

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092122\  
 Data File : VN074620.D  
 Acq On : 21 Sep 2022 17:53  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 22 06:59:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091522W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 15 19:20:33 2022  
 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 69    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.544 | 0.379 | 30.3#  | 57    | 0.00     |
| 3 P   | Chloromethane               | 1.009 | 0.802 | 20.5   | 66    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.979 | 1.057 | -8.0#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 0.517 | 0.834 | -61.3# | 121   | 0.00     |
| 6 T   | Chloroethane                | 0.669 | 0.956 | -42.9# | 115   | -0.02    |
| 7 T   | Trichlorofluoromethane      | 1.082 | 1.014 | 6.3    | 74    | -0.02    |
| 8 T   | Diethyl Ether               | 0.552 | 0.454 | 17.8   | 65    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.669 | 0.573 | 14.3   | 68    | -0.02    |
| 10 T  | Methyl Iodide               | 0.789 | 0.664 | 15.8   | 62    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.276 | 0.232 | 15.9   | 69    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.719 | 0.540 | 24.9#  | 64    | 0.00     |
| 13 T  | Acrolein                    | 0.101 | 0.098 | 3.0    | 70    | 0.00     |
| 14 T  | Allyl chloride              | 1.572 | 1.340 | 14.8   | 66    | 0.00     |
| 15 T  | Acrylonitrile               | 0.621 | 0.620 | 0.2    | 76    | 0.00     |
| 16 T  | Acetone                     | 0.543 | 0.535 | 1.5    | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.806 | 1.313 | 27.3#  | 58    | -0.01    |
| 18 T  | Methyl Acetate              | 1.686 | 1.620 | 3.9    | 77    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.775 | 2.425 | 12.6   | 67    | 0.00     |
| 20 T  | Methylene Chloride          | 0.930 | 0.723 | 22.3   | 67    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.785 | 0.618 | 21.3   | 65    | 0.00     |
| 22 T  | Diisopropyl ether           | 3.157 | 3.116 | 1.3    | 75    | 0.00     |
| 23 T  | Vinyl Acetate               | 2.785 | 2.784 | 0.0    | 74    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.578 | 1.399 | 11.3   | 69    | 0.00     |
| 25 T  | 2-Butanone                  | 0.901 | 0.948 | -5.2   | 79    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.361 | 1.042 | 23.4   | 61    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.926 | 0.771 | 16.7   | 65    | 0.00     |
| 28 T  | Bromochloromethane          | 0.544 | 0.442 | 18.8   | 74    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.593 | 0.643 | -8.4   | 80    | 0.00     |
| 30 C  | Chloroform                  | 1.457 | 1.398 | 4.0#   | 72    | 0.00     |
| 31 T  | Cyclohexane                 | 1.506 | 1.225 | 18.7   | 65    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.278 | 1.123 | 12.1   | 69    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.848 | 0.861 | -1.5   | 75    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 69    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.332 | 0.351 | -5.7   | 74    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.588 | 0.525 | 10.7   | 69    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.908 | 0.952 | -4.8   | 76    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.543 | 0.497 | 8.5    | 68    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.699 | 0.609 | 12.9   | 63    | 0.00     |
| 40 TM | Benzene                     | 1.818 | 1.691 | 7.0    | 69    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.439 | 0.443 | -0.9   | 76    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.624 | 0.611 | 2.1    | 72    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.422 | 1.468 | -3.2   | 76    | 0.00     |
| 44 TM | Trichloroethene             | 0.393 | 0.339 | 13.7   | 67    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.500 | 0.468 | 6.4#   | 70    | 0.00     |
| 46 T  | Dibromomethane              | 0.313 | 0.305 | 2.6    | 73    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.613 | 0.596 | 2.8    | 71    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.631 | 0.641 | -1.6   | 77    | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.012 | 0.013 | -8.3  | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 1.285 | 1.305 | -1.6  | 73    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.929 | 1.083 | -16.6 | 83    | 0.00     |
| 52 CM | Toluene                     | 1.066 | 1.042 | 2.3#  | 70    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.715 | 0.681 | 4.8   | 69    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.765 | 0.719 | 6.0   | 69    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.452 | 0.437 | 3.3   | 72    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.807 | 0.815 | -1.0  | 73    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.792 | 0.817 | -3.2  | 76    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.355 | 0.310 | 12.7  | 61    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.709 | 0.838 | -18.2 | 84    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.432 | 0.441 | -2.1  | 74    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.439 | 0.448 | -2.1  | 73    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.440 | 0.453 | -3.0  | 70    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 71    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.343 | 0.286 | 16.6  | 66    | 0.00     |
| 65 PM | Chlorobenzene               | 1.255 | 1.146 | 8.7   | 71    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.456 | 0.423 | 7.2   | 72    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.305 | 2.209 | 4.2#  | 72    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.852 | 0.818 | 4.0   | 71    | 0.00     |
| 69 T  | o-Xylene                    | 0.869 | 0.844 | 2.9   | 72    | 0.00     |
| 70 T  | Styrene                     | 1.445 | 1.387 | 4.0   | 71    | 0.00     |
| 71 P  | Bromoform                   | 0.335 | 0.333 | 0.6   | 72    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 71    | 0.00     |
| 73 T  | Isopropylbenzene            | 5.120 | 4.731 | 7.6   | 72    | 0.00     |
| 74 T  | N-amyl acetate              | 3.201 | 3.175 | 0.8   | 81    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 2.052 | 1.941 | 5.4   | 78    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.539 | 1.488 | 3.3   | 79    | 0.00     |
| 77 T  | Bromobenzene                | 1.094 | 0.990 | 9.5   | 73    | 0.00     |
| 78 T  | n-propylbenzene             | 6.098 | 5.772 | 5.3   | 72    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.640 | 3.216 | 11.6  | 70    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 4.173 | 3.915 | 6.2   | 72    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.713 | 0.585 | 18.0  | 63    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.460 | 3.188 | 7.9   | 72    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.798 | 3.431 | 9.7   | 71    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 4.200 | 3.945 | 6.1   | 73    | 0.00     |
| 85 T  | sec-Butylbenzene            | 5.215 | 5.058 | 3.0   | 73    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 4.066 | 3.969 | 2.4   | 72    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 2.010 | 1.902 | 5.4   | 74    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 2.020 | 1.867 | 7.6   | 74    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.665 | 3.574 | 2.5   | 72    | 0.00     |
| 90 T  | Hexachloroethane            | 0.885 | 0.777 | 12.2  | 69    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 2.085 | 1.925 | 7.7   | 74    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.453 | 0.383 | 15.5  | 68    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.993 | 0.892 | 10.2  | 70    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.437 | 0.394 | 9.8   | 73    | 0.00     |
| 95 T  | Naphthalene                 | 4.204 | 3.757 | 10.6  | 69    | 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               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.032 | 0.911 | 11.7 | 69    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6