

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY052220\  
 Data File : VY002750.D  
 Acq On : 22 May 2020 11:33  
 Operator : SY/MD  
 Sample : VY0522SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0522SBS01

Quant Time: May 22 16:47:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y051520S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 16 04:52:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 335653   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 492904   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 455790   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 242192   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 140660   | 53.57 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.14% |      |
| 35) Dibromofluoromethane  | 7.73   | 113 | 147145   | 54.09 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.18% |      |
| 50) Toluene-d8            | 10.18  | 98  | 588897   | 53.77 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.54% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 199756   | 53.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.14% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.90 | 85  | 48131  | 20.011  | ug/l | 98     |
| 3) Chloromethane              | 2.12 | 50  | 56974  | 20.684  | ug/l | 96     |
| 4) Vinyl Chloride             | 2.26 | 62  | 60081  | 20.932  | ug/l | 100    |
| 5) Bromomethane               | 2.64 | 94  | 41373  | 19.448  | ug/l | 98     |
| 6) Chloroethane               | 2.79 | 64  | 36504  | 19.888  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.13 | 101 | 95457  | 19.734  | ug/l | 97     |
| 8) Diethyl Ether              | 3.54 | 74  | 32515  | 19.760  | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.90 | 101 | 57350  | 19.559  | ug/l | 100    |
| 10) Methyl Iodide             | 4.10 | 142 | 77966  | 19.318  | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.97 | 59  | 29678  | 111.305 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 3.88 | 96  | 59097  | 20.073  | ug/l | 97     |
| 13) Acrolein                  | 3.74 | 56  | 28304  | 90.504  | ug/l | 97     |
| 14) Allyl chloride            | 4.49 | 41  | 84468  | 19.984  | ug/l | 99     |
| 15) Acrylonitrile             | 5.17 | 53  | 80893  | 108.569 | ug/l | 100    |
| 16) Acetone                   | 3.96 | 43  | 57436  | 106.120 | ug/l | 97     |
| 17) Carbon Disulfide          | 4.20 | 76  | 177782 | 19.251  | ug/l | 100    |
| 18) Methyl Acetate            | 4.49 | 43  | 35641  | 23.096  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.23 | 73  | 152950 | 20.944  | ug/l | 99     |
| 20) Methylene Chloride        | 4.72 | 84  | 66405  | 20.297  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.22 | 96  | 65293  | 19.944  | ug/l | 96     |
| 22) Diisopropyl ether         | 6.13 | 45  | 174000 | 20.749  | ug/l | 99     |
| 23) Vinyl Acetate             | 6.07 | 43  | 558418 | 103.995 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.03 | 63  | 102505 | 20.456  | ug/l | 99     |
| 25) 2-Butanone                | 6.99 | 43  | 97610  | 109.000 | ug/l | 95     |
| 26) 2,2-Dichloropropane       | 6.99 | 77  | 93757  | 20.109  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.00 | 96  | 71512  | 20.216  | ug/l | 99     |
| 28) Bromochloromethane        | 7.35 | 49  | 42885  | 21.634  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.36 | 42  | 67189  | 110.274 | ug/l | 99     |
| 30) Chloroform                | 7.52 | 83  | 107413 | 20.653  | ug/l | 98     |
| 31) Cyclohexane               | 7.79 | 56  | 99737  | 19.624  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97  | 97817  | 20.355  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 7.93 | 75  | 84097  | 20.154  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.08 | 43  | 45132  | 21.991  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.91 | 117 | 91119  | 20.318  | ug/l | 99     |

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 Sample : VY0522SBSD01  
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 Quant Title : SW846 8260  
 QLast Update : Sat May 16 04:52:36 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 110720   | 19.734  | ug/l   | 97       |
| 40) Benzene                    | 8.17  | 78   | 248781   | 20.434  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.33  | 41   | 26054m   | 21.130  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 66108    | 20.587  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 82544    | 21.642  | ug/l   | 99       |
| 44) Trichloroethene            | 8.94  | 130  | 79383    | 20.455  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 58471    | 20.235  | ug/l   | 96       |
| 46) Dibromomethane             | 9.31  | 93   | 33802    | 20.821  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.50  | 83   | 81356    | 20.534  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.30  | 41   | 36998    | 21.068  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 9992     | 451.910 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 220935   | 112.195 | ug/l   | 99       |
| 52) Toluene                    | 10.25 | 92   | 160910   | 20.423  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 88664    | 20.966  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 101964   | 20.798  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 50850    | 21.039  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 68099    | 21.164  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 86059    | 21.248  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 172660   | 108.697 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.83 | 43   | 154287   | 112.458 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 65424    | 21.189  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 50701    | 21.292  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.72 | 164  | 89646    | 20.717  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.52 | 112  | 176114   | 19.996  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 66259    | 20.270  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.60 | 91   | 313112   | 20.247  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.70 | 106  | 244093   | 40.571  | ug/l   | 99       |
| 69) o-Xylene                   | 12.03 | 106  | 114535   | 20.283  | ug/l   | 99       |
| 70) Styrene                    | 12.04 | 104  | 197180   | 20.338  | ug/l   | 99       |
| 71) Bromoform                  | 12.21 | 173  | 41807    | 20.691  | ug/l # | 96       |
| 73) Isopropylbenzene           | 12.33 | 105  | 313802   | 19.829  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 77650    | 20.910  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 48680    | 20.889  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 42227m   | 21.225  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 79269    | 20.035  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.67 | 91   | 365948   | 19.878  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 201362   | 19.721  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 262318   | 19.727  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 22735    | 21.611  | ug/l # | 80       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 212352   | 19.854  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.08 | 119  | 231086   | 19.636  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 264380   | 19.894  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 322207   | 19.841  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 301477   | 19.834  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 151958   | 19.920  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 150551   | 19.823  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.70 | 91   | 273666   | 19.605  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.96 | 117  | 55111    | 19.575  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 137723   | 20.131  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 9862     | 22.068  | ug/l   | 94       |

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Sample : VY0522SBSD01  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
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Quant Title : SW846 8260  
QLast Update : Sat May 16 04:52:36 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 101053   | 18.483 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 60123    | 18.084 | ug/l  | 99       |
| 95) Naphthalene            | 15.23 | 128  | 187115   | 19.859 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 87123    | 18.630 | ug/l  | 100      |

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

