

**RF Exposure Evaluation**

For Specific Absorption Rate (SAR) evaluation of the Transmitter Unit, with reference to TCB Exclusions List revised on Feb 24, 2011, portable transmitters with output power less than low threshold and operating within 2.5cm from person's body can be certified by TCB without the SAR evaluation. The output power for portable transmitters is defined as the higher of the conducted or radiated (EIRP) source-based time averaging output power. And the low threshold is equal to  $(60/f\text{GHz}) \text{ mW}$  for  $d < 2.5\text{cm}$ , where fGHz is mid-band frequency in GHz, and d is the distance from the portable transmitter to a person's body, excluding hands, wrists, feet, and ankles.

For the Module of the tested model of TRFM915, the measured peak conducted power was 8.15 mW. The maximum source-based time averaging duty factor is 100%.

The conducted source-based time averaging output power  
= $(8.15 \times 1) \text{ mW}$   
=8.15 mW

The measured maximum field strength (FS) was 108.0 dB $\mu$ V/m. The distance (D) between the antenna and the equipment under test (EUT) was 3 meters. From these data, the radiated (EIRP) source-based time-averaging output power can be calculated by:

The radiated power =  $(FS \times D)^2 / 30 \text{ mW}$   
=18.93 mW

The radiated (EIRP) source-based time-averaging output power  
= $(18.93 \times 1) \text{ mW}$   
=18.93 mW

The low threshold in the 902~928MHz band is 65.57 mW.

From the above calculation, output power obtained in both method is less than low threshold, it is concluded that the handset can be certified by TCB without the SAR evaluation.