

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\VY091119\  
 Data File : VY000008.D  
 Acq On : 11 Sep 2019 18:50  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.00ml/MSVOA Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY091119

Quant Time: Sep 19 11:38:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y091119S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 11:25:13 2019  
 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   | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.375 | 0.348 | 7.2   | 104   | 0.00     |
| 3 P   | Chloromethane               | 0.705 | 0.490 | 30.5# | 102   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.580 | 0.564 | 2.8#  | 103   | 0.00     |
| 5 T   | Bromomethane                | 0.338 | 0.363 | -7.4  | 114   | 0.00     |
| 6 T   | Chloroethane                | 0.382 | 0.373 | 2.4   | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.714 | 0.695 | 2.7   | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 0.280 | 0.289 | -3.2  | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.478 | 0.480 | -0.4  | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 0.556 | 0.553 | 0.5   | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.061 | 0.066 | -8.2  | 112   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.462 | 0.446 | 3.5#  | 101   | 0.01     |
| 13 T  | Acrolein                    | 0.050 | 0.046 | 8.0   | 117   | 0.00     |
| 14 T  | Allyl chloride              | 0.704 | 0.715 | -1.6  | 103   | 0.00     |
| 15 T  | Acrylonitrile               | 0.184 | 0.192 | -4.3  | 110   | 0.00     |
| 16 T  | Acetone                     | 0.141 | 0.141 | 0.0   | 104   | 0.00     |
| 17 T  | Carbon Disulfide            | 0.969 | 0.918 | 5.3   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 0.430 | 0.407 | 5.3   | 107   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.303 | 1.390 | -6.7  | 108   | 0.00     |
| 20 T  | Methylene Chloride          | 0.582 | 0.561 | 3.6   | 108   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.498 | 0.494 | 0.8   | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.529 | 1.587 | -3.8  | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.037 | 1.092 | -5.3  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.916 | 0.949 | -3.6  | 109   | 0.00     |
| 25 T  | 2-Butanone                  | 0.223 | 0.237 | -6.3  | 109   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.783 | 0.768 | 1.9   | 102   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.625 | 0.634 | -1.4  | 103   | 0.00     |
| 28 T  | Bromochloromethane          | 0.422 | 0.408 | 3.3   | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.140 | 0.148 | -5.7  | 111   | 0.00     |
| 30 C  | Chloroform                  | 0.927 | 0.944 | -1.8# | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 0.793 | 0.734 | 7.4   | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.765 | 0.772 | -0.9  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.507 | 0.544 | -7.3  | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.280 | 0.278 | 0.7   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.361 | 0.357 | 1.1   | 106   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.247 | 0.256 | -3.6  | 114   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.347 | 0.343 | 1.2   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.446 | 0.440 | 1.3   | 104   | 0.00     |
| 40 TM | Benzene                     | 1.162 | 1.161 | 0.1   | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.148 | 0.153 | -3.4  | 131   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.303 | 0.302 | 0.3   | 109   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.454 | 0.485 | -6.8  | 113   | 0.00     |
| 44 TM | Trichloroethene             | 0.299 | 0.294 | 1.7   | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.298 | 0.300 | -0.7# | 107   | 0.00     |

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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              | 0.161 | 0.163 | -1.2  | 109   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.387 | 0.395 | -2.1  | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.201 | 0.209 | -4.0  | 108   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 1.141 | 1.199 | -5.1  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.250 | 0.266 | -6.4  | 110   | 0.00     |
| 52 CM | Toluene                     | 0.732 | 0.741 | -1.2# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.406 | 0.429 | -5.7  | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.474 | 0.477 | -0.6  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.250 | 0.256 | -2.4  | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.360 | 0.370 | -2.8  | 107   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.413 | 0.426 | -3.1  | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.186 | 0.188 | -1.1  | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.178 | 0.191 | -7.3  | 109   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.267 | 0.274 | -2.6  | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.230 | 0.233 | -1.3  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.405 | 0.416 | -2.7  | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.306 | 0.307 | -0.3  | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 0.924 | 0.962 | -4.1  | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.313 | 0.327 | -4.5  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.689 | 1.713 | -1.4# | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.641 | 0.660 | -3.0  | 105   | 0.00     |
| 69 T  | o-Xylene                    | 0.617 | 0.639 | -3.6  | 104   | 0.00     |
| 70 T  | Styrene                     | 1.074 | 1.129 | -5.1  | 106   | 0.00     |
| 71 P  | Bromoform                   | 0.189 | 0.206 | -9.0  | 110   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.781 | 3.774 | 0.2   | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 1.049 | 1.118 | -6.6  | 112   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.871 | 0.879 | -0.9  | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.590 | 0.628 | -6.4  | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.806 | 0.821 | -1.9  | 109   | 0.00     |
| 78 T  | n-propylbenzene             | 4.575 | 4.555 | 0.4   | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.538 | 2.545 | -0.3  | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.126 | 3.124 | 0.1   | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.341 | 0.348 | -2.1  | 108   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.651 | 2.649 | 0.1   | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.659 | 2.744 | -3.2  | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.057 | 3.102 | -1.5  | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.964 | 3.914 | 1.3   | 104   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.334 | 3.365 | -0.9  | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.554 | 1.631 | -5.0  | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.567 | 1.605 | -2.4  | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.331 | 3.428 | -2.9  | 106   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.675 | 0.676 | -0.1 | 107   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.464 | 1.463 | 0.1  | 106   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.162 | 0.160 | 1.2  | 106   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.893 | 0.929 | -4.0 | 110   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.432 | 0.432 | 0.0  | 104   | 0.00     |
| 95 T | Naphthalene                 | 2.441 | 2.538 | -4.0 | 107   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.801 | 0.845 | -5.5 | 105   | 0.00     |

(#) = Out of Range

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