

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY022420\  
 Data File : VY001767.D  
 Acq On : 24 Feb 2020 12:55  
 Operator : SY/MD  
 Sample : VY0224SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0224SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 2/25/2020 10:53:59 AM

Quant Time: Feb 24 14:35:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y021720S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 17 12:19:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 193946   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 343894   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 312637   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 142588   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 102884   | 49.32 | ug/l  | -0.02    |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      | Recovery | =     |       | 98.64%   |
| 35) Dibromofluoromethane    | 7.73  | 113  | 92128    | 46.77 | ug/l  | -0.02    |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      | Recovery | =     |       | 93.54%   |
| 50) Toluene-d8              | 10.18 | 98   | 384398   | 49.81 | ug/l  | -0.01    |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      | Recovery | =     |       | 99.62%   |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 135611   | 45.24 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      | Recovery | =     |       | 90.48%   |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85   | 31600    | 16.715  | ug/l   | 100    |
| 3) Chloromethane              | 2.12 | 50   | 46738    | 18.380  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.26 | 62   | 44698    | 17.428  | ug/l   | 97     |
| 5) Bromomethane               | 2.65 | 94   | 29264    | 18.256  | ug/l   | 96     |
| 6) Chloroethane               | 2.80 | 64   | 28527    | 18.050  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.13 | 101  | 62099    | 18.918  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.54 | 74   | 25690    | 19.852  | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91 | 101  | 41209    | 19.973  | ug/l   | 96     |
| 10) Methyl Iodide             | 4.10 | 142  | 42893    | 16.987  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.96 | 59   | 34275    | 129.626 | ug/l # | 84     |
| 12) 1,1-Dichloroethene        | 3.88 | 96   | 40890    | 19.431  | ug/l   | 96     |
| 13) Acrolein                  | 3.74 | 56   | 19443    | 92.281  | ug/l   | 99     |
| 14) Allyl chloride            | 4.49 | 41   | 74506    | 19.894  | ug/l   | 96     |
| 15) Acrylonitrile             | 5.19 | 53   | 67497    | 101.759 | ug/l   | 99     |
| 16) Acetone                   | 3.96 | 43   | 61638    | 85.390  | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.21 | 76   | 126747   | 18.041  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.50 | 43   | 33928    | 21.583  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 5.24 | 73   | 112917   | 19.273  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.73 | 84   | 50018    | 19.508  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.24 | 96   | 45551    | 18.972  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.13 | 45   | 151567   | 19.707  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.08 | 43   | 485311   | 96.737  | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.04 | 63   | 81224    | 19.759  | ug/l   | 99     |
| 25) 2-Butanone                | 7.00 | 43   | 92194    | 94.019  | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 6.99 | 77   | 67825    | 18.965  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.00 | 96   | 51295    | 19.355  | ug/l   | 100    |
| 28) Bromochloromethane        | 7.35 | 49   | 32037    | 18.709  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 7.36 | 42   | 58747    | 99.120  | ug/l   | 97     |
| 30) Chloroform                | 7.52 | 83   | 75975    | 18.915  | ug/l   | 97     |
| 31) Cyclohexane               | 7.79 | 56   | 84830    | 19.355  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97   | 63950    | 18.944  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.93 | 75   | 62792    | 19.116  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.09 | 43   | 38109    | 19.438  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 7.91 | 117  | 55273    | 19.157  | ug/l   | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Mon Feb 17 12:19:53 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 83645    | 19.194  | ug/l   | 98       |
| 40) Benzene                    | 8.17  | 78   | 187264   | 19.384  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.34  | 41   | 23170m   | 23.537  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.25  | 62   | 51596    | 19.604  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 71503    | 19.222  | ug/l   | 100      |
| 44) Trichloroethene            | 8.95  | 130  | 45531    | 18.879  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 47548    | 19.652  | ug/l   | 99       |
| 46) Dibromomethane             | 9.32  | 93   | 24627    | 19.461  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.50  | 83   | 57598    | 18.859  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.30  | 41   | 32698    | 19.436  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 6917     | 386.995 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 189972   | 99.397  | ug/l   | 99       |
| 52) Toluene                    | 10.25 | 92   | 115631   | 19.188  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 64368    | 19.064  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 75362    | 19.393  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.65 | 97   | 36471    | 19.545  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 52797    | 18.861  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 65244    | 19.678  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.79  | 63   | 144014   | 127.422 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.83 | 43   | 135200   | 94.279  | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.99 | 129  | 38631    | 18.778  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 33981    | 19.260  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.72 | 164  | 36871    | 18.787  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.52 | 112  | 118202   | 18.937  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 39418    | 18.721  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.60 | 91   | 222525   | 19.211  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.70 | 106  | 163980   | 37.898  | ug/l   | 100      |
| 69) o-Xylene                   | 12.03 | 106  | 77916    | 18.941  | ug/l   | 97       |
| 70) Styrene                    | 12.05 | 104  | 134119   | 18.761  | ug/l   | 99       |
| 71) Bromoform                  | 12.21 | 173  | 22122    | 18.385  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.33 | 105  | 208958   | 19.236  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 66656    | 19.227  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 45370    | 19.561  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 34783m   | 21.265  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 45469    | 19.309  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.67 | 91   | 259951   | 19.649  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.76 | 91   | 145324   | 19.585  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 175076   | 19.470  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 16241    | 18.838  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 150192   | 19.192  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 146090   | 19.426  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 173404   | 19.343  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 217432   | 19.658  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 189410   | 19.712  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.37 | 146  | 87778    | 19.220  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 87201    | 18.889  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.70 | 91   | 194332   | 19.793  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.96 | 117  | 34097    | 18.834  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 79884    | 18.954  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 7485     | 19.554  | ug/l   | 91       |

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Sample : VY0224SBSD01  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

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MSVOA\_Y  
ClientSampleId :  
VY0224SBSD01

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Quant Title : SW846 8260  
QLast Update : Mon Feb 17 12:19:53 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 51661    | 18.497 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 26309    | 18.941 | ug/l  | 96       |
| 95) Naphthalene            | 15.24 | 128  | 118760   | 18.442 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 46335    | 18.857 | ug/l  | 97       |

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

