

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD101620\  
 Data File : VD067301.D  
 Acq On : 16 Oct 2020 17:03  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 17 01:14:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 14 03:30:30 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.454 | 0.365 | 19.6  | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.315 | 0.264 | 16.2  | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.345 | 0.297 | 13.9# | 86    | 0.00     |
| 5 T   | Bromomethane                | 0.267 | 0.225 | 15.7  | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.215 | 0.185 | 14.0  | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.869 | 0.772 | 11.2  | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.199 | 0.182 | 8.5   | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.462 | 0.419 | 9.3   | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 0.426 | 0.361 | 15.3  | 78    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.036 | 0.025 | 30.6# | 97    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.413 | 0.382 | 7.5#  | 92    | 0.00     |
| 13 T  | Acrolein                    | 0.026 | 0.021 | 19.2  | 67    | 0.00     |
| 14 T  | Allyl chloride              | 0.473 | 0.419 | 11.4  | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 0.066 | 0.065 | 1.5   | 100   | 0.01     |
| 16 T  | Acetone                     | 0.070 | 0.065 | 7.1   | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.176 | 1.016 | 13.6  | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 0.160 | 0.151 | 5.6   | 104   | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 0.821 | 0.808 | 1.6   | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 0.529 | 0.429 | 18.9  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.475 | 0.448 | 5.7   | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 0.863 | 0.838 | 2.9   | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.491 | 0.506 | -3.1  | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.739 | 0.688 | 6.9   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.080 | 0.080 | 0.0   | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.762 | 0.703 | 7.7   | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.520 | 0.490 | 5.8   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.252 | 0.253 | -0.4  | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.044 | 0.045 | -2.3  | 99    | 0.00     |
| 30 C  | Chloroform                  | 0.883 | 0.837 | 5.2#  | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 0.577 | 0.503 | 12.8  | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.866 | 0.807 | 6.8   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.501 | 0.502 | -0.2  | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.333 | 0.339 | -1.8  | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.424 | 0.390 | 8.0   | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.125 | 0.122 | 2.4   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.542 | 0.506 | 6.6   | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.443 | 0.419 | 5.4   | 92    | 0.00     |
| 40 TM | Benzene                     | 1.163 | 1.092 | 6.1   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.067 | 0.059 | 11.9  | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.364 | 0.351 | 3.6   | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.247 | 0.239 | 3.2   | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.372 | 0.350 | 5.9   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.269 | 0.254 | 5.6#  | 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              | 0.168 | 0.162 | 3.6  | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.450 | 0.425 | 5.6  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.120 | 0.116 | 3.3  | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0  | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 1.204 | 1.224 | -1.7 | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.123 | 0.122 | 0.8  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.792 | 0.772 | 2.5# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.395 | 0.382 | 3.3  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.462 | 0.453 | 1.9  | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.229 | 0.220 | 3.9  | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.237 | 0.243 | -2.5 | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.364 | 0.357 | 1.9  | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.122 | 0.124 | -1.6 | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.084 | 0.085 | -1.2 | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.334 | 0.322 | 3.6  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.226 | 0.216 | 4.4  | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.419 | 0.437 | -4.3 | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.362 | 0.332 | 8.3  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 0.959 | 0.914 | 4.7  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.381 | 0.367 | 3.7  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.644 | 1.577 | 4.1# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.633 | 0.604 | 4.6  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.586 | 0.563 | 3.9  | 97    | 0.00     |
| 70 T  | Styrene                     | 1.009 | 0.980 | 2.9  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.205 | 0.195 | 4.9  | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.173 | 3.128 | 1.4  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 0.479 | 0.470 | 1.9  | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.486 | 0.462 | 4.9  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.347 | 0.348 | -0.3 | 115   | 0.00     |
| 77 T  | Bromobenzene                | 0.791 | 0.746 | 5.7  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 3.677 | 3.552 | 3.4  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.132 | 2.039 | 4.4  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.758 | 2.683 | 2.7  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.153 | 0.150 | 2.0  | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.263 | 2.152 | 4.9  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.329 | 2.303 | 1.1  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.726 | 2.660 | 2.4  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.196 | 3.042 | 4.8  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.017 | 2.903 | 3.8  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.523 | 1.441 | 5.4  | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.509 | 1.431 | 5.2  | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.654 | 2.566 | 3.3  | 95    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.526 | 0.490 | 6.8  | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.330 | 1.248 | 6.2  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.088 | 0.082 | 6.8  | 104   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.897 | 0.891 | 0.7  | 100   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.557 | 0.543 | 2.5  | 97    | 0.00     |
| 95 T | Naphthalene                 | 1.473 | 1.503 | -2.0 | 101   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.775 | 0.776 | -0.1 | 102   | 0.00     |

(#) = Out of Range

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