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HCV Wireless Pty Ltd
FCC ID: QC3100001
FCC Part 15 Certification

RF Exposure Compliance Requirement

We hereby declare that BlueMod™ is considered to be a mobile transceiver. As such, it must comply with the maximum permissible exposure limits for the general population, as outlined in Table 1 of 47 CFR 1.1310.

The power density of the BlueMod™ electromagnetic field can be calculated using the following formula:

$$S = (PG)/4\pi R^2$$

Where:

S = Power density = 1 mW/cm²

P = Power input to the antenna = 4.35 dBm

G = linear power gain relative to an isotropic antenna = 0 dBi

R = Distance to the centre of the radiation of the antenna

The highest measured conducted output power of the BlueMod™ Bluetooth Development Kit is 4.35 dBm (P). The radiating element is a printed monopole ¼ wavelength antenna with a nominal gain of 0 dBi (G). As mentioned above, Table 1 of 47 CFR 1.1310 defines the maximum permissible exposure (MPE) for the general population as 1 mW/cm² (S). Thus, solving the above equation for R, the MPE limit is reached at approximately 0.58 cm (0.02 feet) from the antenna.

BlueMod™ is designed to operate as a standalone Bluetooth product and as such will have a separation distance of at least 20 cm from all persons and will not be co-located or operating in conjunction with any other antenna or transmitter.

A safety statement concerning minimum separation distances from the BlueMod™ enclosure of the will be integrated in the user manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

Therefore, BlueMod™ meets the MPE requirements for uncontrolled exposure.

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Signature