RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2016-06-24

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 =0.515 mW

The power tune up tolerance is -3.9±1.0dBm

Max. duty factor is 100%

$$Pd = PG/ 4pi*R^2 = (0.515 \times 0.824)/12.566* (20)^2$$
$$= (0.424)/12.566 \times 400 = 0.424 /5026.4$$
$$= 0.000084 mW/cm^2$$

where:

*Pd = power density in mW/cm2

* G = Antenna numeric gain (0.824); Log G = g/10 (g = -0.84dBi).

* P = Conducted RF power to antenna (0.424 mW).

* R = Minimum allowable distance.(20 cm)

*The power density Pd = $0.000122 mW/cm^2$ 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.