

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY112723\  
 Data File : VY016501.D  
 Acq On : 27 Nov 2023 11:35  
 Operator : SY/MD  
 Sample : VY1127SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 28 00:14:52 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 09 00:45:52 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John  
 Carlone

11/28/2023  
 Supervised By :Mahesh  
 Dadoda

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.801  | 168  | 147192   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.703  | 114  | 226573   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.502 | 117  | 197455   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.440 | 152  | 95470    | 50.000 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |       |          |          |      |          |
|---------------------------|--------|-------|----------|----------|------|----------|
| 33) 1,2-Dichloroethane-d4 | 8.155  | 65    | 62313    | 46.320   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 92.640%  |
| 35) Dibromofluoromethane  | 7.734  | 113   | 72787    | 56.552   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 113.100% |
| 50) Toluene-d8            | 10.191 | 98    | 270681   | 51.861   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 58 - 134 | Recovery | =    | 103.720% |
| 62) 4-Bromofluorobenzene  | 12.495 | 95    | 90387    | 53.320   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 30 - 143 | Recovery | =    | 106.640% |

#### Target Compounds

|                              |       |     |        |         |        | Qvalue |
|------------------------------|-------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.912 | 85  | 32606  | 22.623  | ug/l   | 96     |
| 3) Chloromethane             | 2.119 | 50  | 32206  | 19.080  | ug/l   | 99     |
| 4) Vinyl Chloride            | 2.259 | 62  | 36737  | 20.240  | ug/l   | 94     |
| 5) Bromomethane              | 2.662 | 94  | 23618  | 19.800  | ug/l   | 98     |
| 6) Chloroethane              | 2.802 | 64  | 22949  | 19.815  | ug/l   | 95     |
| 7) Trichlorofluoromethane    | 3.137 | 101 | 60268  | 22.823  | ug/l   | 100    |
| 8) Diethyl Ether             | 3.540 | 74  | 15852  | 20.085  | ug/l   | 84     |
| 9) 1,1,2-Trichlorotrifluo... | 3.911 | 101 | 33800  | 21.251  | ug/l   | 98     |
| 10) Methyl Iodide            | 4.106 | 142 | 36049  | 20.986  | ug/l   | 99     |
| 11) Tert butyl alcohol       | 4.972 | 59  | 8501   | 80.696  | ug/l # | 97     |
| 12) 1,1-Dichloroethene       | 3.887 | 96  | 30923  | 20.790  | ug/l   | 84     |
| 13) Acrolein                 | 3.741 | 56  | 7954   | 62.598  | ug/l   | 99     |
| 14) Allyl chloride           | 4.491 | 41  | 37027  | 17.542  | ug/l # | 87     |
| 15) Acrylonitrile            | 5.186 | 53  | 27375  | 87.403  | ug/l   | 99     |
| 16) Acetone                  | 3.954 | 43  | 29919  | 134.452 | ug/l # | 82     |
| 17) Carbon Disulfide         | 4.210 | 76  | 89763  | 20.001  | ug/l   | 97     |
| 18) Methyl Acetate           | 4.497 | 43  | 19127  | 16.176  | ug/l # | 82     |
| 19) Methyl tert-butyl Ether  | 5.234 | 73  | 67503  | 18.751  | ug/l   | 98     |
| 20) Methylene Chloride       | 4.728 | 84  | 36889  | 21.481  | ug/l # | 81     |
| 21) trans-1,2-Dichloroethene | 5.234 | 96  | 35662  | 20.823  | ug/l   | 87     |
| 22) Diisopropyl ether        | 6.131 | 45  | 79453  | 17.466  | ug/l # | 88     |
| 23) Vinyl Acetate            | 6.076 | 43  | 182759 | 82.915  | ug/l # | 83     |
| 24) 1,1-Dichloroethane       | 6.033 | 63  | 54755  | 19.511  | ug/l # | 96     |
| 25) 2-Butanone               | 7.002 | 43  | 40959  | 105.087 | ug/l   | 92     |
| 26) 2,2-Dichloropropane      | 6.996 | 77  | 52645  | 20.612  | ug/l   | 93     |
| 27) cis-1,2-Dichloroethene   | 7.002 | 96  | 38936  | 21.096  | ug/l   | 86     |
| 28) Bromochloromethane       | 7.350 | 49  | 17873  | 17.208  | ug/l # | 65     |
| 29) Tetrahydrofuran          | 7.362 | 42  | 19678  | 76.383  | ug/l # | 77     |
| 30) Chloroform               | 7.521 | 83  | 62584  | 21.425  | ug/l   | 99     |
| 31) Cyclohexane              | 7.801 | 56  | 48336  | 18.250  | ug/l # | 83     |
| 32) 1,1,1-Trichloroethane    | 7.716 | 97  | 58635  | 21.898  | ug/l   | 95     |
| 36) 1,1-Dichloropropene      | 7.929 | 75  | 47475  | 21.243  | ug/l   | 98     |
| 37) Ethyl Acetate            | 7.088 | 43  | 14872  | 16.469  | ug/l # | 93     |
| 38) Carbon Tetrachloride     | 7.917 | 117 | 54323  | 23.420  | ug/l   | 97     |
| 39) Methylcyclohexane        | 9.197 | 83  | 59336  | 21.307  | ug/l   | 89     |
| 40) Benzene                  | 8.173 | 78  | 135378 | 21.560  | ug/l   | 99     |

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### Manual Integrations APPROVED

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11/28/2023  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.325  | 41   | 7835     | 17.208  | ug/l   | 90       |
| 42) 1,2-Dichloroethane        | 8.252  | 62   | 34313    | 21.091  | ug/l   | 91       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 28932    | 16.575  | ug/l # | 82       |
| 44) Trichloroethene           | 8.953  | 130  | 41680    | 23.097  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.228  | 63   | 30571    | 20.273  | ug/l   | 95       |
| 46) Dibromomethane            | 9.319  | 93   | 17414    | 21.310  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.508  | 83   | 45641    | 21.725  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.307  | 41   | 15956    | 16.540  | ug/l # | 78       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 3262     | 376.004 | ug/l # | 65       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43   | 73924    | 83.752  | ug/l # | 84       |
| 52) Toluene                   | 10.258 | 92   | 87779    | 22.115  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.477 | 75   | 41814    | 20.531  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.941  | 75   | 52013    | 21.382  | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane     | 10.654 | 97   | 24524    | 21.774  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.526 | 69   | 20421    | 19.207  | ug/l # | 79       |
| 57) 1,3-Dichloropropane       | 10.800 | 76   | 40444    | 21.066  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.795  | 63   | 62535    | 86.743  | ug/l # | 88       |
| 59) 2-Hexanone                | 10.843 | 43   | 63964    | 97.426  | ug/l   | 81       |
| 60) Dibromochloromethane      | 10.996 | 129  | 32272    | 22.910  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.099 | 107  | 22838    | 21.283  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.733 | 164  | 42592    | 24.023  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.532 | 112  | 94484    | 22.397  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.605 | 131  | 36641    | 23.548  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.605 | 91   | 166940   | 22.019  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.715 | 106  | 131806   | 45.835  | ug/l   | 91       |
| 69) o-Xylene                  | 12.044 | 106  | 59410    | 22.252  | ug/l   | 97       |
| 70) Styrene                   | 12.056 | 104  | 87605    | 22.915  | ug/l   | 97       |
| 71) Bromoform                 | 12.221 | 173  | 18424    | 22.819  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.343 | 105  | 166095   | 21.484  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.154 | 43   | 23299    | 15.004  | ug/l # | 80       |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83   | 24302    | 19.590  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.648 | 75   | 18955m   | 20.697  | ug/l   |          |
| 77) Bromobenzene              | 12.623 | 156  | 39153    | 22.408  | ug/l   | 88       |
| 78) n-propylbenzene           | 12.684 | 91   | 192759   | 21.098  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.770 | 91   | 107027   | 21.256  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.824 | 105  | 136296   | 21.867  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.392 | 75   | 7989     | 18.934  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 12.867 | 91   | 112457   | 21.615  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.087 | 119  | 119497   | 21.766  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.135 | 105  | 134020   | 21.836  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.263 | 105  | 169759   | 21.643  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.379 | 119  | 148031   | 21.918  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.379 | 146  | 72897    | 21.685  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.458 | 146  | 72264    | 21.996  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.708 | 91   | 129681   | 20.792  | ug/l   | 95       |
| 90) Hexachloroethane          | 13.971 | 117  | 28413    | 21.809  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.751 | 146  | 62347    | 21.644  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75   | 3487     | 17.667  | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 15.019 | 180  | 33788    | 20.095  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.123 | 225  | 22270    | 23.119  | ug/l   | 98       |
| 95) Naphthalene               | 15.251 | 128  | 52708    | 17.527  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.434 | 180  | 26475    | 19.037  | ug/l   | 99       |

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

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

