



Date: 06/01/2018

Federal Communications Commission
Authorization & Evaluation Division
7345 Oakland Mills Road
Columbia, Maryland 21046

**RE: Difference Between Rev. B and Rev. C boards for FCC ID: KNYPM0101AB, Granted
06/30/2016**

To Whom It May Concern:

We, FreeWave, are submitting an application to fix internal pictures submitted against FCC ID: KNYPM0101AB. Following are the changes between Rev. B and Rev. C boards.

- Rev C primarily added a saw filter F1 to the transmit path. L2 and C6, were added to the layout near the saw filter, but they are DNI and 0 Ohm and have no electrical function other than providing flexibility if needed.
- L3 was added to the transmit output filter (and the values of C45 and C51 were changed) to improve harmonic suppression.
- The inductor L1 was changed from a wire-wound to multi-layer inductor. This inductor is used on the DC-DC buck regulator within the CC13x0 chip.
- C65 and C67 are capacitors that were added to the RF power detector outputs to smooth the detector level when sampled by the ADC's
- The supply rail to the PA was increased from 3.8 to 4.0V, and the value of C63 (bulk decoupling on the PA supply rail) was increased 0.1uF->10uF to reduce transient voltage dips.
- Rev B used CC1350 or CC1310 interchangeably, while the BOM for Rev C uses CC1310 exclusively.



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Please contact me if you have any questions or need further information regarding this application.

Sincerely,

A handwritten signature in black ink that reads "Riaz Momand". The signature is fluid and cursive, with the first name "Riaz" being more prominent and the last name "Momand" following in a similar style.

Riaz Momand
Sr. Compliance Engineer
FreeWave Technologies, Inc.