

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101223\  
 Data File : VX038270.D  
 Acq On : 12 Oct 2023 20:27  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 13 04:55:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.483 | 0.451 | 6.6   | 75    | 0.00     |
| 3 P   | Chloromethane               | 0.492 | 0.440 | 10.6  | 80    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.545 | 0.533 | 2.2#  | 81    | 0.00     |
| 5 T   | Bromomethane                | 0.744 | 0.785 | -5.5  | 85    | 0.00     |
| 6 T   | Chloroethane                | 0.484 | 0.435 | 10.1  | 83    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.077 | 1.136 | -5.5  | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.402 | 0.409 | -1.7  | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.470 | 0.490 | -4.3  | 87    | 0.00     |
| 10 T  | Methyl Iodide               | 0.677 | 0.651 | 3.8   | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.196 | 0.158 | 19.4  | 75    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.457 | 0.460 | -0.7# | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.114 | 0.139 | -21.9 | 112   | 0.00     |
| 14 T  | Allyl chloride              | 0.818 | 0.744 | 9.0   | 76    | 0.00     |
| 15 T  | Acrylonitrile               | 0.366 | 0.360 | 1.6   | 82    | 0.00     |
| 16 T  | Acetone                     | 0.336 | 0.325 | 3.3   | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.318 | 1.063 | 19.3  | 71    | 0.00     |
| 18 T  | Methyl Acetate              | 1.439 | 1.467 | -1.9  | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.822 | 1.742 | 4.4   | 79    | 0.00     |
| 20 T  | Methylene Chloride          | 0.631 | 0.573 | 9.2   | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.566 | 0.532 | 6.0   | 77    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.715 | 1.671 | 2.6   | 79    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.258 | 1.227 | 2.5   | 78    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.041 | 0.973 | 6.5   | 79    | 0.00     |
| 25 T  | 2-Butanone                  | 0.542 | 0.533 | 1.7   | 83    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.813 | 0.683 | 16.0  | 68    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.675 | 0.672 | 0.4   | 84    | 0.00     |
| 28 T  | Bromochloromethane          | 0.470 | 0.491 | -4.5  | 83    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.353 | 0.338 | 4.2   | 81    | 0.00     |
| 30 C  | Chloroform                  | 1.138 | 1.165 | -2.4# | 83    | 0.00     |
| 31 T  | Cyclohexane                 | 0.871 | 0.814 | 6.5   | 75    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.975 | 0.977 | -0.2  | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.804 | 0.788 | 2.0   | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.360 | 0.369 | -2.5  | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.497 | 0.466 | 6.2   | 80    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.590 | 0.561 | 4.9   | 80    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.489 | 0.486 | 0.6   | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.582 | 0.547 | 6.0   | 77    | 0.00     |
| 40 TM | Benzene                     | 1.390 | 1.366 | 1.7   | 81    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.294 | 0.280 | 4.8   | 79    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.555 | 0.548 | 1.3   | 81    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.881 | 0.840 | 4.7   | 77    | 0.00     |
| 44 TM | Trichloroethene             | 0.363 | 0.370 | -1.9  | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.360 | 0.356 | 1.1#  | 82    | 0.00     |
| 46 T  | Dibromomethane              | 0.279 | 0.281 | -0.7  | 84    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.496 | 0.521 | -5.0  | 82    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.420 | 0.420 | 0.0   | 81    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 13 04:55:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.011 | -10.0 | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 1.377 | 1.350 | 2.0   | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.608 | 0.623 | -2.5  | 85    | 0.00     |
| 52 CM | Toluene                     | 0.905 | 0.907 | -0.2# | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.533 | 0.527 | 1.1   | 76    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.560 | 0.565 | -0.9  | 80    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.387 | 0.403 | -4.1  | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.594 | 0.597 | -0.5  | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.626 | 0.640 | -2.2  | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.291 | 0.284 | 2.4   | 80    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.488 | 0.510 | -4.5  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.379 | 0.408 | -7.7  | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.419 | 0.435 | -3.8  | 84    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.522 | 0.548 | -5.0  | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.324 | 0.312 | 3.7   | 82    | 0.00     |
| 65 PM | Chlorobenzene               | 1.046 | 1.005 | 3.9   | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.354 | 0.369 | -4.2  | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.868 | 1.821 | 2.5#  | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.722 | 0.714 | 1.1   | 85    | 0.00     |
| 69 T  | o-Xylene                    | 0.705 | 0.701 | 0.6   | 86    | 0.00     |
| 70 T  | Styrene                     | 1.148 | 1.191 | -3.7  | 87    | 0.00     |
| 71 P  | Bromoform                   | 0.292 | 0.313 | -7.2  | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.353 | 3.154 | 5.9   | 86    | 0.00     |
| 74 T  | N-amyl acetate              | 1.432 | 1.334 | 6.8   | 81    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.230 | 1.208 | 1.8   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.137 | 1.099 | 3.3   | 89    | 0.00     |
| 77 T  | Bromobenzene                | 0.819 | 0.779 | 4.9   | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 4.100 | 3.819 | 6.9   | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.432 | 2.237 | 8.0   | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.893 | 2.740 | 5.3   | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.356 | 0.307 | 13.8  | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.877 | 2.649 | 7.9   | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.827 | 2.692 | 4.8   | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.884 | 2.768 | 4.0   | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.662 | 3.486 | 4.8   | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.021 | 2.909 | 3.7   | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.644 | 1.535 | 6.6   | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.679 | 1.565 | 6.8   | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.009 | 2.741 | 8.9   | 83    | 0.00     |
| 90 T  | Hexachloroethane            | 0.501 | 0.495 | 1.2   | 86    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.581 | 1.524 | 3.6   | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.297 | 0.282 | 5.1   | 83    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.060 | 0.975 | 8.0   | 87    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.427 | 0.401 | 6.1   | 89    | 0.00     |
| 95 T  | Naphthalene                 | 3.692 | 3.437 | 6.9   | 87    | 0.00     |

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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 13 04:55:48 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.026 | 0.955 | 6.9  | 87    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6