



**TEST REPORT OF A 2.4 GHz WIRELESS  
BLUETOOTH HANDY PRINTER,  
BRAND PANASONIC, MODEL JT-H200PR-\*\*,  
IN CONFORMITY WITH 47 CFR PART 15 (2003-07-22).**

FCC listed : 90828  
Industry Canada : IC3501  
VCCI registered : R-1518, C-1598

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Test specification(s): 47 CFR Part 15 (2003-07-22)  
Description of EUT: Wireless Bluetooth Handy Printer  
Manufacturer: Matsushita Electric Industrial Co., Ltd.  
Brand mark: Panasonic  
Model: JT-H200PR-\*\*  
FCC ID: ACJJT-H200PR

## MEASUREMENT/TECHNICAL REPORT

**Panasonic**

**Model : JT-H200PR-\*\***

**FCC ID: ACJJT-H200PR**

September 4, 2003

This report concerns:	Original grant/certification	<del>Class 2 change</del>	<del>Verification</del>
Equipment type:	Wireless Bluetooth Handy Printer		
Deferred grant requested per 47 CFR 0.457(d)(1)(ii) ?	<del>Yes</del>	No	
Report prepared by:	Name	: H. J. Pieters	
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The data taken for this test and report herein was done in accordance with 47 CFR Part 15 and the measurement procedures of ANSI C63.4-1992. TNO Electronic Products & Services (EPS) B.V. at Niekerk, The Netherlands, certifies that the data is accurate and contains a true representation of the emission profile of the Equipment Under Test (EUT) on the date of the test as noted in the test report. I have reviewed the test report and find it to be an accurate description of the test(s) performed and the EUT so tested.

Date: September 4, 2003

Signature:

P.A.J.M. Robben, B.Sc.E.E.  
TNO Electronic Products & Services (EPS) B.V.



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Model: JT-H200PR-\*\*  
FCC ID: ACJJT-H200PR

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### Description of test item

Test item : Wireless Bluetooth Handy Printer  
Manufacturer : Matsushita Electric Co., Ltd.  
Brand : Panasonic  
Model : JT-H200PR-\*\*  
Serial numbers : 202009100  
Receipt number : 1  
Receipt date : September 3, 2003

### Applicant information

Applicant's representative : Mr. Wouters  
Company : Telefication b.v.  
Address : Edisonstraat 12a  
Postal code : 6902 PK  
City : Zevenaar  
PO-box : -  
Postal code : -  
City : -  
Country : The Netherlands  
Telephone number : +31 (0)316 583180  
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### Test(s) performed

Location : Niekerk  
Test(s) started : September 4, 2003  
Test(s) completed : September 4, 2003  
Purpose of test(s) : Type approval / certification  
Test specification(s) : 47 CFR Part 15 (2003-07-22)

Test engineer : H. J. Pieters

Report written by : H. J. Pieters

Project leader : P.A.J.M. Robben, B.Sc.E.E.

This report is in conformity with NEN-EN-ISO/IEC 17025.

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The test results relate only to the item(s) tested.



Test specification(s): 47 CFR Part 15 (2003-07-22)  
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## **Table of contents**

1	General information.....	5
1.1	Product description.....	5
1.2	Related submittal(s) and/or Grant(s).....	5
1.3	Tested system details.....	5
1.4	Test methodology.....	6
1.5	Test facility.....	6
1.6	Product labeling.....	6
2	System test configuration.....	7
2.1	Justification.....	7
2.2	Special accessories.....	7
2.3	Equipment modifications.....	7
2.4	Configuration of the tested system.....	7
2.5	EUT exercise software.....	8
2.6	Special accessories.....	8
2.7	Equipment modifications.....	8
2.8	Configuration of the tested system.....	8
2.9	Block diagram(s) of the EUT.....	8
3	Radiated emission data.....	9
3.1	Test results with EUT operating in receive mode on channel 1.....	9
3.2	Test results with EUT operating in receive mode on channel 2.....	10
3.3	Test results with EUT operating in receive mode on channel 3.....	11
3.4	Test results with EUT operating in transmit mode on channel 1.....	12
3.5	Test results with EUT operating in transmit mode on channel 2.....	13
3.6	Test results with EUT operating in transmit mode on channel 3.....	14
4	List of utilized test equipment.....	15



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Model: JT-H200PR-\*\*  
FCC ID: ACJJT-H200PR

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## 1 General information.

### 1.1 Product description.

The Wireless Bluetooth Handy Printer, brand Panasonic, model JT-H200PR-\*\* is designed to operate in the 2400 MHz to 2483.5 MHz frequency band, as specified by the Federal Communications Commission in the USA.

The Wireless Bluetooth Handy Printer, brand Panasonic, model JT-H200PR-\*\*, is a stand-alone accessory with integrated radio and an integrated antenna.

All measurements are carried out in accordance with document DA 00-705 of March 30, 2000, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

### 1.2 Related submittal(s) and/or Grant(s).

Not applicable.

### 1.3 Tested system details.

Details and an overview of the system and all its components, as it has been tested, can be found in table 1 below. FCC ID's are stated in this overview where applicable. The EUT is listed in the first row of this table 1.

Description	Model number	Serial nr.	FCC ID	Cable descriptions
Wireless Bluetooth Handy Printer	JT-H200PR-**	202009100	-	Flat cable

Table 1 - Tested system details overview.



**Test specification(s):** 47 CFR Part 15 (2003-07-22)  
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**Manufacturer:** Matsushita Electric Industrial Co., Ltd.  
**Brand mark:** Panasonic  
**Model:** JT-H200PR-\*\*  
**FCC ID:** ACJJT-H200PR

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## **1.4 Test methodology.**

The test methodology used is based on the requirements of 47 CFR Part 15 (2003-07-22), sections 15.109 and 15.209.

The test methods, which have been used, are based on ANSI C63.4: 1992.

Radiated emission tests above 30 MHz were performed at a measurement distance of 3 meters.

The bandwidth of the receiver is switching automatically to the right bandwidth in accordance with CISPR 16. This is implemented in the receiver. The antenna factors are programmed in the test receiver. The receiver automatically calculates the appropriate correction factor for the utilized antenna and also the appropriate antenna factor for the cable loss. The total correction is automatically added to the measured value.

## **1.5 Test facility.**

The Federal Communications Commission has reviewed the technical characteristics of the test facilities at TNO Electronic Products & Services (EPS) B.V., located in Niekerk, 9822 TL Smidshornerweg 18, The Netherlands, and has found these test facilities to be in compliance with the requirements of 47 CFR Part 15, section 2.948, per October 23, 2000.

The description of the test facilities has been filed under registration number 90828 at the Office of the Federal Communications Commission. The facility has been added to the list of laboratories performing these test services for the public on a fee basis.

The list of all public test facilities is available on the Internet at <http://www.fcc.gov>.

## **1.6 Product labeling.**

In accordance with 47 CFR Part 15.19 (a)(3) the following text shall be placed on a label, which is attached to the EUT:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

In accordance with 47 CFR Part 2.925 (a)(1), the FCC ID shall be placed on a label, which is attached to the EUT.

For further details about the labeling requirements (size, legibility, etc.) as set by the Federal Communications Commission see 47 CFR Part 15.19 (a)(3), 47 CFR Part 15.19 (b)(2), 47 CFR Part 15.19 (b)(4), 47 CFR Part 2.925 and 47 CFR Part 2.926.



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## 2 System test configuration.

### 2.1 Justification.

The system was configured for testing in a typical fashion (as a customer would normally use it).

The justification and manipulation of cables and equipment in order to simulate a worst-case behavior of the test setup has been carried out as prescribed in ANSI C63.4: 1992.

Tests were performed at the lowest operating frequency (2402 MHz), the operating frequency in the middle of the specified frequency band (2441 MHz) and the highest operating frequency (2480 MHz). Further details may be found in table 2 below.

Channel	Operating frequencies (MHz)	Rated output power (dBm)	Test performed
1	2402	-	yes
2	2441	-	yes
3	2480	-	yes

Table 2 - Specification of test channels.

### 2.2 Special accessories.

No special accessories are used and/or needed to achieve compliance with the appropriate sections of 47 CFR Part 15.

### 2.3 Equipment modifications.

No modifications have been made to the equipment in order to achieve compliance with the appropriate sections of 47 CFR Part 15.

### 2.4 Configuration of the tested system.

Unit title : Wireless Bluetooth Handy Printer  
Model number : JT-H200PR-\*\*  
Part number : 202009100  
FCC ID : -  
Description/details : See section 1.1 of this test report  
Power supply : +7.2 Volts DC (Battery powered)  
Cabinet & Screening : Not applicable  
Interface Cable(s) : Not applicable  
Method of screening : Not applicable  
Method of grounding : Not applicable  
Operating configuration : See section 2.1 of this test report



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## **2.5 EUT exercise software.**

The EUT could be enabled to transmit or receive by means of test software, which was supplied by the manufacturer of the EUT.

## **2.6 Special accessories.**

No special accessories are used and/or needed to achieve compliance with the appropriate sections of 47 CFR Part 15.

## **2.7 Equipment modifications.**

No modifications have been made to the equipment in order to achieve compliance with the appropriate sections of 47 CFR Part 15.

## **2.8 Configuration of the tested system.**

Not applicable. See table 1 in section 1.3 of this test report.

## **2.9 Block diagram(s) of the EUT.**

The block diagram is available as part of the documentation which is to be submitted to the FCC/TCB.



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### 3 Radiated emission data.

#### 3.1 Test results with EUT operating in receive mode on channel 1.

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15.109 and 47 CFR Part 15.209 with the EUT operating in receive mode on 2402 MHz, are depicted in table 3.

Frequency (MHz)	Measurement results dB( $\mu$ V)/m @ 3 meters Quasi-peak		Limits dB( $\mu$ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
30 – 88	< 10.0	< 10.0	40.0	-	-	PASS
88 – 216	< 10.0	< 10.0	43.5	-	-	PASS
216 – 256.87	< 10.0	< 10.0	46.0	-	-	PASS
256.87	< 10.0	30.9	46.0	-	-15.1	PASS
348.00	20.5	31.2	46.0	-25.5	-14.8	PASS
480.00	32.6	35.5	46.0	-13.4	-9.5	PASS
576.00	31.4	29.8	46.0	-14.6	-16.2	PASS
576.00 – 960	< 10.0	< 10.0	46.0	-	-	PASS
960 – 1000	< 10.0	< 10.0	54.0	-	-	PASS

Table 3 - Test results with the EUT operating in receive mode on 2402 MHz.

Note: Field strength values of radiated emissions at frequencies not listed in table 3 are more than 20 dB below the applicable limit.

Test engineer

Signature :

Name : H. J. Pieters

Date : September 4, 2003



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### 3.2 Test results with EUT operating in receive mode on channel 2.

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15.109 and 47 CFR Part 15.209 with the EUT operating in receive mode on 2441 MHz, are depicted in table 4.

Frequency (MHz)	Measurement results dB( $\mu$ V)/m @ 3 meters Quasi-peak		Limits dB( $\mu$ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
30 – 88	< 10.0	< 10.0	40.0	-	-	PASS
88 – 216	< 10.0	< 10.0	43.5	-	-	PASS
216 – 256.87	< 10.0	< 10.0	46.0	-	-	PASS
256.87	< 10.0	30.9	46.0	-	-15.1	PASS
348.00	20.5	31.2	46.0	-25.5	-14.8	PASS
480.00	32.6	35.5	46.0	-13.4	-9.5	PASS
576.00	31.4	29.8	46.0	-14.6	-16.2	PASS
576.00 – 960	< 10.0	< 10.0	46.0	-	-	PASS
960 – 1000	< 10.0	< 10.0	54.0	-	-	PASS

Table 4 - Test results with the EUT operating in receive mode on 2441 MHz.

Note: Field strength values of radiated emissions at frequencies not listed in table 4 are more than 20 dB below the applicable limit.

Test engineer

Signature

Name : H. J. Pieters

Date : September 4, 2003



Test specification(s): 47 CFR Part 15 (2003-07-22)  
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### 3.3 Test results with EUT operating in receive mode on channel 3.

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15.109 and 47 CFR Part 15.209 with the EUT operating in receive mode on 2480 MHz, are depicted in table 5.

Frequency (MHz)	Measurement results dB( $\mu$ V)/m @ 3 meters Quasi-peak		Limits dB( $\mu$ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
30 – 88	< 10.0	< 10.0	40.0	-	-	PASS
88 – 216	< 10.0	< 10.0	43.5	-	-	PASS
216 – 256.87	< 10.0	< 10.0	46.0	-	-	PASS
256.87	< 10.0	30.9	46.0	-	-15.1	PASS
348.00	20.5	31.2	46.0	-25.5	-14.8	PASS
480.00	32.6	35.5	46.0	-13.4	-9.5	PASS
576.00	31.4	29.8	46.0	-14.6	-16.2	PASS
576.00 – 960	< 10.0	< 10.0	46.0	-	-	PASS
960 – 1000	< 10.0	< 10.0	54.0	-	-	PASS

Table 5 - Test results with the EUT operating in receive mode on 2480 MHz.

Note: Field strength values of radiated emissions at frequencies not listed in table 5 are more than 20 dB below the applicable limit.

Test engineer

Signature : 

Name : H. J. Pieters

Date : September 4, 2003



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### 3.4 Test results with EUT operating in transmit mode on channel 1.

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15.109, 47 CFR Part 15.209 and 47 CFR Part 15.205 (restricted bands of operation) with the EUT operating in transmit mode on 2402 MHz, are depicted in table 6.

Frequency (MHz)	Measurement results dB( $\mu$ V)/m @ 3 meters Quasi-peak		Limits dB( $\mu$ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
30 – 88	< 10.0	< 10.0	40.0	-	-	PASS
88 – 216	< 10.0	< 10.0	43.5	-	-	PASS
216 – 256.87	< 10.0	< 10.0	46.0	-	-	PASS
256.87	< 10.0	30.9	46.0	-	-15.1	PASS
348.00	20.5	31.2	46.0	-25.5	-14.8	PASS
480.00	32.6	35.5	46.0	-13.4	-9.5	PASS
576.00	31.4	29.8	46.0	-14.6	-16.2	PASS
576.00 – 960	< 10.0	< 10.0	46.0	-	-	PASS
960 – 1000	< 10.0	< 10.0	54.0	-	-	PASS

Table 6 - Test results with the EUT operating in transmit mode on 2402 MHz.

Note: Field strength values of radiated emissions at frequencies not listed in table 6 are more than 20 dB below the applicable limit.

Test engineer

Signature : 

Name : H. J. Pieters

Date : September 4, 2003



Test specification(s): 47 CFR Part 15 (2003-07-22)  
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Model: JT-H200PR-\*\*  
FCC ID: ACJJT-H200PR

### 3.5 Test results with EUT operating in transmit mode on channel 2.

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15.109, 47 CFR Part 15.209 and 47 CFR Part 15.205 (restricted bands of operation) with the EUT operating in transmit mode on 2441 MHz, are depicted in table 7.

Frequency (MHz)	Measurement results dB( $\mu$ V)/m @ 3 meters Quasi-peak		Limits dB( $\mu$ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
30 – 88	< 10.0	< 10.0	40.0	-	-	PASS
88 – 216	< 10.0	< 10.0	43.5	-	-	PASS
216 – 256.87	< 10.0	< 10.0	46.0	-	-	PASS
256.87	< 10.0	30.9	46.0	-	-15.1	PASS
348.00	20.5	31.2	46.0	-25.5	-14.8	PASS
480.00	32.6	35.5	46.0	-13.4	-9.5	PASS
576.00	31.4	29.8	46.0	-14.6	-16.2	PASS
576.00 – 960	< 10.0	< 10.0	46.0	-	-	PASS
960 – 1000	< 10.0	< 10.0	54.0	-	-	PASS

Table 7 - Test results with the EUT operating in transmit mode on 2441 MHz.

Note: Field strength values of radiated emissions at frequencies not listed in table 7 are more than 20 dB below the applicable limit.

Test engineer

Signature

Name : H. J. Pieters

Date : September 4, 2003



Test specification(s): 47 CFR Part 15 (2003-07-22)  
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Brand mark: Panasonic  
Model: JT-H200PR-\*\*  
FCC ID: ACJJT-H200PR

### 3.6 Test results with EUT operating in transmit mode on channel 3.

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15.109, 47 CFR Part 15.209 and 47 CFR Part 15.205 (restricted bands of operation) with the EUT operating in transmit mode on 2480 MHz, are depicted in table 8.

Frequency (MHz)	Measurement results dB( $\mu$ V)/m @ 3 meters Quasi-peak		Limits dB( $\mu$ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
30 – 88	< 10.0	< 10.0	40.0	-	-	PASS
88 – 216	< 10.0	< 10.0	43.5	-	-	PASS
216 – 256.87	< 10.0	< 10.0	46.0	-	-	PASS
256.87	< 10.0	30.9	46.0	-	-15.1	PASS
348.00	20.5	31.2	46.0	-25.5	-14.8	PASS
480.00	32.6	35.5	46.0	-13.4	-9.5	PASS
576.00	31.4	29.8	46.0	-14.6	-16.2	PASS
576.00 – 960	< 10.0	< 10.0	46.0	-	-	PASS
960 – 1000	< 10.0	< 10.0	54.0	-	-	PASS

Table 8 - Test results with the EUT operating in transmit mode on 2480 MHz.

Note: Field strength values of radiated emissions at frequencies not listed in table 8 are more than 20 dB below the applicable limit.

#### Test engineer

Signature : 

Name : H. J. Pieters

Date : September 4, 2003



Test specification(s): 47 CFR Part 15 (2003-07-22)  
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FCC ID: ACJJT-H200PR

## 4 List of utilized test equipment.

Inventory number	Description	Brand	Model
12471	Biconical antenna 20MHz-200MHz	EATON	94455-1
12473	Log-per antenna 200-1000MHz	EATON	96005
12476	Antenna mast	EMCO	TR3
12477	Antenna mast 1-4 mtr	Poelstra	--
12482	Loop antenna	EMCO	6507
12483	Guidehorn	EMCO	3115
12484	Guidehorn	EMCO	3115
12488	Guidehorn 18 - 26.5 GHz	EMCO	RA42-K-F-4B-C
12533	Signalgenerator	MARCONI	2032
12559	Digital storage oscilloscope	Le Croy	9310M
12561	DC Power Supply 20A/70V	DELTA	SM7020D
12567	Plotter	HP	7440A
12605	Calibrated dipole 28MHz-1GHz	Emco	3121c
12608	HF milliwattmeter	Hewlett Packard	HP435a
12609	Power sensor 10MHz-18GHz	Hewlett Packard	HP8481A
12636	Polyester chamber	Polyforce	--
12640	Temperature chamber	Heraeus	VEM03/500
13664	Spectrum analyzer	HP	HP8593E
13078	Preamplifier 0.1 GHz - 12 GHz	Miteq	AMF-3D-001120-35-14p
13452	Digital multi meter	HP	34401A
13526	Signalgenerator 20 GHz	Hewlett & Packard	83620A
13594	Preamplifier 10 GHz - 25 GHz	Miteq	AMF-6D-100250-10p
13886	Open Area testsite	Comtest	--
14051	Anechoic room	Comtest	--
14450	2.4 GHz bandrejectfilter	BSC	XN-1783
15633	Biconilog Testantenna	Chase	CBL 6111B
15667	Measuring receiver	R&S	ESCS 30
99045	DC Power Supply 3A/30V	DELTA	E030/3
99055	Non-conducting support	NMi	--
99061	Non-conducting support 150cm	NMi	--
99068	Detector N-F/BNC-F	Radiall	R451576000
99069	Cable 5m RG214	NMi	--
99071	Cable 10m RG214	NMi	--
99076	Bandpassfilter 4 - 10 GHz	Reactel	7AS-7G-6G-511
99077	Regulating trafo	RFT	LTS006
99112	Tripod	Chase	--
99136	Bandpassfilter 10 - 26.5 GHz	Reactel	9HS-10G/26.5G-S11