

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
 Data File : VD069880.D  
 Acq On : 28 Jul 2021 10:32  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 28 13:11:12 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 04:51:13 2021  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.526 | 0.454 | 13.7  | 97    | 0.00     |
| 3 P   | Chloromethane               | 0.763 | 0.634 | 16.9  | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.803 | 0.711 | 11.5# | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.526 | 0.460 | 12.5  | 101   | 0.00     |
| 6 T   | Chloroethane                | 0.520 | 0.464 | 10.8  | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.991 | 0.925 | 6.7   | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 0.279 | 0.254 | 9.0   | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.630 | 0.586 | 7.0   | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 0.550 | 0.534 | 2.9   | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.030 | 0.026 | 13.3  | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.572 | 0.535 | 6.5#  | 98    | 0.00     |
| 13 T  | Acrolein                    | 0.042 | 0.040 | 4.8   | 105   | 0.00     |
| 14 T  | Allyl chloride              | 0.839 | 0.787 | 6.2   | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 0.131 | 0.124 | 5.3   | 101   | 0.00     |
| 16 T  | Acetone                     | 0.104 | 0.117 | -12.5 | 113   | -0.01    |
| 17 T  | Carbon Disulfide            | 2.045 | 1.837 | 10.2  | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 0.301 | 0.268 | 11.0  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.185 | 1.152 | 2.8   | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 0.946 | 0.704 | 25.6# | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.674 | 0.639 | 5.2   | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.823 | 1.790 | 1.8   | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.873 | 0.887 | -1.6  | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.259 | 1.164 | 7.5   | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 0.141 | 0.143 | -1.4  | 104   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.957 | 0.951 | 0.6   | 105   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.719 | 0.689 | 4.2   | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 0.478 | 0.476 | 0.4   | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.091 | 0.091 | 0.0   | 101   | 0.00     |
| 30 C  | Chloroform                  | 1.266 | 1.165 | 8.0#  | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 1.124 | 1.058 | 5.9   | 101   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.048 | 0.996 | 5.0   | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.575 | 0.501 | 12.9  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.315 | 0.296 | 6.0   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.540 | 0.540 | 0.0   | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.196 | 0.191 | 2.6   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.493 | 0.507 | -2.8  | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.618 | 0.644 | -4.2  | 100   | 0.00     |
| 40 TM | Benzene                     | 1.563 | 1.527 | 2.3   | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.103 | 0.104 | -1.0  | 106   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.413 | 0.397 | 3.9   | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.352 | 0.355 | -0.9  | 102   | 0.00     |
| 44 TM | Trichloroethene             | 0.385 | 0.373 | 3.1   | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.411 | 0.401 | 2.4#  | 101   | 0.00     |
| 46 T  | Dibromomethane              | 0.202 | 0.192 | 5.0   | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.524 | 0.508 | 3.1   | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.169 | 0.172 | -1.8  | 97    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_D  
 LabSampleId :  
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 106   | 0.00     |
| 50 S  | Toluene-d8                  | 1.215 | 1.156 | 4.9   | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.183 | 0.195 | -6.6  | 104   | 0.00     |
| 52 CM | Toluene                     | 0.948 | 0.974 | -2.7# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.440 | 0.447 | -1.6  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.533 | 0.530 | 0.6   | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.285 | 0.282 | 1.1   | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.312 | 0.335 | -7.4  | 104   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.482 | 0.480 | 0.4   | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.134 | 0.161 | -20.1 | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.121 | 0.140 | -15.7 | 110   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.323 | 0.320 | 0.9   | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.257 | 0.254 | 1.2   | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.406 | 0.392 | 3.4   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.319 | 0.312 | 2.2   | 98    | 0.00     |
| 65 PM | Chlorobenzene               | 1.036 | 1.036 | 0.0   | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.373 | 0.372 | 0.3   | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.824 | 1.913 | -4.9# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.707 | 0.753 | -6.5  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.643 | 0.679 | -5.6  | 102   | 0.00     |
| 70 T  | Styrene                     | 1.114 | 1.189 | -6.7  | 100   | 0.00     |
| 71 P  | Bromoform                   | 0.181 | 0.183 | -1.1  | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.593 | 3.778 | -5.1  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 0.739 | 0.765 | -3.5  | 103   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.717 | 0.703 | 2.0   | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.531 | 0.484 | 8.9   | 104   | 0.00     |
| 77 T  | Bromobenzene                | 0.809 | 0.784 | 3.1   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 4.614 | 4.912 | -6.5  | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.680 | 2.719 | -1.5  | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.073 | 3.238 | -5.4  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.175 | 0.194 | -10.9 | 110   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.802 | 2.857 | -2.0  | 101   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.499 | 2.606 | -4.3  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.032 | 3.185 | -5.0  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.950 | 4.206 | -6.5  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.209 | 3.429 | -6.9  | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.699 | 1.657 | 2.5   | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.693 | 1.629 | 3.8   | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.167 | 3.370 | -6.4  | 103   | 0.00     |
| 90 T  | Hexachloroethane            | 0.680 | 0.662 | 2.6   | 102   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.466 | 1.442 | 1.6   | 102   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.103 | 0.102 | 1.0   | 103   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.791 | 0.802 | -1.4  | 103   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.484 | 0.492 | -1.7  | 103   | 0.00     |
| 95 T  | Naphthalene                 | 1.412 | 1.477 | -4.6  | 103   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.684 | 0.702 | -2.6 | 103   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6