

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN101319\  
 Data File : VN058720.D  
 Acq On : 11 Oct 2019 22:14  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 12 00:15:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101319W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 12 00:00:30 2019  
 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     | 0#    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.623 | 0.000 | 100.0#  | 0#    | -1.83#   |
| 3 P   | Chloromethane               | 0.740 | 0.476 | 35.7#   | 0#    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.738 | 0.000 | 100.0#  | 0#    | -2.17#   |
| 5 T   | Bromomethane                | 0.449 | 0.194 | 56.8#   | 0#    | 0.00     |
| 6 T   | Chloroethane                | 0.455 | 0.119 | 73.8#   | 0#    | 0.08     |
| 7 T   | Trichlorofluoromethane      | 0.883 | 0.000 | 100.0#  | 0#    | -3.00#   |
| 8 T   | Diethyl Ether               | 0.326 | 0.000 | 100.0#  | 0#    | -3.39#   |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.503 | 0.000 | 100.0#  | 0#    | -3.73#   |
| 10 T  | Methyl Iodide               | 0.687 | 0.000 | 100.0#  | 0#    | -3.93#   |
| 11 T  | Tert butyl alcohol          | 0.113 | 0.032 | 71.7#   | 0#    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.480 | 0.000 | 100.0#  | 0#    | -3.72#   |
| 13 T  | Acrolein                    | 0.091 | 0.000 | 100.0#  | 0#    | -3.58#   |
| 14 T  | Allyl chloride              | 0.969 | 0.027 | 97.2#   | 0#    | 0.00     |
| 15 T  | Acrylonitrile               | 0.286 | 0.000 | 100.0#  | 0#    | -4.96#   |
| 16 T  | Acetone                     | 0.290 | 0.187 | 35.5#   | 0#    | 0.01     |
| 17 T  | Carbon Disulfide            | 1.535 | 0.601 | 60.8#   | 0#    | 0.00     |
| 18 T  | Methyl Acetate              | 0.735 | 0.216 | 70.6#   | 0#    | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 1.715 | 0.000 | 100.0#  | 0#    | -5.02#   |
| 20 T  | Methylene Chloride          | 0.606 | 0.315 | 48.0#   | 0#    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 0.537 | 0.000 | 100.0#  | 0#    | -5.02#   |
| 22 T  | Diisopropyl ether           | 1.884 | 0.000 | 100.0#  | 0#    | -5.93#   |
| 23 T  | Vinyl Acetate               | 1.520 | 0.000 | 100.0#  | 0#    | -5.87#   |
| 24 P  | 1,1-Dichloroethane          | 1.073 | 0.000 | 100.0#  | 0#    | -5.82#   |
| 25 T  | 2-Butanone                  | 0.419 | 0.076 | 81.9#   | 0#    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.980 | 0.897 | 8.5     | 0#    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.626 | 0.029 | 95.4#   | 0#    | 0.00     |
| 28 T  | Bromochloromethane          | 0.373 | 0.000 | 100.0#  | 0#    | -7.18#   |
| 29 T  | Tetrahydrofuran             | 0.271 | 0.000 | 100.0#  | 0#    | -7.19#   |
| 30 C  | Chloroform                  | 1.078 | 0.645 | 40.2#   | 0#    | 0.00     |
| 31 T  | Cyclohexane                 | 1.027 | 0.000 | 100.0#  | 0#    | -7.63#   |
| 32 T  | 1,1,1-Trichloroethane       | 0.919 | 0.000 | 100.0#  | 0#    | -7.55#   |
| 33 S  | 1,2-Dichloroethane-d4       | 0.700 | 1.774 | -153.4# | 1#    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0     | 0#    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.309 | 0.241 | 22.0    | 0#    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.506 | 0.000 | 100.0#  | 0#    | -7.77#   |
| 37 T  | Ethyl Acetate               | 0.511 | 0.031 | 93.9#   | 0#    | -0.07    |
| 38 T  | Carbon Tetrachloride        | 0.493 | 0.000 | 100.0#  | 0#    | -7.76#   |
| 39 T  | Methylcyclohexane           | 0.587 | 0.000 | 100.0#  | 0#    | -9.07#   |
| 40 TM | Benzene                     | 1.452 | 0.011 | 99.2#   | 0#    | 0.01     |
| 41 T  | Methacrylonitrile           | 0.239 | 0.010 | 95.8#   | 0#    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.558 | 0.000 | 100.0#  | 0#    | -8.11#   |
| 43 T  | Isopropyl Acetate           | 0.871 | 0.000 | 100.0#  | 0#    | -8.15#   |
| 44 TM | Trichloroethene             | 0.361 | 0.000 | 100.0#  | 0#    | -8.82#   |
| 45 C  | 1,2-Dichloropropane         | 0.389 | 0.000 | 100.0#  | 0#    | -9.11#   |

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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              | 0.246 | 0.000 | 100.0# | 0#    | -9.20#   |
| 47 T  | Bromodichloromethane        | 0.502 | 0.000 | 100.0# | 0#    | -9.39#   |
| 48 T  | Methyl methacrylate         | 0.395 | 0.000 | 100.0# | 0#    | -9.19#   |
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.000 | 100.0# | 0#    | -9.19#   |
| 50 S  | Toluene-d8                  | 1.235 | 1.033 | 16.4   | 0#    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.489 | 0.009 | 98.2#  | 0#    | 0.02     |
| 52 CM | Toluene                     | 0.888 | 0.019 | 97.9#  | 0#    | 0.13     |
| 53 T  | t-1,3-Dichloropropene       | 0.576 | 0.078 | 86.5#  | 0#    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.611 | 0.030 | 95.1#  | 0#    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.363 | 0.063 | 82.6#  | 0#    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.531 | 0.000 | 100.0# | 0#    | -10.43#  |
| 57 T  | 1,3-Dichloropropane         | 0.619 | 0.000 | 100.0# | 0#    | -10.71#  |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.256 | 0.000 | 100.0# | 0#    | -9.69#   |
| 59 T  | 2-Hexanone                  | 0.378 | 0.011 | 97.1#  | 0#    | 0.11     |
| 60 T  | Dibromochloromethane        | 0.375 | 0.000 | 100.0# | 0#    | -10.90#  |
| 61 T  | 1,2-Dibromoethane           | 0.364 | 0.000 | 100.0# | 0#    | -11.00#  |
| 62 S  | 4-Bromofluorobenzene        | 0.467 | 0.678 | -45.2# | 1#    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 1#    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.350 | 0.000 | 100.0# | 0#    | -10.63#  |
| 65 PM | Chlorobenzene               | 1.015 | 0.000 | 100.0# | 0#    | -11.43#  |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.375 | 0.000 | 100.0# | 0#    | -11.51#  |
| 67 C  | Ethyl Benzene               | 1.810 | 0.046 | 97.5#  | 0#    | 0.11     |
| 68 T  | m/p-Xylenes                 | 0.679 | 0.000 | 100.0# | 0#    | -11.62#  |
| 69 T  | o-Xylene                    | 0.657 | 0.000 | 100.0# | 0#    | -11.95#  |
| 70 T  | Styrene                     | 1.077 | 0.000 | 100.0# | 0#    | -11.97#  |
| 71 P  | Bromoform                   | 0.275 | 0.000 | 100.0# | 0#    | -12.13#  |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 1#    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.621 | 0.012 | 99.7#  | 0#    | 0.19     |
| 74 T  | N-amyl acetate              | 1.626 | 0.058 | 96.4#  | 0#    | 0.01     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.193 | 0.000 | 100.0# | 0#    | -12.51#  |
| 76 T  | 1,2,3-Trichloropropane      | 1.097 | 0.038 | 96.5#  | 0#    | -0.02    |
| 77 T  | Bromobenzene                | 0.881 | 0.000 | 100.0# | 0#    | -12.53#  |
| 78 T  | n-propylbenzene             | 4.220 | 0.012 | 99.7#  | 0#    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.619 | 0.012 | 99.5#  | 0#    | -0.08    |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.091 | 0.000 | 100.0# | 0#    | -12.74#  |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.409 | 0.041 | 90.0#  | 0#    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.687 | 0.012 | 99.6#  | 0#    | -0.18    |
| 83 T  | tert-Butylbenzene           | 2.648 | 0.039 | 98.5#  | 0#    | -0.26    |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.069 | 0.013 | 99.6#  | 0#    | 0.12     |
| 85 T  | sec-Butylbenzene            | 3.490 | 0.013 | 99.6#  | 0#    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.172 | 0.040 | 98.7#  | 0#    | 0.14     |
| 87 T  | 1,3-Dichlorobenzene         | 1.624 | 0.012 | 99.3#  | 0#    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.652 | 0.012 | 99.3#  | 0#    | -0.08    |
| 89 T  | n-Butylbenzene              | 2.933 | 0.025 | 99.1#  | 0#    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.568 | 0.000 | 100.0# | 0#    | -13.88#  |
| 91 T | 1,2-Dichlorobenzene         | 1.583 | 0.000 | 100.0# | 0#    | -13.66#  |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.279 | 0.038 | 86.4#  | 0#    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.966 | 0.000 | 100.0# | 0#    | -14.92#  |
| 94 T | Hexachlorobutadiene         | 0.509 | 0.000 | 100.0# | 0#    | -15.02#  |
| 95 T | Naphthalene                 | 2.775 | 0.157 | 94.3#  | 0#    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.943 | 0.000 | 100.0# | 0#    | -15.30#  |

(#) = Out of Range

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