Declaration on radiation safety standard conformance - MPE Evaluation

To whom it may concern:

Agere Systems Nederland B.V.
Zadelstede 1-10
3431 JZ Nieuwegein
The Netherlands

declares that the following product

Description:	2.4 GHz Low Power RLAN transceiver
FCC ID:	IMRWLPCE24H
Manufacturer:	Agere Systems Nederland B.V.
Brand:	Agere
Type/model number:	PC24E-H-FC
External antenna:	Telex 2417NL

has an e.i.r.p. of less than 21.5 dBi (142 mW, including a maximum antenna gain of +6.5 dBi), which means that the minimum distance for which the limit of 1.0 mW/cm^2 of power density (Table 1 in 47 CFR §1.1310) is not exceeded can be calculated as follows :

$$S = \frac{EIRP}{4*\pi * R^2} \quad \text{(power density without reflection)}$$

$$S = \frac{2^2*EIRP}{4*\pi * R^2} \quad \text{(power density with 100\% reflection)}$$

$$S = \frac{2^2 *EIRP}{4*\pi * R^2} = \frac{142\ mW}{\pi*(R)^2}$$

$$S = 1 = \frac{142\ mW}{\pi*(R)^2}$$

$$R = \sqrt{(142\ mW/\pi)} = 6.7\ cm.$$

This means that according to the Supplement C (edition 01-01) to OET Bulletin 65 (edition 97-01) the equipment can fulfil the requirements on power density for general population/uncontrolled exposure and therefore can fulfil the requirements of FCC Part 15.247(b) (4) at a separation distance of at least 6.7 cm between the user and the antenna.

The user/installation manual will contain the following RF Exposure statements:
"When external antennae are connected to the wireless PC Card they shall be placed in such a manner to minimize the potential for human contact during normal operation. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation"

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