

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX060819\  
 Data File : VX010137.D  
 Acq On : 08 Jun 2019 14:38  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 10 08:12:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 02:12:13 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   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.460 | 0.474 | -3.0  | 92    | 0.00     |
| 3 P   | Chloromethane               | 0.457 | 0.448 | 2.0   | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.429 | 0.435 | -1.4# | 98    | 0.00     |
| 5 T   | Bromomethane                | 0.162 | 0.167 | -3.1  | 101   | 0.00     |
| 6 T   | Chloroethane                | 0.217 | 0.235 | -8.3  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.638 | 0.668 | -4.7  | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 0.220 | 0.223 | -1.4  | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.440 | 0.418 | 5.0   | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.681 | 0.658 | 3.4   | 91    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.120 | 0.110 | 8.3   | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.449 | 0.415 | 7.6#  | 92    | 0.00     |
| 13 T  | Acrolein                    | 0.022 | 0.024 | -9.1  | 95    | 0.00     |
| 14 T  | Allyl chloride              | 0.678 | 0.618 | 8.8   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.244 | 0.223 | 8.6   | 89    | 0.00     |
| 16 T  | Acetone                     | 0.230 | 0.223 | 3.0   | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.298 | 1.158 | 10.8  | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 0.505 | 0.444 | 12.1  | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.443 | 1.313 | 9.0   | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 0.504 | 0.460 | 8.7   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.497 | 0.450 | 9.5   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.296 | 1.227 | 5.3   | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.156 | 1.100 | 4.8   | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.787 | 0.722 | 8.3   | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 0.342 | 0.324 | 5.3   | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.718 | 0.666 | 7.2   | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.553 | 0.517 | 6.5   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.353 | 0.314 | 11.0  | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.215 | 0.194 | 9.8   | 89    | 0.00     |
| 30 C  | Chloroform                  | 0.817 | 0.765 | 6.4#  | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 0.710 | 0.684 | 3.7   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.768 | 0.694 | 9.6   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.488 | 0.454 | 7.0   | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.309 | -0.3  | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.408 | 0.392 | 3.9   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.424 | 0.395 | 6.8   | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.462 | 0.442 | 4.3   | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.555 | 0.548 | 1.3   | 96    | 0.00     |
| 40 TM | Benzene                     | 1.261 | 1.232 | 2.3   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.230 | 0.217 | 5.7   | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.403 | 0.380 | 5.7   | 90    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.710 | 0.667 | 6.1   | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.380 | 0.370 | 2.6   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.316 | 0.305 | 3.5#  | 92    | 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              | 0.237 | 0.219 | 7.6  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.442 | 0.421 | 4.8  | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.332 | 0.318 | 4.2  | 88    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0  | 90    | 0.00     |
| 50 S  | Toluene-d8                  | 1.156 | 1.163 | -0.6 | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.424 | 0.415 | 2.1  | 90    | 0.00     |
| 52 CM | Toluene                     | 0.829 | 0.800 | 3.5# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.511 | 0.496 | 2.9  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.548 | 0.522 | 4.7  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.340 | 0.329 | 3.2  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.536 | 0.527 | 1.7  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.535 | 0.515 | 3.7  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.253 | 0.249 | 1.6  | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.338 | 0.340 | -0.6 | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.402 | 0.399 | 0.7  | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.378 | 0.363 | 4.0  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.432 | 0.452 | -4.6 | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.371 | 0.355 | 4.3  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 1.032 | 0.997 | 3.4  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.397 | 0.383 | 3.5  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.757 | 1.718 | 2.2# | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.680 | 0.678 | 0.3  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.676 | 0.661 | 2.2  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.145 | 1.137 | 0.7  | 94    | 0.00     |
| 71 P  | Bromoform                   | 0.365 | 0.362 | 0.8  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.490 | 3.286 | 5.8  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 1.380 | 1.290 | 6.5  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.195 | 1.089 | 8.9  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.000 | 0.909 | 9.1  | 94    | 0.00     |
| 77 T  | Bromobenzene                | 0.960 | 0.911 | 5.1  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 3.886 | 3.731 | 4.0  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.334 | 2.191 | 6.1  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.940 | 2.789 | 5.1  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.453 | 0.426 | 6.0  | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.651 | 2.552 | 3.7  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.975 | 2.832 | 4.8  | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.969 | 2.813 | 5.3  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.467 | 3.307 | 4.6  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.169 | 3.104 | 2.1  | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.691 | 1.618 | 4.3  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.704 | 1.595 | 6.4  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.728 | 2.742 | -0.5 | 102   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.631 | 0.605 | 4.1  | 98    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.644 | 1.575 | 4.2  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.281 | 0.243 | 13.5 | 91    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.203 | 1.161 | 3.5  | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.535 | 0.514 | 3.9  | 101   | 0.00     |
| 95 T | Naphthalene                 | 3.787 | 3.484 | 8.0  | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.190 | 1.131 | 5.0  | 100   | 0.00     |

(#) = Out of Range

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