

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042621\  
 Data File : VY004622.D  
 Acq On : 26 Apr 2021 12:19  
 Operator : SY/MD  
 Sample : VY0426SBS01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0426SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/27/2021 3:36:44 PM

Quant Time: Apr 27 09:30:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 13 03:38:02 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                        |                |      |                    |       |        |          |
| Internal Standards           |                |      |                    |       |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 135110             | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 214531             | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.495         | 117  | 190809             | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.434         | 152  | 87956              | 50.00 | ug/l   | 0.00     |
|                              |                |      |                    |       |        |          |
| System Monitoring Compounds  |                |      |                    |       |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.154          | 65   | 79900              | 53.23 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 106.46% |       |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 65964              | 55.41 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 110.82% |       |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 271309             | 53.57 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 107.14% |       |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 88311              | 51.39 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 102.78% |       |        |          |
|                              |                |      |                    |       |        |          |
| Target Compounds             |                |      |                    |       | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 23364              | 18.66 | ug/l   | 98       |
| 3) Chloromethane             | 2.119          | 50   | 36499              | 20.16 | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.259          | 62   | 48842              | 25.55 | ug/l   | 99       |
| 5) Bromomethane              | 2.655          | 94   | 21613              | 23.17 | ug/l   | 95       |
| 6) Chloroethane              | 2.802          | 64   | 24626              | 21.48 | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 50807              | 21.25 | ug/l   | 99       |
| 8) Diethyl Ether             | 3.539          | 74   | 16421              | 20.32 | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.911          | 101  | 28593              | 21.56 | ug/l   | 99       |
| 10) Methyl Iodide            | 4.106          | 142  | 29021              | 18.28 | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.978          | 59   | 11806              | 79.80 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 26832              | 20.46 | ug/l   | 98       |
| 13) Acrolein                 | 3.741          | 56   | 12340              | 75.03 | ug/l   | 98       |
| 14) Allyl chloride           | 4.497          | 41   | 51173              | 20.40 | ug/l   | 98       |
| 15) Acrylonitrile            | 5.179          | 53   | 41353              | 95.38 | ug/l   | 99       |
| 16) Acetone                  | 3.966          | 43   | 29344              | 78.94 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.204          | 76   | 82171              | 20.35 | ug/l   | 98       |
| 18) Methyl Acetate           | 4.497          | 43   | 19036              | 18.21 | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 78144              | 19.83 | ug/l   | 96       |
| 20) Methylene Chloride       | 4.734          | 84   | 35282              | 24.33 | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.234          | 96   | 30960              | 20.86 | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.130          | 45   | 108023             | 20.37 | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.076          | 43   | 354583             | 98.24 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 56046              | 20.69 | ug/l   | 99       |
| 25) 2-Butanone               | 7.002          | 43   | 50278              | 87.93 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.996          | 77   | 51815              | 21.32 | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.002          | 96   | 34815              | 20.97 | ug/l   | 98       |
| 28) Bromochloromethane       | 7.350          | 49   | 24409              | 19.83 | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.362          | 42   | 35557              | 87.03 | ug/l   | 100      |
| 30) Chloroform               | 7.514          | 83   | 56490              | 21.22 | ug/l   | 99       |
| 31) Cyclohexane              | 7.795          | 56   | 53966              | 19.61 | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.715          | 97   | 51717              | 21.42 | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 44882              | 21.05 | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.088          | 43   | 26769              | 19.50 | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 41677              | 22.62 | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.191          | 83   | 54741              | 20.86 | ug/l   | 97       |
| 40) Benzene                  | 8.173          | 78   | 127241             | 21.24 | ug/l   | 100      |

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 ALS Vial : 4 Sample Multiplier: 1

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Quant Time: Apr 27 09:30:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 13 03:38:02 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 14480m   | 17.41  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 39634    | 21.09  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.282  | 43   | 50563    | 19.43  | ug/l   | 99       |
| 44) Trichloroethene           | 8.947  | 130  | 34609    | 21.19  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.221  | 63   | 32923    | 21.29  | ug/l   | 98       |
| 46) Dibromomethane            | 9.313  | 93   | 17918    | 21.29  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.508  | 83   | 44035    | 21.61  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.301  | 41   | 23053    | 19.24  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 3696     | 336.19 | ug/l   | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43   | 128210   | 95.91  | ug/l   | 99       |
| 52) Toluene                   | 10.252 | 92   | 79701    | 20.56  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 46578    | 20.72  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 53416    | 20.92  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 23900    | 20.61  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 32007    | 19.03  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 42461    | 20.51  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.788  | 63   | 83314    | 96.81  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.837 | 43   | 82730    | 92.32  | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.989 | 129  | 28501    | 20.68  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 23371    | 20.90  | ug/l   | 95       |
| 64) Tetrachloroethene         | 10.727 | 164  | 35828    | 21.57  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.520 | 112  | 81546    | 20.94  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131  | 29363    | 21.13  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.599 | 91   | 151467   | 20.79  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.709 | 106  | 112934   | 41.72  | ug/l   | 100      |
| 69) o-Xylene                  | 12.038 | 106  | 52289    | 20.61  | ug/l   | 100      |
| 70) Styrene                   | 12.050 | 104  | 85579    | 20.37  | ug/l   | 98       |
| 71) Bromoform                 | 12.215 | 173  | 16405    | 19.90  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.337 | 105  | 142902   | 21.03  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 43416    | 18.97  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 25087    | 19.51  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.641 | 75   | 20995m   | 22.24  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 31977    | 20.99  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.678 | 91   | 172296   | 21.46  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.763 | 91   | 93036    | 21.19  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105  | 119864   | 21.70  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.385 | 75   | 10007    | 18.96  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 96540    | 20.82  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.080 | 119  | 97887    | 20.70  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 117635   | 21.10  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.257 | 105  | 140411   | 21.29  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 124848   | 20.81  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 59363    | 20.86  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.452 | 146  | 58845    | 20.54  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.702 | 91   | 119413   | 20.85  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.964 | 117  | 18734    | 23.27  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 51793    | 20.51  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75   | 4528     | 19.62  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 32438    | 19.42  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 18117    | 20.78  | ug/l   | 97       |
| 95) Naphthalene               | 15.239 | 128  | 64246    | 17.70  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 28092    | 19.07  | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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