

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD092520\  
 Data File : VD066902.D  
 Acq On : 26 Sep 2020 05:50  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 26 07:47:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 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    | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.412 | 0.305 | 26.0#  | 80    | 0.00     |
| 3 P   | Chloromethane               | 0.459 | 0.410 | 10.7   | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.454 | 0.396 | 12.8#  | 83    | 0.00     |
| 5 T   | Bromomethane                | 0.319 | 0.324 | -1.6   | 97    | 0.00     |
| 6 T   | Chloroethane                | 0.282 | 0.271 | 3.9    | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.932 | 0.808 | 13.3   | 83    | 0.00     |
| 8 T   | Diethyl Ether               | 0.237 | 0.262 | -10.5  | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.540 | 0.476 | 11.9   | 84    | 0.00     |
| 10 T  | Methyl Iodide               | 0.477 | 0.504 | -5.7   | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.040 | 0.032 | 20.0   | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.490 | 0.459 | 6.3#   | 84    | 0.00     |
| 13 T  | Acrolein                    | 0.036 | 0.037 | -2.8   | 93    | 0.00     |
| 14 T  | Allyl chloride              | 0.719 | 0.736 | -2.4   | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 0.105 | 0.112 | -6.7   | 93    | 0.00     |
| 16 T  | Acetone                     | 0.104 | 0.082 | 21.2#  | 67    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.497 | 1.383 | 7.6    | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 0.258 | 0.326 | -26.4# | 120   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.063 | 1.208 | -13.6  | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 0.675 | 0.642 | 4.9    | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.567 | 0.592 | -4.4   | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.478 | 1.625 | -9.9   | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.727 | 0.799 | -9.9   | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.989 | 1.003 | -1.4   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.125 | 0.131 | -4.8   | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.906 | 0.760 | 16.1   | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.616 | 0.681 | -10.6  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.409 | 0.453 | -10.8  | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.080 | 0.089 | -11.2  | 95    | 0.00     |
| 30 C  | Chloroform                  | 1.066 | 1.110 | -4.1#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.890 | 0.748 | 16.0   | 80    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.964 | 0.966 | -0.2   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.489 | 0.464 | 5.1    | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.318 | 0.301 | 5.3    | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.496 | 0.440 | 11.3   | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.179 | 0.178 | 0.6    | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.542 | 0.486 | 10.3   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.570 | 0.500 | 12.3   | 82    | 0.00     |
| 40 TM | Benzene                     | 1.382 | 1.394 | -0.9   | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.110 | 0.096 | 12.7   | 82    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.409 | 0.399 | 2.4    | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.346 | 0.351 | -1.4   | 93    | 0.00     |
| 44 TM | Trichloroethene             | 0.394 | 0.383 | 2.8    | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.348 | 0.351 | -0.9#  | 96    | 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              | 0.189 | 0.192 | -1.6  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.508 | 0.508 | 0.0   | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.170 | 0.171 | -0.6  | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 1.084 | 1.056 | 2.6   | 92    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.175 | 0.186 | -6.3  | 95    | 0.00     |
| 52 CM | Toluene                     | 0.890 | 0.925 | -3.9# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.432 | 0.439 | -1.6  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.527 | 0.534 | -1.3  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.260 | 0.270 | -3.8  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.278 | 0.316 | -13.7 | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.429 | 0.443 | -3.3  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.132 | 0.127 | 3.8   | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.118 | 0.124 | -5.1  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.339 | 0.354 | -4.4  | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.242 | 0.261 | -7.9  | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.371 | 0.366 | 1.3   | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.360 | 0.363 | -0.8  | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 1.041 | 1.045 | -0.4  | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.394 | 0.403 | -2.3  | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.828 | 1.843 | -0.8# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.692 | 0.704 | -1.7  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.626 | 0.649 | -3.7  | 98    | 0.00     |
| 70 T  | Styrene                     | 1.087 | 1.167 | -7.4  | 100   | 0.00     |
| 71 P  | Bromoform                   | 0.199 | 0.212 | -6.5  | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.612 | 3.784 | -4.8  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 0.705 | 0.706 | -0.1  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.623 | 0.650 | -4.3  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.414 | 0.390 | 5.8   | 91    | 0.00     |
| 77 T  | Bromobenzene                | 0.845 | 0.911 | -7.8  | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 4.345 | 4.441 | -2.2  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.476 | 2.577 | -4.1  | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.065 | 3.190 | -4.1  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.166 | 0.180 | -8.4  | 96    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.610 | 2.713 | -3.9  | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.518 | 2.689 | -6.8  | 99    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.039 | 3.229 | -6.3  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.622 | 3.657 | -1.0  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.264 | 3.378 | -3.5  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.669 | 1.701 | -1.9  | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.658 | 1.669 | -0.7  | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.103 | 3.010 | 3.0   | 90    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.663 | 0.666 | -0.5  | 99    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.428 | 1.491 | -4.4  | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.100 | 0.108 | -8.0  | 103   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.899 | 0.967 | -7.6  | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.539 | 0.535 | 0.7   | 95    | 0.00     |
| 95 T | Naphthalene                 | 1.526 | 1.791 | -17.4 | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.776 | 0.838 | -8.0  | 99    | 0.00     |

(#) = Out of Range

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