

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN092120\  
 Data File : VN063502.D  
 Acq On : 21 Sep 2020 22:05  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 22 05:12:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.566 | 0.526 | 7.1    | 93    | 0.00     |
| 3 P   | Chloromethane               | 0.749 | 0.641 | 14.4   | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.664 | 0.635 | 4.4#   | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.394 | 0.399 | -1.3   | 105   | 0.00     |
| 6 T   | Chloroethane                | 0.408 | 0.377 | 7.6    | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.991 | 1.006 | -1.5   | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 0.386 | 0.373 | 3.4    | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.557 | 0.537 | 3.6    | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 0.725 | 0.721 | 0.6    | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.118 | 0.113 | 4.2    | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.564 | 0.530 | 6.0#   | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.044 | 0.068 | -54.5# | 150#  | 0.00     |
| 14 T  | Allyl chloride              | 1.116 | 1.049 | 6.0    | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 0.300 | 0.298 | 0.7    | 98    | 0.00     |
| 16 T  | Acetone                     | 0.274 | 0.265 | 3.3    | 101   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.641 | 1.472 | 10.3   | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 0.694 | 0.707 | -1.9   | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.103 | 2.010 | 4.4    | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 0.693 | 0.632 | 8.8    | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.625 | 0.577 | 7.7    | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.276 | 2.140 | 6.0    | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.869 | 1.804 | 3.5    | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.243 | 1.161 | 6.6    | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.421 | 0.409 | 2.9    | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.094 | 0.935 | 14.5   | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.708 | 0.689 | 2.7    | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.574 | 0.555 | 3.3    | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.287 | 0.273 | 4.9    | 97    | 0.00     |
| 30 C  | Chloroform                  | 1.247 | 1.203 | 3.5#   | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 1.176 | 0.984 | 16.3   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.109 | 1.076 | 3.0    | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.851 | 0.803 | 5.6    | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.346 | 0.317 | 8.4    | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.533 | 0.490 | 8.1    | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.523 | 0.501 | 4.2    | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.544 | 0.517 | 5.0    | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.578 | 0.499 | 13.7   | 88    | 0.00     |
| 40 TM | Benzene                     | 1.521 | 1.448 | 4.8    | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.235 | 0.227 | 3.4    | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.612 | 0.582 | 4.9    | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.935 | 0.865 | 7.5    | 94    | 0.00     |
| 44 TM | Trichloroethene             | 0.369 | 0.360 | 2.4    | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.414 | 0.395 | 4.6#   | 95    | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.272 | 0.262 | 3.7  | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.565 | 0.543 | 3.9  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.459 | 0.424 | 7.6  | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.007 | 0.0  | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 1.302 | 1.223 | 6.1  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.523 | 0.511 | 2.3  | 98    | 0.00     |
| 52 CM | Toluene                     | 0.914 | 0.902 | 1.3# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.631 | 0.601 | 4.8  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.666 | 0.631 | 5.3  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.363 | 0.364 | -0.3 | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.567 | 0.560 | 1.2  | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.655 | 0.623 | 4.9  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.297 | 0.291 | 2.0  | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.379 | 0.378 | 0.3  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.410 | 0.405 | 1.2  | 99    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.377 | 0.377 | 0.0  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.477 | 0.467 | 2.1  | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.340 | 0.344 | -1.2 | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.061 | 1.031 | 2.8  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.389 | 0.389 | 0.0  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.999 | 1.975 | 1.2# | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.721 | 0.709 | 1.7  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 0.686 | 0.699 | -1.9 | 101   | 0.00     |
| 70 T  | Styrene                     | 1.151 | 1.191 | -3.5 | 99    | 0.00     |
| 71 P  | Bromoform                   | 0.290 | 0.295 | -1.7 | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.007 | 3.884 | 3.1  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 1.897 | 1.826 | 3.7  | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.241 | 1.201 | 3.2  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.238 | 1.114 | 10.0 | 98    | 0.00     |
| 77 T  | Bromobenzene                | 0.901 | 0.906 | -0.6 | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 4.667 | 4.455 | 4.5  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.797 | 2.720 | 2.8  | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.341 | 3.277 | 1.9  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.451 | 0.420 | 6.9  | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.956 | 2.937 | 0.6  | 101   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.758 | 2.628 | 4.7  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.375 | 3.316 | 1.7  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.691 | 3.520 | 4.6  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.256 | 3.168 | 2.7  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.671 | 1.639 | 1.9  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.698 | 1.675 | 1.4  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.001 | 2.890 | 3.7  | 94    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.620 | 0.566 | 8.7  | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.640 | 1.633 | 0.4  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.295 | 0.283 | 4.1  | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.967 | 0.935 | 3.3  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.400 | 0.406 | -1.5 | 99    | 0.00     |
| 95 T | Naphthalene                 | 3.194 | 3.154 | 1.3  | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.934 | 0.897 | 4.0  | 91    | 0.00     |

(#) = Out of Range

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