

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122218\  
 Data File : VD060700.D  
 Acq On : 22 Dec 2018 10:50  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 24 02:21:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122018S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 21 17:37:47 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 103   | 0.04     |
| 2 T   | Dichlorodifluoromethane     | 0.639 | 0.656 | -2.7   | 93    | 0.01     |
| 3 P   | Chloromethane               | 0.588 | 0.594 | -1.0   | 103   | 0.01     |
| 4 C   | Vinyl Chloride              | 0.467 | 0.463 | 0.9#   | 98    | 0.01     |
| 5 T   | Bromomethane                | 0.105 | 0.135 | -28.6# | 108   | 0.02     |
| 6 T   | Chloroethane                | 0.139 | 0.167 | -20.1# | 107   | 0.02     |
| 7 T   | Trichlorofluoromethane      | 0.519 | 0.552 | -6.4   | 101   | 0.02     |
| 8 T   | Diethyl Ether               | 0.087 | 0.093 | -6.9   | 105   | 0.03     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.337 | 0.349 | -3.6   | 103   | 0.03     |
| 10 T  | Methyl Iodide               | 0.354 | 0.406 | -14.7  | 105   | 0.03     |
| 11 T  | Tert butyl alcohol          | 0.014 | 0.014 | 0.0    | 96    | 0.03     |
| 12 CM | 1,1-Dichloroethene          | 0.277 | 0.292 | -5.4#  | 106   | 0.03     |
| 13 T  | Acrolein                    | 0.015 | 0.013 | 13.3   | 101   | 0.03     |
| 14 T  | Allyl chloride              | 0.508 | 0.518 | -2.0   | 100   | 0.03     |
| 15 T  | Acrylonitrile               | 0.084 | 0.079 | 6.0    | 93    | 0.03     |
| 16 T  | Acetone                     | 0.060 | 0.066 | -10.0  | 106   | 0.02     |
| 17 T  | Carbon Disulfide            | 0.884 | 0.917 | -3.7   | 100   | 0.03     |
| 18 T  | Methyl Acetate              | 0.150 | 0.152 | -1.3   | 98    | 0.03     |
| 19 T  | Methyl tert-butyl Ether     | 0.702 | 0.701 | 0.1    | 95    | 0.03     |
| 20 T  | Methylene Chloride          | 0.627 | 0.524 | 16.4   | 94    | 0.03     |
| 21 T  | trans-1,2-Dichloroethene    | 0.567 | 0.575 | -1.4   | 99    | 0.04     |
| 22 T  | Diisopropyl ether           | 1.724 | 1.745 | -1.2   | 99    | 0.03     |
| 23 T  | Vinyl Acetate               | 0.834 | 0.812 | 2.6    | 93    | 0.03     |
| 24 P  | 1,1-Dichloroethane          | 0.907 | 0.928 | -2.3   | 100   | 0.03     |
| 25 T  | 2-Butanone                  | 0.115 | 0.115 | 0.0    | 94    | 0.04     |
| 26 T  | 2,2-Dichloropropane         | 0.716 | 0.739 | -3.2   | 101   | 0.04     |
| 27 T  | cis-1,2-Dichloroethene      | 0.575 | 0.585 | -1.7   | 99    | 0.03     |
| 28 T  | Bromochloromethane          | 0.383 | 0.396 | -3.4   | 103   | 0.04     |
| 29    | Tetrahydrofuran             | 0.065 | 0.061 | 6.2    | 91    | 0.03     |
| 30 C  | Chloroform                  | 0.913 | 0.900 | 1.4#   | 97    | 0.04     |
| 31 T  | Cyclohexane                 | 0.873 | 0.847 | 3.0    | 96    | 0.04     |
| 32 T  | 1,1,1-Trichloroethane       | 0.755 | 0.767 | -1.6   | 99    | 0.03     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.346 | 0.301 | 13.0   | 91    | 0.03     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 105   | 0.04     |
| 35 S  | Dibromofluoromethane        | 0.366 | 0.322 | 12.0   | 93    | 0.03     |
| 36 T  | 1,1-Dichloropropene         | 0.515 | 0.516 | -0.2   | 101   | 0.03     |
| 37 T  | Ethyl Acetate               | 0.215 | 0.207 | 3.7    | 96    | 0.04     |
| 38 T  | Carbon Tetrachloride        | 0.454 | 0.461 | -1.5   | 100   | 0.04     |
| 39 T  | Methylcyclohexane           | 0.587 | 0.567 | 3.4    | 95    | 0.03     |
| 40 TM | Benzene                     | 1.330 | 1.331 | -0.1   | 101   | 0.03     |
| 41 T  | Methacrylonitrile           | 0.119 | 0.101 | 15.1   | 81    | 0.03     |
| 42 TM | 1,2-Dichloroethane          | 0.330 | 0.321 | 2.7    | 98    | 0.03     |
| 43 T  | Isopropyl Acetate           | 0.276 | 0.268 | 2.9    | 94    | 0.03     |
| 44 TM | Trichloroethene             | 0.394 | 0.411 | -4.3   | 104   | 0.03     |
| 45 C  | 1,2-Dichloropropane         | 0.326 | 0.324 | 0.6#   | 101   | 0.03     |

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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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.186 | 0.180 | 3.2   | 97    | 0.03     |
| 47 T  | Bromodichloromethane        | 0.441 | 0.448 | -1.6  | 100   | 0.03     |
| 48 T  | Methyl methacrylate         | 0.168 | 0.162 | 3.6   | 93    | 0.03     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.001 | 50.0# | 89    | 0.03     |
| 50 S  | Toluene-d8                  | 1.092 | 0.981 | 10.2  | 95    | 0.03     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.169 | 0.160 | 5.3   | 91    | 0.03     |
| 52 CM | Toluene                     | 0.834 | 0.830 | 0.5#  | 99    | 0.03     |
| 53 T  | t-1,3-Dichloropropene       | 0.368 | 0.367 | 0.3   | 96    | 0.03     |
| 54 T  | cis-1,3-Dichloropropene     | 0.481 | 0.482 | -0.2  | 97    | 0.03     |
| 55 T  | 1,1,2-Trichloroethane       | 0.224 | 0.216 | 3.6   | 97    | 0.03     |
| 56 T  | Ethyl methacrylate          | 0.208 | 0.207 | 0.5   | 91    | 0.03     |
| 57 T  | 1,3-Dichloropropane         | 0.356 | 0.350 | 1.7   | 99    | 0.03     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.123 | 0.113 | 8.1   | 94    | 0.03     |
| 59 T  | 2-Hexanone                  | 0.119 | 0.118 | 0.8   | 95    | 0.02     |
| 60 T  | Dibromochloromethane        | 0.286 | 0.280 | 2.1   | 93    | 0.03     |
| 61 T  | 1,2-Dibromoethane           | 0.233 | 0.227 | 2.6   | 95    | 0.03     |
| 62 S  | 4-Bromofluorobenzene        | 0.382 | 0.342 | 10.5  | 97    | 0.02     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 102   | 0.03     |
| 64 T  | Tetrachloroethene           | 0.453 | 0.487 | -7.5  | 103   | 0.03     |
| 65 PM | Chlorobenzene               | 1.105 | 1.142 | -3.3  | 99    | 0.03     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.355 | 0.376 | -5.9  | 100   | 0.02     |
| 67 C  | Ethyl Benzene               | 1.892 | 1.972 | -4.2# | 100   | 0.02     |
| 68 T  | m/p-Xylenes                 | 0.691 | 0.726 | -5.1  | 101   | 0.02     |
| 69 T  | o-Xylene                    | 0.656 | 0.698 | -6.4  | 100   | 0.02     |
| 70 T  | Styrene                     | 1.056 | 1.124 | -6.4  | 100   | 0.02     |
| 71 P  | Bromoform                   | 0.234 | 0.244 | -4.3  | 96    | 0.02     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 103   | 0.01     |
| 73 T  | Isopropylbenzene            | 3.560 | 3.773 | -6.0  | 101   | 0.02     |
| 74 T  | N-amyl acetate              | 0.840 | 0.870 | -3.6  | 99    | 0.02     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.577 | 0.573 | 0.7   | 93    | 0.02     |
| 76 T  | 1,2,3-Trichloropropane      | 0.569 | 0.568 | 0.2   | 95    | 0.02     |
| 77 T  | Bromobenzene                | 0.940 | 0.995 | -5.9  | 100   | 0.02     |
| 78 T  | n-propylbenzene             | 4.551 | 4.703 | -3.3  | 99    | 0.02     |
| 79 T  | 2-Chlorotoluene             | 2.438 | 2.545 | -4.4  | 99    | 0.02     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.749 | 2.955 | -7.5  | 103   | 0.02     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.157 | 0.168 | -7.0  | 96    | 0.02     |
| 82 T  | 4-Chlorotoluene             | 2.763 | 2.853 | -3.3  | 101   | 0.02     |
| 83 T  | tert-Butylbenzene           | 3.128 | 3.308 | -5.8  | 101   | 0.01     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.831 | 2.938 | -3.8  | 99    | 0.02     |
| 85 T  | sec-Butylbenzene            | 3.815 | 4.057 | -6.3  | 100   | 0.02     |
| 86 T  | p-Isopropyltoluene          | 3.080 | 3.253 | -5.6  | 102   | 0.01     |
| 87 T  | 1,3-Dichlorobenzene         | 1.725 | 1.696 | 1.7   | 94    | 0.01     |
| 88 T  | 1,4-Dichlorobenzene         | 1.700 | 1.720 | -1.2  | 96    | 0.01     |
| 89 T  | n-Butylbenzene              | 3.147 | 3.310 | -5.2  | 102   | 0.01     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.757 | 0.827 | -9.2 | 102   | 0.02     |
| 91 T | 1,2-Dichlorobenzene         | 1.384 | 1.438 | -3.9 | 100   | 0.02     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.068 | 0.070 | -2.9 | 95    | 0.02     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.101 | 1.134 | -3.0 | 95    | 0.01     |
| 94 T | Hexachlorobutadiene         | 0.814 | 0.836 | -2.7 | 98    | 0.01     |
| 95 T | Naphthalene                 | 1.309 | 1.289 | 1.5  | 89    | 0.01     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.861 | 0.902 | -4.8 | 96    | 0.01     |

(#) = Out of Range

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