

Uppgjord (även faktaansvarig om annan) - WSS Leif Björklund		Nr - No WSS/D/R 01:039		
Dokansv/ Godk - Doc respons/Approved	Kontr - Checked	Datum - Date	Rev	File
WSS Tomas Blom		2001-10-09	A	

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, $F_{\text{middle}} = 2441$ 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 $(\text{Span}/\text{RBW}) = 300/3 = 100$ seconds.

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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

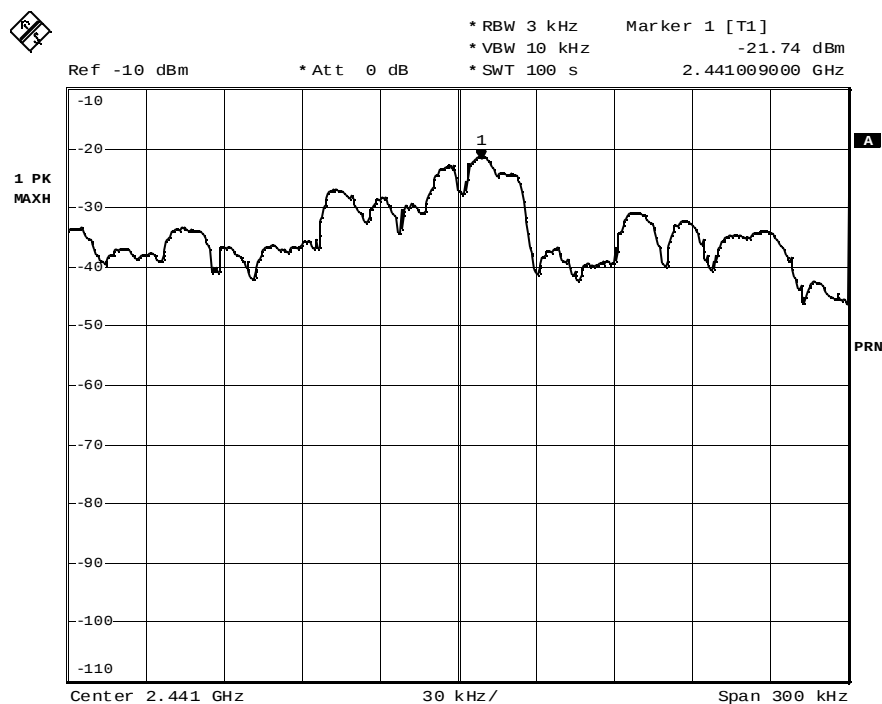
1.5 Measurment uncertainty

Amplitud: better than ±1.0dB

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1.6 Plot

A plot from the measurement can be seen below.



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