

Statement of compliance to Maximum Permissible Exposure (MPE)

Equipment : PNA (Personal Navigation Assistant)
Type/Model : P'9611
Applicant : Navigon AG
Schottmuellerstrasse 20a, Hamburg, 20251
Germany
Manufacturer : Solectron (Suzhou) Technology Co., Ltd.
No.268, Suhong Zhong Road, China-Singapore,
Suzhou Industrial Park, 215126 Suzhou, Jiangsu,
China

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 JSH006090224-001:

The maximum P = 1.42dBm = 1.39mW

G = 3.1dBi = 2.04

R is chosen to be 1cm (worst case)

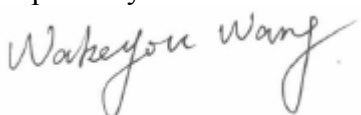
$$S = PG / (\pi R^2) = 1.39 * 2.04 / 3.14 = 0.90 \text{ mW/cm}^2$$

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

Conclusion: this EUT fulfills 47CFR Part 15.247(i) (2006).

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