

1.1 PEAK POWER MEASUREMENT OF ACCESS POINT

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt.
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/2005
Spectrum Analyzer	R&S	FSP30	100112	08/03/2005

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Spectrum analyzer. The Spectrum analyzer is set to the peak power detection.



TEST RESULTS

No non-compliance noted

<u>Test Plot</u>

The output power measured from Access Point's antenna connector

IEEE 802.11b mode

Peak power (CH Low)

🔆 Agilent 17:39:39 Nov 17, 2004



15.80 dBm / 18.0000 MHz

Power Spectral Density

-56.76 dBm/Hz

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IEEE 802.11g mode

Peak power (CH Low)











Access point tuned to the max. output power and measured the booster in three setting : <u>100mW</u>, <u>200mW</u> and <u>500mW</u>

100mW / IEEE 802.11b mode

Peak power (CH Low)

🔆 Agilent 14:50:26 Nov 17, 2004



Ref 23.1 dBm #Atten 32 dB #Peak where the man the Log ww 10 MM WAY MM dB/ Offst N. 1.1 h dB Ψh \mathbb{W} MMMA LgAv W1 S2 Span 25 MHz Center 2.412 00 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 1 ms (601 pts) Channel Power Power Spectral Density

19.69 dBm / 18.0000 MHz

-52.87 dBm/Hz







100mW / IEEE 802.11g mode

Peak power (CH Low)

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19.68 dBm / 20.0000 MHz

-53.33 dBm/Hz









200mW / IEEE 802.11b mode

Peak power (CH Low)









200mW / IEEE 802.11g mode

Peak power (CH Low)











500mW / IEEE 802.11b mode

Peak power (CH Low)









500mW / IEEE 802.11g mode

Peak power (CH Low)











Access point tuned to the lowest output power 8 dBm at the middle channel and measure the booster peak output power at 100mW, 200mW and 500 mW

100mW / IEEE 802.11b mode / Peak power (CH Mid)



100mW / IEEE 802.11g mode / Peak power (CH Mid)





200mW / IEEE 802.11b mode / Peak power (CH Mid)



200mW / IEEE 802.11g mode / Peak power (CH Mid)





500mW / IEEE 802.11b mode / Peak power (CH Mid)



500mW / IEEE 802.11g mode / Peak power (CH Mid)

