Issue Date : September 1, 2006

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EMI TEST REPORT

JQA File No. : 400-60185

Model No. : BT/SD Board

Type of Equipment : BT/SD Board

Regulations Applied : CFR 47 FCC Rules and Regulations Part 15

: Industry Canada RSS-210(Issue 6) and RSS-Gen(Issue 1)

FCC ID : H5P-FC200BTSD IC : 6050AFC200BT

Applicant : TOPCON CORPORATION

Address : 75-1, Hasunuma-cho, Itabashi-ku, Tokyo, 174-8580 Japan

Manufacturer : Nagano Japan Radio Co., Ltd.

Address : 1163, Inesato-Cho, Nagano-Shi, Nagano, 381-2288 Japan

Received date of EUT : June 12, 2006

Test Result : Passed

Test results in this report are obtained in use of equipment that is traceable to National Institute of Advanced Industrial Science and Technology (AIST) of Japan and National Institute of Information and Communications Technology (NICT) of Japan.

The test results only respond to the tested sample. This report should not be reproduced except in full, without the written approval of JQA EMC Engineering Dept. Testing Div.



IC RSS-210 and RSS-Gen

JQA File No. :400-60185 FCC ID:H5P-FC200BTSD IC:6050AFC200BT

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1. DOCUMENTATION

1.1 TEST REGULATION

FCC Rules and Regulations Part 15 Subpart B and C Radiated Spurious Emissions, Industry Canada IC RSS-210 (Issue 6) and RSS-Gen (Issue 1)

Test procedure:

The tests were performed with reference to the FCC Public Notice DA 00-705, released March 30, 2000. The test set-up was made in accordance to the general provisions of ANSIC63.4-2003.

1.2 GENERAL INFORMATION

1.2.1 Test facility:

JQA Safety & EMC Center EMC Engineering Department is recognized under ISO/IEC 17025 by NVLAP and VLAC.

- 1) Test Facility located at EMC Engineering Dept. Testing Div. :
 - No.2 and 3 Anechoic Chambers (3 meters Site).
 - Shielded Enclosure.

Open Area Test Site Industry Canada No.: 2079-7

2) EMC Engineering Dept. Testing Div. is recognized under the National Voluntary Laboratory accreditation Program for satisfactory compliance established in title 15, Part 285 Code of Federal Regulations.

NVLAP Lab Code: 200189-0 (Effective through: June 30, 2007)



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1.2.2 Description of the Equipment Under Test (EUT) :

1) Type of Equipment

2) Product Type

3) Category

4) EUT Authorization

5) FCC ID

IC

6) Trade Name

7) Model No.

8) Operating Frequency Range

9) Highest Frequency Used in the EUT

10) RF Output Power

11) Serial No.

12) Date of Manufacture

13) Power Rating

14) EUT Grounding

15) Antenna Type

16) Antenna Gain

: BT/SD Board

: Pre-production

: Spread Spectrum Transmitter(FHSS)

: Certification

: H5P-FC200BTSD

: 6050AFC200BT

: TOPCON

: BT/SD Board

: 2402 MHz - 2480 MHz

: 2480 MHz

: -3.04dBm (measured value)

: None

: None

: 3.3VDC

: None

: Integral Internal antenna

(not accessible to the user)

: +2.04 dBi

1.2.3 Definitions for symbols used in this test report :

- x indicates that the listed condition, standard or equipment is applicable for this report.
- indicates that the listed condition, standard or equipment is not applicable for this report.



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1.3 TEST CONDITION

1.3.1 The measurement of Channel Separation

 \underline{x} - was performed.

- was not applicable.

Used test instruments:

Type	Number of test instruments
	(Refer to Appendix)
Test Receiver	13
Spectrum Analyzer	N/A
Cable	48
Attenuator	80
Antenna	N/A
DC Power Supply	77

1.3.2 The measurement of Minimum Hopping Channel

 \underline{x} - was performed.

___ - was not applicable.

Used test instruments:

Type	Number of test instruments
	(Refer to Appendix)
Test Receiver	13
Spectrum Analyzer	N/A
Cable	48
Attenuator	80
Antenna	N/A
DC Power Supply	77

1.3.3 The measurement of Occupied Bandwidth

 \underline{x} - was performed.

___ - was not applicable.

Type	Number of test instruments
	(Refer to Appendix)
Test Receiver	13
Spectrum Analyzer	N/A
Cable	48
Attenuator	80
Antenna	N/A
DC Power Supply	77



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1.3.4 The measurement of Dwell Time

x - was performed.

___ - was not applicable.

Used test instruments:

Туре	Number of test instruments
	(Refer to Appendix)
Test Receiver	13
Spectrum Analyzer	N/A
Cable	48
Attenuator	80
Antenna	N/A
DC Power Supply	77

1.3.5 The measurement of Peak Output Power and Density (Conduction)

 \underline{x} - was performed.

___ - was not applicable.

Туре	Number of test instruments
	(Refer to Appendix)
Test Receiver	13
Spectrum Analyzer	N/A
Cable	48
Attenuator	80
Antenna	N/A
Digitizing Oscilloscope	163
RF Detector	85
Signal Generator	60
DC Power Supply	77



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1.3.6 The measurement of Peak Output Power and Density (Radiation)

- was performed in the following test site.

 \underline{x} - was not applicable.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div. 21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

____ - No. A site (3 meters)

- No. B site (3 meters)

Validation of Site Attenuation :

1) Last Confirmed Date : N/A 2) Interval : N/A

Type	Number of test instruments
	(Refer to Appendix)
Test Receiver	N/A
Spectrum Analyzer	N/A
Cable	N/A
Attenuator	N/A
Antenna	N/A
Power Meter	N/A
Power Sensor	N/A
Signal Generator	N/A
DC Power Supply	N/A



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1.3.7 The measurement of Spurious Emissions (Conduction)

 \underline{x} - was performed.

- was not performed.

Used test instruments:

Туре	Number of test instruments
	(Refer to Appendix)
Test Receiver	13
Spectrum Analyzer	N/A
Cable	48
Attenuator	80
DC Power Supply	77

1.3.8 The measurement of Spurious Emissions (Radiation)(9 kHz - 30 MHz)

x - was performed in the following test site.

___ - was not applicable.

Test location:

Safety & EMC Center EMC Engineering Dept. Testing Div. 21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

x - Anechoic Chamber No. A (3 meters)

___ - Anechoic Chamber No. B (3 meters)

Validation of Site Attenuation:

1) Last Confirmed Date : N/A
2) Interval : N/A

Type	Number of test instruments
	(Refer to Appendix)
Test Receiver	13
Cable	43
Antenna	21
DC Power Supply	77



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1.3.9 The measurement of Spurious Emissions (Radiation) (30 MHz - 1000 MHz)

x - was performed in the following test site.

- was not applicable.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div. 21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

 \underline{x} - Anechoic Chamber No. A (3 meters)

- Anechoic Chamber No. B (3 meters)

Validation of Site Attenuation :

1) Last Confirmed Date :March, 2006

2) Interval :1 year

Used test instruments:

Type Number of test instruments

Test Receiver

Cable

Antenna

RF Amplifier

DC Power Supply

11 38

26,

N/A



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1.3.10 The measurement of Spurious Emissions (Radiation) (Above 1000 MHz)

x - was performed in the following test site.

___ - was not applicable.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div. 21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

 \underline{x} - No. A site (3 meters) - No. B site (3 meters)

Validation of Site Attenuation :

1) Last Confirmed Date : March, 2006

2) Interval :1 year

Type	Number of test instruments
	(Refer to Appendix)
Test Receiver	13
Spectrum Analyzer	N/A
Cable	48, 50
Antenna	30, 32
RF Amplifier	57
Band Reject Filter	78
High Pass Filter	79
DC Power Supply	77



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1.3.11 The measurement of AC Power Line Conducted Emissions

x - was performed in the following test site.

___ - was not applicable.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div. 21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

x - Shielded Enclosure

- Anechoic Chamber No. A (portable Type)

Used test instruments:

Type	Number of test instruments
	(Refer to Appendix)
Test Receiver	10
Spectrum Analyzer	19
Cable	40

AMN(for Peripheral) Termination

AMN(for EUT)



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1.4 EUT MODIFICATION / Deviation from Standard

1.4.1 EUT MODIFICATION

x - No modifications were conducted by JQA to achieve compliance to Class B levels.

___- To achieve compliance to Class B levels, the following changes were made by JQA during the compliance test.

The modifications will be implemented in all production models of this equipment. Applicant : Date : Typed Name : Position : Signatory:

1.4.2 Deviation from Standard:

x -	No	deviations	from	the	standard	described	in	clause	1.1.	
-----	----	------------	------	-----	----------	-----------	----	--------	------	--

___ - The following deviations were employed from the standard described in clause 1.1:



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1.5 TEST RESULTS

Channel Separation [§15.247(a)(1)], [A8.1(2)]	<u>x</u> - Applicable	NOT Applicable
The requirements are Remarks:	x - PASSED	NOT PASSED
Remains .		
Minimum Hopping Channel [§15.247(a)(1)(iii)], [A8.1(4)]	$\underline{\hspace{1cm}}$ - Applicable	NOT Applicable
The requirements are	X - PASSED	NOT PASSED
Remarks:		
Occupied Bandwidth [§15.247(a)(2)], [A8.2(1)]	<u>x</u> - Applicable	NOT performed
The requirements are	X - PASSED	NOT PASSED
Remarks:	4	
Dwell Time [§15.247(a)(1)(iii)/(g)], [A8.1(4)]	Applicable	NOT Applicable
The requirements are	x - PASSED	NOT PASSED
Remarks:		
Peak Output Power (Conduction) [§15.247(b)(3)], [A8.4(4)]	x - Applicable	NOT Applicable
The requirements are	× - PASSED	NOT PASSED
Remarks:		
Peak Output Power (Radiation) [§15.247(b)(1)], [A8.4(2)]	Applicable	<u>x</u> - NOT Applicable
The requirements are	PASSED	NOT PASSED
Remarks:		
Peak Power Density (Conduction) [§15.247(d)], [A8.2(2)]	<u>x</u> - Applicable	NOT Applicable
The requirements are	x - PASSED	NOT PASSED
Remarks:		
Peak Power Density (Radiation) [§15.247(d)], [A8.2(2)]	Applicable	<u>x</u> - NOT Applicable
The requirements are	PASSED	- NOT PASSED
Remarks:		



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Spurious Emissions (Conduction) [§15.247(c)], [A8.5]	<u>x</u> - Applicable	NOT performed
The requirements are	x - PASSED	- NOT PASSED
Remarks:		
Spurious Emissions (Radiation)	x - Applicable	- NOT Applicable
[§15.247(c), §15.35(b), §15.209(a)],		
The requirements are	x - PASSED	- NOT PASSED
Remarks:		
AC Power Line Conducted Emissions	x - Applicable	- NOT Applicable
[§15.207(a)], [7.2.2]		
The requirements are	x - PASSED	- NOT PASSED
Remarks:		
RF Exposure Compliance	- Applicable	x - NOT Applicable
[§15.247(i)], [5.5]		
The requirements are	- PASSED	- NOT PASSED
Remarks:		
Spurious Emissions for Receiver	x - Applicable	- NOT Applicable
(Radiation)[§15.109(a)], [6(a)]		
The requirements are	x - PASSED	NOT PASSED
Remarks:	-	
AC Power Line Conducted Emissions	$_{\underline{ imes}}$ - Applicable	NOT Applicable
AC Power Line Conducted Emissions for Receiver [§15.107(a)], [7.2.2]	x - Applicable	NOT Applicable
	<pre>_x - Applicable</pre> <pre>_x - PASSED</pre>	NOT Applicable NOT PASSED



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1.6 SUMMARY

General Remarks:

The EUT was tested according to the requirements of FCC Rules and Regulations Part 15 Subpart B, Subpart C, and IC RSS-210 issue 6 and RSS-Gen issue 1 under the test configuration, as shown in clause 1.7 to 1.10.

The conclusion for the test items which are required by the applied regulation is indicated under the test result.

Test Result:

The "as received" sample;

x - fulfill the test requirements of the regulation mentioned on clause 1.1.

- fulfill the test requirements of the regulation mentioned on clause 1.1, but with certain qualifications.

- doesn't fulfill the test regulation mentioned on clause 1.1.

Begin of testing: June 12,

End of testing : August 31, 2006

1.7.1 JAPAN QUALITY ASSURANCE ORGANIZATION -

Approved by: Issued by:

Takaharu Hada

Manager

Testing Division

JQA EMC Engineering Dept.

Shigeru Osawa

Assistant Manager

Testing Division

JQA EMC Engineering Dept.



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1.8 TEST CONFIGURATION / OPERATION OF EUT

1.8.1 Test Configuration

The equipment under test (EUT) consists of :

Symbol	Item	Manufacturer	Model No.	FCC ID/IC	Serial No.
А	BT/SD Board	Nagano Japan Radio Co., Ltd.	BT/SD Board	H5P-FC200BTSD 6050AFC200BT	None

The measurement was carried out with the following support equipment connected:

Symbol	Item	Manufacturer	Model No.	FCC ID/IC	Serial No.
В	Especially Circuit	TOPCON CORPORATION	_	None	None
С	Field Controller	TOPCON CORPORATION	FC-200	None	None
D	AC Adapter	TOPCON CORPORATION	AC-11	None	None

Type of Cable :

Symbol	Description	Identification (Manufacturer etc.)	Connector Shielded YES / NO	Cable Shielded YES / NO	Ferrite Core	Length (m)
1	DC Cable	-	NO	NO	NO	2.00
2 (*1)	DC Cable	-	NO	NO	YES	1.25
3 (*1)	AC Cable	-	NO	NO	NO	2.00

Note (*1): The cable is for the AC Adapter.

1.7.2 Operating condition

Power supply Voltage: 3.3VDC operate with the DC Power Supply

The tests have been carried out the following mode.

1) TX mode (0ch: 2402 MHz) 2) TX mode (39ch: 2441 MHz) 3) TX mode (78ch: 2480 MHz)

4) RX mode

The Packet type under the tests is DH1 by the applicant request.

Used application to controlled: Blue Test(The detail is as follows.)

Transport type : BCSP Serial port : com1 Baud rate : 115200

Frequency: 2402 MHz, 2441 MHz and 2480 MHz

Power set of TX mode: 50

1.7.3 Generating and Operating frequency of EUT

2402 MHz to 2480 MHz

:BT/SD Board Standard

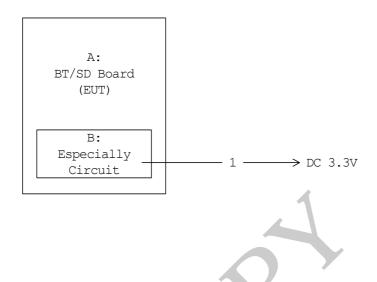
:CFR 47 FCC Rules Part 15 IC RSS-210 and RSS-Gen

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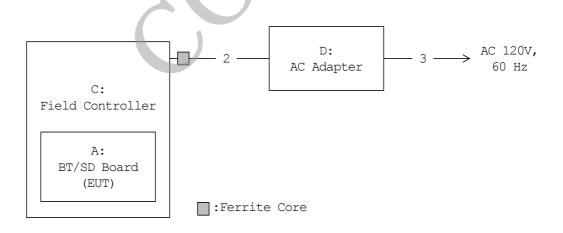
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1.8 EUT ARRANGEMENT (DRAWINGS)

(a) For the all test(except the AC Power Line Conducted Emissions)



(b) For the AC Power Line Conducted Emissions



JGA Mode

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1.9 PRELIMINARY TEST AND TEST-SETUP (DRAWINGS)

1.9.1 Channel Separation

The EUT have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) \geq 1% of the span

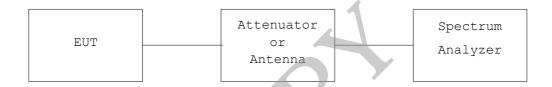
Video (or Average) Bandwidth (VBW) ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.



1.9.2 Minimum Hopping Channel

The EUT have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

 $RBW \ge 1\%$ of the span

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies.

Measurement setup is same as sub-clause 1.9.1.



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1.9.3 Occupied Bandwidth

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 6 dB or 20 dB bandwidth, centered on a channel RBW \geq 1% of the 6 dB or 20 dB bandwidth

VBW > RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6 dB or 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 6 dB or 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measurement setup is same as sub-clause 1.9.1.

1.9.4 Dwell Time

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

RBW ≤ Channel Separation

VBW ≥ RBW

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

If possible, use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measurement setup is same as sub-clause 1.9.1.



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1.9.5 Peak Output Power (Conduction)

In case of conducted measurements, the transmitter shall be connected to the measuring equipment via a suitable attenuator. The measurement shall be performed using normal operation of the equipment with the test modulation applied.

The test procedure shall be as follows;

(step 1):

- using a suitable means, the output of the transmitter shall be coupled to a diode detector;
- the output of the diode detector shall be connected to the vertical channel of an oscilloscope;
- the combination of the diode detector and the oscilloscope shall be capable of faithfully reproducing the envelope peaks and the duty cycle of the transmitter output signal;
- The observed value shall be recorded as "A" (in dBm);

(step 2):

- the transmitter shall be replaced by a signal generator. The output frequency of the signal shall be made equal to the centre of the frequency range occupied by the transmitter;
- the signal generator shall be unmodulated. The output power of the signal generator shall be raised to a level such that the deviation of the Y-trace of the oscilloscope reaches level A, as indicated in step 1;
- The signal generator output level shall be recorded;

The measurement shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range.



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1.9.6 Peak Power Density (Conduction)

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a channel

RBW = Specified Value

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.

Measurement setup is same as sub-clause 1.9.1.

1.9.7 Peak Output Power and Peak Power Density (Radiation)

The radiated power output and the field strength of the transmitter radiation were measured at the distance at 3 meters away from the transmitter under test which was placed on a turntable 0.8 meter in height. The receiving antenna was oriented for vertical polarization and raised or lowered through 1 to 4 meters until the maximum signal level was detected on the measuring instrument. The transmitter under test was rotated through 360° until the maximum signal was received. The measurement was repeated with the receiving antenna in the horizontal polarization.

The transmitter was removed and replaced with the antenna. The center of the antenna was placed approximately at the same location as the center of the transmitter. The antenna was fed with a signal generator, and the output level of the signal generator was adjusted to obtain the previously recorded maximum reading at the particular frequency and recorded. This procedure was repeated with the receiving antenna and the antenna in the orthogonal polarization.

The input power into the antenna was measured using the power meter. The level of the emissions in dBm(EIRP) were calculated from the following formula:

Transmitter Power[dBm] (EIRP) = (Meter Reading of Power Meter) + (Antenna Gain[dBi])

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a channel

RBW: Greater then the 20 dB bandwidth of the emission being measured or Specified Value

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.



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1.9.8 Spurious Emission (Conduction)

Band-edge Compliance of RF Conducted Emissions

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation

 $RBW \ge 1\%$ of the span

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission.

Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit.

Spurious RF Conducted Emissions

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

Measurement setup is same as sub-clause 1.9.1.

Model No. :BT/SD Board
Standard :CFR 47 FCC Rule

:CFR 47 FCC Rules Part 15 IC RSS-210 and RSS-Gen

FCC ID:H5P-FC200BTSD IC:6050AFC200BT

Issue Date :September 1, 2006

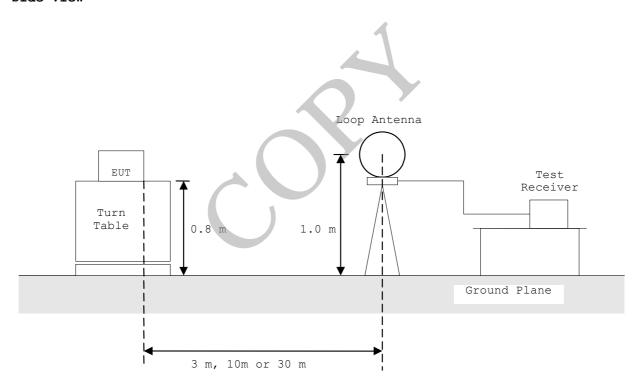
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1.9.9 Radiated Emission (9 kHz - 30 MHz):

According to description of ANSI C63.4-2003 sec.13.1.4, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

- Side View -



Model No. :BT/SD Board
Standard :CFR 47 FCC Rules P

:CFR 47 FCC Rules Part 15 IC RSS-210 and RSS-Gen

FCC ID:H5P-FC200BTSD IC:6050AFC200BT

Issue Date :September 1, 2006

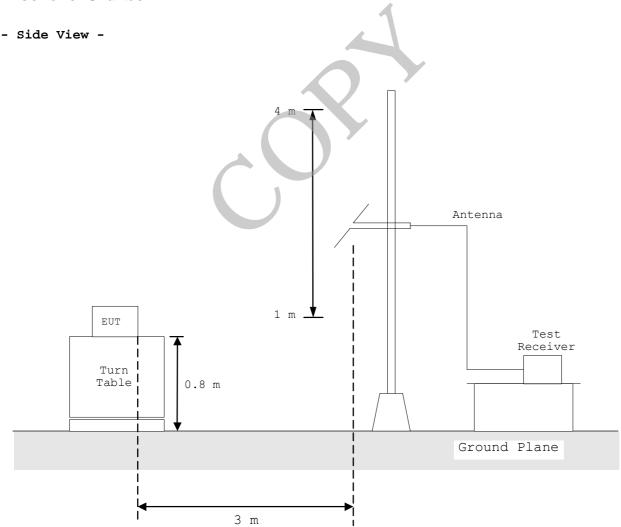
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1.9.10 Radiated Emission (30 MHz - 1000 MHz):

According to description of ANSI C63.4-2003 sec.13.1.4, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

The EUT configuration (in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Anechoic Chamber



JQA File No. :400-60185
Model No. :BT/SD Board

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FCC ID:H5P-FC200BTSD IC:6050AFC200BT

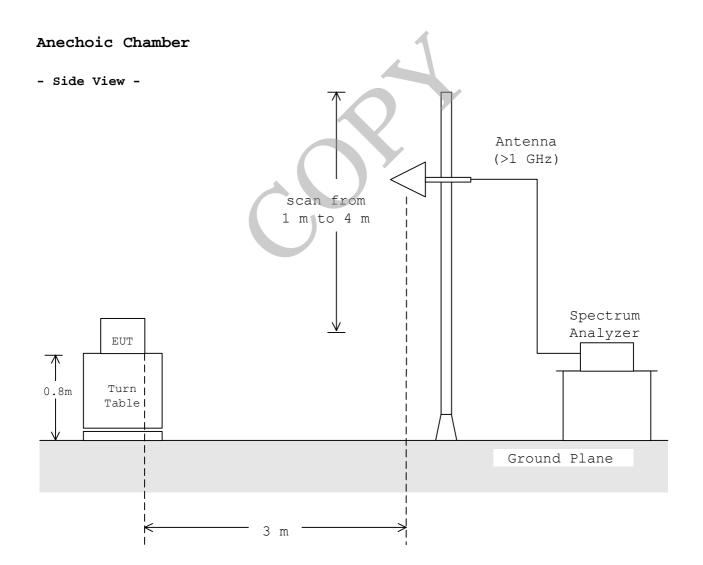
Issue Date :September 1, 2006

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1.9.11 Radiated Emission (Above 1 GHz):

According to description of ANSI C63.4-2003 sec.13.1.4, the preliminary radiated emissions measurements were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

The EUT configuration (in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.



Model No. :BT/SD Board

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1.9.12 AC Power Line Conducted Emission (150 kHz - 30 MHz) :

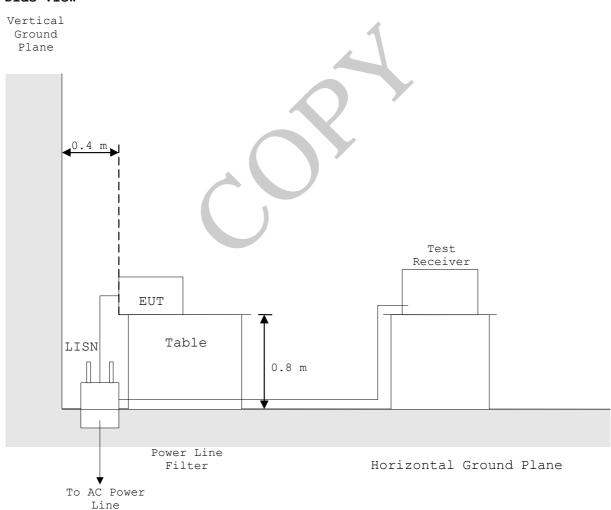
According to description of ANSI C63.4-2003 sec.13.1.3, the AC power line preliminary conducted emissions measurements were carried out.

The preliminary conducted measurements were performed using the spectrum analyzer to observe the emission characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements.

Shielded Enclosure

- Side View -



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Standard :CFR 47 FCC Rules Part 15 Page 28 of 65 IC RSS-210 and RSS-Gen

1.10 TEST ARRANGEMENT (PHOTOGRAPHS)

PHOTOGRAPHS OF THE CONDUCTED TEST



Model No. :BT/SD Board
Standard :CFR 47 FCC Rules Part 15 IC RSS-210 and RSS-Gen

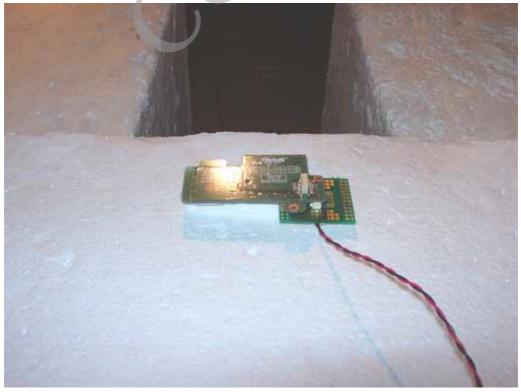
JQA File No. :400-60185 FCC ID:H5P-FC200BTSD IC:6050AFC200BT Issue Date :September 1, 2006

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PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT



Front view (X axis) -



- Rear view (X axis) -

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FCC ID:H5P-FC200BTSD IC:6050AFC200BT

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT



Front view (Y axis) -



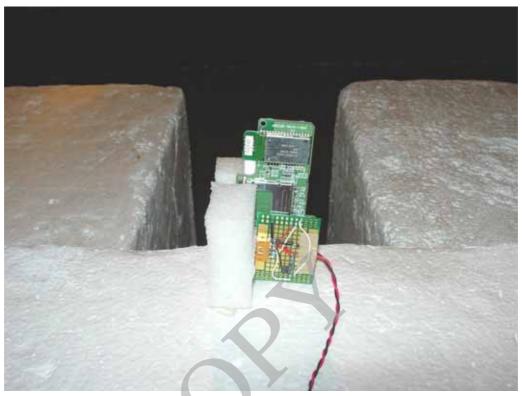
- Rear view (Y axis) -

Model No. :BT/SD Board
Standard :CFR 47 FCC Rules Part 15 IC RSS-210 and RSS-Gen

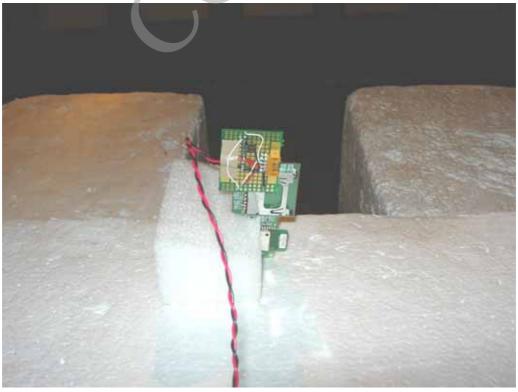
FCC ID:H5P-FC200BTSD IC:6050AFC200BT Issue Date :September 1, 2006

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PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT



Front view (Z axis) -



- Rear view (Z axis) -

Model No. :BT/SD Board
Standard :CFR 47 FCC Rules Part 15

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PHOTOGRAPHS OF EUT CONFIGURATION FOR AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT



- Front view -



- Side View -



Model No. :BT/SD Board

Standard

:CFR 47 FCC Rules Part 15 IC RSS-210 and RSS-Gen

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2. TEST DATA

2.1 Channel Separation

Date : June 21, 2006

Temp.: <u>25</u> °C Humi.: 60 %

Mode of EUT : Hopping (Packet type: DH1) Test Port : Temporary antenna connector

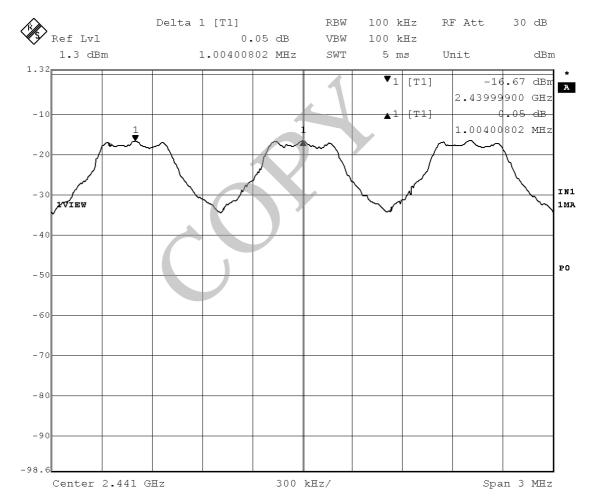
Channel Separation

Limit

(kHz)

1004.008

25 kHz or 20 dB bandwidth of hopping channel



Tested by : M. Music

Katsunori Miura

Testing Engineer



Standard

Model No. :BT/SD Board

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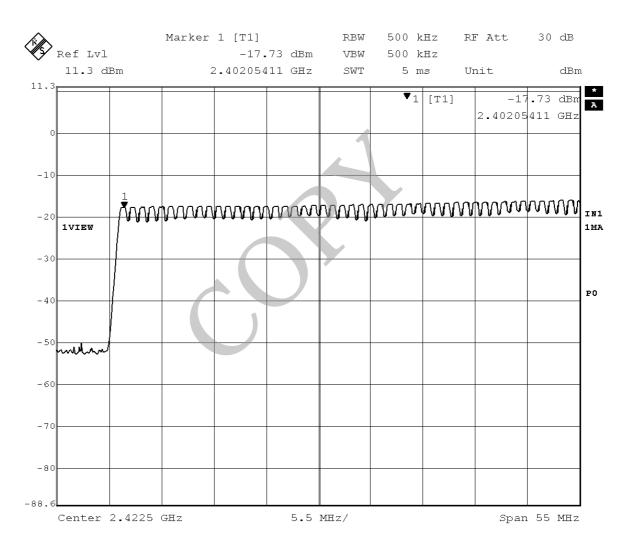
2.2 Minimum Hopping Channel

Date: June 21, 2006

Temp.: <u>25 °C</u> Humi.: 60 %

Mode of EUT : Hopping(Packet type: DH1) Test Port : Temporary antenna connector

> Hopping Channel Limit 79 15





Model No. :BT/SD Board

Standard :CFR 4

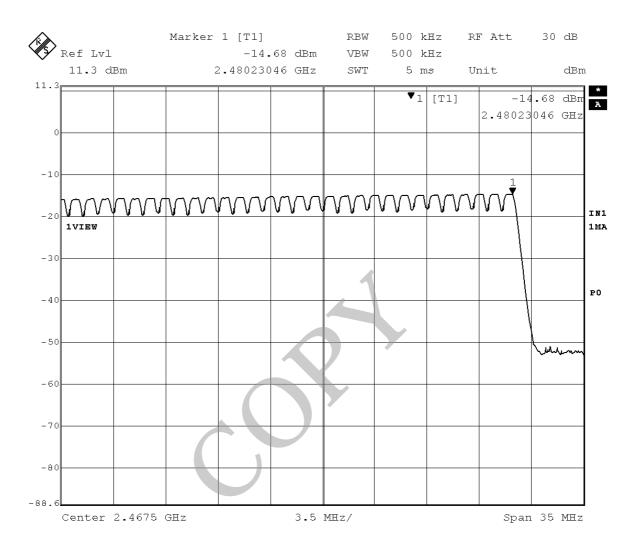
:CFR 47 FCC Rules Part 15
IC RSS-210 and RSS-Gen

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RSS-210 and RSS-Gen



Tested by :

Katsunori Miura Testing Engineer



Model No. :BT/SD Board

Standard

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2.3 Occupied Bandwidth

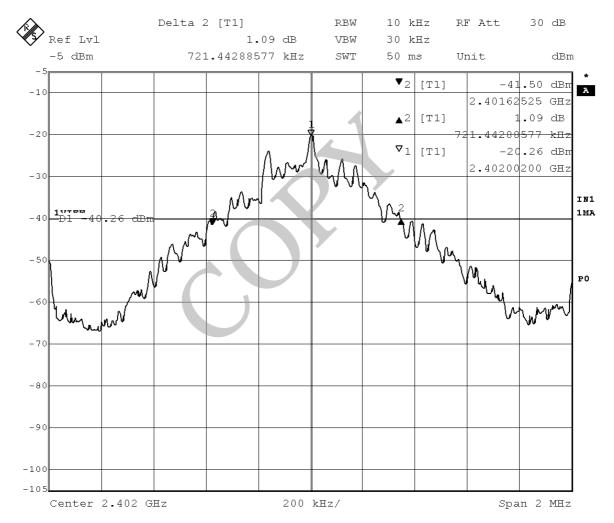
Date : _____June 21, 2006

Temp.: <u>25 °C</u> Humi.: <u>60 %</u>

Mode of EUT : TX (Och: 2402 MHz, Packet type: DH1)

Test Port : Temporary antenna connector

Bandwidth Limit (kHz) (kHz) 721.4 N/A





Model No. :BT/SD Board

Standard

:CFR 47 FCC Rules Part 15

IC RSS-210 and RSS-Gen

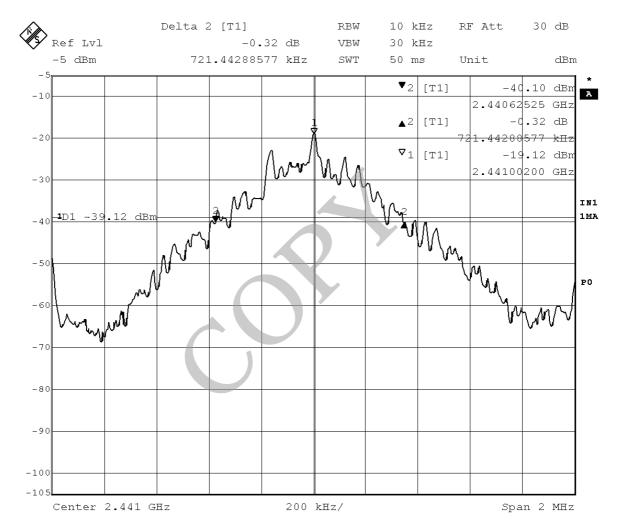
FCC ID:H5P-FC200BTSD IC:6050AFC200BT Issue Date :September 1, 2006

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Mode of EUT: TX (39ch: 2441 MHz, Packet type: DH1)

Test Port : Temporary antenna connector

Bandwidth Limit (kHz) (kHz) 721.4 N/A





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Standard

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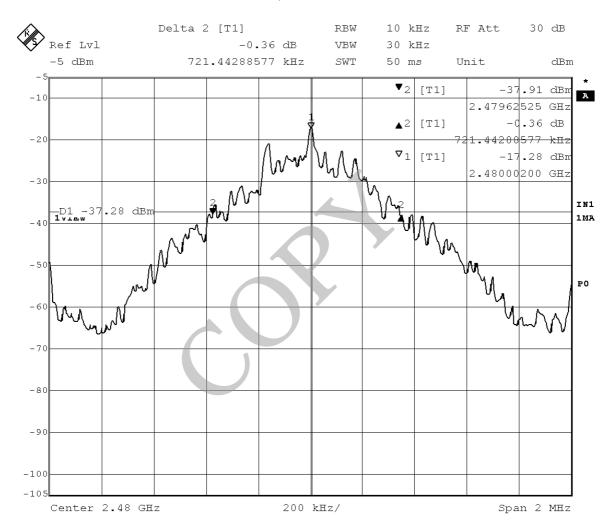
FCC ID:H5P-FC200BTSD IC:6050AFC200BT Issue Date :September 1, 2006

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Mode of EUT: TX (78ch: 2480 MHz, Packet type: DH1)

Test Port : Temporary antenna connector

Bandwidth Limit (kHz) (kHz) 721.4 N/A



Tested by :

Katsunori Miura

Testing Engineer



Standard

:BT/SD Board

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2.4 Dwell Time

Date : June 21, 2006

Temp.: 25 °C Humi.:

Mode of EUT : Hopping (Packet type: DH1) Test Port : Temporary antenna connector

> Dwell Time Limit

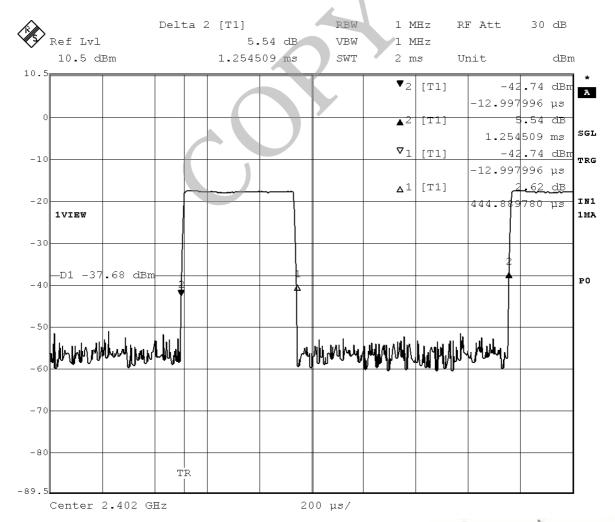
(ms)

142.4 400 ms per 31.6 s

Note: The system makes worst case 1600 hops per second or 1 time slot has a length of 625 μs with 79 channels. A DH1 Packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So the system has each channel 10.1266 times per second and so for 31.6 seconds the system have 320.0 times of appearance.

Each tx-time per appearance is 0.4449 ms.

Dwell time = 320.0 * 0.4449 = 142.4 ms



Tested by :

Katsunori Miura Testing Engineer



Model No.
Standard

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2.5 Peak Output Power (Conduction)

Date : ____June 21, 2006

Temp.: <u>25 °C</u> Humi.: <u>60 %</u>

Test Port : Temporary antenna connector

Packet Type: DH1

	Mode of EUT	Cable Loss	Att. Loss	Meter	Peak Power	Limit
		(dB)	(dB)	Reading	(dBm)	(dBm)
				(dBm)		
Γ	'X (2402 MHz)	1.8	10.08	-17.73	-5.85	30
Ι	'X (2441 MHz)	1.8	10.08	-16.55	-4.67	30
Ι	'X (2480 MHz)	1.8	10.08	-14.92	-3.04	30

Note: 1) Rated Supply Voltage: 3.3 VDC

2) A sample calculation was made at 2402 MHz.

CL + AL + MR = 1.8 + 10.08 - 17.73 = -5.85 (dBm)

CL : Cable Loss

AL : Attenuator Loss
MR : Meter Reading

Tested by

Katsunori Miura Testing Engineer



IC RSS-210 and RSS-Gen

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2.6 Peak Output Power (Radiation)

Not Applicable

2.7 Peak Power Density (Conduction)

Date : ____June 21, 2006 Temp.: <u>25 °C</u> Humi.: 60 %

Mode of EUT: TX (Och: 2402 MHz, Packet type: DH1)

Test Port : Temporary antenna connector

Cable Loss	Att. Loss	Meter Readin	g Peak Power	Limit	5
(dB)	(dB)	(dBm)	(dBm)	(dBm)	1
2.20	10.08	-28.87	-16.59	8	
Ref Lvl		er 1 [T1] -28.87 dBm 2.40199349 GHz	VBW 3 kHz	RF Att	
-8.67 CLBII	.1	2.40199349 GHZ		OHIC	CIBIII
-20			▼1 [T1	2.401993	.87 dBm A
-30		1	44		
-40	$\mathcal{M}_{\mathcal{M}}$		Www.M	M	IN1 1MA
-50					V PO
-60					F0
-70					
-80					
-90					
-100					
-108 Center 2	2.402 GHz	50 ki	Hz/	Span (500 kHz



IC RSS-210 and RSS-Gen

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Span 500 kHz

Mode of EUT : TX (39ch: 2441 MHz, Packet type: DH1)

Test Port : Temporary antenna connector

Center 2.441 GHz

(dB)	(dB)		g Peak Power (dBm) -15.51		
Ref Lvl -8.7 dBr		r 1 [T1] -27.79 dBm 2.44099349 GHz		RF Att 30	
-20		1	▼1 [T1]	-27.79 2.44099349	A
-30	MM	Mym	Mymyn	ham ha	IN1
-50	V				1MA
- 60					P0
-80					
-90					
-108					

50 kHz/



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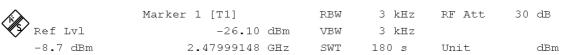
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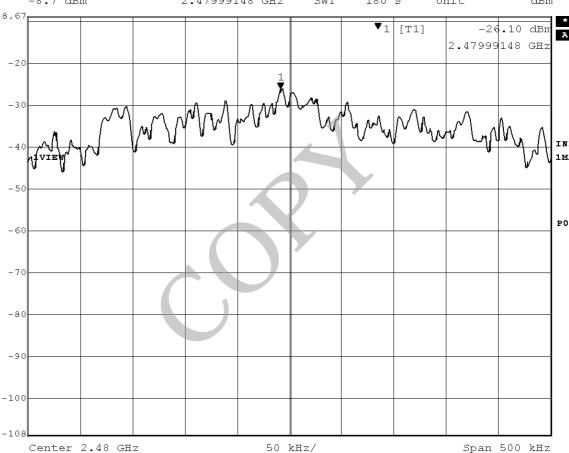
FCC ID:H5P-FC200BTSD IC:6050AFC200BT

Mode of EUT : TX (78ch: 2480 MHz, Packet type: DH1)

Test Port : Temporary antenna connector

Cable Loss	Att. Loss	Meter Reading	Peak Power	Limit
(dB)	(dB)	(dBm)	(dBm)	(dBm)
2.20	10.08	-26.10	-13.82	8





Note: 1) A sample calculation was made.

CL + AL + MR = 2.20 + 10.08 - 28.87 = -16.59 (dBm)

CL : Cable Loss AL: Attenuator Loss

MR : Meter Reading

2) Measuring Instruments Setting:

Detector Function Resolution Bandwidth

Peak 3 kHz

Tested by :

Katsunori Miura Testing Engineer



Model No.

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Standard :CFR 47 FCC Rules Part 15

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2.8 Peak Power Density (Radiation)

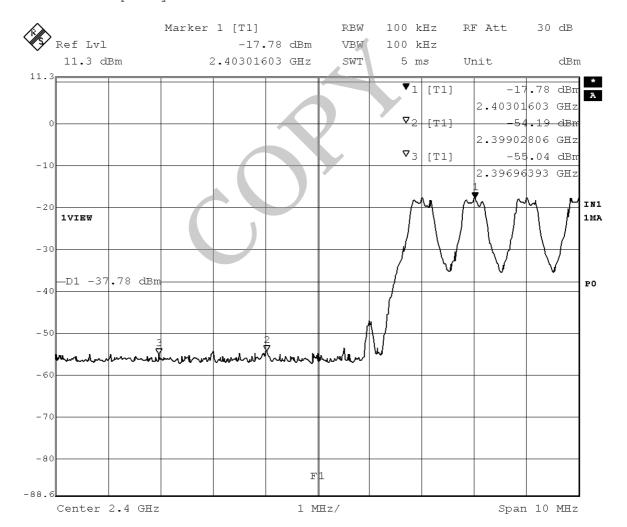
Not Applicable

2.9 Spurious Emissions (Conduction)

Date : ___June 21, 2006 Temp.: 25 °C Humi.: 60 %

2.9.1 Band Edge Compliance

Mode of EUT : Hopping(Packet type: DH1) Test Port : Temporary antenna connector





Model No. :BT/SD Board

Standard

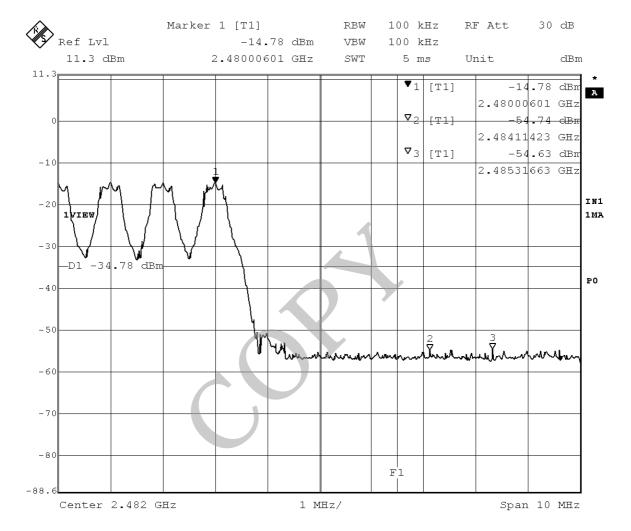
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FCC ID:H5P-FC200BTSD IC:6050AFC200BT

Mode of EUT : Hopping(Packet type: DH1) Test Port : Temporary antenna connector





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FCC ID:H5P-FC200BTSD IC:6050AFC200BT Issue Date :September 1, 2006

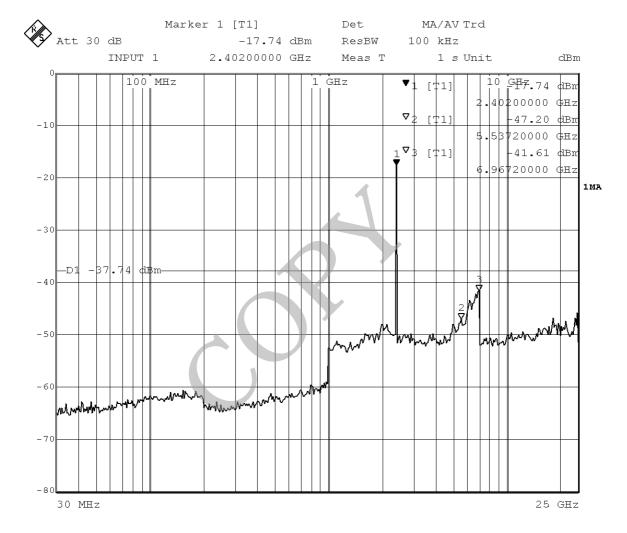
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2.9.2 Other Spurious Emissions

Mode of EUT: TX (Och: 2402 MHz, Packet type: DH1)

Test Port : Temporary antenna connector

No spurious emissions of the EUT in the range 20 dB below the limit.





Model No. :BT/SD Board

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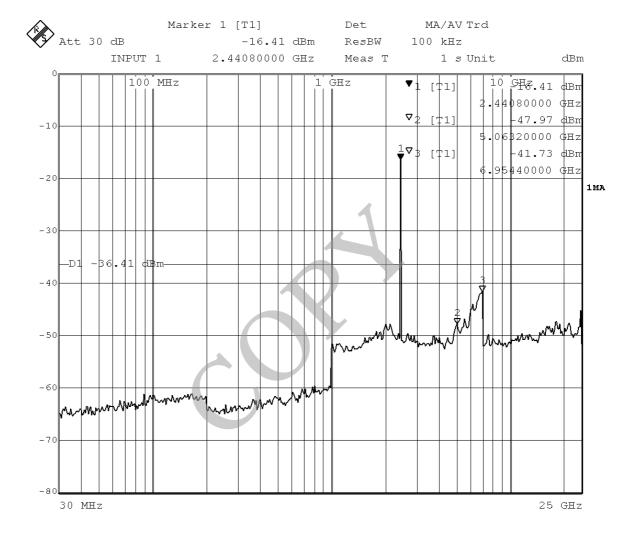
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Mode of EUT : TX (39ch: 2441 MHz, Packet type: DH1)

Test Port : Temporary antenna connector

No spurious emissions of the EUT in the range 20 dB below the limit.





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IC RSS-210 and RSS-Gen

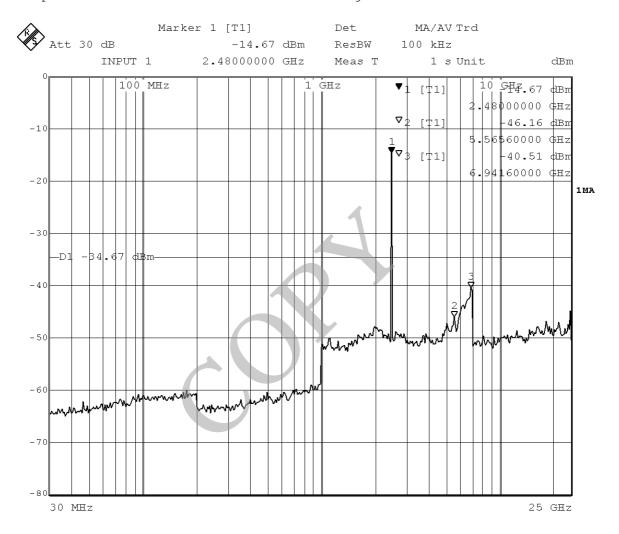
FCC ID:H5P-FC200BTSD IC:6050AFC200BT Issue Date :September 1, 2006

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Mode of EUT: TX (78ch: 2480 MHz, Packet type: DH1)

Test Port : Temporary antenna connector

No spurious emissions of the EUT in the range 20 dB below the limit.



Tested by :

Katsunori Mira Testing Engineer/



Model No. :BT/SD Board

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2.10 Spurious Emissions (Radiation)

2.10.1 Band Edge Compliance

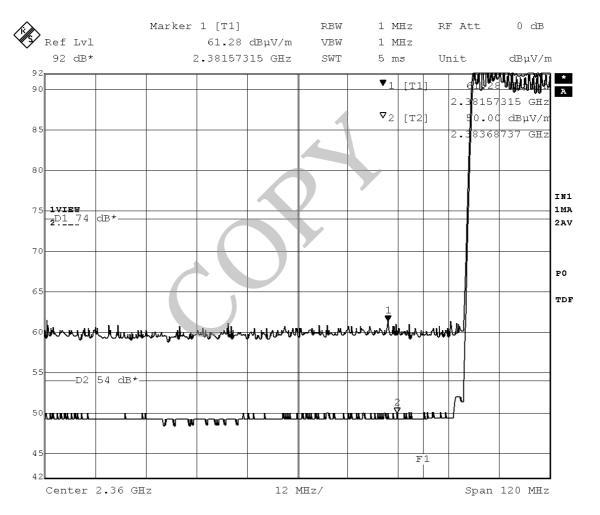
Date : ____June 13, 2006

Temp.: <u>23 °C</u> Humi.: <u>52 %</u>

Mode of EUT : Hopping(Packet type: DH1)

Test Port : Enclosure

Antenna Polarization: Horizontal





Model No.

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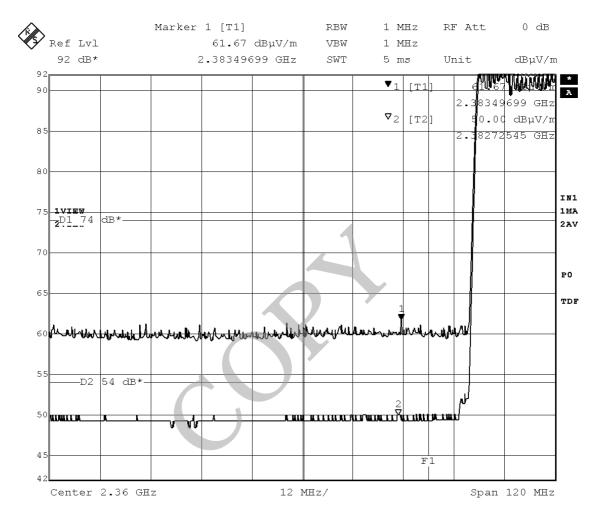
FCC ID:H5P-FC200BTSD IC:6050AFC200BT

Issue Date :September 1, 2006

Mode of EUT : Hopping(Packet type: DH1)

Test Port : Enclosure

Antenna Polarization: Vertical





Standard

Model No. :BT/SD Board

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FCC ID:H5P-FC200BTSD IC:6050AFC200BT

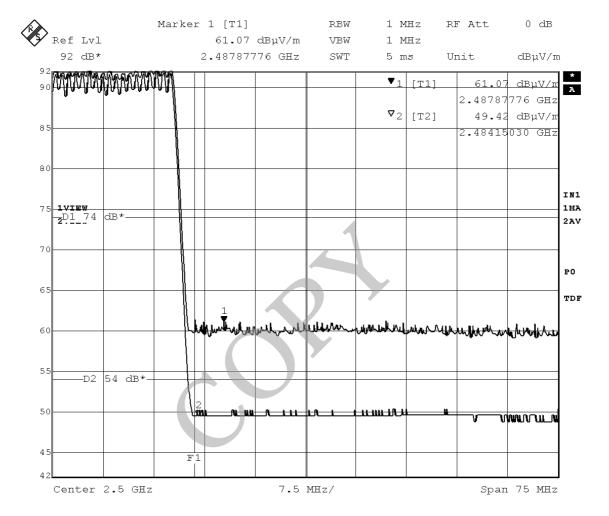
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Mode of EUT : Hopping(Packet type: DH1)

Test Port : Enclosure

Antenna Polarization: Horizontal





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FCC ID:H5P-FC200BTSD IC:6050AFC200BT

Mode of EUT : Hopping(Packet type: DH1)

Test Port : Enclosure

Antenna Polarization: Vertical

Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	0 dB
92 dB*	61.69 dBµV/m 2.49824850 GHz	VBW SWT	1 MHz 5 ms	Unit	dBμV/m
92 90	WW I		▼ ₁ [T1]	61.6	dBµV/m
			▽ 2 [T2]		1850 GHz dBµV/m
8.5					0000 GHz
80					
75 1VIEW 2D1 74 dB*					
70					
65					
60	What when we will	when	سلامل بالسائريين	white/helite	MINIMALIM.
55D2 54 dB*-					
50	SALINIM WALLANDO		W. W. L. L. L. W. L. R.	nı ı	
4.5	F1				
42					

Katsunori Miura Testing Engineer JQA File No. :400-60185
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2.10.2 Other Spurious Emissions

2.10.2.1 Spurious Emissions in the frequency range from 9 kHz to 30 MHz

Test Port : Enclosure

Mode of EUT : The one packet type (DH1) have been investigated and the worst

Channel (78ch: 2480 MHz) has been listed.

No spurious emissions in the range 20 dB below the limit.





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2.10.2.2 Spurious Emissions in the frequency range from 30 MHz to 1000 MHz

Temp.: 25 °C Humi.: 60 %

Test Port : Enclosure

Mode of EUT : The one packet type (DH1) have been investigated and the worst

Channel (78ch: 2480 MHz) has been listed.

Frequ- ency	P-A Factor	Correction Factor	n Polari- zation	Met	er Readi (dBuV)	.ng		mits ıV/m)	Emission (dBu		Març (d	
(MHz)	(dB)	(dB)		QP	AV	Peak	QP/AV	Peak	QP/AV	Peak	QP/AV	Peak
144.01	0.0	15.5	Н	7.8	-	-	43.5	-	23.3	-	20.2	_
192.02	0.0	17.6	Н	11.4	-	-	43.5	-	29.0	-	14.5	-
240.02	0.0	19.3	Н	6.5	-	-	46.0	-	25.8	_	20.2	-
288.02	0.0	20.9	Н	4.7	-	-	46.0	-	25.6	-	20.4	-
304.01	0.0	18.2	Н	11.8	-	-	46.0	-	30.0	-	16.0	-
336.02	0.0	18.1	Н	15.3	-	4	46.0	_	33.4	-	12.6	-
352.01	0.0	18.3	Н	5.7	_	_	46.0	_	24.0	_	22.0	_

Notes : 1) The spectrum was checked from 30 MHz to 1000 MHz.

- 2) The cable loss, amp. gain and antenna factor are included in the correction factor.
- 3) The symbol of "<"means "or less".
- 4) The symbol of ">"means "or greater".
- 5) A sample calculation (QP/AV) was made at 144.01 (MHz).

PA + Cf + Mr = 0 + 15.5 + 7.8 = 23.3 (dBuV/m)

PA = Peak to Average Factor(P-A Factor)

Cf = Correction Factor

Mr = Meter Reading

6) Measuring Instrument Setting:

<u>Detector function</u> <u>Resolution Bandwidth Video Bandwidth</u> Quasi-peak(QP) 120 kHz



Standard

Model No. :BT/SD Board

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2.10.2.3 Spurious Emissions in the frequency above 1000 MHz

Date : ____June 13, 2006

Temp.: <u>25 °C</u> Humi.: <u>60 %</u>

Test Port : Enclosure

Mode of EUT : TX (Och: 2402 MHz, Packet type: DH1)

Frequency	r P-A	Correction	nPolari-	Meter I	Reading	Li	mits	Emission	Levels	Marg	jins
	Factor	Factor	zation	(dB	uV)	(dE	BuV/m)	(dBu	V/m)	(d	В)
(GHz)	(dB)	(dB)		AV	Peak	AV	Peak	AV	Peak	AV	Peak
1.2010	0.0	-3.0	V	40.3	45.6	54.0	74.0	37.3	42.6	16.7	31.4
3.6030	0.0	5.1	V <	28.0 <	< 41.0	54.0	74.0	< 33.1 <	46.1 >	20.9 >	27.9
4.8040	0.0	7.4	V <	28.0 <	< 41.0	54.0	74.0	< 35.4 <	48.4 >	18.6 >	25.6

Mode of EUT: TX (39ch: 2441 MHz, Packet type: DH1)

Frequency	P-A	Correction	Polari-	Meter	Reading	Li	mits	Emissio	n Levels	Mar	gins
	Factor	Factor	zation	(dE	BuV)	(dI	BuV/m)	(dBu	ıV/m)	(d	lB)
(GHz)	(dB)	(dB)		AV	Peak	AV	Peak	AV	Peak	AV	Peak
1.2205	0.0	-2.9	Н	45.4	48.3	54.0	74.0	42.5	45.4	11.5	28.6
3.6615	0.0	5.2	Н <	28.0	< 41.0	54.0	74.0	< 33.2	< 46.2 >	20.8	> 27.8
4.8820	0.0	7.5	V	28.2	< 41.0	54.0	74.0	35.7	< 48.5	18.3	> 25.5

Mode of EUT : TX (78ch: 2480 MHz, Packet type: DH1)

Frequency	P-A	Correction	Polari-	Meter	Reading	Li	mits	Emissio	n Levels	Marq	jins
	Factor	Factor	zation	(dI	BuV)	(dE	BuV/m)	(dBu	V/m)	(d	В)
(GHz)	(dB)	(dB)		AV	Peak	AV	Peak	AV	Peak	AV	Peak
1.2400	0.0	-4.5	V	45.1	48.2	54.0	74.0	40.6	43.7	13.4	30.3
3.3080	0.0	5.7	V	< 28.0	< 41.0	54.0	74.0	< 33.7 <	46.7 >	20.3 >	27.3
4.9600	0.0	9.1	V	28.9	< 41.0	54.0	74.0	38.0 <	50.1	16.0 >	23.9

Model No.

Standard

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Notes: 1) The spectrum was checked from $1.0~\mathrm{GHz}$ to $26.5~\mathrm{GHz}$.

2) The cable loss, amp. gain and antenna factor are included in the correction factor.

3) The symbol of "<"means "or less".

4) The symbol of ">"means "or greater".

5) A sample calculation (Peak) was made at 1.201 (GHz).

PA + Cf + Mr = 0 + -3 + 45.6 = 42.6 (dBuV/m)

PA = Peak to Average Factor(P-A Factor)

Cf = Correction Factor

Mr = Meter Reading

6) Measuring Instrument Setting:

<u>Detector function</u> <u>Resolution Bandwidth Video Bandwidth</u> Average(AV) 1 MHz 10 Hz

Peak 1 MHz

Tested by :

Katsunori Miura

Testing Engineer

1 MHz



Model No.

:BT/SD Board

Standard

:CFR 47 FCC Rules Part 15 IC RSS-210 and RSS-Gen

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2.11 AC Power Line Conducted Emissions

Date : __ August 31, 2006 Temp.: 23 °C Humi.: 57 %

Frequency				ding (dE		Limits (dBuV)		Emission Level				
	Factor	V-	·A	V	-B	(aE	3u∨)	(al	3u∨)	((dB)	
(MHz)	(dB)	Q.P	AVE	Q.P	AVE	Q.P	AVE	Q.P	AVE	Q.P	AVE	
0.15	0.3	54.5	31.5	54.5	31.5	66.0	56.0	54.8	31.8	11.2	24.2	
0.18	0.3	51.0	-	51.0	-	64.5	54.5	51.3	-	13.2	_	
0.22	0.2	47.5	-	47.5	-	62.8	52.8	47.7	-	15.1	-	
0.70	0.1	18.4	-	17.5	-	56.0	46.0	18.5	_	37.5	-	
1.00	0.1 <	10.0	_	< 10.0	-	56.0	46.0	< 10.1	-	> 45.9	-	
3.00	0.2 <	10.0		< 10.0	_	56.0	46.0	< 10.2	-	> 45.8	_	
5.97	0.2	12.0	-	10.5	-	60.0	50.0	12.2	-	47.8	-	
8.00	0.3 <	10.0	_	< 10.0	-	60.0	50.0	< 10.3	-	> 49.7	-	
10.86	0.3	14.0	-	12.0	-	60.0	50.0	14.3	-	45.7	-	
12.75	0.4	14.0	-	14.0	-	60.0	50.0	14.4	-	45.6	-	
16.22	0.4	13.5	_	12.5	_	60.0	50.0	13.9	_	46.1	-	
21.98	0.5	18.4	_	14.0	-	60.0	50.0	18.9	_	41.1	-	
30.00	0.7	21.5	-	21.0	-	60.0	50.0	22.2	_	37.8	-	

Notes : 1) The spectrum was checked from 0.15 MHz to 30 MHz.

- 2) The cable loss is included in the LISN factor.
- 3) The symbol of "<"means "or less".
- 4) The symbol of ">"means "or greater".5) The symbol of "-"means "Not applicable".
- 6) V-A : One end & Ground V-B : The other end & Ground
- 7) Q.P : Quasi-peak AVE : Average
- 8) A sample calculation was made at 0.15 (MHz).

Lf + Mr = 0.3 + 54.5 = 54.8 (dBuV)

Lf = LISN Factor Mr = Meter Reading

Tested by :

Katsunori Miura Testing Engineer

2.12 RF Exposure Compliance

Not Applicable

Standard

Model No. :BT/SD Board

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2.13 Spurious Emissions for Receiver (Radiation)

2.13.1 Spurious Emissions in the frequency range from 30 MHz to 1000 MHz

Date : June 13, 2006

Temp.: 25 °C Humi.: 60 %

Test Port : Enclosure

Mode of EUT: The one packet type (DH1) have been investigated and the worst

Channel (78ch: 2480 MHz) has been listed.

Frequ- ency	P-A Factor	Correction Factor	nPolari- zation	Met	er Readi (dBuV)	ng		nits ıV/m)	Emission (dBu		Marq (dl	
(MHz)	(dB)	(dB)		QP	AV	Peak	QP/AV	Peak	QP/AV	Peak	QP/AV	Peak
144.00	0.0	15.5	Н	8.3	-	-	43.5	-	23.8	-	19.7	-
192.00	0.0	17.6	Н	10.0	-	-	43.5	-	27.6	-	15.9	-
240.01	0.0	19.3	Н	6.7	-	-	46.0	-	26.0	_	20.0	-
288.00	0.0	20.9	Н	5.3	-	-/-	46.0	-	26.2	-	19.8	-
304.02	0.0	18.2	Н	11.0	-	-	46.0	_	29.2	-	16.8	-
336.00	0.0	18.1	Н	14.6	-	-	46.0	-	32.7	-	13.3	_
352.00	0.0	18.3	H	5.5	-	, J-Z	46.0	_	23.8	_	22.2	_

Notes :

- 1) The spectrum was checked from 30 MHz to 1000 MHz.
 - 2) The cable loss, amp. gain and antenna factor are included in the correction factor.
 - 3) The symbol of "<"means "or less".
 - 4) The symbol of ">"means "or greater".
 - 5) A sample calculation(QP/AV) was made at 144 $\,$ (MHz).

PA + Cf + Mr = 0 + 15.5 + 8.3 = 23.8 (dBuV/m)

PA = Peak to Average Factor(P-A Factor)

Cf = Correction Factor

Mr = Meter Reading

6) Measuring Instrument Setting :

<u>Detector function</u> <u>Resolution Bandwidth Video Bandwidth</u> 120 kHz Quasi-peak(QP)



Standard

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2.13.2 Spurious Emissions in the frequency above 1000 MHz

Date : ____June 13, 2006

Temp.: <u>25 °C</u> Humi.: <u>60 %</u>

Test Port : Enclosure

Mode of EUT : RX (Och: 2402 MHz, Packet type: DH1)

Frequency	P-A	CorrectionPolari-		Meter Reading		Liı	mits	Emission Levels		Margins	
	Factor	Factor	zation	(dE	BuV)	(dE	BuV/m)	(dBuV/m)		(dB)	
(GHz)	(dB)	(dB)		AV	Peak	AV	Peak	AV	Peak	AV	Peak
1.2004	0.0	-4.8	Н	42.2	45.9	54.0	74.0	37.4	41.1	16.6	32.9
2.4004	0.0	2.2	V	39.6	44.5	54.0	74.0	41.8	46.7	12.2	27.3

Mode of EUT: RX (39ch: 2441 MHz, Packet type: DH1)

Frequency	P-A	Correction	nPolari-	Meter	Reading	Li	mits	Emissio	n Levels	Mar	gins
	Factor	Factor	zation	(d	BuV)	(dI	BuV/m)	(dBu	ıV/m)	(d	lB)
(GHz)	(dB)	(dB)		AV	Peak	AV	Peak	AV	Peak	AV	Peak
1.2196	0.0	-4.6	V	44.9	47.8	54.0	74.0	40.3	43.2	13.7	30.8
2.4396	0.0	2.3	V	38.7	43.9	54.0	74.0	41.0	46.2	13.0	27.8

Mode of EUT: RX (78ch: 2480 MHz, Packet type: DH1)

Frequency P-A	Correction	Polari-	Meter R	eading	Lir	nits	Emission	n Levels	Mar	gins
Fact	or Factor	zation	(dBi	V)	(dE	uV/m)	(dBu	V/m)	(d	lB)
(GHz) (dB) (dB)		AV	Peak	AV	Peak	AV	Peak	AV	Peak
1.2388 0	.0 -4.5	V	45.5	48.7	54.0	74.0	41.0	44.2	13.0	29.8
2.4788 0	.0 2.3	V	38.8	44.5	54.0	74.0	41.1	46.8	12.9	27.2

Model No.

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Notes: 1) The spectrum was checked from 1.0 GHz to $26.5 \, \mathrm{GHz}$.

2) The cable loss, amp. gain and antenna factor are included in the correction factor.

3) The symbol of "<"means "or less".

4) The symbol of ">"means "or greater".

5) A sample calculation (Peak) was made at 1.2004 (GHz).

PA + Cf + Mr = 0 + -4.8 + 45.9 = 41.1 (dBuV/m)

PA = Peak to Average Factor(P-A Factor)

Cf = Correction Factor

Mr = Meter Reading

6) Measuring Instrument Setting:

Resolution Bandwidth Video Bandwidth <u>Detector function</u>

Average(AV) Peak

1 MHz 1 MHz

10 Hz 1 MHz

Tested by :

Katsunori Miura

Testing Engineer



Model No.

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Issue Date :September 1, 2006

2.14 AC Power Line Conducted Emissions for Receiver

Date : __ August 31, 2006 Temp.: <u>23 °C</u> Humi.: <u>57 %</u>

Frequency	LISN	М	eter Rea	adi	ng (dE	BuV)	Limi	ts	Emissi	on Lev	el Mar	gins
	Factor	V-	-A		V	-B	(dI	BuV)	(dI	BuV)	((dB)
(MHz)	(dB)	Q.P	AVE		Q.P	AVE	Q.P	AVE	Q.P	AVE	Q.P	AVE
0.15	0.3	55.4	31.5		55.2	31.7	66.0	56.0	55.7	32.0	10.3	24.0
0.18	0.3	51.2	-		51.2	-	64.5	54.5	51.5	-	13.0	-
0.22	0.2	47.0	-		47.3	-	62.8	52.8	47.5	-	15.3	-
0.70	0.1	18.0	-		17.6	-	56.0	46.0	18.1	-	37.9	-
1.00	0.1 <	10.0	-	<	10.0	-	56.0	46.0	< 10.1	-	> 45.9	-
3.00	0.2 <	10.0	_	<	10.0	_	56.0	46.0	< 10.2	-	> 45.8	_
5.97	0.2	12.7	-	<	10.0	-	60.0	50.0	12.9	-	47.1	-
8.00	0.3 <	10.0	-	<	10.0	-	60.0	50.0	< 10.3	_	> 49.7	-
10.86	0.3	14.0	-		12.0	-	60.0	50.0	14.3	-	45.7	-
12.75	0.4	12.0	-		14.5	-	60.0	50.0	14.9	-	45.1	-
16.22	0.4	13.2	_		13.5	_	60.0	50.0	13.9	_	46.1	_
21.98	0.5	19.1	_		14.9	-	60.0	50.0	19.6	_	40.4	-
30.00	0.7	21.7	_		21.7	-	60.0	50.0	22.4	-	37.6	-

Notes : 1) The spectrum was checked from 0.15 MHz to 30 MHz.

- 2) The cable loss is included in the LISN factor.
- 3) The symbol of "<"means "or less".
- 4) The symbol of ">"means "or greater".5) The symbol of "-"means "Not applicable".
- 6) V-A : One end & Ground V-B : The other end & Ground
- 7) Q.P : Quasi-peak AVE : Average
- 8) A sample calculation was made at 0.15 (MHz).

Lf + Mr = 0.3 + 55.4 = 55.7 (dBuV)

Lf = LISN Factor

Mr = Meter Reading

Katsunori Miura Testing Engineer



Model No. :BT/SD Board

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Appendix

Test Instruments List



IC RSS-210 and RSS-Gen

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					31-Aug-2006	
No Type	Model	Manufacturer	Serial	ID	Last Cal.	Interval
Test Facilities:						
1 Anechoic Chamber A	-	TDK	_	800-01-502E0	Mar 2006	1 Year
2 Anechoic Chamber B	-	TDK	_	800-01-503E0	Mar 2006	1 Year
3 Shield Room A	-	TDK	-	800-01-501E0	_	-
4 Shield Room B	-	Ray Proof	-	800-01-010E0		_
5 Shield Room C	-	TDK	_	800-01-504E0	_	_
6 Shield Room D	-	Emerson	_	800-01-022E0		_
7 Shield Room E	-	TDK	_	800-01-505E0		_
Measuring Instruments:						
10 Test Receiver	ESHS10	Rohde & Schwarz	835871/004	119-01-505E0	Apr 2006	1 Year
11 Test Receiver	ESVS10	Rohde & Schwarz	826148/002	119-03-504E0	Apr 2006	1 Year
12 Test Receiver	ESVS10	Rohde & Schwarz	832699/001	119-03-506E0	Apr 2006	1 Year
13 Test Receiver	ESI26	Rohde & Schwarz	100043	119-04-511E0	Aug 2006	1 Year
14 Spectrum Analyzer	R3182	Advantest	120600581	122-02-521E0	Mar 2006	1 Year
15 Spectrum Analyzer	8566B	Hewlett Packard	2140A01091	122-02-501E0	Oct 2005	1 Year
16 RF Pre-selector	85685A	Hewlett Packard	2648A00522	122-02-503E0	Oct 2005	1 Year
17 Spectrum Analyzer	8566B	Hewlett Packard	2747A05855	122-02-517E0	Apr 2006	1 Year
18 RF Pre-selector	85685A	Hewlett Packard	2901A00933	122-02-519E0	-	1 Year
19 Spectrum Analyzer	R3132	Advantest	120500072	122-02-520E0	-	1 Year
20 Spectrum Analyzer	R3132	Advantest	150400998	122-02-523E0	•	1 Year
65 Power Meter	436A	Hewlett Packard	1725A01930	100-02-501E0	Apr 2006	1 Year
66 Power Sensor	8482A	Hewlett Packard	1551A01013	100-02-501E0	-	1 Year
67 Power Sensor	8485A	Hewlett Packard	2942A08969	100-04-021E0	-	1 Year
68 FM Linear Detector	MS61A	Anritsu	M77486	123-02-008E0	-	1 Year
69 Level Meter	ML422C	Anritsu	M87571	114-02-501E0	Jun 2006	1 Year
70 Measuring Amplifier	2636	B & K	1614851	082-01-502E0		1 Year
75 Frequency Counter	53131A	Hewlett Packard	3546A11807	102-02-075E0	-	1 Year
83 FFT Analyzer	R9211C	Advantest	02020253	122-02-506E0	•	1 Year
84 Noise Meter	MN-446	Meguro	53030478	082-01-144E0		1 Year
86 Peak Power Analyzer		Hewlett Packard	3220A00486/	100-02-016E0	-	1 Year
J. J			3227A00118		r	
163 Digital Oscilloscope	54502A	Hewlett Packard	2934A05573	121-02-502E0	May 2006	1 Year
165 Multimeter	VOAC7413	Iwatsu Electric	0267973	114-02-502E0	v	1 Year
					•	
Antennas:						
21 Loop Antenna	HFH2-Z2	Rohde & Schwarz	881058/62	119-05-033E0	Jun 2006	1 Year
22 Dipole Antenna	KBA-511	Kyoritsu	0-170-1	119-05-506E0	Oct 2005	1 Year
23 Dipole Antenna	KBA-511A	Kyoritsu	0-201-13	119-05-504E0	Oct 2005	1 Year
24 Dipole Antenna	KBA-611	Kyoritsu	0-147-14	119-05-507E0	Oct 2005	1 Year
25 Dipole Antenna	KBA-611	Kyoritsu	0-170-1	119-05-505E0	Oct 2005	1 Year
26 Biconical Antenna	BBA9106	Schwarzbeck	VHA91031150	119-05-111E0	Nov 2005	1 Year
27 Biconical Antenna	BBA9106	Schwarzbeck	-	119-05-078E0	Nov 2005	1 Year
28 Log-peri. Antenna	UHALP9107	Schwarzbeck	-	119-05-079E0	Nov 2005	1 Year
29 Log-peri. Antenna	UHALP9107	Schwarzbeck	-	119-05-110E0	Nov 2005	1 Year
30 Log-peri. Antenna	HL025	Rohde & Schwarz	340182/015	119-05-100E0	Jan 2006	1 Year
31 Horn Antenna	3115	EMC Test Systems	6442	119-05-514E0	Jan 2006	2 Year
32 Horn Antenna	3116	EMC Test Systems	2547	119-05-515E0	May 2006	2 Year
		*				



IC RSS-210 and RSS-Gen

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					31-Aug-2006	
No Type	Model	Manufacturer	Serial	ID	Last Cal.	Interval
Cables:						
38 RF Cable	5D-2W	Fujikura	-	155-21-001E0	Feb 2006	1 Year
39 RF Cable	5D-2W	Fujikura	-	155-21-002E0	Feb 2006	1 Year
40 RF Cable	3D-2W	Fujikura	-	155-21-005E0	Apr 2006	1 Year
41 RF Cable	3D-2W	Fujikura	-	155-21-006E0	Apr 2006	1 Year
42 RF Cable	3D-2W	Fujikura	-	155-21-007E0	Apr 2006	1 Year
43 RF Cable	RG213/U	Rohde & Schwarz	-	155-21-010E0	Apr 2006	1 Year
44 RF Cable(10m)	S 04272B	Suhner	-	155-21-011E0	May 2006	1 Year
45 RF Cable(1.5m 18GHz)	S 04272B	Suhner	-	155-21-012E0	May 2006	1 Year
46 RF Cable(1m 18GHz)	SUCOFLEX	Suhner	-	155-21-013E0	May 2006	1 Year
47 RF Cable(1m N)	S 04272B	Suhner	-	155-21-015E0	Jun 2006	1 Year
48 RF Cable(1m 26GHz)	SUCOFLEX 104E	Suhner	14543/4E	155-21-016E0	Dec 2005	1 Year
49 RF Cable(4m 26GHz)	SUCOFLEX	Suhner	190630	155-21-017E0	Dec 2005	1 Year
50 RF Cable(10m)	F130-S1S1-394	MEGA PHASE	10510	155-21-018E0	Dec 2005	1 Year
51 RF Cable(7m)	3D-2W	Fujikura	4	155-21-009E0	Apr 2006	1 Year
52 RF Cable(7m)	RG223/U	Suhner	-	155-21-021E0	May 2006	1 Year
Networks:						
33 LISN	KNW-407	Kyoritsu	8-833-6	149-04-052E0	Apr 2006	1 Year
34 LISN	KNW-407	Kyoritsu	8-855-2	149-04-055E0	Apr 2006	1 Year
35 LISN	KNW-407	Kyoritsu	8-1130-6	149-04-062E0	Apr 2006	1 Year
36 LISN	KNW-242C	Kyoritsu	8-837-13	149-04-054E0	Apr 2006	1 Year
37 Absorbing Clamp	MDS21	Luthi	03293	119-06-506E0	Aug 2006	1 Year
164 LISN	KNW-403D	Kyoritsu	8-1474-3	149-04-059E0	Apr 2006	1 Year
Amplifiers:		1				
53 AF Amplifier	P-500L	Accuphase	BOY806	127-01-501E0	Feb 2006	1 Year
54 RF Amplifier	WJ-6882-814	Watkins-Johnson	0414	127-04-017E0	Jun 2006	1 Year
55 RF Amplifier	WJ-5315-556	Watkins-Johnson	106	127-04-006E0	Jun 2006	1 Year
56 RF Amplifier	WJ-5320-307	Watkins-Johnson	645	127-04-005E0	Jun 2006	1 Year
57 RF Amplifier	JS4-00102600-	MITEQ	669167	127-04-502E0	Apr 2006	1 Year
	28-5A					
Generators:						
58 Function Generator	3325B	Hewlett Packard	2847A03284	118-08-124E0	Jul 2006	1 Year
59 Function Generator	VP-7422A	Matsushita Communication	050351E122	118-08-503E0	Jul 2006	1 Year
60 Signal Generator	8664A	Hewlett Packard	3035A00140	118-03-014E0	May 2006	1 Year
61 Signal Generator	8664A	Hewlett Packard	3438A00756	118-04-502E0	May 2006	1 Year
62 Signal Generator	6061A	Gigatronics	5130593	118-04-024E0	Mar 2006	1 Year



Standard

Model No. :BT/SD Board

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No	Туре	Model	Manufacturer	Serial	ID	Last Cal.	Interval
Othe	ers:						
63	Termination(50)	-	Suhner	-	154-06-501E0	Jan 2006	1 Year
64	Termination(50)	-	Suhner	-	154-06-502E0	Jan 2006	1 Year
71	Microphone	4134	B & K	1253497	147-01-502E0	May 2006	1 Year
72	Preamplifier	2639	B & K	1268763	127-01-504E0	-	-
73	Pistonphone	4220	B & K	1165008	147-02-501E0	Mar 2006	1 Year
74	Artificial Mouth	4227	B & K	1274869	-	-	-
76	Oven	-	Ohnishi	-	023-02-018E0	-	-
77	DC Power Supply	6628A	Hewlett Packard	3224A00284	072-05-503E0	Jun 2006	1 Year
78	Band RejectFilter	BRM12294	Micro-tronics	003	149-01-501E0	Jan 2006	1 Year
79	High Pass Filter	F-100-4000-5-	RLC Electronics	0149	149-01-502E0	Feb 2006	1 Year
80	Attenuator	43KC-10	Anritsu	-	148-03-506E0	Feb 2006	1 Year
81	Attenuator	43KC-20	Anritsu	-	148-03-507E0	Feb 2006	1 Year
82	Attenuator	355D	Hewlett Packard	219-10782	148-03-065E0	Apr 2006	1 Year
85	RF Detector	75KC-50	Anritsu	305002	100-02-506E0	Jul 2006	1 Year