

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051520\  
 Data File : VD065746.D  
 Acq On : 15 May 2020 11:36  
 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: May 15 19:25:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 13 14:28:42 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.328 | 0.332 | -1.2   | 91    | 0.00     |
| 3 P   | Chloromethane               | 0.470 | 0.462 | 1.7    | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.509 | 0.531 | -4.3#  | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.336 | 0.332 | 1.2    | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.330 | 0.344 | -4.2   | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.704 | 0.712 | -1.1   | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 0.202 | 0.202 | 0.0    | 89    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.433 | 0.429 | 0.9    | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.452 | 0.434 | 4.0    | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.047 | 0.028 | 40.4#  | 80    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.410 | 0.409 | 0.2#   | 89    | 0.00     |
| 13 T  | Acrolein                    | 0.026 | 0.024 | 7.7    | 104   | 0.00     |
| 14 T  | Allyl chloride              | 0.709 | 0.681 | 3.9    | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 0.089 | 0.086 | 3.4    | 89    | -0.01    |
| 16 T  | Acetone                     | 0.083 | 0.100 | -20.5# | 110   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.296 | 1.247 | 3.8    | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 0.214 | 0.185 | 13.6   | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.957 | 0.944 | 1.4    | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 0.466 | 0.443 | 4.9    | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.472 | 0.472 | 0.0    | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.351 | 1.349 | 0.1    | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.794 | 0.789 | 0.6    | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.791 | 0.790 | 0.1    | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 0.118 | 0.122 | -3.4   | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.734 | 0.737 | -0.4   | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.518 | 0.510 | 1.5    | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.325 | 0.341 | -4.9   | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.075 | 0.072 | 4.0    | 89    | -0.01    |
| 30 C  | Chloroform                  | 0.799 | 0.811 | -1.5#  | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 0.800 | 0.751 | 6.1    | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.749 | 0.759 | -1.3   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.403 | 0.400 | 0.7    | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.283 | 0.284 | -0.4   | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.434 | 0.421 | 3.0    | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.186 | 0.172 | 7.5    | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.461 | 0.460 | 0.2    | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.556 | 0.537 | 3.4    | 94    | 0.00     |
| 40 TM | Benzene                     | 1.194 | 1.170 | 2.0    | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.102 | 0.090 | 11.8   | 84    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.332 | 0.329 | 0.9    | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.369 | 0.349 | 5.4    | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.357 | 0.346 | 3.1    | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.294 | 0.287 | 2.4#   | 91    | 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              | 0.159 | 0.156 | 1.9  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.416 | 0.409 | 1.7  | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.173 | 0.169 | 2.3  | 88    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0  | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 1.078 | 1.066 | 1.1  | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.176 | 0.170 | 3.4  | 90    | 0.00     |
| 52 CM | Toluene                     | 0.782 | 0.777 | 0.6# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.406 | 0.400 | 1.5  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.483 | 0.482 | 0.2  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.216 | 0.210 | 2.8  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.282 | 0.274 | 2.8  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.376 | 0.362 | 3.7  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.131 | 0.136 | -3.8 | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.120 | 0.123 | -2.5 | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.290 | 0.289 | 0.3  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.216 | 0.210 | 2.8  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.365 | 0.358 | 1.9  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.346 | 0.338 | 2.3  | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 0.942 | 0.933 | 1.0  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.353 | 0.351 | 0.6  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.680 | 1.674 | 0.4# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.642 | 0.641 | 0.2  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.597 | 0.605 | -1.3 | 94    | 0.00     |
| 70 T  | Styrene                     | 1.019 | 1.020 | -0.1 | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.195 | 0.197 | -1.0 | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.357 | 3.327 | 0.9  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 0.779 | 0.744 | 4.5  | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.531 | 0.518 | 2.4  | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.373 | 0.304 | 18.5 | 71    | 0.00     |
| 77 T  | Bromobenzene                | 0.809 | 0.787 | 2.7  | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 3.921 | 3.887 | 0.9  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.170 | 2.136 | 1.6  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.766 | 2.732 | 1.2  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.190 | 0.177 | 6.8  | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.287 | 2.269 | 0.8  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.453 | 2.398 | 2.2  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.728 | 2.696 | 1.2  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.337 | 3.301 | 1.1  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.067 | 3.014 | 1.7  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.518 | 1.494 | 1.6  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.512 | 1.464 | 3.2  | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.868 | 2.845 | 0.8  | 96    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.600 | 0.600 | 0.0  | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.313 | 1.297 | 1.2  | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.089 | 0.085 | 4.5  | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.999 | 0.992 | 0.7  | 96    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.599 | 0.582 | 2.8  | 95    | 0.00     |
| 95 T | Naphthalene                 | 1.661 | 1.605 | 3.4  | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.851 | 0.818 | 3.9  | 93    | 0.00     |

(#) = Out of Range

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