

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW112118\  
 Data File : VW006980.D  
 Acq On : 20 Nov 2018 17:33  
 Operator : SY/AP  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ICVVW112118

Quant Time: Nov 21 08:51:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 21 03:23:02 2018  
 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.494 | 0.482 | 2.4   | 101   | 0.00     |
| 3 P   | Chloromethane               | 0.411 | 0.419 | -1.9  | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.405 | 0.418 | -3.2# | 101   | 0.00     |
| 5 T   | Bromomethane                | 0.216 | 0.229 | -6.0  | 97    | 0.00     |
| 6 T   | Chloroethane                | 0.223 | 0.221 | 0.9   | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.796 | 0.793 | 0.4   | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 0.256 | 0.233 | 9.0   | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.516 | 0.497 | 3.7   | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 0.591 | 0.619 | -4.7  | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.032 | 0.029 | 9.4   | 98    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.453 | 0.447 | 1.3#  | 103   | 0.00     |
| 13 T  | Acrolein                    | 0.033 | 0.030 | 9.1   | 100   | 0.00     |
| 14 T  | Allyl chloride              | 0.751 | 0.734 | 2.3   | 101   | 0.00     |
| 15 T  | Acrylonitrile               | 0.096 | 0.090 | 6.3   | 91    | 0.00     |
| 16 T  | Acetone                     | 0.071 | 0.066 | 7.0   | 93    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.463 | 1.457 | 0.4   | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 0.253 | 0.216 | 14.6  | 93    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.182 | 1.125 | 4.8   | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.702 | 0.522 | 25.6# | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.527 | 0.507 | 3.8   | 102   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.461 | 1.397 | 4.4   | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.776 | 0.765 | 1.4   | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.889 | 0.855 | 3.8   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.122 | 0.112 | 8.2   | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.799 | 0.809 | -1.3  | 108   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.561 | 0.538 | 4.1   | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 0.332 | 0.317 | 4.5   | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.079 | 0.072 | 8.9   | 92    | 0.00     |
| 30 C  | Chloroform                  | 0.944 | 0.880 | 6.8#  | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 0.943 | 0.909 | 3.6   | 103   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.851 | 0.855 | -0.5  | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.490 | 0.487 | 0.6   | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.282 | 0.299 | -6.0  | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.489 | 0.491 | -0.4  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.177 | 0.164 | 7.3   | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.468 | 0.479 | -2.4  | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.611 | 0.618 | -1.1  | 102   | 0.00     |
| 40 TM | Benzene                     | 1.319 | 1.311 | 0.6   | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.110 | 0.101 | 8.2   | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.383 | 0.357 | 6.8   | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.337 | 0.329 | 2.4   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.370 | 0.369 | 0.3   | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.325 | 0.321 | 1.2#  | 99    | 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.163 | 0.155 | 4.9   | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.429 | 0.418 | 2.6   | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.163 | 0.173 | -6.1  | 103   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 94    | 0.01     |
| 50 S  | Toluene-d8                  | 1.247 | 1.349 | -8.2  | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.171 | 0.165 | 3.5   | 94    | 0.00     |
| 52 CM | Toluene                     | 0.898 | 0.915 | -1.9# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.416 | 0.415 | 0.2   | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.502 | 0.497 | 1.0   | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.240 | 0.224 | 6.7   | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.278 | 0.285 | -2.5  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.401 | 0.384 | 4.2   | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.145 | 0.133 | 8.3   | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.117 | 0.119 | -1.7  | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.273 | 0.269 | 1.5   | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.219 | 0.214 | 2.3   | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.491 | 0.501 | -2.0  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.322 | 0.334 | -3.7  | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.044 | 1.072 | -2.7  | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.316 | 0.316 | 0.0   | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.917 | 1.968 | -2.7# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.752 | 0.763 | -1.5  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.709 | 0.714 | -0.7  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.129 | 1.161 | -2.8  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.149 | 0.151 | -1.3  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.886 | 4.039 | -3.9  | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 0.651 | 0.696 | -6.9  | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.517 | 0.522 | -1.0  | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.393 | 0.403 | -2.5  | 116   | 0.00     |
| 77 T  | Bromobenzene                | 0.835 | 0.854 | -2.3  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.707 | 4.875 | -3.6  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.714 | 2.773 | -2.2  | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.360 | 3.478 | -3.5  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.156 | 0.162 | -3.8  | 96    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.848 | 2.937 | -3.1  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.909 | 2.995 | -3.0  | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.348 | 3.443 | -2.8  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.110 | 4.294 | -4.5  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.626 | 3.767 | -3.9  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.704 | 1.724 | -1.2  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.699 | 1.714 | -0.9  | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.412 | 3.602 | -5.6  | 98    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.529 | 0.556 | -5.1 | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.493 | 1.520 | -1.8 | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.087 | 0.088 | -1.1 | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.985 | 0.991 | -0.6 | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.535 | 0.547 | -2.2 | 96    | 0.00     |
| 95 T | Naphthalene                 | 1.787 | 1.773 | 0.8  | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.817 | 0.821 | -0.5 | 93    | 0.00     |

(#) = Out of Range

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