

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011119\  
 Data File : VW008214.D  
 Acq On : 12 Jan 2019 01:25  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 12 03:23:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 04:40:48 2019  
 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   | 109   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.408 | 0.361 | 11.5  | 102   | 0.00     |
| 3 P   | Chloromethane               | 0.529 | 0.497 | 6.0   | 108   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.691 | 0.647 | 6.4#  | 103   | 0.00     |
| 5 T   | Bromomethane                | 0.518 | 0.517 | 0.2   | 120   | 0.00     |
| 6 T   | Chloroethane                | 0.520 | 0.443 | 14.8  | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.562 | 0.520 | 7.5   | 99    | 0.00     |
| 8 T   | Diethyl Ether               | 0.318 | 0.310 | 2.5   | 113   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.558 | 0.564 | -1.1  | 112   | 0.00     |
| 10 T  | Methyl Iodide               | 0.813 | 0.860 | -5.8  | 116   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.040 | 0.036 | 10.0  | 108   | -0.03    |
| 12 CM | 1,1-Dichloroethene          | 0.548 | 0.533 | 2.7#  | 108   | 0.00     |
| 13 T  | Acrolein                    | 0.034 | 0.039 | -14.7 | 101   | 0.00     |
| 14 T  | Allyl chloride              | 0.994 | 0.984 | 1.0   | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 0.121 | 0.127 | -5.0  | 120   | 0.00     |
| 16 T  | Acetone                     | 0.114 | 0.095 | 16.7  | 100   | -0.01    |
| 17 T  | Carbon Disulfide            | 1.710 | 1.679 | 1.8   | 105   | 0.00     |
| 18 T  | Methyl Acetate              | 0.355 | 0.398 | -12.1 | 122   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.890 | 0.910 | -2.2  | 116   | 0.00     |
| 20 T  | Methylene Chloride          | 0.640 | 0.618 | 3.4   | 120   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.595 | 0.623 | -4.7  | 116   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.896 | 1.965 | -3.6  | 116   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.996 | 1.004 | -0.8  | 113   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.105 | 1.125 | -1.8  | 115   | 0.00     |
| 25 T  | 2-Butanone                  | 0.156 | 0.152 | 2.6   | 113   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.749 | 0.685 | 8.5   | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.649 | 0.694 | -6.9  | 122   | 0.00     |
| 28 T  | Bromochloromethane          | 0.437 | 0.438 | -0.2  | 110   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.104 | 0.109 | -4.8  | 119   | 0.00     |
| 30 C  | Chloroform                  | 1.052 | 1.118 | -6.3# | 118   | 0.00     |
| 31 T  | Cyclohexane                 | 1.183 | 1.014 | 14.3  | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.915 | 0.941 | -2.8  | 113   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.562 | 0.528 | 6.0   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.292 | 0.303 | -3.8  | 113   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.515 | 0.503 | 2.3   | 110   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.206 | 0.203 | 1.5   | 112   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.471 | 0.472 | -0.2  | 114   | -0.01    |
| 39 T  | Methylcyclohexane           | 0.653 | 0.628 | 3.8   | 108   | 0.00     |
| 40 TM | Benzene                     | 1.397 | 1.461 | -4.6  | 117   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.130 | 0.130 | 0.0   | 123   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.393 | 0.404 | -2.8  | 116   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.413 | 0.407 | 1.5   | 113   | 0.00     |
| 44 TM | Trichloroethene             | 0.358 | 0.380 | -6.1  | 122   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.346 | 0.371 | -7.2# | 120   | 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              | 0.170 | 0.184 | -8.2  | 123   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.432 | 0.465 | -7.6  | 119   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.195 | 0.195 | 0.0   | 110   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.003 | 0.0   | 125   | -0.01    |
| 50 S  | Toluene-d8                  | 1.224 | 1.215 | 0.7   | 106   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.200 | 0.203 | -1.5  | 117   | 0.00     |
| 52 CM | Toluene                     | 0.892 | 0.940 | -5.4# | 115   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.449 | 0.461 | -2.7  | 111   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.533 | 0.553 | -3.8  | 114   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.239 | 0.259 | -8.4  | 123   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.296 | 0.318 | -7.4  | 117   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.437 | 0.470 | -7.6  | 121   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.153 | 0.156 | -2.0  | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.135 | 0.135 | 0.0   | 112   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.262 | 0.309 | -17.9 | 128   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.227 | 0.250 | -10.1 | 122   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.439 | 0.421 | 4.1   | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.325 | 0.353 | -8.6  | 130   | 0.00     |
| 65 PM | Chlorobenzene               | 1.059 | 1.117 | -5.5  | 121   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.345 | 0.371 | -7.5  | 123   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.938 | 1.962 | -1.2# | 114   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.740 | 0.770 | -4.1  | 117   | 0.00     |
| 69 T  | o-Xylene                    | 0.685 | 0.716 | -4.5  | 117   | 0.00     |
| 70 T  | Styrene                     | 1.073 | 1.174 | -9.4  | 119   | 0.00     |
| 71 P  | Bromoform                   | 0.154 | 0.179 | -16.2 | 131   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 110   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.925 | 3.967 | -1.1  | 117   | 0.00     |
| 74 T  | N-amyl acetate              | 0.869 | 0.830 | 4.5   | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.628 | 0.654 | -4.1  | 123   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.456 | 0.479 | -5.0  | 119   | 0.00     |
| 77 T  | Bromobenzene                | 0.829 | 0.883 | -6.5  | 128   | 0.00     |
| 78 T  | n-propylbenzene             | 4.810 | 4.785 | 0.5   | 114   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.683 | 2.692 | -0.3  | 116   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.226 | 3.339 | -3.5  | 118   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.196 | 0.185 | 5.6   | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.826 | 2.817 | 0.3   | 116   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.854 | 2.901 | -1.6  | 116   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.327 | 3.362 | -1.1  | 115   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.180 | 4.176 | 0.1   | 114   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.610 | 3.626 | -0.4  | 114   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.683 | 1.812 | -7.7  | 124   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.688 | 1.773 | -5.0  | 122   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.536 | 3.479 | 1.6   | 112   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.610 | 0.650 | -6.6  | 122   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.479 | 1.560 | -5.5  | 123   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.101 | 0.102 | -1.0  | 118   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.982 | 1.040 | -5.9  | 129   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.525 | 0.591 | -12.6 | 132   | 0.00     |
| 95 T | Naphthalene                 | 1.833 | 1.955 | -6.7  | 121   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.837 | 0.902 | -7.8  | 125   | 0.00     |

(#) = Out of Range

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