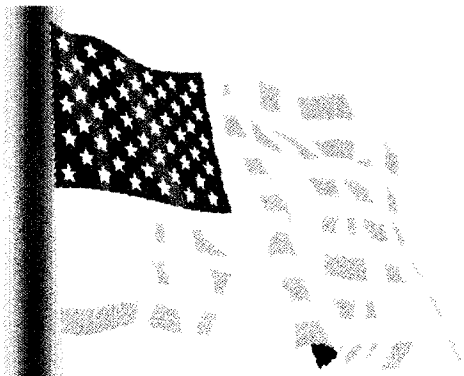
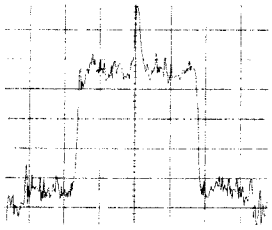


April 16, 2019

NRSC-2 Annual Spectrum Measurements

WSVS-AM

GEE Communications
Crewe, VA
FCC Facility Number 320



Benecom Associates, Ltd.
12504 Gayton Station Blvd
Richmond, VA 23233
Phone 804-241 6555

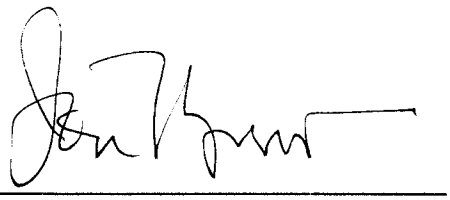
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ENGINEER'S CERTIFICATION

I, Jon A. Bennett, Owner of Benecom Associates, Ltd., do hereby certify that I am a broadcast engineer with 54 years experience in the field of Broadcast Engineering.

I hold a General Class Radiotelephone License Number PG9-5156. My qualifications are a matter of record with the Federal Communications Commission.

I certify that I am thoroughly familiar with the equipment and the measurement procedures involved in making the measurements contained herein, and that all measurements were made by me or under my direction.



Date April 16, 2019

Jon A. Bennett, CPBE
SBE Certified Professional Broadcast Engineer
Benecom Associates, Ltd.
Richmond, Virginia

ENGINEERING STATEMENT
AND
CERTIFICATION OF COMPLIANCE

WSVS

April 16, 2019

This is to certify that Benecom Associates, Ltd., has conducted AM transmission system, measurements in accordance with 47 CFR 73.44 (a) (b). The results of these measurements have been recorded in Exhibit A, attached hereto.

MEASUREMENT PROCEDURES

Measurements were taken on April 16, 2019 using an IFR Model A7550 spectrum analyzer of known accuracy and recent calibration. The IFR A7550 was operated and adjusted as outlined in the operating manual. Exhibit A is the printout of the IFR A-7550 screen using the IFR Easy-Span Waveform Transfer Utility Package.

The measurements required by 73.44(a)(b) were taken at a location of one kilometer from the WSVS-AM site at ground level, with measuring equipment as diagramed in Exhibit B. The site was carefully selected to avoid environmental conditions, which would create extraneous interference or create any errors in measurements. Measurements were taken using a peak hold duration of 10 minutes, no video filtering, and a 300-hertz resolution bandwidth. A wider resolution bandwidth was employed above 11.5 KHz to detect transient emissions. In measurement situations where there were other stations near the frequency of the measured facility appear on the spectral display, these stations are clearly identified in Exhibits A and B, Page 1, Page 2, and
Page 3 each.

Exhibit B clearly describes the measurement conditions under which each measurement was made and recorded.

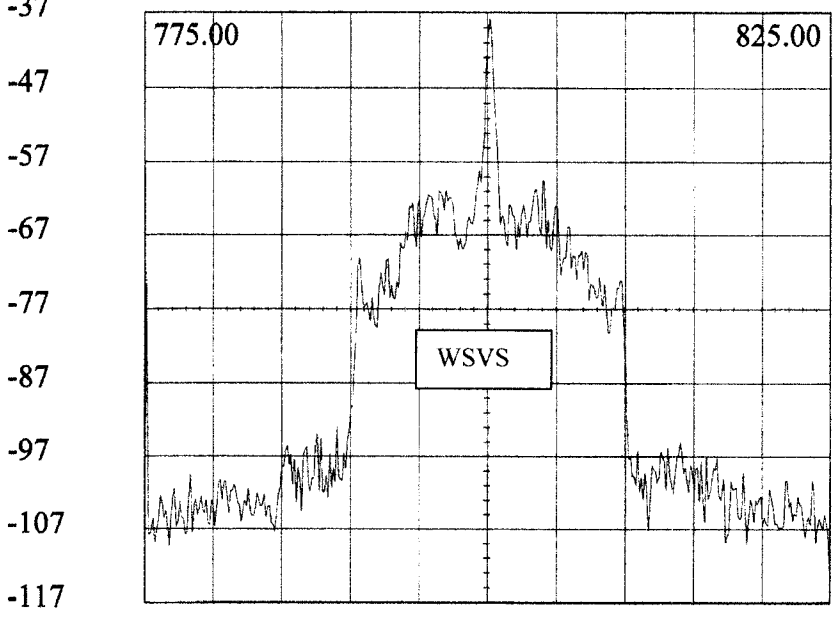
☒ The resulting measurements have determined that WSVS-AM is in compliance with the emission standards as set forth in 73.44 (a)(b)

☐ The resulting measurements have determined that WSVSAM
is NOT in compliance with the emission standards as set forth in 73.44 (a)(b

Benecom Associates, Ltd.- Richmond, VA

A-7550 Serial # 0

5.0 kHz/Div | 800.00 kHz | 300 Hz Res | wsvs-am1 | 04/16/2019 14:42:15



0 dB Attn | Gen --- dBm | 200 mSecs

13 dB IF Gain | Video Filter: 0 kHz

Peak Freq: .8002 | Peak Level: -37.83

EXHIBIT A - PAGE ONE

Emissions 10.2 - 20 KHZ removed from carrier frequency
FCC requirement -25db below unmodulated carrier level.

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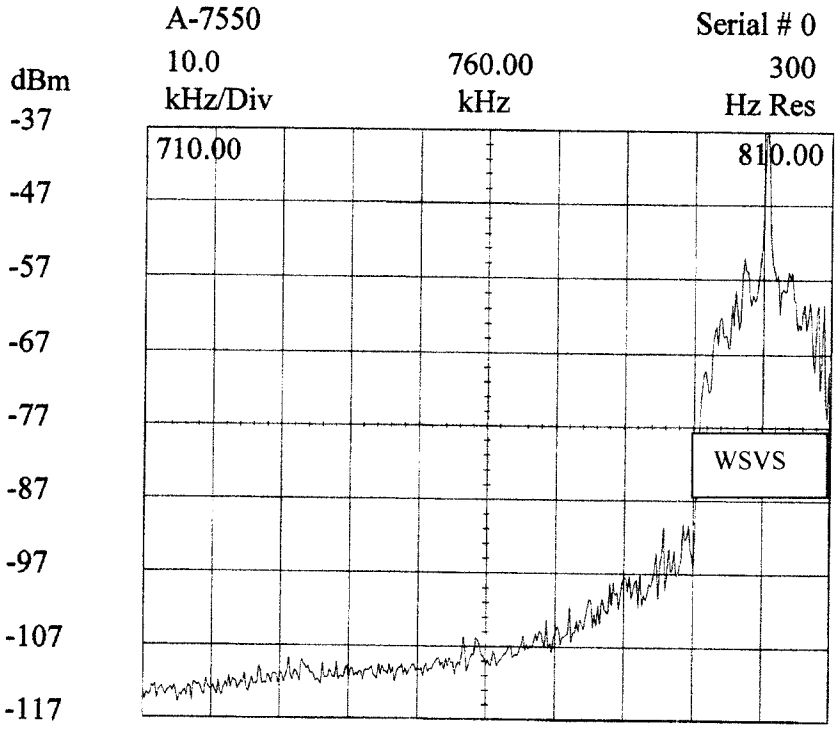


EXHIBIT A - PAGE TWO

Emissions 20 - 30 KHz removed from carrier frequency
FCC Requirement - 35db below unmodulated carrier frequency
from carrier frequency
FCC Requirement -[5+1db/KHz] below unmodulated carrier frequency

Emissions 60-75 KHz removed from carrier frequency
FCC Requirement -65db below unmodulated carrier level

Emissions 75 kHz + removed from carrier frequency
FCC Requirement -43 + 10log (Power in watts) or 80db
(Which ever is lesser) below the unmodulated carrier level

(If power is less than 158 watts, attenuation must be 65db below carrier level

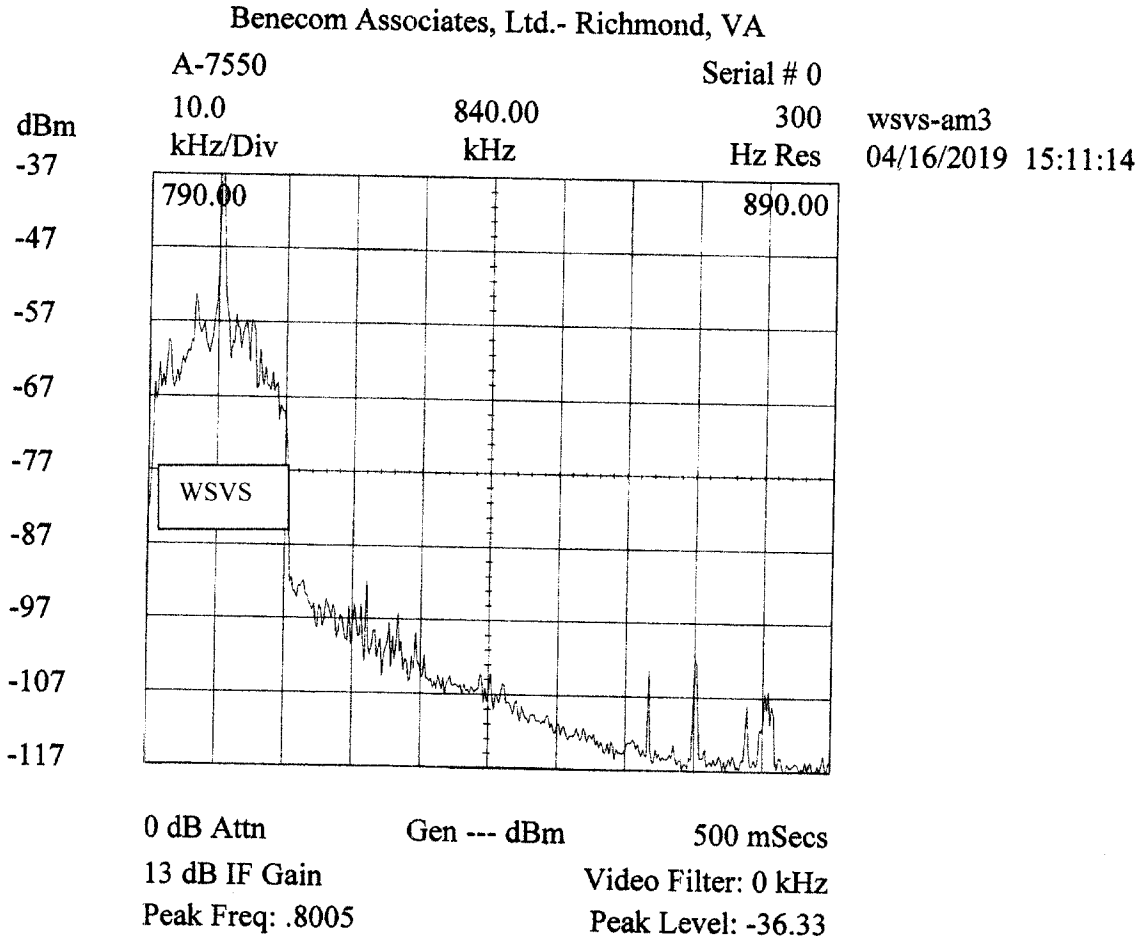


EXHIBIT A – PAGE THREE

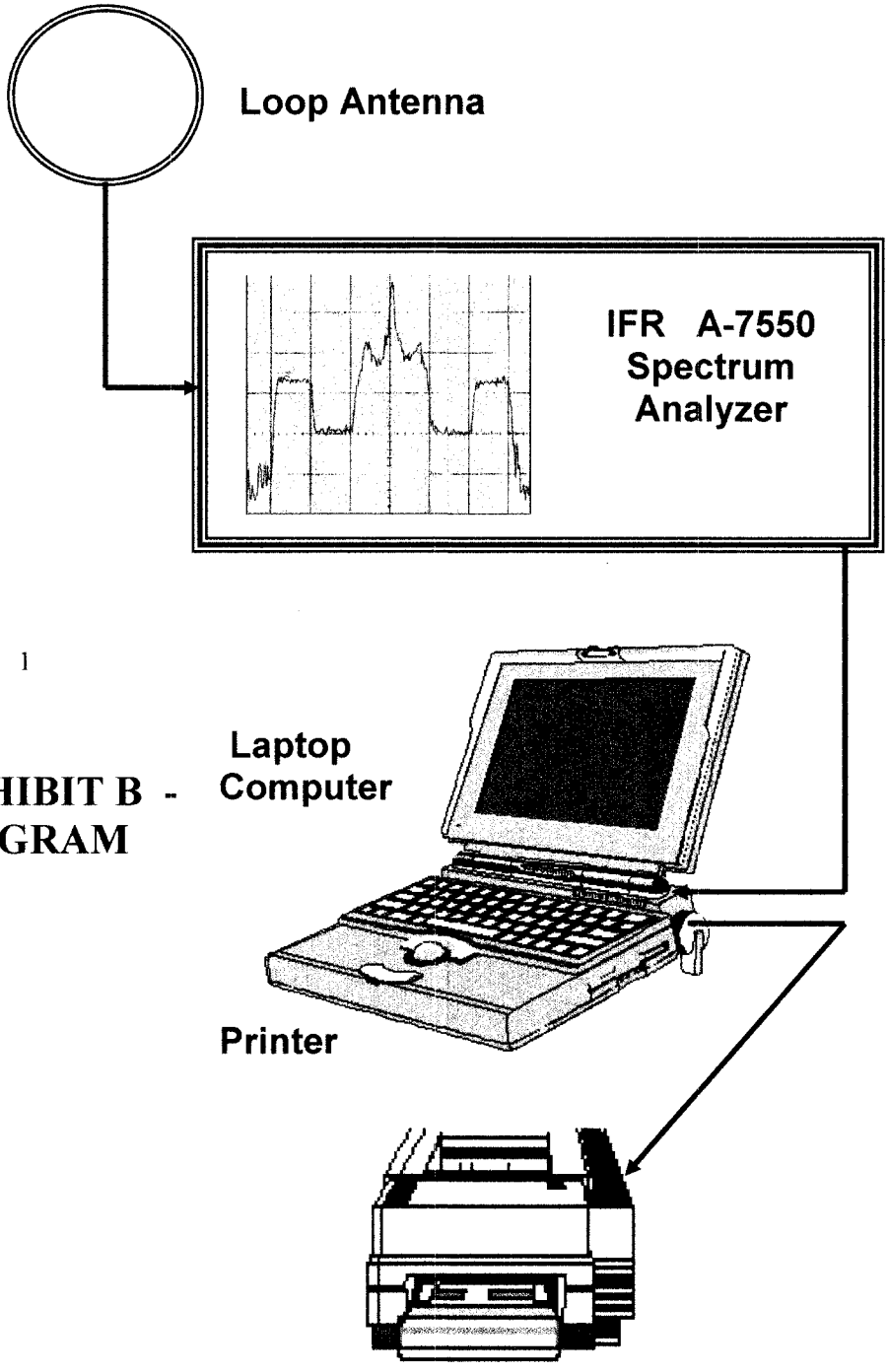
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FCC Requirement - 35db below unmodulated carrier frequency
from carrier frequency
FCC Requirement -[5+1db/KHz] below unmodulated carrier frequency

Emissions 60-75 KHz removed from carrier frequency
FCC Requirement -65db below unmodulated carrier level

Emissions 75 kHz + removed from carrier frequency
FCC Requirement -43 + 10log (Power in watts) or 80db
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If power is less than 158 watts, attenuation must be 65db below carrier le

Benecom Associates, Ltd - Richmond, VA



1

EXHIBIT B - EQUIPMENT DIAGRAM

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