

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120421\  
 Data File : VY006929.D  
 Acq On : 04 Dec 2021 10:05  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00g/10.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD025895

Quant Time: Dec 05 06:06:22 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\SFAMYLEM120321SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 04 02:26:29 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) 1,4-Difluorobenzene        | 8.691  | 114   | 200258   | 25.000   | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 11.496 | 117   | 185064   | 25.000   | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 92486    | 25.000   | ug/L  | 0.00     |
|                               |        |       |          |          |       |          |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 4) Vinyl Chloride-d3          | 2.253  | 65    | 69326    | 26.879   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =     | 107.520% |
| 7) Chloroethane-d5            | 2.772  | 69    | 47952    | 23.701   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =     | 94.800%  |
| 11) 1,1-Dichloroethene-d2     | 3.857  | 63    | 136631   | 25.482   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =     | 101.920% |
| 21) 2-Butanone-d5             | 6.893  | 46    | 40818    | 40.975   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =     | 81.940%  |
| 24) Chloroform-d              | 7.484  | 84    | 119758   | 23.996   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =     | 96.000%  |
| 26) 1,2-Dichloroethane-d4     | 8.143  | 65    | 69482    | 23.194   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =     | 92.760%  |
| 32) Benzene-d6                | 8.112  | 84    | 237171   | 24.126   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =     | 96.520%  |
| 36) 1,2-Dichloropropane-d6    | 9.124  | 67    | 69026    | 22.348   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =     | 89.400%  |
| 41) Toluene-d8                | 10.185 | 98    | 225963   | 24.542   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =     | 98.160%  |
| 43) trans-1,3-Dichloroprop... | 10.441 | 79    | 36159    | 24.203   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =     | 96.800%  |
| 47) 2-Hexanone-d5             | 10.788 | 63    | 32452    | 45.396   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =     | 90.800%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.563 | 84    | 56981    | 22.143   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =     | 88.560%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.721 | 152   | 70031    | 23.220   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =     | 92.880%  |
|                               |        |       |          |          |       |          |
| Target Compounds              |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.924  | 85    | 25778    | 20.389   | ug/L  | 97       |
| 3) Chloromethane              | 2.119  | 50    | 63787    | 26.284   | ug/L  | 100      |
| 5) Vinyl chloride             | 2.260  | 62    | 98303    | 27.499   | ug/L  | 100      |
| 6) Bromomethane               | 2.668  | 94    | 57151    | 26.450   | ug/L  | 99       |
| 8) Chloroethane               | 2.808  | 64    | 55548    | 26.188   | ug/L  | 96       |
| 9) Trichlorofluoromethane     | 3.131  | 101   | 78914    | 30.398   | ug/L  | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.912  | 101   | 67422    | 26.789   | ug/L  | 97       |
| 12) 1,1-Dichloroethene        | 3.875  | 96    | 74328    | 27.428   | ug/L  | 94       |
| 13) Acetone                   | 3.942  | 43    | 42115    | 46.130   | ug/L  | 99       |
| 14) Carbon disulfide          | 4.198  | 76    | 243068   | 27.208   | ug/L  | 100      |
| 15) Methyl Acetate            | 4.479  | 43    | 46899    | 23.563   | ug/L  | 100      |
| 16) Methylene chloride        | 4.716  | 84    | 79688    | 22.190   | ug/L  | 96       |
| 17) trans-1,2-Dichloroethene  | 5.228  | 96    | 77709    | 26.893   | ug/L  | 97       |
| 18) Methyl tert-butyl Ether   | 5.222  | 73    | 140062   | 26.870   | ug/L  | 99       |
| 19) 1,1-Dichloroethane        | 6.021  | 63    | 141017   | 25.947   | ug/L  | 95       |
| 20) cis-1,2-Dichloroethene    | 6.990  | 96    | 82576    | 26.651   | ug/L  | 96       |
| 22) 2-Butanone                | 6.990  | 43    | 62532    | 48.964   | ug/L  | 100      |
| 23) Bromochloromethane        | 7.338  | 128   | 37950    | 26.841   | ug/L  | 99       |
| 25) Chloroform                | 7.509  | 83    | 147221   | 26.889   | ug/L  | 99       |

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 MSVOA\_Y  
 ClientSampleId :  
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 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 04 02:26:29 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 8.240  | 62   | 103936   | 26.196 | ug/L  | 100      |
| 29) Cyclohexane               | 7.789  | 56   | 137852   | 26.726 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 7.710  | 97   | 130023   | 27.619 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 7.905  | 117  | 124586   | 27.735 | ug/L  | 100      |
| 33) Benzene                   | 8.161  | 78   | 331277   | 26.625 | ug/L  | 100      |
| 34) Trichloroethene           | 8.941  | 95   | 83732    | 27.322 | ug/L  | 96       |
| 35) Methylcyclohexane         | 9.185  | 83   | 150627   | 27.429 | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 9.222  | 63   | 82785    | 25.956 | ug/L  | 98       |
| 38) Bromodichloromethane      | 9.496  | 83   | 110047   | 26.632 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 9.929  | 75   | 133644   | 26.693 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 10.075 | 43   | 138262   | 49.701 | ug/L  | 98       |
| 42) Toluene                   | 10.246 | 91   | 362882   | 27.338 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 10.465 | 75   | 126303   | 26.995 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 10.648 | 97   | 61825    | 26.310 | ug/L  | 97       |
| 46) Tetrachloroethene         | 10.721 | 164  | 71107    | 27.694 | ug/L  | 97       |
| 48) 2-Hexanone                | 10.831 | 43   | 96461    | 52.544 | ug/L  | 100      |
| 49) Dibromochloromethane      | 10.990 | 129  | 76556    | 26.770 | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 11.093 | 107  | 58589    | 26.345 | ug/L  | 98       |
| 51) Chlorobenzene             | 11.520 | 112  | 220070   | 27.184 | ug/L  | 98       |
| 52) Ethylbenzene              | 11.593 | 91   | 390096   | 27.340 | ug/L  | 99       |
| 53) m,p-Xylene                | 11.703 | 106  | 149087   | 27.622 | ug/L  | 100      |
| 54) o-Xylene                  | 12.032 | 106  | 139737   | 27.522 | ug/L  | 93       |
| 55) Styrene                   | 12.044 | 104  | 244138   | 27.483 | ug/L  | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 73036    | 25.759 | ug/L  | 98       |
| 59) Bromoform                 | 12.209 | 173  | 50277    | 26.655 | ug/L  | 99       |
| 60) Isopropylbenzene          | 12.331 | 105  | 372295   | 27.508 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 12.636 | 75   | 57604    | 25.624 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 302761   | 27.207 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 301236   | 27.675 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 13.367 | 146  | 165817   | 27.223 | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 13.447 | 146  | 162980   | 26.258 | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 13.739 | 146  | 147423   | 27.029 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 14.361 | 75   | 12292    | 25.394 | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 14.501 | 180  | 111292   | 26.848 | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 15.007 | 180  | 89644    | 26.813 | ug/L  | 99       |
| 71) Naphthalene               | 15.239 | 128  | 178059   | 26.579 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 73365    | 25.970 | ug/L  | 97       |

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

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