RF Exposure

Test Requirement:	FCC 47CFR 15.247(i)
Test Date:	2018-08-14
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 =0.425 mW
Pd = PG/ 4pi*R^2 = (0.425 x 1)/12.566* $(20)^2$
= (0.425)/12.566x 400= 0.425 /5026.4
= 0.000085mW/cm^2

For Bluetooth DTS:
Based on the highest P =0.662 mW
Pd = PG/ 4pi*R^2 = (0.662 x 1)/12.566* $(20)^2$
= (0.662)/12.566x 400= 0.662 /5026.4
= 0.00013mW/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 (DSS: 0.425 Mw, DTS: 0.662 mW).
* R = Minimum allowable distance.(20 cm)

*The DSS power density Pd = 0.000085 mW/cm^2 is less than 1 mW/cm^2 (listed MPE limit)
*The DTS power density Pd = 0.00013 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.