

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071222\  
 Data File : VN073427.D  
 Acq On : 12 Jul 2022 09:58  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 13 06:16:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062822W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 29 01:54:03 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   | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.731 | 0.707 | 3.3   | 78    | 0.00     |
| 3 P   | Chloromethane               | 0.710 | 0.677 | 4.6   | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.603 | 0.572 | 5.1#  | 79    | 0.00     |
| 5 T   | Bromomethane                | 0.285 | 0.276 | 3.2   | 84    | 0.00     |
| 6 T   | Chloroethane                | 0.355 | 0.349 | 1.7   | 83    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.043 | 1.048 | -0.5  | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 0.424 | 0.425 | -0.2  | 82    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.616 | 0.617 | -0.2  | 85    | 0.00     |
| 10 T  | Methyl Iodide               | 0.614 | 0.636 | -3.6  | 74    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.175 | 0.161 | 8.0   | 72    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.589 | 0.558 | 5.3#  | 79    | 0.00     |
| 13 T  | Acrolein                    | 0.111 | 0.082 | 26.1# | 60    | 0.00     |
| 14 T  | Allyl chloride              | 1.240 | 1.269 | -2.3  | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 0.450 | 0.491 | -9.1  | 88    | 0.00     |
| 16 T  | Acetone                     | 0.405 | 0.455 | -12.3 | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.526 | 1.322 | 13.4  | 70    | 0.00     |
| 18 T  | Methyl Acetate              | 1.135 | 1.272 | -12.1 | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.145 | 2.262 | -5.5  | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.712 | 0.690 | 3.1   | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.615 | 0.592 | 3.7   | 81    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.314 | 2.553 | -10.3 | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 2.072 | 2.184 | -5.4  | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.197 | 1.285 | -7.4  | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.645 | 0.705 | -9.3  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.107 | 1.045 | 5.6   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.745 | 0.737 | 1.1   | 82    | 0.00     |
| 28 T  | Bromochloromethane          | 0.501 | 0.589 | -17.6 | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.442 | 0.474 | -7.2  | 86    | 0.00     |
| 30 C  | Chloroform                  | 1.206 | 1.274 | -5.6# | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 1.182 | 1.084 | 8.3   | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.075 | 1.090 | -1.4  | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.722 | 0.721 | 0.1   | 87    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.333 | 0.344 | -3.3  | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.512 | 0.538 | -5.1  | 85    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.773 | 0.833 | -7.8  | 86    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.529 | 0.524 | 0.9   | 80    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.637 | 0.651 | -2.2  | 82    | 0.00     |
| 40 TM | Benzene                     | 1.580 | 1.646 | -4.2  | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.375 | 0.420 | -12.0 | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.573 | 0.622 | -8.6  | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.112 | 1.213 | -9.1  | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.402 | 0.392 | 2.5   | 78    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.403 | 0.439 | -8.9# | 86    | 0.00     |
| 46 T  | Dibromomethane              | 0.273 | 0.291 | -6.6  | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.529 | 0.589 | -11.3 | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.515 | 0.538 | -4.5  | 78    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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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                 | 0.010 | 0.010 | 0.0   | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 1.181 | 1.174 | 0.6   | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.705 | 0.814 | -15.5 | 89    | 0.00     |
| 52 CM | Toluene                     | 0.976 | 1.028 | -5.3# | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.583 | 0.624 | -7.0  | 81    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.629 | 0.687 | -9.2  | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.402 | 0.427 | -6.2  | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.650 | 0.690 | -6.2  | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.689 | 0.734 | -6.5  | 85    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.290 | 0.327 | -12.8 | 82    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.537 | 0.618 | -15.1 | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.383 | 0.430 | -12.3 | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.401 | 0.430 | -7.2  | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.454 | 0.485 | -6.8  | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.408 | 0.391 | 4.2   | 79    | 0.00     |
| 65 PM | Chlorobenzene               | 1.131 | 1.146 | -1.3  | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.416 | 0.423 | -1.7  | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.053 | 2.119 | -3.2# | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.775 | 0.799 | -3.1  | 83    | 0.00     |
| 69 T  | o-Xylene                    | 0.791 | 0.797 | -0.8  | 83    | 0.00     |
| 70 T  | Styrene                     | 1.221 | 1.332 | -9.1  | 86    | 0.00     |
| 71 P  | Bromoform                   | 0.304 | 0.340 | -11.8 | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.318 | 4.338 | -0.5  | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 2.162 | 2.071 | 4.2   | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.433 | 1.439 | -0.4  | 86    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.307 | 1.415 | -8.3  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 1.004 | 0.983 | 2.1   | 84    | 0.00     |
| 78 T  | n-propylbenzene             | 4.797 | 5.096 | -6.2  | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.036 | 3.032 | 0.1   | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.519 | 3.577 | -1.6  | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.477 | 0.469 | 1.7   | 79    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.939 | 2.982 | -1.5  | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.155 | 3.168 | -0.4  | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.514 | 3.598 | -2.4  | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.237 | 4.493 | -6.0  | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.422 | 3.672 | -7.3  | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.801 | 1.794 | 0.4   | 84    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.804 | 1.779 | 1.4   | 84    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.852 | 3.138 | -10.0 | 87    | 0.00     |
| 90 T  | Hexachloroethane            | 0.638 | 0.642 | -0.6  | 81    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.835 | 1.834 | 0.1   | 85    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.348 | 0.339 | 2.6   | 77    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.955 | 0.978 | -2.4  | 82    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.425 | 0.430 | -1.2  | 85    | 0.00     |
| 95 T  | Naphthalene                 | 3.854 | 3.583 | 7.0   | 77    | 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 | 0.985 | 0.992 | -0.7 | 81    | 0.00     |

(#) = Out of Range

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