RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2020-11-8

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 Tolerance Power =0.681 mW

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Pd = PG/ 4pi*R<sup>2</sup> = (0.681 \text{ x } 1.78)/12.566* (20)^2
= (1.21218)/12.566\text{x } 400=0.5925 /5026.4
= 0.000241\text{mW/cm}^2
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where:

- *Pd = power density in mW/cm2
- * G = Antenna numeric gain (1.78); Log G = g/10 (g = 2.51dBi).
- *Tolerance Range(-0.5, 0.5)dB
- * P = Tolerance Power (0.681 mW).
- * R = Minimum allowable distance.(20 cm)
- *The power density $Pd = 0.000241 \text{ mW/cm}^2$ 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.