

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX010320\  
 Data File : VX014391.D  
 Acq On : 03 Jan 2020 11:01  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 06 02:41:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.447 | 0.400 | 10.5   | 87    | 0.00     |
| 3 P   | Chloromethane               | 0.600 | 0.538 | 10.3   | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.633 | 0.592 | 6.5#   | 92    | 0.00     |
| 5 T   | Bromomethane                | 0.450 | 0.459 | -2.0   | 104   | 0.00     |
| 6 T   | Chloroethane                | 0.391 | 0.386 | 1.3    | 97    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.784 | 0.809 | -3.2   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.368 | 0.379 | -3.0   | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.473 | 0.507 | -7.2   | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 0.575 | 0.579 | -0.7   | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.122 | 0.125 | -2.5   | 105   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.481 | 0.490 | -1.9#  | 100   | 0.00     |
| 13 T  | Acrolein                    | 0.070 | 0.083 | -18.6  | 121   | 0.00     |
| 14 T  | Allyl chloride              | 0.859 | 0.915 | -6.5   | 102   | 0.00     |
| 15 T  | Acrylonitrile               | 0.286 | 0.312 | -9.1   | 107   | 0.00     |
| 16 T  | Acetone                     | 0.368 | 0.349 | 5.2    | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.418 | 1.172 | 17.3   | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 0.729 | 0.798 | -9.5   | 108   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.580 | 1.754 | -11.0  | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 0.579 | 0.576 | 0.5    | 103   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.530 | 0.525 | 0.9    | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.711 | 1.883 | -10.1  | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.397 | 1.612 | -15.4  | 109   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.952 | 0.999 | -4.9   | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.454 | 0.478 | -5.3   | 99    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.739 | 0.844 | -14.2  | 110   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.599 | 0.631 | -5.3   | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 0.332 | 0.401 | -20.8# | 101   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.254 | 0.277 | -9.1   | 106   | -0.01    |
| 30 C  | Chloroform                  | 0.903 | 0.976 | -8.1#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 0.847 | 0.870 | -2.7   | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.769 | 0.835 | -8.6   | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.567 | 0.561 | 1.1    | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.304 | 0.318 | -4.6   | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.459 | 0.483 | -5.2   | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.507 | 0.568 | -12.0  | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.418 | 0.470 | -12.4  | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.566 | 0.603 | -6.5   | 101   | 0.00     |
| 40 TM | Benzene                     | 1.412 | 1.492 | -5.7   | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.281 | 0.318 | -13.2  | 109   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.479 | 0.517 | -7.9   | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.838 | 0.940 | -12.2  | 106   | 0.00     |
| 44 TM | Trichloroethene             | 0.390 | 0.411 | -5.4   | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.362 | 0.397 | -9.7#  | 105   | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.239 | 0.254 | -6.3   | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.451 | 0.522 | -15.7  | 108   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.411 | 0.458 | -11.4  | 104   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.008 | 0.0    | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.183 | 1.210 | -2.3   | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.527 | 0.576 | -9.3   | 103   | 0.00     |
| 52 CM | Toluene                     | 0.892 | 0.940 | -5.4#  | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.494 | 0.578 | -17.0  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.550 | 0.646 | -17.5  | 106   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.358 | 0.393 | -9.8   | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.562 | 0.638 | -13.5  | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.602 | 0.656 | -9.0   | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.213 | 0.255 | -19.7  | 106   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.424 | 0.458 | -8.0   | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.355 | 0.424 | -19.4  | 108   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.366 | 0.402 | -9.8   | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.433 | 0.441 | -1.8   | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.442 | 0.457 | -3.4   | 98    | 0.00     |
| 65 PM | Chlorobenzene               | 1.063 | 1.147 | -7.9   | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.439 | -15.5  | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.828 | 2.034 | -11.3# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.703 | 0.778 | -10.7  | 102   | 0.00     |
| 69 T  | o-Xylene                    | 0.689 | 0.757 | -9.9   | 101   | 0.00     |
| 70 T  | Styrene                     | 1.166 | 1.300 | -11.5  | 101   | 0.00     |
| 71 P  | Bromoform                   | 0.305 | 0.371 | -21.6# | 108   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.520 | 3.973 | -12.9  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 1.650 | 1.839 | -11.5  | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.220 | 1.332 | -9.2   | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.085 | 1.098 | -1.2   | 90    | 0.00     |
| 77 T  | Bromobenzene                | 0.969 | 1.036 | -6.9   | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 3.949 | 4.557 | -15.4  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.400 | 2.648 | -10.3  | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.963 | 3.362 | -13.5  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.385 | 0.478 | -24.2# | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.784 | 3.067 | -10.2  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.883 | 3.247 | -12.6  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.967 | 3.376 | -13.8  | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.404 | 3.951 | -16.1  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.114 | 3.614 | -16.1  | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.698 | 1.838 | -8.2   | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.726 | 1.843 | -6.8   | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.657 | 3.182 | -19.8  | 106   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.559 | 0.655 | -17.2 | 105   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.709 | 1.834 | -7.3  | 101   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.270 | 0.284 | -5.2  | 101   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.111 | 1.289 | -16.0 | 108   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.534 | 0.629 | -17.8 | 112   | 0.00     |
| 95 T | Naphthalene                 | 3.263 | 3.903 | -19.6 | 106   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.096 | 1.288 | -17.5 | 106   | 0.00     |

(#) = Out of Range

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