

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY012723\  
 Data File : VY012375.D  
 Acq On : 27 Jan 2023 10:27  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 30 02:34:05 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011623S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 04:31:47 2023  
 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   | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.437 | 0.402 | 8.0   | 92    | 0.00     |
| 3 P   | Chloromethane               | 0.403 | 0.377 | 6.5   | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.471 | 0.469 | 0.4#  | 92    | 0.00     |
| 5 T   | Bromomethane                | 0.364 | 0.369 | -1.4  | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.307 | 0.316 | -2.9  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.919 | 0.952 | -3.6  | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.273 | 0.271 | 0.7   | 89    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.447 | 0.464 | -3.8  | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 0.680 | 0.644 | 5.3   | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.057 | 0.049 | 14.0  | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.459 | 0.463 | -0.9# | 90    | 0.00     |
| 13 T  | Acrolein                    | 0.023 | 0.018 | 21.7  | 96    | 0.00     |
| 14 T  | Allyl chloride              | 0.568 | 0.558 | 1.8   | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 0.119 | 0.123 | -3.4  | 89    | 0.00     |
| 16 T  | Acetone                     | 0.139 | 0.149 | -7.2  | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.420 | 1.313 | 7.5   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 0.312 | 0.307 | 1.6   | 87    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.280 | 1.321 | -3.2  | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 0.762 | 0.528 | 30.7# | 79    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.512 | 0.518 | -1.2  | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.132 | 1.126 | 0.5   | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.705 | 0.712 | -1.0  | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.785 | 0.793 | -1.0  | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.154 | 0.157 | -1.9  | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.852 | 0.893 | -4.8  | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.563 | 0.580 | -3.0  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 0.171 | 0.152 | 11.1  | 81    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.084 | 0.084 | 0.0   | 84    | 0.00     |
| 30 C  | Chloroform                  | 0.927 | 0.948 | -2.3# | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 0.729 | 0.691 | 5.2   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.918 | 0.959 | -4.5  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.465 | 0.400 | 14.0  | 83    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.265 | 0.249 | 6.0   | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.450 | 0.469 | -4.2  | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.198 | 0.203 | -2.5  | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.581 | 0.631 | -8.6  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.550 | 0.588 | -6.9  | 94    | 0.00     |
| 40 TM | Benzene                     | 1.299 | 1.358 | -4.5  | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.117 | 0.122 | -4.3  | 83    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.413 | 0.437 | -5.8  | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.369 | 0.376 | -1.9  | 84    | 0.00     |
| 44 TM | Trichloroethene             | 0.388 | 0.406 | -4.6  | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.271 | 0.286 | -5.5# | 90    | 0.00     |
| 46 T  | Dibromomethane              | 0.181 | 0.193 | -6.6  | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.457 | 0.490 | -7.2  | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.170 | 0.176 | -3.5  | 82    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.003 | -50.0# | 88    | 0.01     |
| 50 S  | Toluene-d8                  | 1.044 | 0.888 | 14.9   | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.197 | 0.209 | -6.1   | 87    | 0.00     |
| 52 CM | Toluene                     | 0.865 | 0.919 | -6.2#  | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.478 | 0.510 | -6.7   | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.514 | 0.540 | -5.1   | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.258 | 0.278 | -7.8   | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.338 | 0.369 | -9.2   | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.421 | 0.449 | -6.7   | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.112 | 0.108 | 3.6    | 82    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.150 | 0.163 | -8.7   | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.342 | 0.372 | -8.8   | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.249 | 0.263 | -5.6   | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.373 | 0.335 | 10.2   | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.456 | 0.501 | -9.9   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 1.023 | 1.086 | -6.2   | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.386 | 0.422 | -9.3   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.828 | 1.963 | -7.4#  | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.723 | 0.780 | -7.9   | 92    | 0.00     |
| 69 T  | o-Xylene                    | 0.690 | 0.745 | -8.0   | 91    | 0.00     |
| 70 T  | Styrene                     | 1.154 | 1.249 | -8.2   | 91    | 0.00     |
| 71 P  | Bromoform                   | 0.247 | 0.271 | -9.7   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.605 | 3.878 | -7.6   | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 0.707 | 0.707 | 0.0    | 84    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.568 | 0.595 | -4.8   | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.460 | 0.444 | 3.5    | 74    | 0.00     |
| 77 T  | Bromobenzene                | 0.868 | 0.914 | -5.3   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.219 | 4.455 | -5.6   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.385 | 2.526 | -5.9   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.134 | 3.333 | -6.3   | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.223 | 0.238 | -6.7   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.506 | 2.606 | -4.0   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.732 | 2.927 | -7.1   | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.091 | 3.318 | -7.3   | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.889 | 4.174 | -7.3   | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.398 | 3.641 | -7.2   | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.725 | 1.827 | -5.9   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.721 | 1.801 | -4.6   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.945 | 3.110 | -5.6   | 94    | 0.00     |
| 90 T  | Hexachloroethane            | 0.613 | 0.636 | -3.8   | 93    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.540 | 1.614 | -4.8   | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.117 | 0.125 | -6.8   | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.987 | 1.051 | -6.5   | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.594 | 0.628 | -5.7   | 97    | 0.00     |
| 95 T  | Naphthalene                 | 1.947 | 2.148 | -10.3  | 94    | 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 | 0.849 | 0.918 | -8.1 | 97    | 0.00     |

(#) = Out of Range

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