

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD072720\  
 Data File : VD066070.D  
 Acq On : 27 Jul 2020 16:41  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 27 17:58:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 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    | 63    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.379 | 0.304 | 19.8   | 54    | 0.00     |
| 3 P   | Chloromethane               | 0.310 | 0.276 | 11.0   | 59    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.295 | 0.258 | 12.5#  | 56    | 0.00     |
| 5 T   | Bromomethane                | 0.234 | 0.205 | 12.4   | 56    | 0.00     |
| 6 T   | Chloroethane                | 0.176 | 0.169 | 4.0    | 59    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.717 | 0.689 | 3.9    | 60    | 0.00     |
| 8 T   | Diethyl Ether               | 0.198 | 0.211 | -6.6   | 67    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.433 | 0.393 | 9.2    | 57    | 0.00     |
| 10 T  | Methyl Iodide               | 0.324 | 0.495 | -52.8# | 83    | -0.01    |
| 11 T  | Tert butyl alcohol          | 0.033 | 0.029 | 12.1   | 69    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.413 | 0.388 | 6.1#   | 58    | 0.00     |
| 13 T  | Acrolein                    | 0.034 | 0.031 | 8.8    | 64    | 0.00     |
| 14 T  | Allyl chloride              | 0.646 | 0.617 | 4.5    | 58    | 0.00     |
| 15 T  | Acrylonitrile               | 0.085 | 0.091 | -7.1   | 67    | 0.00     |
| 16 T  | Acetone                     | 0.082 | 0.077 | 6.1    | 56    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.341 | 1.177 | 12.2   | 55    | 0.00     |
| 18 T  | Methyl Acetate              | 0.192 | 0.198 | -3.1   | 68    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.849 | 1.012 | -19.2  | 73    | 0.00     |
| 20 T  | Methylene Chloride          | 0.521 | 0.501 | 3.8    | 68    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.467 | 0.474 | -1.5   | 63    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.228 | 1.308 | -6.5   | 64    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.692 | 0.771 | -11.4  | 66    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.744 | 0.800 | -7.5   | 65    | 0.00     |
| 25 T  | 2-Butanone                  | 0.109 | 0.113 | -3.7   | 63    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.669 | 0.677 | -1.2   | 62    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.495 | 0.524 | -5.9   | 65    | 0.00     |
| 28 T  | Bromochloromethane          | 0.316 | 0.356 | -12.7  | 76    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.067 | 0.073 | -9.0   | 66    | 0.00     |
| 30 C  | Chloroform                  | 0.778 | 0.863 | -10.9# | 69    | 0.00     |
| 31 T  | Cyclohexane                 | 0.732 | 0.628 | 14.2   | 54    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.720 | 0.769 | -6.8   | 66    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.407 | 0.494 | -21.4# | 86    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 65    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.303 | 0.345 | -13.9  | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.427 | 0.415 | 2.8    | 61    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.163 | 0.175 | -7.4   | 70    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.463 | 0.486 | -5.0   | 66    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.517 | 0.477 | 7.7    | 56    | 0.00     |
| 40 TM | Benzene                     | 1.194 | 1.227 | -2.8   | 65    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.093 | 0.106 | -14.0  | 70    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.327 | 0.388 | -18.7  | 76    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.318 | 0.343 | -7.9   | 68    | 0.00     |
| 44 TM | Trichloroethene             | 0.361 | 0.372 | -3.0   | 66    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.289 | 0.299 | -3.5#  | 65    | 0.00     |

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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              | 0.156 | 0.172 | -10.3 | 70    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.412 | 0.454 | -10.2 | 70    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.161 | 0.163 | -1.2  | 64    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 66    | 0.00     |
| 50 S  | Toluene-d8                  | 1.130 | 1.267 | -12.1 | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.160 | 0.180 | -12.5 | 70    | 0.00     |
| 52 CM | Toluene                     | 0.779 | 0.840 | -7.8# | 66    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.383 | 0.436 | -13.8 | 72    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.465 | 0.504 | -8.4  | 68    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.221 | 0.246 | -11.3 | 71    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.257 | 0.301 | -17.1 | 70    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.365 | 0.399 | -9.3  | 70    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.123 | 0.136 | -10.6 | 80    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.111 | 0.122 | -9.9  | 67    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.298 | 0.350 | -17.4 | 76    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.213 | 0.248 | -16.4 | 74    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.392 | 0.451 | -15.1 | 84    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 69    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.339 | 0.340 | -0.3  | 67    | 0.00     |
| 65 PM | Chlorobenzene               | 0.915 | 0.962 | -5.1  | 70    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.338 | 0.381 | -12.7 | 74    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.575 | 1.661 | -5.5# | 69    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.606 | 0.653 | -7.8  | 70    | 0.00     |
| 69 T  | o-Xylene                    | 0.551 | 0.598 | -8.5  | 70    | 0.00     |
| 70 T  | Styrene                     | 0.946 | 1.077 | -13.8 | 73    | 0.00     |
| 71 P  | Bromoform                   | 0.198 | 0.229 | -15.7 | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 78    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.025 | 2.962 | 2.1   | 70    | 0.00     |
| 74 T  | N-amyl acetate              | 0.627 | 0.636 | -1.4  | 73    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.500 | 0.496 | 0.8   | 75    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.376 | 0.312 | 17.0  | 65    | 0.00     |
| 77 T  | Bromobenzene                | 0.773 | 0.794 | -2.7  | 77    | 0.00     |
| 78 T  | n-propylbenzene             | 3.511 | 3.410 | 2.9   | 69    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.006 | 1.987 | 0.9   | 72    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.486 | 2.544 | -2.3  | 73    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.164 | 0.165 | -0.6  | 75    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.117 | 2.062 | 2.6   | 71    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.175 | 2.191 | -0.7  | 71    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.452 | 2.552 | -4.1  | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 2.996 | 2.946 | 1.7   | 70    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.722 | 2.801 | -2.9  | 73    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.436 | 1.454 | -1.3  | 76    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.451 | 1.426 | 1.7   | 74    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.531 | 2.423 | 4.3   | 68    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.563 | 0.551 | 2.1   | 74    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.244 | 1.311 | -5.4  | 78    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.082 | 0.082 | 0.0   | 77    | 0.01     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.893 | 0.964 | -8.0  | 80    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.552 | 0.543 | 1.6   | 73    | 0.00     |
| 95 T | Naphthalene                 | 1.425 | 1.597 | -12.1 | 81    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.776 | 0.871 | -12.2 | 83    | 0.00     |

(#) = Out of Range

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