Visonic Ltd.

Exposure limit according to §15.247(i) and RSS-102, Safety Code 6

The glass break detector is classified as a mobile device.

The FCC limit for power density for general population/uncontrolled exposure is 1 mW/cm² for 2.4 GHz. The RSS-102 limit for power density for general population/uncontrolled exposure in 300 – 6000 MHz frequency range is $0.02619 \times 10^{-0.6834} \text{ W/m}^2 = 0.02619 \times 2412^{-0.6834} \text{ W/m}^2 = 0.536 \text{ mW/cm}^2$

The power density **P** (mW/cm²) = $P_T / 4\pi r^2$

P_T is the transmitted power, which is equal to the peak transmitter output power 20.07 dBm plus maximum antenna gain 0 dBi, the maximum equivalent isotropically radiated power EIRP is

P_T = 20.07 dBm = 102 mW.

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

102 mW / 4π (20 cm)² = 0.02 mW/cm² << 1 mW/cm² 102 mW / 4π (20 cm)² = 0.02 mW/cm² << 0.536 mW/cm²

General public cannot be exposed to dangerous RF level.