

Mr. Andy Leimer
FCC Application Processing Branch

Re: PYC18-3800
Correspondence reference number: 22480

Dear Mr. Leimer,

Please find attached the additional information requested in the above referenced correspondence. The reply to each action item is listed below.

- 1) The application lists the entire band. What are the lowest and highest carrier frequencies for this device.

The lowest carrier frequency is 18,930 MHz and the highest carrier frequency is 19,690.

- 2) The occupied BW for the middle channel submitted is for 20 MHz Occupied BW. Part 101.109 lists 2 MHz Occupied BW for 18.14 - 18.142 MHz and 6 MHz for 18.14 - 18.142 MHz. Does this device operate within these bands? If so, are there any provisions for operating at these reduced Occupied BWs? Submit data as necessary.

This device will only operate in bands specified for 20MHz BW or greater. Specifically, the device will operate in the following bands: 18,930 – 19,150 MHz and 19,470-19,690.

- 3) The data was measured at the mid-band frequency. Submit conducted power for the low and high frequencies.

The output power of this device will range in power depending upon the application, customer budget, antenna sizes and developments in technology. The output power will never exceed the maximum allowable as specified by part CFR47 101.113. The typical unit will have an output power of +10 dBm. After a unit is set to the desired frequency, using a fixed source, the output power is adjusted to +10dBm.

Because our units do not incorporate programmable synthesizers (too noisy) and the output power is always set for the specific application/frequency, number three above may not be applicable to this equipment.

- 4) Submit Occupied BW data for the lowest and highest frequencies. This is necessary to show band-edge compliance. In the past the FCC has accepted photos of spectrum analyzer plots for occupied BW. These plots are needed for the low, middle and high frequency. It is typical for Part 101 devices to come very close to the emissions mask and plots would dispel any doubts about compliance. If you cannot obtain plots I suggest renting an analyzer or contacting a test lab.

Please attached Word file "FCC Emissions 02"

- 5) Submit conducted and radiated spurious emissions for the lowest and highest channel settings.

Please see attached Word file "FCC Emissions 02".

- 6) The temperature stability data is incomplete. Part 2.1057(b) states that the interval shall be 10 degrees. Submit the data in this increment.

Please see attached Excel spreadsheet "Frequency Stability 02".

- 7) I stand corrected from the previous request. Subscriber units require a RF exposure warning label on the antenna. Submit a label and photo of the label location on the antenna to the RF exposure exhibits. To determine the separation distance I suggest the antenna aperture method of calculating MPE as explained in OET Bulletin 65.

This device is designed to operated under Part101 Subpart H. I do not believe the above applies to this equipment.

Thank you again for your help and expeditious processing of our application.

Best regards,

Paul Caskey, President
Enterprise Networks, Inc.