Exhibit: RF Exposure – FCC

FCC ID: 2ABFD-9246AE80D86

RF Exposure – FCC

The device is a mobile device intended to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure and the body of the user or nearby persons.

The EUT contains a 433.92 MHz transmitter, momentarily operated device with integral antenna.

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:
$$P_d = (EIRP) / (4*pi*R^2)$$

Where,
P_d = Power density in mW/cm^2
EIRP = Maximum measured output power in mW
Pi = 3.1416
R = Separation distance in cm

MPE Calculation: 433.92 MHz transmitter

The transmitter has a maximum EIRP of -18.83dBm or 0.01309mW. For a distance of 20cm, the power density is:

$$P_d = (0.01309) / (4 * 3.1416 * (20cm)^2)$$
$$P_d = 0.000002604 \text{ mW/cm}^2$$

The device passes the requirement. The calculated power density of 0.000002604 mW/cm^2 is below the (433.92/1500) = 0.289 mW/cm^2 limit.