



Statement of compliance to Maximum Permissible Exposure (MPE)

Equipment : 802.11g Wireless MiniPCI Card
Type/Model : COM06
Applicant : Shanghai Aero-Sharp Electric Technologies Co.,Ltd
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Here assuming a worst-case prediction of power density (100% reflection), then

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

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report SH11100532-001:

The maximum conducted power P = 21.88dBm = 154.170mW

G = 2.00dBi = 1.585

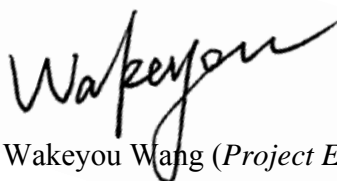
Here R is chosen to be 20cm,

$$S = PG / (\pi R^2) = 154.170 * 1.585 / (3.14 * 20 * 20) = 0.19\text{mW/cm}^2$$

This level is below the 1 mW/cm² MPE for General Population / Uncontrolled Exposure as stated in OET BULLETIN 65 Edition 97-01.

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Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.