

**Environmental evaluation and exposure limit according to FCC CFR 47part 1,  
§1.1307, §1.1310**

The BSR 900 MHz & SPRL 900 MHz transceivers are classified as mobile.

Limit for power density for general population/uncontrolled exposure is  $f/1500$  mW/cm<sup>2</sup> for 300 – 1500 MHz frequency range:

$$P = 903/1500 = 0.6 \text{ mW/cm}^2$$

The power density  $P$  (mW/cm<sup>2</sup>) =  $P_T / 4\pi r^2$ , where

$P_T$  is the maximum equivalent isotropically radiated power (EIRP), which is equal to: transmitter maximum output power 17.93 dBm plus maximum antenna gain 8 dBi; the maximum equivalent isotropically radiated power is 25.93 dBm  $\approx$  392 mW.

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

$$392 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.08 \text{ mW/cm}^2 < 0.6 \text{ mW/cm}^2$$

was found below the limit.

Hence, no safety hazard exists for human being.