

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082019\  
 Data File : VD063674.D  
 Acq On : 20 Aug 2019 10:08  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 20 10:32:03 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   | 95    | -0.04    |
| 2 T   | Dichlorodifluoromethane     | 0.605 | 0.531 | 12.2  | 85    | -0.02    |
| 3 P   | Chloromethane               | 0.473 | 0.419 | 11.4  | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.469 | 0.447 | 4.7#  | 89    | -0.03    |
| 5 T   | Bromomethane                | 0.221 | 0.216 | 2.3   | 86    | -0.03    |
| 6 T   | Chloroethane                | 0.215 | 0.205 | 4.7   | 88    | -0.02    |
| 7 T   | Trichlorofluoromethane      | 0.920 | 0.900 | 2.2   | 89    | -0.02    |
| 8 T   | Diethyl Ether               | 0.130 | 0.122 | 6.2   | 89    | -0.03    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.543 | 0.533 | 1.8   | 92    | -0.03    |
| 10 T  | Methyl Iodide               | 0.769 | 0.713 | 7.3   | 84    | -0.03    |
| 11 T  | Tert butyl alcohol          | 0.023 | 0.023 | 0.0   | 92    | -0.03    |
| 12 CM | 1,1-Dichloroethene          | 0.404 | 0.376 | 6.9#  | 83    | -0.03    |
| 13 T  | Acrolein                    | 0.023 | 0.020 | 13.0  | 91    | -0.03    |
| 14 T  | Allyl chloride              | 0.607 | 0.612 | -0.8  | 96    | -0.03    |
| 15 T  | Acrylonitrile               | 0.062 | 0.064 | -3.2  | 95    | -0.04    |
| 16 T  | Acetone                     | 0.109 | 0.124 | -13.8 | 97    | -0.03    |
| 17 T  | Carbon Disulfide            | 1.275 | 1.137 | 10.8  | 85    | -0.03    |
| 18 T  | Methyl Acetate              | 0.206 | 0.185 | 10.2  | 93    | -0.03    |
| 19 T  | Methyl tert-butyl Ether     | 0.808 | 0.894 | -10.6 | 102   | -0.03    |
| 20 T  | Methylene Chloride          | 0.470 | 0.401 | 14.7  | 86    | -0.03    |
| 21 T  | trans-1,2-Dichloroethene    | 0.425 | 0.432 | -1.6  | 91    | -0.04    |
| 22 T  | Diisopropyl ether           | 1.253 | 1.251 | 0.2   | 93    | -0.04    |
| 23 T  | Vinyl Acetate               | 0.729 | 0.746 | -2.3  | 96    | -0.04    |
| 24 P  | 1,1-Dichloroethane          | 0.777 | 0.776 | 0.1   | 94    | -0.04    |
| 25 T  | 2-Butanone                  | 0.107 | 0.120 | -12.1 | 102   | -0.04    |
| 26 T  | 2,2-Dichloropropane         | 0.774 | 0.793 | -2.5  | 96    | -0.04    |
| 27 T  | cis-1,2-Dichloroethene      | 0.465 | 0.465 | 0.0   | 93    | -0.03    |
| 28 T  | Bromochloromethane          | 0.315 | 0.317 | -0.6  | 92    | -0.04    |
| 29    | Tetrahydrofuran             | 0.050 | 0.047 | 6.0   | 87    | -0.04    |
| 30 C  | Chloroform                  | 0.966 | 0.941 | 2.6#  | 93    | -0.04    |
| 31 T  | Cyclohexane                 | 0.483 | 0.422 | 12.6  | 79    | -0.03    |
| 32 T  | 1,1,1-Trichloroethane       | 0.924 | 0.937 | -1.4  | 94    | -0.04    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.534 | 0.546 | -2.2  | 85    | -0.03    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 96    | -0.04    |
| 35 S  | Dibromofluoromethane        | 0.421 | 0.433 | -2.9  | 83    | -0.03    |
| 36 T  | 1,1-Dichloropropene         | 0.442 | 0.443 | -0.2  | 91    | -0.04    |
| 37 T  | Ethyl Acetate               | 0.185 | 0.194 | -4.9  | 96    | -0.04    |
| 38 T  | Carbon Tetrachloride        | 0.666 | 0.720 | -8.1  | 91    | -0.03    |
| 39 T  | Methylcyclohexane           | 0.376 | 0.364 | 3.2   | 84    | -0.03    |
| 40 TM | Benzene                     | 0.973 | 0.962 | 1.1   | 88    | -0.03    |
| 41 T  | Methacrylonitrile           | 0.233 | 0.227 | 2.6   | 87    | -0.04    |
| 42 TM | 1,2-Dichloroethane          | 0.489 | 0.489 | 0.0   | 90    | -0.04    |
| 43 T  | Isopropyl Acetate           | 0.248 | 0.272 | -9.7  | 100   | -0.04    |
| 44 TM | Trichloroethene             | 0.372 | 0.370 | 0.5   | 95    | -0.03    |
| 45 C  | 1,2-Dichloropropane         | 0.227 | 0.238 | -4.8# | 98    | -0.03    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082019\  
 Data File : VD063674.D  
 Acq On : 20 Aug 2019 10:08  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 20 10:32:03 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.193 | 0.187 | 3.1   | 86    | -0.03    |
| 47 T  | Bromodichloromethane        | 0.496 | 0.512 | -3.2  | 96    | -0.03    |
| 48 T  | Methyl methacrylate         | 0.168 | 0.169 | -0.6  | 92    | -0.03    |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.001 | 0.0   | 88    | -0.04    |
| 50 S  | Toluene-d8                  | 0.926 | 0.985 | -6.4  | 83    | -0.03    |
| 51 T  | 4-Methyl-2-Pentanone        | 0.170 | 0.180 | -5.9  | 102   | -0.03    |
| 52 CM | Toluene                     | 0.627 | 0.618 | 1.4#  | 94    | -0.03    |
| 53 T  | t-1,3-Dichloropropene       | 0.405 | 0.438 | -8.1  | 97    | -0.03    |
| 54 T  | cis-1,3-Dichloropropene     | 0.457 | 0.469 | -2.6  | 92    | -0.03    |
| 55 T  | 1,1,2-Trichloroethane       | 0.212 | 0.212 | 0.0   | 94    | -0.03    |
| 56 T  | Ethyl methacrylate          | 0.230 | 0.238 | -3.5  | 92    | -0.03    |
| 57 T  | 1,3-Dichloropropane         | 0.320 | 0.331 | -3.4  | 95    | -0.03    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.121 | 0.145 | -19.8 | 98    | -0.03    |
| 59 T  | 2-Hexanone                  | 0.124 | 0.141 | -13.7 | 98    | -0.03    |
| 60 T  | Dibromochloromethane        | 0.385 | 0.397 | -3.1  | 93    | -0.03    |
| 61 T  | 1,2-Dibromoethane           | 0.256 | 0.263 | -2.7  | 96    | -0.03    |
| 62 S  | 4-Bromofluorobenzene        | 0.420 | 0.396 | 5.7   | 83    | -0.02    |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 92    | -0.03    |
| 64 T  | Tetrachloroethene           | 0.386 | 0.365 | 5.4   | 85    | -0.03    |
| 65 PM | Chlorobenzene               | 0.937 | 0.960 | -2.5  | 93    | -0.02    |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.412 | 0.437 | -6.1  | 96    | -0.03    |
| 67 C  | Ethyl Benzene               | 1.629 | 1.696 | -4.1# | 93    | -0.03    |
| 68 T  | m/p-Xylenes                 | 0.572 | 0.594 | -3.8  | 95    | -0.03    |
| 69 T  | o-Xylene                    | 0.551 | 0.545 | 1.1   | 89    | -0.02    |
| 70 T  | Styrene                     | 0.980 | 0.955 | 2.6   | 90    | -0.02    |
| 71 P  | Bromoform                   | 0.283 | 0.310 | -9.5  | 97    | -0.02    |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 92    | -0.02    |
| 73 T  | Isopropylbenzene            | 3.180 | 3.088 | 2.9   | 85    | -0.02    |
| 74 T  | N-amyl acetate              | 0.798 | 0.862 | -8.0  | 95    | -0.02    |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.528 | 0.535 | -1.3  | 90    | -0.02    |
| 76 T  | 1,2,3-Trichloropropane      | 0.574 | 0.624 | -8.7  | 97    | -0.02    |
| 77 T  | Bromobenzene                | 0.869 | 0.907 | -4.4  | 95    | -0.02    |
| 78 T  | n-propylbenzene             | 3.721 | 3.771 | -1.3  | 93    | -0.03    |
| 79 T  | 2-Chlorotoluene             | 2.145 | 2.273 | -6.0  | 98    | -0.02    |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.779 | 2.810 | -1.1  | 90    | -0.02    |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.154 | 0.155 | -0.6  | 89    | -0.02    |
| 82 T  | 4-Chlorotoluene             | 2.580 | 2.619 | -1.5  | 92    | -0.02    |
| 83 T  | tert-Butylbenzene           | 2.926 | 2.941 | -0.5  | 91    | -0.02    |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.571 | 2.733 | -6.3  | 94    | -0.02    |
| 85 T  | sec-Butylbenzene            | 3.107 | 3.266 | -5.1  | 100   | -0.02    |
| 86 T  | p-Isopropyltoluene          | 2.971 | 3.072 | -3.4  | 90    | -0.02    |
| 87 T  | 1,3-Dichlorobenzene         | 1.572 | 1.494 | 5.0   | 87    | -0.02    |
| 88 T  | 1,4-Dichlorobenzene         | 1.508 | 1.491 | 1.1   | 90    | -0.02    |
| 89 T  | n-Butylbenzene              | 2.712 | 2.860 | -5.5  | 99    | -0.02    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082019\  
Data File : VD063674.D  
Acq On : 20 Aug 2019 10:08  
Operator : JC/SY  
Sample : VSTDCCC050  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
LabSampleId :  
VSTDCCC050

Quant Time: Aug 20 10:32:03 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.747 | 0.784 | -5.0  | 96    | -0.02    |
| 91 T | 1,2-Dichlorobenzene         | 1.334 | 1.312 | 1.6   | 91    | -0.02    |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.099 | 0.100 | -1.0  | 93    | -0.02    |
| 93 T | 1,2,4-Trichlorobenzene      | 0.982 | 1.117 | -13.7 | 98    | -0.02    |
| 94 T | Hexachlorobutadiene         | 0.748 | 0.800 | -7.0  | 94    | -0.02    |
| 95 T | Naphthalene                 | 1.487 | 1.454 | 2.2   | 89    | -0.02    |
| 96 T | 1,2,3-Trichlorobenzene      | 0.793 | 0.853 | -7.6  | 99    | -0.02    |

(#) = Out of Range

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