

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052224\  
 Data File : VY018344.D  
 Acq On : 22 May 2024 13:07  
 Operator : SY/MD  
 Sample : VSTDIC010  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 05/23/2024  
 Supervised By :Semsettin Yesilyurt 05/23/2024

Quant Time: May 23 01:26:00 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052224S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 23 01:24:34 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.783          | 168  | 140364     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 249964     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 215457     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 92948      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.130          | 65   | 13580      | 10.212   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 20.420%# |        |          |
| 35) Dibromofluoromethane     | 7.703          | 113  | 13144      | 9.017    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 18.040%# |        |          |
| 50) Toluene-d8               | 10.172         | 98   | 54171      | 9.532    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 19.060%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 17177      | 9.782    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 19.560%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.899          | 85   | 11882      | 9.918    | ug/l   | 90       |
| 3) Chloromethane             | 2.101          | 50   | 19731      | 10.134   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.241          | 62   | 21327      | 9.792    | ug/l   | 97       |
| 5) Bromomethane              | 2.637          | 94   | 15144      | 9.725    | ug/l   | 99       |
| 6) Chloroethane              | 2.783          | 64   | 14343      | 10.145   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 24591      | 10.061   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.515          | 74   | 8031       | 10.290   | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 3.887          | 101  | 15764      | 10.454   | ug/l   | 94       |
| 10) Methyl Iodide            | 4.076          | 142  | 14358      | 9.468    | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.911          | 59   | 9495m      | 59.458   | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.856          | 96   | 14535      | 9.787    | ug/l   | 91       |
| 13) Acrolein                 | 3.716          | 56   | 6252       | 44.554   | ug/l   | 96       |
| 14) Allyl chloride           | 4.472          | 41   | 21301      | 10.269   | ug/l   | 93       |
| 15) Acrylonitrile            | 5.149          | 53   | 18320      | 54.269   | ug/l   | 97       |
| 16) Acetone                  | 3.936          | 43   | 13061      | 47.753   | ug/l # | 78       |
| 17) Carbon Disulfide         | 4.180          | 76   | 38384      | 9.255    | ug/l # | 85       |
| 18) Methyl Acetate           | 4.466          | 43   | 7764       | 10.710   | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.198          | 73   | 36737      | 10.316   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.698          | 84   | 21268      | 9.593    | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.204          | 96   | 15292      | 9.760    | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.100          | 45   | 45969      | 10.665   | ug/l # | 86       |
| 23) Vinyl Acetate            | 6.045          | 43   | 140757     | 50.998   | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.008          | 63   | 27011      | 10.218   | ug/l   | 94       |
| 25) 2-Butanone               | 6.978          | 43   | 22617      | 52.181   | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 24324      | 10.644   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.972          | 96   | 18137      | 9.851    | ug/l   | 92       |
| 28) Bromochloromethane       | 7.331          | 49   | 10040      | 11.183   | ug/l # | 76       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 15665      | 54.909   | ug/l   | 86       |
| 30) Chloroform               | 7.496          | 83   | 28421      | 10.548   | ug/l   | 97       |
| 31) Cyclohexane              | 7.783          | 56   | 27316      | 9.640    | ug/l # | 93       |
| 32) 1,1,1-Trichloroethane    | 7.697          | 97   | 23632      | 9.993    | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 7.911          | 75   | 20960      | 9.915    | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.063          | 43   | 10835      | 10.714   | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 7.892          | 117  | 20719      | 9.569    | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.179          | 83   | 28678      | 9.725    | ug/l   | 94       |
| 40) Benzene                  | 8.148          | 78   | 64567      | 10.019   | ug/l   | 98       |

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 Operator : SY/MD  
 Sample : VSTDICC010  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC010

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 05/23/2024  
 Supervised By :Semsettin Yesilyurt 05/23/2024

Quant Time: May 23 01:26:00 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052224S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 23 01:24:34 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 4733m    | 8.465   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 15744    | 10.157  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.270  | 43   | 19664    | 9.966   | ug/l # | 85       |
| 44) Trichloroethene           | 8.935  | 130  | 15347    | 9.291   | ug/l   | 85       |
| 45) 1,2-Dichloropropane       | 9.209  | 63   | 14947    | 10.313  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 8218     | 9.663   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.490  | 83   | 20272    | 9.822   | ug/l   | 92       |
| 48) Methyl methacrylate       | 9.288  | 41   | 9000     | 10.084  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.294  | 88   | 2183     | 197.834 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 49951    | 50.162  | ug/l   | 96       |
| 52) Toluene                   | 10.239 | 92   | 40353    | 9.989   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 18146    | 9.616   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.922  | 75   | 22862    | 9.887   | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 11236    | 9.972   | ug/l # | 88       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 15305    | 9.903   | ug/l # | 81       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 19747    | 10.340  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 38942    | 55.764  | ug/l   | 96       |
| 59) 2-Hexanone                | 10.831 | 43   | 34491    | 50.337  | ug/l   | 92       |
| 60) Dibromochloromethane      | 10.977 | 129  | 12596    | 9.255   | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 10349    | 9.954   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 14907    | 9.753   | ug/l   | 91       |
| 65) Chlorobenzene             | 11.514 | 112  | 43112    | 9.686   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 12977    | 9.217   | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.587 | 91   | 75291    | 9.633   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.696 | 106  | 56976    | 18.945  | ug/l   | 98       |
| 69) o-Xylene                  | 12.026 | 106  | 27128    | 9.558   | ug/l   | 97       |
| 70) Styrene                   | 12.038 | 104  | 43710    | 9.317   | ug/l   | 96       |
| 71) Bromoform                 | 12.202 | 173  | 6382     | 8.569   | ug/l # | 95       |
| 73) Isopropylbenzene          | 12.324 | 105  | 71785    | 9.826   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.141 | 43   | 17312    | 10.157  | ug/l   | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.580 | 83   | 13268    | 10.659  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 10235m   | 11.844  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 14791    | 9.244   | ug/l   | 91       |
| 78) n-propylbenzene           | 12.666 | 91   | 88901    | 10.163  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 48141    | 10.165  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 55997    | 9.754   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 4093     | 10.081  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 47204    | 9.831   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.074 | 119  | 52096    | 9.817   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 54299    | 9.617   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 78891    | 10.052  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 63748    | 9.930   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 29059    | 9.223   | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 30981    | 9.879   | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.696 | 91   | 59862    | 9.923   | ug/l   | 98       |
| 90) Hexachloroethane          | 13.958 | 117  | 10646    | 8.980   | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 26135    | 9.559   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 1712     | 10.027  | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 13895    | 8.923   | ug/l   | 94       |
| 94) Hexachlorobutadiene       | 15.110 | 225  | 6726     | 8.440   | ug/l   | 94       |
| 95) Naphthalene               | 15.232 | 128  | 26658    | 8.705   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.421 | 180  | 11294    | 8.530   | ug/l   | 97       |

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Operator : SY/MD  
Sample : VSTDICC010  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 05/23/2024  
Supervised By :Semsettin Yesilyurt 05/23/2024

Quant Time: May 23 01:26:00 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052224S.M  
Quant Title : SW846 8260  
QLast Update : Thu May 23 01:24:34 2024  
Response via : Initial Calibration

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

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

