

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042222\  
 Data File : VY008468.D  
 Acq On : 22 Apr 2022 16:34  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 23 01:53:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042122S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 21 14:28:40 2022  
 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   | 111   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.454 | 0.426 | 6.2   | 104   | 0.00     |
| 3 P   | Chloromethane               | 0.714 | 0.755 | -5.7  | 111   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.928 | 1.019 | -9.8# | 114   | 0.00     |
| 5 T   | Bromomethane                | 0.863 | 0.864 | -0.1  | 114   | 0.00     |
| 6 T   | Chloroethane                | 0.618 | 0.671 | -8.6  | 115   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.962 | 0.958 | 0.4   | 110   | 0.00     |
| 8 T   | Diethyl Ether               | 0.331 | 0.314 | 5.1   | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.573 | 0.580 | -1.2  | 114   | 0.00     |
| 10 T  | Methyl Iodide               | 0.684 | 0.680 | 0.6   | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.068 | 0.048 | 29.4# | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.540 | 0.534 | 1.1#  | 107   | 0.00     |
| 13 T  | Acrolein                    | 0.063 | 0.044 | 30.2# | 76    | 0.00     |
| 14 T  | Allyl chloride              | 0.705 | 0.712 | -1.0  | 108   | 0.00     |
| 15 T  | Acrylonitrile               | 0.169 | 0.147 | 13.0  | 91    | 0.00     |
| 16 T  | Acetone                     | 0.137 | 0.108 | 21.2  | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.634 | 1.607 | 1.7   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 0.384 | 0.318 | 17.2  | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.710 | 1.599 | 6.5   | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 0.864 | 0.702 | 18.8  | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.659 | 0.660 | -0.2  | 107   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.704 | 1.699 | 0.3   | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.168 | 1.133 | 3.0   | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.060 | 1.073 | -1.2  | 107   | 0.00     |
| 25 T  | 2-Butanone                  | 0.212 | 0.183 | 13.7  | 88    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.982 | 1.019 | -3.8  | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.754 | 0.768 | -1.9  | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 0.428 | 0.420 | 1.9   | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.137 | 0.122 | 10.9  | 93    | 0.00     |
| 30 C  | Chloroform                  | 1.165 | 1.192 | -2.3# | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 0.967 | 0.957 | 1.0   | 113   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.020 | 1.073 | -5.2  | 112   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.588 | 0.594 | -1.0  | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.323 | 0.338 | -4.6  | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.513 | 0.534 | -4.1  | 112   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.284 | 0.253 | 10.9  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.533 | 0.559 | -4.9  | 112   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.657 | 0.708 | -7.8  | 115   | 0.00     |
| 40 TM | Benzene                     | 1.498 | 1.545 | -3.1  | 108   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.138 | 0.132 | 4.3   | 115   | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 0.451 | 0.445 | 1.3   | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.522 | 0.484 | 7.3   | 94    | 0.00     |
| 44 TM | Trichloroethene             | 0.413 | 0.437 | -5.8  | 115   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.360 | 0.379 | -5.3# | 108   | 0.00     |
| 46 T  | Dibromomethane              | 0.252 | 0.244 | 3.2   | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.535 | 0.556 | -3.9  | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.222 | 0.216 | 2.7   | 99    | 0.00     |

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 ALS Vial : 17 Sample Multiplier: 1

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 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 | 0.003 | 0.0   | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 1.176 | 1.242 | -5.6  | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.275 | 0.258 | 6.2   | 96    | 0.00     |
| 52 CM | Toluene                     | 0.990 | 1.049 | -6.0# | 111   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.574 | 0.576 | -0.3  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.636 | 0.647 | -1.7  | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.344 | 0.340 | 1.2   | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.444 | 0.441 | 0.7   | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.561 | 0.559 | 0.4   | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.243 | 0.232 | 4.5   | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.189 | 0.177 | 6.3   | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.395 | 0.410 | -3.8  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.340 | 0.335 | 1.5   | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.435 | 0.450 | -3.4  | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.371 | 0.394 | -6.2  | 118   | 0.00     |
| 65 PM | Chlorobenzene               | 1.131 | 1.174 | -3.8  | 109   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.417 | 0.435 | -4.3  | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.962 | 2.082 | -6.1# | 113   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.786 | 0.839 | -6.7  | 113   | 0.00     |
| 69 T  | o-Xylene                    | 0.757 | 0.804 | -6.2  | 112   | 0.00     |
| 70 T  | Styrene                     | 1.275 | 1.368 | -7.3  | 110   | 0.00     |
| 71 P  | Bromoform                   | 0.262 | 0.254 | 3.1   | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 110   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.791 | 4.004 | -5.6  | 117   | 0.00     |
| 74 T  | N-amyl acetate              | 0.937 | 0.905 | 3.4   | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.847 | 0.793 | 6.4   | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.647 | 0.547 | 15.5  | 91    | 0.00     |
| 77 T  | Bromobenzene                | 0.925 | 0.914 | 1.2   | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 4.547 | 4.838 | -6.4  | 116   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.559 | 2.628 | -2.7  | 112   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.147 | 3.359 | -6.7  | 118   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.279 | 0.269 | 3.6   | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.652 | 2.842 | -7.2  | 115   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.732 | 2.952 | -8.1  | 120   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.122 | 3.358 | -7.6  | 118   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.122 | 4.510 | -9.4  | 120   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.452 | 3.760 | -8.9  | 121   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.851 | 1.903 | -2.8  | 113   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.834 | 1.901 | -3.7  | 116   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.134 | 3.489 | -11.3 | 120   | 0.00     |
| 90 T  | Hexachloroethane            | 0.621 | 0.679 | -9.3  | 117   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.646 | 1.680 | -2.1  | 113   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.127 | 0.117 | 7.9   | 97    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.916 | 0.954 | -4.1  | 113   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.447 | 0.473 | -5.8  | 119   | 0.00     |
| 95 T  | Naphthalene                 | 2.077 | 2.013 | 3.1   | 102   | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.802 | 0.807 | -0.6 | 108   | 0.00     |

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