

Annual KQIS-AM NRSC-2
Bandwidth Compliance,
Harmonics and Spurious
Emissions Measurements and
Observations Report

Measurements Performed by
Eric Morris
on
September 14, 2017

Test Methodology

NRSC measurements were made with a Spectrum Analyzer as prescribed by FCC rules 73.1590 and 73.44. Measurements were taken at full operating power with normal broadcast programming. Harmonics were measured with a Spectrum Analyzer and corrected by the calibration factor data supplied with the Scott Antenna. A tunable notch filter was used to attenuate the fundamental. A communications receiver was used to monitor activity of spurious emissions. The receiver continuously tunes AM broadcast through 12 megahertz.

Equipment Used

Spectrum Analyzer:
Anritzu MS2721A

Antenna:
Chris Scott LP-3 Shielded Loop Antenna

Multi-Band Communication Receiver

Station

Call Sign: KQIS-AM
City of License: Bethel Heights, Arkansas
Frequency: 1340 Khz
Antenna Mode: ND
Power: 1000 Watts
Date Measured: 9/14/2017
Location: Approximately 143m S of antenna bearing 187°.

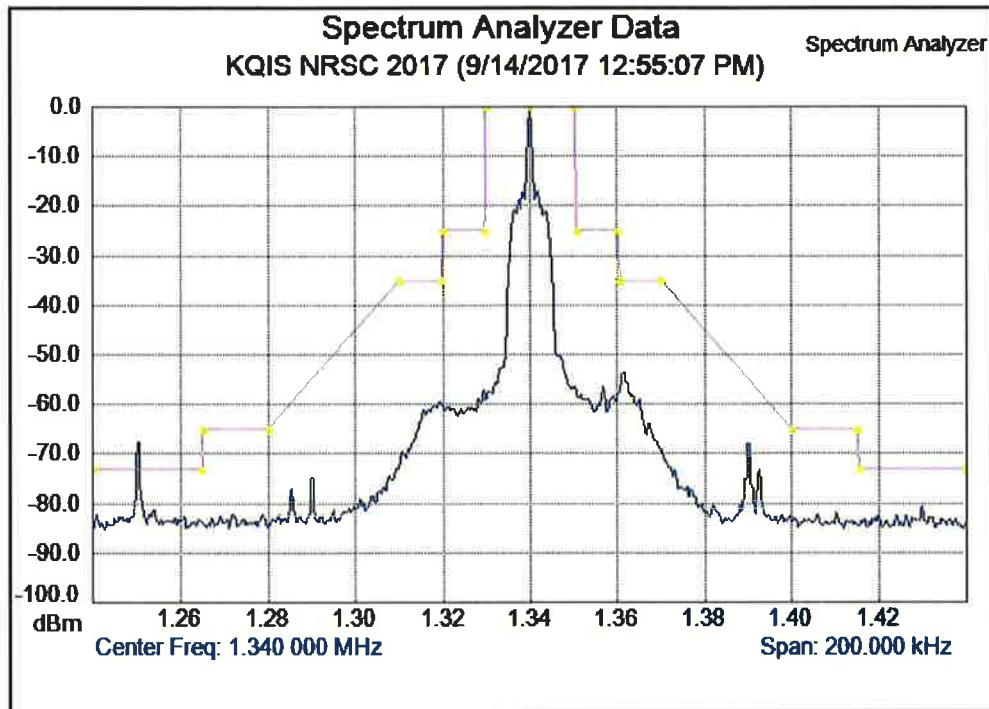
Harmonic and Spurious Emission Measurements and Observations

Harmonics are required to be 73dB below the carrier level.

Second Harmonic: 2680 Khz 79dB below the carrier level
Third Harmonic: 4020 Khz 75dB below the carrier level

No spurious emissions observed through 12 Mhz on a continuous tune communications receiver.

NRSC Measurement



Measurement Parameters			
Trace Mode	Max Hold		
Trace Mode	Max Hold	Preamp	OFF
Min Sweep Time	5E-05 S	Reference Level Offset	-30.501 dB
Input Attenuation	10.0 dB	RBW	300.0 Hz
VBW	30.0 Hz	Detection	Peak
Center Frequency	1.340 000 MHz	Start Frequency	1.240 000 MHz
Stop Frequency	1.440 000 MHz	Frequency Span	200.000 000 kHz
Reference Level	-30.500 dBm	Scale	10.0 dB/div
Device Information			
Serial Number	648140	Base Ver.	V1.78
App Ver.	V1.79	Date	9/14/2017 12:55:07 PM
Device Name			

The preceding Spectrum Analyzer Data shows the full NRSC mask the only excursion above the mask is a known carrier on 1250Khz.

Qualifications of Engineer

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Eric Morris has served as a broadcast engineer for more than 27 years and holds a General Radiotelephone Operator License from the FCC and has been recognized as a Certified Professional Broadcast Engineer by the Society of Broadcast Engineers.

Eric Morris serves as the Chief Engineer or primary contract engineer for more than 12 radio stations in Arkansas and Oklahoma.

I hereby certify that the information contained in this report is true and accurate to the best of my ability.



9-14-17

Eric Morris

Date