

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112020\  
 Data File : VD067716.D  
 Acq On : 20 Nov 2020 11:03  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 21 00:47:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 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   | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.457 | 0.416 | 9.0   | 81    | 0.00     |
| 3 P   | Chloromethane               | 0.311 | 0.256 | 17.7  | 75    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.347 | 0.310 | 10.7# | 76    | 0.00     |
| 5 T   | Bromomethane                | 0.281 | 0.268 | 4.6   | 82    | 0.00     |
| 6 T   | Chloroethane                | 0.214 | 0.201 | 6.1   | 76    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 0.899 | 0.953 | -6.0  | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.181 | 0.186 | -2.8  | 87    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.454 | 0.462 | -1.8  | 85    | 0.00     |
| 10 T  | Methyl Iodide               | 0.486 | 0.515 | -6.0  | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.022 | 0.025 | -13.6 | 107   | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.417 | 0.431 | -3.4# | 87    | 0.00     |
| 13 T  | Acrolein                    | 0.016 | 0.016 | 0.0   | 68    | -0.01    |
| 14 T  | Allyl chloride              | 0.447 | 0.441 | 1.3   | 80    | 0.00     |
| 15 T  | Acrylonitrile               | 0.067 | 0.068 | -1.5  | 83    | -0.01    |
| 16 T  | Acetone                     | 0.065 | 0.077 | -18.5 | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.279 | 1.143 | 10.6  | 75    | 0.00     |
| 18 T  | Methyl Acetate              | 0.135 | 0.135 | 0.0   | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.823 | 0.928 | -12.8 | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 0.462 | 0.461 | 0.2   | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.486 | 0.493 | -1.4  | 84    | -0.01    |
| 22 T  | Diisopropyl ether           | 0.870 | 0.894 | -2.8  | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.456 | 0.493 | -8.1  | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.712 | 0.720 | -1.1  | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 0.070 | 0.075 | -7.1  | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.751 | 0.853 | -13.6 | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.505 | 0.543 | -7.5  | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 0.253 | 0.238 | 5.9   | 75    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.042 | 0.043 | -2.4  | 81    | -0.01    |
| 30 C  | Chloroform                  | 0.849 | 0.904 | -6.5# | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 0.634 | 0.599 | 5.5   | 80    | -0.01    |
| 32 T  | 1,1,1-Trichloroethane       | 0.876 | 0.954 | -8.9  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.437 | 0.403 | 7.8   | 83    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 79    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.301 | 0.286 | 5.0   | 79    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.428 | 0.469 | -9.6  | 87    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.111 | 0.124 | -11.7 | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.556 | 0.669 | -20.3 | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.504 | 0.561 | -11.3 | 83    | 0.00     |
| 40 TM | Benzene                     | 1.159 | 1.265 | -9.1  | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.066 | 0.058 | 12.1  | 75    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.358 | 0.401 | -12.0 | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.220 | 0.243 | -10.5 | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.381 | 0.418 | -9.7  | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.251 | 0.263 | -4.8# | 84    | 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.159 | 0.177 | -11.3  | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.433 | 0.487 | -12.5  | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.113 | 0.112 | 0.9    | 74    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0    | 84    | 0.00     |
| 50 S  | Toluene-d8                  | 1.059 | 0.988 | 6.7    | 78    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.105 | 0.117 | -11.4  | 85    | 0.00     |
| 52 CM | Toluene                     | 0.777 | 0.871 | -12.1# | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.371 | 0.428 | -15.4  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.441 | 0.493 | -11.8  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.211 | 0.232 | -10.0  | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.218 | 0.253 | -16.1  | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.339 | 0.376 | -10.9  | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.102 | 0.105 | -2.9   | 77    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.073 | 0.087 | -19.2  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.312 | 0.350 | -12.2  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.212 | 0.225 | -6.1   | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.365 | 0.350 | 4.1    | 80    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 76    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.370 | 0.418 | -13.0  | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 0.963 | 1.094 | -13.6  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.447 | -17.6  | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.648 | 1.934 | -17.4# | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.641 | 0.746 | -16.4  | 87    | 0.00     |
| 69 T  | o-Xylene                    | 0.572 | 0.687 | -20.1  | 90    | 0.00     |
| 70 T  | Styrene                     | 0.998 | 1.168 | -17.0  | 88    | 0.00     |
| 71 P  | Bromoform                   | 0.194 | 0.226 | -16.5  | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 79    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.231 | 3.848 | -19.1  | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 0.425 | 0.475 | -11.8  | 85    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.441 | 0.480 | -8.8   | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.302 | 0.291 | 3.6    | 81    | 0.00     |
| 77 T  | Bromobenzene                | 0.794 | 0.890 | -12.1  | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 3.696 | 4.294 | -16.2  | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.100 | 2.465 | -17.4  | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.760 | 3.312 | -20.0  | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.149 | 0.159 | -6.7   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.252 | 2.619 | -16.3  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.339 | 2.916 | -24.7  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.748 | 3.263 | -18.7  | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.158 | 3.792 | -20.1  | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.050 | 3.648 | -19.6  | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.514 | 1.718 | -13.5  | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.533 | 1.729 | -12.8  | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.634 | 3.152 | -19.7  | 87    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.574 | 0.678 | -18.1  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.311 | 1.494 | -14.0  | 89    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.078 | 0.099 | -26.9# | 102   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.890 | 1.078 | -21.1  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.595 | 0.709 | -19.2  | 94    | 0.00     |
| 95 T | Naphthalene                 | 1.373 | 1.761 | -28.3# | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.762 | 0.913 | -19.8  | 90    | 0.00     |

(#) = Out of Range

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