

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY070722\  
 Data File : VY009475.D  
 Acq On : 07 Jul 2022 18:16  
 Operator : KP/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY070722

Quant Time: Jul 08 11:02:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y070722S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 08 11:00:56 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   | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.383 | 0.382 | 0.3   | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.428 | 0.462 | -7.9  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.488 | 0.502 | -2.9# | 89    | 0.00     |
| 5 T   | Bromomethane                | 0.350 | 0.336 | 4.0   | 91    | 0.00     |
| 6 T   | Chloroethane                | 0.285 | 0.282 | 1.1   | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.651 | 0.647 | 0.6   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.249 | 0.267 | -7.2  | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.441 | 0.445 | -0.9  | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 0.523 | 0.602 | -15.1 | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.077 | 0.079 | -2.6  | 121   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.409 | 0.441 | -7.8# | 96    | 0.00     |
| 13 T  | Acrolein                    | 0.031 | 0.038 | -22.6 | 89    | 0.00     |
| 14 T  | Allyl chloride              | 0.704 | 0.804 | -14.2 | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 0.137 | 0.148 | -8.0  | 96    | 0.00     |
| 16 T  | Acetone                     | 0.122 | 0.150 | -23.0 | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.151 | 1.410 | -22.5 | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 0.357 | 0.340 | 4.8   | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.238 | 1.332 | -7.6  | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 0.685 | 0.554 | 19.1  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.479 | 0.530 | -10.6 | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.496 | 1.691 | -13.0 | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.957 | 1.126 | -17.7 | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.844 | 0.925 | -9.6  | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 0.197 | 0.216 | -9.6  | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.832 | 0.838 | -0.7  | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.564 | 0.605 | -7.3  | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 0.355 | 0.379 | -6.8  | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.127 | 0.132 | -3.9  | 90    | 0.00     |
| 30 C  | Chloroform                  | 0.923 | 0.940 | -1.8# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 0.820 | 0.855 | -4.3  | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.814 | 0.823 | -1.1  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.427 | 0.328 | 23.2  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.263 | 0.231 | 12.2  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.428 | 0.454 | -6.1  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.268 | 0.272 | -1.5  | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.458 | 0.464 | -1.3  | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.514 | 0.569 | -10.7 | 91    | 0.00     |
| 40 TM | Benzene                     | 1.258 | 1.346 | -7.0  | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.139 | 0.132 | 5.0   | 81    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.378 | 0.391 | -3.4  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.501 | 0.521 | -4.0  | 93    | 0.00     |
| 44 TM | Trichloroethene             | 0.355 | 0.377 | -6.2  | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.318 | 0.338 | -6.3# | 94    | 0.00     |
| 46 T  | Dibromomethane              | 0.187 | 0.197 | -5.3  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.445 | 0.460 | -3.4  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.216 | 0.239 | -10.6 | 95    | 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 0.904 | 0.693 | 23.3  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.263 | 0.270 | -2.7  | 89    | 0.00     |
| 52 CM | Toluene                     | 0.801 | 0.877 | -9.5# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.469 | 0.505 | -7.7  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.522 | 0.563 | -7.9  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.270 | 0.278 | -3.0  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.358 | 0.398 | -11.2 | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.444 | 0.482 | -8.6  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.175 | 0.187 | -6.9  | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.183 | 0.197 | -7.7  | 88    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.326 | 0.343 | -5.2  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.258 | 0.284 | -10.1 | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.371 | 0.357 | 3.8   | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.418 | 0.441 | -5.5  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 0.982 | 1.031 | -5.0  | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.369 | 0.380 | -3.0  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.714 | 1.810 | -5.6# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.669 | 0.714 | -6.7  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.641 | 0.685 | -6.9  | 94    | 0.00     |
| 70 T  | Styrene                     | 1.070 | 1.150 | -7.5  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.235 | 0.249 | -6.0  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.419 | 3.608 | -5.5  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 0.973 | 0.986 | -1.3  | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.685 | 0.694 | -1.3  | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.529 | 0.483 | 8.7   | 77    | 0.00     |
| 77 T  | Bromobenzene                | 0.832 | 0.888 | -6.7  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.131 | 4.335 | -4.9  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.313 | 2.458 | -6.3  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.858 | 3.043 | -6.5  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.259 | 0.263 | -1.5  | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.424 | 2.557 | -5.5  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.543 | 2.675 | -5.2  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.845 | 3.004 | -5.6  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.745 | 3.952 | -5.5  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.122 | 3.297 | -5.6  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.643 | 1.709 | -4.0  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.663 | 1.714 | -3.1  | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.915 | 3.108 | -6.6  | 97    | 0.00     |
| 90 T  | Hexachloroethane            | 0.613 | 0.639 | -4.2  | 96    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.506 | 1.560 | -3.6  | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.120 | 0.121 | -0.8  | 93    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.918 | 0.991 | -8.0  | 101   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.505 | 0.530 | -5.0  | 100   | 0.00     |
| 95 T  | Naphthalene                 | 1.899 | 2.064 | -8.7  | 97    | 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 | 0.795 | 0.854 | -7.4 | 100   | 0.00     |

(#) = Out of Range

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