RF Exposure

Test Requirement: FCC 47CFR 15.247(i)
Test Date: 2017-6-9
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.

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 =1.172 mW

$$Pd = PG/4pi*R^2 = (1.172 \times 1.35)/12.566* (20)^2$$
$$= (1.58)/12.566 \times 400 = 1.58/5026.4$$
$$= 0.000314 mW/cm^2$$

where:
*Pd = power density in mW/cm2
* G = Antenna numeric gain (1.35); Log G = g/10 (g = 1.3dBi).
* P = Conducted RF power to antenna (1.172mW).
* R = Minimum allowable distance.(20 cm)

*The power density Pd = 0.000314 mW/cm^2 is less than 1 mW/cm^2 (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.