Exhibit: RF Exposure – FCC

FCC ID: EHTRFP47DRC

Report File #: 7169004663I-000

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RF Exposure – FCC

The EUT contains a 1920-1930 (Licence-Exempt Personal Communications Services) transmitter and a 2400 – 2483.5 / 5180 – 5825 MHz (FCC ID : TK4WLE900VX) Wi-Fi/DTS transmitter. The Wi-Fi channels are mutually exclusive, however either Wi-Fi band may be operated simultaneously with the 1920-1930 Band.

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Radiofrequency Radiation Exposure Evaluation: Mobile Devices

Mobile devices shall be evaluated for RF radiation exposure according to the provisions of FCC §2.1091 and the MPE guidelines identified in FCC §1.1310.

As per FCC §1.1310 Table 1(B), the limit for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields for General Population/Uncontrolled Exposure in the frequency range of 300 MHz to 1.5 GHz is f/1500 mW/cm^2 and in the frequency range of 1.5GHz to 100GHz is 1.0 mW/cm^2. Where f = frequency in MHz.

The power density formula is given by:

$$P_d = (P_{out}*G) / (4*pi*R^2)$$

Where,
P_d = Power density in mW/cm^2
P_{out} = Conducted output power to antenna in mW
G = Numeric Antenna Gain
Pi = 3.1416
R = Separation distance in cm

MPE Calculation: 1920-1930 MHz FHSS transmitter

The Digitally modulated transmitter has a maximum EIRP of 23 dBm, based on a conducted output power of 15.5 dBm (35.5 mW) and an antenna gain of 7.6 dBi or 5.75 numerically.

For a distance of 20cm, the power density is:

$$P_d = (35.5\ mW * 5.75) / (4 * 3.1416 * (20cm)^2)$$
$$P_d = 0.0406\ mW/cm^2$$

The device passes the requirement. The calculated power density of 0.0406 mW/cm^2 is below the 1.0 mW/cm^2 limit.

Presuming worst case, the Maximum permissible exposure requirements are met at 20 cm.

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