

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD082120\  
 Data File : VD066358.D  
 Acq On : 21 Aug 2020 14:08  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD082120

Quant Time: Aug 22 02:26:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:36:12 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    | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.425 | 0.418 | 1.6    | 108   | 0.00     |
| 3 P   | Chloromethane               | 0.301 | 0.301 | 0.0    | 111   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.324 | 0.320 | 1.2#   | 107   | 0.00     |
| 5 T   | Bromomethane                | 0.242 | 0.238 | 1.7    | 108   | 0.00     |
| 6 T   | Chloroethane                | 0.207 | 0.205 | 1.0    | 106   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.880 | 0.893 | -1.5   | 108   | 0.00     |
| 8 T   | Diethyl Ether               | 0.197 | 0.190 | 3.6    | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.434 | 0.450 | -3.7   | 112   | 0.01     |
| 10 T  | Methyl Iodide               | 0.495 | 0.479 | 3.2    | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.037 | 0.028 | 24.3#  | 102   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.408 | 0.429 | -5.1#  | 110   | 0.00     |
| 13 T  | Acrolein                    | 0.022 | 0.019 | 13.6   | 93    | 0.00     |
| 14 T  | Allyl chloride              | 0.544 | 0.558 | -2.6   | 106   | 0.00     |
| 15 T  | Acrylonitrile               | 0.079 | 0.079 | 0.0    | 104   | 0.00     |
| 16 T  | Acetone                     | 0.088 | 0.087 | 1.1    | 103   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.235 | 1.254 | -1.5   | 106   | 0.00     |
| 18 T  | Methyl Acetate              | 0.166 | 0.156 | 6.0    | 99    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.981 | 0.988 | -0.7   | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 0.605 | 0.483 | 20.2#  | 104   | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 0.474 | 0.483 | -1.9   | 109   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.053 | 1.091 | -3.6   | 104   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.652 | 0.667 | -2.3   | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.744 | 0.750 | -0.8   | 107   | 0.00     |
| 25 T  | 2-Butanone                  | 0.100 | 0.100 | 0.0    | 104   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.798 | 0.814 | -2.0   | 106   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.508 | 0.513 | -1.0   | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 0.256 | 0.261 | -2.0   | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.057 | 0.056 | 1.8    | 101   | 0.00     |
| 30 C  | Chloroform                  | 0.861 | 0.873 | -1.4#  | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 0.681 | 0.666 | 2.2    | 109   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.881 | 0.898 | -1.9   | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.490 | 0.505 | -3.1   | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.313 | 0.347 | -10.9  | 109   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.456 | 0.492 | -7.9   | 109   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.155 | 0.158 | -1.9   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.594 | 0.642 | -8.1   | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.537 | 0.593 | -10.4  | 105   | 0.00     |
| 40 TM | Benzene                     | 1.200 | 1.275 | -6.2   | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.096 | 0.090 | 6.3    | 86    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.423 | 0.443 | -4.7   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.311 | 0.315 | -1.3   | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.390 | 0.421 | -7.9   | 109   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.272 | 0.300 | -10.3# | 108   | 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              | 0.169 | 0.177 | -4.7  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.466 | 0.495 | -6.2  | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.161 | 0.175 | -8.7  | 110   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 1.144 | 1.288 | -12.6 | 109   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.151 | 0.159 | -5.3  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.813 | 0.877 | -7.9# | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.442 | 0.474 | -7.2  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.496 | 0.528 | -6.5  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.229 | 0.232 | -1.3  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.265 | 0.286 | -7.9  | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.379 | 0.402 | -6.1  | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.110 | 0.118 | -7.3  | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.106 | 0.114 | -7.5  | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.346 | 0.362 | -4.6  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.226 | 0.234 | -3.5  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.406 | 0.447 | -10.1 | 108   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.379 | 0.399 | -5.3  | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 0.995 | 1.048 | -5.3  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.407 | 0.421 | -3.4  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.751 | 1.902 | -8.6# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.667 | 0.711 | -6.6  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 0.621 | 0.657 | -5.8  | 106   | 0.00     |
| 70 T  | Styrene                     | 1.066 | 1.117 | -4.8  | 102   | 0.00     |
| 71 P  | Bromoform                   | 0.231 | 0.234 | -1.3  | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.349 | 3.631 | -8.4  | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 0.605 | 0.628 | -3.8  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.478 | 0.486 | -1.7  | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.352 | 0.349 | 0.9   | 99    | 0.00     |
| 77 T  | Bromobenzene                | 0.850 | 0.889 | -4.6  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 3.840 | 4.074 | -6.1  | 105   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.193 | 2.346 | -7.0  | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.892 | 3.057 | -5.7  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.166 | 0.183 | -10.2 | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.324 | 2.440 | -5.0  | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.512 | 2.646 | -5.3  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.841 | 3.021 | -6.3  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.291 | 3.559 | -8.1  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.173 | 3.424 | -7.9  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.587 | 1.652 | -4.1  | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.593 | 1.656 | -4.0  | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.800 | 3.044 | -8.7  | 106   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.627 | 0.642 | -2.4  | 104   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.366 | 1.461 | -7.0  | 107   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.100 | 0.099 | 1.0   | 103   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.067 | 1.119 | -4.9  | 103   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.663 | 0.729 | -10.0 | 108   | 0.00     |
| 95 T | Naphthalene                 | 1.675 | 1.789 | -6.8  | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.914 | 0.964 | -5.5  | 102   | 0.00     |

(#) = Out of Range

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