

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050420\  
 Data File : VY002531.D  
 Acq On : 04 May 2020 11:35  
 Operator : SY/MD  
 Sample : VY0504SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0504SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 5/5/2020 11:29:03 AM

Quant Time: May 04 14:42:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 380566   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 557537   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 506250   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 266320   | 50.00 | ug/l  | -0.01    |

## System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 163338   | 51.05 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.10% |       |
| 35) Dibromofluoromethane  | 7.72   | 113 | 165538   | 51.92 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.84% |       |
| 50) Toluene-d8            | 10.18  | 98  | 644667   | 51.77 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.54% |       |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 220142   | 52.10 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.20% |       |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 46183  | 15.947  | ug/l | 97     |
| 3) Chloromethane              | 2.12 | 50  | 56643  | 18.371  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.26 | 62  | 63329  | 17.788  | ug/l | 97     |
| 5) Bromomethane               | 2.63 | 94  | 43859  | 17.864  | ug/l | 97     |
| 6) Chloroethane               | 2.79 | 64  | 39930  | 18.783  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.13 | 101 | 105072 | 19.042  | ug/l | 98     |
| 8) Diethyl Ether              | 3.54 | 74  | 37193  | 20.058  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91 | 101 | 64430  | 19.105  | ug/l | 98     |
| 10) Methyl Iodide             | 4.10 | 142 | 84884  | 18.475  | ug/l | 100    |
| 11) Tert butyl alcohol        | 4.97 | 59  | 36042  | 109.480 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.88 | 96  | 62545  | 19.091  | ug/l | 100    |
| 13) Acrolein                  | 3.74 | 56  | 19647  | 86.303  | ug/l | 92     |
| 14) Allyl chloride            | 4.49 | 41  | 94374  | 19.771  | ug/l | 98     |
| 15) Acrylonitrile             | 5.18 | 53  | 92099  | 105.324 | ug/l | 99     |
| 16) Acetone                   | 3.96 | 43  | 72136  | 109.234 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.20 | 76  | 174378 | 17.693  | ug/l | 98     |
| 18) Methyl Acetate            | 4.49 | 43  | 45162  | 20.468  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.23 | 73  | 173989 | 20.356  | ug/l | 97     |
| 20) Methylene Chloride        | 4.72 | 84  | 78647  | 21.297  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.23 | 96  | 69432  | 19.391  | ug/l | 95     |
| 22) Diisopropyl ether         | 6.13 | 45  | 197476 | 20.446  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.07 | 43  | 622714 | 102.521 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.03 | 63  | 113055 | 19.786  | ug/l | 98     |
| 25) 2-Butanone                | 7.00 | 43  | 115365 | 106.720 | ug/l | 95     |
| 26) 2,2-Dichloropropane       | 6.99 | 77  | 107439 | 19.782  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 6.99 | 96  | 77657  | 19.600  | ug/l | 99     |
| 28) Bromochloromethane        | 7.34 | 49  | 47895  | 20.459  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.36 | 42  | 74955  | 104.801 | ug/l | 99     |
| 30) Chloroform                | 7.52 | 83  | 118723 | 19.983  | ug/l | 100    |
| 31) Cyclohexane               | 7.79 | 56  | 108456 | 18.857  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97  | 109059 | 19.750  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.93 | 75  | 92404  | 19.770  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.08 | 43  | 51095  | 21.274  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.91 | 117 | 100953 | 19.784  | ug/l | 97     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 117771   | 19.077  | ug/l   | 98       |
| 40) Benzene                    | 8.17  | 78   | 267060   | 19.783  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.34  | 41   | 35656m   | 27.611  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 76963    | 20.326  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.28  | 43   | 94197    | 20.920  | ug/l   | 99       |
| 44) Trichloroethene            | 8.94  | 130  | 85254    | 20.209  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 65043    | 19.964  | ug/l   | 100      |
| 46) Dibromomethane             | 9.31  | 93   | 38511    | 20.545  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.50  | 83   | 92553    | 20.306  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.30  | 41   | 42843    | 21.024  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 11264    | 453.845 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 252057   | 108.605 | ug/l   | 99       |
| 52) Toluene                    | 10.25 | 92   | 172424   | 19.875  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 97902    | 20.501  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 111978   | 20.283  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 55857    | 20.434  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 76577    | 21.058  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 94843    | 20.459  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 204959   | 106.877 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.83 | 43   | 172164   | 107.779 | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.99 | 129  | 72422    | 20.831  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 55788    | 20.611  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.72 | 164  | 94435    | 20.995  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.52 | 112  | 192845   | 20.038  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 72744    | 20.363  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.60 | 91   | 336135   | 19.884  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.70 | 106  | 259608   | 39.690  | ug/l   | 98       |
| 69) o-Xylene                   | 12.03 | 106  | 123476   | 20.161  | ug/l   | 99       |
| 70) Styrene                    | 12.05 | 104  | 213236   | 20.367  | ug/l   | 99       |
| 71) Bromoform                  | 12.21 | 173  | 47193    | 21.284  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.33 | 105  | 340224   | 19.712  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.14 | 43   | 87313    | 21.029  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 54458    | 19.839  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 48058m   | 20.306  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 85708    | 19.875  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.67 | 91   | 394180   | 19.679  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 218163   | 19.663  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 284228   | 19.866  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 24381    | 20.657  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 229112   | 19.658  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.08 | 119  | 251929   | 20.082  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 284357   | 19.943  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 348157   | 20.000  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 323420   | 19.829  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 163865   | 20.077  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 162691   | 20.131  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.70 | 91   | 296361   | 19.959  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.96 | 117  | 59360    | 19.984  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 148176   | 20.346  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 11204    | 21.896  | ug/l   | 97       |

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QLast Update : Mon May 04 12:22:08 2020  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 111370   | 21.064 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 66100    | 20.827 | ug/l  | 99       |
| 95) Naphthalene            | 15.24 | 128  | 204699   | 21.222 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 96455    | 21.489 | ug/l  | 99       |

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

