

**Maximum Permissible Exposure (MPE) Compliance
Statement, FCC Radio Frequency Exposure Limit 1.1310
Health Canada Safety Code 6
Vtech VT20-2437 Wireless Telephone Base.**

The VT20-2437 wireless telephone base has been tested and the performance characterized in accordance with the MPE requirements of FCC 47 CFR and RSS 102.

At an operating frequency of 2.4 – 2.4835 MHz the MPE limit for the General Population/Uncontrolled Exposure is $1.0\text{mW}/\text{cm}^2$. The VT20-2437 complies with this limit at the following line of sight distances from the antenna element:

VT20-2437 : 4.6 cm

The analysis is provided below.

Power Density (P_D) = $\text{EIRP}/(4\pi R^2)$, Therefore, $R \geq \sqrt{\text{EIRP}/P_D 4\pi}$

Using this calculation, for the VT20-2437

$$P_D = 1.0 \text{ mW}/\text{cm}^2$$

Antenna Gain = 0dBi, *therefore*

EIRP = 24.2dBm or 263mW(max. worst case)

R= 4.6cm

The User Manual, which also incorporates the user instructions, includes a safety statement that cautions the user to ensure the Base Unit is located such that people will not approach within 5cm of the Base unit antenna. This distance provides additional safety margin for the product.

Analysis provided by Nemko Canada for Vtech Engineering
Glen Westwell.