

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081022\  
 Data File : VY009953.D  
 Acq On : 10 Aug 2022 16:09  
 Operator : KP/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 08/11/2022  
 Supervised By :Semsettin Yesilyurt 08/11/2022

Quant Time: Aug 10 17:03:27 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081022S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 10 17:00:31 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.783          | 168  | 78908      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 132177     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 117574     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 59681      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.130          | 65   | 29473      | 40.699   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 81.400%  |        |          |
| 35) Dibromofluoromethane     | 7.710          | 113  | 34219      | 47.379   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 94.760%  |        |          |
| 50) Toluene-d8               | 10.173         | 98   | 107640     | 42.203   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 84.400%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 53864      | 53.120   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 106.240% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 28879      | 43.351   | ug/l   | 95       |
| 3) Chloromethane             | 2.101          | 50   | 31259      | 38.965   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.235          | 62   | 33908      | 40.613   | ug/l   | 96       |
| 5) Bromomethane              | 2.637          | 94   | 24614      | 42.888   | ug/l   | 97       |
| 6) Chloroethane              | 2.778          | 64   | 24732      | 47.843   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.107          | 101  | 67290      | 48.083   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.515          | 74   | 25707      | 51.524   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.881          | 101  | 43002      | 52.488   | ug/l   | 94       |
| 10) Methyl Iodide            | 4.076          | 142  | 52513      | 56.183   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 17713      | 202.536  | ug/l # | 95       |
| 12) 1,1-Dichloroethene       | 3.857          | 96   | 42092      | 55.164   | ug/l   | 96       |
| 13) Acrolein                 | 3.717          | 56   | 29878      | 1038.454 | ug/l   | 99       |
| 14) Allyl chloride           | 4.466          | 41   | 71496      | 51.147   | ug/l   | 96       |
| 15) Acrylonitrile            | 5.149          | 53   | 65933      | 249.783  | ug/l   | 98       |
| 16) Acetone                  | 3.936          | 43   | 44607      | 209.519  | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.180          | 76   | 137075     | 56.791   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.466          | 43   | 31915      | 42.581   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.210          | 73   | 111418     | 52.821   | ug/l   | 98       |
| 20) Methylene Chloride       | 4.698          | 84   | 49461      | 34.432   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.204          | 96   | 48169      | 55.405   | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.106          | 45   | 152777     | 51.893   | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.045          | 43   | 484840     | 264.592  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.003          | 63   | 81918      | 51.244   | ug/l   | 98       |
| 25) 2-Butanone               | 6.972          | 43   | 80686      | 226.208  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 64935      | 47.394   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.972          | 96   | 54048      | 54.646   | ug/l   | 96       |
| 28) Bromochloromethane       | 7.320          | 49   | 36843      | 62.863   | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.338          | 42   | 56830      | 241.274  | ug/l   | 99       |
| 30) Chloroform               | 7.496          | 83   | 82074      | 51.030   | ug/l   | 96       |
| 31) Cyclohexane              | 7.777          | 56   | 81009      | 52.773   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.691          | 97   | 69639      | 51.381   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.905          | 75   | 66564      | 54.526   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.063          | 43   | 38312      | 48.239   | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 7.893          | 117  | 63113      | 52.446   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.173          | 83   | 82297      | 57.178   | ug/l   | 94       |
| 40) Benzene                  | 8.149          | 78   | 199159     | 54.389   | ug/l   | 99       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.295  | 41   | 21334    | 49.091  | ug/l # | 100      |
| 42) 1,2-Dichloroethane        | 8.228  | 62   | 51748    | 51.184  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.264  | 43   | 68504    | 48.658  | ug/l   | 99       |
| 44) Trichloroethene           | 8.935  | 130  | 50826    | 53.542  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.209  | 63   | 49932    | 52.679  | ug/l   | 99       |
| 46) Dibromomethane            | 9.295  | 93   | 28099    | 53.111  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.490  | 83   | 62690    | 51.669  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.289  | 41   | 29958    | 47.775  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.289  | 88   | 5475     | 931.735 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.063 | 43   | 191179   | 245.718 | ug/l   | 100      |
| 52) Toluene                   | 10.240 | 92   | 123873   | 54.479  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.459 | 75   | 66865    | 52.544  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 77783    | 53.517  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 39307    | 51.510  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 54159    | 55.118  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 66238    | 51.776  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 139291   | 297.227 | ug/l   | 97       |
| 59) 2-Hexanone                | 10.825 | 43   | 131054   | 247.993 | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.977 | 129  | 44973    | 51.164  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.081 | 107  | 36940    | 51.081  | ug/l   | 96       |
| 64) Tetrachloroethene         | 10.715 | 164  | 46952    | 53.922  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.508 | 112  | 125109   | 53.116  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 46831    | 54.640  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.587 | 91   | 238562   | 57.974  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.697 | 106  | 191122   | 120.148 | ug/l   | 96       |
| 69) o-Xylene                  | 12.026 | 106  | 88712    | 59.815  | ug/l   | 95       |
| 70) Styrene                   | 12.038 | 104  | 153599   | 60.128  | ug/l   | 100      |
| 71) Bromoform                 | 12.203 | 173  | 28433    | 54.300  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.325 | 105  | 228176   | 56.297  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 67595    | 52.181  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 47265    | 51.225  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 32505m   | 49.627  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 52081    | 53.530  | ug/l   | 90       |
| 78) n-propylbenzene           | 12.666 | 91   | 289415   | 56.366  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 160531   | 55.797  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 194119   | 57.268  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.374 | 75   | 17210    | 52.883  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 165530   | 54.679  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 161543   | 55.600  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 182231   | 54.936  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 247541   | 55.314  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 202886   | 55.956  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 102959   | 52.862  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 103030   | 52.049  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.690 | 91   | 197871   | 55.692  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.959 | 117  | 40621    | 53.501  | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.733 | 146  | 91701    | 51.863  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 6908     | 47.506  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 52918    | 52.572  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 27853    | 49.174  | ug/l   | 98       |
| 95) Naphthalene               | 15.233 | 128  | 113986   | 54.412  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 45628    | 51.119  | ug/l   | 98       |

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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

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