3.1.12 RF Exposure

Test Requirement:	FCC 47CFR 15.247(i)
Test Date:	2017-11-24
Mode of Operation:	On 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 = 0.827 mW@2442MHz

Pd = PG/ 4pi*R^2 = (0.827 x 1.48) /12.566* $(20)^2$

= (1.223)/12.566x 400= 1.223 /5026.4

= 0.000243mW/cm^2

where:

*Pd = power density in mW/cm2

* G = Antenna numeric gain (1.48); Log G = g/10 (g = 1.7dBi).

* P = Conducted RF power to antenna (0.827mW@2442MHz).

* R = Minimum allowable distance.(20 cm)

*The power density Pd = 0.000243mW/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.