

INTERTEK TESTING SERVICE

Report No.: HK09080476-1

RF Exposure Evaluation

For Specific Absorption Rate (SAR) evaluation of the handset, with reference to TCB Exclusions List revised on July 17, 2002, 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 $f\text{GHz}$ 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 TX unit of the tested model of 33-282, the measured peak conducted power was 1.69 mW.

The measured maximum field strength (FS) was 107.5 dB μ 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:

$$\begin{aligned} \text{The radiated power} &= (\text{FS} \cdot \text{D})^2 / 30 \text{ mW} \\ &= 19.6 \text{ mW} \end{aligned}$$

The low threshold in the 902 – 928 MHz 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.