

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD031619\  
 Data File : VD061102.D  
 Acq On : 16 Mar 2019 11:01  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 18 04:08:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 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   | 96    | 0.02     |
| 2 T   | Dichlorodifluoromethane     | 0.495 | 0.459 | 7.3   | 90    | -0.01    |
| 3 P   | Chloromethane               | 0.413 | 0.339 | 17.9  | 83    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.381 | 0.366 | 3.9#  | 91    | 0.00     |
| 5 T   | Bromomethane                | 0.073 | 0.078 | -6.8  | 107   | 0.00     |
| 6 T   | Chloroethane                | 0.114 | 0.116 | -1.8  | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.548 | 0.530 | 3.3   | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 0.181 | 0.191 | -5.5  | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.612 | 0.597 | 2.5   | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 0.714 | 0.852 | -19.3 | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.026 | 0.025 | 3.8   | 83    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.502 | 0.486 | 3.2#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 0.038 | 0.030 | 21.1# | 82    | 0.00     |
| 14 T  | Allyl chloride              | 0.803 | 0.782 | 2.6   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.094 | 0.095 | -1.1  | 100   | 0.00     |
| 16 T  | Acetone                     | 0.119 | 0.127 | -6.7  | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.693 | 1.513 | 10.6  | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.234 | 0.247 | -5.6  | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.880 | 0.915 | -4.0  | 98    | 0.02     |
| 20 T  | Methylene Chloride          | 0.636 | 0.509 | 20.0  | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.543 | 0.552 | -1.7  | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.667 | 1.662 | 0.3   | 91    | 0.02     |
| 23 T  | Vinyl Acetate               | 0.856 | 0.825 | 3.6   | 91    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 0.913 | 0.912 | 0.1   | 92    | 0.03     |
| 25 T  | 2-Butanone                  | 0.135 | 0.152 | -12.6 | 100   | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 0.713 | 0.755 | -5.9  | 100   | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 0.576 | 0.625 | -8.5  | 100   | 0.02     |
| 28 T  | Bromochloromethane          | 0.387 | 0.308 | 20.4# | 74    | 0.00     |
| 29    | Tetrahydrofuran             | 0.073 | 0.065 | 11.0  | 79    | 0.02     |
| 30 C  | Chloroform                  | 0.947 | 0.962 | -1.6# | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 0.736 | 0.667 | 9.4   | 80    | 0.02     |
| 32 T  | 1,1,1-Trichloroethane       | 0.818 | 0.799 | 2.3   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.416 | 0.396 | 4.8   | 92    | 0.02     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 93    | 0.02     |
| 35 S  | Dibromofluoromethane        | 0.371 | 0.389 | -4.9  | 94    | 0.02     |
| 36 T  | 1,1-Dichloropropene         | 0.431 | 0.451 | -4.6  | 98    | 0.02     |
| 37 T  | Ethyl Acetate               | 0.202 | 0.198 | 2.0   | 90    | 0.02     |
| 38 T  | Carbon Tetrachloride        | 0.475 | 0.507 | -6.7  | 101   | 0.02     |
| 39 T  | Methylcyclohexane           | 0.447 | 0.486 | -8.7  | 95    | 0.03     |
| 40 TM | Benzene                     | 1.077 | 1.070 | 0.6   | 86    | 0.03     |
| 41 T  | Methacrylonitrile           | 0.233 | 0.225 | 3.4   | 85    | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 0.313 | 0.330 | -5.4  | 91    | 0.02     |
| 43 T  | Isopropyl Acetate           | 0.280 | 0.286 | -2.1  | 88    | 0.02     |
| 44 TM | Trichloroethene             | 0.372 | 0.399 | -7.3  | 93    | 0.02     |
| 45 C  | 1,2-Dichloropropane         | 0.283 | 0.298 | -5.3# | 93    | 0.02     |

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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              | 0.179 | 0.198 | -10.6 | 98    | 0.02     |
| 47 T  | Bromodichloromethane        | 0.405 | 0.434 | -7.2  | 90    | 0.02     |
| 48 T  | Methyl methacrylate         | 0.158 | 0.165 | -4.4  | 91    | 0.02     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 97    | 0.02     |
| 50 S  | Toluene-d8                  | 0.932 | 1.000 | -7.3  | 98    | 0.02     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.172 | 0.185 | -7.6  | 96    | 0.02     |
| 52 CM | Toluene                     | 0.670 | 0.729 | -8.8# | 96    | 0.02     |
| 53 T  | t-1,3-Dichloropropene       | 0.370 | 0.384 | -3.8  | 92    | 0.02     |
| 54 T  | cis-1,3-Dichloropropene     | 0.445 | 0.495 | -11.2 | 103   | 0.02     |
| 55 T  | 1,1,2-Trichloroethane       | 0.223 | 0.237 | -6.3  | 96    | 0.02     |
| 56 T  | Ethyl methacrylate          | 0.233 | 0.247 | -6.0  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.333 | 0.326 | 2.1   | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.124 | 0.132 | -6.5  | 101   | 0.02     |
| 59 T  | 2-Hexanone                  | 0.126 | 0.133 | -5.6  | 92    | 0.02     |
| 60 T  | Dibromochloromethane        | 0.328 | 0.363 | -10.7 | 95    | 0.02     |
| 61 T  | 1,2-Dibromoethane           | 0.259 | 0.257 | 0.8   | 85    | 0.02     |
| 62 S  | 4-Bromofluorobenzene        | 0.362 | 0.346 | 4.4   | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 90    | 0.02     |
| 64 T  | Tetrachloroethene           | 0.338 | 0.343 | -1.5  | 88    | 0.02     |
| 65 PM | Chlorobenzene               | 0.980 | 1.027 | -4.8  | 93    | 0.02     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.349 | 0.377 | -8.0  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.459 | 1.490 | -2.1# | 92    | 0.02     |
| 68 T  | m/p-Xylenes                 | 0.573 | 0.554 | 3.3   | 85    | 0.00     |
| 69 T  | o-Xylene                    | 0.563 | 0.592 | -5.2  | 97    | 0.00     |
| 70 T  | Styrene                     | 0.919 | 0.953 | -3.7  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.225 | 0.228 | -1.3  | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.603 | 3.621 | -0.5  | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 1.015 | 0.984 | 3.1   | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.703 | 0.729 | -3.7  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.719 | 0.730 | -1.5  | 93    | 0.00     |
| 77 T  | Bromobenzene                | 0.920 | 0.994 | -8.0  | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 4.218 | 4.306 | -2.1  | 94    | 0.02     |
| 79 T  | 2-Chlorotoluene             | 2.322 | 2.382 | -2.6  | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.736 | 2.711 | 0.9   | 87    | 0.02     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.212 | 0.211 | 0.5   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.746 | 2.608 | 5.0   | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.994 | 3.248 | -8.5  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.736 | 2.711 | 0.9   | 87    | 0.02     |
| 85 T  | sec-Butylbenzene            | 3.655 | 3.677 | -0.6  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.987 | 3.111 | -4.2  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.643 | 1.757 | -6.9  | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.614 | 1.612 | 0.1   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.869 | 2.902 | -1.2  | 94    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.844 | 0.897 | -6.3 | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.369 | 1.462 | -6.8 | 95    | 0.02     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.085 | 0.089 | -4.7 | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.635 | 0.655 | -3.1 | 90    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.480 | 0.502 | -4.6 | 101   | 0.00     |
| 95 T | Naphthalene                 | 0.965 | 0.971 | -0.6 | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.314 | 0.291 | 7.3  | 97    | 0.00     |

(#) = Out of Range

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