RF Exposure

Test Requirement:	FCC 47CFR 15.247(i)
Test Date:	2021-06-08
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 =1.242 mW

$$Pd = PG/ 4pi*R^2 = (1.242x\ 0.87)/12.566* (20)^2$$
$$= (1.081)/12.566x\ 400= 1.081\ /5026.4$$
$$= 0.000215mW/cm^2$$

where:

*Pd = power density in mW/cm2

* G = Antenna numeric gain (0.87); Log G = g/10 (g = -0.58dBi).

* P = Conducted RF power to antenna (1.242 mW).

* R = Minimum allowable distance.(20 cm)

*The power density Pd = $0.000215mW/cm^2$ 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.