

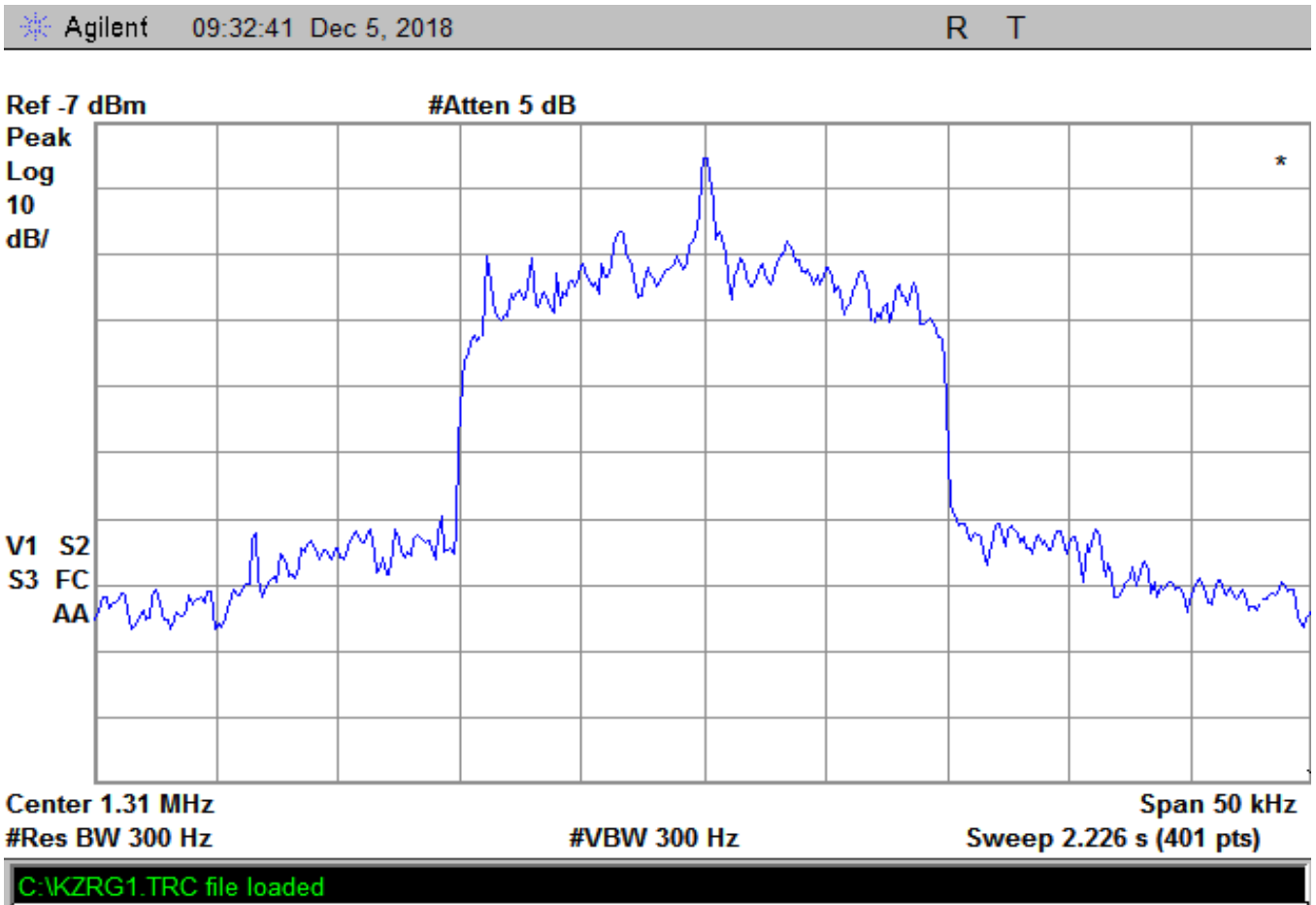
NRSC Spectrum Measurements (page one)

Station: KZRG Joplin, MO Frequency: 1310 kHz Date: 12/05/18

Transmitter Type: Broadcast Electronics AM-6a Test Equipment: Agilent E4402b Spectrum

Engineer: Dave Obergoenner

Spectrum + / - 25 kHz:

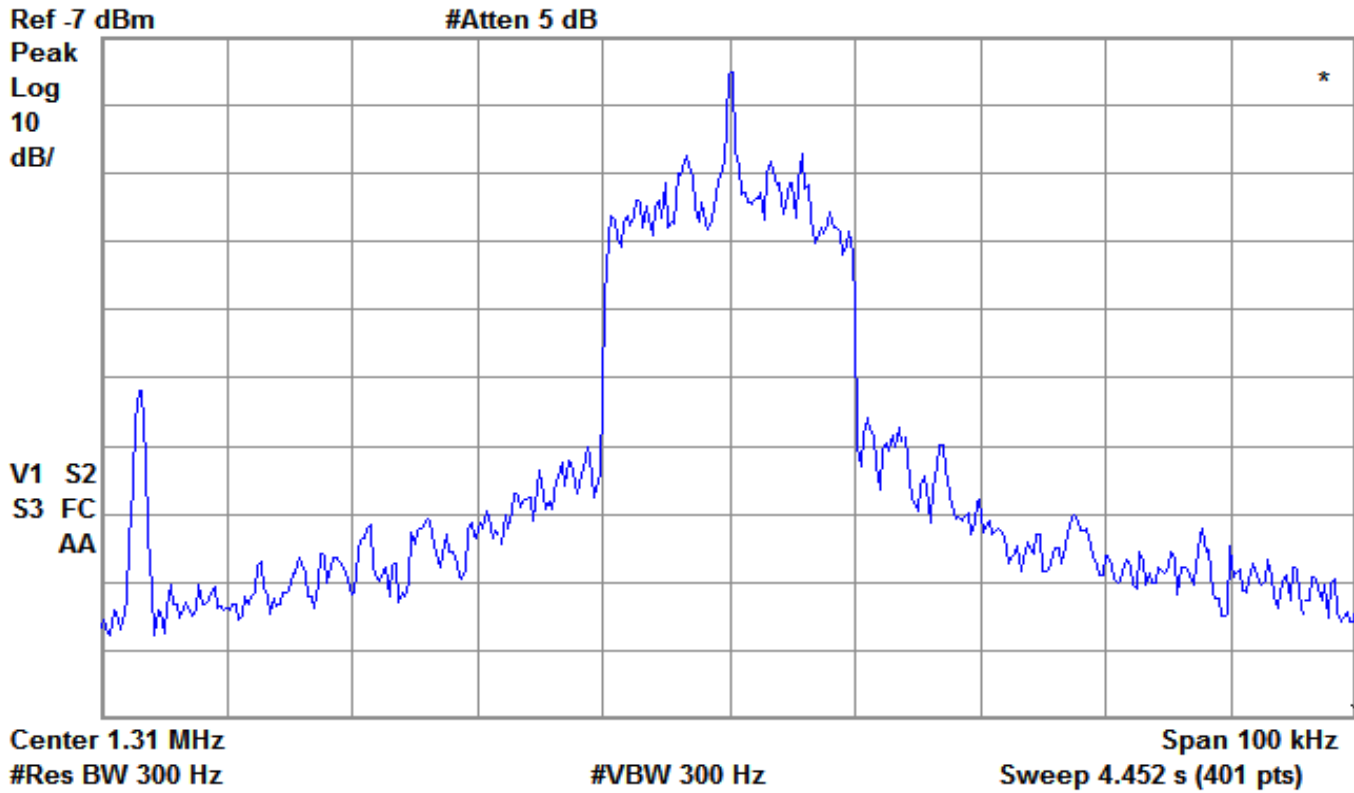


NRSC Spectrum Measurements (page two)

Station: KZRG Frequency: 1310 kHz Date: 12/05/18

Spectrum + / - 50 kHz:

Agilent 09:34:55 Dec 5, 2018 R T



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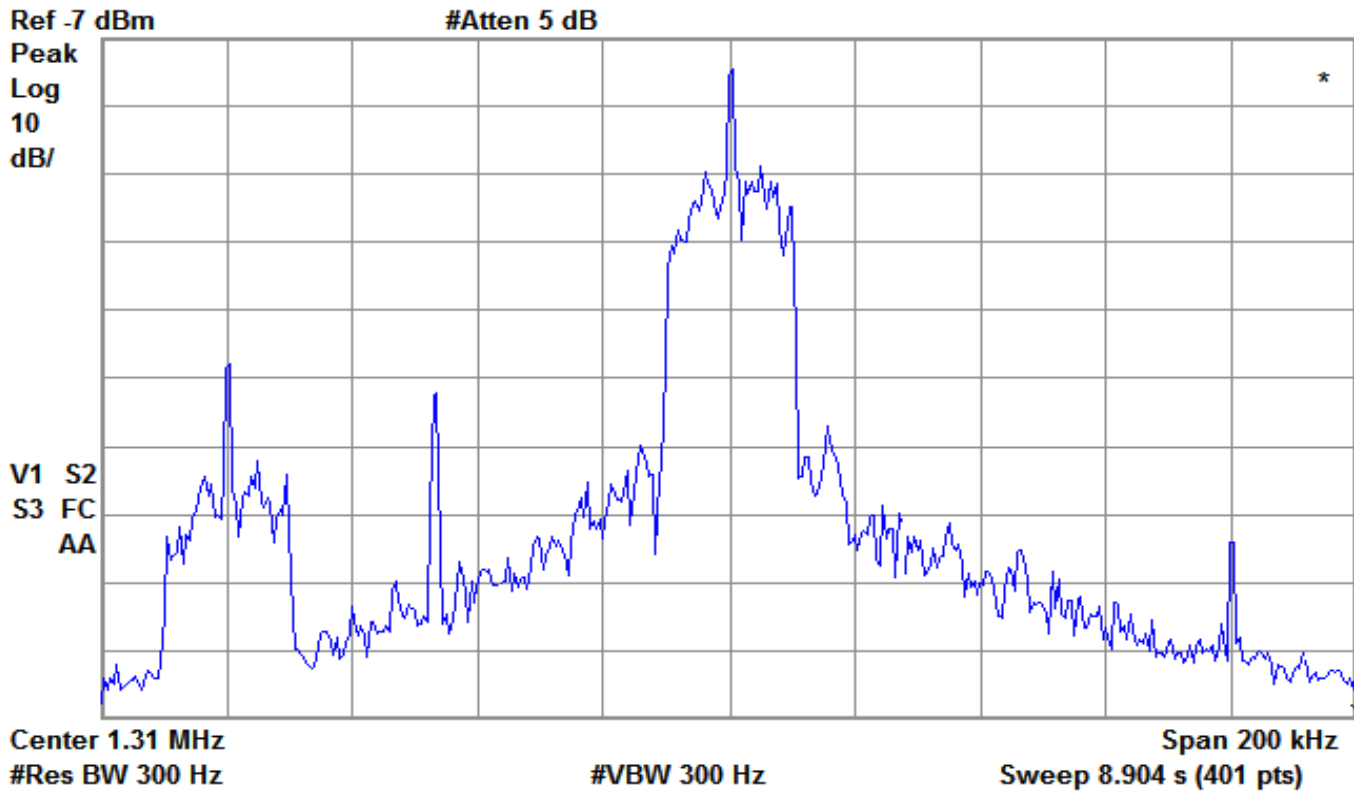
Note: The peak at -47khz was verified not to be coming from the KZRG transmitter

NRSC Spectrum Measurements (page three)

Station: KZRG Frequency: 1310 kHz Date: 12/05/18

Spectrum + / - 100 kHz:

Agilent 09:38:05 Dec 5, 2018 R T



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Note: The peak at -47kHz was verified not to be coming from the KZRG transmitter

Note: The peak at -80kHz is 1230 KZYM. The peak at +80kHz is another AM signal

NRSC Spectrum Measurements (page four)

Station: KZRG Frequency: 1310 kHz Date: 12/05/18

Frequency verification:

The station was found to be within the FCC frequency tolerance of +/- 20 Hz

Modulation verification:

Negative Modulation Peaks were in excess of 90% and not exceeding 99%.
Positive Modulation Peaks did not exceed 125%.

Harmonic verification:

Harmonics were measured to the fifth, and found to be below FCC limits.

Spectrum verification:

All spectrum occupancy was found to be within FCC NRSC limits.

Measurement Engineer:

Dave Obergoenner