



To: Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Subject: Experimental License / STA Application, FCC Compliance Exhibit

Date: 21 March 2004

Gentlemen,

In response to the Commission's inquiry as to MetroFi's compliance with the Commission's regulations governing the transmit frequency and EIRP of the radios MetroFi will be evaluating.

If you require any additional information, please do not hesitate to contact me at: david@waitt.us

Best Regards,

David Waitt
Consultant Representing MetroFi

2.4GHz Compliance

Sec. 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

<EDIT>

15.247(a)(2)(b) The **maximum peak output power of the intentional radiator shall not exceed the following:**

15.247(a)(2)(b)(1) For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 hopping channels, all frequency hopping systems in the 5725-5850 MHz band, **and all direct sequence systems: 1 watt.**

15.247(a)(2)(b)(3) 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)

How MetroFi Complies:

	FCC Regulations	MetroFi Operation
Operating Frequency Band	2400 - 2483.5MHz	2412 - 2462 MHz
Transmit power (MAX, dBm EIRP) (1 W + 6 dBi)	36 dBm EIRP	32 dBm EIRP

5 GHz Compliance

Sec. 15.407 General technical requirements. (5GHz UNII)

15.407(a)(3) (5.725-5.825 GHz)

<EDIT>...For the band 5.725-5.825 GHz, **the peak transmit power over the frequency band of operation shall not exceed the lesser of 1 W ...**

<EDIT>...However, fixed point-to-point U-NII devices operating in this band **may employ transmitting antennas with directional gain up to 23 dBi without any corresponding reduction in the transmitter peak output power** or peak power spectral density.

<EDIT>...The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible **for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.**

How MetroFi Complies:

	FCC Regulations	MetroFi Operation
Operating Frequency Band	5.725 - 5.825 GHz	5.745 - 5.805 GHz
Transmit power (MAX)	1.0 Watt	.5 Watt
Antenna Gain (MAX, point to point)	23 dBi	16 dBi