

Date: 27 December 2024

Office of Engineering and Technology
Laboratory Division
Equipment Authorization Branch
Federal Communications Commission Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Application for Class 2 Permissive Change to FCC Authorized Transceiver with FCC ID: AZ489FT7145

Dear Sir/Madam,

A permissive change is requested for the subject transceiver which is marketed in the United States and elsewhere.

A. DESCRIPTION OF PRODUCT CHANGES:

1. Due to global part shortage, there are various ICs replacement (listed below) which some of the components requires re-layout. The changes have similar basic function as the previous design and no change in radio parameters.
 - i. Radio Frequency IC (RFIC) Rodinia 2.3 replaced with new Rodinia 3.0 IC. There is no change to the radio electrically and the new part is pin-to-pin comparable with the current part. No layout impacts since it is drop-in part.
 - ii. Transmitter Javelin IC replaced with Javelin 2 IC and its supporting circuitries, with new replacement and supporting design optimization circuitries. However, it is not a pin-to-pin compatible with the previous IC. A re-layout was required to accommodate the new circuitry design and all meets the same specification as the previous part.
 - iii. Passive components (capacitor and resistor) in RFIC Rodinia section drop-in part replacement due to End of Life (EOL).
 - iv. FGU/VCO SPDT RF Switch replacement part is a not pin-to-pin comparable to the current part hence need minor re-layout. The new part provides the same functionality as the previous part.
2. Other non-transmitter changes which do not impact the RF performance included:
 - i. Fall Alert (Mandown), Peripheral, Controller and Power Management parts replacement with minor re-layout due to End of Life (EOL).
 - ii. Peripheral and Power Management drop-in parts replacement due to End of Life (EOL).
 - iii. Frequency Stability's PPM correction for LMR UHF Transmitter's TMO and DMO section in Exhibit 12a.
3. Add in some of part components that missed out and correction on the application from previous filling in Exhibit 10.
4. PCB part number changed from PC000509A02_AB to PC003892A01_AA due to PCN changes which required re-layout and replacement parts.

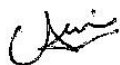
B. PERFORMANCE DIFFERENCES:

EMC, EME & RF has been assessed and no degradation found compared to the previous filing and still within the FCC limits.

C. CONCLUSION:

This radio continues to meet all FCC emissions requirements for which authorization was granted.

Sincerely,



Arine Lee
FCC/IC Certification Manager
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