RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2018-12-21

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

For Bluetooth DSS:

Based on the highest P =2.296 mW

$$Pd = PG/4pi*R^2 = (2.296 \text{ x } 1)/12.566* (20)^2$$
$$= (2.296)/12.566\text{x } 400 = 2.296 /5026.4$$
$$= 0.00046\text{mW/cm}^2$$

where:

*Pd = power density in mW/cm2

* G = Antenna numeric gain (1.0); Log G = g/10 (g = 0dBi).

* P = Conducted RF power to antenna (2.296 mW).

* R = Minimum allowable distance. (20 cm)

*The DSS power density Pd = 0.0046 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.