

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX072419\  
 Data File : VX011055.D  
 Acq On : 24 Jul 2019 12:15  
 Operator : JC/SP  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Jul 25 03:28:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jul 19 03:27:28 2019  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0   | 107   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 18.793  | 6.0   | 96    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 17.699  | 11.5  | 90    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 17.598  | 12.0  | 92    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 20.279  | -1.4  | 93    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 18.928  | 5.4   | 99    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 18.355  | 8.2   | 97    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 19.095  | 4.5   | 101   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 19.543  | 2.3   | 104   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 18.155  | 9.2   | 96    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 17.712  | 11.4  | 103   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 18.663  | 6.7   | 98    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 83.903  | 16.1  | 87    | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 93.562  | 6.4   | 98    | 0.00     |
| 15 M | Acetone                     | 100.000 | 115.939 | -15.9 | 120   | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 15.751  | 21.2  | 87    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.696  | 6.5   | 103   | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 18.652  | 6.7   | 99    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 18.184  | 9.1   | 96    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 19.024  | 4.9   | 103   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 18.669  | 6.7   | 101   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 18.413  | 7.9   | 99    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 84.368  | 15.6  | 92    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 19.130  | 4.4   | 103   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 18.922  | 5.4   | 103   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 17.308  | 13.5  | 93    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 29.554  | 1.5   | 107   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 105   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 18.588  | 7.1   | 99    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 99.141  | 0.9   | 105   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 23.285  | -16.4 | 129   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 18.561  | 7.2   | 102   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 18.601  | 7.0   | 105   | 0.00     |
| 34 M | Benzene                     | 20.000  | 19.003  | 5.0   | 101   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.407  | 8.0   | 102   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 18.535  | 7.3   | 102   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 18.815  | 5.9   | 102   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 18.278  | 8.6   | 98    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 18.956  | 5.2   | 102   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 19.367  | 3.2   | 104   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 19.047  | 4.8   | 108   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 95.837  | 4.2   | 104   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 17.667  | 11.7  | 96    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 18.733  | 6.3   | 102   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 388.078 | 3.0   | 99    | 0.00     |

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 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|---------|--------|------|-------|----------|
| 46   | Methyl methacrylate         | 20.000  | 18.137 | 9.3  | 100   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 18.859 | 5.7  | 105   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 19.312 | 3.4  | 112   | 0.00     |
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 19.937 | 0.3  | 112   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 18.719 | 6.4  | 101   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 18.570 | 7.1  | 104   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 18.847 | 5.8  | 101   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 18.925 | 5.4  | 108   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 19.296 | 3.5  | 105   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 97.431 | 2.6  | 105   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 18.430 | 7.9  | 110   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0  | 108   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 92.915 | 7.1  | 100   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 96.774 | 3.2  | 104   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 30.164 | -0.5 | 112   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 19.322 | 3.4  | 102   | 0.00     |
| 62 M | Toluene                     | 20.000  | 18.841 | 5.8  | 101   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 29.824 | 0.6  | 105   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 19.379 | 3.1  | 105   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 19.283 | 3.6  | 107   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 18.877 | 5.6  | 102   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 37.702 | 5.7  | 100   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 18.832 | 5.8  | 102   | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.062 | 4.7  | 105   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 19.504 | 2.5  | 107   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 18.977 | 5.1  | 103   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 19.235 | 3.8  | 106   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.357 | 3.2  | 106   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 19.670 | 1.6  | 108   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 19.426 | 2.9  | 107   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.642 | 1.8  | 107   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 19.430 | 2.9  | 123   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 19.487 | 2.6  | 109   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 19.548 | 2.3  | 108   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 19.600 | 2.0  | 107   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 20.057 | -0.3 | 110   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 20.015 | -0.1 | 110   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 19.836 | 0.8  | 109   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 19.580 | 2.1  | 107   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 20.451 | -2.3 | 114   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 18.787 | 6.1  | 113   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 20.034 | -0.2 | 106   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 18.687 | 6.6  | 106   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 20.706 | -3.5 | 115   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 20.927 | -4.6 | 114   | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 91 M | Naphthalene            | 20.000 | 19.562 | 2.2  | 105   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene | 20.000 | 20.598 | -3.0 | 112   | 0.00     |

(#) = Out of Range

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