

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv071620\  
 Data File : VY003226.D  
 Acq On : 16 Jul 2020 21:40  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 17 06:39:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 70    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.358 | 0.337 | 5.9    | 76    | 0.00     |
| 3 P   | Chloromethane               | 0.497 | 0.524 | -5.4   | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.510 | 0.529 | -3.7#  | 79    | 0.00     |
| 5 T   | Bromomethane                | 0.379 | 0.397 | -4.7   | 83    | 0.00     |
| 6 T   | Chloroethane                | 0.335 | 0.343 | -2.4   | 77    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.728 | 0.743 | -2.1   | 77    | 0.00     |
| 8 T   | Diethyl Ether               | 0.244 | 0.266 | -9.0   | 82    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.440 | 0.446 | -1.4   | 76    | 0.00     |
| 10 T  | Methyl Iodide               | 0.478 | 0.442 | 7.5    | 64    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.046 | 0.048 | -4.3   | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.416 | 0.422 | -1.4#  | 76    | 0.00     |
| 13 T  | Acrolein                    | 0.040 | 0.045 | -12.5  | 91    | 0.00     |
| 14 T  | Allyl chloride              | 0.617 | 0.732 | -18.6  | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 0.117 | 0.135 | -15.4  | 85    | 0.00     |
| 16 T  | Acetone                     | 0.094 | 0.106 | -12.8  | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.277 | 1.345 | -5.3   | 78    | 0.00     |
| 18 T  | Methyl Acetate              | 0.262 | 0.319 | -21.8  | 93    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.166 | 1.292 | -10.8  | 82    | 0.00     |
| 20 T  | Methylene Chloride          | 0.560 | 0.606 | -8.2   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.471 | 0.495 | -5.1   | 78    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.370 | 1.678 | -22.5  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.913 | 1.095 | -19.9  | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.794 | 0.909 | -14.5  | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 0.155 | 0.186 | -20.0  | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.715 | 0.744 | -4.1   | 77    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.518 | 0.559 | -7.9   | 79    | 0.00     |
| 28 T  | Bromochloromethane          | 0.344 | 0.414 | -20.3  | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.104 | 0.126 | -21.2  | 89    | 0.00     |
| 30 C  | Chloroform                  | 0.818 | 0.912 | -11.5# | 82    | 0.00     |
| 31 T  | Cyclohexane                 | 0.768 | 0.807 | -5.1   | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.736 | 0.804 | -9.2   | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.422 | 0.459 | -8.8   | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 73    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.288 | 0.292 | -1.4   | 77    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.472 | -4.2   | 80    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.244 | 0.279 | -14.3  | 87    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.468 | 0.479 | -2.4   | 77    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.569 | 0.558 | 1.9    | 75    | 0.00     |
| 40 TM | Benzene                     | 1.248 | 1.328 | -6.4   | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.147 | 0.140 | 4.8    | 71    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.384 | 0.412 | -7.3   | 83    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.472 | 0.543 | -15.0  | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.383 | 0.380 | 0.8    | 76    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.323 | 0.357 | -10.5# | 85    | 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.189 | 0.200 | -5.8   | 80    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.448 | 0.489 | -9.2   | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.211 | 0.242 | -14.7  | 86    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.003 | -50.0# | 80    | 0.00     |
| 50 S  | Toluene-d8                  | 1.070 | 1.046 | 2.2    | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.246 | 0.287 | -16.7  | 88    | 0.00     |
| 52 CM | Toluene                     | 0.798 | 0.833 | -4.4#  | 80    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.465 | 0.498 | -7.1   | 81    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.535 | 0.575 | -7.5   | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.267 | 0.281 | -5.2   | 81    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.363 | 0.405 | -11.6  | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.453 | 0.487 | -7.5   | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.185 | 0.204 | -10.3  | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.171 | 0.199 | -16.4  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.336 | 0.354 | -5.4   | 80    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.264 | 0.266 | -0.8   | 78    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.386 | 0.375 | 2.8    | 77    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 74    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.446 | 0.422 | 5.4    | 75    | 0.00     |
| 65 PM | Chlorobenzene               | 0.963 | 0.979 | -1.7   | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.384 | -2.7   | 80    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.720 | 1.796 | -4.4#  | 81    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.653 | 0.665 | -1.8   | 79    | 0.00     |
| 69 T  | o-Xylene                    | 0.610 | 0.629 | -3.1   | 80    | 0.00     |
| 70 T  | Styrene                     | 1.043 | 1.092 | -4.7   | 80    | 0.00     |
| 71 P  | Bromoform                   | 0.246 | 0.249 | -1.2   | 77    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 72    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.186 | 3.313 | -4.0   | 79    | 0.00     |
| 74 T  | N-amyl acetate              | 0.894 | 1.042 | -16.6  | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.615 | 0.657 | -6.8   | 82    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.443 | 0.471 | -6.3   | 82    | 0.00     |
| 77 T  | Bromobenzene                | 0.812 | 0.830 | -2.2   | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 3.756 | 4.012 | -6.8   | 81    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.096 | 2.214 | -5.6   | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.656 | 2.796 | -5.3   | 80    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.227 | 0.237 | -4.4   | 79    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.187 | 2.289 | -4.7   | 80    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.343 | 2.478 | -5.8   | 80    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.672 | 2.827 | -5.8   | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.221 | 3.394 | -5.4   | 80    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.007 | 3.140 | -4.4   | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.536 | 1.570 | -2.2   | 78    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.521 | 1.558 | -2.4   | 79    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.829 | 2.977 | -5.2   | 79    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.548 | 0.594 | -8.4 | 81    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.348 | 1.393 | -3.3 | 79    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.100 | 0.098 | 2.0  | 77    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.959 | 0.912 | 4.9  | 73    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.657 | 0.670 | -2.0 | 79    | 0.00     |
| 95 T | Naphthalene                 | 1.585 | 1.520 | 4.1  | 74    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.758 | 0.697 | 8.0  | 71    | 0.00     |

(#) = Out of Range

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