

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD013120\  
 Data File : VD065024.D  
 Acq On : 31 Jan 2020 10:17  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 31 13:03:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.377 | 0.391 | -3.7  | 110   | 0.00     |
| 3 P   | Chloromethane               | 0.552 | 0.505 | 8.5   | 101   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.634 | 0.594 | 6.3#  | 102   | 0.00     |
| 5 T   | Bromomethane                | 0.427 | 0.385 | 9.8   | 102   | 0.00     |
| 6 T   | Chloroethane                | 0.418 | 0.390 | 6.7   | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.979 | 0.935 | 4.5   | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 0.221 | 0.205 | 7.2   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.456 | 0.471 | -3.3  | 113   | 0.00     |
| 10 T  | Methyl Iodide               | 0.484 | 0.497 | -2.7  | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.027 | 0.022 | 18.5  | 83    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.435 | 0.434 | 0.2#  | 110   | 0.00     |
| 13 T  | Acrolein                    | 0.033 | 0.034 | -3.0  | 113   | 0.00     |
| 14 T  | Allyl chloride              | 0.694 | 0.706 | -1.7  | 110   | 0.00     |
| 15 T  | Acrylonitrile               | 0.096 | 0.089 | 7.3   | 101   | 0.00     |
| 16 T  | Acetone                     | 0.101 | 0.116 | -14.9 | 122   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.432 | 1.402 | 2.1   | 107   | 0.00     |
| 18 T  | Methyl Acetate              | 0.225 | 0.199 | 11.6  | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.972 | 0.916 | 5.8   | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.556 | 0.475 | 14.6  | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.501 | 0.503 | -0.4  | 110   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.383 | 1.390 | -0.5  | 108   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.810 | 0.787 | 2.8   | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.849 | 0.850 | -0.1  | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 0.130 | 0.130 | 0.0   | 104   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.770 | 0.794 | -3.1  | 114   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.535 | 0.538 | -0.6  | 111   | 0.00     |
| 28 T  | Bromochloromethane          | 0.340 | 0.344 | -1.2  | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.080 | 0.073 | 8.8   | 98    | 0.00     |
| 30 C  | Chloroform                  | 0.878 | 0.867 | 1.3#  | 109   | 0.00     |
| 31 T  | Cyclohexane                 | 0.836 | 0.813 | 2.8   | 111   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.817 | 0.821 | -0.5  | 110   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.480 | 0.472 | 1.7   | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.325 | -3.5  | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.482 | 0.511 | -6.0  | 110   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.199 | 0.184 | 7.5   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.510 | 0.533 | -4.5  | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.564 | 0.608 | -7.8  | 109   | 0.00     |
| 40 TM | Benzene                     | 1.328 | 1.379 | -3.8  | 109   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.107 | 0.111 | -3.7  | 94    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.396 | 0.392 | 1.0   | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.378 | 0.356 | 5.8   | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.372 | 0.386 | -3.8  | 110   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.322 | 0.328 | -1.9# | 109   | 0.00     |

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 Quant Title : SW846 8260  
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.176 | 0.172 | 2.3   | 105   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.457 | 0.475 | -3.9  | 110   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.174 | 0.171 | 1.7   | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 1.213 | 1.296 | -6.8  | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.189 | 0.183 | 3.2   | 99    | 0.00     |
| 52 CM | Toluene                     | 0.856 | 0.897 | -4.8# | 110   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.436 | 0.435 | 0.2   | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.510 | 0.531 | -4.1  | 108   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.237 | 0.230 | 3.0   | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.283 | 0.283 | 0.0   | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.406 | 0.404 | 0.5   | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.094 | 0.093 | 1.1   | 113   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.131 | 0.141 | -7.6  | 108   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.316 | 0.312 | 1.3   | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.228 | 0.223 | 2.2   | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.371 | 0.399 | -7.5  | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.361 | 0.387 | -7.2  | 110   | 0.00     |
| 65 PM | Chlorobenzene               | 1.015 | 1.031 | -1.6  | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.382 | 0.393 | -2.9  | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.802 | 1.925 | -6.8# | 109   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.694 | 0.749 | -7.9  | 109   | 0.00     |
| 69 T  | o-Xylene                    | 0.616 | 0.661 | -7.3  | 109   | 0.00     |
| 70 T  | Styrene                     | 1.097 | 1.180 | -7.6  | 107   | 0.00     |
| 71 P  | Bromoform                   | 0.212 | 0.202 | 4.7   | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.417 | 3.756 | -9.9  | 109   | 0.00     |
| 74 T  | N-amyl acetate              | 0.765 | 0.743 | 2.9   | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.574 | 0.560 | 2.4   | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.415 | 0.451 | -8.7  | 102   | 0.00     |
| 77 T  | Bromobenzene                | 0.836 | 0.861 | -3.0  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 4.064 | 4.480 | -10.2 | 110   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.230 | 2.395 | -7.4  | 109   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.801 | 3.064 | -9.4  | 110   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.194 | 0.194 | 0.0   | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.364 | 2.512 | -6.3  | 108   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.377 | 2.597 | -9.3  | 108   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.837 | 3.055 | -7.7  | 108   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.365 | 3.651 | -8.5  | 109   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.149 | 3.461 | -9.9  | 109   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.604 | 1.687 | -5.2  | 109   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.592 | 1.611 | -1.2  | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.874 | 3.190 | -11.0 | 109   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.607 | 0.645 | -6.3 | 108   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.362 | 1.389 | -2.0 | 104   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.092 | 0.087 | 5.4  | 100   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.942 | 0.943 | -0.1 | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.596 | 0.613 | -2.9 | 108   | 0.00     |
| 95 T | Naphthalene                 | 1.521 | 1.511 | 0.7  | 98    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.817 | 0.821 | -0.5 | 101   | 0.00     |

(#) = Out of Range

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