

## 4.30 RF Exposure

### RF EXPOSURE INFO

Environmental evaluation measurements of Maximum Permissible Exposure (MPE) to radio frequency (RF) radiation from transmitting devices for compliance with the technical rules and regulations of the U.S. Federal Communications Commission and Industry Canada.

#### Description of EUT

Model: UPCS Base Station S455

- 1) The probe was positioned on a table at a separation distance of 20 cm from the radiating antenna and at a starting height of 5 cm to the center of the probe.
- 2) The table was positioned so that the initial start angle was 0 degrees.
- 3) The EUT was powered on and allowed sufficient time to stabilize. The EUT was operated at full power on a desired frequency.
- 4) The analyzer and the field probe was set for maximum hold, and set on the appropriate power range.
- 5) The table was rotated 360 degrees and the maximum reading was obtained for that elevation.
- 6) The antennas were lifted and lowered at maximum value in the horizontal plane to find the maximum in vertical position.

#### Result:

The max measured MPE value on a distance of 20 cm is:

**0.23 mW/cm<sup>2</sup>** by measurement with the analyzer  
**0.26 mW/cm<sup>2</sup>** by measurement with the field probe

#### MPE System Specification:

- Electromagnetic Radiation Field probe, PMM Model 8053  
Frequency Range: 1 MHz to 40 GHz  
Calibration date: 05/2005
- Signal analyzer FSIQ26 from R&S  
Frequency range: 10 Hz to 26.5 GHz  
Calibration date: 02/2005



#### Limit:

1mW/ cm<sup>2</sup> is the reference level for general public exposure according to the OET Bulletin 65, Edition 97-01 Table 1.