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CERTIFICATE OF COMPLIANCE

MANUFACTURER NAME & ADDRESS:

Matsushita Electric Industrial Co., Ltd.
1006 Oaza Kadoma, Kadoma,
Osaka, 571 JAPAN
Attn: Rich Mullen, (PSCD, MECA)
Yutaka Miyake, (ITPD)

DATE & LOCATION OF TESTING:

Date(s) of Tests: April 3-4, 2003
Test Report S/N: 15.230328176.ACJ
Test Site: PCTEST Lab, Columbia, MD
Project No.: ITPD-03-F008A

FCC ID:

ACJ9TGCF-482

APPLICANT:

Matsushita Electric Industrial Co., Ltd.

SUMMARY:

Model No.: Panasonic CF-48
Equipment EUT Type: Panasonic TOUGHBOOK CF-48 w/ Intel WLAN FCC ID: PD9WM3B2100
Max. Output Power: 45 mW (16.5 dBm) Conducted (DTS)
Frequency Range: 2412 - 2462 MHz
FCC Classification: FCC Part 15 Digital Transmitter System (DTS)
FCC Rule Part(s): Parts 15.247; ANSI C-63.4-2001

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C-63.4-2001.

Grant Conditions: Power output is conducted. This device is authorized to operate with a specific computer as described in this filing and has been tested for SAR compliance for portable configurations. This device must not be co-located or operating with any other antenna or transmitter. End-users must be provided with antenna installation and transmitter operating conditions for satisfying RF exposure compliance.

I authorize and attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.


Alfred Cirwithian
Vice President Engineering

25. 230113012. ACJ



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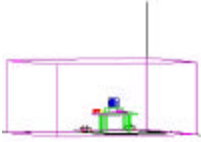
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<p>PCTEST LAB TEST REPORT Part 15.247</p>	 <p>FCC MEASUREMENT REPORT</p> 		<p>Reviewed by: Quality Manager</p>	
<p>Filename: 15_230328176.ACJ</p>	<p>Test Dates: April 3-4, 2003</p>	<p>EUT Type: Panasonic TOUGHBOOK CF-48 w/ Intel WLAN FCC ID: PD9WM3B2100</p>	<p>FCC ID: ACJ9TGCF-482</p>	<p>Page i of i</p>

Attestation Statements

PCTEST LAB TEST REPORT Part 15.247		FCC MEASUREMENT REPORT		Reviewed by: Quality Manager
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MEASUREMENT REPORT





A. General Information

APPLICANT	Matsushita Electric Industrial Co., Ltd.
APPLICANT ADDRESS	1006 Oaza Kadoma, Kadoma Osaka, 571 JAPAN
TEST SITE	PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS	6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S)	Parts 15.247; ANSI C-63.4-2001
TRADE/ MODEL NAME	Panasonic CF-48
FCC ID	ACJ9TGCF-482
Test Device Serial No.:	S/N: 001 <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering
FCC CLASSIFICATION	FCC Part 15 Digital Transmitter System (DTS)
DATE(S) OF TEST	April 3-4, 2003
TEST REPORT S/N:	15.230328176.ACJ
PROJECT NO.:	ITPD-03-F008A

A.1 Test Facility Accreditation

Measurements were performed at PCTEST Engineering Lab in Columbia, MD 21045, U.S.A.

- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- PCTEST Lab is accredited by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) in EMC, Telecommunication, and FCC for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. (NVLAP Lab code: 100431-0).
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules.
- PCTEST facility is an IC registered (IC-2451) test laboratory with the site description on file at Industry Canada.

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1.0 INTRODUCTION

1.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2001) and FCC Public Notice dated July 12, 1995 entitled "Guidance on Measurement for Direct Sequence Spread Spectrum System" were used in the measurement of **Panasonic ToughBook CF-48 w/ Intel WLAN FCC ID: PD9WM3B2100**.

1.2 Scope

Measurement & determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

1.3 PCTEST Test Location

The map at the right shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity area, the Baltimore-Washington Intern't'l (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1.2-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N

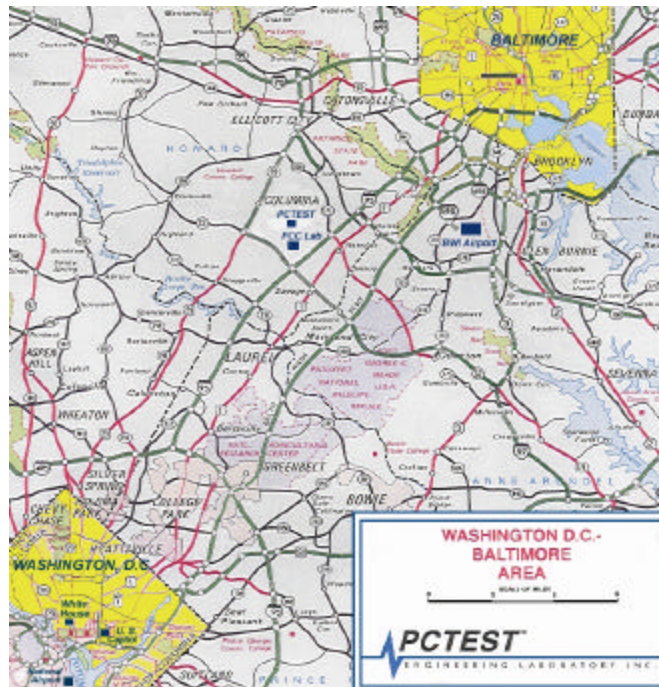




Figure 1.3-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 2002.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Panasonic ToughBook CF-48 w/ Intel WLAN FCC ID: PD9WM3B2100**. The EUT consisted of the following component(s):

Table 2-1. EUT Equipment Description

Manufacturer / Model / Description	Serial Number
Panasonic/ CF-48/ ToughBook w/ Intel WLAN FCC ID: PD9WM3B2100	001



2.2 Operation Mode

The WLAN was installed in the Panasonic CF-48. All operational modes are controlled via software supplied by Panasonic.

2.3 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing.

- none

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3.0 DESCRIPTION OF TEST

3.1 Conducted Emissions

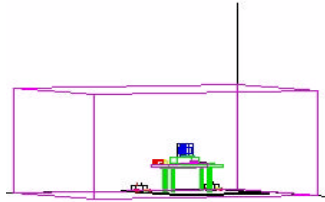


Figure 3.1-1. Shielded Enclosure Line-Conducted Test Facility

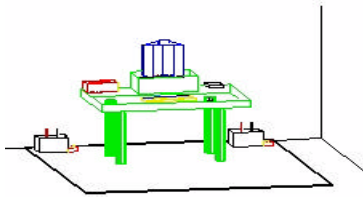


Figure 3.1-2. Line Conducted Emission Test Set-Up

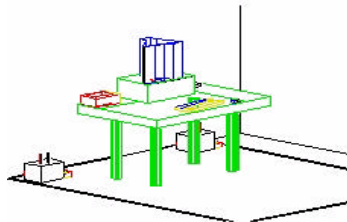


Figure 3.1-3. Wooden Table & Bonded LISNs

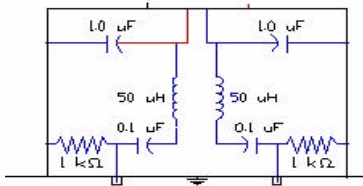




Figure 3.1-4. LISN Schematic Diagram

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure. It is manufactured by Ray Proof Series 81 (see Figure 3.1-1). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 1.5m away from the sidewall of the shielded room (see Figure 3.1-2). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (See Figure 3.1-3). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filters (100dB 14Hz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with an inner diameter of ½". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the Solar LISN. The LISN schematic diagram is shown (See Figure 3.1-4). All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 150kHz to 30Mhz with a 20msec. sweep time. The frequencies producing the maximum level were re-examined using an EMI/Field Intensity Meter and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak and average mode. The bandwidth of the receiver was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H patter to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Exhibit M. Each EME reported was calibrated using the HP8640B signal generator.

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3.2 Radiated Emissions

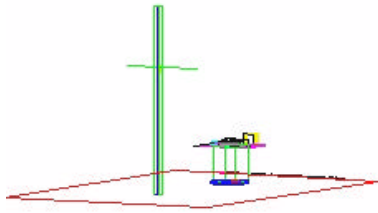


Figure 3.2-1. Meter Test Site

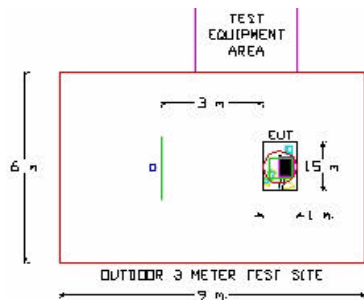


Figure 3.2-2. Dimensions of Outdoor Test Site

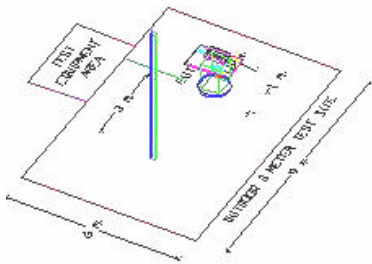


Figure 3.2-3. Turntable and System Setup

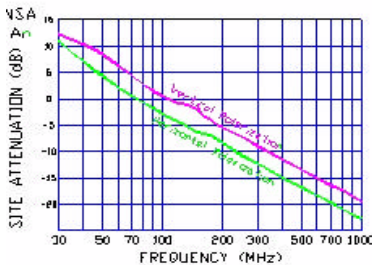


Figure 3.2-4. Normalized Site Attenuation Curves (H&V)

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna was noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using biconical antenna and from 200 to 1000 MHz using log-spiral antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3meter test range using Roberts™ Dipole antennas or horn antenna (see Figure 3.2-1). The test equipment was placed on a wooden and plastic bench situated on a 1.5 x 2 meter area adjacent to the measurement area (see Figure 3.2-2). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100kHz or 1 MHz depending on the frequency or type of signal. Above 1GHz the detector function was set to CISPR average mode (RBW = 1MHz, VBW = 10Hz).

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table (see Figure 3.2-3). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Exhibit E-G. Each EME reported was calibrated using the HP8640B signal generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 3.2-4.

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4.0 ANTENNA REQUIREMENTS

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the applicant can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with this requirement.

The antennas are **permanently attached dual inverter F type antennas**.



There are no provisions for connection to an external antenna.

Conclusion:

The **Panasonic CF-48** unit complies with the requirement of §15.203.

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

Table 5.0 Frequency/ Channel Operations

PCTEST LAB TEST REPORT Part 15.247		FCC MEASUREMENT REPORT		Reviewed by: Quality Manager
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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

TYPE	MODEL	CAL. DUE DATE	CAL. INTERVAL	SERIAL No.
Microwave Spectrum Analyzer	HP 8566 (100Hz-22GHz)	12/05/03	Annual	3638A08713
Microwave Spectrum Analyzer	HP 8566 (100Hz-22GHz)	04/17/03	Annual	2542A11898
Spectrum Analyzer/Tracking Generator	HP 8591A (9kHz-1.8GHz)	06/02/03	Annual	3144A02458
Spectrum Analyzer	HP 8591A (9kHz-1.8GHz)	10/15/03	Annual	3108A02053
Spectrum Analyzer	HP 8594A (9kHz-2.9GHz)	11/02/03	Annual	3051A00187
PSA Spectrum Analyzer	Agilent E4448A (3Hz – 50GHz)	05/05/03	Annual	PCT682
Signal Generator	HP 8650B (500Hz-1GHz)	06/02/03	Annual	2232A19558
Signal Generator	HP 8640B (500Hz-1GHz)	06/02/03	Annual	1851A09816
Signal Generator	Rohde & Schwarz (0.1-1GHz)	09/22/03	Annual	894215/012
Ailtech/Eaton Receiver	NM 37/57A-SL (30MHz-1GHz)	04/12/03	Annual	0792-03271
Ailtech/Eaton Receiver	NM 37/57A (30MHz-1GHz)	03/11/04	Annual	0805-03334
Ailtech/Eaton Receiver	NM 17/27A (0.1-32MHz)	09/17/03	Annual	0608-03241
Quasi-Peak Adapter	HP 85650A	08/09/03	Annual	2043A00301
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	03/11/04	Annual	0194-04082
RG58 Coax Test Cable	No.167			n/a
Harmonic/Flicker Test System	HP 6841A (IEC 555-2/3)			3531A00115
Broadband Amplifier (2)	HP 8447D			1145A00470, 1937A03348
Broadband Amplifier	HP 8447F			2443A03784
Transient Limiter	HP 11947A (9kHz-200MHz)			2820A00300
Horn Antenna (2)	EMCO Model 3115 (1-18GHz)			9704-5182, 9205-3874
Horn Antenna	EMCO Model 3116 (18-40GHz)			9203-2178
Biconical Antenna (3)	Eaton 94455-1			1295, 1332, 1277
Log-Spiral Antenna (2)	Ailtech/Eaton 93490-1			0227, 1104
Log-Spiral Antenna	Singer 93490-1			147
Roberts Dipoles	Compliance Design (1 set) A100			5118
Ailtech Dipoles	DM-105A (1set)			33448-111
EMCO LISN (3)	3816/2, 3816/2, 3725/2			1077, 1079, 2099
50-ohm Terminator	n/a			n/a
Microwave Preamp 40dB Gain	HP 83017A (0.5-26.5GHz)			3123A00181
Microwave Cables	MicroCoax (1.0-26.5GHz)			n/a
Ailtech/Eaton Receiver	NM37/57A-SL			0792-03271
Spectrum Analyzer	HP 8591A			3034A01395
Modulation Analyzer	HP 8901A			2432A03467
NTSC Pattern Generator	Leader 408			0377433
Noise Figure Meter	HP 8970B, Ailtech 7510			3106A02189, TE31700
Noise Generator	Ailtech 7010			1473
Microwave Survey Meter	Holiday Model 1501 (2.45GHz)			80931
Digital Thermometer	Extech Instruments 421305			426966
Attenuator	HP 8495A (0-70dB) DC-4GHz			
Bi-Directional Coax Coupler	Narda 3020A (50-1000MHz)			
Shielded Screen Room	RF Lindgren Model 26-2/2-0			6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81			R2437 (PCT278)
Environmental Chamber	Associated Systems 1025			PCT285
OATS	n/a	12/31/2004	Tri-annual	

Table 5-1. Annual Test Equipment Calibration Schedule



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EXHIBIT A – Test Results

Summary

The intentional radiator has been tested in a simulated typical installation to demonstrate compliance with the relevant FCC performance and procedural standards.

The radio was transmitting at full power on the specified channels and at a data rate(s) specified above. The channels tested are high, middle and low of the allocated bands.

Final system data was gathered in a mode that tended to maximize emissions by varying the orientation of the EUT, orientation of power and I/O cabling, antenna search height, and antenna polarization.

Test Date(s):	April 3-4, 2003
Test Engineer:	Al Cirwithian
Method/System:	Digital Transmission System (DTS)
Data Rate(s) Tested:	1Mbps, 2Mbps, 5.5Mbps, 11Mbps

FCC Part Section(s)	RSS 210 Section	Test Description	Test Limit	Result
TRANSMITTER MODE (TX)				
15.247(a)(2)		6dB Bandwidth	> 500kHz	Pass
15.247(b)	6.22(o)(b)	Transmitter Output Power	< 1 Watt	Pass
15.237(d)	6.2.2(o)(b)	Transmitter Power Spectral Density	< 8dBm / 3kHz	Pass
15.247(c)	5.9.1 6.2.2(o) (e1)	Occupied BandEdge Out-of-Band Emissions (BandEdge at 20dB below)	Radiated <20dBc. Emissions in restricted bands must meet the radiated limits detailed in 15.207	Pass
15.205 15.209	6.2.1 6.3	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	< FCC 15.209 limits or < RSS-210 table 3 limits Emissions in restricted bands must meet the radiated limits detailed in 15.207	Pass
15.207	6.6	AC Conducted Emissions 150kHz – 30MHz	EN55022	Pass
RECEIVER MODE (RX)				
15.207	7.4	AC Conducted Emissions 150kHz – 30MHz	Class B = 250µV	Pass
15.209	7.3	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	< FCC 15.209 limits or < RSS-210 table 3 limits	Pass

Table A-1. Summary of Test Results



PCTEST LAB TEST REPORT Part 15.247	 PCTEST ENGINEERING LAB., INC.	FCC MEASUREMENT REPORT		Reviewed by: Quality Manager
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EXHIBIT A – Test Results (Cont.)

6dB Bandwidth Measurement

§15.247(a)(2)

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard – The transmitter shall have a minimum 6dB bandwidth of 500kHz (0.5MHz)

The spectrum analyzer is set to:

- RBW = 100 kHz (7dB/div)
- VBW = 100 kHz
- Span = 40 MHz
- Ref. Level = 5 dBm
- Sweep = 5.154 ms

Frequency (MHz)	Channel No.	Test Results		
		6dB Bandwidth (MHz)	6dB BW Limit (MHz)	Pass/Fail
2412	1	11.80	0.5	Pass
2437	6	11.90	0.5	Pass
2462	11	11.30	0.5	Pass

– See next pages for actual measured spectrum plots

Table A-2. Conducted Bandwidth Measurements

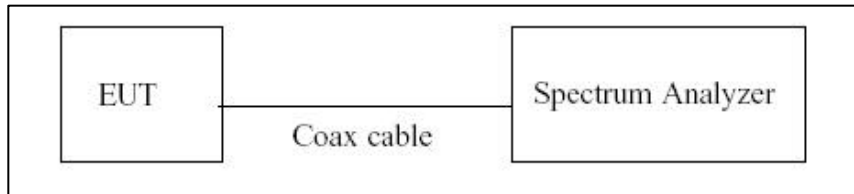


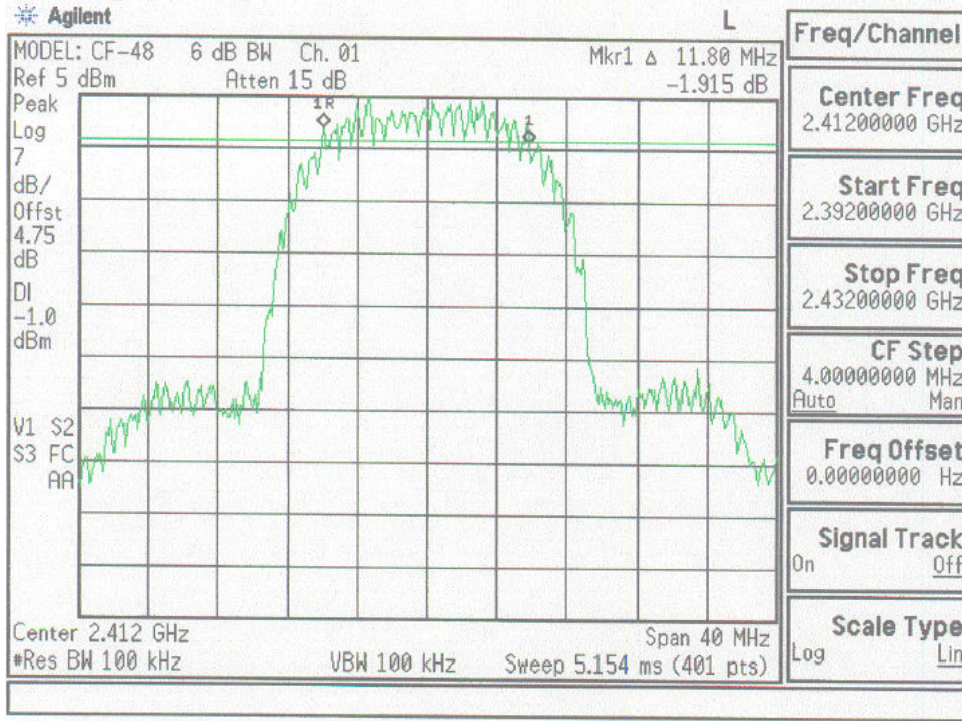
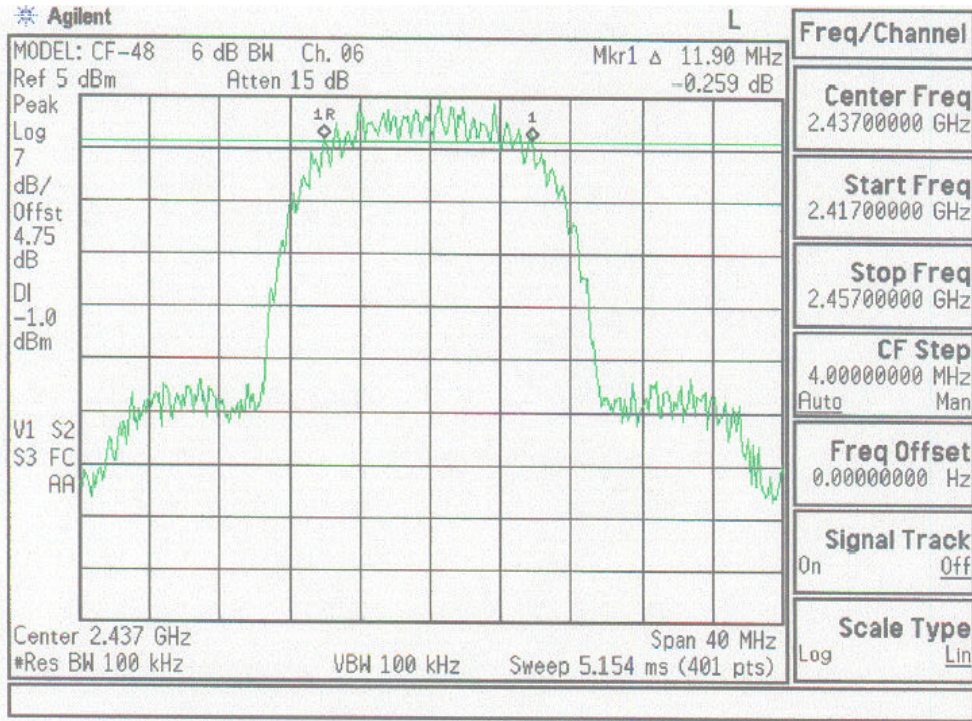


Figure A-1. Test Instrument & Measurement Setup

PCTEST LAB TEST REPORT Part 15.247	 FCC MEASUREMENT REPORT		Reviewed by: Quality Manager
Filename: 15_230328176.ACJ	Test Dates: April 3-4, 2003	EUT Type: Panasonic Toughbook CF-48 w/ Intel WLAN FCC ID: PD9WM3B2100	FCC ID: ACJ9TGCF-482
			Page 10 of 44

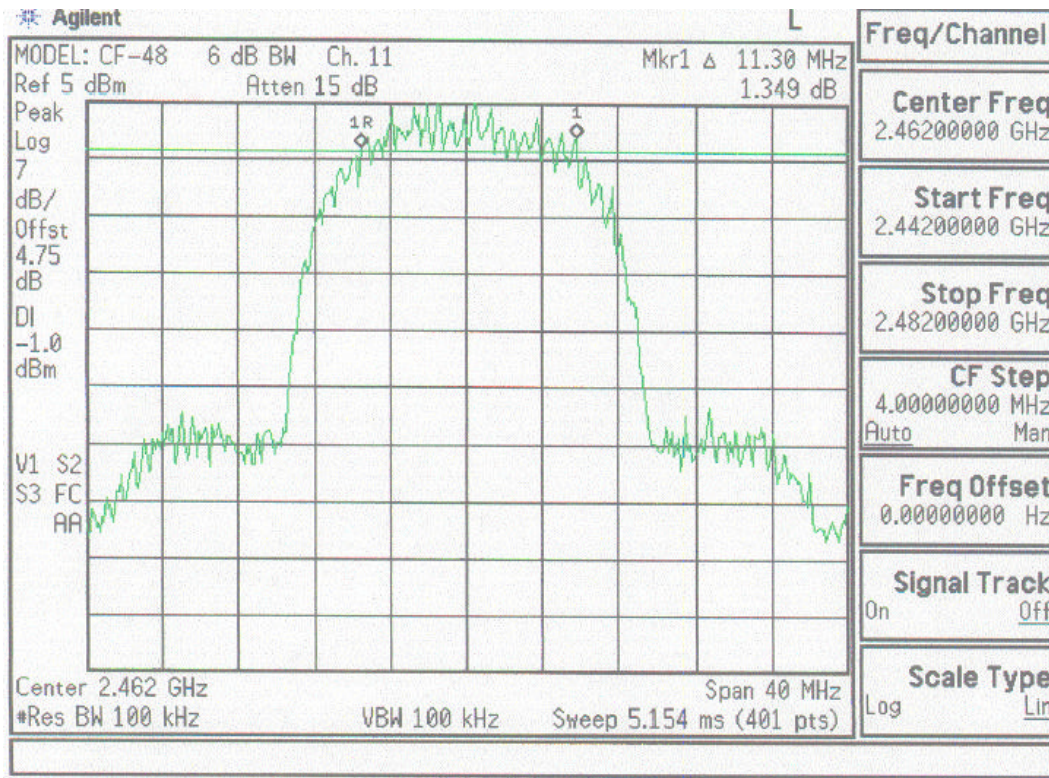


Plot A-1. 6dB Bandwidth Plot – Ch.1



Plot A-2. 6dB Bandwidth Plot – Ch.6

PCTEST LAB TEST REPORT Part 15.247	PCTEST ENGINEERING LAB., INC.	FCC MEASUREMENT REPORT	Panasonic	Reviewed by: Quality Manager
Filename: 15_230328176.ACJ	Test Dates: April 3-4, 2003	EUT Type: Panasonic Toughbook CF-48 w/ Intel WLAN FCC ID: PD9WM3B2100	FCC ID: ACJ9TGCF-482	Page 11 of 44



Plot A-3. 6dB Bandwidth Plot – Ch.11



PCTEST LAB TEST REPORT Part 15.247	 PCTEST ENGINEERING LAB., INC.	FCC MEASUREMENT REPORT		Reviewed by: Quality Manager
Filename: 15.230328176.ACJ	Test Dates: April 3-4, 2003	EUT Type: Panasonic Toughbook CF-48 w/ Intel WLAN FCC ID: PD9WM3B2100	FCC ID: ACJ9TGCF-482	Page 12 of 44

EXHIBIT A – Test Results (Cont.)

Output Power Measurement

§15.247(b)

A transmitter antenna terminal of EUT is connected to the input of a RF power sensor. Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard – The transmitter peak output power shall not exceed 1 watt.

Spectrum Analyzer plots are for reference only actual Conducted power measurements were taken with a power meter.

Frequency (MHz)	Channel No.	Test Results			
		Power Output (dBm)	Margin (dB)	Limit (MHz)	Power Output (W)
2412	1	16.52	-13.48	+ 30 dBm	0.0223
2437	6	16.53	-13.47	+ 30 dBm	0.0223
2462	11	16.51	-13.46	+ 30 dBm	0.0222

See next pages for spectrum plots (Reference Only). Actual data is taken with a peak power meter.
Max. Peak Power + Attenuation = dBm ⇒ Watts.

Table A-3. Conducted Output Power Measurements

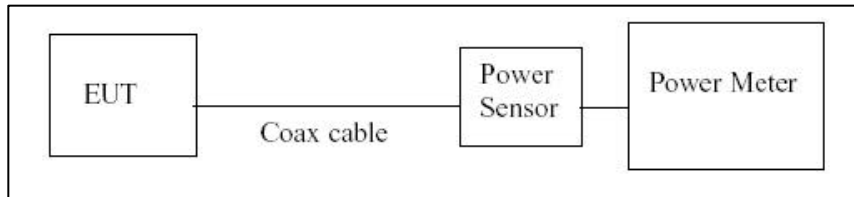


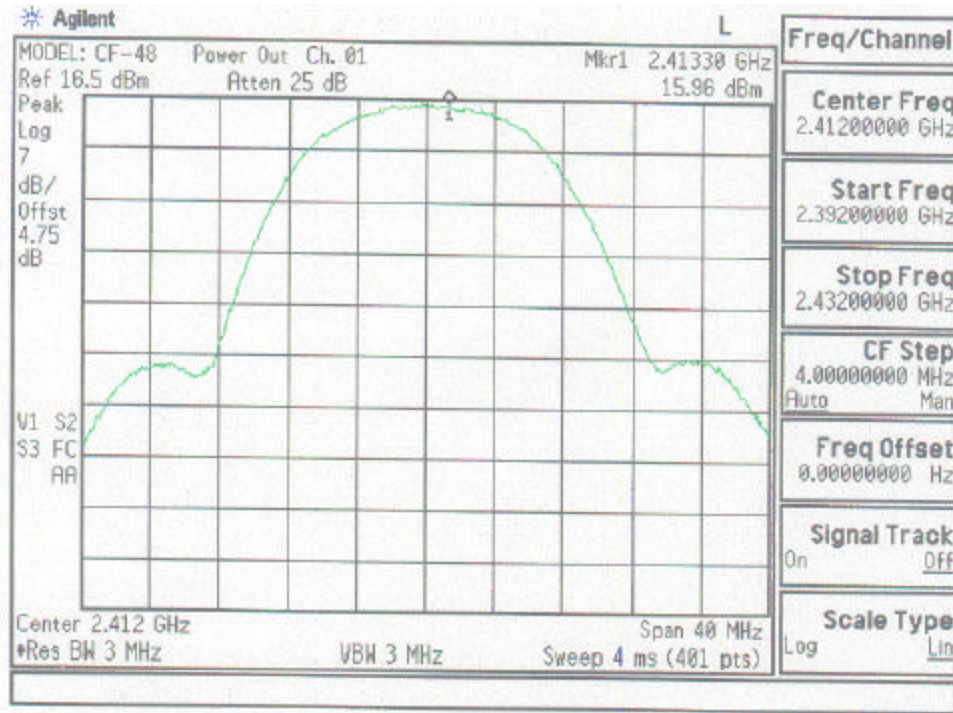
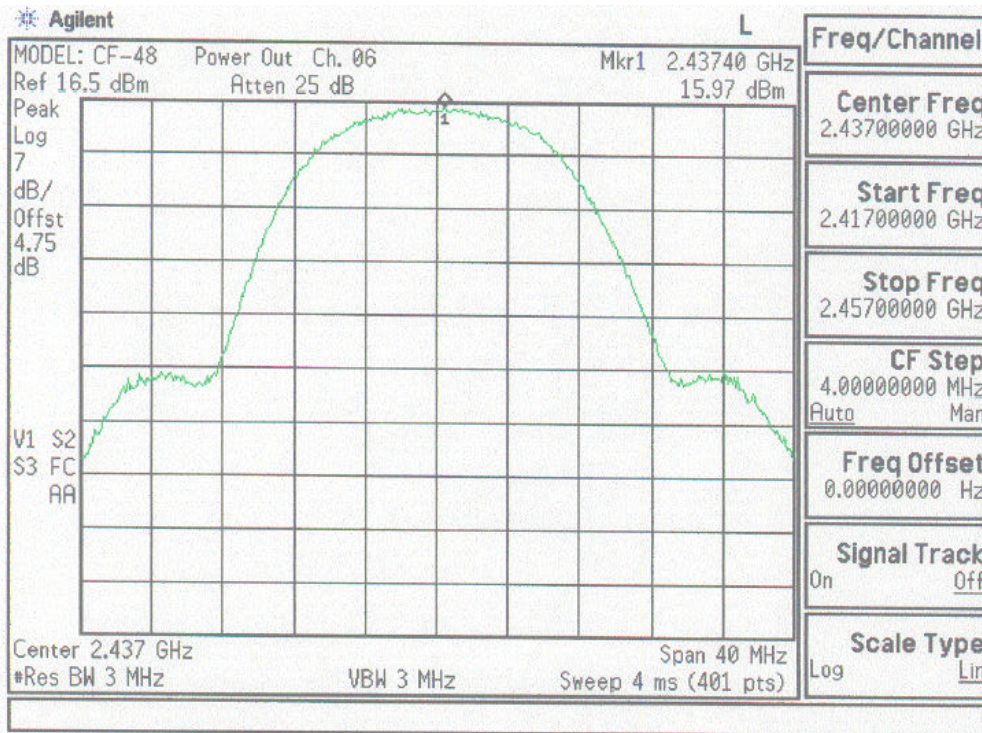


Figure A-2. Test Instrument & Measurement Setup

PCTEST LAB TEST REPORT Part 15.247	 PCTEST ENGINEERING LAB., INC.	FCC MEASUREMENT REPORT		Reviewed by: Quality Manager
Filename: 15_230328176.ACJ	Test Dates: April 3-4, 2003	EUT Type: Panasonic Toughbook CF-48 w/ Intel WLAN FCC ID: PD9WM3B2100	FCC ID: ACJ9TGCF-482	Page 13 of 44

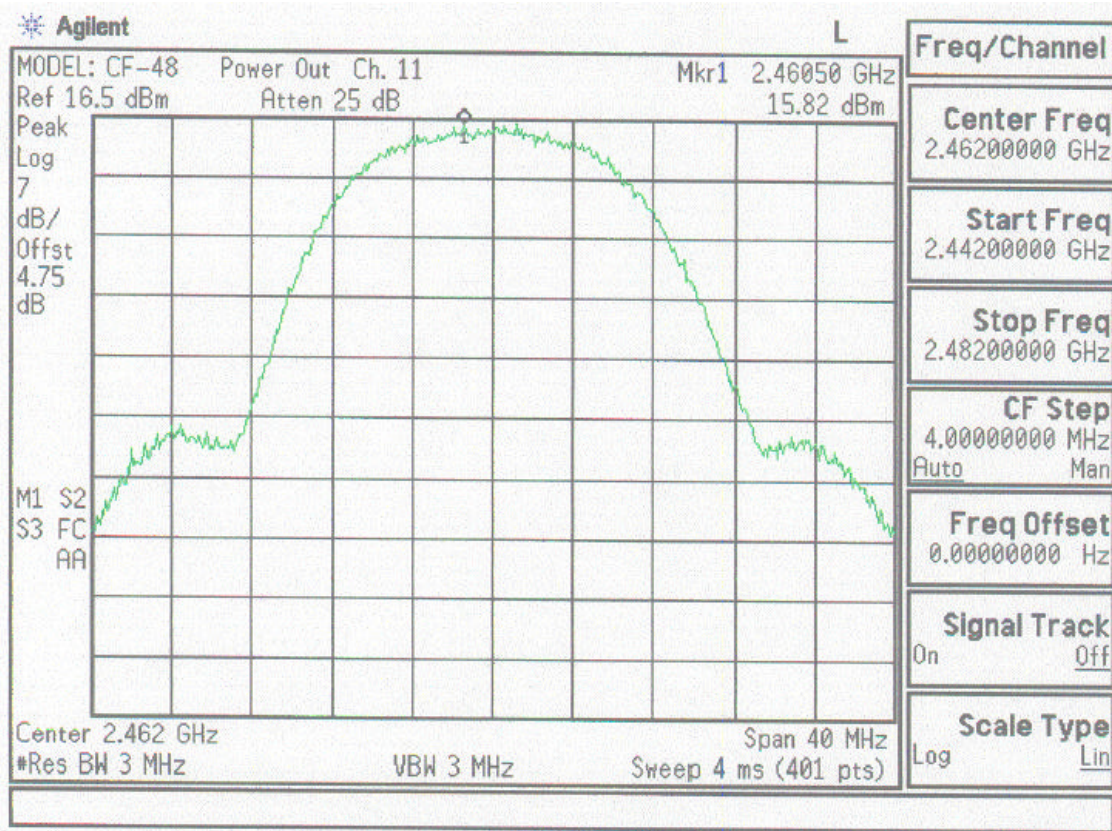


Plot A-4. Max. Peak Output Power Plot – Ch.1



Plot A-5. Max. Peak Output Power Plot – Ch.6

PCTEST LAB TEST REPORT Part 15.247	PCTEST ENGINEERING LAB., INC.	FCC MEASUREMENT REPORT	Panasonic	Reviewed by: Quality Manager
Filename: 15_230328176.ACJ	Test Dates: April 3-4, 2003	EUT Type: Panasonic Toughbook CF-48 w/ Intel WLAN FCC ID: PD9WM3B2100	FCC ID: ACJ9TGCF-482	Page 14 of 44



Plot A-6. Max. Peak Output Power Plot – Ch.11

PCTEST LAB TEST REPORT Part 15.247	PCTEST ENGINEERING LAB., INC.	FCC MEASUREMENT REPORT	Panasonic	Reviewed by: Quality Manager
Filename: 15.230328176.ACJ	Test Dates: April 3-4, 2003	EUT Type: Panasonic Toughbook CF-48 w/ Intel WLAN FCC ID: PD9WM3B2100	FCC ID: ACJ9TGCF-482	Page 15 of 44