

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW111821\  
 Data File : VW020929.D  
 Acq On : 18 Nov 2021 16:43  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 19 05:00:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W111721S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 19 04:59:01 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    | 109   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.091 | 0.081 | 11.0   | 79    | 0.00     |
| 3 P   | Chloromethane               | 0.288 | 0.255 | 11.5   | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.507 | 0.497 | 2.0#   | 99    | 0.00     |
| 5 T   | Bromomethane                | 0.326 | 0.379 | -16.3  | 116   | 0.01     |
| 6 T   | Chloroethane                | 0.195 | 0.231 | -18.5  | 116   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.210 | 0.277 | -31.9# | 134   | 0.00     |
| 8 T   | Diethyl Ether               | 0.221 | 0.217 | 1.8    | 104   | 0.01     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.434 | 0.449 | -3.5   | 109   | 0.00     |
| 10 T  | Methyl Iodide               | 0.654 | 0.719 | -9.9   | 111   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.041 | 0.027 | 34.1#  | 73    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.425 | 0.435 | -2.4#  | 109   | 0.00     |
| 13 T  | Acrolein                    | 0.007 | 0.007 | 0.0    | 123   | 0.01     |
| 14 T  | Allyl chloride              | 0.610 | 0.611 | -0.2   | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 0.096 | 0.085 | 11.5   | 91    | 0.00     |
| 16 T  | Acetone                     | 0.096 | 0.079 | 17.7   | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.168 | 1.208 | -3.4   | 105   | 0.00     |
| 18 T  | Methyl Acetate              | 0.336 | 0.283 | 15.8   | 88    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.732 | 0.733 | -0.1   | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 0.538 | 0.475 | 11.7   | 105   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 0.484 | 0.502 | -3.7   | 108   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.252 | 1.235 | 1.4    | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.733 | 0.690 | 5.9    | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.796 | 0.808 | -1.5   | 105   | 0.00     |
| 25 T  | 2-Butanone                  | 0.137 | 0.112 | 18.2   | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.565 | 0.566 | -0.2   | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.540 | 0.547 | -1.3   | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 0.337 | 0.319 | 5.3    | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.083 | 0.070 | 15.7   | 87    | 0.00     |
| 30 C  | Chloroform                  | 0.876 | 0.886 | -1.1#  | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 0.773 | 0.742 | 4.0    | 108   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.740 | 0.792 | -7.0   | 112   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.463 | 0.425 | 8.2    | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 108   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.313 | 0.3    | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.449 | 0.471 | -4.9   | 108   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.205 | 0.175 | 14.6   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.478 | 0.500 | -4.6   | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.564 | 0.586 | -3.9   | 107   | 0.00     |
| 40 TM | Benzene                     | 1.281 | 1.297 | -1.2   | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.109 | 0.103 | 5.5    | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.389 | 0.385 | 1.0    | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.402 | 0.365 | 9.2    | 91    | 0.00     |
| 44 TM | Trichloroethene             | 0.374 | 0.393 | -5.1   | 108   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.295 | 0.300 | -1.7#  | 103   | 0.00     |
| 46 T  | Dibromomethane              | 0.187 | 0.186 | 0.5    | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.442 | 0.447 | -1.1   | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.179 | 0.171 | 4.5    | 98    | 0.00     |

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 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

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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                 | 0.003 | 0.002 | 33.3# | 76    | 0.00     |
| 50 S  | Toluene-d8                  | 1.150 | 1.138 | 1.0   | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.205 | 0.177 | 13.7  | 89    | 0.00     |
| 52 CM | Toluene                     | 0.823 | 0.859 | -4.4# | 106   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.439 | 0.436 | 0.7   | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.497 | 0.505 | -1.6  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.251 | 0.242 | 3.6   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.319 | 0.303 | 5.0   | 95    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.422 | 0.411 | 2.6   | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.161 | 0.149 | 7.5   | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.142 | 0.122 | 14.1  | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.316 | 0.307 | 2.8   | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.249 | 0.241 | 3.2   | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.429 | 0.415 | 3.3   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.371 | 0.376 | -1.3  | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 1.005 | 1.019 | -1.4  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.375 | -0.3  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.764 | 1.820 | -3.2# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.713 | 0.727 | -2.0  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.669 | 0.699 | -4.5  | 106   | 0.00     |
| 70 T  | Styrene                     | 1.123 | 1.160 | -3.3  | 103   | 0.00     |
| 71 P  | Bromoform                   | 0.216 | 0.213 | 1.4   | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.417 | 3.688 | -7.9  | 109   | 0.00     |
| 74 T  | N-amyl acetate              | 0.814 | 0.756 | 7.1   | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.596 | 0.584 | 2.0   | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.449 | 0.376 | 16.3  | 81    | 0.00     |
| 77 T  | Bromobenzene                | 0.830 | 0.886 | -6.7  | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 4.024 | 4.420 | -9.8  | 110   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.326 | 2.493 | -7.2  | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.930 | 3.161 | -7.9  | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.191 | 0.180 | 5.8   | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.467 | 2.605 | -5.6  | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.619 | 2.779 | -6.1  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.893 | 3.128 | -8.1  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.769 | 4.092 | -8.6  | 107   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.249 | 3.497 | -7.6  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.682 | 1.803 | -7.2  | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.690 | 1.787 | -5.7  | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.917 | 3.112 | -6.7  | 102   | 0.00     |
| 90 T  | Hexachloroethane            | 0.612 | 0.665 | -8.7  | 109   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.478 | 1.558 | -5.4  | 107   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.105 | 0.097 | 7.6   | 87    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.053 | 1.054 | -0.1  | 96    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.597 | 0.587 | 1.7   | 93    | 0.00     |
| 95 T  | Naphthalene                 | 1.952 | 1.866 | 4.4   | 90    | 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 | 0.928 | 0.929 | -0.1 | 94    | 0.00     |

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