

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY040822\  
 Data File : VY008260.D  
 Acq On : 08 Apr 2022 15:26  
 Operator : KP/MD  
 Sample : VSTDICC010  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC010

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 04/11/2022  
 Supervised By :Semsettin Yesilyurt 04/11/2022

Quant Time: Apr 08 15:39:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y040822S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 08 15:38:38 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 103971     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 187470     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 179333     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 86812      | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 12186      | 11.957   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 23.920%# |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 12683      | 11.173   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 22.340%# |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 42874      | 10.696   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 21.400%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 16376      | 11.209   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 22.420%# |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 10349      | 11.949   | ug/l   | 97       |
| 3) Chloromethane             | 2.113          | 50   | 14472      | 12.513   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.253          | 62   | 18053      | 11.700   | ug/l   | 96       |
| 5) Bromomethane              | 2.650          | 94   | 18030      | 13.362   | ug/l   | 94       |
| 6) Chloroethane              | 2.796          | 64   | 12627      | 11.696   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 20069      | 10.844   | ug/l   | 91       |
| 8) Diethyl Ether             | 3.528          | 74   | 7801       | 12.033   | ug/l   | 74       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906          | 101  | 13111      | 10.891   | ug/l   | 93       |
| 10) Methyl Iodide            | 4.088          | 142  | 9628       | 7.617    | ug/l   | 91       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 6315       | 57.604   | ug/l # | 92       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 12089      | 11.368   | ug/l   | 81       |
| 13) Acrolein                 | 3.729          | 56   | 3489       | 41.535   | ug/l   | 97       |
| 14) Allyl chloride           | 4.473          | 41   | 15742      | 11.314   | ug/l # | 92       |
| 15) Acrylonitrile            | 5.168          | 53   | 18192      | 57.025   | ug/l   | 99       |
| 16) Acetone                  | 3.954          | 43   | 13638      | 56.173   | ug/l # | 85       |
| 17) Carbon Disulfide         | 4.192          | 76   | 31677      | 11.234   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.479          | 43   | 8454       | 10.472   | ug/l # | 78       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 37489      | 11.387   | ug/l   | 92       |
| 20) Methylene Chloride       | 4.716          | 84   | 21564      | 13.469   | ug/l # | 81       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 14917      | 11.717   | ug/l # | 80       |
| 22) Diisopropyl ether        | 6.112          | 45   | 38023      | 11.488   | ug/l # | 93       |
| 23) Vinyl Acetate            | 6.058          | 43   | 120002     | 58.623   | ug/l # | 89       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 24226      | 11.460   | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 21556      | 56.644   | ug/l # | 83       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 21086      | 10.779   | ug/l   | 94       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 17089      | 11.176   | ug/l   | 80       |
| 28) Bromochloromethane       | 7.332          | 49   | 8338       | 10.122   | ug/l # | 77       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 14014      | 56.979   | ug/l # | 71       |
| 30) Chloroform               | 7.509          | 83   | 26200      | 11.211   | ug/l   | 98       |
| 31) Cyclohexane              | 7.789          | 56   | 21552      | 11.672   | ug/l # | 79       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 22079      | 10.696   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 18698      | 10.321   | ug/l   | 94       |
| 37) Ethyl Acetate            | 7.076          | 43   | 10448      | 11.414   | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 18835      | 9.695    | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 24234      | 10.392   | ug/l   | 88       |
| 40) Benzene                  | 8.161          | 78   | 58245      | 10.936   | ug/l   | 97       |

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 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC010

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 Quant Title : SW846 8260  
 QLast Update : Fri Apr 08 15:38:38 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 4761     | 6.605   | ug/l # | 1        |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 16927    | 10.938  | ug/l   | 91       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 18572    | 10.853  | ug/l # | 84       |
| 44) Trichloroethene           | 8.941  | 130  | 15753    | 10.230  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 13990    | 10.700  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 9234     | 10.599  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.496  | 83   | 20048    | 10.343  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 7731     | 10.773  | ug/l # | 73       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 2366     | 214.537 | ug/l # | 78       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 47435    | 54.006  | ug/l # | 85       |
| 52) Toluene                   | 10.246 | 92   | 36533    | 10.305  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 21001    | 10.679  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 23359    | 10.536  | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 13282    | 10.862  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 16015    | 10.715  | ug/l # | 73       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 21337    | 10.814  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 31770    | 51.499  | ug/l # | 88       |
| 59) 2-Hexanone                | 10.831 | 43   | 32298    | 53.322  | ug/l   | 81       |
| 60) Dibromochloromethane      | 10.984 | 129  | 14402    | 10.088  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 12759    | 10.832  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.721 | 164  | 13111    | 9.814   | ug/l   | 93       |
| 65) Chlorobenzene             | 11.520 | 112  | 41453    | 10.366  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 14836    | 10.044  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 70435    | 10.296  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 54419    | 20.047  | ug/l   | 93       |
| 69) o-Xylene                  | 12.032 | 106  | 26455    | 10.060  | ug/l   | 92       |
| 70) Styrene                   | 12.044 | 104  | 42781    | 9.887   | ug/l   | 94       |
| 71) Bromoform                 | 12.209 | 173  | 8417     | 9.469   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 67342    | 10.062  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 15405    | 10.756  | ug/l # | 81       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 15142    | 10.697  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 9891m    | 8.380   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 16605    | 10.233  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.672 | 91   | 82236    | 10.433  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 46488    | 10.471  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 55225    | 10.128  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 4301     | 9.801   | ug/l   | 86       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 47886    | 10.621  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 50240    | 10.218  | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 55062    | 10.208  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.258 | 105  | 75198    | 10.374  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 60797    | 10.045  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 32007    | 9.957   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 32595    | 10.267  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.703 | 91   | 56811    | 10.370  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 11124    | 9.812   | ug/l   | 82       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 29199    | 10.226  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 2113     | 10.594  | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 16987    | 10.296  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 8293     | 9.675   | ug/l   | 95       |
| 95) Naphthalene               | 15.239 | 128  | 35664    | 10.199  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.434 | 180  | 14778    | 10.292  | ug/l   | 98       |

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 ALS Vial : 12 Sample Multiplier: 1

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**APPROVED**

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

