

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120123\  
 Data File : VD077730.D  
 Acq On : 01 Dec 2023 17:59  
 Operator : JC/SY  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD025222

Quant Time: Dec 04 03:12:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM112923SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Dec 04 03:09:24 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 12/04/2023  
 Supervised By : Semsettin Yesilyurt 12/04/2023

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.781  | 114   | 267579   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.587 | 117   | 251964   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 125773   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.281  | 65    | 145526   | 19.943   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 79.760%  |
| 7) Chloroethane-d5            | 2.811  | 69    | 124784   | 21.454   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 85.800%  |
| 11) 1,1-Dichloroethene-d2     | 3.928  | 65    | 38239    | 20.211   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 80.840%  |
| 21) 2-Butanone-d5             | 6.987  | 46    | 39429m   | 42.754   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 85.500%  |
| 24) Chloroform-d              | 7.575  | 84    | 177499   | 24.613   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 98.440%  |
| 26) 1,2-Dichloroethane-d4     | 8.234  | 65    | 84837    | 23.218   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 92.880%  |
| 32) Benzene-d6                | 8.204  | 84    | 361836   | 23.844   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 95.360%  |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67    | 108247   | 23.379   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 93.520%  |
| 41) Toluene-d8                | 10.269 | 98    | 336451   | 24.088   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 96.360%  |
| 43) trans-1,3-Dichloroprop... | 10.528 | 79    | 47148    | 23.027   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 92.120%  |
| 47) 2-Hexanone-d5             | 10.881 | 63    | 33964    | 42.569   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 85.140%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651 | 84    | 78998    | 23.611   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 94.440%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152   | 108851   | 24.192   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 96.760%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.934  | 85    | 103149   | 24.147   | ug/L   | 100      |
| 3) Chloromethane              | 2.152  | 50    | 137863   | 22.465   | ug/L   | 100      |
| 5) Vinyl chloride             | 2.287  | 62    | 179544   | 23.488   | ug/L   | 99       |
| 6) Bromomethane               | 2.705  | 94    | 94646    | 23.373   | ug/L   | 97       |
| 8) Chloroethane               | 2.846  | 64    | 121238   | 25.409   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 3.187  | 101   | 154866   | 23.754   | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.981  | 101   | 94278    | 24.513   | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 3.946  | 96    | 91080m   | 25.023   | ug/L   |          |
| 13) Acetone                   | 4.028  | 43    | 41973    | 35.522   | ug/L   | 98       |
| 14) Carbon disulfide          | 4.281  | 76    | 331556   | 25.704   | ug/L   | 100      |
| 15) Methyl Acetate            | 4.563  | 43    | 35194    | 20.806   | ug/L   | 94       |
| 16) Methylene chloride        | 4.810  | 84    | 106751   | 22.469   | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 5.316  | 96    | 102005   | 26.879   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 5.328  | 73    | 205102   | 24.517   | ug/L # | 89       |
| 19) 1,1-Dichloroethane        | 6.116  | 63    | 184573   | 25.806   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 7.087  | 96    | 111627   | 26.470   | ug/L   | 96       |
| 22) 2-Butanone                | 7.093  | 43    | 53967m   | 40.579   | ug/L   |          |
| 23) Bromochloromethane        | 7.434  | 128   | 47714    | 27.177   | ug/L   | 99       |
| 25) Chloroform                | 7.604  | 83    | 187702   | 26.656   | ug/L   | 89       |

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Quant Time: Dec 04 03:12:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM112923SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Dec 04 03:09:24 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 8.334  | 62   | 116352   | 26.416 | ug/L   | 98       |
| 29) Cyclohexane               | 7.887  | 56   | 155226   | 23.346 | ug/L   | 96       |
| 30) 1,1,1-Trichloroethane     | 7.799  | 97   | 156369   | 25.362 | ug/L   | 100      |
| 31) Carbon tetrachloride      | 7.999  | 117  | 139581   | 25.744 | ug/L   | 98       |
| 33) Benzene                   | 8.251  | 78   | 432606   | 26.379 | ug/L   | 100      |
| 34) Trichloroethene           | 9.034  | 95   | 106912   | 26.262 | ug/L   | 98       |
| 35) Methylcyclohexane         | 9.275  | 83   | 175628   | 24.301 | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 9.310  | 63   | 112458   | 26.300 | ug/L   | 98       |
| 38) Bromodichloromethane      | 9.587  | 83   | 135661   | 26.090 | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene   | 10.022 | 75   | 168086   | 25.172 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 10.163 | 43   | 100876   | 42.753 | ug/L   | 95       |
| 42) Toluene                   | 10.334 | 91   | 468704   | 26.907 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 10.557 | 75   | 139898   | 25.084 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 10.734 | 97   | 74879    | 26.075 | ug/L   | 95       |
| 46) Tetrachloroethene         | 10.810 | 164  | 81584    | 24.853 | ug/L   | 91       |
| 48) 2-Hexanone                | 10.922 | 43   | 79155    | 39.468 | ug/L   | 96       |
| 49) Dibromochloromethane      | 11.075 | 129  | 85539    | 25.051 | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 11.181 | 107  | 70107    | 25.314 | ug/L   | 97       |
| 51) Chlorobenzene             | 11.610 | 112  | 280918   | 26.008 | ug/L   | 98       |
| 52) Ethylbenzene              | 11.687 | 91   | 509136   | 26.366 | ug/L   | 98       |
| 53) m,p-Xylene                | 11.792 | 106  | 191958   | 26.309 | ug/L   | 98       |
| 54) o-Xylene                  | 12.122 | 106  | 184439   | 26.413 | ug/L   | 98       |
| 55) Styrene                   | 12.140 | 104  | 330228   | 27.026 | ug/L   | 94       |
| 57) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 82209    | 24.160 | ug/L   | 95       |
| 59) Bromoform                 | 12.304 | 173  | 52486    | 25.221 | ug/L # | 98       |
| 60) Isopropylbenzene          | 12.422 | 105  | 500107   | 26.641 | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 12.728 | 75   | 55362    | 23.930 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 373409   | 26.484 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 380691   | 26.629 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 13.463 | 146  | 213412   | 26.287 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 13.539 | 146  | 219023   | 25.998 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 13.834 | 146  | 189021   | 25.874 | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 14.451 | 75   | 11749    | 21.538 | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 14.598 | 180  | 139143   | 25.169 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 15.098 | 180  | 114851   | 24.472 | ug/L   | 98       |
| 71) Naphthalene               | 15.333 | 128  | 202771   | 23.633 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 100100   | 24.330 | ug/L   | 98       |

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

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