

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX110420\  
 Data File : VX019235.D  
 Acq On : 03 Nov 2020 15:54  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 04 02:35:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 13:55:07 2020  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.417 | 0.441 | -5.8   | 104   | 0.00     |
| 3 P   | Chloromethane               | 0.466 | 0.519 | -11.4  | 113   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.540 | 0.575 | -6.5#  | 104   | 0.00     |
| 5 T   | Bromomethane                | 0.369 | 0.431 | -16.8  | 116   | 0.00     |
| 6 T   | Chloroethane                | 0.345 | 0.383 | -11.0  | 107   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.848 | 0.894 | -5.4   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.326 | 0.351 | -7.7   | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.470 | 0.505 | -7.4   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 0.478 | 0.518 | -8.4   | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.127 | 0.108 | 15.0   | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.485 | 0.490 | -1.0#  | 100   | 0.00     |
| 13 T  | Acrolein                    | 0.062 | 0.074 | -19.4  | 132   | 0.00     |
| 14 T  | Allyl chloride              | 0.734 | 0.788 | -7.4   | 104   | 0.00     |
| 15 T  | Acrylonitrile               | 0.268 | 0.282 | -5.2   | 100   | 0.00     |
| 16 T  | Acetone                     | 0.222 | 0.232 | -4.5   | 102   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.473 | 1.378 | 6.4    | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 0.541 | 0.572 | -5.7   | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.679 | 1.794 | -6.8   | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 0.558 | 0.570 | -2.2   | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.558 | 0.565 | -1.3   | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.463 | 1.658 | -13.3  | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.305 | 1.453 | -11.3  | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.914 | 0.990 | -8.3   | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 0.351 | 0.377 | -7.4   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.859 | 0.920 | -7.1   | 103   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.623 | 0.643 | -3.2   | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 0.415 | 0.432 | -4.1   | 108   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.221 | 0.239 | -8.1   | 100   | 0.00     |
| 30 C  | Chloroform                  | 0.973 | 1.053 | -8.2#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 0.815 | 0.874 | -7.2   | 104   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.882 | 0.951 | -7.8   | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.645 | 0.638 | 1.1    | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.307 | 2.2    | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.462 | 0.488 | -5.6   | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.429 | 0.460 | -7.2   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.471 | 0.501 | -6.4   | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.552 | 0.601 | -8.9   | 103   | 0.00     |
| 40 TM | Benzene                     | 1.309 | 1.420 | -8.5   | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.231 | 0.245 | -6.1   | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.482 | 0.524 | -8.7   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.718 | 0.768 | -7.0   | 102   | 0.00     |
| 44 TM | Trichloroethene             | 0.375 | 0.388 | -3.5   | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.321 | 0.357 | -11.2# | 105   | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.237 | 0.253 | -6.8  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.467 | 0.521 | -11.6 | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.345 | 0.378 | -9.6  | 102   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.007 | 12.5  | 87    | 0.00     |
| 50 S  | Toluene-d8                  | 1.184 | 1.201 | -1.4  | 106   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.413 | 0.452 | -9.4  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.843 | 0.921 | -9.3# | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.534 | 0.582 | -9.0  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.561 | 0.615 | -9.6  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.333 | 0.361 | -8.4  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.503 | 0.556 | -10.5 | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.562 | 0.621 | -10.5 | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.281 | 0.305 | -8.5  | 106   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.314 | 0.346 | -10.2 | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.362 | 0.391 | -8.0  | 99    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.356 | 0.383 | -7.6  | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.448 | 0.424 | 5.4   | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.381 | 0.405 | -6.3  | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 1.022 | 1.061 | -3.8  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.368 | 0.391 | -6.3  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.821 | 1.914 | -5.1# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.683 | 0.712 | -4.2  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 0.648 | 0.668 | -3.1  | 100   | 0.00     |
| 70 T  | Styrene                     | 1.106 | 1.138 | -2.9  | 100   | 0.00     |
| 71 P  | Bromoform                   | 0.292 | 0.279 | 4.5   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.539 | 4.019 | -13.6 | 102   | 0.00     |
| 74 T  | N-amyl acetate              | 1.294 | 1.441 | -11.4 | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.106 | 1.156 | -4.5  | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.032 | 1.087 | -5.3  | 93    | 0.00     |
| 77 T  | Bromobenzene                | 0.878 | 0.931 | -6.0  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 4.040 | 4.564 | -13.0 | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.379 | 2.635 | -10.8 | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.990 | 3.267 | -9.3  | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.392 | 0.406 | -3.6  | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.905 | 3.118 | -7.3  | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.863 | 3.096 | -8.1  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.019 | 3.295 | -9.1  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.434 | 3.793 | -10.5 | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.169 | 3.480 | -9.8  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.636 | 1.668 | -2.0  | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.703 | 1.677 | 1.5   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.979 | 3.233 | -8.5  | 98    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.539 | 0.588 | -9.1 | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.571 | 1.588 | -1.1 | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.271 | 0.265 | 2.2  | 86    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.180 | 1.117 | 5.3  | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.519 | 0.510 | 1.7  | 94    | 0.00     |
| 95 T | Naphthalene                 | 3.716 | 3.687 | 0.8  | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.145 | 1.116 | 2.5  | 92    | 0.00     |

(#) = Out of Range

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