

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\  
 Data File : VD058339.D  
 Acq On : 23 Jun 2018 14:03  
 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: Jun 25 01:05:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061918S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 20 05:52:56 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     | 108   | 0.02     |
| 2 T   | Dichlorodifluoromethane     | 0.511 | 0.500 | 2.2     | 110   | 0.02     |
| 3 P   | Chloromethane               | 0.248 | 0.208 | 16.1    | 101   | 0.02     |
| 4 C   | Vinyl Chloride              | 0.262 | 0.231 | 11.8#   | 98    | 0.02     |
| 5 T   | Bromomethane                | 0.095 | 0.094 | 1.1     | 111   | 0.03     |
| 6 T   | Chloroethane                | 0.095 | 0.114 | -20.0#  | 123   | 0.02     |
| 7 T   | Trichlorofluoromethane      | 0.359 | 0.418 | -16.4   | 131   | 0.03     |
| 8 T   | Diethyl Ether               | 0.076 | 0.072 | 5.3     | 99    | 0.02     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.228 | 0.257 | -12.7   | 123   | 0.03     |
| 10 T  | Methyl Iodide               | 0.260 | 0.258 | 0.8     | 102   | 0.03     |
| 11 T  | Tert butyl alcohol          | 0.017 | 0.016 | 5.9     | 101   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.172 | 0.177 | -2.9#   | 112   | 0.03     |
| 13 T  | Acrolein                    | 0.010 | 0.005 | 50.0#   | 79    | 0.02     |
| 14 T  | Allyl chloride              | 0.400 | 0.385 | 3.8     | 102   | 0.03     |
| 15 T  | Acrylonitrile               | 0.044 | 0.078 | -77.3#  | 179#  | 0.02     |
| 16 T  | Acetone                     | 0.069 | 0.075 | -8.7    | 110   | 0.02     |
| 17 T  | Carbon Disulfide            | 0.584 | 0.494 | 15.4    | 94    | 0.02     |
| 18 T  | Methyl Acetate              | 0.147 | 0.135 | 8.2     | 97    | 0.02     |
| 19 T  | Methyl tert-butyl Ether     | 0.456 | 0.830 | -82.0#  | 189#  | 0.02     |
| 20 T  | Methylene Chloride          | 0.214 | 0.178 | 16.8    | 103   | 0.03     |
| 21 T  | trans-1,2-Dichloroethene    | 0.188 | 0.393 | -109.0# | 238#  | 0.02     |
| 22 T  | Diisopropyl ether           | 1.588 | 1.457 | 8.2     | 99    | 0.02     |
| 23 T  | Vinyl Acetate               | 0.851 | 0.811 | 4.7     | 96    | 0.03     |
| 24 P  | 1,1-Dichloroethane          | 0.855 | 0.865 | -1.2    | 111   | 0.03     |
| 25 T  | 2-Butanone                  | 0.151 | 0.140 | 7.3     | 95    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 0.716 | 0.741 | -3.5    | 114   | 0.03     |
| 27 T  | cis-1,2-Dichloroethene      | 0.469 | 0.473 | -0.9    | 111   | 0.02     |
| 28 T  | Bromochloromethane          | 0.383 | 0.405 | -5.7    | 108   | 0.02     |
| 29    | Tetrahydrofuran             | 0.080 | 0.072 | 10.0    | 88    | 0.02     |
| 30 C  | Chloroform                  | 0.903 | 0.922 | -2.1#   | 110   | 0.02     |
| 31 T  | Cyclohexane                 | 0.733 | 0.641 | 12.6    | 102   | 0.02     |
| 32 T  | 1,1,1-Trichloroethane       | 0.746 | 0.758 | -1.6    | 108   | 0.02     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.505 | 0.535 | -5.9    | 104   | 0.02     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0     | 105   | 0.01     |
| 35 S  | Dibromofluoromethane        | 0.407 | 0.446 | -9.6    | 108   | 0.02     |
| 36 T  | 1,1-Dichloropropene         | 0.495 | 0.507 | -2.4    | 111   | 0.02     |
| 37 T  | Ethyl Acetate               | 0.282 | 0.272 | 3.5     | 94    | 0.03     |
| 38 T  | Carbon Tetrachloride        | 0.491 | 0.506 | -3.1    | 108   | 0.03     |
| 39 T  | Methylcyclohexane           | 0.482 | 0.462 | 4.1     | 104   | 0.02     |
| 40 TM | Benzene                     | 1.178 | 1.196 | -1.5    | 111   | 0.02     |
| 41 T  | Methacrylonitrile           | 0.136 | 0.142 | -4.4    | 109   | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 0.475 | 0.482 | -1.5    | 105   | 0.02     |
| 43 T  | Isopropyl Acetate           | 0.376 | 0.341 | 9.3     | 86    | 0.01     |
| 44 TM | Trichloroethene             | 0.354 | 0.373 | -5.4    | 114   | 0.02     |
| 45 C  | 1,2-Dichloropropane         | 0.317 | 0.333 | -5.0#   | 108   | 0.01     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Jun 20 05:52:56 2018  
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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              | 0.217 | 0.227 | -4.6  | 104   | 0.02     |
| 47 T  | Bromodichloromethane        | 0.494 | 0.523 | -5.9  | 110   | 0.01     |
| 48 T  | Methyl methacrylate         | 0.228 | 0.212 | 7.0   | 91    | 0.01     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 89    | 0.02     |
| 50 S  | Toluene-d8                  | 0.985 | 1.026 | -4.2  | 101   | 0.01     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.245 | 0.234 | 4.5   | 93    | 0.01     |
| 52 CM | Toluene                     | 0.671 | 0.676 | -0.7# | 110   | 0.01     |
| 53 T  | t-1,3-Dichloropropene       | 0.429 | 0.466 | -8.6  | 110   | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 0.503 | 0.518 | -3.0  | 102   | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 0.237 | 0.238 | -0.4  | 104   | 0.01     |
| 56 T  | Ethyl methacrylate          | 0.284 | 0.285 | -0.4  | 97    | 0.01     |
| 57 T  | 1,3-Dichloropropane         | 0.400 | 0.418 | -4.5  | 110   | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.141 | 0.138 | 2.1   | 96    | 0.01     |
| 59 T  | 2-Hexanone                  | 0.177 | 0.178 | -0.6  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.322 | 0.345 | -7.1  | 106   | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 0.260 | 0.266 | -2.3  | 101   | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 0.402 | 0.420 | -4.5  | 105   | 0.01     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 105   | 0.01     |
| 64 T  | Tetrachloroethene           | 0.421 | 0.417 | 1.0   | 106   | 0.01     |
| 65 PM | Chlorobenzene               | 0.935 | 0.924 | 1.2   | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.361 | 0.380 | -5.3  | 109   | 0.01     |
| 67 C  | Ethyl Benzene               | 1.651 | 1.657 | -0.4# | 111   | 0.01     |
| 68 T  | m/p-Xylenes                 | 0.551 | 0.530 | 3.8   | 109   | 0.01     |
| 69 T  | o-Xylene                    | 0.526 | 0.533 | -1.3  | 114   | 0.00     |
| 70 T  | Styrene                     | 0.897 | 0.879 | 2.0   | 108   | 0.00     |
| 71 P  | Bromoform                   | 0.288 | 0.295 | -2.4  | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 2.991 | 2.945 | 1.5   | 106   | 0.01     |
| 74 T  | N-amyl acetate              | 1.156 | 1.164 | -0.7  | 94    | 0.01     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.696 | 0.739 | -6.2  | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.730 | 0.761 | -4.2  | 101   | 0.00     |
| 77 T  | Bromobenzene                | 0.896 | 0.967 | -7.9  | 112   | 0.00     |
| 78 T  | n-propylbenzene             | 3.862 | 4.008 | -3.8  | 110   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.210 | 2.371 | -7.3  | 111   | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.333 | 2.327 | 0.3   | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.178 | 0.183 | -2.8  | 90    | 0.01     |
| 82 T  | 4-Chlorotoluene             | 2.493 | 2.524 | -1.2  | 109   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.682 | 2.733 | -1.9  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.536 | 2.624 | -3.5  | 109   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.144 | 3.118 | 0.8   | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.547 | 2.613 | -2.6  | 110   | 0.01     |
| 87 T  | 1,3-Dichlorobenzene         | 1.557 | 1.616 | -3.8  | 110   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.520 | 1.536 | -1.1  | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.677 | 2.591 | 3.2   | 105   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.661 | 0.721 | -9.1 | 107   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.325 | 1.215 | 8.3  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.111 | 0.119 | -7.2 | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.267 | 1.254 | 1.0  | 100   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.991 | 0.940 | 5.1  | 99    | 0.00     |
| 95 T | Naphthalene                 | 1.669 | 1.626 | 2.6  | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.109 | 1.062 | 4.2  | 96    | 0.00     |

(#) = Out of Range

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