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 116297   | 46.353  | ug/l # | 84       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 139775   | 46.912  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 375983   | 245.867 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.837 | 43   | 323422   | 217.840 | ug/l   | 89       |
| 60) Dibromochloromethane      | 10.990 | 129  | 103635   | 46.778  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 77252    | 45.770  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.727 | 164  | 93153    | 47.500  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.520 | 112  | 251599   | 48.000  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 103055   | 48.103  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.599 | 91   | 433033   | 48.156  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.709 | 106  | 331210   | 97.747  | ug/l   | 95       |
| 69) o-Xylene                  | 12.032 | 106  | 165121   | 48.704  | ug/l   | 98       |
| 70) Styrene                   | 12.050 | 104  | 290488   | 49.109  | ug/l   | 96       |
| 71) Bromoform                 | 12.215 | 173  | 68354    | 45.817  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 446943   | 47.326  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 131702   | 44.252  | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 104942   | 42.855  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 75075m   | 42.957  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 108088   | 46.677  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.672 | 91   | 538568   | 47.422  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 310480   | 47.993  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105  | 378505   | 48.629  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 34971    | 44.372  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 325131   | 48.228  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.081 | 119  | 342794   | 47.190  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 378255   | 48.258  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 507836   | 47.670  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 424898   | 48.214  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 218880   | 46.949  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 219813   | 46.820  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.702 | 91   | 404004   | 48.444  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.965 | 117  | 84351    | 47.694  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 202206   | 46.660  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 17945    | 41.728  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 128359   | 46.216  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 70985    | 47.730  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 279578   | 43.514  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 115104   | 46.590  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101023\  
Data File : VY015886.D  
Acq On : 10 Oct 2023 09:42  
Operator : SY/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 :Mahesh Dadoda 10/11/2023  
Supervised By :Semsettin Yesilyurt 10/11/2023

Quant Time: Oct 11 01:15:30 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100923S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 10 07:06:18 2023  
Response via : Initial Calibration

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

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

