

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD121718\  
 Data File : VD060591.D  
 Acq On : 17 Dec 2018 10:58  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 18 13:01:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 06 01:49:20 2018  
 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    | 101   | 0.01     |
| 2 T   | Dichlorodifluoromethane     | 0.579 | 0.494 | 14.7   | 102   | 0.02     |
| 3 P   | Chloromethane               | 0.514 | 0.504 | 1.9    | 110   | 0.01     |
| 4 C   | Vinyl Chloride              | 0.410 | 0.428 | -4.4#  | 111   | 0.02     |
| 5 T   | Bromomethane                | 0.103 | 0.109 | -5.8   | 93    | 0.01     |
| 6 T   | Chloroethane                | 0.127 | 0.139 | -9.4   | 104   | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.473 | 0.523 | -10.6  | 108   | 0.02     |
| 8 T   | Diethyl Ether               | 0.082 | 0.089 | -8.5   | 105   | 0.02     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.307 | 0.331 | -7.8   | 111   | 0.02     |
| 10 T  | Methyl Iodide               | 0.359 | 0.377 | -5.0   | 102   | 0.02     |
| 11 T  | Tert butyl alcohol          | 0.014 | 0.015 | -7.1   | 92    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.250 | 0.268 | -7.2#  | 110   | 0.02     |
| 13 T  | Acrolein                    | 0.016 | 0.015 | 6.3    | 96    | 0.02     |
| 14 T  | Allyl chloride              | 0.474 | 0.498 | -5.1   | 104   | 0.02     |
| 15 T  | Acrylonitrile               | 0.082 | 0.087 | -6.1   | 102   | 0.02     |
| 16 T  | Acetone                     | 0.057 | 0.066 | -15.8  | 113   | 0.02     |
| 17 T  | Carbon Disulfide            | 0.812 | 0.836 | -3.0   | 106   | 0.02     |
| 18 T  | Methyl Acetate              | 0.135 | 0.139 | -3.0   | 106   | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 0.693 | 0.751 | -8.4   | 103   | 0.02     |
| 20 T  | Methylene Chloride          | 0.620 | 0.560 | 9.7    | 103   | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 0.544 | 0.589 | -8.3   | 106   | 0.02     |
| 22 T  | Diisopropyl ether           | 1.702 | 1.810 | -6.3   | 103   | 0.02     |
| 23 T  | Vinyl Acetate               | 0.843 | 0.908 | -7.7   | 102   | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 0.884 | 0.952 | -7.7   | 105   | 0.02     |
| 25 T  | 2-Butanone                  | 0.112 | 0.128 | -14.3  | 107   | 0.02     |
| 26 T  | 2,2-Dichloropropane         | 0.683 | 0.789 | -15.5  | 116   | 0.03     |
| 27 T  | cis-1,2-Dichloroethene      | 0.553 | 0.611 | -10.5  | 108   | 0.02     |
| 28 T  | Bromochloromethane          | 0.392 | 0.379 | 3.3    | 97    | 0.02     |
| 29    | Tetrahydrofuran             | 0.063 | 0.068 | -7.9   | 102   | 0.02     |
| 30 C  | Chloroform                  | 0.891 | 0.989 | -11.0# | 108   | 0.02     |
| 31 T  | Cyclohexane                 | 0.855 | 0.864 | -1.1   | 108   | 0.03     |
| 32 T  | 1,1,1-Trichloroethane       | 0.732 | 0.816 | -11.5  | 107   | 0.02     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.354 | 0.343 | 3.1    | 95    | 0.02     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 101   | 0.01     |
| 35 S  | Dibromofluoromethane        | 0.367 | 0.364 | 0.8    | 97    | 0.02     |
| 36 T  | 1,1-Dichloropropene         | 0.489 | 0.528 | -8.0   | 107   | 0.02     |
| 37 T  | Ethyl Acetate               | 0.212 | 0.231 | -9.0   | 100   | 0.03     |
| 38 T  | Carbon Tetrachloride        | 0.439 | 0.481 | -9.6   | 107   | 0.02     |
| 39 T  | Methylcyclohexane           | 0.557 | 0.608 | -9.2   | 107   | 0.02     |
| 40 TM | Benzene                     | 1.249 | 1.397 | -11.8  | 109   | 0.02     |
| 41 T  | Methacrylonitrile           | 0.114 | 0.143 | -25.4# | 130   | 0.03     |
| 42 TM | 1,2-Dichloroethane          | 0.318 | 0.345 | -8.5   | 106   | 0.02     |
| 43 T  | Isopropyl Acetate           | 0.262 | 0.287 | -9.5   | 103   | 0.02     |
| 44 TM | Trichloroethene             | 0.373 | 0.423 | -13.4  | 108   | 0.02     |
| 45 C  | 1,2-Dichloropropane         | 0.309 | 0.341 | -10.4# | 106   | 0.01     |

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 Quant Title : SW846 8260  
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 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) |
|-------|-----------------------------|-------|-------|---------|-------|----------|
| 46 T  | Dibromomethane              | 0.178 | 0.194 | -9.0    | 102   | 0.02     |
| 47 T  | Bromodichloromethane        | 0.424 | 0.480 | -13.2   | 107   | 0.02     |
| 48 T  | Methyl methacrylate         | 0.155 | 0.170 | -9.7    | 99    | 0.02     |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.002 | -100.0# | 97    | 0.02     |
| 50 S  | Toluene-d8                  | 1.063 | 1.045 | 1.7     | 94    | 0.02     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.163 | 0.183 | -12.3   | 104   | 0.02     |
| 52 CM | Toluene                     | 0.781 | 0.857 | -9.7#   | 106   | 0.02     |
| 53 T  | t-1,3-Dichloropropene       | 0.348 | 0.402 | -15.5   | 109   | 0.02     |
| 54 T  | cis-1,3-Dichloropropene     | 0.457 | 0.518 | -13.3   | 107   | 0.02     |
| 55 T  | 1,1,2-Trichloroethane       | 0.217 | 0.226 | -4.1    | 102   | 0.01     |
| 56 T  | Ethyl methacrylate          | 0.197 | 0.227 | -15.2   | 103   | 0.02     |
| 57 T  | 1,3-Dichloropropane         | 0.336 | 0.369 | -9.8    | 106   | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.118 | 0.124 | -5.1    | 102   | 0.02     |
| 59 T  | 2-Hexanone                  | 0.114 | 0.136 | -19.3   | 107   | 0.01     |
| 60 T  | Dibromochloromethane        | 0.272 | 0.314 | -15.4   | 106   | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 0.222 | 0.240 | -8.1    | 100   | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 0.380 | 0.365 | 3.9     | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0     | 103   | 0.02     |
| 64 T  | Tetrachloroethene           | 0.443 | 0.484 | -9.3    | 107   | 0.01     |
| 65 PM | Chlorobenzene               | 1.058 | 1.162 | -9.8    | 110   | 0.02     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.341 | 0.376 | -10.3   | 109   | 0.01     |
| 67 C  | Ethyl Benzene               | 1.804 | 1.923 | -6.6#   | 108   | 0.01     |
| 68 T  | m/p-Xylenes                 | 0.667 | 0.703 | -5.4    | 104   | 0.01     |
| 69 T  | o-Xylene                    | 0.636 | 0.676 | -6.3    | 104   | 0.01     |
| 70 T  | Styrene                     | 1.021 | 1.089 | -6.7    | 103   | 0.01     |
| 71 P  | Bromoform                   | 0.227 | 0.257 | -13.2   | 103   | 0.01     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0     | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.538 | 3.634 | -2.7    | 104   | 0.01     |
| 74 T  | N-amyl acetate              | 0.855 | 0.927 | -8.4    | 99    | 0.01     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.566 | 0.610 | -7.8    | 108   | 0.01     |
| 76 T  | 1,2,3-Trichloropropane      | 0.567 | 0.607 | -7.1    | 104   | 0.01     |
| 77 T  | Bromobenzene                | 0.930 | 1.014 | -9.0    | 108   | 0.01     |
| 78 T  | n-propylbenzene             | 4.473 | 4.681 | -4.7    | 107   | 0.01     |
| 79 T  | 2-Chlorotoluene             | 2.427 | 2.574 | -6.1    | 107   | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.704 | 2.817 | -4.2    | 106   | 0.01     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.158 | 0.177 | -12.0   | 103   | 0.01     |
| 82 T  | 4-Chlorotoluene             | 2.726 | 2.792 | -2.4    | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.031 | 3.349 | -10.5   | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.799 | 2.938 | -5.0    | 106   | 0.01     |
| 85 T  | sec-Butylbenzene            | 3.778 | 4.080 | -8.0    | 112   | 0.01     |
| 86 T  | p-Isopropyltoluene          | 2.995 | 3.211 | -7.2    | 109   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.684 | 1.729 | -2.7    | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.652 | 1.724 | -4.4    | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.078 | 3.327 | -8.1    | 112   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.751 | 0.840 | -11.9 | 111   | 0.01     |
| 91 T | 1,2-Dichlorobenzene         | 1.376 | 1.456 | -5.8  | 108   | 0.01     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.069 | 0.076 | -10.1 | 108   | 0.01     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.076 | 1.184 | -10.0 | 109   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.794 | 0.900 | -13.4 | 113   | 0.00     |
| 95 T | Naphthalene                 | 1.280 | 1.424 | -11.2 | 103   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.857 | 0.926 | -8.1  | 108   | 0.00     |

(#) = Out of Range

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