

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW052524\  
 Data File : VW035829.D  
 Acq On : 26 May 2024 03:58  
 Operator : SY/MD  
 Sample : P2586-07MSD  
 Misc : 5.66g/10.0mL/MSVOA\_V/SOIL/A  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A4D18MSD

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/28/2024  
 Supervised By :Mahesh Dadoda 05/28/2024

Quant Time: May 27 05:36:30 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050624SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon May 27 05:15:54 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 5.532  | 114   | 223360   | 25.000   | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 8.786  | 117   | 128164   | 25.000   | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.188 | 152   | 29399    | 25.000   | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.272  | 65    | 161651   | 46.824   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 187.280%# |
| 7) Chloroethane-d5            | 1.529  | 69    | 128326   | 46.076   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 184.320%# |
| 11) 1,1-Dichloroethene-d2     | 2.053  | 65    | 59327    | 38.817   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 155.280%# |
| 21) 2-Butanone-d5             | 3.870  | 46    | 17232m   | 17.588   | ug/L   | 0.03      |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 35.180%   |
| 24) Chloroform-d              | 4.246  | 84    | 233182   | 35.116   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 140.480%  |
| 26) 1,2-Dichloroethane-d4     | 4.940  | 65    | 114690   | 34.937   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 139.760%# |
| 32) Benzene-d6                | 4.956  | 84    | 419975   | 59.863   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 239.440%# |
| 36) 1,2-Dichloropropane-d6    | 5.985  | 67    | 131067   | 60.537   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 242.160%# |
| 41) Toluene-d8                | 7.243  | 98    | 263485   | 42.199   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 168.800%# |
| 43) trans-1,3-Dichloroprop... | 7.561  | 79    | 13703    | 14.799   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 59.200%   |
| 47) 2-Hexanone-d5             | 8.059  | 63    | 2720     | 6.987    | ug/L   | 0.03      |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 13.980%#  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.152 | 84    | 58684    | 28.128   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 112.520%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.561 | 152   | 27567    | 27.019   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 108.080%  |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 2) Dichlorodifluoromethane    | 1.101  | 85    | 140324   | 30.901   | ug/L   | 99        |
| 3) Chloromethane              | 1.211  | 50    | 77714    | 17.045   | ug/L   | 99        |
| 5) Vinyl chloride             | 1.278  | 62    | 146420   | 31.085   | ug/L   | 99        |
| 6) Bromomethane               | 1.484  | 94    | 23774    | 7.971    | ug/L   | 100       |
| 8) Chloroethane               | 1.545  | 64    | 96318    | 33.172   | ug/L   | 98        |
| 9) Trichlorofluoromethane     | 1.709  | 101   | 199444   | 32.440   | ug/L   | 99        |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.063  | 101   | 120159   | 30.976   | ug/L   | 99        |
| 12) 1,1-Dichloroethene        | 2.063  | 96    | 108028   | 30.832   | ug/L # | 85        |
| 13) Acetone                   | 2.153  | 43    | 35069    | 24.452   | ug/L # | 37        |
| 14) Carbon disulfide          | 2.236  | 76    | 189318   | 17.059   | ug/L   | 100       |
| 15) Methyl Acetate            | 2.397  | 43    | 10698m   | 4.923    | ug/L   |           |
| 16) Methylene chloride        | 2.442  | 84    | 137037   | 26.606   | ug/L   | 96        |
| 17) trans-1,2-Dichloroethene  | 2.690  | 96    | 100704   | 25.890   | ug/L   | 99        |
| 18) Methyl tert-butyl Ether   | 2.699  | 73    | 312219   | 33.276   | ug/L   | 98        |
| 19) 1,1-Dichloroethane        | 3.108  | 63    | 247479   | 33.937   | ug/L   | 99        |
| 20) cis-1,2-Dichloroethene    | 3.812  | 96    | 108366   | 25.699   | ug/L   | 99        |
| 22) 2-Butanone                | 3.921  | 43    | 39841m   | 29.914   | ug/L   |           |
| 23) Bromochloromethane        | 4.146  | 128   | 59031    | 28.944   | ug/L   | 98        |
| 25) Chloroform                | 4.272  | 83    | 243680   | 32.361   | ug/L   | 99        |

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 Sample : P2586-07MSD  
 Misc : 5.66g/10.0mL/MSVOA\_V/SOIL/A  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A4D18MSD

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/28/2024  
 Supervised By :Mahesh Dadoda 05/28/2024

Quant Time: May 27 05:36:30 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050624SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon May 27 05:15:54 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.040  | 62   | 140235   | 29.907 | ug/L   | 98       |
| 29) Cyclohexane               | 4.577  | 56   | 94009    | 30.673 | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane     | 4.506  | 97   | 195202   | 54.930 | ug/L   | 99       |
| 31) Carbon tetrachloride      | 4.731  | 117  | 153141   | 49.115 | ug/L   | 97       |
| 33) Benzene                   | 5.008  | 78   | 420724   | 49.600 | ug/L   | 100      |
| 34) Trichloroethene           | 5.831  | 95   | 95403    | 39.762 | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.046  | 83   | 79012    | 21.690 | ug/L   | 93       |
| 37) 1,2-Dichloropropane       | 6.088  | 63   | 122182   | 55.210 | ug/L   | 100      |
| 38) Bromodichloromethane      | 6.429  | 83   | 141780   | 47.292 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 6.963  | 75   | 35451    | 10.242 | ug/L   | 93       |
| 40) 4-Methyl-2-pentanone      | 7.165  | 43   | 48110    | 36.299 | ug/L   | 93       |
| 42) Toluene                   | 7.313  | 91   | 314559   | 35.042 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 7.590  | 75   | 35737    | 11.802 | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 86155    | 45.818 | ug/L   | 99       |
| 46) Tetrachloroethene         | 7.905  | 164  | 54500    | 27.959 | ug/L   | 97       |
| 48) 2-Hexanone                | 8.098  | 43   | 12166    | 12.242 | ug/L # | 72       |
| 49) Dibromochloromethane      | 8.175  | 129  | 76388    | 36.002 | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.284  | 107  | 46613    | 25.163 | ug/L   | 98       |
| 51) Chlorobenzene             | 8.815  | 112  | 145857   | 23.417 | ug/L   | 98       |
| 52) Ethylbenzene              | 8.947  | 91   | 224049   | 22.606 | ug/L   | 99       |
| 53) m,p-Xylene                | 9.072  | 106  | 79107    | 21.038 | ug/L   | 98       |
| 54) o-Xylene                  | 9.477  | 106  | 75899    | 21.297 | ug/L   | 98       |
| 55) Styrene                   | 9.496  | 104  | 71068    | 11.433 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 61425    | 26.817 | ug/L   | 96       |
| 59) Bromoform                 | 9.664  | 173  | 34400    | 59.541 | ug/L # | 96       |
| 60) Isopropylbenzene          | 9.866  | 105  | 184136   | 47.020 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 59626    | 86.551 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 99361    | 32.343 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 85963    | 27.229 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.120 | 146  | 52483    | 25.537 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 51570    | 24.239 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.580 | 146  | 48243    | 24.937 | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.365 | 75   | 7785     | 48.725 | ug/L   | 89       |
| 69) 1,3,5-Trichlorobenzene    | 12.583 | 180  | 20196    | 12.575 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.201 | 180  | 10987    | 8.193  | ug/L   | 94       |
| 71) Naphthalene               | 13.445 | 128  | 22590    | 9.595  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.683 | 180  | 8570     | 7.104  | ug/L   | 100      |

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

