

To: Bill Graff
From: Greg Snyder
Date: 3/27/01
Reference: FCC ID: M7G-HUHF800-40

- 1.) All amplifiers will need the three tone intermod test. This has been FCC policy for years.
- R. This unit is only used as a single channel amplifier and therefore the IM test is not required. See e-mail excerpt from Frank Coperich below:

From: Frank Coperich [mailto:FCOPERICH@fcc.gov]
Sent: Wednesday, March 21, 2001 11:08 AM
To: gregs@wll.com
Cc: Raymond Laforge
Subject: Re: Question on Amplifier Testing

The (three tone) IM test does not apply to single channel amplifiers.

- 2.) Transmitter radiated spurious must be done using the substitution method as described in TIA/EIA 603, and not just a field strength measurement converted to ERP.
- R. Radiated spurious emissions have been measured using the signal substitution method. See revised report dated 3/27/01.
- 3.) The measured power output on the 731 does not seem to track with the power output listed in 3.1. Voltage vs. power is not necessarily a concern, therefore testing at anything other than STV (Standard Test Voltage) is confusing. Is this variation in power due to the characteristics of the exciter or the amp? A table including the output power of the exciter feeding the amp on this table is helpful.
- R. The output power was re-measured with and a new data table has been inserted in the revised report dated 3/27/01. The input signal was also verified to be at a level of 2 watts for each frequency.
- 4.) It is useful to include unmodulated plots with all Occupied Bandwidths. Ideally, unmodulated plots would always be set to the top of the reference level before modulation applied. As a bonus, if the cable and attenuator loss are placed into the spectrum analyzer offset, then Reference Level would equal power output in dBm.
- R. Future submissions will include the unmodulated signal with the Occupied Bandwidth plots.
- 5.) No RF exposure information is included. There are no instructions as to where this device could be installed. Therefore, it cannot even be identified properly as either Fixed or Mobile. Please address.
- R. The amplifier is used as fixed basestation applications.