

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102721\  
 Data File : VY006497.D  
 Acq On : 27 Oct 2021 10:24  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_Y/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD025893

Quant Time: Oct 28 05:44:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\SFAMYLEM100521SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 09 00:39:56 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.691  | 114   | 228865   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.490 | 117   | 213254   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 108517   | 25.000   | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.247  | 65    | 98558    | 24.775   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 99.120%  |
| 7) Chloroethane-d5            | 2.765  | 69    | 72070    | 24.477   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 97.920%  |
| 11) 1,1-Dichloroethene-d2     | 3.857  | 63    | 158476   | 24.366   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 97.480%  |
| 21) 2-Butanone-d5             | 6.893  | 46    | 59836    | 56.419   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 112.840% |
| 24) Chloroform-d              | 7.484  | 84    | 148325   | 25.727   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 102.920% |
| 26) 1,2-Dichloroethane-d4     | 8.143  | 65    | 96877    | 25.584   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 102.320% |
| 32) Benzene-d6                | 8.112  | 84    | 312347   | 26.618   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 106.480% |
| 36) 1,2-Dichloropropane-d6    | 9.124  | 67    | 97412    | 28.287   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 113.160% |
| 41) Toluene-d8                | 10.179 | 98    | 293205   | 26.233   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 104.920% |
| 43) trans-1,3-Dichloroprop... | 10.441 | 79    | 47219    | 26.356   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 105.440% |
| 47) 2-Hexanone-d5             | 10.788 | 63    | 43104    | 56.596   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 113.200% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.562 | 84    | 67742    | 25.191   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 100.760% |
| 66) 1,2-Dichlorobenzene-d4    | 13.727 | 152   | 97614    | 26.077   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 104.320% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.906  | 85    | 81302    | 19.001   | ug/L   | 99       |
| 3) Chloromethane              | 2.119  | 50    | 90396    | 21.595   | ug/L   | 96       |
| 5) Vinyl chloride             | 2.253  | 62    | 105722   | 21.589   | ug/L   | 100      |
| 6) Bromomethane               | 2.662  | 94    | 47810    | 21.525   | ug/L   | 95       |
| 8) Chloroethane               | 2.802  | 64    | 59760    | 21.564   | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 3.131  | 101   | 131098   | 21.666   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.912  | 101   | 69560    | 22.762   | ug/L   | 96       |
| 12) 1,1-Dichloroethene        | 3.881  | 96    | 66118    | 22.417   | ug/L   | 94       |
| 13) Acetone                   | 3.948  | 43    | 55528    | 45.827   | ug/L   | 95       |
| 14) Carbon disulfide          | 4.198  | 76    | 202581   | 18.978   | ug/L   | 100      |
| 15) Methyl Acetate            | 4.479  | 43    | 45628    | 24.116   | ug/L # | 81       |
| 16) Methylene chloride        | 4.722  | 84    | 73882    | 18.307   | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 5.222  | 96    | 70657    | 22.804   | ug/L   | 95       |
| 18) Methyl tert-butyl Ether   | 5.228  | 73    | 198054   | 24.437   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 6.021  | 63    | 141288   | 25.158   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 6.990  | 96    | 78474    | 24.163   | ug/L   | 96       |
| 22) 2-Butanone                | 6.990  | 43    | 68724    | 50.955   | ug/L   | 98       |
| 23) Bromochloromethane        | 7.338  | 128   | 34146    | 23.124   | ug/L   | 97       |
| 25) Chloroform                | 7.509  | 83    | 153069   | 24.888   | ug/L   | 99       |

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 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_Y/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

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 MSVOA\_Y  
 ClientSampleId :  
 VSTD025893

Quant Time: Oct 28 05:44:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\SFAMYL100521SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 09 00:39:56 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 8.240  | 62   | 103605   | 23.696 | ug/L   | 97       |
| 29) Cyclohexane               | 7.789  | 56   | 132417   | 24.134 | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane     | 7.704  | 97   | 131674   | 24.319 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 7.905  | 117  | 115642   | 23.600 | ug/L   | 99       |
| 33) Benzene                   | 8.161  | 78   | 314635   | 24.162 | ug/L   | 100      |
| 34) Trichloroethene           | 8.941  | 95   | 81067    | 24.505 | ug/L   | 98       |
| 35) Methylcyclohexane         | 9.185  | 83   | 132251   | 22.889 | ug/L   | 96       |
| 37) 1,2-Dichloropropane       | 9.216  | 63   | 81320    | 26.097 | ug/L   | 99       |
| 38) Bromodichloromethane      | 9.496  | 83   | 107907   | 25.234 | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene   | 9.929  | 75   | 128976   | 26.043 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 10.069 | 43   | 135792   | 54.332 | ug/L   | 99       |
| 42) Toluene                   | 10.246 | 91   | 338399   | 24.033 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 10.465 | 75   | 118098   | 25.259 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 10.642 | 97   | 56953    | 24.745 | ug/L   | 98       |
| 46) Tetrachloroethene         | 10.721 | 164  | 62182    | 22.772 | ug/L   | 95       |
| 48) 2-Hexanone                | 10.831 | 43   | 107110   | 54.924 | ug/L   | 98       |
| 49) Dibromochloromethane      | 10.983 | 129  | 70679    | 24.456 | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 11.087 | 107  | 51657    | 24.066 | ug/L   | 98       |
| 51) Chlorobenzene             | 11.520 | 112  | 204729   | 24.008 | ug/L   | 98       |
| 52) Ethylbenzene              | 11.593 | 91   | 367215   | 24.454 | ug/L   | 100      |
| 53) m,p-Xylene                | 11.703 | 106  | 140093   | 24.366 | ug/L   | 100      |
| 54) o-Xylene                  | 12.032 | 106  | 134610   | 24.433 | ug/L   | 98       |
| 55) Styrene                   | 12.044 | 104  | 236445   | 24.618 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 58359    | 23.253 | ug/L   | 99       |
| 59) Bromoform                 | 12.209 | 173  | 43872    | 23.957 | ug/L # | 98       |
| 60) Isopropylbenzene          | 12.331 | 105  | 365571   | 24.955 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 12.636 | 75   | 53239    | 25.007 | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 303815   | 25.466 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 302877   | 25.724 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 13.367 | 146  | 160918   | 24.509 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 13.446 | 146  | 161622   | 24.480 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 13.739 | 146  | 145748   | 24.427 | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 14.355 | 75   | 11853    | 23.107 | ug/L   | 91       |
| 69) 1,3,5-Trichlorobenzene    | 14.507 | 180  | 116646   | 25.122 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 15.007 | 180  | 93589    | 24.930 | ug/L   | 98       |
| 71) Naphthalene               | 15.239 | 128  | 179981   | 24.543 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 80928    | 24.812 | ug/L   | 99       |

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

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