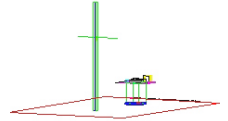


PCTEST Engineering Laboratory, Inc.

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CERTIFICATE OF COMPLIANCE

Matsushita Electric Industrial Co., Ltd.
1006 Oaza Kadoma, Kadoma, Osaka
571 JAPAN

Attn: K. Nawata (KMECL)
Rich Mullen (PSCD, MECA)

Dates of Tests: November 18-20, 2002

Test Report S/N: 15.221107623.ACJ

Test Site: PCTEST Lab, Columbia MD

FCC ID

ACJ96NKX-TD7680

APPLICANT

Matsushita Electric Industrial Co., Ltd.

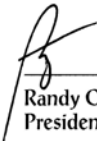
FCC Rule Part(s): § 15.247; ANSI C-63.4 (1992)
 Classification: Part 15 Spread Spectrum Transmitter (FHSS)
 Max Output Power: 0.300W EIRP
 Method/System: Frequency Hopping Spread Spectrum (FHSS)
 Equipment Type: 2.4 GHz FHSS Cordless Phone Handset
 Frequency Range: 2401.056 – 2479.680 MHz
 Model No(s): KX-TD7680

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.

I 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.

Power output is conducted. This transmitter has been tested for SAR compliance for head and body-worn configurations. SAR compliance for body-worn operating configurations is limited to the specific belt-clip tested for this filing. Users must be informed of the operating requirements for satisfying body-worn RF exposure compliance. The highest reported SAR value is Head: 0.483 W/kg; Body: 0.278 W/kg at 25 % duty factor.

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.


Randy Ortanez
President





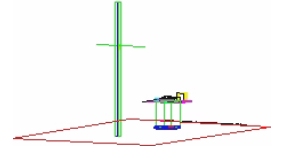
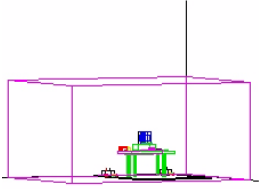
PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680
			Page 1 of 17

TABLE OF CONTENTS

SCOPE		3
INTRODUCTION (SITE DESCRIPTION)		4
PRODUCT INFORMATION		5
DESCRIPTION OF TESTS		
A. CONDUCTED EMISSIONS		6
B. RADIATED EMISSIONS		7
C. RESTRICTED BANDS		8
D. ANTENNA REQUIREMENT		9
E. MAXIMUM PEAK POWER OUTPUT		10
F. CHANNEL SPACING		11
RADIATED MEASUREMENTS Data (HARMONICS)		12-14
FREQUENCY MEASUREMENTS (SPURIOUS)		15
LIST OF TEST EQUIPMENT		16
CONCLUSION		17
APPENDIX A - TEST PLOTS		
APPENDIX B - FCC ID LABEL & LOCATION		
APPENDIX C - TEST SETUP PHOTOGRAPHS		
APPENDIX D - EXTERNAL PHOTOGRAPHS		
APPENDIX E - INTERNAL PHOTOGRAPHS		
APPENDIX F - BLOCK DIAGRAM(S)		
APPENDIX G- SCHEMATIC DIAGRAM(S)		
APPENDIX H - OPERATIONAL DESCRIPTION		
APPENDIX I - USER'S MANUAL		
APPENDIX J - SAR MEASUREMENT REPORT		
APPENDIX K - SAR TEST DATA		
APPENDIX L - SAR TEST SETUP PHOTOGRAPHS		
APPENDIX M - DIPOLE VALIDATION		
APPENDIX N - PROBE CALIBRATION		

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680

MEASUREMENT REPORT




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

§2983(a) General Information

Applicant Name:	Matsushita Electric Industrial Co., Ltd.
Address:	1006 Oaza Kadoma Kadoma, Osaka 571 JAPAN
Attention:	Rich Mullen (PSCD)

- FCC ID: **ACJ96NKX-TD7680**
- Class: Spread Spectrum Transceiver (FHSS)
- Type: 2.4 GHz FHSS Cordless Phone Handset
- Freq. Range: 2401.056 – 2479.680 MHz
- Method/System: Frequency Hopping Spread Spectrum (FHSS)
- Model No(s): **KX-TD7680**
- Max. RF Output Power: 0.300W EIRP
- Rule Part(s): § 15.247; ANSI C-63.4 (1992)
- Dates of Tests: November 18-20, 2002
- Place of Tests: PCTEST Lab, Columbia, MD U.S.A.
- Test Report S/N: 15.221107623.ACJ

NOTE: The receiver portion was tested and complies with Part 15B under the verification procedure.

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680

INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-1992) and FCC Public Notice dated July 12, 1995 entitled "Guidance on Measurement for Direct Sequence Spread Spectrum 2.4 GHz FHSS Cordless Phone Handset" were used in the measurement of **Panasonic Spread Spectrum 2.4 GHz FHSS Cordless Phone Handset**.

These measurement tests were conducted at **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 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, 1992.

PCTEST Location

The map at right shows the location of the PCTEST Lab, its proximity to the FCC Lab, the Columbia vicinity area, the Baltimore-Washington International (BWI) airport, and the city of Baltimore, and the Washington, D.C. area. (see Figure1).

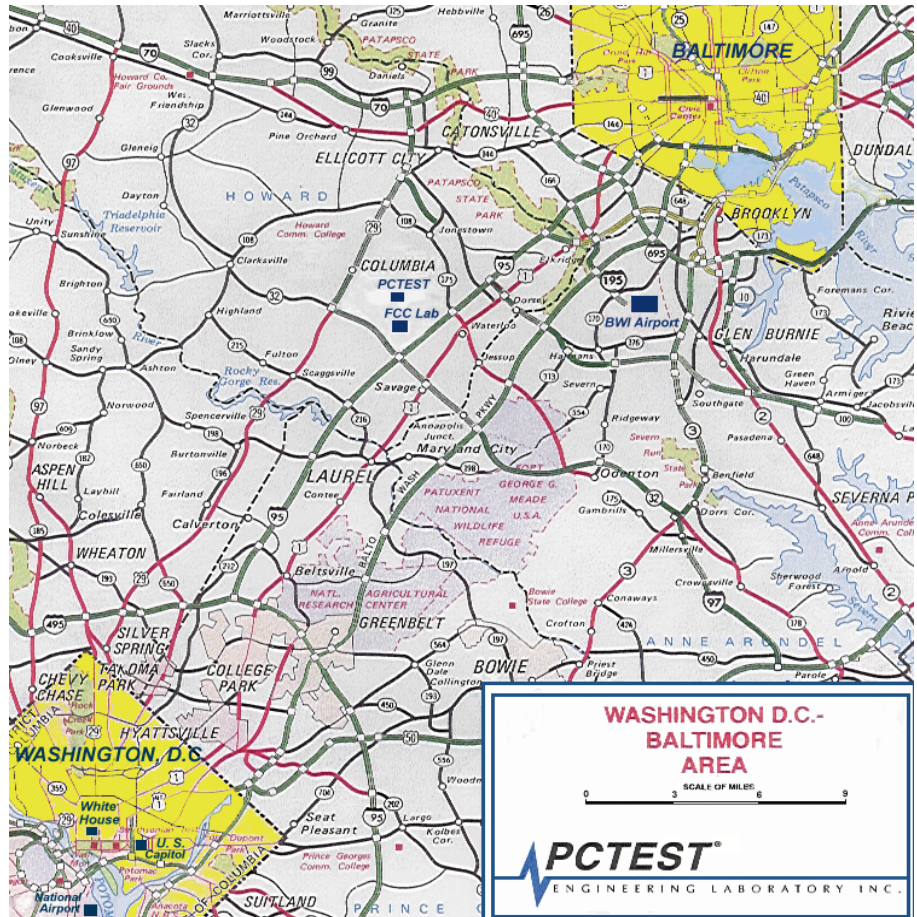


Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

PCTEST™ PT. 15.247 REPORT	EVALUATION REPORT		Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680
			Page 4 of 17

PRODUCT INFORMATION

APPENDIX B – WDCT CHANNEL CENTRE FREQUENCIES

The channel centre frequency is given by the following formula.



$$f_c = f_0 + (c \times 864 \text{ kHz})$$

$$f_0 = 2377.728 \text{ MHz}, c = 0, 1, \dots, 127$$

The performance of the RF module, and the constraints of the ISM band, limit c so that c = 27, ..., 117 which maps onto the 91 WDCT channels 0, ..., 90.

The following table shows the full list of WDCT channel centre frequencies, values are in MHz (arranged in a 10 x 10 table for convenience):

	0	1	2	3	4	5	6	7	8	9
0	2401.000	2401.920	2402.784	2403.648	2404.512	2405.376	2406.240	2407.104	2407.968	2408.832
10	2409.696	2410.560	2411.424	2412.288	2413.152	2414.016	2414.880	2415.744	2416.608	2417.472
20	2419.300	2419.200	2420.064	2420.928	2421.792	2422.656	2423.520	2424.384	2425.248	2426.112
30	2426.976	2427.840	2428.704	2429.568	2430.432	2431.296	2432.160	2433.024	2433.888	2434.752
40	2435.616	2436.480	2437.344	2438.208	2439.072	2439.936	2440.800	2441.664	2442.528	2443.392
50	2444.256	2445.120	2445.984	2446.848	2447.712	2448.576	2449.440	2450.304	2451.168	2452.032
60	2452.696	2453.560	2454.424	2455.288	2456.152	2457.016	2457.880	2458.744	2459.608	2460.472
70	2461.536	2462.400	2463.264	2464.128	2464.992	2465.856	2466.720	2467.584	2468.448	2469.312
80	2470.176	2471.040	2471.904	2472.768	2473.632	2474.496	2475.360	2476.224	2477.088	2477.952
90	2478.816	2479.680								

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT			Reviewed By: Quality Manager
Test Report S/N: 15.221107623-ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: AC196NKX-TD7680	Page 5 of 17

Description of Tests

Conducted Emissions

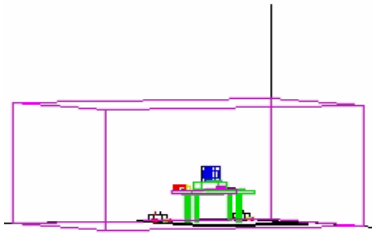


Figure 4. Shielded Enclosure Line-Conducted Test Facility

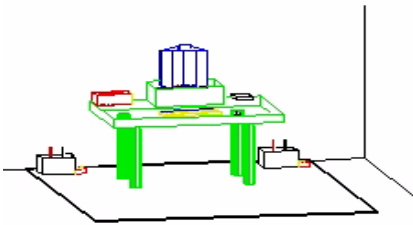


Figure 2. Line Conducted Emission Test Set-Up

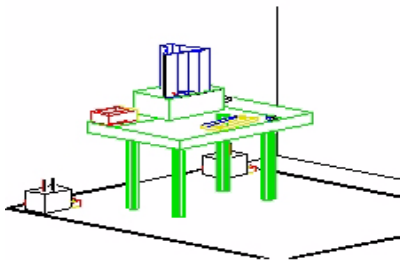


Figure 3. Wooden Table & Bonded LISNs

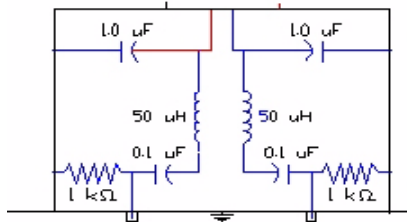




Figure 5. LISN Schematic Diagram

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure. It is manufactured by Ray Proof Series 81 (see Figure 2). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m. x 1.5m. wooden table 80cm. high is placed 40cm. away from the vertical wall and 1.5m away from the side wall of the shielded room (see Figure 3). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (see Figure 4). 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 14kHz-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 inner diameter of 1/2". 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 lines will be connected to the Solar LISN. LISN schematic diagram is shown in Figure 5. 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 450kHz to 30MHz with 20 msec. sweep time. The frequency producing the maximum level was reexamined using EMI/ Field Intensity Meter and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode. The bandwidth of the receiver was set to 10 kHz. 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 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; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Appendix C. Each EME reported was calibrated using the HP8640B signal generator.

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT		Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680 Page 6 of 17

Description of Tests (Continued)

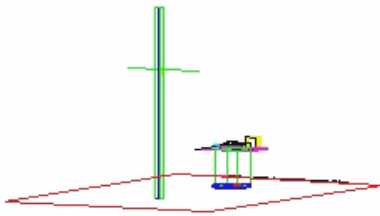


Figure 6. 3-Meter Test Site

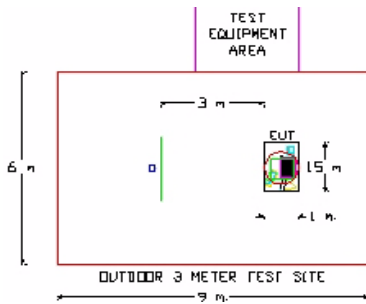


Figure 7. Dimensions of Outdoor Test Site

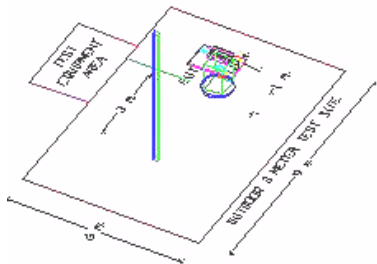


Figure 8. Turntable and System Setup

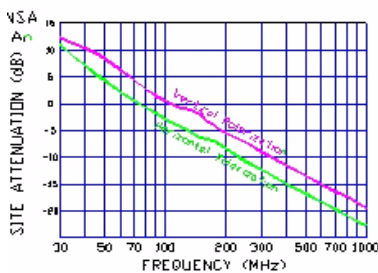


Figure 9. Normalized Site Attenuation Curves (H&V)

Radiated Emissions

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 were 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 3-meter test range using Roberts™ Dipole antennas or horn antenna (see Figure 6). 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 7). 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.

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 8). 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 Appendix C. 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 9.

PCTEST™ PT. 15.247 REPORT	EVALUATION REPORT		Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680 Page 7 of 17

§ 15.205 Restricted Bands


Special attention is made for the EUT's harmonic and spurious radiated emission in the restricted bands of operation. The EUT was tested from 9kHz and up to the tenth harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average measurements was used using RBW 1 MHz – VBW 10Hz and linearly polarized horn antennas. In addition, peak measurements were taken to ensure that the peak levels are not more than 20dB above the average limit. All out of band emissions, other than those created by the spreading sequence, data sequence, and the carrier modulation must not exceed the limits show in Table 2 per 15.209.

Frequency (MHz)	F/S (UV/m)	Meas. Dist. (Meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.00	30	30
30.0-88.0	100	3
88.0-216.0	150	3
216.0-960.0	200	3
Above 960	500	3

Tab. 2. Radiated Emission Limits Per 15.209

Test Equipment

HP 8566B	Spectrum Analyzer 100Hz-22HGhz
HP83017A	Microwave Analyzer 40dB Gain (0.5 – 26.5 GHz)
HP 3784A	Digital Transmission Analyzer
EMCO 3115	Horn Antenna (1 – 18GHz)
EMCO 3116	Horn Antenna (18 - 30GHz)
HP 8495A	20dB Attenuator (DC-40GHz) 0-70dB
HP 8493B	10dB Attenuator
MicroCoax Cables	Low Loss Microwave Cables (1-26.5 GHz)
CDI Dipoles	Dipole Antennas (30 – 1000 MHz)

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680 Page 8 of 17


§ 15.203 Antenna Requirement

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 Panasonic **KX-TD7680** unit complies with the requirement of §15.203. The antenna is a **permanently attached omni-directional antenna**.

CONCLUSION

There are no provisions for connection to an external antenna. The unit meets the Antenna Requirements of §15.203.

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680
			Page 9 of 17

§15.247(a)(2) – 20dB Bandwidth

Res. Bandwidth = 10 kHz (7dB/div)
 Vid. BW = 10 kHz
 Span = 1.5 MHz
 Ref. Level - 18.7 dBm
 Sweep 19.3ms

(see attached spectrum plots)


FREQ (MHz)	Channel	6dB Bandwidth (MHz)
2401.056	00	.649
2440.800	46	.661
2479.680	91	.697

Table 3. 20dB Bandwidth measurements

Minimum Standard – The transmitter shall have a minimum 20dB bandwidth of 1000Hz.
 These are radiated measurements.

REMARKS:

PASS

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680 Page 10 of 17

§15.247(b) Maximum Peak Output Power

Minimum Standard – The maximum peak output power of the transmitter shall not exceed 1 watt. Radiated power measurements were taken at 3 meters with a power meter.

Max. Power Peak + Atten = dBm \Rightarrow Watts


FREQ (MHz)	Channel	Power Output (dBm)	Power Output (W)
2401.056	00	24.73	0.300
2440.800	46	24.76	0.300
2479.680	91	24.70	0.300

Table 4. Output Power Measurements

Minimum Standard – The transmitter peak output power of the transmitter shall not exceed 1 watt. These are radiated measurements.

REMARKS:

PASS

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680 Page 11 of 17

RADIATED Measurements Data (Harmonics)

A. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 00

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S ($\mu\text{V}/\text{m}$)	F/S ($\text{dB}\mu\text{V}/\text{m}$)	Margin (dB)
2401	- 19.1	34.85	V	Peak	13722461	122.75	n/a
4802	- 107.8	40.39	V	Peak	95.3894	39.59	14.41
7203	- 117.2	47.42	V	Peak	72.6106	37.22	16.78
9604	- 124.2	50.30	V	Peak	45.1856	33.10	20.90
12005	- 135.0	53.70	V	Peak	19.2752	25.70	28.30

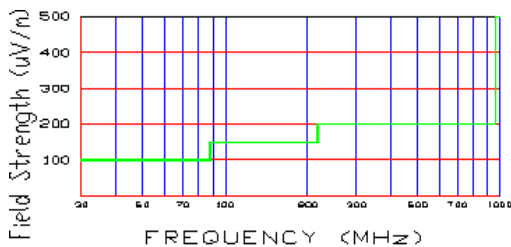




Figure 10. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 $\mu\text{V}/\text{m}$ (54 dBu/m)

NOTES:

- All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- The antenna is manipulated through typical positions, polarity and length during the tests.
- The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- < - 135 are below the analyzer floor level.

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT		Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680 Page 12 of 17

RADIATED Measurements Data (Harmonics) (CONT.)

B. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 46

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S ($\mu\text{V}/\text{m}$)	F/S ($\text{dB}\mu\text{V}/\text{m}$)	Margin (dB)
2440	- 19.3	34.95	V	Peak	1356751	122.65	n/a
4880	- 108.0	40.50	V	Peak	94.4061	39.50	14.5
7320	- 119.0	48.00	V	Peak	63.0957	36.00	18.0
9760	- 124.0	50.30	V	Peak	46.2381	33.30	20.7
12200	- 135.0	53.70	V	Peak	19.2752	25.70	28.3

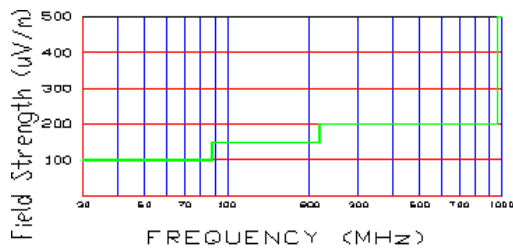


Figure 11. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 $\mu\text{V}/\text{m}$ (54 $\text{dB}\mu/\text{m}$)

NOTES:

- All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- The antenna is manipulated through typical positions, polarity and length during the tests.
- The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- < - 135 are below the analyzer floor level.

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Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680 Page 13 of 17

RADIATED Measurements Data (Harmonics) (CONT.)

C. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 91

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2479	- 19.7	35.05	V	Peak	1310690	122.35	n/a
4958	- 108.5	40.70	V	Peak	91.2011	39.20	14.8
7437	- 118.7	48.20	V	Peak	66.8344	36.50	17.5
9916	- 124.2	50.40	V	Peak	45.7088	33.20	20.8
12395	- 135.0	53.80	V	Peak	19.4984	25.80	28.2

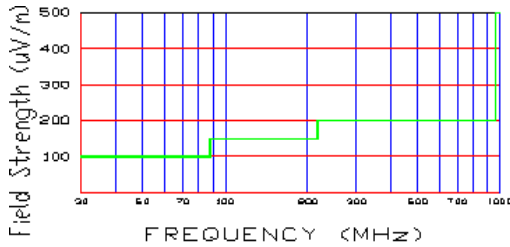



Figure 12. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fullly recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 are below the analyzer floor level.

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680 Page 14 of 17

RADIATED Measurements (Spurious)

Transmitter Portion

Distance of Measurements: 3 meters

Channels: 46

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	Height (m)	Azimuth (° angle)	F/S (μ V/m)	Margin*** (dB)
124.4	- 85.0	11.8	H	2.6	220	49.0	- 9.7
129.6	- 87.0	12.2	H	2.5	200	40.8	- 11.3
152.1	- 88.6	13.7	V	2.3	190	40.3	- 11.4
180.2	- 88.8	15.5	V	2.0	315	48.5	- 9.8
235.1	- 87.2	18.1	V	1.5	180	78.6	- 8.1
360.4	- 92.3	22.6	H	1.3	180	73.3	- 8.7

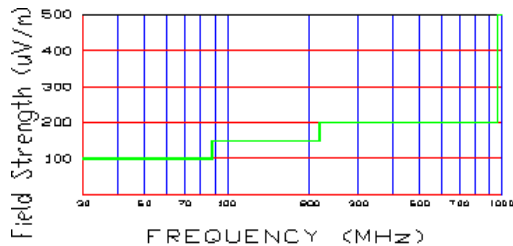



Figure 13. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:


1. All emissions were investigated and the worst case emissions are reported
2. For hand-held devices, the EUT is rotated through three orthogonal axis to determine which configuration produces the maximum emissions
3. The EUT is supplied with the minimal AC voltage or/and a new/fully recharged battery.
4. The EUT was tested up to the 10th harmonic (9.3 GHz) and no significant emission was found.

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680 Page 15 of 17

TEST EQUIPMENT


Type	Model	Cal. Due Date	S/N
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	12/05/03	3638A08713
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	04/17/03	2542A11898
Spectrum Analyzer/Tracking Gen.	HP 8591A (9kHz-1.8GHz)	06/02/03	3144A02458
Spectrum Analyzer	HP 8591A (9kHz-1.8GHz)	10/15/03	3108A02053
Spectrum Analyzer	HP 8594A (9kHz-2.9GHz)	11/02/03	3051A00187
Signal Generator*	HP 8640B (500Hz-1GHz)	06/02/03	2232A19558
Signal Generator*	HP 8640B (500Hz-1GHz)	06/02/03	1851A09816
Signal Generator*	Rohde & Schwarz (0.1-1000MHz)	09/11/03	894215/012
Ailtech/Eaton Receiver	NM 37/57A-SL (30-1000MHz)	04/12/03	0792-03271
Ailtech/Eaton Receiver	NM 37/57A (30-1000MHz)	03/11/03	0805-03334
Ailtech/Eaton Receiver	NM17/27A (0.1-32MHz)	09/17/03	0608-03241
Quasi-Peak Adapter	HP 85650A	08/09/03	2043A00301
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	03/11/03	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	EMCO Model 3115 (1-18GHz)		9704-5182
Horn Antenna	EMCO Model 3115 (1-18GHz)		9205-3874
Horn Antenna	EMCO Model 3116 (18-40GHz)		9203-2178
Biconical Antenna (4)	Eaton 94455/Eaton 94455-1/Singer 94455-1/Compliance Design 1295, 1332, 0355		
Log-Spiral Antenna (3)	Ailtech/Eaton 93490-1		0608, 1103, 1104
Roberts Dipoles	Compliance Design (1 set) A100		5118
Ailtech Dipoles	DM-105A (1 set)		33448-111
EMCO LISN (2)	3816/2		1077, 1079
EMCO LISN	3725/2		2009
Microwave Preamplifier 40dB Gain	HP 83017A (0.5-26.5GHz)		3123A00181
Microwave Cables	MicroCoax (1.0-26.5GHz)		
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		3106A02189
Noise Figure Meter	Ailtech 7510		TE31700
Noise Generator	Ailtech 7010		1473
Microwave Survey Meter	Holaday Model 1501 (2.450GHz)		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 Model 1025 (Temperature/Humidity)		PCT285

* Calibration traceable to the National Institute of Standards and Technology (NIST).

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680
			Page 16 of 17

Conclusion

The data collected shows that the **Panasonic 2.4 GHz FHSS Cordless Phone Handset FCC ID: ACJ96NKX-TD7680** complies with Part 15C of the FCC Rules.

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT	Panasonic	Reviewed By: Quality Manager
Test Report S/N: 15.221107623.ACJ	Test Dates: Nov. 18-20, 2002	EUT Type: 2.4 GHz FHSS Cordless Phone Handset	FCC ID: ACJ96NKX-TD7680
			Page 17 of 17