

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU083123\  
 Data File : VU055033.D  
 Acq On : 31 Aug 2023 20:07  
 Operator : MD/SY  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005102

Quant Time: Sep 01 05:04:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR082823WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Sep 01 04:57:47 2023  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |                | Response | Conc        | Units | Dev(Min) |
|-------------------------------|-----------|----------------|----------|-------------|-------|----------|
| -----                         |           |                |          |             |       |          |
| Internal Standards            |           |                |          |             |       |          |
| 1) 1,4-Difluorobenzene        | 6.248     | 114            | 194532   | 5.000       | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.415     | 117            | 196401   | 5.000       | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.810    | 152            | 108334   | 5.000       | ug/L  | 0.00     |
| System Monitoring Compounds   |           |                |          |             |       |          |
| 4) Vinyl Chloride-d3          | 1.595     | 65             | 41165    | 6.705       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 40 - 130 | Recovery | = 134.000%# |       |          |
| 7) Chloroethane-d5            | 1.907     | 69             | 50599    | 6.379       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 65 - 130 | Recovery | = 127.600%  |       |          |
| 11) 1,1-Dichloroethene-d2     | 2.560     | 65             | 23504    | 6.773       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 60 - 125 | Recovery | = 135.400%# |       |          |
| 20) 2-Butanone-d5             | 4.627     | 46             | 130436   | 39.357      | ug/L  | 0.00     |
| Spiked Amount                 | 50.000    | Range 40 - 130 | Recovery | = 78.720%   |       |          |
| 24) Chloroform-d              | 5.058     | 84             | 106083   | 4.658       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 70 - 125 | Recovery | = 93.200%   |       |          |
| 26) 1,2-Dichloroethane-d4     | 5.698     | 65             | 55064    | 4.543       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 70 - 130 | Recovery | = 90.800%   |       |          |
| 32) Benzene-d6                | 5.724     | 84             | 213797   | 4.843       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 70 - 125 | Recovery | = 96.800%   |       |          |
| 36) 1,2-Dichloropropane-d6    | 6.688     | 67             | 66781    | 4.301       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 60 - 140 | Recovery | = 86.000%   |       |          |
| 41) Toluene-d8                | 7.894     | 98             | 201370   | 4.763       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 70 - 130 | Recovery | = 95.200%   |       |          |
| 43) trans-1,3-Dichloroprop... | 8.180     | 79             | 19256    | 3.768       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 55 - 130 | Recovery | = 75.400%   |       |          |
| 46) 2-Hexanone-d5             | 8.634     | 63             | 85340    | 35.187      | ug/L  | 0.00     |
| Spiked Amount                 | 50.000    | Range 45 - 130 | Recovery | = 70.380%   |       |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753    | 84             | 52238    | 3.923       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 65 - 120 | Recovery | = 78.400%   |       |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.190    | 152            | 70665    | 4.085       | ug/L  | 0.00     |
| Spiked Amount                 | 5.000     | Range 80 - 120 | Recovery | = 81.800%   |       |          |
| Target Compounds              |           |                |          |             |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.383     | 85             | 60671    | 5.033       | ug/L  | 99       |
| 3) Chloromethane              | 1.515     | 50             | 60451    | 4.806       | ug/L  | 99       |
| 5) Vinyl chloride             | 1.599     | 62             | 63046    | 4.829       | ug/L  | 98       |
| 6) Bromomethane               | 1.853     | 94             | 36318    | 4.458       | ug/L  | 98       |
| 8) Chloroethane               | 1.927     | 64             | 44888    | 5.228       | ug/L  | 94       |
| 9) Trichlorofluoromethane     | 2.132     | 101            | 89653    | 4.825       | ug/L  | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576     | 101            | 51037    | 5.056       | ug/L  | 93       |
| 12) 1,1-Dichloroethene        | 2.576     | 96             | 45682    | 5.200       | ug/L  | 93       |
| 13) Acetone                   | 2.634     | 43             | 91886    | 51.292      | ug/L  | 99       |
| 14) Carbon disulfide          | 2.788     | 76             | 109883   | 4.517       | ug/L  | 98       |
| 15) Methyl Acetate            | 2.955     | 43             | 21804    | 5.946       | ug/L  | 98       |
| 16) Methylene chloride        | 3.039     | 84             | 73476    | 5.445       | ug/L  | 94       |
| 17) Methyl tert-butyl Ether   | 3.361     | 73             | 131024   | 5.125       | ug/L  | 99       |
| 18) trans-1,2-Dichloroethene  | 3.351     | 96             | 46932    | 4.889       | ug/L  | 91       |
| 19) 1,1-Dichloroethane        | 3.862     | 63             | 101602   | 5.046       | ug/L  | 100      |
| 21) 2-Butanone                | 4.708     | 43             | 147847   | 53.859      | ug/L  | 97       |
| 22) cis-1,2-Dichloroethene    | 4.663     | 96             | 56094    | 4.902       | ug/L  | 94       |
| 23) Bromochloromethane        | 4.971     | 128            | 25254    | 5.100       | ug/L  | 94       |
| 25) Chloroform                | 5.087     | 83             | 108937   | 4.932       | ug/L  | 96       |

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 Sample : VSTDCCC005EC  
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 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005102

Quant Time: Sep 01 05:04:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR082823WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Sep 01 04:57:47 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.795  | 62   | 69126    | 5.122  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane     | 5.312  | 97   | 86219    | 4.416  | ug/L  | 98       |
| 30) Cyclohexane               | 5.383  | 56   | 74469    | 4.303  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.521  | 117  | 72309    | 4.353  | ug/L  | 98       |
| 33) Benzene                   | 5.769  | 78   | 217612   | 4.697  | ug/L  | 100      |
| 34) Trichloroethene           | 6.541  | 95   | 59980    | 4.671  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.759  | 83   | 76623    | 4.033  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.788  | 63   | 58278    | 4.512  | ug/L  | 98       |
| 38) Bromodichloromethane      | 7.103  | 83   | 70076    | 4.374  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene   | 7.605  | 75   | 80972    | 4.350  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 7.788  | 43   | 372509   | 51.733 | ug/L  | 100      |
| 42) Toluene                   | 7.968  | 91   | 231302   | 4.499  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.209  | 75   | 65299    | 4.248  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.396  | 97   | 43600    | 5.002  | ug/L  | 97       |
| 47) Tetrachloroethene         | 8.550  | 164  | 39861    | 4.320  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.682  | 43   | 278126   | 52.156 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.807  | 129  | 44715    | 4.428  | ug/L  | 88       |
| 50) 1,2-Dibromoethane         | 8.923  | 107  | 39477    | 4.705  | ug/L  | 96       |
| 51) Chlorobenzene             | 9.444  | 112  | 149626   | 4.472  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.569  | 91   | 253142   | 4.366  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.692  | 106  | 94058    | 4.328  | ug/L  | 99       |
| 54) o-Xylene                  | 10.100 | 106  | 92284    | 4.430  | ug/L  | 97       |
| 55) Styrene                   | 10.113 | 104  | 154060   | 4.486  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 54939    | 5.095  | ug/L  | 99       |
| 59) Bromoform                 | 10.290 | 173  | 23336    | 4.336  | ug/L  | 95       |
| 60) Isopropylbenzene          | 10.483 | 105  | 251736   | 4.329  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.820 | 75   | 39922    | 4.949  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.087 | 105  | 209305   | 4.193  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.466 | 105  | 195656   | 4.225  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 119315   | 4.409  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.836 | 146  | 117213   | 4.330  | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 12.212 | 146  | 112908   | 4.578  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.994 | 75   | 7342     | 4.698  | ug/L  | 88       |
| 69) 1,3,5-Trichlorobenzene    | 13.219 | 180  | 82475    | 4.572  | ug/L  | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.839 | 180  | 63436    | 4.490  | ug/L  | 100      |
| 71) Naphthalene               | 14.084 | 128  | 94098    | 4.427  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.328 | 180  | 55659    | 4.754  | ug/L  | 99       |

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

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