

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120822\  
 Data File : VX033309.D  
 Acq On : 08 Dec 2022 09:29  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 09 00:41:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X120722W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 07 12:43:54 2022  
 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   | 109   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.349 | 0.324 | 7.2   | 108   | 0.00     |
| 3 P   | Chloromethane               | 0.404 | 0.334 | 17.3  | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.461 | 0.398 | 13.7# | 101   | 0.00     |
| 5 T   | Bromomethane                | 0.338 | 0.270 | 20.1  | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.350 | 0.305 | 12.9  | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.866 | 0.801 | 7.5   | 107   | 0.00     |
| 8 T   | Diethyl Ether               | 0.313 | 0.270 | 13.7  | 107   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.459 | 0.447 | 2.6   | 109   | 0.00     |
| 10 T  | Methyl Iodide               | 0.503 | 0.433 | 13.9  | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.098 | 0.079 | 19.4  | 107   | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.453 | 0.418 | 7.7#  | 108   | 0.00     |
| 13 T  | Acrolein                    | 0.106 | 0.088 | 17.0  | 95    | 0.00     |
| 14 T  | Allyl chloride              | 0.724 | 0.652 | 9.9   | 103   | 0.00     |
| 15 T  | Acrylonitrile               | 0.243 | 0.201 | 17.3  | 97    | 0.00     |
| 16 T  | Acetone                     | 0.237 | 0.222 | 6.3   | 118   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.163 | 1.035 | 11.0  | 102   | 0.00     |
| 18 T  | Methyl Acetate              | 0.687 | 0.580 | 15.6  | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.570 | 1.431 | 8.9   | 105   | 0.00     |
| 20 T  | Methylene Chloride          | 0.529 | 0.461 | 12.9  | 106   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.496 | 0.456 | 8.1   | 106   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.551 | 1.455 | 6.2   | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.204 | 1.099 | 8.7   | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.911 | 0.816 | 10.4  | 105   | 0.00     |
| 25 T  | 2-Butanone                  | 0.341 | 0.302 | 11.4  | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.670 | 0.655 | 2.2   | 110   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.593 | 0.548 | 7.6   | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 0.381 | 0.369 | 3.1   | 107   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.221 | 0.183 | 17.2  | 95    | 0.00     |
| 30 C  | Chloroform                  | 1.012 | 0.927 | 8.4#  | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 0.762 | 0.738 | 3.1   | 108   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.870 | 0.830 | 4.6   | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.321 | 0.285 | 11.2  | 108   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.225 | 0.203 | 9.8   | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.438 | 0.429 | 2.1   | 108   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.414 | 0.362 | 12.6  | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.491 | 0.474 | 3.5   | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.491 | 0.510 | -3.9  | 110   | 0.00     |
| 40 TM | Benzene                     | 1.278 | 1.214 | 5.0   | 106   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.228 | 0.214 | 6.1   | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.508 | 0.478 | 5.9   | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.667 | 0.605 | 9.3   | 100   | 0.00     |
| 44 TM | Trichloroethene             | 0.352 | 0.342 | 2.8   | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.327 | 0.309 | 5.5#  | 106   | 0.00     |
| 46 T  | Dibromomethane              | 0.249 | 0.229 | 8.0   | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.485 | 0.465 | 4.1   | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.344 | 0.310 | 9.9   | 99    | 0.00     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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 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                 | 0.008 | 0.007 | 12.5 | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 0.470 | 0.451 | 4.0  | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.422 | 0.381 | 9.7  | 98    | 0.00     |
| 52 CM | Toluene                     | 0.827 | 0.814 | 1.6# | 106   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.473 | 0.469 | 0.8  | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.517 | 0.505 | 2.3  | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.347 | 0.332 | 4.3  | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.489 | 0.470 | 3.9  | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.558 | 0.530 | 5.0  | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.224 | 0.214 | 4.5  | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.311 | 0.286 | 8.0  | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.383 | 0.369 | 3.7  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.370 | 0.352 | 4.9  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.360 | 0.360 | 0.0  | 108   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 107   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.342 | 0.326 | 4.7  | 108   | 0.00     |
| 65 PM | Chlorobenzene               | 1.013 | 0.965 | 4.7  | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.383 | 0.365 | 4.7  | 105   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.764 | 1.748 | 0.9# | 108   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.686 | 0.687 | -0.1 | 109   | 0.00     |
| 69 T  | o-Xylene                    | 0.678 | 0.662 | 2.4  | 106   | 0.00     |
| 70 T  | Styrene                     | 1.111 | 1.115 | -0.4 | 107   | 0.00     |
| 71 P  | Bromoform                   | 0.303 | 0.285 | 5.9  | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 109   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.624 | 3.507 | 3.2  | 108   | 0.00     |
| 74 T  | N-amyl acetate              | 1.236 | 1.166 | 5.7  | 103   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.150 | 1.006 | 12.5 | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.017 | 0.818 | 19.6 | 93    | 0.00     |
| 77 T  | Bromobenzene                | 0.915 | 0.845 | 7.7  | 107   | 0.00     |
| 78 T  | n-propylbenzene             | 4.047 | 4.044 | 0.1  | 109   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.501 | 2.391 | 4.4  | 108   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.017 | 2.946 | 2.4  | 108   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.327 | 0.282 | 13.8 | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.908 | 2.764 | 5.0  | 108   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.008 | 2.887 | 4.0  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.011 | 2.927 | 2.8  | 109   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.510 | 3.526 | -0.5 | 109   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.026 | 3.003 | 0.8  | 109   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.658 | 1.597 | 3.7  | 109   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.693 | 1.599 | 5.6  | 110   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.478 | 2.574 | -3.9 | 112   | 0.00     |
| 90 T  | Hexachloroethane            | 0.514 | 0.488 | 5.1  | 106   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.657 | 1.541 | 7.0  | 108   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.248 | 0.210 | 15.3 | 99    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.001 | 0.978 | 2.3  | 112   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.401 | 0.390 | 2.7  | 112   | 0.00     |
| 95 T  | Naphthalene                 | 3.339 | 3.161 | 5.3  | 104   | 0.00     |

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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 | 1.014 | 0.971 | 4.2  | 108   | 0.00     |

(#) = Out of Range

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