

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091119\  
 Data File : VN057923.D  
 Acq On : 11 Sep 2019 14:18  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 66 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 12 02:08:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091019W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 10 03:02:13 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 54.316  | -8.6  | 102   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.244  | 7.5   | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.971  | 10.1# | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.287  | 17.4  | 76    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.176  | 11.6  | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.886  | 10.2  | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.789  | 2.4   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.133  | 3.7   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 41.460  | 17.1  | 77    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 267.565 | -7.0  | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.476  | 7.0#  | 93    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 199.971 | 20.0  | 74    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 43.312  | 13.4  | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 259.143 | -3.7  | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 225.820 | 9.7   | 83    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.098  | 11.8  | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 55.308  | -10.6 | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.219  | -2.4  | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.271  | -4.5  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.743  | 6.5   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.915  | -1.8  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 257.131 | -2.9  | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.087  | 1.8   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 248.993 | 0.4   | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 22.827  | 54.3# | 42    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.102  | 3.8   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.867  | -1.7  | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 256.704 | -2.7  | 96    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.759  | 2.5#  | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.626  | 0.7   | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.240  | 3.5   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.338  | -4.7  | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.600  | 0.8   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 44.682  | 10.6  | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.445  | 3.1   | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.676  | 4.6   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 43.625  | 12.8  | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.371  | 5.3   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.713  | 6.6   | 90    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.377  | 3.2   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.067  | -0.1  | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.160  | 5.7   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.662  | 4.7#  | 92    | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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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              | 50.000   | 49.548   | 0.9   | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.205   | 1.6   | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.435   | 1.1   | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1024.847 | -2.5  | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.070   | -4.1  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 268.463  | -7.4  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.495   | 5.0#  | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 45.031   | 9.9   | 80    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 44.514   | 11.0  | 80    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.852   | 2.3   | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.605   | -1.2  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.578   | 0.8   | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 256.829  | -2.7  | 84    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 261.361  | -4.5  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.435   | -0.9  | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.843   | 0.3   | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.069   | 1.9   | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.475   | -3.0  | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.669   | 4.7   | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.829   | 0.3   | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.559   | 0.9#  | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.605   | 0.4   | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.099   | -0.2  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.950   | -1.9  | 91    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.196   | -2.4  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.319   | 3.4   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.266   | -0.5  | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.347   | 5.3   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.406   | 9.2   | 87    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 45.887   | 8.2   | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.264   | 1.5   | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.523   | 7.0   | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.084   | 1.8   | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 37.356   | 25.3# | 65    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.788   | 4.4   | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.680   | 4.6   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.580   | 0.8   | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.106   | 1.8   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.990   | 0.0   | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.089   | 3.8   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.663   | 6.7   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.758   | 4.5   | 86    | 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            | 50.000 | 49.648 | 0.7   | 88    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.378 | 5.2   | 90    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.892 | -5.8  | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 44.993 | 10.0  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 45.233 | 9.5   | 91    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 55.767 | -11.5 | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.302 | 1.4   | 95    | 0.00     |

(#) = Out of Range

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