

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111323\  
 Data File : VD077551.D  
 Acq On : 13 Nov 2023 16:30  
 Operator : JC/SY  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ml/MSVOA\_D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD025206

Quant Time: Nov 16 00:42:57 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM110923SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Nov 10 02:07:44 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/17/2023  
 Supervised By :Semsettin Yesilyurt 11/17/2023

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.781  | 114   | 341328   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.581 | 117   | 313908   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 150730   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.281  | 65    | 176329   | 20.308   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 81.240%  |
| 7) Chloroethane-d5            | 2.810  | 69    | 148894   | 21.828   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 87.320%  |
| 11) 1,1-Dichloroethene-d2     | 3.934  | 65    | 54296m   | 20.223   | ug/L   | 0.01     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 80.880%  |
| 21) 2-Butanone-d5             | 6.987  | 46    | 84686    | 56.333   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 112.660% |
| 24) Chloroform-d              | 7.569  | 84    | 232097   | 23.539   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 94.160%  |
| 26) 1,2-Dichloroethane-d4     | 8.234  | 65    | 132518   | 25.267   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 101.080% |
| 32) Benzene-d6                | 8.204  | 84    | 468583   | 22.999   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 92.000%  |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67    | 158479   | 23.881   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 95.520%  |
| 41) Toluene-d8                | 10.269 | 98    | 420798   | 22.857   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 91.440%  |
| 43) trans-1,3-Dichloroprop... | 10.528 | 79    | 69364    | 24.242   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 96.960%  |
| 47) 2-Hexanone-d5             | 10.875 | 63    | 66952    | 56.396   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 112.800% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651 | 84    | 116119   | 26.409   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 105.640% |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152   | 130992   | 24.429   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 97.720%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.934  | 85    | 119897   | 21.811   | ug/L   | 98       |
| 3) Chloromethane              | 2.152  | 50    | 182376   | 23.061   | ug/L   | 99       |
| 5) Vinyl chloride             | 2.293  | 62    | 198838   | 22.276   | ug/L   | 99       |
| 6) Bromomethane               | 2.704  | 94    | 103560   | 21.792   | ug/L   | 96       |
| 8) Chloroethane               | 2.846  | 64    | 126637   | 22.820   | ug/L   | 90       |
| 9) Trichlorofluoromethane     | 3.187  | 101   | 187791   | 23.117   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.981  | 101   | 113402   | 22.685   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 3.946  | 96    | 106012   | 21.840   | ug/L   | 90       |
| 13) Acetone                   | 4.022  | 43    | 95534    | 60.457   | ug/L   | 96       |
| 14) Carbon disulfide          | 4.281  | 76    | 378679   | 21.666   | ug/L   | 99       |
| 15) Methyl Acetate            | 4.569  | 43    | 66763    | 25.682   | ug/L # | 79       |
| 16) Methylene chloride        | 4.810  | 84    | 124912   | 21.675   | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 5.316  | 96    | 113410   | 22.211   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 5.316  | 73    | 297739   | 24.845   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 6.122  | 63    | 240215   | 23.448   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 7.081  | 96    | 131414   | 23.690   | ug/L   | 99       |
| 22) 2-Butanone                | 7.081  | 43    | 99107    | 52.126   | ug/L   | 97       |
| 23) Bromochloromethane        | 7.428  | 128   | 51509    | 23.109   | ug/L   | 93       |
| 25) Chloroform                | 7.598  | 83    | 224411   | 23.846   | ug/L   | 96       |

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 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD025206

Quant Time: Nov 16 00:42:57 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM110923SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Nov 10 02:07:44 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/17/2023  
 Supervised By :Semsettin Yesilyurt 11/17/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 8.328  | 62   | 152629   | 24.465 | ug/L  | 96       |
| 29) Cyclohexane               | 7.881  | 56   | 222177   | 21.799 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 7.798  | 97   | 187824   | 22.856 | ug/L  | 100      |
| 31) Carbon tetrachloride      | 7.992  | 117  | 160719   | 22.757 | ug/L  | 99       |
| 33) Benzene                   | 8.251  | 78   | 500220   | 22.979 | ug/L  | 100      |
| 34) Trichloroethene           | 9.028  | 95   | 122390   | 22.690 | ug/L  | 94       |
| 35) Methylcyclohexane         | 9.275  | 83   | 212950   | 21.877 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 9.304  | 63   | 142974   | 23.626 | ug/L  | 98       |
| 38) Bromodichloromethane      | 9.586  | 83   | 163050   | 23.489 | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 10.016 | 75   | 220733   | 23.737 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 10.163 | 43   | 189220   | 51.310 | ug/L  | 99       |
| 42) Toluene                   | 10.334 | 91   | 527701   | 23.089 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 10.557 | 75   | 189197   | 24.623 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 10.733 | 97   | 92274    | 24.945 | ug/L  | 99       |
| 46) Tetrachloroethene         | 10.810 | 164  | 86160    | 21.709 | ug/L  | 93       |
| 48) 2-Hexanone                | 10.922 | 43   | 157526   | 53.890 | ug/L  | 99       |
| 49) Dibromochloromethane      | 11.075 | 129  | 100943   | 24.023 | ug/L  | 95       |
| 50) 1,2-Dibromoethane         | 11.181 | 107  | 84382    | 23.854 | ug/L  | 98       |
| 51) Chlorobenzene             | 11.610 | 112  | 310758   | 23.209 | ug/L  | 98       |
| 52) Ethylbenzene              | 11.686 | 91   | 577874   | 22.979 | ug/L  | 97       |
| 53) m,p-Xylene                | 11.792 | 106  | 210626   | 23.017 | ug/L  | 96       |
| 54) o-Xylene                  | 12.122 | 106  | 203882   | 23.262 | ug/L  | 92       |
| 55) Styrene                   | 12.139 | 104  | 357673   | 23.373 | ug/L  | 95       |
| 57) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 111964   | 25.693 | ug/L  | 97       |
| 59) Bromoform                 | 12.304 | 173  | 61975    | 24.116 | ug/L  | 99       |
| 60) Isopropylbenzene          | 12.422 | 105  | 550843   | 22.593 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 12.727 | 75   | 78128    | 24.334 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 417605   | 22.568 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 428386   | 22.855 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 13.463 | 146  | 228692   | 22.864 | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 13.539 | 146  | 231285   | 22.912 | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 13.833 | 146  | 205230   | 23.208 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 14.451 | 75   | 17883    | 25.607 | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 14.598 | 180  | 151825   | 22.293 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 15.098 | 180  | 130069   | 22.660 | ug/L  | 100      |
| 71) Naphthalene               | 15.333 | 128  | 258273   | 23.875 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.521 | 180  | 113227   | 23.135 | ug/L  | 100      |

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

