

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050922\  
 Data File : VY008655.D  
 Acq On : 09 May 2022 10:00  
 Operator : KP/MD  
 Sample : VSTDICC005  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 05/10/2022  
 Supervised By :Semsettin Yesilyurt 05/10/2022

Quant Time: May 09 12:41:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050922S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 09 12:39:51 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 244269     | 50.000   | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 384248     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 354308     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 174633     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 11720      | 4.521    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 9.040%#  |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 12508      | 5.324    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 10.640%# |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 45284      | 5.012    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 10.020%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 16140      | 4.884    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 9.760%#  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.918          | 85   | 6114       | 4.197    | ug/l   | 90       |
| 3) Chloromethane             | 2.113          | 50   | 8269       | 2.794    | ug/l   | 93       |
| 4) Vinyl Chloride            | 2.260          | 62   | 7314       | 2.699    | ug/l   | 99       |
| 5) Bromomethane              | 2.656          | 94   | 8707       | 2.452    | ug/l   | 98       |
| 6) Chloroethane              | 2.802          | 64   | 7496       | 2.546    | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 12363      | 3.284    | ug/l   | 98       |
| 8) Diethyl Ether             | 3.528          | 74   | 8554       | 5.278    | ug/l   | 63       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906          | 101  | 12444      | 4.872    | ug/l   | 93       |
| 10) Methyl Iodide            | 4.088          | 142  | 20456      | 5.306    | ug/l # | 87       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 5900       | 23.383   | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 12562      | 5.006    | ug/l # | 71       |
| 13) Acrolein                 | 3.723          | 56   | 3976       | 25.338   | ug/l   | 95       |
| 14) Allyl chloride           | 4.473          | 41   | 17219      | 4.803    | ug/l # | 84       |
| 15) Acrylonitrile            | 5.155          | 53   | 18091      | 23.080   | ug/l   | 96       |
| 16) Acetone                  | 3.948          | 43   | 14639      | 24.658   | ug/l # | 74       |
| 17) Carbon Disulfide         | 4.192          | 76   | 30935      | 4.710    | ug/l   | 97       |
| 18) Methyl Acetate           | 4.479          | 43   | 13868      | 6.523    | ug/l # | 85       |
| 19) Methyl tert-butyl Ether  | 5.210          | 73   | 26356      | 4.975    | ug/l # | 89       |
| 20) Methylene Chloride       | 4.716          | 84   | 17008      | 4.971    | ug/l # | 69       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 14217      | 4.612    | ug/l # | 79       |
| 22) Diisopropyl ether        | 6.119          | 45   | 35978      | 4.411    | ug/l # | 89       |
| 23) Vinyl Acetate            | 6.058          | 43   | 95773      | 17.659   | ug/l # | 89       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 23795      | 4.590    | ug/l   | 99       |
| 25) 2-Butanone               | 6.984          | 43   | 21202      | 21.520   | ug/l # | 83       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 16111      | 4.676    | ug/l   | 89       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 16144      | 4.576    | ug/l   | 79       |
| 28) Bromochloromethane       | 7.332          | 49   | 9355       | 4.607    | ug/l # | 64       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 14289      | 21.917   | ug/l # | 77       |
| 30) Chloroform               | 7.502          | 83   | 24954      | 4.601    | ug/l   | 96       |
| 31) Cyclohexane              | 7.789          | 56   | 22984      | 5.006    | ug/l # | 59       |
| 32) 1,1,1-Trichloroethane    | 7.698          | 97   | 20184      | 4.512    | ug/l   | 94       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 18789      | 5.003    | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.070          | 43   | 10349      | 5.116    | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 18781      | 5.008    | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.179          | 83   | 23393      | 4.678    | ug/l   | 88       |
| 40) Benzene                  | 8.155          | 78   | 55419      | 5.059    | ug/l   | 97       |

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 Data File : VY008655.D  
 Acq On : 09 May 2022 10:00  
 Operator : KP/MD  
 Sample : VSTDIC005  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 05/10/2022  
 Supervised By :Semsettin Yesilyurt 05/10/2022

Quant Time: May 09 12:41:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050922S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 09 12:39:51 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.320  | 41   | 5291m    | 5.179   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 14467    | 4.556   | ug/l   | 88       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 17479    | 4.692   | ug/l # | 84       |
| 44) Trichloroethene           | 8.941  | 130  | 15756    | 4.935   | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 13780    | 5.034   | ug/l   | 98       |
| 46) Dibromomethane            | 9.307  | 93   | 8755     | 4.689   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 19150    | 4.778   | ug/l # | 95       |
| 48) Methyl methacrylate       | 9.289  | 41   | 7207     | 4.254   | ug/l # | 76       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 2119     | 103.194 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 46285    | 22.610  | ug/l # | 86       |
| 52) Toluene                   | 10.246 | 92   | 34878    | 4.597   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 20112    | 4.335   | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 23048    | 4.800   | ug/l # | 77       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 12135    | 4.494   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 14258    | 4.118   | ug/l # | 74       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 20108    | 4.635   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 38221    | 23.777  | ug/l # | 89       |
| 59) 2-Hexanone                | 10.831 | 43   | 31408    | 21.551  | ug/l   | 82       |
| 60) Dibromochloromethane      | 10.984 | 129  | 14501    | 4.635   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 12168    | 4.751   | ug/l   | 96       |
| 64) Tetrachloroethene         | 10.721 | 164  | 14643    | 5.406   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.514 | 112  | 39044    | 4.906   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 14162    | 4.862   | ug/l   | 92       |
| 67) Ethyl Benzene             | 11.593 | 91   | 65871    | 4.723   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 52523    | 8.572   | ug/l   | 90       |
| 69) o-Xylene                  | 12.026 | 106  | 24736    | 4.102   | ug/l   | 92       |
| 70) Styrene                   | 12.044 | 104  | 39771    | 3.877   | ug/l   | 94       |
| 71) Bromoform                 | 12.209 | 173  | 9269     | 4.325   | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.331 | 105  | 63463    | 4.286   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 14945    | 4.026   | ug/l # | 83       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 14750    | 4.849   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 11053m   | 5.557   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 16813    | 5.087   | ug/l   | 88       |
| 78) n-propylbenzene           | 12.672 | 91   | 74733    | 4.695   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 43148    | 5.049   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 51668    | 4.912   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 4904     | 4.583   | ug/l # | 78       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 45601    | 5.104   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 46226    | 4.788   | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 50931    | 4.774   | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 68932    | 4.784   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 55321    | 4.582   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 32333    | 5.066   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 32916    | 5.172   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.703 | 91   | 52106    | 4.652   | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 11103    | 4.691   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 28451    | 5.053   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 2363     | 5.047   | ug/l   | 76       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 18066    | 4.957   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 9853     | 5.128   | ug/l   | 95       |
| 95) Naphthalene               | 15.239 | 128  | 36668    | 4.696   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 15444    | 4.787   | ug/l   | 94       |

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Sample : VSTDICC005  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 05/10/2022  
Supervised By :Semsettin Yesilyurt 05/10/2022

Quant Time: May 09 12:41:19 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050922S.M  
Quant Title : SW846 8260  
QLast Update : Mon May 09 12:39:51 2022  
Response via : Initial Calibration

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

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

