

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121624\  
 Data File : VW031302.D  
 Acq On : 17 Dec 2024 04:37  
 Operator : SY/MD  
 Sample : VSTDCCC025EC  
 Misc : 5.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025591

Quant Time: Dec 17 12:28:48 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM121324SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Tue Dec 17 02:36:53 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) 1,4-Difluorobenzene     | 8.837  | 114  | 632846   | 25.000 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.629 | 117  | 552299   | 25.000 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.550 | 152  | 270635   | 25.000 | ug/L  | 0.00     |

|                               |        |       |          |          |             |      |
|-------------------------------|--------|-------|----------|----------|-------------|------|
| System Monitoring Compounds   |        |       |          |          |             |      |
| 4) Vinyl Chloride-d3          | 2.369  | 65    | 243685   | 25.592   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | = 102.360%  |      |
| 7) Chloroethane-d5            | 2.893  | 69    | 193384   | 27.455   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | = 109.840%  |      |
| 11) 1,1-Dichloroethene-d2     | 4.015  | 65    | 114545   | 25.360   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | = 101.440%  |      |
| 21) 2-Butanone-d5             | 7.093  | 46    | 128069   | 71.419   | ug/L        | 0.00 |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | = 142.840%# |      |
| 24) Chloroform-d              | 7.648  | 84    | 495659   | 28.586   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | = 114.360%  |      |
| 26) 1,2-Dichloroethane-d4     | 8.301  | 65    | 273275   | 31.382   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | = 125.520%  |      |
| 32) Benzene-d6                | 8.276  | 84    | 972002   | 27.458   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | = 109.840%  |      |
| 36) 1,2-Dichloropropane-d6    | 9.270  | 67    | 292102   | 28.313   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | = 113.240%  |      |
| 41) Toluene-d8                | 10.318 | 98    | 915451   | 27.798   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | = 111.200%  |      |
| 43) trans-1,3-Dichloroprop... | 10.575 | 79    | 130286   | 27.388   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | = 109.560%  |      |
| 47) 2-Hexanone-d5             | 10.922 | 63    | 101538   | 73.184   | ug/L        | 0.00 |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | = 146.360%# |      |
| 56) 1,1,2,2-Tetrachloroeth... | 12.690 | 84    | 221044   | 34.124   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | = 136.480%# |      |
| 66) 1,2-Dichlorobenzene-d4    | 13.848 | 152   | 295279   | 29.390   | ug/L        | 0.00 |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | = 117.560%  |      |

|                               |       |     |        |        |        |     |
|-------------------------------|-------|-----|--------|--------|--------|-----|
| Target Compounds              |       |     |        |        | Qvalue |     |
| 2) Dichlorodifluoromethane    | 2.009 | 85  | 139347 | 24.364 | ug/L   | 99  |
| 3) Chloromethane              | 2.228 | 50  | 207987 | 32.370 | ug/L   | 96  |
| 5) Vinyl chloride             | 2.375 | 62  | 228486 | 25.660 | ug/L   | 97  |
| 6) Bromomethane               | 2.789 | 94  | 154499 | 28.222 | ug/L   | 99  |
| 8) Chloroethane               | 2.930 | 64  | 145815 | 27.536 | ug/L   | 98  |
| 9) Trichlorofluoromethane     | 3.259 | 101 | 269417 | 28.401 | ug/L   | 99  |
| 10) 1,1,2-Trichloro-1,2,2-... | 4.070 | 101 | 200944 | 26.233 | ug/L # | 71  |
| 12) 1,1-Dichloroethene        | 4.039 | 96  | 204421 | 26.349 | ug/L   | 95  |
| 13) Acetone                   | 4.173 | 43  | 84332  | 33.769 | ug/L # | 100 |
| 14) Carbon disulfide          | 4.387 | 76  | 624498 | 24.682 | ug/L   | 99  |
| 15) Methyl Acetate            | 4.685 | 43  | 97204  | 34.270 | ug/L   | 98  |
| 16) Methylene chloride        | 4.917 | 84  | 219432 | 27.558 | ug/L   | 99  |
| 17) trans-1,2-Dichloroethene  | 5.423 | 96  | 228454 | 27.318 | ug/L   | 98  |
| 18) Methyl tert-butyl Ether   | 5.429 | 73  | 442501 | 31.651 | ug/L   | 99  |
| 19) 1,1-Dichloroethane        | 6.209 | 63  | 441038 | 28.223 | ug/L   | 99  |
| 20) cis-1,2-Dichloroethene    | 7.167 | 96  | 259209 | 28.649 | ug/L   | 98  |
| 22) 2-Butanone                | 7.191 | 43  | 136122 | 44.985 | ug/L   | 97  |
| 23) Bromochloromethane        | 7.514 | 128 | 114029 | 31.600 | ug/L   | 91  |
| 25) Chloroform                | 7.673 | 83  | 460814 | 29.878 | ug/L   | 98  |

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 ALS Vial : 50 Sample Multiplier: 1

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 MSVOA\_W  
 ClientSampleId :  
 VSTD025591

Quant Time: Dec 17 12:28:48 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM121324SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Tue Dec 17 02:36:53 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 8.398  | 62   | 308106   | 31.776 | ug/L  | 98       |
| 29) Cyclohexane               | 7.953  | 56   | 362245   | 24.185 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 7.874  | 97   | 363768   | 25.482 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 8.069  | 117  | 327384   | 25.742 | ug/L  | 99       |
| 33) Benzene                   | 8.319  | 78   | 955790   | 28.004 | ug/L  | 100      |
| 34) Trichloroethene           | 9.087  | 95   | 263890   | 27.386 | ug/L  | 90       |
| 35) Methylcyclohexane         | 9.331  | 83   | 416124   | 24.798 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 9.367  | 63   | 247557   | 29.075 | ug/L  | 100      |
| 38) Bromodichloromethane      | 9.642  | 83   | 317869   | 28.717 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 10.069 | 75   | 397118   | 27.601 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 10.209 | 43   | 302474   | 66.959 | ug/L  | 99       |
| 42) Toluene                   | 10.386 | 91   | 1032811  | 27.794 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 10.605 | 75   | 332637   | 28.314 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 10.782 | 97   | 185576   | 32.768 | ug/L  | 94       |
| 46) Tetrachloroethene         | 10.861 | 164  | 191735   | 27.165 | ug/L  | 86       |
| 48) 2-Hexanone                | 10.965 | 43   | 208466   | 54.261 | ug/L  | 100      |
| 49) Dibromochloromethane      | 11.123 | 129  | 208468   | 31.053 | ug/L  | 93       |
| 50) 1,2-Dibromoethane         | 11.233 | 107  | 173075   | 32.260 | ug/L  | 89       |
| 51) Chlorobenzene             | 11.654 | 112  | 660148   | 28.334 | ug/L  | 96       |
| 52) Ethylbenzene              | 11.727 | 91   | 1172536  | 27.226 | ug/L  | 98       |
| 53) m,p-Xylene                | 11.836 | 106  | 450535   | 27.480 | ug/L  | 96       |
| 54) o-Xylene                  | 12.160 | 106  | 444043   | 28.737 | ug/L  | 96       |
| 55) Styrene                   | 12.178 | 104  | 748119   | 29.107 | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 12.708 | 83   | 208687   | 34.182 | ug/L  | 100      |
| 59) Bromoform                 | 12.342 | 173  | 116614   | 30.672 | ug/L  | 98       |
| 60) Isopropylbenzene          | 12.458 | 105  | 1209600  | 27.312 | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 12.763 | 75   | 156634   | 33.823 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.940 | 105  | 992354   | 26.429 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.245 | 105  | 976860   | 26.917 | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 13.495 | 146  | 508670   | 28.348 | ug/L  | 96       |
| 65) 1,4-Dichlorobenzene       | 13.574 | 146  | 490172   | 27.571 | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 13.867 | 146  | 441693   | 28.569 | ug/L  | 93       |
| 68) 1,2-Dibromo-3-chloropr... | 14.476 | 75   | 36956    | 31.446 | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 14.623 | 180  | 351418   | 27.963 | ug/L  | 97       |
| 70) 1,2,4-trichlorobenzene    | 15.129 | 180  | 292173   | 27.949 | ug/L  | 97       |
| 71) Naphthalene               | 15.354 | 128  | 643548   | 35.113 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.543 | 180  | 267954   | 31.813 | ug/L  | 98       |

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

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