

TYPE OF EXHIBIT: CLIPPER FILTER RESPONSE

FCC PART: 2.1047(a)

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 2, 2003

PROCEDURE:

1. The first resistor in the low-pass filter following the clipper, R349 was removed and replaced with a 100 uF electrolytic capacitor with the positive end connected to the input of the clipper and the negative end connected to the audio generator output of an HP 8920 RF Test Set. This allows a direct input to the clipper. The generator level was set to a value just below that which would cause clipping in the clipper filter.
2. The output of the last modulation clipper filter stage, U305-D, pin 14 was connected to the audio input of the HP 8920. Audio filters inside the HP 8920 were set to be off to prevent the filtering inside the instrument from affecting the test results. The audio generator was set for a frequency of 1 kHz. The level of the signal out of the clipper filter was noted and set as a 0 dB reference. The audio generator frequency was swept from 100 Hz to 100 kHz and the response noted and plotted.

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RESULTS:

Clipper Filter Response

