

TYPE OF EXHIBIT: OCCUPIED BANDWIDTH

FCC PART: 95.635(b)

MANUFACTURER: RITRON, Inc.
505 West Carmel Drive
Carmel, IN 46032

MODEL: RLR-460

TYPE OF UNIT: UHF FM Repeater

FCC ID: AIERIT15-460

DATE: June 11, 2003

PROCEDURE:

1. The RLR-460 was aligned for transmitter operation on 457.1125 MHz at 5 watts per the tune-up procedure outlined in the Maintenance manual. The transmitter was modulated with a 2500 Hz tone at a level 16 dB greater than that required to produce 50% maximum deviation at the modulation frequency of maximum deviation. The maximum deviation was set for +/- 4.70 kHz.
2. The RF output was connected to an HP 8560E spectrum analyzer through a 30 dB, 25 watt, 50 ohm RF attenuator. The center frequency of the spectrum analyzer was set to the transmitter frequency. The sweep span was set for 100 kHz and the resolution and video bandwidth set for 100 kHz. The detector was set for peak hold mode.
3. The RLR-460 transmitter was keyed and the reference level for the spectrum analyzer set to the maximum level of the RF input signal. The resolution bandwidth and video bandwidth were set to 300 Hz and the results plotted along with emission mask 95.635(b)(1), (3), (7). The frequency span was increased to 100 kHz and the spectrum was examined beyond that visible at the 50 kHz span.

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RESULTS:

