

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY032420\  
 Data File : VY002044.D  
 Acq On : 24 Mar 2020 12:50  
 Operator : SY/MD  
 Sample : VY0324SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0324SBS01

Manual Integrations  
 APPROVED

apatel  
 3/25/2020 10:38:00 AM

Quant Time: Mar 24 15:38:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 154028   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 281291   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 254265   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 120536   | 50.00 | ug/l  | -0.01    |

## System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 8.16   | 65  | 91884    | 55.88 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 111.76% |       |
| 35) Dibromofluoromethane  | 7.74   | 113 | 87308    | 56.84 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.68% |       |
| 50) Toluene-d8            | 10.19  | 98  | 343614   | 53.05 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.10% |       |
| 62) 4-Bromofluorobenzene  | 12.49  | 95  | 125737   | 55.83 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 111.66% |       |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 27828  | 19.573  | ug/l | 95     |
| 3) Chloromethane              | 2.12 | 50  | 38840  | 20.262  | ug/l | 94     |
| 4) Vinyl Chloride             | 2.26 | 62  | 38765  | 19.881  | ug/l | 98     |
| 5) Bromomethane               | 2.65 | 94  | 25935  | 19.164  | ug/l | 94     |
| 6) Chloroethane               | 2.80 | 64  | 25589  | 20.892  | ug/l | 94     |
| 7) Trichlorofluoromethane     | 3.14 | 101 | 56641  | 21.420  | ug/l | 99     |
| 8) Diethyl Ether              | 3.54 | 74  | 23875  | 22.908  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91 | 101 | 36696  | 21.576  | ug/l | 98     |
| 10) Methyl Iodide             | 4.11 | 142 | 41758  | 21.231  | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.98 | 59  | 20460  | 106.615 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 3.89 | 96  | 37105  | 21.667  | ug/l | 99     |
| 13) Acrolein                  | 3.76 | 56  | 18679  | 80.837  | ug/l | 98     |
| 14) Allyl chloride            | 4.50 | 41  | 68391  | 22.527  | ug/l | 99     |
| 15) Acrylonitrile             | 5.19 | 53  | 66856  | 120.046 | ug/l | 98     |
| 16) Acetone                   | 3.96 | 43  | 55043  | 114.928 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.21 | 76  | 111179 | 19.312  | ug/l | 100    |
| 18) Methyl Acetate            | 4.49 | 43  | 29907  | 24.303  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.25 | 73  | 109374 | 23.568  | ug/l | 99     |
| 20) Methylene Chloride        | 4.74 | 84  | 47986  | 23.378  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.24 | 96  | 42077  | 21.647  | ug/l | 93     |
| 22) Diisopropyl ether         | 6.14 | 45  | 142696 | 22.930  | ug/l | 97     |
| 23) Vinyl Acetate             | 6.08 | 43  | 470501 | 115.327 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.04 | 63  | 75619  | 22.439  | ug/l | 98     |
| 25) 2-Butanone                | 7.01 | 43  | 86600  | 118.903 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 7.00 | 77  | 61513  | 22.239  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.01 | 96  | 47900  | 22.655  | ug/l | 100    |
| 28) Bromochloromethane        | 7.35 | 49  | 34318  | 22.592  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.37 | 42  | 56721  | 117.276 | ug/l | 100    |
| 30) Chloroform                | 7.53 | 83  | 72476  | 22.890  | ug/l | 100    |
| 31) Cyclohexane               | 7.80 | 56  | 74771  | 20.693  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.72 | 97  | 60652  | 22.728  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 7.94 | 75  | 59029  | 21.807  | ug/l | 98     |
| 37) Ethyl Acetate             | 7.10 | 43  | 37981  | 24.142  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 7.92 | 117 | 50800  | 21.969  | ug/l | 98     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 74967    | 20.881  | ug/l   | 99       |
| 40) Benzene                    | 8.18  | 78   | 175155   | 21.831  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.34  | 41   | 19181m   | 27.091  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.25  | 62   | 47779    | 23.110  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 70779    | 23.763  | ug/l   | 98       |
| 44) Trichloroethene            | 8.95  | 130  | 42318    | 21.657  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.23  | 63   | 45602    | 22.610  | ug/l   | 98       |
| 46) Dibromomethane             | 9.32  | 93   | 23912    | 23.007  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.50  | 83   | 56034    | 23.176  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.30  | 41   | 30514    | 23.087  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.31  | 88   | 6589     | 462.656 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 182832   | 119.172 | ug/l   | 100      |
| 52) Toluene                    | 10.25 | 92   | 107239   | 22.003  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 61679    | 23.416  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.94  | 75   | 71221    | 22.713  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.65 | 97   | 34757    | 22.850  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.52 | 69   | 51926    | 23.290  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.80 | 76   | 62088    | 22.899  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.79  | 63   | 131816   | 157.193 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.84 | 43   | 131207   | 119.821 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 37653    | 23.492  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.10 | 107  | 33448    | 23.214  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.72 | 164  | 35480    | 22.251  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.52 | 112  | 112032   | 22.113  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.60 | 131  | 37823    | 22.766  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.60 | 91   | 207090   | 21.917  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.71 | 106  | 155106   | 44.401  | ug/l   | 100      |
| 69) o-Xylene                   | 12.03 | 106  | 72235    | 21.939  | ug/l   | 100      |
| 70) Styrene                    | 12.05 | 104  | 128371   | 22.764  | ug/l   | 99       |
| 71) Bromoform                  | 12.21 | 173  | 21160    | 23.485  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.33 | 105  | 196666   | 21.373  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.14 | 43   | 63581    | 22.483  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 44431    | 22.392  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 33352m   | 23.319  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 42477    | 21.789  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.67 | 91   | 244885   | 21.572  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.76 | 91   | 135405   | 21.590  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 163923   | 21.640  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 16090    | 22.724  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 143310   | 21.946  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.08 | 119  | 137440   | 21.845  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 167255   | 22.249  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 205604   | 22.171  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 176676   | 22.085  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.37 | 146  | 86141    | 22.549  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 84028    | 21.682  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.70 | 91   | 182253   | 21.959  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.96 | 117  | 32380    | 21.455  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 78076    | 22.496  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 7172     | 23.163  | ug/l   | 96       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.01 | 180  | 50163    | 22.287 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 24895    | 22.687 | ug/l  | 99       |
| 95) Naphthalene            | 15.24 | 128  | 119182   | 22.324 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 45179    | 22.786 | ug/l  | 100      |

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

