

**Compliance with 47 CFR 15.247(i)**

*“Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.”*

The EUT will only be used with a separation distance of 20 centimeters or greater between the antenna and the body of the user or nearby persons and can therefore be considered a mobile transmitter per 47 CFR 2.1091 (b). Calculations are provided for each radio transmitting through its own internal antenna and optional external antenna.

The total transmit power is less than 1.5 W (ERP), therefore the EUT is categorically excluded from routine environmental evaluation per 47 CFR 2.1091(c).

The MPE estimates are as follows:

Table 1 in 47 CFR 1.1310 defines the maximum permissible exposure (MPE) for the general population. The exposure level at a 20 cm distance from the EUT's transmitting antenna is calculated using the general equation:

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

Where: S = power density (mW/cm<sup>2</sup>)

P = power input to the antenna (mW)

G = numeric power gain relative to an isotropic radiator

R = distance to the center of the radiation of the antenna (20 cm = limit for MPE estimates)

PG = EIRP

Solving for S, the maximum power densities 20 cm from the transmitting antennas are summarized in the tables on the following pages:

### MPE Estimates for Self Located Device

<b>FCC ID: KBCIX-MC8775</b>								
<b>In the IX605 Host PC</b>								
<b>GSM, GPRS, EDGE, UMTS, WCDMA, HSDPA</b>								
Antenna Type	Antenna Part No.	Transmit Frequency	Max Peak EIRP Output	Max ERP Output	Power Density @ 20 cm	Source-based time averaging corrected Power Density @ 20 cm	General Population Exposure Limit from 1.1310	Ratio of Power Density to the Exposure Limit
<b>IX605 Primary WAN</b>		<b>(MHz)</b>	<b>(mW)</b>	<b>(mW)</b>	<b>(mW/cm<sup>2</sup>)</b>	<b>(mW/cm<sup>2</sup>)</b>	<b>(mW/cm<sup>2</sup>)</b>	
Meander Line	Skycross 2-2920	848.8	3872.04	2361	0.770	0.1925	0.56	<b>0.340</b>
Meander Line	Skycross 2-2920	1850.2	1589.0		0.316	0.079	1	0.079
<p>Worst Case Ratio of Power Density to the Exposure Limit = <b>0.340</b>                      Source-based time averaging corrected for the GPRS Duty Cycle of 25% "worst case".</p>								

### Excerpts from TCB Training, April 3, 2002, "Mobile Transmitters", Slide 6:

*"Devices operating in multiple frequency bands*

- *When RF exposure evaluation is required for TCB approval*
  - *Separate antennas – estimated minimum separation distances may be considered for the frequency bands that do not require evaluation or TCB approval, however, the estimated distance should take into account the effect of co-located transmitters. (Note 24)*

*Note 24 According to multiple frequency exposure criteria, the ratio of field strength or power density to the applicable exposure limit at the exposure location should be determined for each transmitter and the sum of these ratios must not exceed 1.0 for the location to be compliant."*

The sum of the ratio(s) (power density to the exposure limit) does not exceed 1.0; therefore, the exposure condition is compliant with FCC rules.