

AUBURN BROADCAST SERVICES LLC

**413 Kimberly Drive
Auburn, AL 36832
334-703-7577**

FM Emission Measurements

**FM Translators
W254AY - 98.7 MHz
W293BI - 106.7 MHz
Auburn, Alabama**

July 12, 2016

EQUIPMENT

The equipment used to take the emission measurements and the equipment necessary to generate the performance measurement graphs contained in this report were completed using an Agilent E-4401B spectrum analyzer with a variable frequency notch cavity and attenuators appropriate for the frequencies to be measured.

PROCEDURE

The spectrum analyzer was connected to power and a Bird 4275 series variable attenuator placed in line with the combiner output to the antenna. The spectrum analyzer was then powered on for ten (10) minutes to stabilize the instrument prior to taking any measurements.

The output port on the attenuator was connected to the analyzer and measurements were taken to verify the purity of the two signals at the output of the combiner. A tunable FM notch filter was available to reduce the levels of either carrier to reduce the possibility of intermod products being generated in the spectrum analyzer mixer. It was not used.

RESULTS

No spurs or mixing of the two signals was detected within the FM band. The emission performance measurements contained in this report indicate compliance with the FCC rules and regulations relating to emissions purity.

QUALIFICATIONS

The equipment is owned by and was operated by Auburn Broadcast Services LLC, Broadcast Technical Consultants, Auburn, Alabama. The system has current calibration with accuracy traceable to the NBS.

The data collection for the emission performance measurements contained in this report was performed by personnel familiar with the operation of the apparatus and FCC performance requirements for broadcast facilities.

Auburn Broadcast Services LLC has, to the best of my knowledge and belief, made every effort to collect and present accurate and complete data in this report.

Terry W. Harper
FCC License # PG-6-17008

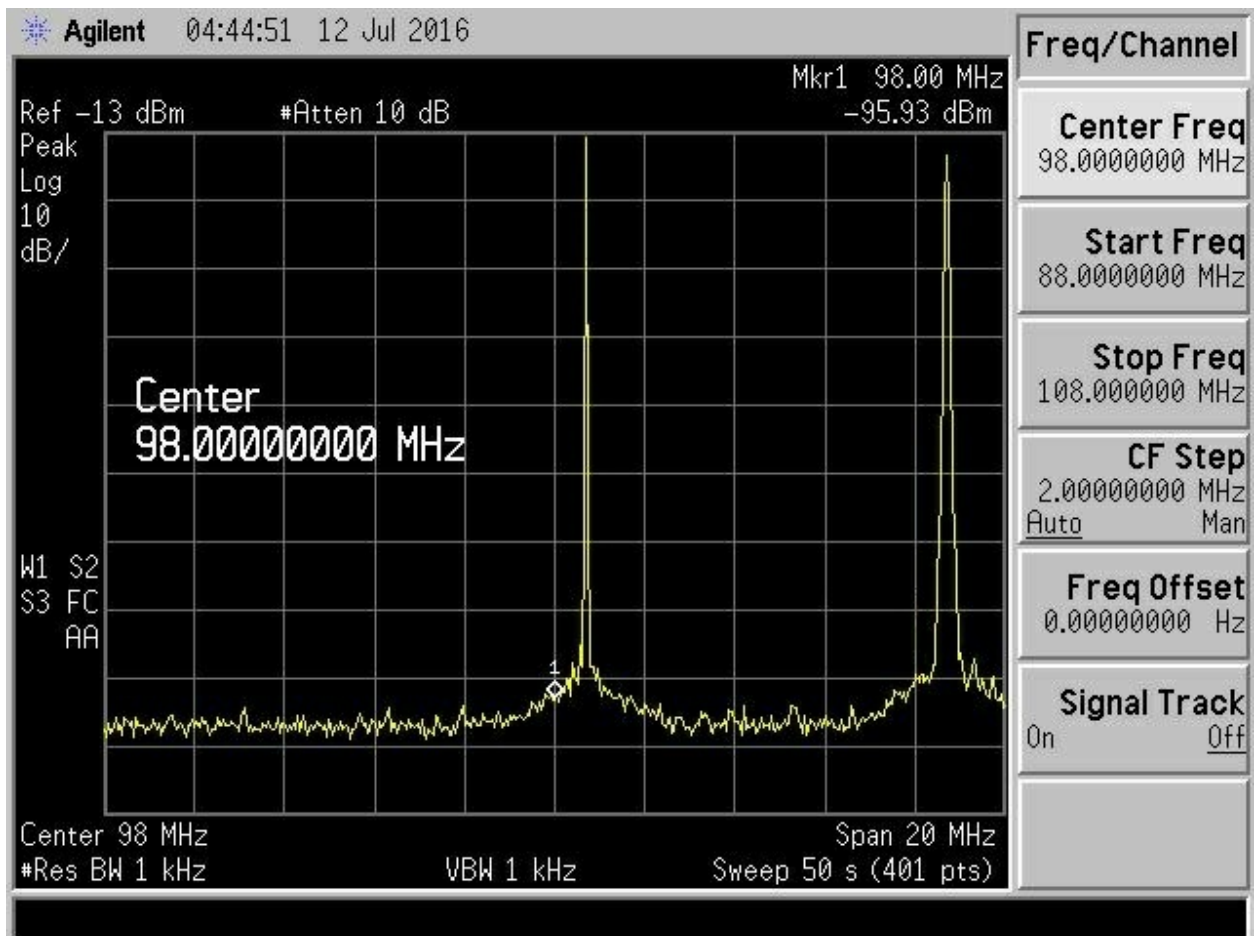
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FM Emission Measurements with WMXA 96.7 MHz and WKKR 97.7 MHz operating

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