

RF Exposure

	HMD19110003
Test Requirement:	FCC 47CFR 15.247(i)
Test Date:	2019-11-01
Mode of Operation:	Tx mode

Test Method:

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.

This evaluation used FCC 47CFR 2.1091 to perform.

Test Results:

The EUT complied with the requirement(s) of this section.

EUT meets the requirements of these sections as proven through MPE calculation

The MPE calculation for EUT @ 20cm

Based on the highest P =1.367 mW

$$\begin{aligned} P_d &= PG / 4\pi R^2 = (1.367 \times 1.995) / 12.566 \times (20)^2 \\ &= (2.727) / 12.566 \times 400 = 2.727 / 5026.4 \\ &= 0.000543 \text{ mW/cm}^2 \end{aligned}$$

where:

*Pd = power density in mW/cm²

* G = Antenna numeric gain (1.995); Log G = g/10 (g = 3dBi).

* P = Conducted RF power to antenna (1.367 mW).

* R = Minimum allowable distance.(20 cm)

*The power density Pd = 0.000543 mW/cm² is less than 1 mW/cm² (listed MPE limit)

*The SAR evaluation is not needed (this is a desk top device, R> 20 cm)

* The EUT(antenna) must be 0.2 meters away from the General Population.