: 30GE0004-HO-01-C-R1 Test report No.

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# RADIO TEST REPORT

**Test Report No.: 30GE0004-HO-01-C-R1** 

**Applicant Panasonic Corporation of North America** 

**Type of Equipment** 2.4 GHz USB Wireless Adaptor

UE-608049 Model No.

FCC ID ACJ5Z6UE-608049

**Test regulation** FCC Part 15 Subpart C 2010

**Section 15.207, Section 15.247** 

**Test Result Complied** 

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- The results in this report apply only to the sample tested.
- This sample tested is in compliance with the above regulation.
- The test results in this report are traceable to the national or international standards.
- This test report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This report is a revised version of 30GE0004-HO-01-C. 30GE0004-HO-01-C is replaced with this report.

February 19 and 21, 2010 Date of test:

**Tested by:** 

Satofumi Matsuyama Representative test engineer of **EMC Service** 

Approved by:

Takahiro Hatakeda Leader of EMC Services

NVLAP LAB CODE: 200572-0

This laboratory is accredited by the NVLAP LAB CODE 200572-0, U.S.A. The tests reported herein have been performed in accordance with its terms of accreditation. \*As for the range of Accreditation in NVLAP, you may refer to the WEB address, http://uljapan.co.jp/emc/nvlap.html

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# **SECTION 1: Customer information**

Company Name : Panasonic System Networks Co., Ltd.

Address : 1-62, 4-chome Minoshima, Hakata-ku, Fukuoka 812-8531 Japan

Telephone Number : +81-92-477-1405 Facsimile Number : +81-92-477-1487 Contact Person : Hidemori Shimojo

# **SECTION 2: Equipment under test (E.U.T.)**

#### 2.1 Identification of E.U.T.

Type of Equipment : 2.4 GHz USB Wireless Adaptor

Model No. : UE-608049

Serial No. : Refer to Section 4, Clause 4.2

Rating : DC5.0V

Receipt Date of Sample : February 4, 2010
Country of Mass-production : Japan, Malaysia
Condition of EUT : Engineering prototype

(Not for Sale: This sample is equivalent to mass-produced items.)

Modification of EUT : No Modification by the test lab

## 2.2 Product Description

The EUT UE-608049 is a 2.4 GHz USB Wireless Adaptor. The user writes on the board and the pen status data is then transmitted from the pen to the PC via a 2.4 GHz Wireless frequency.

### **General Specification**

Clock frequency in the system : CPU: 16MHz

## **Radio Specification**

Radio Type : Transceiver
Frequency of Operation : 2402-2481MHz

Modulation : GFSK
Power Supply (radio part input) : DC 1.8V

Antenna type : 1/4λ MonoPole PCB Antenna

Antenna Gain : 0dBi (Max)

Operating Temperature : +10 deg. C. to +35 deg. C.

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<sup>\*</sup>Panasonic System Networks Co., Ltd. is on behalf of the applicant: Panasonic Corporation of North America.

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## **SECTION 3:** Test specification, procedures & results

## 3.1 Test Specification

Test Specification : FCC Part 15 Subpart C: 2010, final revised on January 22, 2010 and effective March 1, 2010

Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators

Section 15.207 Conducted limits

Section 15.247 Operation within the bands 902-928MHz,

2400-2483.5MHz, and 5725-5850MHz

#### 3.2 Procedures and results

Test Procedure	Specification	Worst margin	Results	Remarks
FCC: ANSI C63.4:2003 7. AC powerline Conducted Emission measurements IC: RSS-Gen 7.2.2	IC: RSS-Gen 7.2.2	[Tx]   QP   17.4dB, 0.20100MHz, L   AV   12.6dB, 0.40264MHz, L   [Rx]   QP   19.1dB, 0.20140MHz, L   AV   AV   12.7dB, 0.22544MHz, L   L   L   L   L   L   L   L   L   L	Complied	-
FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.6.2	FCC: Section 15.247(a)(2) IC: RSS-210 A8.2(a)	13.7db, 0.35344;vi112, L	Complied	Conducted
FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.8	FCC: Section 15.247(b)(3) IC: RSS-210 A8.4(4)	See data.	Complied	Conducted
FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: -	FCC: Section 15.247 (e) IC: RSS-210 A8.2(b)		Complied	Conducted
FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.9 RSS-Gen 4.10	IC: RSS-210 A8.5 RSS-Gen 7.2.1 and 7.2.3	[Tx] 4.3dB 65.065MHz, QP, Vert. [Rx] 5.8dB 65.446MHz, QP, Vert.	Complied	Conducted/ Radiated
	FCC: ANSI C63.4:2003 7. AC powerline Conducted Emission measurements IC: RSS-Gen 7.2.2  FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.6.2  FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.8  FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: -  FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: -  FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.9	FCC: ANSI C63.4:2003 7. AC powerline Conducted Emission measurements IC: RSS-Gen 7.2.2  FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.6.2  FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.8  FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.8  FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: -  IC: RSS-210 A8.4(4)  FCC: Section 15.247 (e)  FCC: Section 15.247 (f)  FCC: Section 15.247 (g)  FCC: RSS-210 A8.2(b)  FCC: RSS-210 A8.2(b)  FCC: RSS-210 A8.2(c)  FCC: RSS-210 A8.2(d)  FCC: RSS-210 A8.2(d)	FCC: ANSI C63.4:2003 7. AC powerline Conducted Emission measurements IC: RSS-Gen 7.2.2 IC: RSS-Gen 4.6.2 IC: RSS-210 A8.2(a) FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.8 IC: RSS-210 A8.4(4) FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.8 IC: RSS-210 A8.2(b) FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.9 RSS-Gen 4.9 RSS-Gen 7.2.1 and IC: RSS-210 A8.5 RSS-Gen 7.2.1 and IC: RSS-Gen 7.2.1 and	FCC: ANSI C63.4:2003 7. AC powerline Conducted Emission measurements IC: RSS-Gen 7.2.2 IC: RSS-Gen 4.0  FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.6.2 IC: RSS-210 A8.2(a) FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.8 IC: RSS-210 A8.4(4) FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.8 IC: RSS-210 A8.2(b) FCC: "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247" IC: RSS-Gen 4.9 IC: RSS-210 A8.2(b) FCC: Section 15.247(d) IC: RSS-Gen 4.9 RSS-Gen 4.9 RSS-Gen 4.9 RSS-Gen 4.10 IC: RSS-210 A8.5 RSS-Gen 7.2.1 and IC: RSS-Gen 7.2.1 and IC: RSS-Gen 4.9 RSS-Gen 4.10 IC: RSS-210 A8.5 RSS-Gen 7.2.1 and IC: RSS-Gen 7.2.1 and IC: RSS-Gen 4.9 IC: RSS-Gen 7.2.1 and IC: RSS-Gen

<sup>\*</sup> In case any questions arise about test procedure, ANSI C63.4: 2003 is also referred.

#### FCC 15.31 (e)

This EUT provides stable voltage(DC1.8V) constantly to RF Part regardless of input voltage. Therefore, this EUT complies with the requirement.

## FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

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<sup>\*</sup>The revision on January 22, 2010 does not affect the test specification applied to the EUT.

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## 3.3 Addition to standard

Item	Test Procedure	Specification	Worst margin	Results	Remarks
99% Occupied	IC: RSS-Gen 4.6.1	IC: RSS-Gen 4.6.1	N/A	N/A	Conducted
Bandwidth					

Other than above, no addition, exclusion nor deviation has been made from the standard.

## 3.4 Uncertainty

#### **EMI**

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.

Test room	Conducted emission
(semi-	( <u>+</u> dB)
anechoic	150kHz-30MHz
chamber)	
No.1	2.6dB
No.2	2.9dB
No.3	3.3dB
No.4	2.8dB

Test room (semi- anechoic		liated emissi 10m*)( <u>+</u> dB)	~	Radiated emission					
chamber)					(3m*)( <u>+</u> dB)				(1m*)( <u>+</u> dB)
	9kHz	30MHz	300MHz	9kHz				26.5GHz	
	-30MHz	-300MHz	-1GHz	-30MHz	-30MHz   -300MHz   -1GHz   -18GHz   -26.5GHz			-40GHz	
No.1	2.7dB	4.8dB	5.0dB	2.9dB	4.8dB	5.0dB	3.9dB	4.5dB	4.4dB
No.2	-	-	-	3.5dB	4.8dB	5.1dB	4.0dB	4.3dB	4.2dB
No.3	-	-	-	3.8dB	4.6dB	4.7dB	4.0dB	4.5dB	4.4dB
No.4	-	-	-	3.5dB	4.4dB	4.9dB	4.0dB	4.6dB	4.5dB

<sup>\*10</sup>m/3m/1m = Measurement distance

Power meter ( <u>+</u> dB)					
Below 1GHz Above 1GHz					
1.0dB	1.0dB				

Antenna terminal conducted emission			Antenna terminal	conducted emission	Channel power
and	Power density (	<u>+</u> dB)	( <u>+</u> dB)		( <u>+</u> dB)
Below 1GHz	1GHz-3GHz	3GHz-18GHz	18GHz-26.5GHz	26.5GHz-40GHz	
1.0dB	1.1dB	2.7dB	3.2dB	3.3dB	1.5dB

#### Conducted Emission test

The data listed in this test report has enough margin, more than the site margin.

#### Radiated emission test(3m)

[Tx]The data listed in this report meets the limits unless the uncertainty is taken into consideration.

[Rx]The data listed in this test report has enough margin, more than the site margin.

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## 3.5 Test Location

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Telephone: +81 596 24 8116 Facsimile: +81 596 24 8124

	FCC Registration	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) /	Other rooms
	Number			horizontal conducting plane	
No.1 semi-anechoic chamber	313583	2973C-1	19.2 x 11.2 x 7.7m	7.0 x 6.0m	No.1 Power source room
No.2 semi-anechoic chamber	655103	2973C-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 semi-anechoic chamber	148738	2973C-3	12.0 x 8.5 x 5.9m	6.8 x 5.75m	No.3 Preparation room
No.3 shielded room	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.4 semi-anechoic chamber	134570	2973C-4	12.0 x 8.5 x 5.9m	6.8 x 5.75m	No.4 Preparation room
No.4 shielded room	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.5 semi-anechoic chamber	-	-	6.0 x 6.0 x 3.9m	6.0 x 6.0m	-
No.6 shielded room	-	-	4.0 x 4.5 x 2.7m	4.75 x 5.4 m	-
No.6 measurement room	-	-	4.75 x 5.4 x 3.0m	4.75 x 4.15 m	-
No.7 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.8 measurement room	-	-	3.1 x 5.0 x 2.7m	N/A	-
No.9 measurement room	-	-	8.0 x 4.5 x 2.8m	2.0 x 2.0m	-
No.10 measurement room	-	-	2.6 x 2.8 x 2.5m	2.4 x 2.4m	-
No.11 measurement room	-	-	3.1 x 3.4 x 3.0m	2.4 x 3.4m	-

<sup>\*</sup> Size of vertical conducting plane (for Conducted Emission test): 2.0 x 2.0m for No.1, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

## 3.6 Test set up, Data of EMI, and Test instruments

Refer to APPENDIX.

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# **SECTION 4: Operation of E.U.T. during testing**

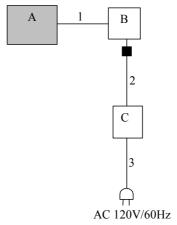
## 4.1 **Operating Mode(s)**

Mode	Remarks*
Transmitting mode (Tx)	1Mbps, PN9
Receiving mode (Rx)	

\*The details of Operating mode(s)

Test Item	Operating Mode	<b>Tested frequency</b>
Conducted Emission	Tx	2402MHz
Spurious Emission		2441MHz
		2481MHz
	Rx	2441MHz
6dB Bandwidth	Tx	2402MHz
Maximum Peak Output Power		2441MHz
Power Density		2481MHz
99% Occupied Bandwidth		

## 4.2 Configuration and peripherals



: Standard Ferrite Core

**Description of EUT** 

No.	Item	Model number	Serial number	Manufacturer	Remarks
A	2.4 GHz USB Wireless	UE-608049	WS5-11	Panasonic	EUT
2 1	Adaptor				
В	Note PC	2373T49	L316W54	IBM	-
C	AC Adapter	92P1020	11S92P1020Z1Z9RM63A76X	IBM	-

List of cables used

No.	Name	Length (m)	Shield		Shield		Remarks
			Cable	Connector			
1	USB Cable	3.0	Shielded	Shielded	-		
2	DC Cable	1.8	Unshielded	Unshielded			
3	AC Cable	1.0	Unshielded	Unshielded			

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<sup>\*</sup> Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

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## **SECTION 5: Conducted Emission**

#### **Test Procedure and conditions**

EUT was placed on a urethane platform of nominal size, 1.0m by 1.5m, raised 0.8m above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center.

## For the tests on EUT with other peripherals (as a whole system)

I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane. All unused 50ohm connectors of the LISN(AMN) were resistivity terminated in 50ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber or a Measurement Room.

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

Detector : QP and AV
Measurement range : 0.15-30MHz
Test data : APPENDIX
Test result : Pass

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## **SECTION 6: Radiated Spurious Emission**

#### **Test Procedure**

It was measured based on "2. Radiated emission test" of "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247 ".

EUT was placed on a urethane platform of nominal size, 0.5m by 1.0m, raised 0.8m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

The height of the measuring antenna varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field strength.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer.

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

#### Test Antennas are used as below:

-							
	Frequency	30MHz to 300MHz	300MHz to 1GHz	Above 1GHz			
	Antenna Type	Biconical	Logperiodic	Horn			

In any 100kHz bandwidth outside the restricted band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

20dBc was applied to the frequency over the limit of FCC 15.209 / Table 2 of RSS-210 2.7 (IC) and outside the restricted band of FCC15.205 / Table 1 of RSS-210 2.7 (IC).

estricted band of rec13.203 / rable r of R55-210 2.7 (re).									
Below 1GHz	Above 1GHz	Above 1GHz							
strument used Test Receiver / Spectrum Analyzer		Spectrum Analyzer							
QP	PK	AV							
BW 120kHz(T/R)	RBW: 1MHz VBW: 1MHz	RBW: 1MHz VBW: 10Hz or RBW: 1MHz VBW: 11Hz *1)							
20dBc: RBW: 100kHz VBW: 300kHz (S/A)	20dBc : RBW:100k	20dBc: RBW:100kHz/VBW:300kHz							
Test Distance 3m		3m (below 10GHz), 1m*2) (above 10GHz),							
	Below 1GHz Test Receiver / Spectrum Analyzer QP BW 120kHz(T/R)  20dBc: RBW: 100kHz VBW: 300kHz (S/A)	Below 1GHz Test Receiver / Spectrum Analyzer  QP BW 120kHz(T/R)  20dBc: RBW: 100kHz VBW: 300kHz (S/A)  3m  Above 1GHz Spectrum Analyzer Spectrum Analyzer PK RBW: 1MHz VBW: 1MHz VBW: 1MHz  20dBc: RBW:100k 3m (below 10GHz),							

<sup>\*1)</sup> Used for the band edge of the carrier and the harmonics that can be measured. The VBW is based on the inverse of the duty cycle (see P.26).

- The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

: 30M-26.5GHz Measurement range Test data : APPENDIX Test result : Pass

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<sup>\*2)</sup> Distance Factor:  $20 \times \log (3.0 \text{m}/1.0 \text{m}) = 9.5 \text{dB}$ 

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# **SECTION 7: Antenna Terminal Conducted Tests**

#### **Test Procedure**

The tests were made with below setting connected to the antenna port.

Test	Span	RBW	VBW	Sweep time	Detector	Trace	Instrument used
6dB Bandwidth	10MHz	100kHz	300kHz	Auto	Peak	Max Hold	Spectrum Analyzer
99% Occupied Bandwidth	Enough width to display 20dB Bandwidth	1 to 3% of Span	Three times of RBW	Auto	Peak	Max Hold	Spectrum Analyzer
Maximum Peak Output Power	-	-	-	Auto	Peak	-	Power Meter (Sensor: 50MHz BW)
Peak Power Density	1.5MHz	3kHz	100kHz	500sec	Peak	Max Hold	Spectrum Analyzer *1)
Conducted Spurious Emission	Less or equal to 5GHz (Range: 30MHz-25GHz)	100kHz	300kHz	Auto	Peak	Max Hold	Spectrum Analyzer
*1) PSD Option 1 of '	'Guidance on Measurement	of Digital T	ransmission S	Systems Operating under	Section15.247	7 ".	

The test results and limit are rounded off to two decimals place, so some differences might be observed.

Test data : APPENDIX

Test result : Pass

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