

**Human RF Exposure**

Calculation in accordance with CFR47 FCC Part 15 Subpart C: 2017 Paragraphs 15.215, 15.247(i), ISED RSS-GEN:2014 Section 3.2.

The maximum measured conducted power, P is 19.48 dBm.

The antenna gain, G is 2.6 dBi.

The maximum EIRP power = P+G

EIRP = 19.48 + 2.6 = 22.08 dBm or 0.16143585568 W

The limits for Maximum Permissible Exposure (MPE) for transmitter operating at 2.4 GHz,

MPE is 10 W/m<sup>2</sup>.

The Power Density, S is related to EIRP with the equation:

$S = \text{EIRP} / 4\pi D^2$ , where D is the safe separation distance and = 0.2m, or 20cm

$S = 0.16143585568 \text{ W} / 4\pi 0.2^2$ ,

$S = 0.32 \text{ W/m}^2$ ,

which is below the Maximum Permissible Exposure (MPE) of 1.0 W/m<sup>2</sup> and RSS 102 Issue 5 RF Exposure limit 5.35 W/ m<sup>2</sup>