



HERMON LABORATORIES

Test Report: Amend_13823.doc
Date: May, 2000

Amendment to

ELECTROMAGNETIC EMISSIONS TEST REPORT

ACCORDING TO FCC CFR 47 PART 15 SUBPART B, PART 90 SUBPART I
for

Head Connections

EQUIPMENT UNDER TEST:

**Private address wireless network,
model PAWN 101-460C**

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Table 4.3.1
ERP measurement

Frequency, MHz	E, dBmV/m	P _{gen} , dBm	Cable loss, dB	Antenna gain, dBi	ERP _{max} , dBm	Limit, dBm	Pass/ Fail
451.017	115.12	17	0.5	0.56	17.06	33	Pass
460.65	117.95	20	0.5	0.56	20.06	33	Pass
469.98	118.07	20	0.5	0.56	20.06	33	Pass



4.7 Exposure limit according to part 1, 1.1310

Limit for power density for general population/uncontrolled exposure is $F/1500$, where F is frequency (in MHz).

In our case for frequency 470 MHz the limit is 0.31 mW/cm²,
frequency 450 MHz the limit is 0.3 mW/cm².

Power density

$$P(\text{mW/cm}^2) = P_T/(4\pi r^2),$$

where P_T = ERP.

For $F = 470$ MHz:

$$P_T = 20.06 \text{ dBm} = 101 \text{ mW}.$$

The allowed distance r , where RF exposure limits may not be exceeded is 5.09 cm:

$$r = \sqrt{101/(4\pi \cdot 0.31)} = 5.09 \text{ cm}$$

The public can not be exposed to dangerous RF level.

For frequency 450 MHz

$$P_T = 17.06 \text{ dBm} = 57.54 \text{ mW}.$$

The allowed distance r , where RF exposure limits may not be exceeded is 3.9 cm:

$$r = \sqrt{57.54/(4\pi \cdot 0.3)} = 3.9 \text{ cm}$$

The public can not be exposed to dangerous RF level.



4.8 Antenna position with respect to user's head

