

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\YY112922\  
 Data File : VY011628.D  
 Acq On : 29 Nov 2022 17:31  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 30 04:45:11 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 19 22:37:14 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.326 | 0.236 | 27.6# | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.482 | 0.376 | 22.0  | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.566 | 0.425 | 24.9# | 77    | 0.00     |
| 5 T   | Bromomethane                | 0.421 | 0.295 | 29.9# | 77    | 0.00     |
| 6 T   | Chloroethane                | 0.395 | 0.298 | 24.6  | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.830 | 0.739 | 11.0  | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.268 | 0.265 | 1.1   | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.480 | 0.445 | 7.3   | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 0.559 | 0.526 | 5.9   | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.066 | 0.057 | 13.6  | 108   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.439 | 0.408 | 7.1#  | 92    | 0.00     |
| 13 T  | Acrolein                    | 0.013 | 0.012 | 7.7   | 141   | 0.00     |
| 14 T  | Allyl chloride              | 0.771 | 0.749 | 2.9   | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 0.146 | 0.160 | -9.6  | 110   | 0.00     |
| 16 T  | Acetone                     | 0.165 | 0.170 | -3.0  | 103   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.218 | 1.065 | 12.6  | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.435 | 0.408 | 6.2   | 111   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.254 | 1.336 | -6.5  | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 0.834 | 0.599 | 28.2# | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.508 | 0.478 | 5.9   | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.684 | 1.725 | -2.4  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.981 | 1.070 | -9.1  | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.989 | 0.942 | 4.8   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.217 | 0.231 | -6.5  | 106   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.912 | 0.851 | 6.7   | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.598 | 0.582 | 2.7   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.397 | 0.433 | -9.1  | 105   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.122 | 0.137 | -12.3 | 110   | 0.00     |
| 30 C  | Chloroform                  | 1.025 | 0.996 | 2.8#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.842 | 0.759 | 9.9   | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.917 | 0.866 | 5.6   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.508 | 0.536 | -5.5  | 114   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.328 | -6.5  | 114   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.481 | 0.443 | 7.9   | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.274 | 0.284 | -3.6  | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.538 | 0.493 | 8.4   | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.537 | 0.503 | 6.3   | 89    | 0.00     |
| 40 TM | Benzene                     | 1.402 | 1.308 | 6.7   | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.139 | 0.120 | 13.7  | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.433 | 0.410 | 5.3   | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.494 | 0.511 | -3.4  | 103   | 0.00     |
| 44 TM | Trichloroethene             | 0.377 | 0.350 | 7.2   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.358 | 0.345 | 3.6#  | 95    | 0.00     |
| 46 T  | Dibromomethane              | 0.200 | 0.195 | 2.5   | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.505 | 0.484 | 4.2   | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.220 | 0.236 | -7.3  | 104   | 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                 | 0.002 | 0.003 | -50.0# | 108   | 0.00     |
| 50 S  | Toluene-d8                  | 1.119 | 1.125 | -0.5   | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.275 | 0.299 | -8.7   | 107   | 0.00     |
| 52 CM | Toluene                     | 0.886 | 0.838 | 5.4#   | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.504 | 0.492 | 2.4    | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.567 | 0.553 | 2.5    | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.287 | 0.283 | 1.4    | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.356 | 0.386 | -8.4   | 104   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.485 | 0.478 | 1.4    | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.175 | 0.204 | -16.6  | 110   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.196 | 0.216 | -10.2  | 106   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.351 | 0.345 | 1.7    | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.262 | 0.262 | 0.0    | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.414 | 0.438 | -5.8   | 110   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.412 | 0.386 | 6.3    | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 1.047 | 0.985 | 5.9    | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.397 | 0.381 | 4.0    | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.890 | 1.799 | 4.8#   | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.720 | 0.684 | 5.0    | 88    | 0.00     |
| 69 T  | o-Xylene                    | 0.670 | 0.661 | 1.3    | 91    | 0.00     |
| 70 T  | Styrene                     | 1.144 | 1.133 | 1.0    | 91    | 0.00     |
| 71 P  | Bromoform                   | 0.241 | 0.245 | -1.7   | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.616 | 3.439 | 4.9    | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 0.893 | 0.917 | -2.7   | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.713 | 0.707 | 0.8    | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.538 | 0.572 | -6.3   | 98    | 0.00     |
| 77 T  | Bromobenzene                | 0.844 | 0.794 | 5.9    | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 4.412 | 4.161 | 5.7    | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.487 | 2.351 | 5.5    | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.048 | 2.908 | 4.6    | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.246 | 0.248 | -0.8   | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.600 | 2.431 | 6.5    | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.655 | 2.525 | 4.9    | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.011 | 2.880 | 4.4    | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.962 | 3.763 | 5.0    | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.306 | 3.151 | 4.7    | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.719 | 1.580 | 8.1    | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.719 | 1.558 | 9.4    | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.039 | 2.922 | 3.8    | 89    | 0.00     |
| 90 T  | Hexachloroethane            | 0.668 | 0.604 | 9.6    | 91    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.524 | 1.437 | 5.7    | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.117 | 0.123 | -5.1   | 107   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.845 | 0.861 | -1.9   | 100   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.525 | 0.522 | 0.6    | 100   | 0.00     |
| 95 T  | Naphthalene                 | 1.581 | 1.819 | -15.1  | 111   | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.724 | 0.749 | -3.5 | 103   | 0.00     |

(#) = Out of Range

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