

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD081720\  
 Data File : VD066269.D  
 Acq On : 17 Aug 2020 20:27  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 18 08:31:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 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   | 70    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.441 | 0.359 | 18.6  | 64    | 0.00     |
| 3 P   | Chloromethane               | 0.343 | 0.283 | 17.5  | 66    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.303 | 0.281 | 7.3#  | 71    | 0.00     |
| 5 T   | Bromomethane                | 0.201 | 0.201 | 0.0   | 74    | 0.00     |
| 6 T   | Chloroethane                | 0.186 | 0.182 | 2.2   | 75    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.791 | 0.759 | 4.0   | 73    | 0.01     |
| 8 T   | Diethyl Ether               | 0.223 | 0.221 | 0.9   | 72    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.469 | 0.440 | 6.2   | 69    | 0.00     |
| 10 T  | Methyl Iodide               | 0.353 | 0.418 | -18.4 | 81    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.046 | 0.031 | 32.6# | 69    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.443 | 0.409 | 7.7#  | 68    | 0.00     |
| 13 T  | Acrolein                    | 0.036 | 0.027 | 25.0# | 58    | 0.01     |
| 14 T  | Allyl chloride              | 0.671 | 0.632 | 5.8   | 68    | 0.00     |
| 15 T  | Acrylonitrile               | 0.094 | 0.101 | -7.4  | 78    | 0.00     |
| 16 T  | Acetone                     | 0.085 | 0.080 | 5.9   | 65    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.408 | 1.170 | 16.9  | 61    | 0.00     |
| 18 T  | Methyl Acetate              | 0.215 | 0.216 | -0.5  | 78    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.015 | 1.087 | -7.1  | 77    | 0.00     |
| 20 T  | Methylene Chloride          | 0.576 | 0.549 | 4.7   | 79    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.509 | 0.483 | 5.1   | 70    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.327 | 1.342 | -1.1  | 73    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.777 | 0.805 | -3.6  | 73    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.821 | 0.830 | -1.1  | 74    | 0.00     |
| 25 T  | 2-Butanone                  | 0.124 | 0.123 | 0.8   | 73    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.736 | 0.713 | 3.1   | 72    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 0.534 | 0.553 | -3.6  | 75    | 0.00     |
| 28 T  | Bromochloromethane          | 0.288 | 0.314 | -9.0  | 76    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.077 | 0.079 | -2.6  | 72    | 0.00     |
| 30 C  | Chloroform                  | 0.862 | 0.910 | -5.6# | 77    | 0.00     |
| 31 T  | Cyclohexane                 | 0.781 | 0.674 | 13.7  | 66    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.808 | 0.841 | -4.1  | 75    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.446 | 0.518 | -16.1 | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 72    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.317 | 0.357 | -12.6 | 79    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.470 | 0.451 | 4.0   | 70    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.186 | 0.191 | -2.7  | 78    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.524 | 0.536 | -2.3  | 77    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.568 | 0.530 | 6.7   | 68    | 0.00     |
| 40 TM | Benzene                     | 1.303 | 1.287 | 1.2   | 74    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.109 | 0.114 | -4.6  | 79    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.383 | 0.402 | -5.0  | 78    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.367 | 0.384 | -4.6  | 79    | 0.00     |
| 44 TM | Trichloroethene             | 0.393 | 0.396 | -0.8  | 75    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.319 | 0.320 | -0.3# | 75    | 0.00     |

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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              | 0.176 | 0.186 | -5.7  | 76    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.464 | 0.490 | -5.6  | 78    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.187 | 0.179 | 4.3   | 67    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 68    | 0.00     |
| 50 S  | Toluene-d8                  | 1.169 | 1.283 | -9.8  | 76    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.188 | 0.195 | -3.7  | 76    | 0.00     |
| 52 CM | Toluene                     | 0.858 | 0.865 | -0.8# | 73    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.440 | 0.455 | -3.4  | 75    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.516 | 0.526 | -1.9  | 74    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.253 | 0.256 | -1.2  | 76    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.304 | 0.326 | -7.2  | 76    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.420 | 0.431 | -2.6  | 75    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.137 | 0.151 | -10.2 | 78    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.132 | 0.134 | -1.5  | 73    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.349 | 0.365 | -4.6  | 76    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.243 | 0.258 | -6.2  | 78    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.421 | 0.473 | -12.4 | 79    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 73    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.384 | 0.368 | 4.2   | 73    | 0.00     |
| 65 PM | Chlorobenzene               | 1.015 | 1.009 | 0.6   | 75    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.397 | 0.407 | -2.5  | 77    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.759 | 1.806 | -2.7# | 77    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.681 | 0.685 | -0.6  | 74    | 0.00     |
| 69 T  | o-Xylene                    | 0.620 | 0.628 | -1.3  | 75    | 0.00     |
| 70 T  | Styrene                     | 1.086 | 1.134 | -4.4  | 76    | 0.00     |
| 71 P  | Bromoform                   | 0.235 | 0.246 | -4.7  | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 75    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.338 | 3.337 | 0.0   | 75    | 0.00     |
| 74 T  | N-amyl acetate              | 0.735 | 0.738 | -0.4  | 74    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.569 | 0.555 | 2.5   | 78    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.417 | 0.360 | 13.7  | 69    | 0.00     |
| 77 T  | Bromobenzene                | 0.859 | 0.864 | -0.6  | 77    | 0.00     |
| 78 T  | n-propylbenzene             | 3.880 | 3.824 | 1.4   | 75    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.219 | 2.177 | 1.9   | 74    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.791 | 2.810 | -0.7  | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.189 | 0.185 | 2.1   | 74    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.342 | 2.283 | 2.5   | 74    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.455 | 2.423 | 1.3   | 73    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.793 | 2.798 | -0.2  | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.314 | 3.317 | -0.1  | 75    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.108 | 3.132 | -0.8  | 76    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.615 | 1.585 | 1.9   | 76    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.610 | 1.557 | 3.3   | 75    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.785 | 2.781 | 0.1   | 75    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.620 | 0.604 | 2.6  | 76    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.428 | 1.436 | -0.6 | 78    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.098 | 0.100 | -2.0 | 83    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.052 | 1.032 | 1.9  | 74    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.620 | 0.606 | 2.3  | 76    | 0.00     |
| 95 T | Naphthalene                 | 1.715 | 1.799 | -4.9 | 77    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.929 | 0.934 | -0.5 | 76    | 0.00     |

(#) = Out of Range

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