

Compliance with 47 CFR 15.247(i)

“Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.”

The EUT is a wrist-worn arm band operating in the 2.4 GHz band. It can be considered a portable transmitter per 47 CFR 2.1093 because it can be used within 20cm of the user's torso. The antenna is internal to the unit and permanently attached. The antenna is a an inverted F antenna with 0 dBi of gain. The maximum peak conducted output power is 0.687 mW.

The maximum peak radiated power is 0.687 mW eirp for FCC ID: Q3E-MB-R1G1. The transmit frequency is 2401 to 2476MHz, therefore the EUT does not require routine SAR evaluation because it falls below the low power threshold of $60/f(\text{GHz})\text{mW}$. Please see this excerpt from KDB 447498 D01 Mobile Portable RF Exposure v04, item 2)(a)(i):

"a device may be used in portable exposure conditions with no restrictions on host platforms when either the source-based time-averaged output power is $\leq 60/f(\text{GHz})\text{mW}$ or all measured 1-g SAR are $< 0.4\text{W.kg.}$ "

The applicant's wireless radio, FCC ID: Q3E-MB-R1G1, is compliant with the requirements of FCC 15.247(i).