

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv050420\  
 Data File : VY002573.D  
 Acq On : 05 May 2020 04:34  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 05 09:25:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 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    | 85    | 0.01     |
| 2 T   | Dichlorodifluoromethane     | 0.380 | 0.362 | 4.7    | 68    | 0.00     |
| 3 P   | Chloromethane               | 0.405 | 0.436 | -7.7   | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.468 | 0.464 | 0.9#   | 75    | 0.00     |
| 5 T   | Bromomethane                | 0.323 | 0.356 | -10.2  | 91    | 0.01     |
| 6 T   | Chloroethane                | 0.279 | 0.296 | -6.1   | 84    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.725 | 0.691 | 4.7    | 77    | 0.01     |
| 8 T   | Diethyl Ether               | 0.244 | 0.302 | -23.8  | 100   | 0.01     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.443 | 0.430 | 2.9    | 79    | 0.02     |
| 10 T  | Methyl Iodide               | 0.604 | 0.686 | -13.6  | 85    | 0.02     |
| 11 T  | Tert butyl alcohol          | 0.043 | 0.045 | -4.7   | 90    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.430 | 0.432 | -0.5#  | 82    | 0.01     |
| 13 T  | Acrolein                    | 0.030 | 0.031 | -3.3   | 81    | 0.02     |
| 14 T  | Allyl chloride              | 0.627 | 0.710 | -13.2  | 91    | 0.02     |
| 15 T  | Acrylonitrile               | 0.115 | 0.139 | -20.9  | 98    | 0.01     |
| 16 T  | Acetone                     | 0.087 | 0.098 | -12.6  | 92    | 0.02     |
| 17 T  | Carbon Disulfide            | 1.295 | 1.346 | -3.9   | 81    | 0.02     |
| 18 T  | Methyl Acetate              | 0.290 | 0.347 | -19.7  | 100   | 0.02     |
| 19 T  | Methyl tert-butyl Ether     | 1.123 | 1.369 | -21.9  | 99    | 0.02     |
| 20 T  | Methylene Chloride          | 0.485 | 0.559 | -15.3  | 100   | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 0.470 | 0.524 | -11.5  | 90    | 0.02     |
| 22 T  | Diisopropyl ether           | 1.269 | 1.607 | -26.6# | 103   | 0.02     |
| 23 T  | Vinyl Acetate               | 0.798 | 0.984 | -23.3  | 98    | 0.02     |
| 24 P  | 1,1-Dichloroethane          | 0.751 | 0.874 | -16.4  | 94    | 0.02     |
| 25 T  | 2-Butanone                  | 0.142 | 0.167 | -17.6  | 96    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 0.714 | 0.634 | 11.2   | 75    | 0.02     |
| 27 T  | cis-1,2-Dichloroethene      | 0.521 | 0.610 | -17.1  | 97    | 0.01     |
| 28 T  | Bromochloromethane          | 0.308 | 0.388 | -26.0# | 106   | 0.02     |
| 29 T  | Tetrahydrofuran             | 0.094 | 0.114 | -21.3  | 97    | 0.01     |
| 30 C  | Chloroform                  | 0.781 | 0.914 | -17.0# | 96    | 0.01     |
| 31 T  | Cyclohexane                 | 0.756 | 0.724 | 4.2    | 81    | 0.01     |
| 32 T  | 1,1,1-Trichloroethane       | 0.726 | 0.761 | -4.8   | 86    | 0.02     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.420 | 0.500 | -19.0  | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 93    | 0.01     |
| 35 S  | Dibromofluoromethane        | 0.286 | 0.316 | -10.5  | 103   | 0.01     |
| 36 T  | 1,1-Dichloropropene         | 0.419 | 0.399 | 4.8    | 85    | 0.01     |
| 37 T  | Ethyl Acetate               | 0.215 | 0.237 | -10.2  | 98    | 0.01     |
| 38 T  | Carbon Tetrachloride        | 0.458 | 0.425 | 7.2    | 83    | 0.01     |
| 39 T  | Methylcyclohexane           | 0.554 | 0.503 | 9.2    | 81    | 0.00     |
| 40 TM | Benzene                     | 1.211 | 1.283 | -5.9   | 95    | 0.01     |
| 41 T  | Methacrylonitrile           | 0.116 | 0.138 | -19.0  | 93    | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 0.340 | 0.368 | -8.2   | 95    | 0.01     |
| 43 T  | Isopropyl Acetate           | 0.404 | 0.453 | -12.1  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.378 | 0.394 | -4.2   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.292 | 0.324 | -11.0# | 100   | 0.01     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv050420\  
 Data File : VY002573.D  
 Acq On : 05 May 2020 04:34  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 05 09:25:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.168 | 0.188 | -11.9 | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.409 | 0.451 | -10.3 | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.183 | 0.205 | -12.0 | 97    | 0.01     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 1.117 | 1.191 | -6.6  | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.208 | 0.232 | -11.5 | 96    | 0.00     |
| 52 CM | Toluene                     | 0.778 | 0.820 | -5.4# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.428 | 0.462 | -7.9  | 95    | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 0.495 | 0.530 | -7.1  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.245 | 0.276 | -12.7 | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.326 | 0.373 | -14.4 | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.416 | 0.466 | -12.0 | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.172 | 0.196 | -14.0 | 108   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.143 | 0.161 | -12.6 | 96    | 0.01     |
| 60 T  | Dibromochloromethane        | 0.312 | 0.347 | -11.2 | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.243 | 0.268 | -10.3 | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.379 | 0.418 | -10.3 | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.444 | 0.473 | -6.5  | 98    | 0.00     |
| 65 PM | Chlorobenzene               | 0.950 | 0.988 | -4.0  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.353 | 0.376 | -6.5  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.670 | 1.691 | -1.3# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.646 | 0.652 | -0.9  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.605 | 0.631 | -4.3  | 97    | 0.00     |
| 70 T  | Styrene                     | 1.034 | 1.114 | -7.7  | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.219 | 0.235 | -7.3  | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.240 | 3.171 | 2.1   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 0.780 | 0.866 | -11.0 | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.515 | 0.506 | 1.7   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.444 | 0.381 | 14.2  | 76    | 0.01     |
| 77 T  | Bromobenzene                | 0.810 | 0.841 | -3.8  | 97    | 0.01     |
| 78 T  | n-propylbenzene             | 3.761 | 3.666 | 2.5   | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.083 | 2.101 | -0.9  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.686 | 2.708 | -0.8  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.222 | 0.218 | 1.8   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.188 | 2.225 | -1.7  | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.355 | 2.331 | 1.0   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.677 | 2.747 | -2.6  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.268 | 3.159 | 3.3   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.062 | 2.988 | 2.4   | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.532 | 1.561 | -1.9  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.517 | 1.554 | -2.4  | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.788 | 2.644 | 5.2   | 88    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv050420\  
Data File : VY002573.D  
Acq On : 05 May 2020 04:34  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 50 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: May 05 09:25:30 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
Quant Title : SW846 8260  
QLast Update : Mon May 04 12:22:08 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                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.558 | 0.573 | -2.7 | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.367 | 1.425 | -4.2 | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.096 | 0.100 | -4.2 | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.993 | 0.980 | 1.3  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.596 | 0.559 | 6.2  | 89    | 0.00     |
| 95 T | Naphthalene                 | 1.811 | 1.888 | -4.3 | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.843 | 0.859 | -1.9 | 95    | 0.01     |

(#) = Out of Range

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