

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092623\  
 Data File : VD077227.D  
 Acq On : 26 Sep 2023 18:34  
 Operator : JC/SY  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10.0ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD025197

Quant Time: Sep 27 01:31:17 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM092523SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Sep 25 23:07:59 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.781          | 114  | 234130     | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.581         | 117  | 243893     | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.516         | 152  | 136985     | 25.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 2.275          | 65   | 138491     | 22.364   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 89.440%  |        |          |
| 7) Chloroethane-d5            | 2.799          | 69   | 78306      | 20.067   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 80.280%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 3.917          | 65   | 36659      | 21.040   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 110 |      | Recovery = | 84.160%  |        |          |
| 21) 2-Butanone-d5             | 6.981          | 46   | 62182      | 55.422   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 110.840% |        |          |
| 24) Chloroform-d              | 7.569          | 84   | 230415     | 26.099   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 40 - 150 |      | Recovery = | 104.400% |        |          |
| 26) 1,2-Dichloroethane-d4     | 8.234          | 65   | 112962     | 25.722   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 130 |      | Recovery = | 102.880% |        |          |
| 32) Benzene-d6                | 8.205          | 84   | 430396     | 24.295   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 20 - 135 |      | Recovery = | 97.160%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 9.210          | 67   | 136581     | 24.804   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 120 |      | Recovery = | 99.200%  |        |          |
| 41) Toluene-d8                | 10.269         | 98   | 382165     | 24.556   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 98.240%  |        |          |
| 43) trans-1,3-Dichloroprop... | 10.528         | 79   | 53012      | 23.676   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 135 |      | Recovery = | 94.720%  |        |          |
| 47) 2-Hexanone-d5             | 10.875         | 63   | 49530      | 56.230   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 112.460% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651         | 84   | 138547     | 27.847   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 120 |      | Recovery = | 111.400% |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 13.816         | 152  | 137265     | 24.308   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 75 - 120 |      | Recovery = | 97.240%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.928          | 85   | 92873      | 24.392   | ug/L   | 99       |
| 3) Chloromethane              | 2.146          | 50   | 142642     | 28.875   | ug/L   | 98       |
| 5) Vinyl chloride             | 2.281          | 62   | 162840     | 27.679   | ug/L   | 100      |
| 6) Bromomethane               | 2.693          | 94   | 106560     | 29.605   | ug/L   | 95       |
| 8) Chloroethane               | 2.834          | 64   | 67403      | 23.361   | ug/L # | 80       |
| 9) Trichlorofluoromethane     | 3.175          | 101  | 181648     | 29.862   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.964          | 101  | 121158     | 27.866   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 3.940          | 96   | 99331      | 27.378   | ug/L   | 96       |
| 13) Acetone                   | 4.022          | 43   | 61814      | 53.097   | ug/L   | 99       |
| 14) Carbon disulfide          | 4.269          | 76   | 266527     | 28.170   | ug/L   | 100      |
| 15) Methyl Acetate            | 4.558          | 43   | 51478      | 25.892   | ug/L   | 98       |
| 16) Methylene chloride        | 4.799          | 84   | 152531     | 26.160   | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 5.311          | 96   | 113480     | 27.789   | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 5.316          | 73   | 251226     | 26.099   | ug/L # | 87       |
| 19) 1,1-Dichloroethane        | 6.111          | 63   | 208597     | 27.103   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 7.081          | 96   | 133561     | 26.788   | ug/L   | 96       |
| 22) 2-Butanone                | 7.081          | 43   | 78645      | 52.223   | ug/L   | 98       |
| 23) Bromochloromethane        | 7.428          | 128  | 64958      | 27.516   | ug/L   | 88       |
| 25) Chloroform                | 7.599          | 83   | 235652     | 27.669   | ug/L   | 94       |

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 Quant Title : SFAM01.0  
 QLast Update : Mon Sep 25 23:07:59 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 8.328  | 62   | 135817   | 26.954 | ug/L  | 99       |
| 29) Cyclohexane               | 7.881  | 56   | 143539   | 28.930 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 7.793  | 97   | 192380   | 27.229 | ug/L  | 98       |
| 31) Carbon tetrachloride      | 7.987  | 117  | 163553   | 28.642 | ug/L  | 99       |
| 33) Benzene                   | 8.252  | 78   | 495457   | 27.515 | ug/L  | 100      |
| 34) Trichloroethene           | 9.028  | 95   | 122661   | 26.995 | ug/L  | 95       |
| 35) Methylcyclohexane         | 9.275  | 83   | 186866   | 29.530 | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 9.305  | 63   | 132757   | 26.873 | ug/L  | 99       |
| 38) Bromodichloromethane      | 9.587  | 83   | 174777   | 26.621 | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 10.016 | 75   | 200888   | 26.767 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 10.157 | 43   | 151397   | 53.484 | ug/L  | 99       |
| 42) Toluene                   | 10.334 | 91   | 549931   | 28.308 | ug/L  | 95       |
| 44) trans-1,3-Dichloropropene | 10.557 | 75   | 175041   | 26.981 | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 10.734 | 97   | 113055   | 26.874 | ug/L  | 94       |
| 46) Tetrachloroethene         | 10.810 | 164  | 98458    | 27.624 | ug/L  | 97       |
| 48) 2-Hexanone                | 10.922 | 43   | 120713   | 55.607 | ug/L  | 99       |
| 49) Dibromochloromethane      | 11.075 | 129  | 126196   | 26.951 | ug/L  | 96       |
| 50) 1,2-Dibromoethane         | 11.181 | 107  | 106416   | 27.029 | ug/L  | 90       |
| 51) Chlorobenzene             | 11.610 | 112  | 348588   | 26.418 | ug/L  | 96       |
| 52) Ethylbenzene              | 11.681 | 91   | 598264   | 28.407 | ug/L  | 94       |
| 53) m,p-Xylene                | 11.793 | 106  | 226380   | 28.184 | ug/L  | 91       |
| 54) o-Xylene                  | 12.122 | 106  | 221984   | 28.343 | ug/L  | 98       |
| 55) Styrene                   | 12.134 | 104  | 411698   | 28.911 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 139314   | 27.700 | ug/L  | 99       |
| 59) Bromoform                 | 12.298 | 173  | 81898    | 26.555 | ug/L  | 100      |
| 60) Isopropylbenzene          | 12.422 | 105  | 597348   | 27.909 | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 12.728 | 75   | 88026    | 25.374 | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 455549   | 27.837 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 449639   | 27.672 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 13.457 | 146  | 272718   | 26.180 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 13.534 | 146  | 284735   | 26.157 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 13.828 | 146  | 251849   | 26.245 | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 14.445 | 75   | 18723    | 25.223 | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 14.592 | 180  | 180580   | 26.369 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 15.098 | 180  | 147151   | 25.070 | ug/L  | 100      |
| 71) Naphthalene               | 15.334 | 128  | 310391   | 25.547 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 141568   | 25.816 | ug/L  | 98       |

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

