

## INTERTEK TESTING SERVICES

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For Maximum Permissible Exposure (MPE) evaluation of the device, the maximum power density at 25 cm from this mobile transmitter shall be less than the General Population / Uncontrolled MPE limit in OET Bulletin 65.

For the device of tested model of M1, the maximum conducted measured power ( $P_{out}$ ) was 912mW. From these data, the exposed power density at a distance (R) of 25cm from the center of radiation of the antenna can be calculated according to OET Bulletin 65 as follow:

$$\text{Power density} = PG / 4\pi R^2$$

where: P= Power input to the external antenna ( $P_{out}$  – cable loss)

G= Antenna Gain (Linear gain)

R= Separation distance from Transmitting Antenna

The conducted power  $P_{out}$ = 29.6dBm

Cable loss = 0.5dB

Antenna Gain = 6dB

The power density at 25 cm from the antenna

$$= (812.830 \times 3.98) / (4\pi 25^2) \text{ mW cm}^{-2}$$

$$= 0.412 \text{ mW cm}^{-2}$$

In the frequency range of 902-928 MHz, the MPE limit is 0.601 mWcm<sup>-2</sup> for general population and uncontrolled exposure. As the measured power density at 25cm from the transmitter is lower than the MPE limit, the compliance to the MPE limit can be ensured by indicating the minimum 25cm separation between the transmitter's radiating structures and body of the user or nearby persons.

The following RF exposure statement is included in the user manual:

**“FCC RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 25 centimeters between the radiator and your body.”**