## **RF Exposure**

Test Requirement: FCC 47CFR 2.1091

Test Date: 2017-3-15
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 =1.472 mW

The power tune up tolerance is 0.68±1.0dBm

Max. duty factor is 100%

Pd = PG/4pi\*R<sup>2</sup> = 
$$(1.472x 2.14)/12.566* (20)^2$$
  
=  $(3.147)/12.566x 400= 3.147/5026.4$   
=  $0.000626$ mW/cm<sup>2</sup>

## where:

- \*Pd = power density in mW/cm2
- \* G = Antenna numeric gain (2.14); Log G = g/10 (g = 3.3dBi).
- \* P = Conducted RF power to antenna (1.472 mW).
- \* R = Minimum allowable distance.(20 cm)
- \*The power density Pd = 0.000626mW/cm<sup>2</sup> is less than 1 mW/cm<sup>2</sup> (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.