

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\  
 Data File : VD058247.D  
 Acq On : 21 Jun 2018 12:20  
 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 22 06:13:32 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    | 102   | 0.02     |
| 2 T   | Dichlorodifluoromethane     | 0.511 | 0.498 | 2.5    | 104   | 0.00     |
| 3 P   | Chloromethane               | 0.248 | 0.250 | -0.8   | 116   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.262 | 0.258 | 1.5#   | 104   | 0.00     |
| 5 T   | Bromomethane                | 0.095 | 0.101 | -6.3   | 113   | 0.00     |
| 6 T   | Chloroethane                | 0.095 | 0.123 | -29.5# | 126   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.359 | 0.408 | -13.6  | 122   | 0.02     |
| 8 T   | Diethyl Ether               | 0.076 | 0.078 | -2.6   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.228 | 0.243 | -6.6   | 111   | 0.00     |
| 10 T  | Methyl Iodide               | 0.260 | 0.276 | -6.2   | 104   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.017 | 0.017 | 0.0    | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.172 | 0.186 | -8.1#  | 112   | 0.02     |
| 13 T  | Acrolein                    | 0.010 | 0.006 | 40.0#  | 95    | 0.00     |
| 14 T  | Allyl chloride              | 0.400 | 0.428 | -7.0   | 107   | 0.02     |
| 15 T  | Acrylonitrile               | 0.044 | 0.050 | -13.6  | 110   | 0.00     |
| 16 T  | Acetone                     | 0.069 | 0.079 | -14.5  | 110   | 0.00     |
| 17 T  | Carbon Disulfide            | 0.584 | 0.540 | 7.5    | 98    | 0.00     |
| 18 T  | Methyl Acetate              | 0.147 | 0.133 | 9.5    | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.456 | 0.755 | -65.6# | 163#  | 0.00     |
| 20 T  | Methylene Chloride          | 0.214 | 0.198 | 7.5    | 110   | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 0.188 | 0.278 | -47.9# | 160#  | 0.03     |
| 22 T  | Diisopropyl ether           | 1.588 | 1.549 | 2.5    | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.851 | 0.865 | -1.6   | 97    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 0.855 | 0.876 | -2.5   | 106   | 0.02     |
| 25 T  | 2-Butanone                  | 0.151 | 0.148 | 2.0    | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.716 | 0.770 | -7.5   | 113   | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 0.469 | 0.481 | -2.6   | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 0.383 | 0.402 | -5.0   | 102   | 0.00     |
| 29    | Tetrahydrofuran             | 0.080 | 0.075 | 6.3    | 87    | 0.00     |
| 30 C  | Chloroform                  | 0.903 | 0.941 | -4.2#  | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 0.733 | 0.662 | 9.7    | 100   | 0.02     |
| 32 T  | 1,1,1-Trichloroethane       | 0.746 | 0.769 | -3.1   | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.505 | 0.545 | -7.9   | 101   | 0.02     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.407 | 0.450 | -10.6  | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.495 | 0.527 | -6.5   | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.282 | 0.291 | -3.2   | 93    | 0.02     |
| 38 T  | Carbon Tetrachloride        | 0.491 | 0.539 | -9.8   | 107   | 0.02     |
| 39 T  | Methylcyclohexane           | 0.482 | 0.521 | -8.1   | 108   | 0.00     |
| 40 TM | Benzene                     | 1.178 | 1.272 | -8.0   | 109   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.136 | 0.143 | -5.1   | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.475 | 0.495 | -4.2   | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.376 | 0.375 | 0.3    | 88    | 0.00     |
| 44 TM | Trichloroethene             | 0.354 | 0.382 | -7.9   | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.317 | 0.347 | -9.5#  | 104   | 0.00     |

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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              | 0.217 | 0.225 | -3.7  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.494 | 0.537 | -8.7  | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.228 | 0.218 | 4.4   | 87    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 0.985 | 1.139 | -15.6 | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.245 | 0.246 | -0.4  | 90    | 0.00     |
| 52 CM | Toluene                     | 0.671 | 0.698 | -4.0# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.429 | 0.468 | -9.1  | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.503 | 0.567 | -12.7 | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.237 | 0.248 | -4.6  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.284 | 0.296 | -4.2  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.400 | 0.422 | -5.5  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.141 | 0.151 | -7.1  | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.177 | 0.189 | -6.8  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.322 | 0.356 | -10.6 | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.260 | 0.272 | -4.6  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.402 | 0.442 | -10.0 | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.421 | 0.416 | 1.2   | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 0.935 | 0.944 | -1.0  | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.361 | 0.370 | -2.5  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.651 | 1.642 | 0.5#  | 108   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.551 | 0.537 | 2.5   | 108   | 0.00     |
| 69 T  | o-Xylene                    | 0.526 | 0.524 | 0.4   | 110   | 0.00     |
| 70 T  | Styrene                     | 0.897 | 0.873 | 2.7   | 105   | 0.00     |
| 71 P  | Bromoform                   | 0.288 | 0.293 | -1.7  | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 2.991 | 3.025 | -1.1  | 109   | 0.00     |
| 74 T  | N-amyl acetate              | 1.156 | 1.127 | 2.5   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.696 | 0.679 | 2.4   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.730 | 0.674 | 7.7   | 90    | 0.00     |
| 77 T  | Bromobenzene                | 0.896 | 0.920 | -2.7  | 107   | 0.00     |
| 78 T  | n-propylbenzene             | 3.862 | 3.904 | -1.1  | 108   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.210 | 2.240 | -1.4  | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.333 | 2.356 | -1.0  | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.178 | 0.188 | -5.6  | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.493 | 2.501 | -0.3  | 108   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.682 | 2.623 | 2.2   | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.536 | 2.426 | 4.3   | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.144 | 3.213 | -2.2  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.547 | 2.566 | -0.7  | 108   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.557 | 1.522 | 2.2   | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.520 | 1.462 | 3.8   | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.677 | 2.682 | -0.2  | 109   | 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 | 0.711 | -7.6 | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.325 | 1.248 | 5.8  | 101   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.111 | 0.107 | 3.6  | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.267 | 1.245 | 1.7  | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.991 | 0.960 | 3.1  | 101   | 0.00     |
| 95 T | Naphthalene                 | 1.669 | 1.604 | 3.9  | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.109 | 1.073 | 3.2  | 98    | 0.00     |

(#) = Out of Range

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