

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY070721\  
 Data File : VY005361.D  
 Acq On : 07 Jul 2021 13:17  
 Operator : SY/MD  
 Sample : VY0707SBS01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0707SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/8/2021 6:44:51 PM

Quant Time: Jul 08 02:03:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062221S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 07:57:52 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| -----                        |        |       |          |          |       |          |
| Internal Standards           |        |       |          |          |       |          |
| 1) Pentafluorobenzene        | 7.795  | 168   | 249949   | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697  | 114   | 363670   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.496 | 117   | 339940   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428 | 152   | 179594   | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.149  | 65    | 121757   | 58.700   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =     | 117.400% |
| 35) Dibromofluoromethane     | 7.728  | 113   | 112139   | 52.285   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =     | 104.580% |
| 50) Toluene-d8               | 10.185 | 98    | 446218   | 52.024   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | =     | 104.040% |
| 62) 4-Bromofluorobenzene     | 12.483 | 95    | 152537   | 53.370   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | =     | 106.740% |
| Target Compounds             |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.906  | 85    | 35297    | 21.476   | ug/l  | 97       |
| 3) Chloromethane             | 2.119  | 50    | 50739    | 23.180   | ug/l  | 97       |
| 4) Vinyl Chloride            | 2.253  | 62    | 61291    | 24.490   | ug/l  | 99       |
| 5) Bromomethane              | 2.637  | 94    | 48878    | 30.791   | ug/l  | 98       |
| 6) Chloroethane              | 2.790  | 64    | 42478    | 25.955   | ug/l  | 99       |
| 7) Trichlorofluoromethane    | 3.125  | 101   | 77318    | 23.110   | ug/l  | 99       |
| 8) Diethyl Ether             | 3.534  | 74    | 27231    | 21.756   | ug/l  | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899  | 101   | 45899    | 22.408   | ug/l  | 98       |
| 10) Methyl Iodide            | 4.094  | 142   | 46462    | 15.946   | ug/l  | 98       |
| 11) Tert butyl alcohol       | 4.972  | 59    | 39980    | 124.219  | ug/l  | 97       |
| 12) 1,1-Dichloroethene       | 3.875  | 96    | 44217    | 21.366   | ug/l  | 93       |
| 13) Acrolein                 | 3.741  | 56    | 11622    | 114.031  | ug/l  | 95       |
| 14) Allyl chloride           | 4.485  | 41    | 68156    | 22.928   | ug/l  | 93       |
| 15) Acrylonitrile            | 5.180  | 53    | 66006    | 113.526  | ug/l  | 99       |
| 16) Acetone                  | 3.960  | 43    | 55096    | 114.982  | ug/l  | 96       |
| 17) Carbon Disulfide         | 4.198  | 76    | 136970   | 21.043   | ug/l  | 100      |
| 18) Methyl Acetate           | 4.491  | 43    | 30774    | 24.166   | ug/l  | 94       |
| 19) Methyl tert-butyl Ether  | 5.235  | 73    | 122733   | 21.692   | ug/l  | 100      |
| 20) Methylene Chloride       | 4.729  | 84    | 63524    | 19.770   | ug/l  | 95       |
| 21) trans-1,2-Dichloroethene | 5.222  | 96    | 50498    | 21.914   | ug/l  | 98       |
| 22) Diisopropyl ether        | 6.131  | 45    | 152925   | 24.747   | ug/l  | 96       |
| 23) Vinyl Acetate            | 6.070  | 43    | 479511   | 119.909  | ug/l  | 96       |
| 24) 1,1-Dichloroethane       | 6.027  | 63    | 88253    | 23.011   | ug/l  | 99       |
| 25) 2-Butanone               | 7.003  | 43    | 82840    | 118.562  | ug/l  | 93       |
| 26) 2,2-Dichloropropane      | 6.990  | 77    | 76563    | 22.893   | ug/l  | 97       |
| 27) cis-1,2-Dichloroethene   | 6.990  | 96    | 55669    | 21.480   | ug/l  | 94       |
| 28) Bromochloromethane       | 7.344  | 49    | 36991    | 24.107   | ug/l  | 86       |
| 29) Tetrahydrofuran          | 7.356  | 42    | 54609    | 118.792  | ug/l  | 94       |
| 30) Chloroform               | 7.515  | 83    | 89297    | 22.880   | ug/l  | 99       |
| 31) Cyclohexane              | 7.789  | 56    | 82414    | 22.256   | ug/l  | 96       |
| 32) 1,1,1-Trichloroethane    | 7.710  | 97    | 77391    | 22.233   | ug/l  | 97       |
| 36) 1,1-Dichloropropene      | 7.923  | 75    | 69724    | 21.773   | ug/l  | 98       |
| 37) Ethyl Acetate            | 7.088  | 43    | 37674    | 22.814   | ug/l  | 99       |
| 38) Carbon Tetrachloride     | 7.905  | 117   | 70328    | 20.979   | ug/l  | 100      |
| 39) Methylcyclohexane        | 9.185  | 83    | 84052    | 20.281   | ug/l  | 95       |
| 40) Benzene                  | 8.167  | 78    | 202710   | 21.467   | ug/l  | 98       |

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 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 07:57:52 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.320  | 41   | 18977    | 20.720  | ug/l # | 100      |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 59802    | 23.316  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 69239    | 22.811  | ug/l   | 96       |
| 44) Trichloroethene           | 8.947  | 130  | 55560    | 20.811  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 51430    | 22.761  | ug/l   | 98       |
| 46) Dibromomethane            | 9.313  | 93   | 28430    | 21.635  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.502  | 83   | 68825    | 22.338  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 30747    | 23.089  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 8118     | 469.788 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 186461   | 117.364 | ug/l   | 95       |
| 52) Toluene                   | 10.246 | 92   | 129807   | 21.507  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 72702    | 21.556  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 83419    | 21.938  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 42073    | 21.925  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 54201    | 20.807  | ug/l # | 89       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 71109    | 22.124  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 138960   | 120.947 | ug/l   | 97       |
| 59) 2-Hexanone                | 10.837 | 43   | 127707   | 116.871 | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.990 | 129  | 50335    | 21.413  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 39888    | 21.369  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 51472    | 20.519  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 141715   | 21.033  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 52377    | 20.944  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 241771   | 20.809  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 195005   | 41.893  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 91741    | 20.814  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 155712   | 21.010  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 34609    | 20.338  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 237409   | 20.381  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 63044    | 22.869  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 49756    | 21.678  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 33499m   | 21.032  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 63187    | 20.443  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.672 | 91   | 291489   | 21.222  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 163557   | 21.109  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 198859   | 20.637  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 17075    | 20.001  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 171432   | 21.386  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 175546   | 20.434  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 199652   | 20.957  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 262376   | 20.993  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 222096   | 20.596  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 123175   | 20.873  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 123080   | 21.091  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 200527   | 21.168  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.965 | 117  | 41483    | 21.295  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 109070   | 20.849  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 8341     | 21.817  | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 71891    | 19.498  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 45906    | 19.894  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 126430   | 18.578  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 63928    | 19.687  | 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

