

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF080318\  
 Data File : VF059837.D  
 Acq On : 3 Aug 2018 14:08  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00q/5mL/MSVOA F/SOIL  
 ALS Vial : 81 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 03 14:59:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 15:23:22 2018  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.672 | 0.493 | 26.6#  | 89    | 0.00     |
| 3 P   | Chloromethane               | 0.342 | 0.307 | 10.2   | 104   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.349 | 0.322 | 7.7#   | 106   | 0.00     |
| 5 T   | Bromomethane                | 0.285 | 0.253 | 11.2   | 97    | 0.00     |
| 6 T   | Chloroethane                | 0.218 | 0.186 | 14.7   | 101   | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.934 | 0.781 | 16.4   | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 0.160 | 0.151 | 5.6    | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.489 | 0.465 | 4.9    | 98    | 0.01     |
| 10 T  | Methyl Iodide               | 0.769 | 0.711 | 7.5    | 102   | 0.01     |
| 11 T  | Tert butyl alcohol          | 0.040 | 0.042 | -5.0   | 123   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.387 | 0.358 | 7.5#   | 105   | 0.00     |
| 13 T  | Acrolein                    | 0.017 | 0.025 | -47.1# | 118   | 0.00     |
| 14 T  | Allyl chloride              | 0.618 | 0.516 | 16.5   | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.063 | 0.071 | -12.7  | 132   | 0.00     |
| 16 T  | Acetone                     | 0.162 | 0.190 | -17.3  | 122   | 0.00     |
| 17 T  | Carbon Disulfide            | 0.940 | 0.779 | 17.1   | 102   | 0.00     |
| 18 T  | Methyl Acetate              | 0.301 | 0.274 | 9.0    | 115   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.181 | 1.214 | -2.8   | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 0.453 | 0.387 | 14.6   | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.386 | 0.350 | 9.3    | 109   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.307 | 1.329 | -1.7   | 108   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.672 | 0.792 | -17.9  | 117   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.908 | 0.868 | 4.4    | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.180 | 0.197 | -9.4   | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.647 | 0.613 | 5.3    | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.486 | 0.479 | 1.4    | 103   | 0.00     |
| 28 T  | Bromochloromethane          | 0.360 | 0.356 | 1.1    | 108   | 0.00     |
| 29    | Tetrahydrofuran             | 0.069 | 0.082 | -18.8  | 126   | 0.00     |
| 30 C  | Chloroform                  | 1.282 | 1.186 | 7.5#   | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 0.491 | 0.485 | 1.2    | 114   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.994 | 0.890 | 10.5   | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.899 | 0.838 | 6.8    | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.519 | 0.493 | 5.0    | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.573 | 0.494 | 13.8   | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.288 | 0.301 | -4.5   | 119   | -0.02    |
| 38 T  | Carbon Tetrachloride        | 0.795 | 0.714 | 10.2   | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.433 | 0.510 | -17.8  | 136   | 0.00     |
| 40 TM | Benzene                     | 1.010 | 0.970 | 4.0    | 111   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.141 | 0.139 | 1.4    | 110   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.707 | 0.646 | 8.6    | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.299 | 0.319 | -6.7   | 120   | 0.00     |
| 44 TM | Trichloroethene             | 0.389 | 0.355 | 8.7    | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.267 | 0.276 | -3.4#  | 109   | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.253 | 0.248 | 2.0   | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.689 | 0.645 | 6.4   | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.225 | 0.231 | -2.7  | 109   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 164#  | 0.00     |
| 50 S  | Toluene-d8                  | 1.211 | 1.174 | 3.1   | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.227 | 0.258 | -13.7 | 118   | 0.00     |
| 52 CM | Toluene                     | 0.748 | 0.700 | 6.4#  | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.598 | 0.558 | 6.7   | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.579 | 0.579 | 0.0   | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.273 | 0.284 | -4.0  | 110   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.285 | 0.317 | -11.2 | 110   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.469 | 0.478 | -1.9  | 111   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.033 | 0.028 | 15.2  | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.182 | 0.188 | -3.3  | 111   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.483 | 0.476 | 1.4   | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.319 | 0.310 | 2.8   | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.670 | 0.617 | 7.9   | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.386 | 0.347 | 10.1  | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 1.000 | 0.983 | 1.7   | 110   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.467 | 0.442 | 5.4   | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.731 | 1.648 | 4.8#  | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.609 | 0.577 | 5.3   | 106   | 0.00     |
| 69 T  | o-Xylene                    | 0.638 | 0.607 | 4.9   | 101   | 0.00     |
| 70 T  | Styrene                     | 0.966 | 0.949 | 1.8   | 106   | 0.00     |
| 71 P  | Bromoform                   | 0.304 | 0.305 | -0.3  | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.281 | 3.251 | 0.9   | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 0.828 | 0.879 | -6.2  | 107   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.618 | 0.689 | -11.5 | 110   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.525 | 0.546 | -4.0  | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.857 | 0.826 | 3.6   | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 3.814 | 3.765 | 1.3   | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.372 | 2.314 | 2.4   | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.936 | 2.961 | -0.9  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.217 | 0.243 | -12.0 | 111   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.547 | 2.444 | 4.0   | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.945 | 2.959 | -0.5  | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.956 | 2.940 | 0.5   | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.774 | 3.749 | 0.7   | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.313 | 3.270 | 1.3   | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.633 | 1.548 | 5.2   | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.591 | 1.544 | 3.0   | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.138 | 3.184 | -1.5  | 101   | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.827 | 0.804 | 2.8  | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.568 | 1.568 | 0.0  | 106   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.151 | 0.165 | -9.3 | 103   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.228 | 1.214 | 1.1  | 98    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.820 | 0.836 | -2.0 | 99    | 0.00     |
| 95 T | Naphthalene                 | 2.156 | 2.311 | -7.2 | 103   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.192 | 1.174 | 1.5  | 94    | 0.00     |

(#) = Out of Range

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