

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121923\  
 Data File : VY016690.D  
 Acq On : 19 Dec 2023 11:18  
 Operator : SY/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 :Mahesh Dadoda 12/20/2023  
 Supervised By :Semsettin Yesilyurt 12/20/2023

Quant Time: Dec 20 05:27:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y121923S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 20 05:26:40 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.813          | 168  | 167055     | 50.000   | ug/l   | 0.02     |
| 34) 1,4-Difluorobenzene      | 8.710          | 114  | 255959     | 50.000   | ug/l   | 0.01     |
| 63) Chlorobenzene-d5         | 11.508         | 117  | 218631     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.440         | 152  | 105047     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.167          | 65   | 14496      | 10.491   | ug/l   | 0.02     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 20.980%# |        |          |
| 35) Dibromofluoromethane     | 7.746          | 113  | 15173      | 10.065   | ug/l   | 0.02     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 20.120%# |        |          |
| 50) Toluene-d8               | 10.197         | 98   | 53794      | 9.853    | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 19.700%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.496         | 95   | 15645      | 10.078   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 20.160%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 15722      | 10.329   | ug/l   | 98       |
| 3) Chloromethane             | 2.125          | 50   | 28781      | 8.575    | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.266          | 62   | 35921      | 11.133   | ug/l   | 95       |
| 5) Bromomethane              | 2.668          | 94   | 27340      | 9.766    | ug/l   | 96       |
| 6) Chloroethane              | 2.808          | 64   | 27182      | 11.256   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.150          | 101  | 31395      | 11.102   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.552          | 74   | 8229       | 10.871   | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 3.924          | 101  | 17264      | 11.252   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.119          | 142  | 17902      | 10.275   | ug/l   | 96       |
| 11) Tert butyl alcohol       | 4.991          | 59   | 5611m      | 42.500   | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.893          | 96   | 15302      | 10.996   | ug/l   | 99       |
| 13) Acrolein                 | 3.759          | 56   | 4936       | 52.764   | ug/l   | 100      |
| 14) Allyl chloride           | 4.503          | 41   | 18325      | 10.547   | ug/l   | 88       |
| 15) Acrylonitrile            | 5.192          | 53   | 15896      | 52.451   | ug/l   | 95       |
| 16) Acetone                  | 3.967          | 43   | 21765      | 45.704   | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.223          | 76   | 39494      | 10.605   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.503          | 43   | 12327      | 10.296   | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.253          | 73   | 34479      | 10.257   | ug/l   | 96       |
| 20) Methylene Chloride       | 4.747          | 84   | 20237      | 9.235    | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.253          | 96   | 16404      | 10.423   | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.149          | 45   | 42160      | 10.601   | ug/l   | 91       |
| 23) Vinyl Acetate            | 6.088          | 43   | 101507     | 52.198   | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.045          | 63   | 30358      | 11.085   | ug/l   | 98       |
| 25) 2-Butanone               | 7.015          | 43   | 23962      | 47.288   | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.009          | 77   | 26497      | 10.653   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.015          | 96   | 19096      | 10.735   | ug/l   | 96       |
| 28) Bromochloromethane       | 7.356          | 49   | 10061      | 10.117   | ug/l   | 88       |
| 29) Tetrahydrofuran          | 7.374          | 42   | 11609      | 51.893   | ug/l   | 98       |
| 30) Chloroform               | 7.533          | 83   | 32729      | 11.139   | ug/l   | 99       |
| 31) Cyclohexane              | 7.813          | 56   | 24915      | 11.016   | ug/l # | 91       |
| 32) 1,1,1-Trichloroethane    | 7.728          | 97   | 28466      | 10.910   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 7.941          | 75   | 22431      | 9.837    | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.094          | 43   | 8993       | 10.297   | ug/l # | 96       |
| 38) Carbon Tetrachloride     | 7.923          | 117  | 25862      | 10.511   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.203          | 83   | 26516      | 10.100   | ug/l   | 90       |
| 40) Benzene                  | 8.185          | 78   | 69090      | 10.545   | ug/l   | 98       |

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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 :Mahesh Dadoda 12/20/2023  
 Supervised By :Semsettin Yesilyurt 12/20/2023

Quant Time: Dec 20 05:27:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y121923S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 20 05:26:40 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.332  | 41   | 4898     | 10.560  | ug/l # | 88       |
| 42) 1,2-Dichloroethane        | 8.258  | 62   | 19339    | 10.431  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.295  | 43   | 16628    | 9.913   | ug/l # | 79       |
| 44) Trichloroethene           | 8.966  | 130  | 19000    | 10.538  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.234  | 63   | 16685    | 10.655  | ug/l   | 93       |
| 46) Dibromomethane            | 9.325  | 93   | 9208     | 10.413  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.514  | 83   | 24726    | 10.709  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.313  | 41   | 8949     | 9.833   | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.325  | 88   | 1468     | 180.303 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.087 | 43   | 41942    | 48.715  | ug/l   | 94       |
| 52) Toluene                   | 10.264 | 92   | 40549    | 10.115  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.484 | 75   | 20216    | 9.779   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.947  | 75   | 24877    | 10.155  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.660 | 97   | 12826    | 10.500  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.526 | 69   | 9396     | 9.452   | ug/l # | 91       |
| 57) 1,3-Dichloropropane       | 10.807 | 76   | 20790    | 10.314  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.801  | 63   | 27149    | 56.199  | ug/l   | 96       |
| 59) 2-Hexanone                | 10.849 | 43   | 32756    | 52.219  | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.002 | 129  | 15320    | 10.329  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.106 | 107  | 11103    | 10.092  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.740 | 164  | 15212    | 10.087  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.532 | 112  | 44852    | 10.359  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.605 | 131  | 16840    | 10.040  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.612 | 91   | 75796    | 9.799   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.721 | 106  | 57394    | 19.575  | ug/l   | 99       |
| 69) o-Xylene                  | 12.044 | 106  | 26177    | 9.773   | ug/l   | 98       |
| 70) Styrene                   | 12.063 | 104  | 37221    | 9.624   | ug/l   | 97       |
| 71) Bromoform                 | 12.227 | 173  | 8900     | 10.244  | ug/l # | 95       |
| 73) Isopropylbenzene          | 12.343 | 105  | 71292    | 9.815   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.160 | 43   | 12651    | 9.626   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.599 | 83   | 13704    | 10.140  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.648 | 75   | 9109m    | 9.976   | ug/l   |          |
| 77) Bromobenzene              | 12.624 | 156  | 17625    | 10.064  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.685 | 91   | 85311    | 9.907   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.776 | 91   | 46078    | 9.990   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.825 | 105  | 55578    | 9.765   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.392 | 75   | 3839     | 9.646   | ug/l # | 82       |
| 82) 4-Chlorotoluene           | 12.874 | 91   | 48496    | 10.168  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.093 | 119  | 51183    | 9.994   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.136 | 105  | 54815    | 9.608   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.270 | 105  | 73373    | 9.934   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.386 | 119  | 60862    | 9.426   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.380 | 146  | 34231    | 9.878   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.459 | 146  | 34831    | 10.491  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.709 | 91   | 57661    | 9.769   | ug/l   | 97       |
| 90) Hexachloroethane          | 13.977 | 117  | 13486    | 10.480  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.757 | 146  | 29734    | 10.443  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.373 | 75   | 1906     | 10.756  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.019 | 180  | 17614    | 10.350  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.123 | 225  | 11789    | 10.960  | ug/l   | 97       |
| 95) Naphthalene               | 15.251 | 128  | 26728    | 9.811   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.440 | 180  | 14943    | 10.381  | ug/l   | 99       |

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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 12/20/2023  
Supervised By :Semsettin Yesilyurt 12/20/2023

Quant Time: Dec 20 05:27:10 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y121923S.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 20 05:26:40 2023  
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

