

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD050619\  
 Data File : VD062124.D  
 Acq On : 6 May 2019 11:43  
 Operator : FY/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 07 05:15:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 02 07:55:52 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   | 71    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.446 | 0.417 | 6.5   | 65    | -0.01    |
| 3 P   | Chloromethane               | 0.379 | 0.308 | 18.7  | 63    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.344 | 0.322 | 6.4#  | 70    | 0.00     |
| 5 T   | Bromomethane                | 0.098 | 0.102 | -4.1  | 76    | 0.00     |
| 6 T   | Chloroethane                | 0.124 | 0.124 | 0.0   | 70    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 0.520 | 0.558 | -7.3  | 80    | -0.01    |
| 8 T   | Diethyl Ether               | 0.139 | 0.118 | 15.1  | 64    | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.479 | 0.481 | -0.4  | 75    | -0.01    |
| 10 T  | Methyl Iodide               | 0.598 | 0.655 | -9.5  | 68    | -0.01    |
| 11 T  | Tert butyl alcohol          | 0.022 | 0.023 | -4.5  | 78    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.408 | 0.371 | 9.1#  | 67    | -0.01    |
| 13 T  | Acrolein                    | 0.023 | 0.025 | -8.7  | 90    | -0.01    |
| 14 T  | Allyl chloride              | 0.557 | 0.498 | 10.6  | 68    | -0.01    |
| 15 T  | Acrylonitrile               | 0.068 | 0.061 | 10.3  | 67    | -0.01    |
| 16 T  | Acetone                     | 0.093 | 0.105 | -12.9 | 80    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.178 | 1.022 | 13.2  | 64    | -0.01    |
| 18 T  | Methyl Acetate              | 0.188 | 0.162 | 13.8  | 75    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.809 | 0.765 | 5.4   | 71    | -0.01    |
| 20 T  | Methylene Chloride          | 0.518 | 0.409 | 21.0# | 66    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.468 | 0.423 | 9.6   | 66    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.299 | 1.154 | 11.2  | 67    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.677 | 0.621 | 8.3   | 67    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.785 | 0.729 | 7.1   | 71    | -0.01    |
| 25 T  | 2-Butanone                  | 0.113 | 0.101 | 10.6  | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.685 | 0.686 | -0.1  | 77    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.532 | 0.466 | 12.4  | 68    | 0.00     |
| 28 T  | Bromochloromethane          | 0.300 | 0.305 | -1.7  | 77    | -0.01    |
| 29    | Tetrahydrofuran             | 0.056 | 0.044 | 21.4# | 56    | 0.00     |
| 30 C  | Chloroform                  | 0.892 | 0.808 | 9.4#  | 64    | -0.01    |
| 31 T  | Cyclohexane                 | 0.583 | 0.500 | 14.2  | 59    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.776 | 0.763 | 1.7   | 67    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.391 | 0.445 | -13.8 | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 70    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.346 | 0.402 | -16.2 | 83    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.390 | 0.371 | 4.9   | 66    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.166 | 0.149 | 10.2  | 69    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.494 | 0.501 | -1.4  | 66    | -0.01    |
| 39 T  | Methylcyclohexane           | 0.384 | 0.348 | 9.4   | 64    | 0.00     |
| 40 TM | Benzene                     | 0.964 | 0.871 | 9.6   | 64    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.194 | 0.178 | 8.2   | 62    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.327 | 0.325 | 0.6   | 73    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.243 | 0.209 | 14.0  | 64    | 0.00     |
| 44 TM | Trichloroethene             | 0.374 | 0.354 | 5.3   | 66    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.245 | 0.230 | 6.1#  | 67    | 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 | 0.169 | 4.0   | 68    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.416 | 0.413 | 0.7   | 73    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.138 | 0.132 | 4.3   | 73    | -0.01    |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.001 | 0.0   | 67    | 0.00     |
| 50 S  | Toluene-d8                  | 0.823 | 0.933 | -13.4 | 84    | -0.01    |
| 51 T  | 4-Methyl-2-Pentanone        | 0.148 | 0.147 | 0.7   | 72    | 0.00     |
| 52 CM | Toluene                     | 0.615 | 0.629 | -2.3# | 78    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.349 | 0.350 | -0.3  | 69    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.425 | 0.435 | -2.4  | 74    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.206 | 0.210 | -1.9  | 74    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.229 | 0.220 | 3.9   | 71    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.319 | 0.314 | 1.6   | 74    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.106 | 0.117 | -10.4 | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.111 | 0.114 | -2.7  | 74    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.342 | 0.375 | -9.6  | 79    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.245 | 0.261 | -6.5  | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.330 | 0.383 | -16.1 | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 74    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.357 | 0.335 | 6.2   | 72    | 0.00     |
| 65 PM | Chlorobenzene               | 0.945 | 0.891 | 5.7   | 73    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.401 | 0.399 | 0.5   | 76    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.542 | 1.521 | 1.4#  | 77    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.557 | 0.533 | 4.3   | 77    | 0.00     |
| 69 T  | o-Xylene                    | 0.510 | 0.506 | 0.8   | 79    | 0.00     |
| 70 T  | Styrene                     | 0.881 | 0.868 | 1.5   | 77    | 0.00     |
| 71 P  | Bromoform                   | 0.228 | 0.251 | -10.1 | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.335 | 3.008 | 9.8   | 79    | 0.00     |
| 74 T  | N-amyl acetate              | 0.859 | 0.675 | 21.4# | 68    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.654 | 0.545 | 16.7  | 71    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.635 | 0.581 | 8.5   | 76    | 0.00     |
| 77 T  | Bromobenzene                | 0.957 | 0.829 | 13.4  | 76    | 0.00     |
| 78 T  | n-propylbenzene             | 3.818 | 3.370 | 11.7  | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.313 | 1.966 | 15.0  | 75    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.659 | 2.331 | 12.3  | 78    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.192 | 0.176 | 8.3   | 81    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.547 | 2.119 | 16.8  | 73    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.081 | 2.803 | 9.0   | 77    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.539 | 2.469 | 2.8   | 78    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.329 | 3.072 | 7.7   | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.979 | 2.750 | 7.7   | 75    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.676 | 1.466 | 12.5  | 76    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.567 | 1.490 | 4.9   | 80    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.675 | 2.333 | 12.8  | 75    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.806 | 0.688 | 14.6 | 70    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.382 | 1.228 | 11.1 | 79    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.087 | 0.084 | 3.4  | 81    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.746 | 0.636 | 14.7 | 69    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.552 | 0.491 | 11.1 | 69    | 0.00     |
| 95 T | Naphthalene                 | 1.204 | 1.076 | 10.6 | 76    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.423 | 0.397 | 6.1  | 73    | 0.00     |

(#) = Out of Range

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