

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX031919\  
 Data File : VX008187.D  
 Acq On : 19 Mar 2019 13:16  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX031919

Quant Time: Mar 20 07:24:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X031919W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 13:15:13 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    | 118   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.606 | 0.667 | -10.1  | 121   | 0.00     |
| 3 P   | Chloromethane               | 0.761 | 0.754 | 0.9    | 120   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.758 | 0.771 | -1.7#  | 117   | 0.00     |
| 5 T   | Bromomethane                | 0.646 | 0.676 | -4.6   | 120   | 0.00     |
| 6 T   | Chloroethane                | 0.476 | 0.465 | 2.3    | 118   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.968 | 0.962 | 0.6    | 119   | 0.00     |
| 8 T   | Diethyl Ether               | 0.498 | 0.539 | -8.2   | 117   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.643 | 0.709 | -10.3  | 122   | 0.00     |
| 10 T  | Methyl Iodide               | 0.818 | 0.886 | -8.3   | 115   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.161 | 0.169 | -5.0   | 116   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.607 | 0.651 | -7.2#  | 118   | 0.00     |
| 13 T  | Acrolein                    | 0.123 | 0.120 | 2.4    | 121   | 0.00     |
| 14 T  | Allyl chloride              | 1.321 | 1.446 | -9.5   | 118   | 0.00     |
| 15 T  | Acrylonitrile               | 0.426 | 0.450 | -5.6   | 116   | 0.00     |
| 16 T  | Acetone                     | 0.427 | 0.463 | -8.4   | 122   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.956 | 2.061 | -5.4   | 120   | 0.00     |
| 18 T  | Methyl Acetate              | 0.989 | 1.084 | -9.6   | 117   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.194 | 2.401 | -9.4   | 119   | 0.00     |
| 20 T  | Methylene Chloride          | 0.712 | 0.740 | -3.9   | 118   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.655 | 0.695 | -6.1   | 119   | 0.00     |
| 22 T  | Diisopropyl ether           | 2.587 | 2.820 | -9.0   | 117   | 0.00     |
| 23 T  | Vinyl Acetate               | 2.218 | 2.487 | -12.1  | 117   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.330 | 1.424 | -7.1   | 118   | 0.00     |
| 25 T  | 2-Butanone                  | 0.630 | 0.686 | -8.9   | 118   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.002 | 1.125 | -12.3  | 122   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.747 | 0.799 | -7.0   | 119   | 0.00     |
| 28 T  | Bromochloromethane          | 0.597 | 0.583 | 2.3    | 114   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.394 | 0.430 | -9.1   | 114   | 0.00     |
| 30 C  | Chloroform                  | 1.244 | 1.333 | -7.2#  | 117   | 0.00     |
| 31 T  | Cyclohexane                 | 1.249 | 1.423 | -13.9  | 120   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.035 | 1.133 | -9.5   | 119   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.753 | 0.757 | -0.5   | 117   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 115   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.335 | 0.352 | -5.1   | 118   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.582 | 0.660 | -13.4  | 122   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.688 | 0.778 | -13.1  | 115   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.519 | 0.586 | -12.9  | 118   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.701 | 0.836 | -19.3  | 125   | 0.00     |
| 40 TM | Benzene                     | 1.723 | 1.921 | -11.5  | 118   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.386 | 0.442 | -14.5  | 117   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.631 | 0.688 | -9.0   | 117   | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.103 | 1.269 | -15.0  | 117   | 0.00     |
| 44 TM | Trichloroethene             | 0.421 | 0.461 | -9.5   | 119   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.482 | 0.532 | -10.4# | 119   | 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              | 0.292 | 0.316 | -8.2   | 117   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.557 | 0.631 | -13.3  | 118   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.586 | 0.666 | -13.7  | 117   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.011 | -10.0  | 119   | 0.00     |
| 50 S  | Toluene-d8                  | 1.269 | 1.356 | -6.9   | 118   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.713 | 0.790 | -10.8  | 114   | 0.00     |
| 52 CM | Toluene                     | 1.022 | 1.144 | -11.9# | 119   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.623 | 0.741 | -18.9  | 120   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.691 | 0.808 | -16.9  | 120   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.413 | 0.461 | -11.6  | 117   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.661 | 0.777 | -17.5  | 118   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.731 | 0.817 | -11.8  | 117   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.338 | 0.371 | -9.8   | 121   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.549 | 0.607 | -10.6  | 115   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.397 | 0.463 | -16.6  | 118   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.431 | 0.482 | -11.8  | 118   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.437 | 0.484 | -10.8  | 120   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 117   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.451 | 0.496 | -10.0  | 120   | 0.00     |
| 65 PM | Chlorobenzene               | 1.230 | 1.351 | -9.8   | 120   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.429 | 0.485 | -13.1  | 120   | 0.00     |
| 67 C  | Ethyl Benzene               | 2.168 | 2.467 | -13.8# | 120   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.796 | 0.916 | -15.1  | 121   | 0.00     |
| 69 T  | o-Xylene                    | 0.774 | 0.876 | -13.2  | 119   | 0.00     |
| 70 T  | Styrene                     | 1.258 | 1.440 | -14.5  | 120   | 0.00     |
| 71 P  | Bromoform                   | 0.326 | 0.378 | -16.0  | 120   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 120   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.457 | 4.972 | -11.6  | 121   | 0.00     |
| 74 T  | N-amyl acetate              | 2.335 | 2.539 | -8.7   | 116   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.598 | 1.619 | -1.3   | 115   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.406 | 1.428 | -1.6   | 116   | 0.00     |
| 77 T  | Bromobenzene                | 1.078 | 1.137 | -5.5   | 118   | 0.00     |
| 78 T  | n-propylbenzene             | 5.176 | 5.935 | -14.7  | 122   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.107 | 3.399 | -9.4   | 120   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.682 | 4.122 | -12.0  | 121   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.492 | 0.565 | -14.8  | 120   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.615 | 3.985 | -10.2  | 121   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.515 | 3.925 | -11.7  | 122   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.733 | 4.178 | -11.9  | 120   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.353 | 4.962 | -14.0  | 122   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.768 | 4.299 | -14.1  | 122   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.926 | 2.096 | -8.8   | 122   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.992 | 2.095 | -5.2   | 122   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.537 | 4.163 | -17.7  | 125   | 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.642 | 0.740 | -15.3 | 122   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.942 | 2.065 | -6.3  | 120   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.355 | 0.373 | -5.1  | 117   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.279 | 1.413 | -10.5 | 123   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.624 | 0.705 | -13.0 | 125   | 0.00     |
| 95 T | Naphthalene                 | 4.037 | 4.499 | -11.4 | 118   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.258 | 1.380 | -9.7  | 121   | 0.00     |

(#) = Out of Range

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