KRMS-AM Performance Measurement Results
With NRSC Measurement

NRSC Measurement

In accordance with section 73.44 of the current FCC rules, the measurements were performed for Radio Station **KRMS- AM on 1/19/2013.** Both the NRSC occupied bandwidth and AM Harmonic radiation measurements were made. All measurements were conducted by Steven V. Morse, a certified Radio Broadcast Engineer with the Society of Broadcast Engineers.

The occupied bandwidth measurements were made with an IFR Com-120B digitally controlled spectrum analyzer, S# 8199 Calibrated 10/20/98. The analyzer was configured per the FCC part 73.44, with the center frequency being that of the station's carrier frequency of **1150 Khz**. The antenna was a "Scott LP-3" standard H-Field loop Antenna hooked directly to the analyzer. The measurement was made at approximately one kilometer from the station's transmitter site. Measurement was made with normal programming being broadcast at a daytime power level of **1.0** Kw non-directional and again with your normal Nighttime power of **55** watts non-directional. The Com-120B was configured to measure and store the highest level received during any measurement period. The average stored data time for each measurement was about 12 minutes.

Analyzer screen data is included with this report.

HARMONICS

Harmonic radiation measurements were made with a Potomac FIM 41 field intensity meter S#445

2nd Harmonic -84db
3rd Harmonic -86db

I hereby state that I have conducted the measurements described above, and that to the best of my knowledge, I have performed all measurements in a manner acceptable to the Federal Communications Commission.

KRMS- AM is found to be **In compliance** with both the NRSC occupied bandwidth and Harmonic radiation limitations.

Steven V. Morse

Equipment used for measurements:

Spectrum Analyzer
IFR Com-120b
S# 50008199 Calibration Date 7/98

Field Intensity Meter
Potomac Instruments FIM-41
S# 445 Calibration Date 9/94

Antenna
Scott LP-3 Loop Antenna

MEASUREMENT DATE: **1/19/13**
STATION: **KRMS- AM**
FREQUENCY: **1150 Khz**
POWER: **1000 Watts day / 55 Watts Night**

OCCUPIED BANDWIDTH
KRMS *meets* the NRSC-2 requirements. See attached spectrum analyzer prints.

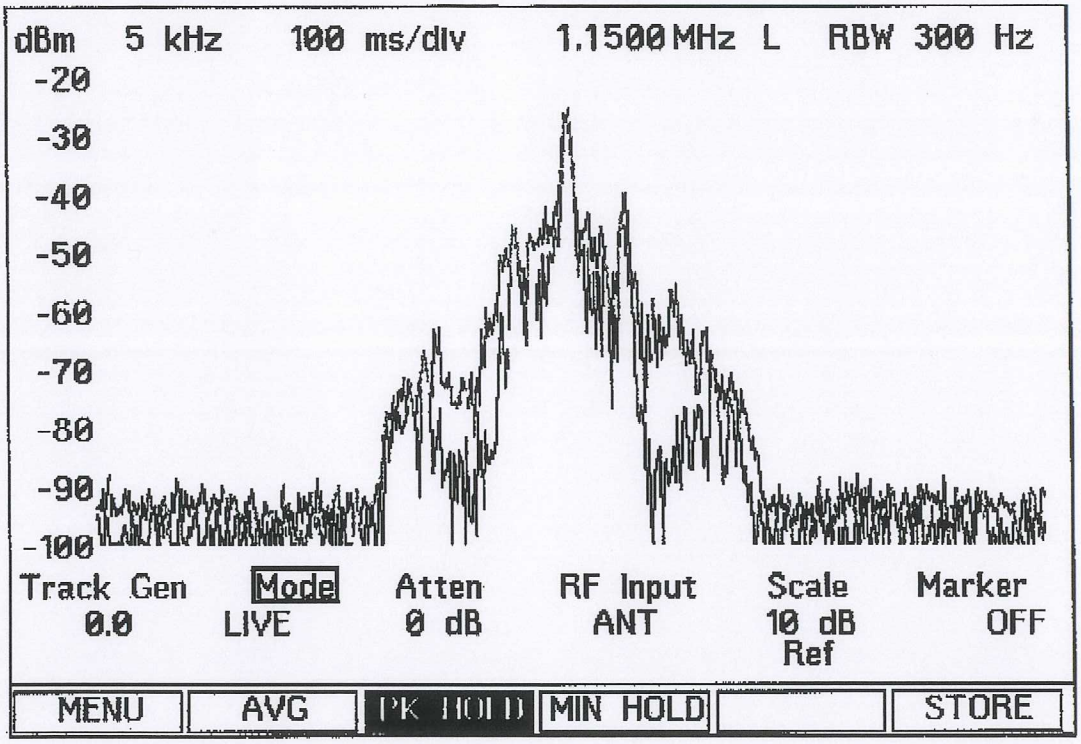
Spurious Emmisions:
None were detected on the analyzer during the measurement period.

Frequency Measurement of Main Carrier:

1,149,998 Hz or **-2.0 Hz** FCC Tolerance Allowed: +/- 20 hz

NRSC Measurement 1 - KRMS 1150 Khz 1/19/13

Daytime Power of 1000 watts

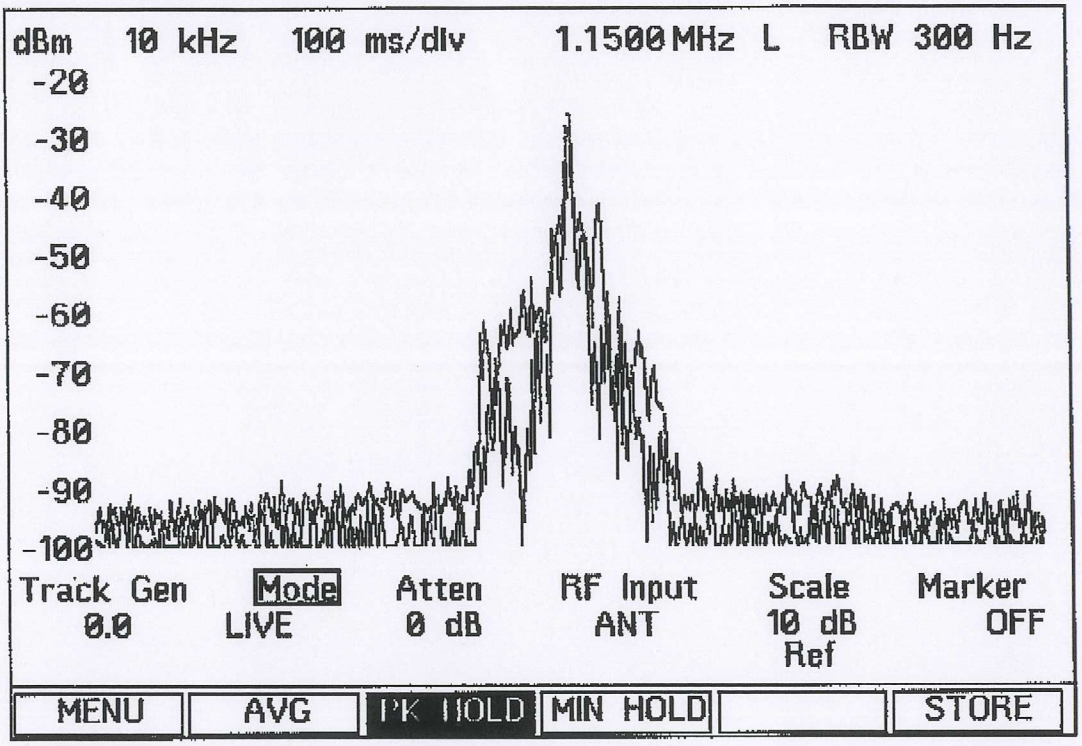


IFR COM 120B parameters setup:

A) 300 Hz resolution bandwidth
B) 5 Khz Horizontal division
C) 10 db / Vertical division
D) Reference: Carrier peak @ -20 dbm
E) Peak Hold: 12 Minute duration minimum
F) No video filter

NRSC Measurement 2 - KRMS 1150 Khz 1/19/13

Daytime Power of 1000 watts

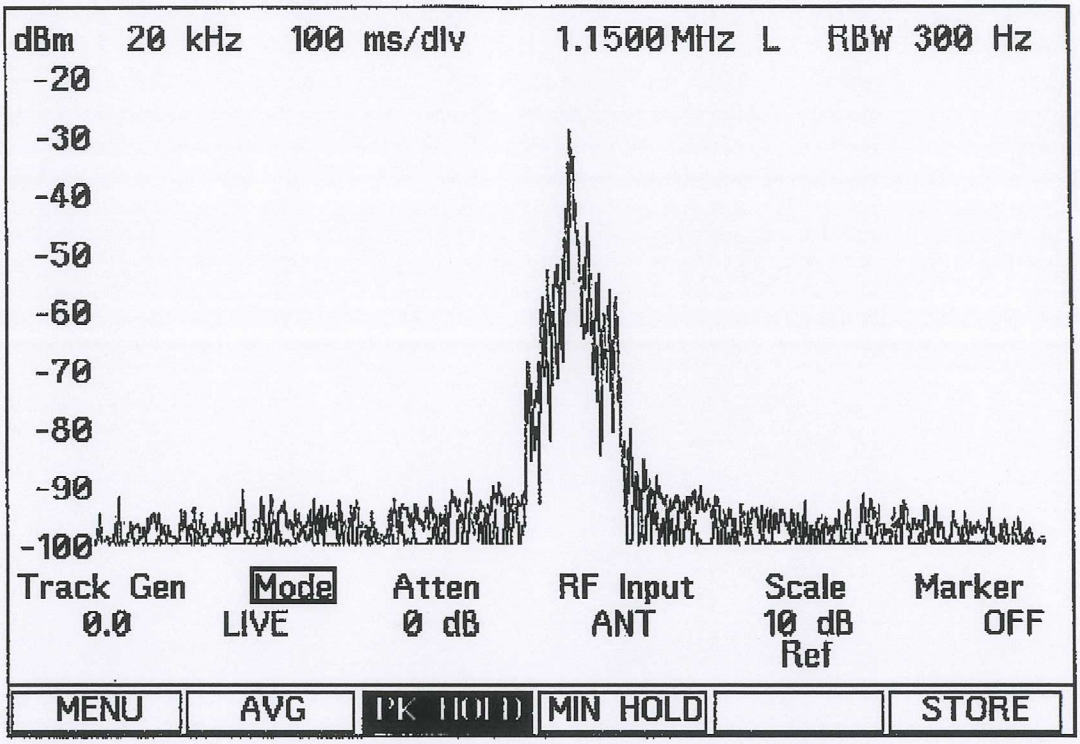


IFR COM 120B parameters setup:

A) 300 Hz resolution bandwidth
B) 10 Khz Horizontal division
C) 10 db / Vertical division
D) Reference: Carrier peak @ -20 dbm
E) Peak Hold: 12 Minute duration minimum
F) No video filter

NRSC Measurement 3 - KRMS 1150 Khz 1/19/13

Daytime Power of 1000 watts

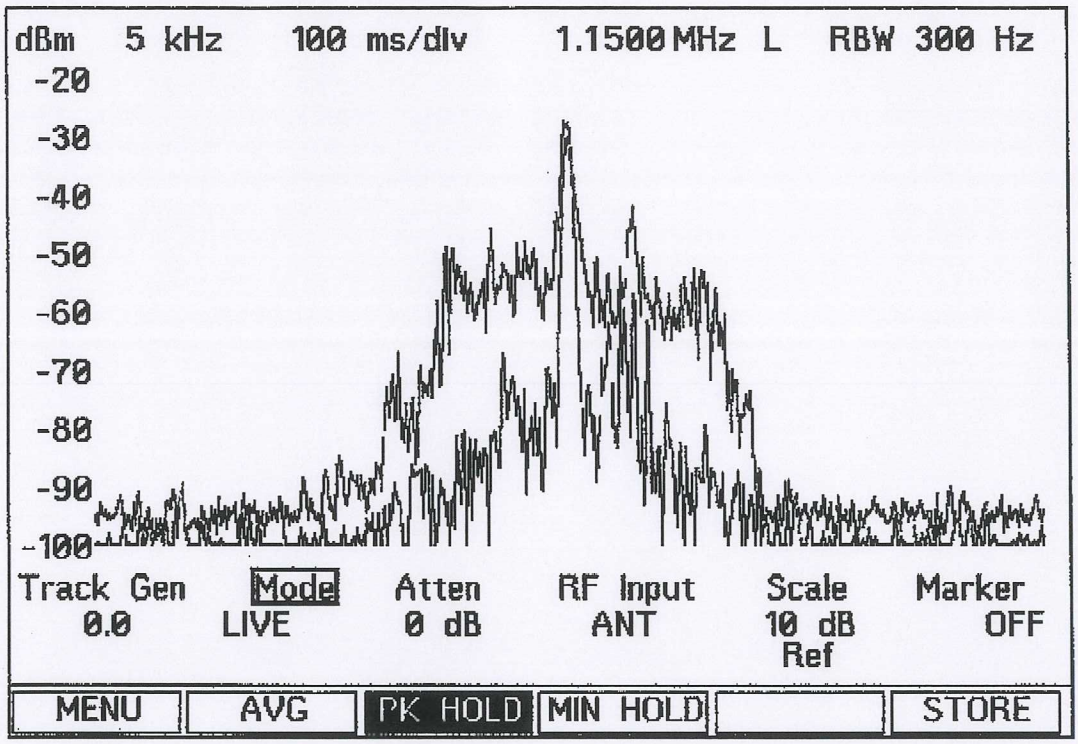


IFR COM 120B parameters setup:

A) 300 Hz resolution bandwidth
B) 20 Khz Horizontal division
C) 10 db / Vertical division
D) Reference: Carrier peak @ -20 dbm
E) Peak Hold: 12 Minute duration minimum
F) No video filter

NRSC Measurement 4 - KRMS 1150 Khz 1/19/13

Nighttime Power of 55 watts

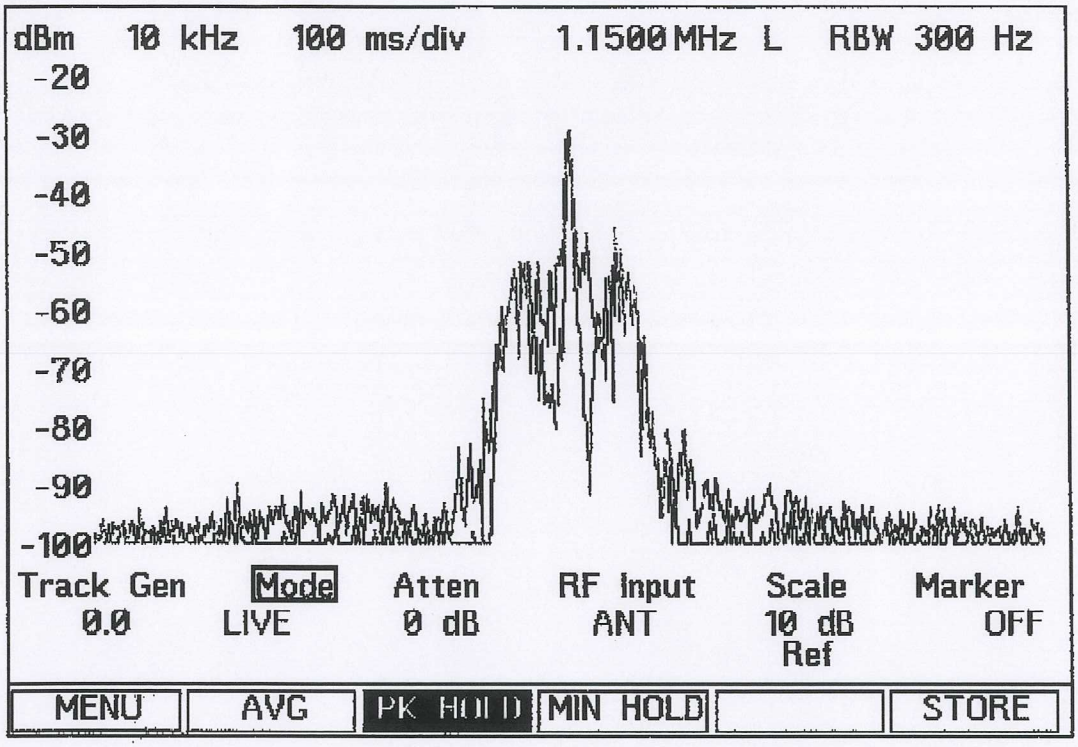


IFR COM 120B parameters setup:

A) 300 Hz resolution bandwidth
B) 5 Khz Horizontal division
C) 10 db / Vertical division
D) Reference: Carrier peak @ -20 dbm
E) Peak Hold: 12 Minute duration minimum
F) No video filter

NRSC Measurement 5 - KRMS 1150 Khz 1/19/13

Nighttime Power of 55 watts

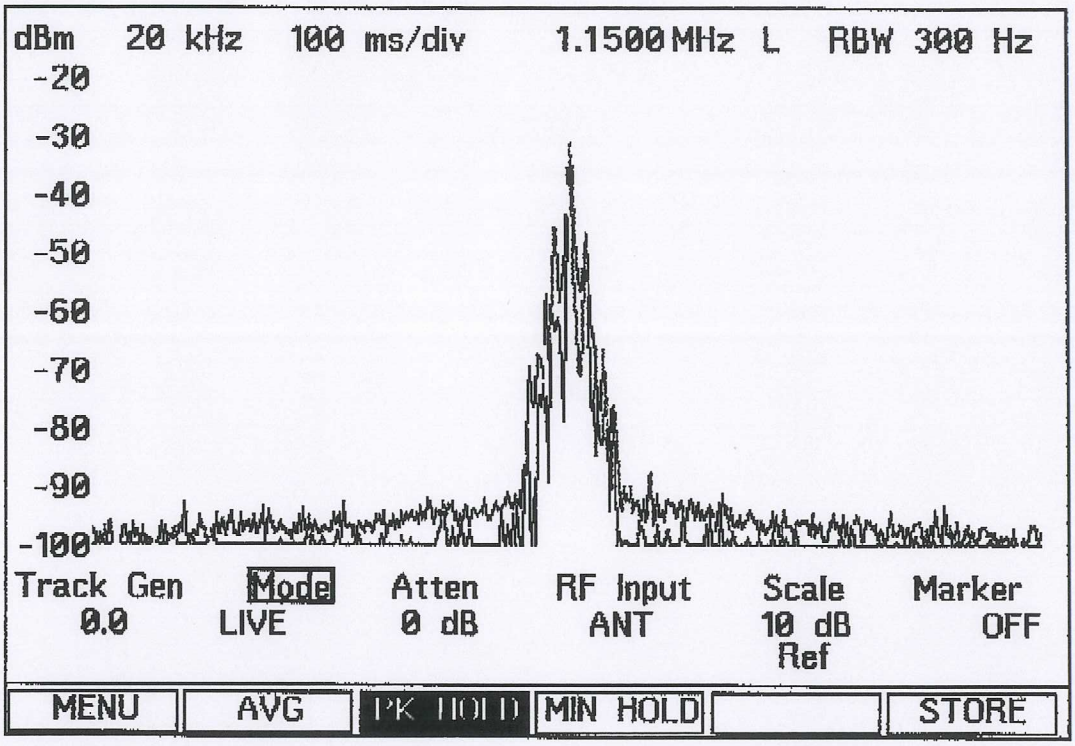


IFR COM 120B parameters setup:

A) 300 Hz resolution bandwidth
B) 10 Khz Horizontal division
C) 10 db / Vertical division
D) Reference: Carrier peak @ -20 dbm
E) Peak Hold: 12 Minute duration minimum
F) No video filter

NRSC Measurement 6 - KRMS 1150 Khz 1/19/13

Nighttime Power of 55 watts



IFR COM 120B parameters setup:

A) 300 Hz resolution bandwidth
B) 20 Khz Horizontal division
C) 10 db / Vertical division
D) Reference: Carrier peak @ -20 dbm
E) Peak Hold: 12 Minute duration minimum
F) No video filter