

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF012319\  
 Data File : VF061478.D  
 Acq On : 23 Jan 2019 10:29  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 24 03:05:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 16 04:51:59 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    | 106   | -0.01    |
| 2 T   | Dichlorodifluoromethane     | 0.982 | 0.952 | 3.1    | 101   | 0.00     |
| 3 P   | Chloromethane               | 0.720 | 0.785 | -9.0   | 125   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.641 | 0.672 | -4.8#  | 118   | 0.00     |
| 5 T   | Bromomethane                | 0.418 | 0.437 | -4.5   | 109   | -0.03    |
| 6 T   | Chloroethane                | 0.284 | 0.308 | -8.5   | 108   | -0.01    |
| 7 T   | Trichlorofluoromethane      | 1.246 | 1.179 | 5.4    | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 0.160 | 0.163 | -1.9   | 109   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.599 | 0.604 | -0.8   | 113   | -0.01    |
| 10 T  | Methyl Iodide               | 0.928 | 0.971 | -4.6   | 111   | -0.02    |
| 11 T  | Tert butyl alcohol          | 0.026 | 0.024 | 7.7    | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.445 | 0.485 | -9.0#  | 121   | -0.01    |
| 13 T  | Acrolein                    | 0.022 | 0.023 | -4.5   | 108   | 0.00     |
| 14 T  | Allyl chloride              | 0.699 | 0.849 | -21.5  | 164#  | 0.00     |
| 15 T  | Acrylonitrile               | 0.067 | 0.071 | -6.0   | 125   | 0.00     |
| 16 T  | Acetone                     | 0.124 | 0.169 | -36.3# | 150   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.387 | 1.503 | -8.4   | 117   | -0.03    |
| 18 T  | Methyl Acetate              | 0.246 | 0.223 | 9.3    | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.997 | 0.947 | 5.0    | 101   | -0.01    |
| 20 T  | Methylene Chloride          | 0.477 | 0.450 | 5.7    | 116   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.489 | 0.476 | 2.7    | 112   | -0.01    |
| 22 T  | Diisopropyl ether           | 1.583 | 1.642 | -3.7   | 110   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.640 | 0.733 | -14.5  | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.993 | 1.004 | -1.1   | 108   | 0.00     |
| 25 T  | 2-Butanone                  | 0.206 | 0.228 | -10.7  | 120   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.610 | 0.632 | -3.6   | 122   | -0.01    |
| 27 T  | cis-1,2-Dichloroethene      | 0.722 | 0.739 | -2.4   | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 0.446 | 0.411 | 7.8    | 105   | -0.01    |
| 29    | Tetrahydrofuran             | 0.089 | 0.081 | 9.0    | 93    | -0.01    |
| 30 C  | Chloroform                  | 1.340 | 1.393 | -4.0#  | 109   | 0.00     |
| 31 T  | Cyclohexane                 | 0.992 | 0.987 | 0.5    | 110   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.983 | 0.983 | 0.0    | 126   | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.617 | 0.567 | 8.1    | 95    | -0.01    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 106   | -0.01    |
| 35 S  | Dibromofluoromethane        | 0.395 | 0.398 | -0.8   | 105   | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 0.580 | 0.589 | -1.6   | 106   | -0.01    |
| 37 T  | Ethyl Acetate               | 0.232 | 0.206 | 11.2   | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.507 | 0.531 | -4.7   | 119   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.628 | 0.660 | -5.1   | 122   | -0.01    |
| 40 TM | Benzene                     | 1.290 | 1.277 | 1.0    | 109   | -0.01    |
| 41 T  | Methacrylonitrile           | 0.123 | 0.115 | 6.5    | 103   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.460 | 0.428 | 7.0    | 94    | -0.01    |
| 43 T  | Isopropyl Acetate           | 0.291 | 0.282 | 3.1    | 100   | -0.01    |
| 44 TM | Trichloroethene             | 0.396 | 0.416 | -5.1   | 111   | -0.01    |
| 45 C  | 1,2-Dichloropropane         | 0.339 | 0.350 | -3.2#  | 105   | -0.01    |

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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              | 0.225 | 0.217 | 3.6   | 96    | -0.01    |
| 47 T  | Bromodichloromethane        | 0.557 | 0.564 | -1.3  | 105   | -0.01    |
| 48 T  | Methyl methacrylate         | 0.195 | 0.188 | 3.6   | 99    | -0.01    |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.001 | 0.0   | 89    | -0.01    |
| 50 S  | Toluene-d8                  | 1.081 | 1.097 | -1.5  | 108   | -0.01    |
| 51 T  | 4-Methyl-2-Pentanone        | 0.214 | 0.195 | 8.9   | 96    | -0.01    |
| 52 CM | Toluene                     | 0.850 | 0.860 | -1.2# | 109   | -0.01    |
| 53 T  | t-1,3-Dichloropropene       | 0.442 | 0.425 | 3.8   | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.553 | 0.623 | -12.7 | 107   | -0.01    |
| 55 T  | 1,1,2-Trichloroethane       | 0.241 | 0.244 | -1.2  | 103   | -0.01    |
| 56 T  | Ethyl methacrylate          | 0.281 | 0.262 | 6.8   | 97    | -0.01    |
| 57 T  | 1,3-Dichloropropane         | 0.452 | 0.436 | 3.5   | 96    | -0.01    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.023 | 0.026 | -13.0 | 90    | -0.01    |
| 59 T  | 2-Hexanone                  | 0.149 | 0.172 | -15.4 | 121   | -0.01    |
| 60 T  | Dibromochloromethane        | 0.353 | 0.355 | -0.6  | 100   | -0.01    |
| 61 T  | 1,2-Dibromoethane           | 0.276 | 0.257 | 6.9   | 94    | -0.01    |
| 62 S  | 4-Bromofluorobenzene        | 0.505 | 0.485 | 4.0   | 102   | -0.01    |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | -0.01    |
| 64 T  | Tetrachloroethene           | 0.376 | 0.386 | -2.7  | 99    | -0.01    |
| 65 PM | Chlorobenzene               | 1.017 | 1.030 | -1.3  | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.405 | 0.428 | -5.7  | 106   | -0.01    |
| 67 C  | Ethyl Benzene               | 1.858 | 1.969 | -6.0# | 110   | -0.01    |
| 68 T  | m/p-Xylenes                 | 0.668 | 0.683 | -2.2  | 105   | -0.01    |
| 69 T  | o-Xylene                    | 0.724 | 0.786 | -8.6  | 111   | -0.01    |
| 70 T  | Styrene                     | 0.991 | 1.007 | -1.6  | 109   | -0.01    |
| 71 P  | Bromoform                   | 0.182 | 0.185 | -1.6  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 99    | -0.01    |
| 73 T  | Isopropylbenzene            | 4.067 | 4.546 | -11.8 | 105   | -0.01    |
| 74 T  | N-amyl acetate              | 0.962 | 1.034 | -7.5  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.724 | 0.748 | -3.3  | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.521 | 0.539 | -3.5  | 99    | -0.01    |
| 77 T  | Bromobenzene                | 0.859 | 0.936 | -9.0  | 101   | -0.01    |
| 78 T  | n-propylbenzene             | 4.884 | 5.388 | -10.3 | 108   | -0.01    |
| 79 T  | 2-Chlorotoluene             | 2.822 | 3.068 | -8.7  | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.282 | 3.569 | -8.7  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.226 | 0.232 | -2.7  | 89    | -0.01    |
| 82 T  | 4-Chlorotoluene             | 2.847 | 2.956 | -3.8  | 101   | -0.01    |
| 83 T  | tert-Butylbenzene           | 3.397 | 3.763 | -10.8 | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.380 | 3.533 | -4.5  | 103   | -0.01    |
| 85 T  | sec-Butylbenzene            | 4.613 | 5.127 | -11.1 | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.787 | 4.052 | -7.0  | 105   | -0.01    |
| 87 T  | 1,3-Dichlorobenzene         | 1.697 | 1.677 | 1.2   | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.623 | 1.704 | -5.0  | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.905 | 4.157 | -6.5  | 104   | -0.01    |

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|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.893 | 1.029 | -15.2 | 109   | -0.01    |
| 91 T | 1,2-Dichlorobenzene         | 1.607 | 1.640 | -2.1  | 97    | -0.01    |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.128 | 0.133 | -3.9  | 95    | -0.01    |
| 93 T | 1,2,4-Trichlorobenzene      | 1.125 | 1.160 | -3.1  | 98    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.698 | 0.793 | -13.6 | 107   | 0.00     |
| 95 T | Naphthalene                 | 2.138 | 2.073 | 3.0   | 89    | -0.01    |
| 96 T | 1,2,3-Trichlorobenzene      | 1.042 | 1.046 | -0.4  | 94    | -0.01    |

(#) = Out of Range

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