

HCT.CO., LTD.

Product Compliance Division, EMC Team

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CERTIFICATE OF COMPLIANCE

FCC PART 15.247 Certification

Applicant Name:

LG Electronics Inc.

Address:

60-39, Kasan-dong, Keumchun-ku,

Seoul 153-801, Korea

Date of Testing:

Mar. 10, 2008

Test Site/Location:

HCT.CO., LTD., San 136-1 Ami-ri, Bubal-eup, Icheon-si,

Kyungki-do, Korea

Test Report No.: HCT-R08-022

HCT FRN: 0005866421

FCC ID:

BEJKT610

APPLICANT:

LG Electronics Inc.

Model(s):

KT610

EUT Type:

PCS GSM/EDGE Phone with Bluetooth

Max. RF Output Power:

2.82 dBm(1.91 mW)

Frequency Range: Modulation type

2402 - 2480 MHz (Bluetooth) GFSK(Normal), PSK(EDR)

FCC Classification:

FCC Part 15 Frequency Hopping Spread Spectrum Transceiver

FCC Rule Part(s):

Part 15 subpart C 15.247

Application Type:

Certification

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT.CO., LTD. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by

: Youn Seok Jung

: Sang Jun Lee

Test engineer of RF Part

Youn Sook Jung

Manager of RF Part

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1. GENERAL INFORMATION

Applicant: LG Electronics Inc.

60-39, Kasan-dong, Keumchun-ku,

Seoul 153-802, Korea

FCC ID: BEJKT610

EUT: PCS GSM/EDGE Phone with Bluetooth

Model: KT610

Date of Test: Mar. 10, 2008

Contact person: Name: Eui –Soon Park

Phone #: +82-2-2033-1113 Fax #: +82-2-2033-1222

2. EUT DESCRIPTION

Product	PCS GSM/EDGE Phone with Bluetooth		
Model Name	KT610		
Power Supply	DC 3.7 V		
Battery type	Standard		
Frequency Range	2402 ~ 2480 MHz		
Transmit Power	2.82 dBm(1.91 mW)		
Modulation Type	GFSK(Normal), PSK(EDR)		
Modulation Technique	FHSS		
Number of Channels	79 Channels		
Antenna Specification	Manufacturer: PARTRON Co., LTD. Antenna type: Chip ANTENNA Gain : -4.16 dBi		

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3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz(ANSI C63.4-2003) and FCC Public Notice DA 00-705 dated March 30, 2000 entitled "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" were used in the measurement of the **LG Electronics Inc. PCS GSM/EDGE Phone with Bluetooth. FCC ID: BEJKT610**

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version :2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version: 2003)

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

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4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1,Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 6, 2006(Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

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

* The antennas of this E.U.T are permanently attached.

*The E.U.T Complies with the requirement of §15.203

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7. FCC PART 15.247 REQUIREMENTS

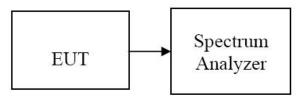
7.1 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. For systems using digital modulation in the bands of 902 ~ 928 MHz, 2400 ~ 2483.5 MHz, and 5725 ~ 5850 MHz: 1 watt.
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. The Spectrum Analyzer is set to the peak detector mode.

- 1. Span = 2 MHz(GFSK), 5 MHz(8DPSK)
- 2. RBW = 1 MHz(GFSK), 3 MHz(8DPSK)
- 3. VBW = 1 MHz(GFSK), 3 MHz(8DPSK)
- 4. Sweep = auto

TEST RESULTS

No non-compliance noted

Test Data

(Normal)

Channel	Frequency	Output Po	wer(GFSK)	Output Pov	ver(8DPSK)	Limit	Result
Chamilei	(MHz)	(dBm)	(mW)	(dBm)	(mW)	(W)	Result
Low	2402	2.69	1.85	-0.96	0.80		PASS
Mid	2441	2.82	1.91	-0.90	0.81	1	PASS
High	2480	2.59	1.81	-1.52	0.70		PASS

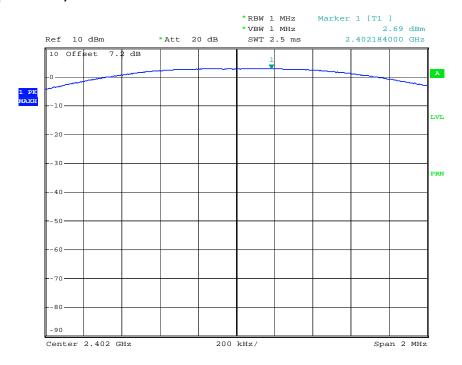
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Test Plots

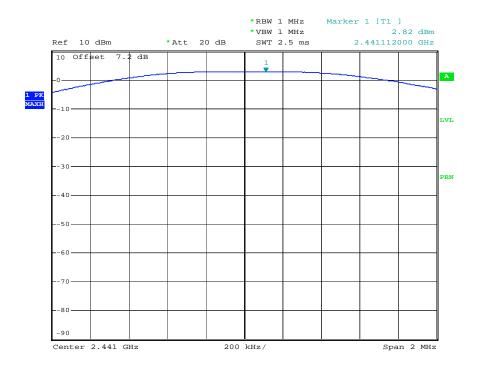
(GFSK)

Peak Power (Low CH)



Date: 3.MAR.2008 14:12:10

Peak Power (Mid CH)

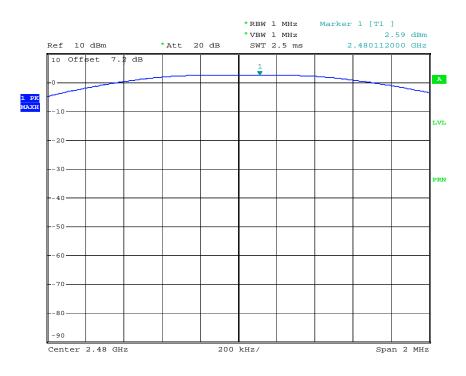


Date: 3.MAR.2008 14:13:28

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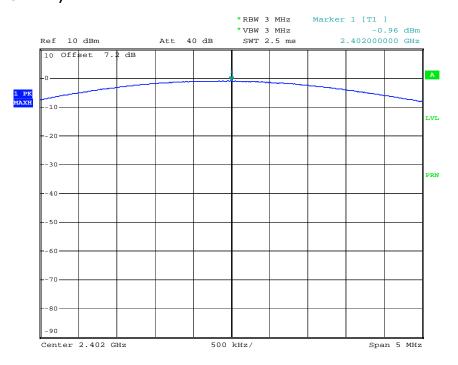
Peak Power (High CH)



Date: 3.MAR.2008 14:13:54

(8DPSK)

Peak Power (Low CH)

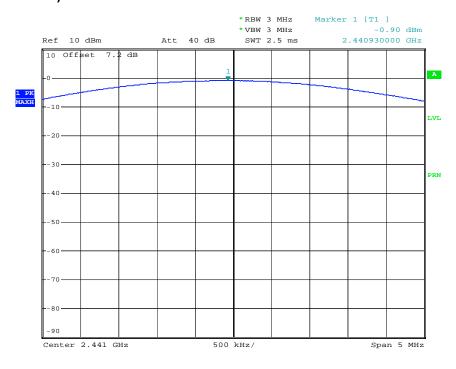


Date: 3.MAR.2008 12:17:18

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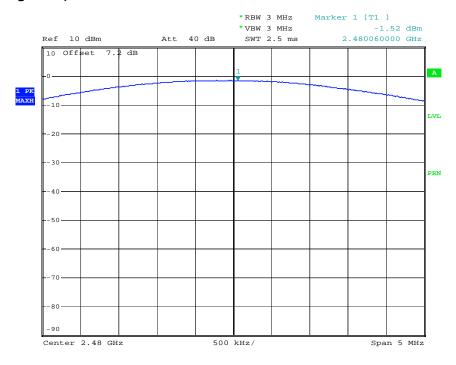


Peak Power (Mid CH)



Date: 3.MAR.2008 12:55:40

Peak Power (High CH)



Date: 3.MAR.2008 12:56:05

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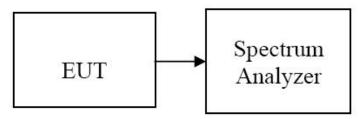


7.2 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Configuration



TEST PROCEDURE

The spectrum analyzer is set to:

- 1. Span = 8 MHz
- 2. RBW = 100 kHz
- 3. VBW = 300 kHz
- 4. Sweep = auto
- 5. Detector Mode = Peak

TEST RESULTS

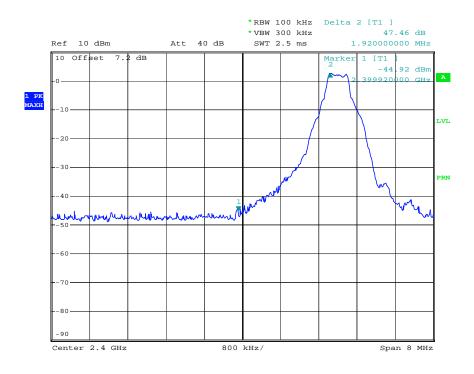
See attached.

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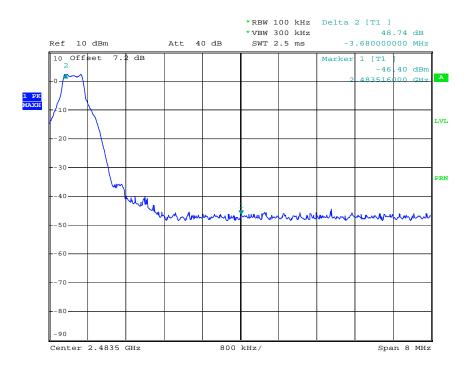
Test Data (GFSK)

Band Edges (Low- CH)



Date: 3.MAR.2008 12:59:31

Band Edges (High-CH)

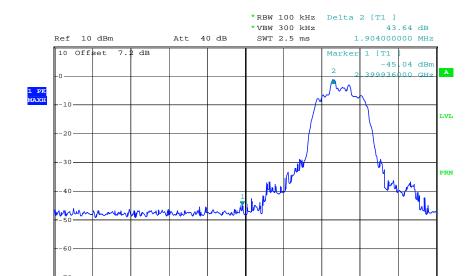


Date: 3.MAR.2008 12:58:32

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Test Data (8DPSK) Band Edges (Low- CH)



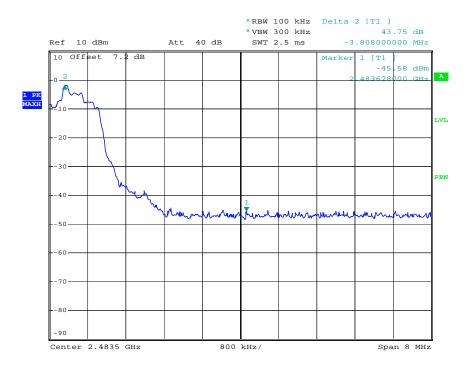
800 kHz/

Span 8 MHz

Date: 3.MAR.2008 13:00:29

Center 2.4 GHz

Band Edges (High-CH)



Date: 3.MAR.2008 12:57:32

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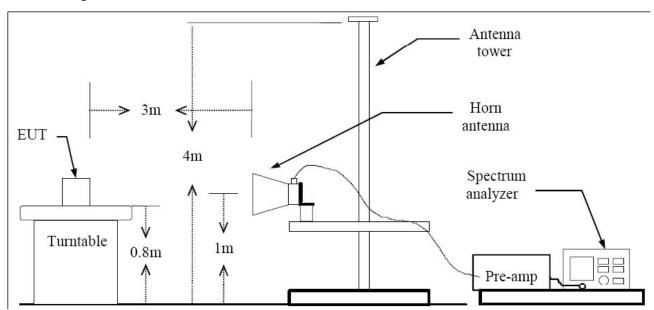


7.2.1 BAND EDGES MEASUREMENT (RADIATED))

LIMIT

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

Test Configuration



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
- (a) PEAK: RBW = VBW = 1 MHz / Sweep = AUTO
- (b) AVERAGE: RBW = 1 MHz / VBW = 10 Hz / Sweep = AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

TEST RESULTS

Refer to attach spectrum analyzer data chart.

Test Data

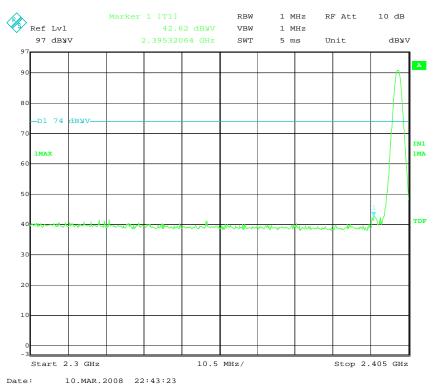
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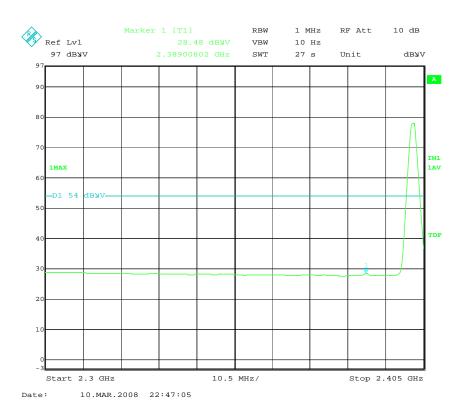


Test Plots(GFSK)

(Low- CH) Polarity: Vertical

Detector mode: Peak



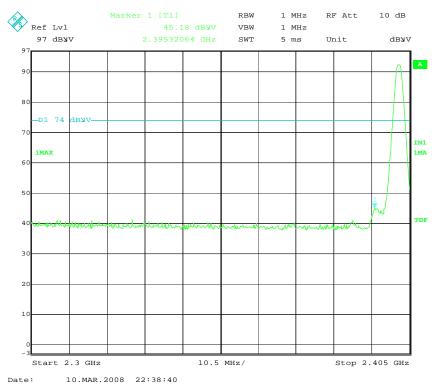


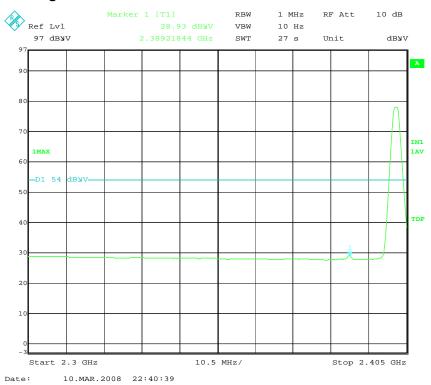
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(Low- CH) Polarity: Horizontal

Detector mode: Peak





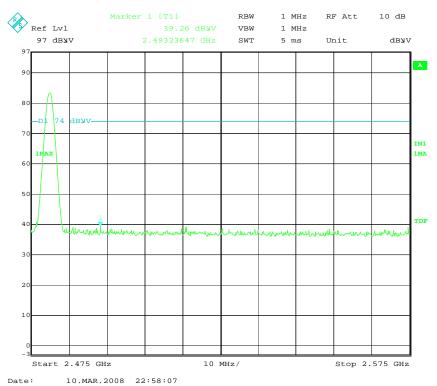
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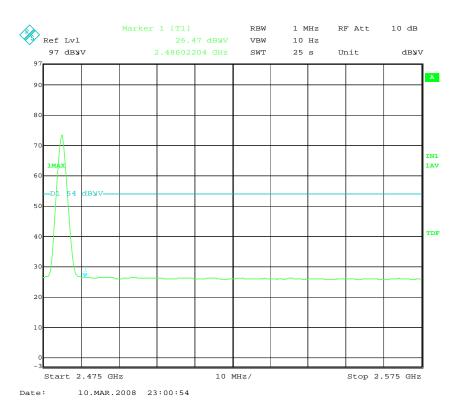


Test Plots, (High-CH)

Polarity: Vertical

Detector mode: Peak



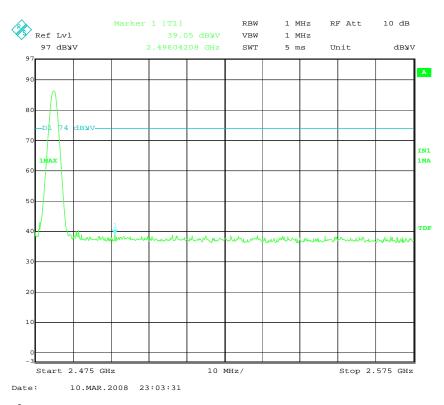


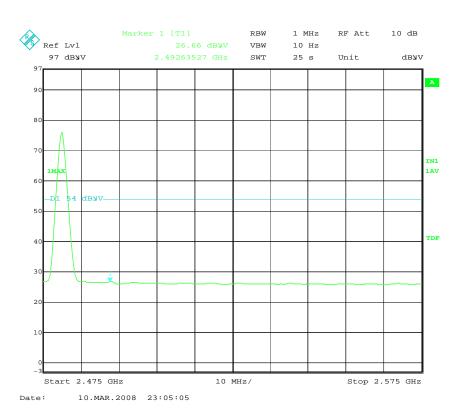
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(High- CH) Polarity: Horizontal

Detector mode: Peak





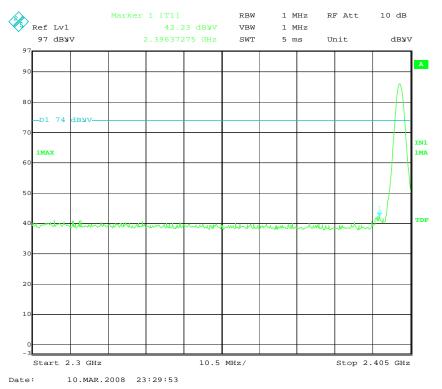
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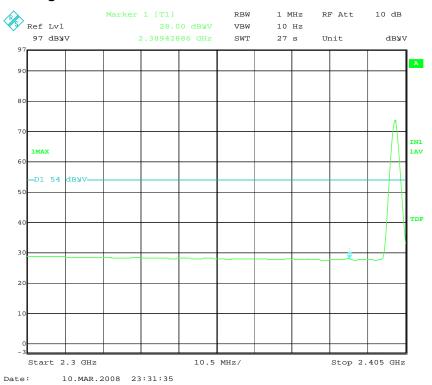


Test Plots (8DPSK)

(Low- CH) Polarity: Vertical

Detector mode: Peak



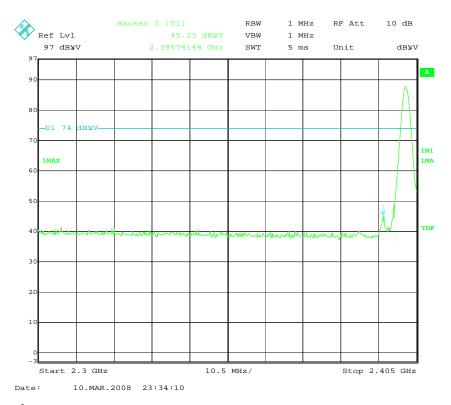


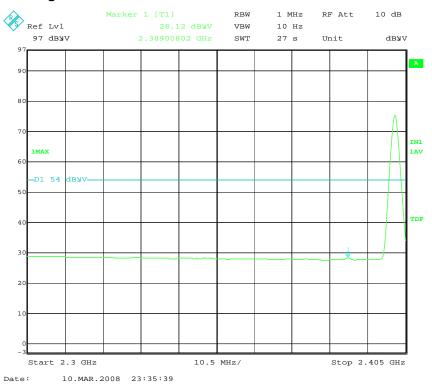
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(Low- CH) Polarity: Horizontal

Detector mode: Peak





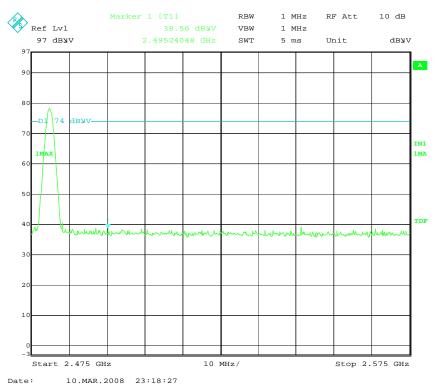
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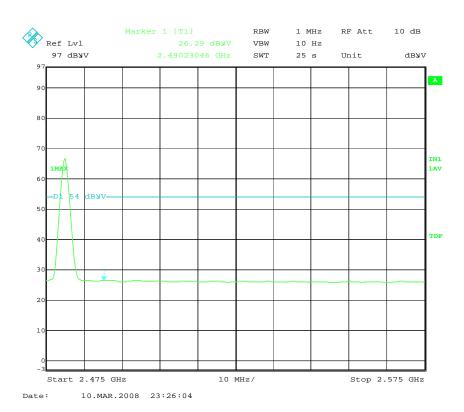


Test Plots, (High- CH)

Polarity: Vertical

Detector mode: Peak



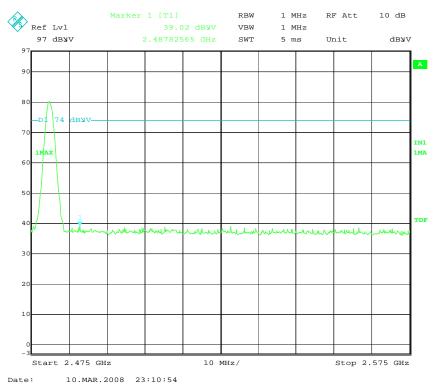


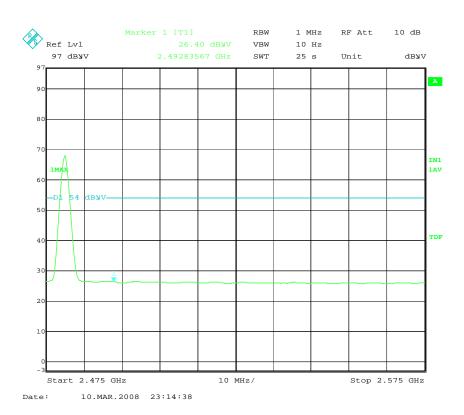
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(High- CH) Polarity: Horizontal

Detector mode: Peak





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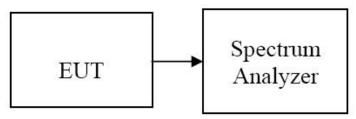


7.3 FREQUENCY SEPARATION

LIMIT

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Test Configuration



TEST PROCEDURE

The spectrum analyzer is set to:

- 1. Span = 3 MHz
- 2. RBW = 30 kHz
- 3. VBW = 100 kHz
- 4. Sweep = auto

The trace was allowed to stabilize. The marker-delta function was used to determine the separation between the peaks of the adjacent channels.

TEST RESULTS

No non-compliance noted

Test Data

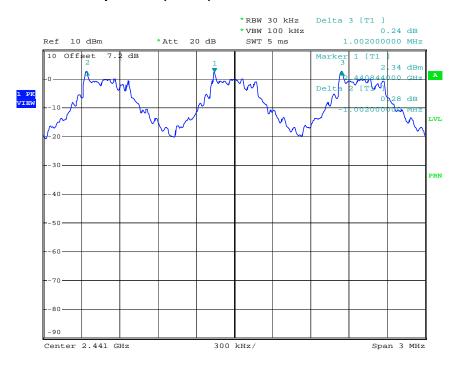
Channel Separation (KHz)		20dB Bandwidth (KHz)			Limit	Result
GFSK	8DPSK	Channel	GFSK	8DPSK	(KHz)	, toodii
1002	1002	Low CH	774	1188	>25	Pass
		Middle CH	768	1188		
		High CH	762	1188		

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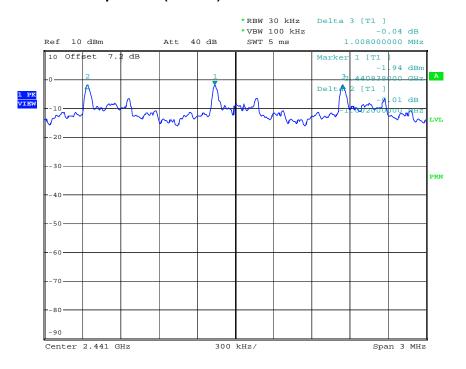
Test Plot

Measurement of Channel Separation(GFSK)



Date: 3.MAR.2008 14:11:28

Measurement of Channel Separation(8DPSK)



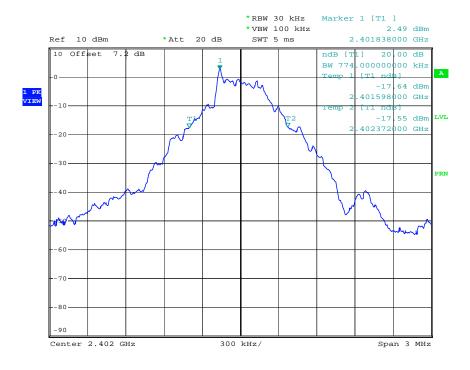
Date: 3.MAR.2008 13:03:17

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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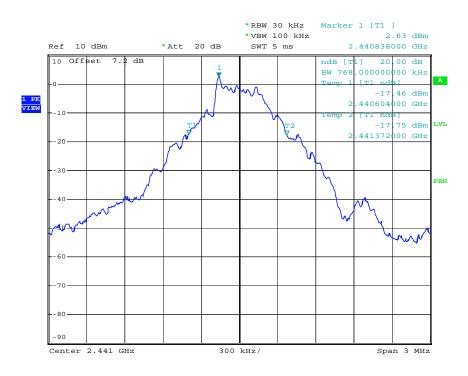
Test Plot (GFSK) 20 dB bandwidth

(Low CH)



Date: 3.MAR.2008 13:30:54

(Mid CH)

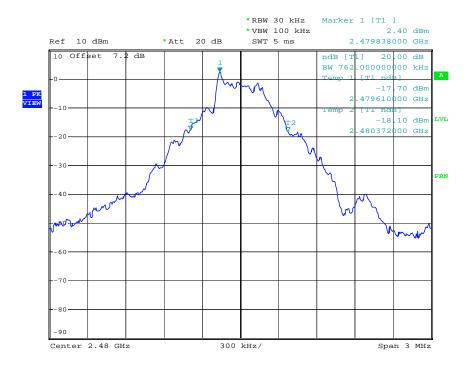


Date: 3.MAR.2008 13:31:38

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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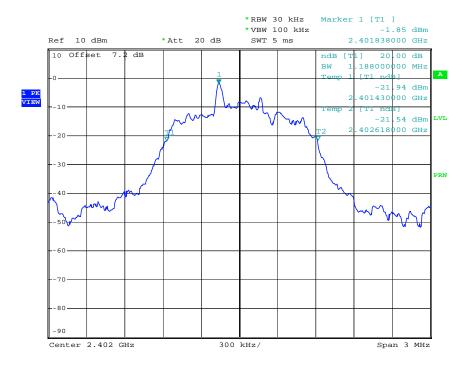


(High CH)



Date: 3.MAR.2008 13:32:15

Test Plot (8DPSK) 20 dB bandwidth (Low CH)

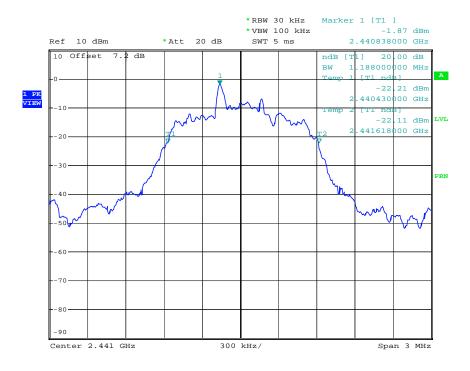


Date: 3.MAR.2008 13:34:51

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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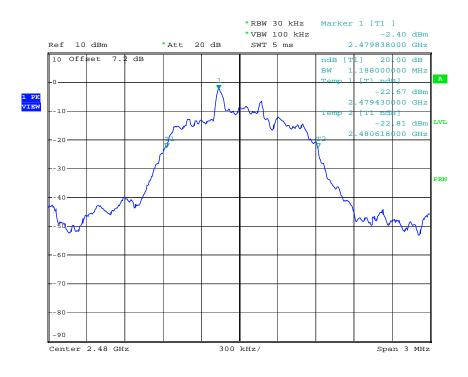


(Mid CH)



Date: 3.MAR.2008 13:34:02

(High CH)



Date: 3.MAR.2008 13:33:12

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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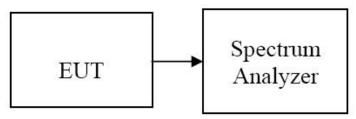


7.4 NUMBER OF HOPPING FREQUENCY

LIMIT

According to §15.247(a)(1)(ii), Frequency hopping systems operating in the 2400 MHz ~ 2483.5 MHz bands shall use at least 15 hopping frequencies.

Test Configuration



TEST PROCEDURE

The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer was set to :

- 1. Span = the frequency band of operation (Start = 2400 MHz, Stop = 2483.5 MHz)
- 2. RBW = 300 kHz
- 3. VBW = 300 kHz
- 4. Sweep = auto

The trace was allowed to stabilize.

TEST RESULTS

No non-compliance noted

Test Data

Result (No. of CH)	Limit (No. of CH)	Result	
79	>75	Pass	

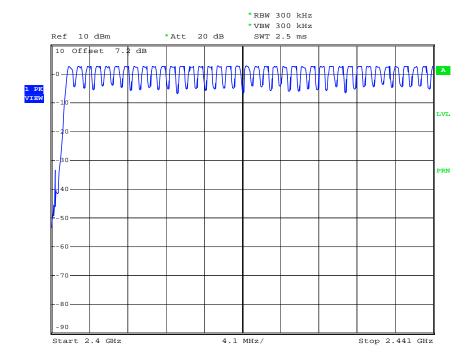
HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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Test Plot

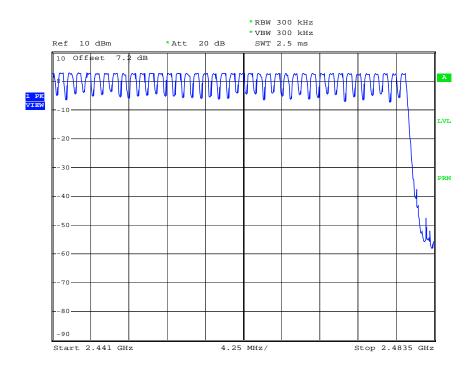
Number of Channels (GFSK)

2.4 GHz - 2.441 GHz



Date: 3.MAR.2008 13:07:36

2.441 GHz - 2.4835 GHz



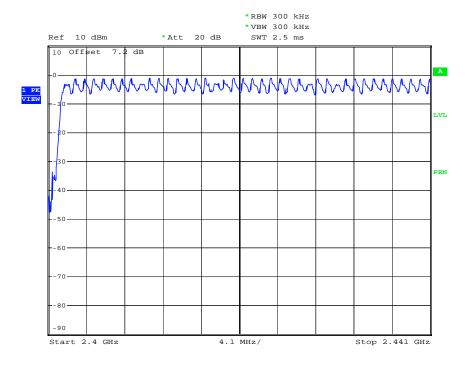
Date: 3.MAR.2008 13:29:45

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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Number of Channels (8DPSK)

2.4 GHz - 2.441 GHz



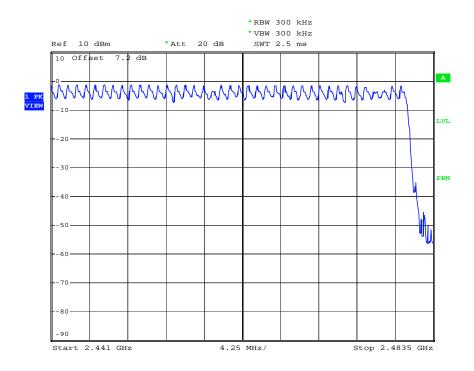
2.441 GHz – 2.4835 GHz

Date:

Date:

3.MAR.2008 13:10:55

3.MAR.2008 13:15:27



HCT PT.15.247
TEST REPORT

Test Report No.
HCT-R08-022

H

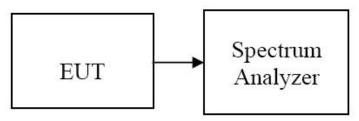


7.5 TIME OF OCCUPANCY (DWELL TIME)

LIMIT

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400 MHz ~ 2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

Test Configuration



TEST PROCEDURE

EUT was set to transmit the longest packet type (DH5 and 3-DH5)

- 1. Span = zero span
- 2. RBW = 1 MHz
- 3. VBW = 1 MHz
- 4. Sweep = as necessary to capture the entire dwell time per channel

The marker-delta function was used to determine the dwell time.

TEST RESULTS

See the table.

Example) DH 5(The longest packet type)

CH Low: $2.940^* (1600/6)/79 * 31.6 = 313.6 (ms)$ CH Mid: $2.940^* (1600/6)/79 * 31.6 = 313.6 (ms)$ CH High: $2.940^* (1600/6)/79 * 31.6 = 313.6 (ms)$

Channel	Pulse Time (ms)		Total of Dwell (ms)		Period Time	Limit	Result
	GFSK	8DPSK	GFSK	8DPSK	(s)	(ms)	
Low	2.940	2.940	313.6	313.6	31.6		PASS
Mid	2.940	2.540	313.6	270.9	31.6	400	PASS
High	2.940	2.540	313.6	270.9	31.6		PASS

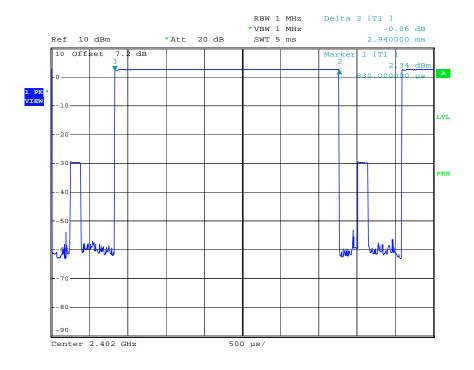
HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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Test Plots (GFSK)

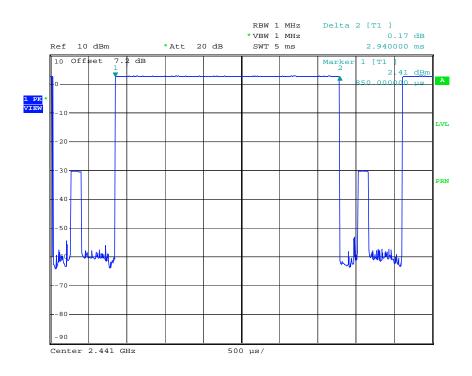
DH 5

(Low CH)



Date: 3.MAR.2008 14:40:22

(Mid CH)

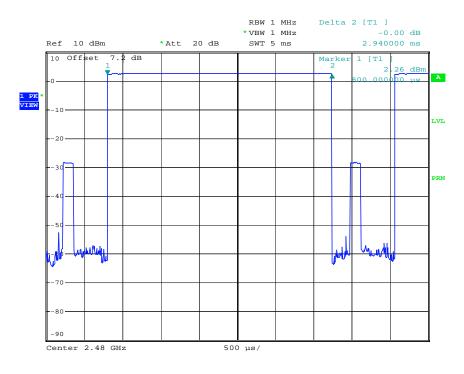


Date: 3.MAR.2008 14:41:04

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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(CH High)

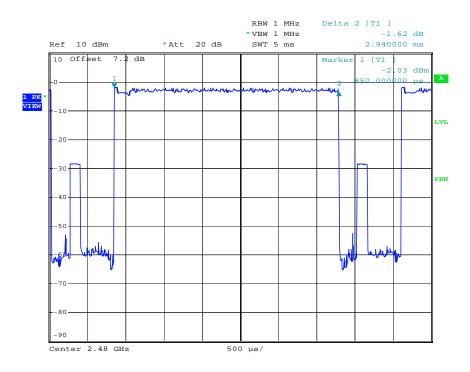


Date: 3.MAR.2008 14:09:14

Test Plots (8DPSK)

3-DH 5

(Low CH)

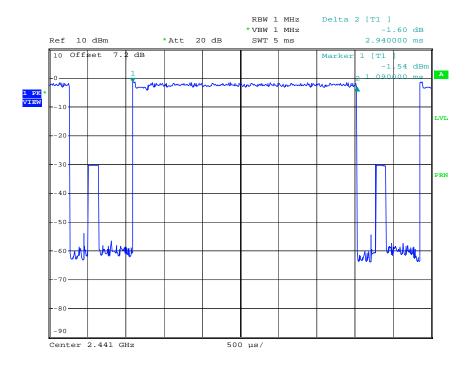


Date: 3.MAR.2008 13:47:02

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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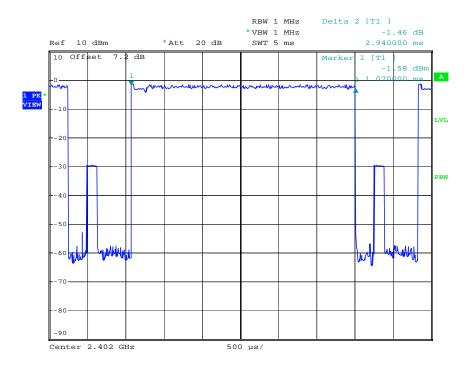


(MidCH)



Date: 3.MAR.2008 14:07:28

(CH High)



Date: 3.MAR.2008 14:08:14

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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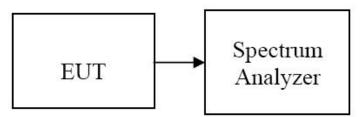
7.6 SPURIOUS EMISSIONS

7.6.1 Conducted Spurious Measurement

LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

A peak detector Mode was chosen to conduct the measurement.

Measurements are made over the 30 MHz to 26 GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

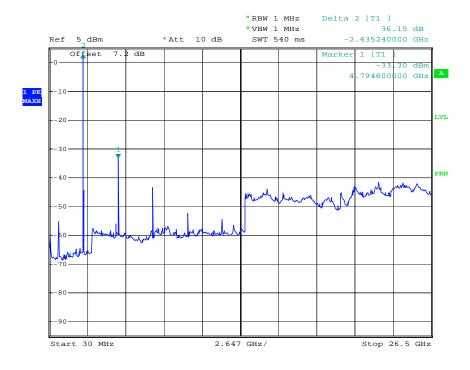
No non-compliance noted

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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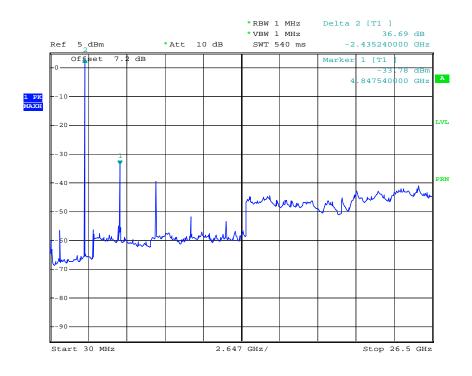
Test Plots (GFSK)

(Low CH)



Date: 3.MAR.2008 14:16:47

(Mid CH)

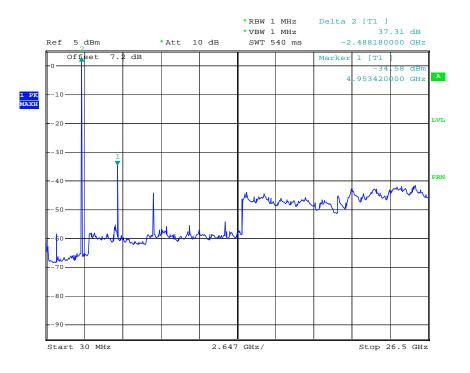


Date: 3.MAR.2008 14:16:10

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R08-022	Test Dates: Mar. 10, 2008	EUT Type: PCS GSM/EDGE Phone with Bluetooth	FCC ID: BEJKT610	Page 3 7 of 53



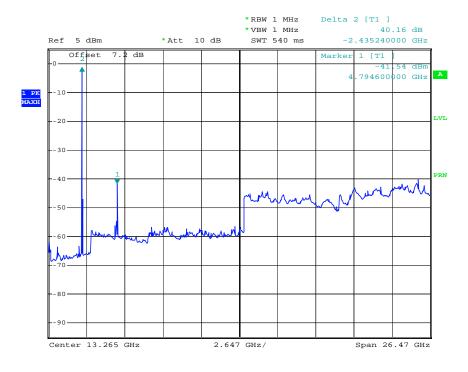
(High CH)



Date: 3.MAR.2008 14:15:17

Test Plots (8DPSK)

(Low CH)

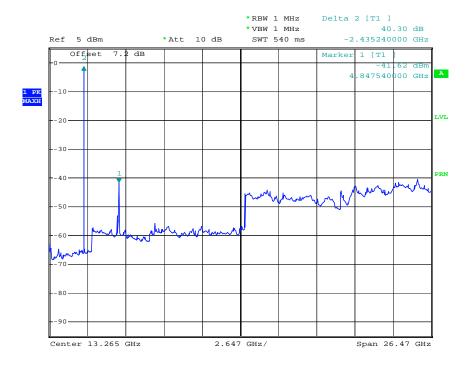


Date: 3.MAR.2008 14:37:37

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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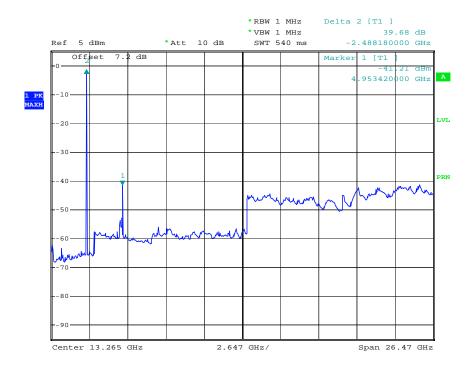
(Mid CH)



(High CH)

Date:

3.MAR.2008 14:19:51



Date: 3.MAR.2008 14:22:16

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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7.6.2 Radiated Spurious Emissions

LIMIT

1. 20dBc in any 100kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed

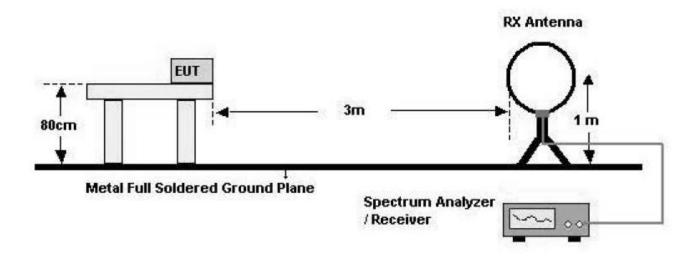
Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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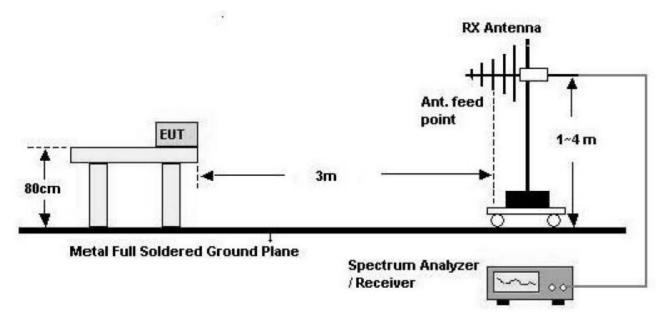


Test Configuration

Below 30 MHz



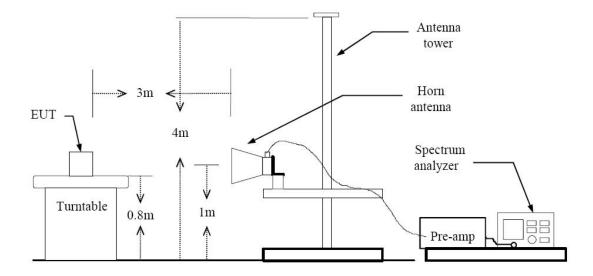
30 MHz - 1 GHz



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Above 1 GHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

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TEST RESULTS

9 kHz - 30MHz

Operation Mode: Normal Link (Standard)

- 1. Measuring frequencies from 9 kHz to the 30MHz.
- 2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- 3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 4. Limit line = specific Limits (dBuV) + Distance extrapolation factor

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TEST RESULTS

Below 1 GHz

Operation Mode: Normal Link

Frequency	Reading	Ant. Factor	Cable Loss	ANT POL	Total	Limit	Margin
MHz	dBuV	dB	dB	(H/V)	dBuV/m	dBuV/m	dB
288	20.10	12.30	4.10	Н	36.50	46	9.5
308	25.80	12.80	4.20	Н	42.80	46	3.2
312	21.10	13.00	4.30	Н	38.40	46	7.6
360	17.60	14.10	4.50	Н	36.20	46	9.8
372	14.90	14.40	4.60	Н	33.90	46	12.1

- 1. Measuring frequencies from 30 MHz to the 1 GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Quasi peak detector mode.
- 3. Worst case was recorded.

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Above 1 GHz

Operation Mode: CH Low (GFSK)

Frequency	Level	AN. CL.	ANT. POL	Total	Limit	Margin	
[MHz]	[dBm]	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4804	-105.22	58.68	Н	56.90	74	17.10	PK
4804	-108.37	44.60	Н	45.97	54	8.03	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
- a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
- b. AV Setting 1 GH z- 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

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Operation Mode: CH Mid (GFSK)

Frequency	Level	AN. CL.	ANT. POL	Total	Limit	Margin	
[MHz]	[dBm]	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4882	-99.33	61.96	Н	54.29	74	19.71	PK
4882	-103.98	45.67	Н	42.65	54	11.35	AV
7323	-123.06	40.28	Н	56.34	74	17.66	PK
7323	-110.76	40.28	Н	44.04	54	9.96	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GH z- 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

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Operation Mode: CH High (GFSK)

Frequency	Level	AN. CL.	ANT. POL	Total	Limit	Margin	
[MHz]	[dBm]	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4960	-94.69	63.12	Н	50.81	74	23.19	PK
4960	-99.70	45.83	Н	38.53	54	15.47	AV
7440	-123.56	40.49	Н	57.05	74	16.95	PK
7440	-111.18	40.49	Н	44.67	54	9.33	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MH.
 - b. AV Setting 1 GH z- 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

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7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Evenuency Benne (MUT)	Limits (dBμV)				
Frequency Range (MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
- 2. The EUT is connected via LISN to a test power supply.
- 3. The measurement results are obtained as described below:
- 4. Detectors Quasi Peak and Average Detector.

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Test Data

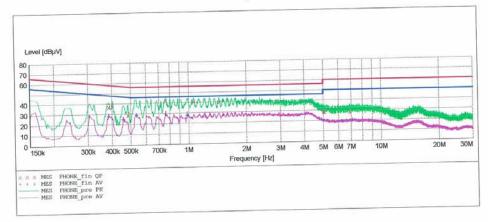
Conducted emissions (Line 1)

HCT

EMC TEST LAB.

KT610 Manufacturer: LG Electronics Inc.
Operating Condition: Bluetooth Mode
Test Site: SHIELD ROOM
Operator: YH.LEE
Test Specification: CUSPD 20 2022 EUT: Test Specification: CISPR 22 CLASS B Comment:

SCAN TABLE: "CISPR 22 Voltage"
Short Description:
Start Stop Step Detector Meas.
Frequency Frequency Width Time
150.1 kHz 500.0 kHz 2.5 kHz MaxPeak 10.0 ms Transducer IF Bandw. 10.0 ms 9 kHz None Average 10.0 ms 9 kHz 500.0 kHz 5.0 MHz 4.0 kHz MaxPeak Average MaxPeak None 10.0 ms 9 kHz 5.0 MHz 30.0 MHz 4.0 kHz Average



MEASUREMENT RESULT: "PHONE_fin QP"

ncy	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
100	36.90	10.0	58	21.2		
			58	20.6		
			56	27.5		
	77.7		56	13.6		-
			56	15.1		
	100 miles (100 miles)		56	16.0		
		10,000,000,000,000	60	31.4		
			60	31.4		
	27.90	10.9	60	32.1		-
	6:46 ncy MHz 100 600 100 000 000 000 000 6000	MHz dBµV 100 36.90 600 37.20 100 28.70 000 42.40 000 40.90 000 40.00 000 28.60	ncy Level dBμV Transd dB 100 36.90 10.0 600 37.20 10.0 100 28.70 10.1 000 42.40 10.1 000 40.90 10.2 000 40.00 10.2 000 28.60 10.6 000 28.60 10.6	ncy Level dBμV Transd dB dBμV Limit dB dBμV 100 36.90 10.0 58 600 37.20 10.0 58 100 28.70 10.1 56 000 42.40 10.1 56 000 40.90 10.2 56 000 40.00 10.2 56 000 28.60 10.6 60 000 28.60 10.6 60 000 28.60 10.6 60	ncy MHz Level dBμV Transd dB Limit dBμV Margin dB 100 36.90 10.0 58 21.2 600 37.20 10.0 58 20.6 100 28.70 10.1 56 27.5 000 42.40 10.1 56 13.6 000 40.90 10.2 56 15.1 000 40.00 10.2 56 16.0 000 28.60 10.6 60 31.4 000 28.60 10.6 60 31.4 200 28.60 10.6 60 31.4	ncy MHz Level dBμV Transd dB dBμV Limit dB dBμV Margin dB Line dB dBμV 100 36.90 10.0 58 21.2 600 37.20 10.0 58 20.6 100 28.70 10.1 56 27.5 000 42.40 10.1 56 13.6 000 40.90 10.2 56 15.1 000 40.00 10.2 56 16.0 000 28.60 10.6 60 31.4 000 28.60 10.6 60 31.4

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HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No. HCT-R08-022	Test Dates: Mar. 10, 2008	EUT Type: PCS GSM/EDGE Phone with Bluetooth	FCC ID: BEJKT610	Page 4 9 of 53



MEASUREMENT RESULT: "PHONE_fin AV"

3/4/2008 6:46	PM			BEST OF THE STREET	on-menor soon	22
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.305100	28.70	10.0	50	21.4		
0.385100	27.90	10.0	48	20.3		
0.457600	24.80	10.1	47	21.9		
0.536000	28.40	10.1	46	17.6		
0.760000	28.90	10.1	46	17.1		
0.984000	27.80	10.1	46	18.2		
5.000000	20.30	10.6	46	25.7		
6.260000	19.20	10.8	50	30.8		
7.092000	19.80	10.9	50	30.2		

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HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT			
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Conducted emissions (Line 2)

HCT

EMC TEST LAB.

KT610 EUT: EUT:

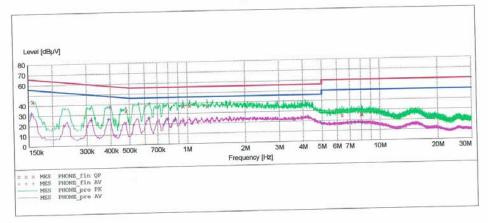
Manufacturer:

Operating Condition:

Bluetooth Mode
SHIELD ROOM
Operator:

YH. LEE Test Specification: CISPR 22 CLASS B
Comment: N

SCAN TABLE: "CISPR 22 Voltage"
Short Description: CISPR 22 Voltage
Start Stop Step Detector Meas
Frequency Frequency Width Time
150.1 kHz 500.0 kHz 2.5 kHz MaxPeak Average Transducer IF Detector Meas. Time Bandw.
MaxPeak 10.0 ms 9 kHz None Average 10.0 ms 9 kHz None 500.0 kHz 5.0 MHz 4.0 kHz MaxPeak Average MaxPeak 10.0 ms 9 kHz None 5.0 MHz 30.0 MHz 4.0 kHz Average



MEASUREMENT RESULT: "PHONE_fin QP"

3/4/2008	6:401	PM		Carterior Table	200000000000000000000000000000000000000	W 25070	PE
Freque	ncy MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.157	600	44.10	10.0	66	21.5		
0.397		38.20	10.0	58	19.7		
0.480		33.60	10.1	56	22.8		
0.480		37.20	10.1	56	18.8		
		37.90	10.1	56	18.1		
1.032		36.70	10.2	56	19.3		
1.272		24.90	10.8	60	35.1	-	
6.368		25.80	11.0	60	34.2		
8.020 8.104		25.70	11.0	60	34.3		

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HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No. HCT-R08-022	Test Dates: Mar. 10, 2008	EUT Type: PCS GSM/EDGE Phone with Bluetooth	FCC ID: BEJKT610	Page 5 1 of 53



MEASUREMENT RESULT: "PHONE_fin AV"

3/4/2008 6 Frequence		Transd dB	Limit dBuV	Margin dB	Line	PE
141	12 GDAV	-	100			
0.15510	00 31.80	10.0	56	23.9		
0.31760		10.0	50	24.9		
0.39010		10.0	48	22.5		
0.63200	5.6	10.1	46	20.2		
0.7920		10.1	46	21.0		
0.8680		10.1	46	21.5		
5.0000		10.6	46	28.7		
7.4120		10.9	50	32.5		
8.1120	~~	11.0	50	32.6		

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8. LIST OF TEST EQUIPMENT

Manufacturer	Model / Equipment	Calibration Date	Cal Interval	Calibration Due	Serial No.
Rohde & Schwarz	ESCI/ EMI Test Receiver	08/24/ 2007	Annual	08/24/ 2008	100033
Rohde & Schwarz	ESH2-Z5/ LISN	04/20/2007	Annual	04/20/2008	861741/013
Rohde & Schwarz	ESH3-Z6/ LISN	04/11/2007	Annual	03/16/2008	100329
Schwarzbeck	VULB 9160/ TRILOG Antenna	04/20/2007	Annual	04/20/2008	9160-3150
HD	MA240/ Antenna Position Tower	N/A	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	N/A	12
Rohde & Schwarz	ESH3-Z2/ PULSE LIMITER	03/16/2007	Annual	10/03/2008	375.8810.352
MITEQ	AMF-60-0010 1800-35-20P	01/15/2008	Annual	01/15/2009	1200937
MITEQ	AMF-6D-01180-35-20P	02/24/2007	Annual	04/25/2008	990893
Schwarzbeck	BBHA 9120D/ Horn Antenna	03/30/2007	Annual	03/30/2008	147
Schwarzbeck	BBHA9170/ SHF-EHF Horn Antenna	03/20/2007	Annual	03/20/2008	BBHA9170342
EMCO	6502/Loop Antenna	12/26/2007	biennial	12/26/2009	9009-2536
Rohde & Schwarz	FSP30/Spectrum Analyzer	06/28/2007	Annual	06/28/2008	839117/011
Agilent	E4416A /Power Meter	01/22/2008	Annual	01/22/2009	GB41291412
Wainwright Instrument	WHF3.3/18G-10EF / High Pass Filter	06/28/2007	Annual	06/28/2008	1
Hewlett Packard	11636B/Power Divider	01/14/2008	Annual	01/14/2009	11377
DIGITAL	EP-3010 /DC POWER SUPPLY	01/10/2008	Annual	01/10/2009	3110117

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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