

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY060420\  
 Data File : VY002837.D  
 Acq On : 04 Jun 2020 13:06  
 Operator : SY/MD  
 Sample : VY0604SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0604SBS01

Quant Time: Jun 04 16:32:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y052720S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 13:13:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 340148   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 505007   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 463642   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 247986   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.14  | 65   | 139983   | 47.40 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.80% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 146910   | 49.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.28% |          |
| 50) Toluene-d8              | 10.18 | 98   | 564449   | 47.17 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.34% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 198855   | 48.63 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.26% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85   | 49819    | 21.286  | ug/l  | 98     |
| 3) Chloromethane              | 2.12 | 50   | 55830    | 21.566  | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.26 | 62   | 60793    | 22.217  | ug/l  | 99     |
| 5) Bromomethane               | 2.65 | 94   | 43165    | 21.050  | ug/l  | 95     |
| 6) Chloroethane               | 2.79 | 64   | 38192    | 21.531  | ug/l  | 97     |
| 7) Trichlorofluoromethane     | 3.13 | 101  | 102863   | 21.225  | ug/l  | 98     |
| 8) Diethyl Ether              | 3.54 | 74   | 38730    | 20.467  | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.90 | 101  | 65125    | 22.633  | ug/l  | 99     |
| 10) Methyl Iodide             | 4.10 | 142  | 83432    | 20.722  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 4.96 | 59   | 38484    | 114.304 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 3.88 | 96   | 63985    | 22.112  | ug/l  | 94     |
| 13) Acrolein                  | 3.74 | 56   | 31385    | 90.680  | ug/l  | 100    |
| 14) Allyl chloride            | 4.49 | 41   | 94996    | 22.889  | ug/l  | 97     |
| 15) Acrylonitrile             | 5.18 | 53   | 95511    | 111.881 | ug/l  | 99     |
| 16) Acetone                   | 3.96 | 43   | 73955    | 106.788 | ug/l  | 99     |
| 17) Carbon Disulfide          | 4.19 | 76   | 185744   | 21.242  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.48 | 43   | 46239    | 26.147  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 5.22 | 73   | 173912   | 21.770  | ug/l  | 98     |
| 20) Methylene Chloride        | 4.72 | 84   | 80703    | 23.846  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 5.22 | 96   | 70684    | 21.721  | ug/l  | 99     |
| 22) Diisopropyl ether         | 6.12 | 45   | 197954   | 22.953  | ug/l  | 94     |
| 23) Vinyl Acetate             | 6.07 | 43   | 641169   | 112.604 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 6.03 | 63   | 112042   | 22.208  | ug/l  | 99     |
| 25) 2-Butanone                | 6.99 | 43   | 119840   | 111.068 | ug/l  | 96     |
| 26) 2,2-Dichloropropane       | 6.99 | 77   | 103619   | 21.415  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 6.99 | 96   | 78838    | 21.641  | ug/l  | 100    |
| 28) Bromochloromethane        | 7.34 | 49   | 46888    | 22.640  | ug/l  | 96     |
| 29) Tetrahydrofuran           | 7.35 | 42   | 78615    | 112.013 | ug/l  | 100    |
| 30) Chloroform                | 7.52 | 83   | 117289   | 21.909  | ug/l  | 96     |
| 31) Cyclohexane               | 7.79 | 56   | 108228   | 21.607  | ug/l  | 94     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97   | 105725   | 21.193  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 7.92 | 75   | 92226    | 21.680  | ug/l  | 100    |
| 37) Ethyl Acetate             | 7.08 | 43   | 53113    | 22.948  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 7.90 | 117  | 98890    | 20.925  | ug/l  | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Wed May 27 13:13:33 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.18  | 83   | 119705   | 21.348  | ug/l   | 99       |
| 40) Benzene                    | 8.16  | 78   | 272741   | 21.698  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.33  | 41   | 33422m   | 26.879  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 74432    | 21.129  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.28  | 43   | 97743    | 22.285  | ug/l   | 99       |
| 44) Trichloroethene            | 8.94  | 130  | 83042    | 20.915  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 66293    | 21.992  | ug/l   | 99       |
| 46) Dibromomethane             | 9.31  | 93   | 39156    | 21.872  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.50  | 83   | 92704    | 21.966  | ug/l   | 95       |
| 48) Methyl methacrylate        | 9.30  | 41   | 43805    | 22.124  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.31  | 88   | 11270    | 409.997 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 258380   | 111.250 | ug/l   | 99       |
| 52) Toluene                    | 10.24 | 92   | 175691   | 21.366  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 99343    | 21.551  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 112517   | 21.541  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 58828    | 21.464  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 78731    | 21.447  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 99201    | 22.006  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 189039   | 105.388 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.83 | 43   | 181300   | 110.020 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 75104    | 21.614  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 58868    | 21.774  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.72 | 164  | 86830    | 20.606  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.52 | 112  | 195006   | 21.280  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 73896    | 21.411  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.59 | 91   | 340423   | 21.428  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.70 | 106  | 264394   | 42.924  | ug/l   | 99       |
| 69) o-Xylene                   | 12.03 | 106  | 125505   | 21.583  | ug/l   | 99       |
| 70) Styrene                    | 12.05 | 104  | 217217   | 21.549  | ug/l   | 100      |
| 71) Bromoform                  | 12.21 | 173  | 49887    | 21.602  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.33 | 105  | 342440   | 21.548  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 90724    | 22.249  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 65502    | 23.491  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 50899m   | 22.778  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 87457    | 21.135  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.67 | 91   | 400987   | 21.844  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 220199   | 21.384  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 286000   | 21.554  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 26533    | 22.371  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 233903   | 21.680  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 254092   | 21.467  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 288485   | 21.622  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 351483   | 21.718  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 327890   | 21.774  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 167845   | 21.413  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 168957   | 21.548  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.70 | 91   | 297670   | 21.772  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.96 | 117  | 61671    | 21.876  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 153910   | 21.651  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 11554    | 21.538  | ug/l   | 99       |

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Quant Title : SW846 8260  
QLast Update : Wed May 27 13:13:33 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 115402   | 21.538 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 65001    | 21.389 | ug/l  | 100      |
| 95) Naphthalene            | 15.23 | 128  | 229542   | 21.367 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 104264   | 21.791 | ug/l  | 98       |

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

