

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 Avnera AVMD7212 and AVMD7112 family of products are DTS transceivers that operate in the 2400-2483.5MHz band. The manufacturer is applying for portable RF exposure conditions per 47 CFR 2.1093(b). The device has two identical antennas that are used selected using a switch. The antennas are internal chips with a maximum gain of 0.5dBi. The devices have two possible configurations: radio with PA and radio without PA. The maximum peak conducted output powers are 9.66 mW and 1.18 mW, respectively.

The maximum peak power is 10.84 mW (EIRP) for FCC ID:V3CAVMD7F12A. The transmit frequency is 2405 to 2477 MHz, therefore the EUT does not require routine SAR evaluation per “TCB Exclusions List”, footnote 3 (dated July 17, 2002, recently revised). See below:

The exposure category is “General Population.” The distance is < 2.5 cm. Therefore the “Low Threshold” is 24.5 mW (EIRP) – above which routine SAR evaluation would be required. Since the maximum peak power of the EUT is 10.84 mW (EIRP), routine SAR evaluation is not required.

The applicant's radio, FCC ID: V3CAVMD7F12A, is compliant with the requirements of 15.247(i).