

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD112423\  
 Data File : VD077696.D  
 Acq On : 24 Nov 2023 17:09  
 Operator : JC/SY  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD025222

Quant Time: Nov 27 00:03:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM110923SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Nov 27 00:00:09 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon           | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|----------------|------------|----------|--------|----------|
| Internal Standards            |        |                |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.781  | 114            | 227296     | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.581 | 117            | 213594     | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.516 | 152            | 113224     | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |                |            |          |        |          |
| 4) Vinyl Chloride-d3          | 2.276  | 65             | 141775     | 24.520   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 150 | Recovery = | 98.080%  |        |          |
| 7) Chloroethane-d5            | 2.805  | 69             | 122467     | 26.961   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 150 | Recovery = | 107.840% |        |          |
| 11) 1,1-Dichloroethene-d2     | 3.917  | 65             | 39156      | 21.900   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 45 - 110 | Recovery = | 87.600%  |        |          |
| 21) 2-Butanone-d5             | 6.987  | 46             | 46602      | 46.552   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range 20 - 135 | Recovery = | 93.100%  |        |          |
| 24) Chloroform-d              | 7.569  | 84             | 167030     | 25.439   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 40 - 150 | Recovery = | 101.760% |        |          |
| 26) 1,2-Dichloroethane-d4     | 8.234  | 65             | 91249      | 26.126   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 70 - 130 | Recovery = | 104.520% |        |          |
| 32) Benzene-d6                | 8.205  | 84             | 335429     | 24.196   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 20 - 135 | Recovery = | 96.800%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67             | 105926     | 23.458   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 70 - 120 | Recovery = | 93.840%  |        |          |
| 41) Toluene-d8                | 10.269 | 98             | 304682     | 24.322   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 130 | Recovery = | 97.280%  |        |          |
| 43) trans-1,3-Dichloroprop... | 10.528 | 79             | 46200      | 23.729   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 135 | Recovery = | 94.920%  |        |          |
| 47) 2-Hexanone-d5             | 10.875 | 63             | 37805      | 46.801   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range 20 - 135 | Recovery = | 93.600%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651 | 84             | 77858      | 26.024   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 45 - 120 | Recovery = | 104.080% |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152            | 97293      | 24.154   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range 75 - 120 | Recovery = | 96.600%  |        |          |
| Target Compounds              |        |                |            |          |        |          |
| 2) Dichlorodifluoromethane    | 1.934  | 85             | 65417      | 17.871   | ug/L   | 100      |
| 3) Chloromethane              | 2.152  | 50             | 103399     | 19.634   | ug/L   | 97       |
| 5) Vinyl chloride             | 2.287  | 62             | 121747     | 20.482   | ug/L   | 95       |
| 6) Bromomethane               | 2.699  | 94             | 72782      | 22.999   | ug/L   | 97       |
| 8) Chloroethane               | 2.840  | 64             | 82624      | 22.359   | ug/L   | 93       |
| 9) Trichlorofluoromethane     | 3.181  | 101            | 115870     | 21.420   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.970  | 101            | 70161      | 21.076   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 3.940  | 96             | 63152      | 19.538   | ug/L # | 80       |
| 13) Acetone                   | 4.028  | 43             | 42211      | 40.114   | ug/L   | 97       |
| 14) Carbon disulfide          | 4.275  | 76             | 190045     | 16.328   | ug/L   | 97       |
| 15) Methyl Acetate            | 4.564  | 43             | 37360      | 21.581   | ug/L # | 83       |
| 16) Methylene chloride        | 4.811  | 84             | 77289      | 20.140   | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 5.317  | 96             | 69803      | 20.530   | ug/L   | 100      |
| 18) Methyl tert-butyl Ether   | 5.317  | 73             | 180469     | 22.614   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 6.111  | 63             | 150328     | 22.036   | ug/L   | 96       |
| 20) cis-1,2-Dichloroethene    | 7.081  | 96             | 82118      | 22.230   | ug/L   | 97       |
| 22) 2-Butanone                | 7.081  | 43             | 49919      | 39.427   | ug/L   | 97       |
| 23) Bromochloromethane        | 7.428  | 128            | 34681      | 23.365   | ug/L   | 92       |
| 25) Chloroform                | 7.599  | 83             | 146695     | 23.408   | ug/L   | 99       |

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Quant Time: Nov 27 00:03:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM110923SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Nov 27 00:00:09 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 8.328  | 62   | 99767    | 24.015 | ug/L  | 97       |
| 29) Cyclohexane               | 7.881  | 56   | 113267   | 16.332 | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane     | 7.793  | 97   | 119818   | 21.428 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 7.993  | 117  | 100855   | 20.988 | ug/L  | 96       |
| 33) Benzene                   | 8.252  | 78   | 319120   | 21.545 | ug/L  | 100      |
| 34) Trichloroethene           | 9.028  | 95   | 80093    | 21.822 | ug/L  | 94       |
| 35) Methylcyclohexane         | 9.275  | 83   | 117388   | 17.724 | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 9.305  | 63   | 90203    | 21.906 | ug/L  | 100      |
| 38) Bromodichloromethane      | 9.587  | 83   | 111189   | 23.541 | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 10.016 | 75   | 138851   | 21.944 | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 10.157 | 43   | 108971   | 43.427 | ug/L  | 98       |
| 42) Toluene                   | 10.334 | 91   | 342951   | 22.053 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 10.557 | 75   | 117703   | 22.512 | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 10.734 | 97   | 61579    | 24.465 | ug/L  | 98       |
| 46) Tetrachloroethene         | 10.810 | 164  | 57048    | 21.125 | ug/L  | 98       |
| 48) 2-Hexanone                | 10.922 | 43   | 77820    | 39.126 | ug/L  | 96       |
| 49) Dibromochloromethane      | 11.075 | 129  | 69785    | 24.408 | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 11.181 | 107  | 54782    | 22.759 | ug/L  | 99       |
| 51) Chlorobenzene             | 11.610 | 112  | 212511   | 23.325 | ug/L  | 98       |
| 52) Ethylbenzene              | 11.687 | 91   | 379729   | 22.192 | ug/L  | 100      |
| 53) m,p-Xylene                | 11.793 | 106  | 140448   | 22.556 | ug/L  | 100      |
| 54) o-Xylene                  | 12.122 | 106  | 137017   | 22.975 | ug/L  | 100      |
| 55) Styrene                   | 12.134 | 104  | 249305   | 23.942 | ug/L  | 95       |
| 57) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 74441    | 25.105 | ug/L  | 98       |
| 59) Bromoform                 | 12.299 | 173  | 43574    | 22.573 | ug/L  | 97       |
| 60) Isopropylbenzene          | 12.422 | 105  | 384010   | 20.968 | ug/L  | 98       |
| 61) 1,2,3-Trichloropropane    | 12.728 | 75   | 52394    | 21.724 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 285160   | 20.516 | ug/L  | 97       |
| 63) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 295442   | 20.983 | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 13.457 | 146  | 165084   | 21.972 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 13.540 | 146  | 169056   | 22.295 | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 13.834 | 146  | 150231   | 22.616 | ug/L  | 93       |
| 68) 1,2-Dibromo-3-chloropr... | 14.451 | 75   | 10812    | 20.610 | ug/L  | 89       |
| 69) 1,3,5-Trichlorobenzene    | 14.592 | 180  | 109345   | 21.374 | ug/L  | 97       |
| 70) 1,2,4-trichlorobenzene    | 15.098 | 180  | 94943    | 22.020 | ug/L  | 98       |
| 71) Naphthalene               | 15.334 | 128  | 179467   | 22.086 | ug/L  | 98       |
| 72) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 84568    | 23.003 | ug/L  | 98       |

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

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