

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070219\  
 Data File : VX010605.D  
 Acq On : 02 Jul 2019 10:12  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 03 02:06:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 83    | -0.01    |
| 2 T   | Dichlorodifluoromethane     | 0.348 | 0.326 | 6.3    | 81    | 0.00     |
| 3 P   | Chloromethane               | 0.405 | 0.342 | 15.6   | 73    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.443 | 0.399 | 9.9#   | 80    | 0.00     |
| 5 T   | Bromomethane                | 0.216 | 0.205 | 5.1    | 85    | 0.00     |
| 6 T   | Chloroethane                | 0.262 | 0.261 | 0.4    | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.703 | 0.721 | -2.6   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 0.252 | 0.255 | -1.2   | 86    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.426 | 0.440 | -3.3   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 0.608 | 0.565 | 7.1    | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.123 | 0.101 | 17.9   | 73    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.433 | 0.418 | 3.5#   | 82    | 0.00     |
| 13 T  | Acrolein                    | 0.081 | 0.102 | -25.9# | 111   | 0.00     |
| 14 T  | Allyl chloride              | 0.615 | 0.616 | -0.2   | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 0.243 | 0.241 | 0.8    | 83    | 0.00     |
| 16 T  | Acetone                     | 0.235 | 0.256 | -8.9   | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.163 | 0.962 | 17.3   | 71    | 0.00     |
| 18 T  | Methyl Acetate              | 0.468 | 0.476 | -1.7   | 87    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.363 | 1.403 | -2.9   | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 0.484 | 0.478 | 1.2    | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.466 | 0.444 | 4.7    | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.286 | 1.333 | -3.7   | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.111 | 1.164 | -4.8   | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.744 | 0.750 | -0.8   | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 0.345 | 0.351 | -1.7   | 83    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.646 | 0.663 | -2.6   | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.539 | 0.536 | 0.6    | 85    | 0.00     |
| 28 T  | Bromochloromethane          | 0.356 | 0.344 | 3.4    | 83    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.213 | 0.207 | 2.8    | 81    | 0.00     |
| 30 C  | Chloroform                  | 0.800 | 0.823 | -2.9#  | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 0.677 | 0.662 | 2.2    | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.706 | 0.723 | -2.4   | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.469 | 0.456 | 2.8    | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.306 | 0.309 | -1.0   | 80    | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 0.397 | 0.409 | -3.0   | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.409 | 0.431 | -5.4   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.430 | 0.443 | -3.0   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.522 | 0.536 | -2.7   | 85    | 0.00     |
| 40 TM | Benzene                     | 1.238 | 1.271 | -2.7   | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.224 | 0.236 | -5.4   | 85    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.377 | 0.420 | -11.4  | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.676 | 0.717 | -6.1   | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.370 | 0.380 | -2.7   | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.313 | 0.326 | -4.2#  | 86    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.224 | 0.237 | -5.8  | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.411 | 0.436 | -6.1  | 84    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.314 | 0.332 | -5.7  | 83    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 1.170 | 1.158 | 1.0   | 79    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.433 | 0.456 | -5.3  | 84    | 0.00     |
| 52 CM | Toluene                     | 0.815 | 0.840 | -3.1# | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.461 | 0.488 | -5.9  | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.501 | 0.534 | -6.6  | 84    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.336 | 0.359 | -6.8  | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.509 | 0.537 | -5.5  | 83    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.522 | 0.556 | -6.5  | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.242 | 0.277 | -14.5 | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.340 | 0.353 | -3.8  | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.376 | 0.398 | -5.9  | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.363 | 0.381 | -5.0  | 84    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.423 | 0.423 | 0.0   | 79    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 79    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.404 | 0.413 | -2.2  | 84    | 0.00     |
| 65 PM | Chlorobenzene               | 1.015 | 1.076 | -6.0  | 85    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.403 | -8.9  | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.714 | 1.830 | -6.8# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.664 | 0.705 | -6.2  | 84    | 0.00     |
| 69 T  | o-Xylene                    | 0.653 | 0.687 | -5.2  | 84    | 0.00     |
| 70 T  | Styrene                     | 1.095 | 1.182 | -7.9  | 84    | 0.00     |
| 71 P  | Bromoform                   | 0.322 | 0.332 | -3.1  | 77    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 80    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.389 | 3.556 | -4.9  | 86    | 0.00     |
| 74 T  | N-amyl acetate              | 1.281 | 1.350 | -5.4  | 82    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.122 | 1.135 | -1.2  | 82    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.911 | 0.970 | -6.5  | 86    | 0.00     |
| 77 T  | Bromobenzene                | 0.946 | 0.961 | -1.6  | 84    | 0.00     |
| 78 T  | n-propylbenzene             | 3.725 | 4.025 | -8.1  | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.218 | 2.309 | -4.1  | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.794 | 2.944 | -5.4  | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.391 | 0.378 | 3.3   | 77    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.524 | 2.708 | -7.3  | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.804 | 2.982 | -6.3  | 86    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.807 | 2.994 | -6.7  | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.293 | 3.541 | -7.5  | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.046 | 3.300 | -8.3  | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.652 | 1.697 | -2.7  | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.682 | 1.717 | -2.1  | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.588 | 2.884 | -11.4 | 88    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.527 | 0.549 | -4.2 | 80    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.642 | 1.663 | -1.3 | 84    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.242 | 0.233 | 3.7  | 81    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.139 | 1.216 | -6.8 | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.556 | 0.597 | -7.4 | 87    | 0.00     |
| 95 T | Naphthalene                 | 3.499 | 3.571 | -2.1 | 81    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.132 | 1.191 | -5.2 | 85    | 0.00     |

(#) = Out of Range

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