

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN033019\  
 Data File : VN054819.D  
 Acq On : 30 Mar 2019 23:04  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 31 04:46:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032919W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 30 00:48:18 2019  
 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                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 150.000 | 47.314  | 68.5# | 30    | 0.00     |
| 3 P   | Chloromethane               | 150.000 | 48.363  | 67.8# | 30    | 0.00     |
| 4 C   | Vinyl Chloride              | 150.000 | 49.468  | 67.0# | 31    | 0.00     |
| 5 T   | Bromomethane                | 150.000 | 44.681  | 70.2# | 26    | 0.00     |
| 6 T   | Chloroethane                | 150.000 | 48.838  | 67.4# | 31    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 150.000 | 50.917  | 66.1# | 32    | 0.00     |
| 8 T   | Diethyl Ether               | 150.000 | 54.249  | 63.8# | 33    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 150.000 | 49.128  | 67.2# | 31    | 0.00     |
| 10 T  | Methyl Iodide               | 150.000 | 39.881  | 73.4# | 22    | 0.00     |
| 11 T  | Tert butyl alcohol          | 750.000 | 367.456 | 51.0# | 42    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 150.000 | 52.217  | 65.2# | 33    | 0.00     |
| 13 T  | Acrolein                    | 750.000 | 288.496 | 61.5# | 31    | 0.00     |
| 14 T  | Allyl chloride              | 150.000 | 51.040  | 66.0# | 30    | 0.00     |
| 15 T  | Acrylonitrile               | 750.000 | 312.711 | 58.3# | 36    | 0.00     |
| 16 T  | Acetone                     | 750.000 | 268.039 | 64.3# | 35    | 0.00     |
| 17 T  | Carbon Disulfide            | 150.000 | 42.445  | 71.7# | 24    | 0.00     |
| 18 T  | Methyl Acetate              | 150.000 | 68.113  | 54.6# | 38    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 150.000 | 58.042  | 61.3# | 34    | 0.00     |
| 20 T  | Methylene Chloride          | 150.000 | 52.477  | 65.0# | 33    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 150.000 | 53.030  | 64.6# | 32    | 0.00     |
| 22 T  | Diisopropyl ether           | 150.000 | 56.324  | 62.5# | 33    | 0.00     |
| 23 T  | Vinyl Acetate               | 750.000 | 305.506 | 59.3# | 33    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 150.000 | 54.091  | 63.9# | 32    | 0.00     |
| 25 T  | 2-Butanone                  | 750.000 | 331.995 | 55.7# | 37    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 150.000 | 37.485  | 75.0# | 21    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 150.000 | 54.837  | 63.4# | 33    | 0.00     |
| 28 T  | Bromochloromethane          | 150.000 | 56.274  | 62.5# | 33    | 0.00     |
| 29 T  | Tetrahydrofuran             | 750.000 | 327.102 | 56.4# | 38    | 0.00     |
| 30 C  | Chloroform                  | 150.000 | 55.419  | 63.1# | 33    | 0.00     |
| 31 T  | Cyclohexane                 | 150.000 | 54.107  | 63.9# | 31    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 150.000 | 55.207  | 63.2# | 32    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 150.000 | 54.050  | 64.0# | 33    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 150.000 | 49.487  | 67.0# | 32    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 150.000 | 49.489  | 67.0# | 31    | 0.00     |
| 37 T  | Ethyl Acetate               | 150.000 | 59.685  | 60.2# | 37    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 150.000 | 49.346  | 67.1# | 31    | 0.00     |
| 39 T  | Methylcyclohexane           | 150.000 | 47.162  | 68.6# | 29    | 0.00     |
| 40 TM | Benzene                     | 150.000 | 52.654  | 64.9# | 33    | 0.00     |
| 41 T  | Methacrylonitrile           | 150.000 | 59.338  | 60.4# | 36    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 150.000 | 53.196  | 64.5# | 34    | 0.00     |
| 43 T  | Isopropyl Acetate           | 150.000 | 62.323  | 58.5# | 35    | 0.00     |
| 44 TM | Trichloroethene             | 150.000 | 50.720  | 66.2# | 32    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 150.000 | 52.027  | 65.3# | 33    | 0.00     |

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 Quant Title : SW846 8260  
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 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                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 150.000  | 53.950   | 64.0# | 34    | 0.00     |
| 47 T  | Bromodichloromethane        | 150.000  | 54.522   | 63.7# | 32    | 0.00     |
| 48 T  | Methyl methacrylate         | 150.000  | 57.956   | 61.4# | 34    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 3000.000 | 1355.566 | 54.8# | 40    | 0.00     |
| 50 S  | Toluene-d8                  | 150.000  | 49.376   | 67.1# | 31    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 750.000  | 325.699  | 56.6# | 38    | 0.00     |
| 52 CM | Toluene                     | 150.000  | 52.697   | 64.9# | 32    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 150.000  | 53.143   | 64.6# | 28    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 150.000  | 53.147   | 64.6# | 29    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 150.000  | 54.590   | 63.6# | 34    | 0.00     |
| 56 T  | Ethyl methacrylate          | 150.000  | 59.274   | 60.5# | 33    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 150.000  | 55.140   | 63.2# | 33    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 750.000  | 265.013  | 64.7# | 31    | 0.00     |
| 59 T  | 2-Hexanone                  | 750.000  | 322.854  | 57.0# | 37    | 0.00     |
| 60 T  | Dibromochloromethane        | 150.000  | 56.848   | 62.1# | 31    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 150.000  | 56.038   | 62.6# | 33    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 150.000  | 49.749   | 66.8# | 30    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 150.000  | 50.307   | 66.5# | 33    | 0.00     |
| 65 PM | Chlorobenzene               | 150.000  | 50.717   | 66.2# | 31    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 150.000  | 52.902   | 64.7# | 32    | 0.00     |
| 67 C  | Ethyl Benzene               | 150.000  | 51.059   | 66.0# | 31    | 0.00     |
| 68 T  | m/p-Xylenes                 | 300.000  | 101.446  | 66.2# | 31    | 0.00     |
| 69 T  | o-Xylene                    | 150.000  | 50.417   | 66.4# | 31    | 0.00     |
| 70 T  | Styrene                     | 150.000  | 53.138   | 64.6# | 30    | 0.00     |
| 71 P  | Bromoform                   | 150.000  | 58.391   | 61.1# | 30    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 83    | 0.00     |
| 73 T  | Isopropylbenzene            | 150.000  | 48.671   | 67.6# | 31    | 0.00     |
| 74 T  | N-amyl acetate              | 150.000  | 58.100   | 61.3# | 34    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 150.000  | 60.475   | 59.7# | 34    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 150.000  | 53.872   | 64.1# | 33    | 0.00     |
| 77 T  | Bromobenzene                | 150.000  | 50.205   | 66.5# | 31    | 0.00     |
| 78 T  | n-propylbenzene             | 150.000  | 48.811   | 67.5# | 30    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 150.000  | 48.134   | 67.9# | 30    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 150.000  | 48.016   | 68.0# | 30    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 150.000  | 50.819   | 66.1# | 25    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 150.000  | 49.185   | 67.2# | 29    | 0.00     |
| 83 T  | tert-Butylbenzene           | 150.000  | 53.673   | 64.2# | 31    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 150.000  | 50.128   | 66.6# | 30    | 0.00     |
| 85 T  | sec-Butylbenzene            | 150.000  | 48.064   | 68.0# | 30    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 150.000  | 47.523   | 68.3# | 29    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 150.000  | 49.350   | 67.1# | 29    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 150.000  | 49.026   | 67.3# | 29    | 0.00     |
| 89 T  | n-Butylbenzene              | 150.000  | 46.791   | 68.8# | 26    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|---------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 150.000 | 49.826 | 66.8# | 28    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 150.000 | 48.977 | 67.3# | 31    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 150.000 | 59.714 | 60.2# | 33    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 150.000 | 48.952 | 67.4# | 25    | 0.00     |
| 94 T | Hexachlorobutadiene         | 150.000 | 46.651 | 68.9# | 27    | 0.00     |
| 95 T | Naphthalene                 | 150.000 | 54.581 | 63.6# | 27    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 150.000 | 49.534 | 67.0# | 27    | 0.00     |

(#) = Out of Range

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