FCC ID: YK7085008701CXXXM
IC ID:
CT Project: TCB-p1070009

From: Chris Harvey

Date: August 13, 2010

The Form 731 submitted listed the incorrect frequencies for this device, which should be 851 – 870 MHz

CT – The Form 731 has been revised and uploaded

1. I have removed the 1 ppm from the Tolerance of the check sheet Form 731 technical parameters and indicated AMP since this is a Booster and has no Frequency Translation (from verbal explanation) Please confirm that there is no frequency translation for both Part 22 and Part 90 operations. It might be a good idea to change the submitted Form 731's even though they do not get uploaded to FCC.

CT – The Form 731 has had the Frequency Translation removed for the Part 90

2. The User's Manual states that there is Frequency Translation and multi-channel, channel bandwidth adaptation operation for this device. If this device actually does not have translation of frequency or multi-channel operation then a supplemental document explaining the Technical parameters of this particular unit and the fact the Users do not have the ability to change these parameters must be submitted.

CT - CT – The User's Manual has been revised and uploaded.

3. Spurious Emissions was only performed using an FM modulation, but this device is being requested to operate in 11 different modulations, including digital. The FCC Booster/Amplifier guidance requires multiple modulations to be tested for Conducted Spurious emissions. Please include this additional data in the test report.

CT – QPSK modulation data has been added. All QPSK signaling is identical from a vector signal analysis perspective therefore only a single spurious emissions test is required to verify that all QPSK modulation schemes meet the spurious emission requirements

4. The Manual indicates that this device can be used for 12.5 or 25 kHz channels, but testing does not address this. Please explain this operation and how it complies with the FCC requirements.

CT – Testing or all bandwidths is not necessary, as the product does not vary the modulation. Whatever modulation type is received is amplified and transmitted with no additional overhead or data reprocessing therefore it is not bandwidth dependent. Only the widest bandwidth needs to be tested, as this is the worst-case scenario for ensuring operation within the band.

5. Please explain how this single device is configured to be a 5W booster when used in a Part 90 station and a 23.6W booster when used in a Part 22 station.

CT – There is a software selection that forces the unit into a specific mode of operation depending upon the license issued. When used under a part 90 license the unit is limited to 5W with no frequency translation. For part 22 operations the EUT can operate at a higher power with frequency translation. This is indicated in the revised manual.

Response by: John Erhard/Karen Springer

Submitted by: Karen Springer

Date: August 18, 2010