

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122223\  
 Data File : VY016805.D  
 Acq On : 22 Dec 2023 14:02  
 Operator : SY/MD  
 Sample : VY1222SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1222SBS01

Quant Time: Dec 22 22:57:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:49:45 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/26/2023  
 Supervised By :Semsettin Yesilyurt 12/26/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.813          | 168  | 136941              | 50.000  | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene      | 8.716          | 114  | 237820              | 50.000  | ug/l   | 0.01     |
| 63) Chlorobenzene-d5         | 11.514         | 117  | 207684              | 50.000  | ug/l   | 0.01     |
| 72) 1,4-Dichlorobenzene-d4   | 13.446         | 152  | 89708               | 50.000  | ug/l   | 0.01     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.167          | 65   | 76258               | 61.000  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 122.000% |         |        |          |
| 35) Dibromofluoromethane     | 7.746          | 113  | 80615               | 59.176  | ug/l   | 0.02     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 118.360% |         |        |          |
| 50) Toluene-d8               | 10.203         | 98   | 289805              | 59.012  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 118.020% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.501         | 95   | 93873               | 58.919  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 117.840% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.918          | 85   | 27028               | 23.095  | ug/l   | 93       |
| 3) Chloromethane             | 2.131          | 50   | 40344               | 22.427  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.272          | 62   | 45392               | 22.340  | ug/l   | 100      |
| 5) Bromomethane              | 2.668          | 94   | 33255               | 22.979  | ug/l   | 98       |
| 6) Chloroethane              | 2.814          | 64   | 31532               | 22.902  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.149          | 101  | 55609               | 23.494  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.558          | 74   | 17309               | 22.860  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.924          | 101  | 34883               | 24.024  | ug/l   | 100      |
| 10) Methyl Iodide            | 4.125          | 142  | 28961               | 19.141  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.972          | 59   | 14860               | 144.977 | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 3.899          | 96   | 29896               | 23.125  | ug/l   | 99       |
| 13) Acrolein                 | 3.753          | 56   | 12050               | 152.369 | ug/l   | 96       |
| 14) Allyl chloride           | 4.509          | 41   | 46419               | 23.442  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.198          | 53   | 40736               | 127.039 | ug/l   | 98       |
| 16) Acetone                  | 3.972          | 43   | 48659               | 143.941 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.222          | 76   | 73025               | 20.760  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.503          | 43   | 32012               | 24.232  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.253          | 73   | 77158               | 23.195  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.747          | 84   | 40148               | 21.158  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.253          | 96   | 33902               | 22.993  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.149          | 45   | 111040              | 24.787  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.094          | 43   | 259517              | 122.486 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.051          | 63   | 65897               | 24.487  | ug/l   | 97       |
| 25) 2-Butanone               | 7.015          | 43   | 61894               | 132.982 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.015          | 77   | 55672               | 23.707  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.015          | 96   | 39881               | 23.502  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.362          | 49   | 22989               | 21.584  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.380          | 42   | 31917               | 125.412 | ug/l   | 98       |
| 30) Chloroform               | 7.533          | 83   | 68312               | 24.797  | ug/l   | 98       |
| 31) Cyclohexane              | 7.813          | 56   | 52457               | 21.901  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.728          | 97   | 56734               | 23.461  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.941          | 75   | 49911               | 22.853  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.106          | 43   | 23274               | 24.863  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.929          | 117  | 48816               | 22.588  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.209          | 83   | 53418               | 21.185  | ug/l   | 97       |
| 40) Benzene                  | 8.185          | 78   | 147824              | 23.260  | ug/l   | 99       |

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Manual Integrations  
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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         | 7.338  | 41   | 12656    | 25.464  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.264  | 62   | 40183    | 24.235  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.295  | 43   | 41646    | 22.906  | ug/l   | 99       |
| 44) Trichloroethene           | 8.965  | 130  | 36617    | 22.574  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.240  | 63   | 38202    | 23.963  | ug/l   | 98       |
| 46) Dibromomethane            | 9.331  | 93   | 19516    | 23.696  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.520  | 83   | 51620    | 23.780  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.313  | 41   | 22988    | 22.750  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.325  | 88   | 3844     | 480.882 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.093 | 43   | 116004   | 119.751 | ug/l   | 99       |
| 52) Toluene                   | 10.264 | 92   | 88128    | 23.139  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.483 | 75   | 45890    | 23.184  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.953  | 75   | 56150    | 23.518  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.666 | 97   | 28040    | 23.863  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.532 | 69   | 23393    | 22.640  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.813 | 76   | 47380    | 23.739  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.807  | 63   | 62970    | 113.285 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.855 | 43   | 88992    | 123.202 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.008 | 129  | 31685    | 23.309  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.111 | 107  | 24498    | 23.248  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.740 | 164  | 28231    | 21.882  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.538 | 112  | 93812    | 22.991  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.611 | 131  | 34734    | 22.624  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.611 | 91   | 167327   | 22.279  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.727 | 106  | 125564   | 45.275  | ug/l   | 100      |
| 69) o-Xylene                  | 12.050 | 106  | 56970    | 22.391  | ug/l   | 98       |
| 70) Styrene                   | 12.069 | 104  | 84341    | 22.402  | ug/l   | 99       |
| 71) Bromoform                 | 12.227 | 173  | 16609    | 21.700  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.349 | 105  | 157812   | 22.588  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.166 | 43   | 32337    | 22.054  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.605 | 83   | 32157    | 23.033  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.654 | 75   | 24057m   | 24.259  | ug/l   |          |
| 77) Bromobenzene              | 12.629 | 156  | 33957    | 22.279  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.690 | 91   | 193872   | 22.903  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.776 | 91   | 107522   | 22.955  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.831 | 105  | 127095   | 22.981  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.398 | 75   | 8798     | 20.835  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.873 | 91   | 108680   | 22.617  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.093 | 119  | 108896   | 22.637  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.142 | 105  | 126731   | 23.239  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.276 | 105  | 164759   | 23.123  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.392 | 119  | 134317   | 22.636  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.385 | 146  | 67729    | 22.738  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.465 | 146  | 66261    | 22.782  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.715 | 91   | 130992   | 23.093  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.983 | 117  | 28115    | 22.754  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.757 | 146  | 57269    | 22.569  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.379 | 75   | 4068     | 22.478  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.025 | 180  | 30014    | 22.291  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.129 | 225  | 17265    | 22.576  | ug/l   | 99       |
| 95) Naphthalene               | 15.257 | 128  | 52036    | 20.256  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.446 | 180  | 24952    | 21.759  | ug/l   | 99       |

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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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