

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081219\  
 Data File : VD063500.D  
 Acq On : 12 Aug 2019 20:59  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 13 07:48:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080919S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 2019  
 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    | 84    | -0.02    |
| 2 T   | Dichlorodifluoromethane     | 0.605 | 0.610 | -0.8   | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.473 | 0.467 | 1.3    | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.469 | 0.499 | -6.4#  | 87    | -0.02    |
| 5 T   | Bromomethane                | 0.221 | 0.261 | -18.1  | 92    | -0.02    |
| 6 T   | Chloroethane                | 0.215 | 0.247 | -14.9  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.920 | 1.006 | -9.3   | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.130 | 0.153 | -17.7  | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.543 | 0.556 | -2.4   | 85    | -0.02    |
| 10 T  | Methyl Iodide               | 0.769 | 0.856 | -11.3  | 88    | -0.02    |
| 11 T  | Tert butyl alcohol          | 0.023 | 0.027 | -17.4  | 96    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.404 | 0.377 | 6.7#   | 73    | -0.02    |
| 13 T  | Acrolein                    | 0.023 | 0.030 | -30.4# | 120   | -0.02    |
| 14 T  | Allyl chloride              | 0.607 | 0.664 | -9.4   | 92    | -0.02    |
| 15 T  | Acrylonitrile               | 0.062 | 0.065 | -4.8   | 86    | -0.02    |
| 16 T  | Acetone                     | 0.109 | 0.107 | 1.8    | 73    | -0.02    |
| 17 T  | Carbon Disulfide            | 1.275 | 1.314 | -3.1   | 86    | -0.02    |
| 18 T  | Methyl Acetate              | 0.206 | 0.268 | -30.1# | 118   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.808 | 0.945 | -17.0  | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 0.470 | 0.475 | -1.1   | 89    | -0.02    |
| 21 T  | trans-1,2-Dichloroethene    | 0.425 | 0.482 | -13.4  | 89    | -0.02    |
| 22 T  | Diisopropyl ether           | 1.253 | 1.321 | -5.4   | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.729 | 0.781 | -7.1   | 88    | -0.02    |
| 24 P  | 1,1-Dichloroethane          | 0.777 | 0.856 | -10.2  | 91    | -0.02    |
| 25 T  | 2-Butanone                  | 0.107 | 0.113 | -5.6   | 85    | -0.02    |
| 26 T  | 2,2-Dichloropropane         | 0.774 | 0.819 | -5.8   | 87    | -0.02    |
| 27 T  | cis-1,2-Dichloroethene      | 0.465 | 0.502 | -8.0   | 88    | -0.02    |
| 28 T  | Bromochloromethane          | 0.315 | 0.331 | -5.1   | 85    | -0.02    |
| 29    | Tetrahydrofuran             | 0.050 | 0.053 | -6.0   | 87    | -0.02    |
| 30 C  | Chloroform                  | 0.966 | 1.088 | -12.6# | 94    | -0.02    |
| 31 T  | Cyclohexane                 | 0.483 | 0.502 | -3.9   | 82    | -0.02    |
| 32 T  | 1,1,1-Trichloroethane       | 0.924 | 1.047 | -13.3  | 93    | -0.02    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.534 | 0.576 | -7.9   | 78    | -0.02    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 89    | -0.02    |
| 35 S  | Dibromofluoromethane        | 0.421 | 0.446 | -5.9   | 80    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.442 | 0.486 | -10.0  | 92    | -0.02    |
| 37 T  | Ethyl Acetate               | 0.185 | 0.201 | -8.6   | 93    | -0.03    |
| 38 T  | Carbon Tetrachloride        | 0.666 | 0.774 | -16.2  | 91    | -0.02    |
| 39 T  | Methylcyclohexane           | 0.376 | 0.355 | 5.6    | 76    | -0.02    |
| 40 TM | Benzene                     | 0.973 | 1.001 | -2.9   | 85    | -0.02    |
| 41 T  | Methacrylonitrile           | 0.233 | 0.259 | -11.2  | 93    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.489 | 0.558 | -14.1  | 95    | -0.02    |
| 43 T  | Isopropyl Acetate           | 0.248 | 0.259 | -4.4   | 89    | -0.02    |
| 44 TM | Trichloroethene             | 0.372 | 0.394 | -5.9   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.227 | 0.252 | -11.0# | 96    | -0.02    |

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 Quant Title : SW846 8260  
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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) |
|-------|-----------------------------|-------|-------|---------|-------|----------|
| 46 T  | Dibromomethane              | 0.193 | 0.214 | -10.9   | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.496 | 0.569 | -14.7   | 99    | -0.02    |
| 48 T  | Methyl methacrylate         | 0.168 | 0.178 | -6.0    | 90    | -0.02    |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.002 | -100.0# | 89    | -0.01    |
| 50 S  | Toluene-d8                  | 0.926 | 1.000 | -8.0    | 79    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.170 | 0.189 | -11.2   | 99    | 0.00     |
| 52 CM | Toluene                     | 0.627 | 0.701 | -11.8#  | 99    | -0.02    |
| 53 T  | t-1,3-Dichloropropene       | 0.405 | 0.473 | -16.8   | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.457 | 0.505 | -10.5   | 92    | -0.02    |
| 55 T  | 1,1,2-Trichloroethane       | 0.212 | 0.232 | -9.4    | 95    | -0.02    |
| 56 T  | Ethyl methacrylate          | 0.230 | 0.256 | -11.3   | 92    | -0.02    |
| 57 T  | 1,3-Dichloropropane         | 0.320 | 0.335 | -4.7    | 89    | -0.02    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.121 | 0.136 | -12.4   | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.124 | 0.139 | -12.1   | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.385 | 0.449 | -16.6   | 98    | -0.02    |
| 61 T  | 1,2-Dibromoethane           | 0.256 | 0.299 | -16.8   | 101   | -0.02    |
| 62 S  | 4-Bromofluorobenzene        | 0.420 | 0.451 | -7.4    | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0     | 87    | -0.02    |
| 64 T  | Tetrachloroethene           | 0.386 | 0.398 | -3.1    | 89    | -0.02    |
| 65 PM | Chlorobenzene               | 0.937 | 0.980 | -4.6    | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.412 | 0.487 | -18.2   | 102   | -0.02    |
| 67 C  | Ethyl Benzene               | 1.629 | 1.791 | -9.9#   | 94    | -0.02    |
| 68 T  | m/p-Xylenes                 | 0.572 | 0.618 | -8.0    | 95    | -0.02    |
| 69 T  | o-Xylene                    | 0.551 | 0.565 | -2.5    | 88    | 0.00     |
| 70 T  | Styrene                     | 0.980 | 0.921 | 6.0     | 83    | 0.00     |
| 71 P  | Bromoform                   | 0.283 | 0.353 | -24.7#  | 105   | -0.02    |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0     | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.180 | 3.550 | -11.6   | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 0.798 | 0.851 | -6.6    | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.528 | 0.595 | -12.7   | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.574 | 0.628 | -9.4    | 93    | 0.00     |
| 77 T  | Bromobenzene                | 0.869 | 0.981 | -12.9   | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 3.721 | 3.763 | -1.1    | 88    | -0.02    |
| 79 T  | 2-Chlorotoluene             | 2.145 | 2.277 | -6.2    | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.779 | 2.927 | -5.3    | 90    | -0.02    |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.154 | 0.161 | -4.5    | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.580 | 2.768 | -7.3    | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.926 | 3.009 | -2.8    | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.571 | 2.811 | -9.3    | 92    | -0.02    |
| 85 T  | sec-Butylbenzene            | 3.107 | 3.187 | -2.6    | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.971 | 2.774 | 6.6     | 78    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.572 | 1.699 | -8.1    | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.508 | 1.590 | -5.4    | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.712 | 2.848 | -5.0    | 94    | -0.02    |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.747 | 0.805 | -7.8  | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.334 | 1.457 | -9.2  | 96    | -0.02    |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.099 | 0.107 | -8.1  | 95    | -0.02    |
| 93 T | 1,2,4-Trichlorobenzene      | 0.982 | 1.089 | -10.9 | 91    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.748 | 0.764 | -2.1  | 86    | 0.00     |
| 95 T | Naphthalene                 | 1.487 | 1.633 | -9.8  | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.793 | 0.813 | -2.5  | 90    | 0.00     |

(#) = Out of Range

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