

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091124\  
 Data File : VD079818.D  
 Acq On : 11 Sep 2024 10:31  
 Operator : RP/MD  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD025902

Quant Time: Sep 12 01:21:54 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM091024SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Wed Sep 11 06:11:49 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/12/2024  
 Supervised By :Semsettin Yesilyurt 09/12/2024

| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) 1,4-Difluorobenzene        | 8.775     | 114   | 186505   | 25.000   | ug/L       | 0.00     |
| 28) Chlorobenzene-d5          | 11.581    | 117   | 178399   | 25.000   | ug/L       | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.516    | 152   | 87810    | 25.000   | ug/L       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 4) Vinyl Chloride-d3          | 2.276     | 65    | 203923   | 25.145   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 150 | Recovery | = 100.560% |          |
| 7) Chloroethane-d5            | 2.799     | 69    | 161657   | 25.177   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 150 | Recovery | = 100.720% |          |
| 11) 1,1-Dichloroethene-d2     | 3.911     | 65    | 38014    | 25.817   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 45 - 110 | Recovery | = 103.280% |          |
| 21) 2-Butanone-d5             | 6.987     | 46    | 42429    | 56.309   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 20 - 135 | Recovery | = 112.620% |          |
| 24) Chloroform-d              | 7.569     | 84    | 158416   | 25.840   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 40 - 150 | Recovery | = 103.360% |          |
| 26) 1,2-Dichloroethane-d4     | 8.228     | 65    | 87756    | 27.374   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 70 - 130 | Recovery | = 109.480% |          |
| 32) Benzene-d6                | 8.199     | 84    | 350965   | 27.866   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 20 - 135 | Recovery | = 111.480% |          |
| 36) 1,2-Dichloropropane-d6    | 9.210     | 67    | 108131   | 28.032   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 70 - 120 | Recovery | = 112.120% |          |
| 41) Toluene-d8                | 10.269    | 98    | 323494   | 29.188   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 130 | Recovery | = 116.760% |          |
| 43) trans-1,3-Dichloroprop... | 10.522    | 79    | 47005    | 28.343   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 135 | Recovery | = 113.360% |          |
| 47) 2-Hexanone-d5             | 10.875    | 63    | 38781    | 61.674   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 20 - 135 | Recovery | = 123.340% |          |
| 56) 1,1,2,2-Tetrachloroeth... | 12.646    | 84    | 82329    | 29.045   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 45 - 120 | Recovery | = 116.160% |          |
| 66) 1,2-Dichlorobenzene-d4    | 13.810    | 152   | 90964    | 27.469   | ug/L       | 0.00     |
| Spiked Amount                 | 25.000    | Range | 75 - 120 | Recovery | = 109.880% |          |
| Target Compounds              |           |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.934     | 85    | 80415    | 22.612   | ug/L       | 99       |
| 3) Chloromethane              | 2.146     | 50    | 144906   | 23.244   | ug/L       | 99       |
| 5) Vinyl chloride             | 2.281     | 62    | 176121   | 23.055   | ug/L       | 99       |
| 6) Bromomethane               | 2.693     | 94    | 87966    | 22.869   | ug/L       | 96       |
| 8) Chloroethane               | 2.834     | 64    | 116740   | 23.131   | ug/L       | 95       |
| 9) Trichlorofluoromethane     | 3.175     | 101   | 123029   | 22.399   | ug/L       | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.964     | 101   | 72480    | 23.840   | ug/L       | 98       |
| 12) 1,1-Dichloroethene        | 3.940     | 96    | 66464    | 23.471   | ug/L       | 95       |
| 13) Acetone                   | 4.022     | 43    | 58489    | 63.669   | ug/L       | 96       |
| 14) Carbon disulfide          | 4.270     | 76    | 207098   | 22.483   | ug/L       | 100      |
| 15) Methyl Acetate            | 4.564     | 43    | 35646    | 24.360   | ug/L #     | 77       |
| 16) Methylene chloride        | 4.799     | 84    | 84456    | 22.917   | ug/L       | 95       |
| 17) trans-1,2-Dichloroethene  | 5.317     | 96    | 72345m   | 23.960   | ug/L       |          |
| 18) Methyl tert-butyl Ether   | 5.317     | 73    | 169390   | 24.938   | ug/L       | 99       |
| 19) 1,1-Dichloroethane        | 6.111     | 63    | 141575   | 23.606   | ug/L       | 99       |
| 20) cis-1,2-Dichloroethene    | 7.081     | 96    | 81470    | 24.506   | ug/L       | 94       |
| 22) 2-Butanone                | 7.075     | 43    | 59772    | 55.467   | ug/L       | 96       |
| 23) Bromochloromethane        | 7.428     | 128   | 33486    | 23.732   | ug/L       | 93       |
| 25) Chloroform                | 7.593     | 83    | 152841   | 24.482   | ug/L       | 98       |

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 ALS Vial : 2 Sample Multiplier: 1

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Manual Integrations  
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 Supervised By :Semsettin Yesilyurt 09/12/2024

Quant Time: Sep 12 01:21:54 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM091024SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Wed Sep 11 06:11:49 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 8.322  | 62   | 91177    | 23.895 | ug/L   | 99       |
| 29) Cyclohexane               | 7.875  | 56   | 107698   | 24.406 | ug/L   | 94       |
| 30) 1,1,1-Trichloroethane     | 7.793  | 97   | 119641   | 24.603 | ug/L   | 99       |
| 31) Carbon tetrachloride      | 7.993  | 117  | 105165   | 24.409 | ug/L   | 98       |
| 33) Benzene                   | 8.252  | 78   | 336256   | 25.313 | ug/L   | 100      |
| 34) Trichloroethene           | 9.028  | 95   | 75085    | 24.462 | ug/L   | 94       |
| 35) Methylcyclohexane         | 9.275  | 83   | 121905   | 24.610 | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 9.305  | 63   | 92169    | 25.442 | ug/L # | 100      |
| 38) Bromodichloromethane      | 9.581  | 83   | 105549   | 25.004 | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 10.016 | 75   | 136132   | 26.760 | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 10.157 | 43   | 105285   | 55.519 | ug/L   | 98       |
| 42) Toluene                   | 10.334 | 91   | 357376   | 25.540 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 10.552 | 75   | 119503   | 26.655 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 10.734 | 97   | 61962    | 25.034 | ug/L   | 90       |
| 46) Tetrachloroethene         | 10.810 | 164  | 52117    | 25.010 | ug/L   | 94       |
| 48) 2-Hexanone                | 10.922 | 43   | 92150    | 59.739 | ug/L   | 98       |
| 49) Dibromochloromethane      | 11.075 | 129  | 70245    | 26.001 | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 11.181 | 107  | 53916    | 25.221 | ug/L   | 96       |
| 51) Chlorobenzene             | 11.604 | 112  | 211991   | 25.245 | ug/L   | 98       |
| 52) Ethylbenzene              | 11.681 | 91   | 378072   | 25.720 | ug/L   | 96       |
| 53) m,p-Xylene                | 11.793 | 106  | 144795   | 26.007 | ug/L   | 98       |
| 54) o-Xylene                  | 12.116 | 106  | 138985   | 25.460 | ug/L   | 93       |
| 55) Styrene                   | 12.134 | 104  | 255226   | 26.602 | ug/L   | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 76118    | 26.237 | ug/L   | 92       |
| 59) Bromoform                 | 12.299 | 173  | 39429    | 26.012 | ug/L # | 99       |
| 60) Isopropylbenzene          | 12.416 | 105  | 374829   | 24.724 | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 12.722 | 75   | 54220    | 25.120 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 291163   | 26.261 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 291908   | 25.106 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 13.457 | 146  | 155621   | 24.839 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 13.534 | 146  | 161482   | 24.573 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 13.828 | 146  | 141417   | 24.974 | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 14.440 | 75   | 11011    | 24.933 | ug/L   | 90       |
| 69) 1,3,5-Trichlorobenzene    | 14.593 | 180  | 92897    | 24.454 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 15.098 | 180  | 75804    | 23.700 | ug/L   | 98       |
| 71) Naphthalene               | 15.328 | 128  | 175478   | 24.564 | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 15.516 | 180  | 71329    | 24.932 | ug/L   | 97       |

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

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