Additional measurement to the FCC 15.247 measurement report for the PALM Adapter.

Date of measurement: 2001-10-08

1 Power spectral density

1.1 Test conditions and result

Ambient temperature: +23°C

Relative humidity: 46%

Rated output power: 2dBm

TX mode: sending Paging-mode sequency

Vnom: 2.4 volt

The power spectral density was measured on the middle channel, which gives the frequency, F_{middle} = 2441 MHz.

The test is performed according to clause 15.247(d).

Spectrum analyser settings:

RBW = 3 kHz

VBW = 10 kHz

Span = 300 kHz

Sweep time = 100 sec.

Detector = max peak

Trace = max hold

The RBW is set to 3 kHz and the sweep time is calculated to (Span/RBW) = 300/3 = 100 seconds.

Readings from the Spectrum analyser.

Test condtion		**Power spectral density**			
Tempera-ture	**Voltage**	**Frequency Peak (MHz)**	**Measured value (dBm)**	**Calculated value (dBm)**	**FCC limit**
Tnom	Vnom	2 441.009	-27.7	-16.5	8dBm

Attenuation = 11.2 dB

Calculated value = measured value + attenuation

1.2 Limits

The limit according to FCC 15.247(d) is: < +8 dBm.

1.3 Verdict

The equipment passed the test.

1.4 Test equipment used

Spectrum Analyser	Rhode & Schwarz	FSP 30
Power supply	Agilent	E3631A
Coaxial cable	Suhner	Sucoflex 101PE
Attenuator	INMET 64671	18AH – 10dB

1.5 Measurment uncertainty

Amplitud: better than ±1.0dB

1.6 Plot

A plot from the measurement can be seen below.