
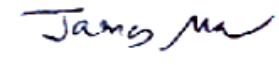


FCC PART 15.247
EMI MEASUREMENT AND TEST REPORT
For
LG Innotek Co., Ltd.

Hanyang Univ. 1271, Sa-dong, Sangrok-gu,
Ansan-si, Gyeonggi-do 426-791, Korea

FCC ID: VQTRBDS-C001X
Model: RBDS-C001X

This Report Concerns: <input checked="" type="checkbox"/> Original Report (Rev.1)		Product Type: LGIT Daughter Board Module	
Test Engineer(s):	Xiao Ming Hu 		
Report Number:	R0709266-247a		
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Reviewed By:	Daniel Deng, RF Engineering Lead 		
Prepared By: (I3)	Bay Area Compliance Laboratories Corp. 1274 Anvilwood Ave. Sunnyvale, CA 94089, USA Tel: (408) 732-9162 Fax: (408) 732-9164		

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1 GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

The *LG Innotek Co., Ltd.* product, *model: RBDS-C001X*, or the “EUT” as referred to in this report, is a Bluetooth module. *RBDS-C001X* is a Class 2 (4dBm Max) LGIT Daughter Board Module for Note PC applications.

1.2 Mechanical Description of EUT

The *LG Innotek Co., Ltd.* product, *model: RBDS-C001X*, measures approximately 31mmL x 15mmW x 1mmH, and weighs approximately 0.05g.

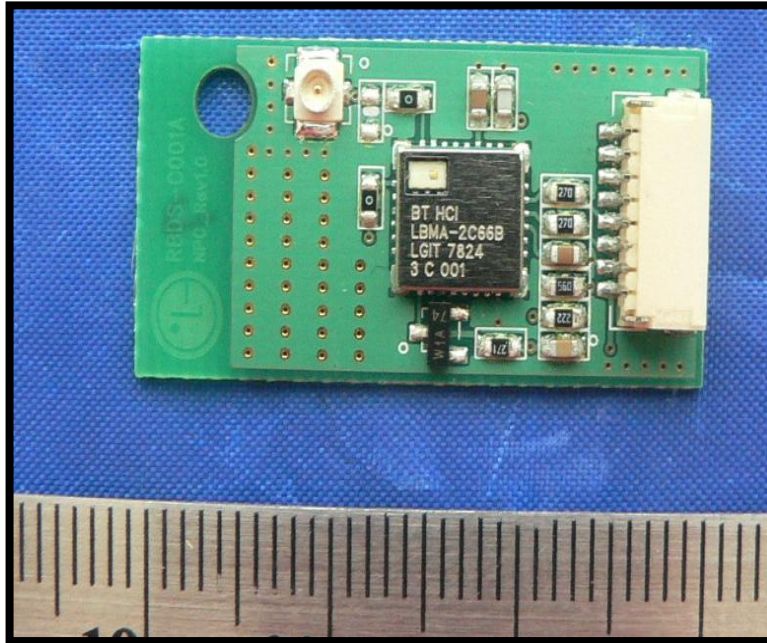
**The test data gathered are from production sample, serial number: B1332, provided by the manufacturer.*

1.3 Antenna Description

The antenna used is film antenna. It is a coaxial sleeve design with U.FL connector.

Item Number	Model/Type	
Antenna	Model number:	HFT40-LG10
	Manufacturer:	Hitachi Cable
	Frequency Range:	2400-2500 MHz
	Connector Type/ Maximum Gain	U.FL/ 0.75 dBi with cable loss and 2.81dBi without cable loss
	Antenna Type:	Film antenna
	Measurement:	Length: 31 mmW x 30.5 mmL;

1.4 EUT Photograph



Please refer to Exhibit C for more EUT photographs.

1.5 Objective

This type approval report is prepared on behalf of *LG Innotek Co., Ltd.* in accordance with Part 2, Subpart J, Part 15, Subparts A, B, and C of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC 15.247 Standard's limits rules for Antenna Requirements, Conducted Emissions, Radiated Emissions, Spurious Emissions at Antenna Port, Hopping Channel Separation, Hopping Channel Bandwidth, Number of Hopping Frequencies Used, Dwell Time of Each Frequency, Maximum Peak Output Power, 100 kHz Bandwidth of Frequency Band Edge and RF Exposure.

1.6 Related Submittal(s)/Grant(s)

N/A

1.7 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI C63.4-2003.

1.8 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the values ranging from ± 2.0 dB for Conducted Emissions tests and ± 4.0 dB for Radiated Emissions tests are the most accurate estimates pertaining to uncertainty of EMC measurements at BACL Corp.

Detailed instrumentation measurement uncertainties can be found in BACL Corp. report QAP-018.

1.9 Test Facility

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11, 1997 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the test methods and procedures set forth in ANSI C63.4-2003 & TIA/EIA-603.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: R-2463 and C-2698. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is a National Institute of Standards and Technology (NIST) accredited laboratory under the National Voluntary Laboratory Accredited Program (Lab Code 200167-0). The current scope of accreditations can be found at <http://ts.nist.gov/ts/htdocs/210/214/scopes/2001670.htm>.

2 SYSTEM TEST CONFIGURATION

2.1 Justification

The EUT was configured for testing according to ANSI C63.4-2003.

The EUT was tested in the normal (native) operating mode to represent *worst*-case results during the final qualification test.

2.2 EUT Exercise Software

The software is provided by customer. The EUT exercise program used during radiated testing was designed to exercise the system components.

2.3 Special Accessories

As shown in following test block diagram.

2.4 Equipment Modifications

No modifications were made to the EUT.

2.5 Local Support Equipment

Manufacturer	Description	Model	Serial Number
Toshiba	Laptop	Satellite R15-S829	Y5040228H
LG	IT Development Kit	LBTS-XX97A Rev 1.3	0629

3 SUMMARY OF TEST RESULTS FOR FCC PART 15

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§ 15.207 (a)	Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(c)	Radiated Emissions	Compliant
§15.247(d)	Spurious Emissions at Antenna Terminals	Compliant
§15.247 (a) (1)	Hopping Channel Separation	Compliant
§15.247 (a) (1)	Channel Bandwidth	Compliant
§15.247 (a) (1) (i)	Number of Hopping Frequencies Used	Compliant
§15.247 (a) (1) (i)	Dwell Time of Each Frequency	Compliant
§15.247 (b)(2)	Maximum Peak Output Power	Compliant
§ 15.247 (d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(i) §2.1091	RF Exposure	Compliant

4 §15.203 - ANTENNA REQUIREMENT

4.1 Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

And according to § 15.247 (b) (4), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

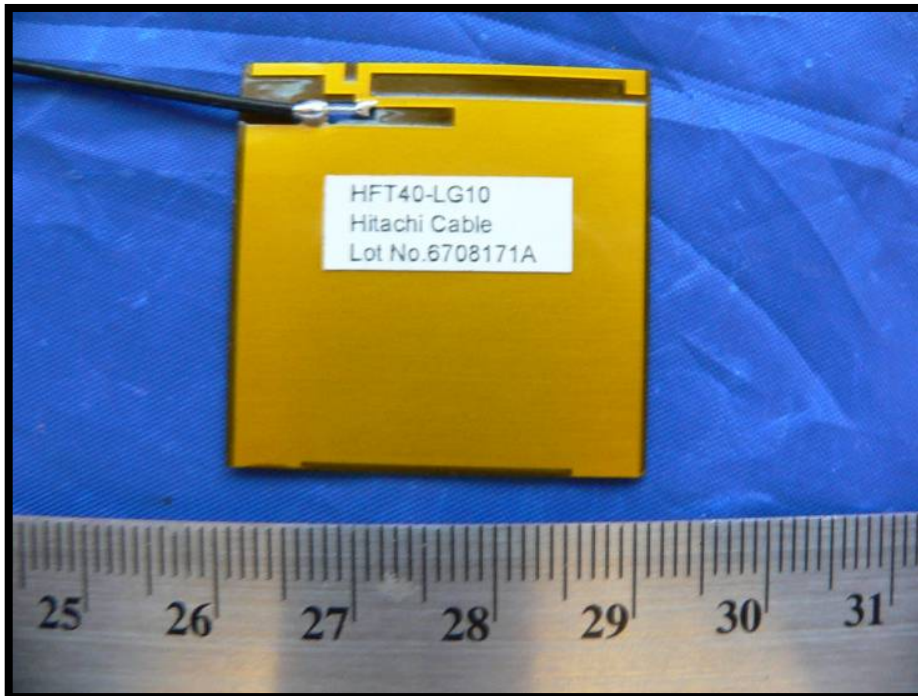
4.2 Result

The antenna, model: HFT40-LG10 for this device is a coaxial with U.FL connector and a maximum gain of 3.75 dBi without cable loss.

Compliant

N/A

Please refer to the following antenna photo for details.



Antenna photo

5 §15.207 – CONDUCTED EMISSIONS

5.1 Applicable Standard

According to FCC §15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that 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 the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

Frequency Range (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

**Decreases with the logarithm of the frequency*

5.2 Test Setup

The measurement was performed at shield room, using the setup per ANSI C63.4 – 2003 measurement procedure. The specification used was FCC Class B limits.

External I/O cables were draped along the edge of the test table and bundle when necessary.

The EUT was connected with LISN-1.

5.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration date
Rohde & Schwarz	EMI Test Receiver	ESCI 1166.595 0K03	100044	2007-02-19
Solar Electronics	Artificial-Mains Network	9252-50-R-24- N	0511213	2007-07-31

*** Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

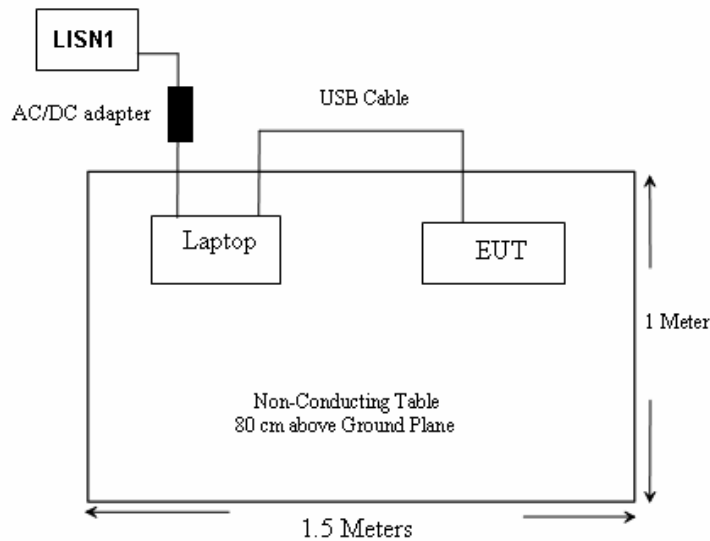
5.4 Test Procedure

During the conducted emissions test, the power cord of adaptor was connected to the mains outlet of the LISN-1.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the peak detection mode, quasi-peak and average. Quasi-Peak readings are distinguished with a “QP”. Average readings are distinguished with an “Ave”.

5.5 Test Setup Diagram



5.6 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	65 %
ATM Pressure:	102.0 kPa

The testing was performed by Xiao Ming Hu from 2007-10-03.

5.7 Summary of Test Results

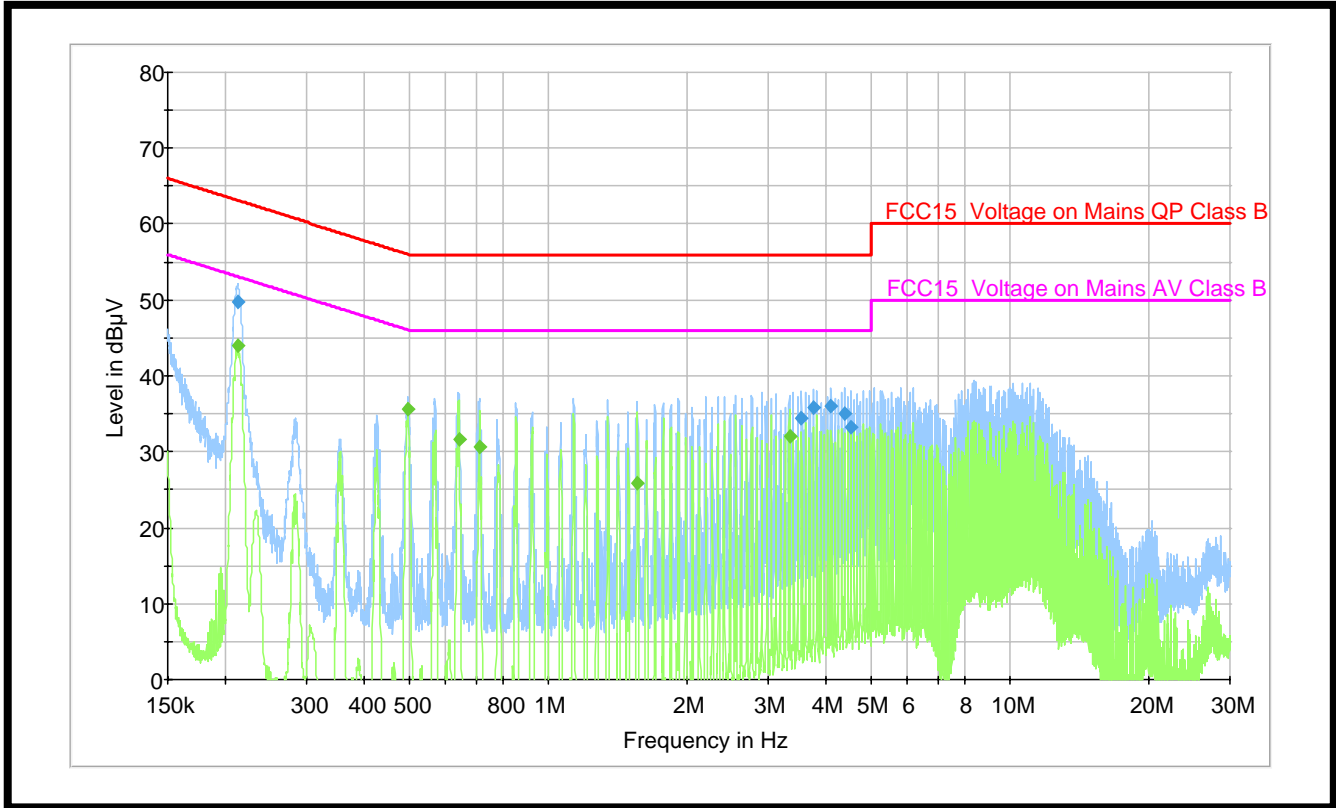
According to the recorded data in following table, the EUT complied with the FCC standard’s conducted emissions limits for Class B devices, with the *worst* margin reading of:

-9.1 dB at 0.212823 MHz in the Line Conductor Mode

Please refer to the following plots and tables for complete test results

5.8 Conducted Emissions Test plot & data

Line Conductor Mode



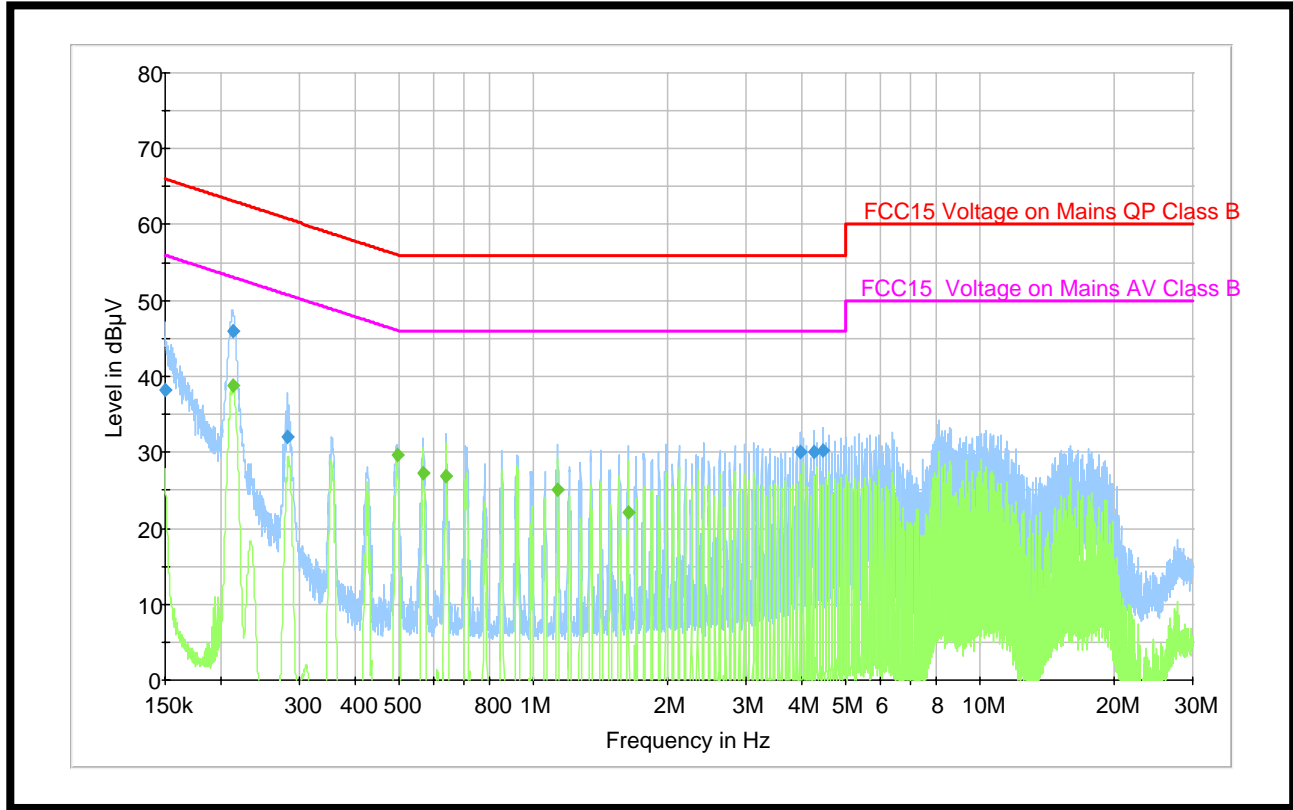
QP Measurements

Frequency (MHz)	Quasi-Peak (dBµV)	Conductor (L/N)	Limit (dBµV)	Margin (dB)
0.212610	49.8	L	63.1	-13.3
4.109187	35.9	L	56.0	-20.1
3.755683	35.8	L	56.0	-20.2
4.393788	35.1	L	56.0	-20.9
3.544153	34.4	L	56.0	-21.6
4.536590	33.2	L	56.0	-22.8

Average Measurements

Frequency (MHz)	Average (dBµV)	Line (L/N)	Limit (dBµV)	Margin (dB)
0.212823	44.0	L	53.1	-9.1
0.496229	35.6	L	46.1	-10.5
3.331192	31.9	L	46.0	-14.1
0.640283	31.7	L	46.0	-14.3
0.709002	30.7	L	46.0	-15.3
1.563158	25.9	L	46.0	-20.1

5.9 Neutral Line Conductor Mode



QP Measurements

Frequency (MHz)	Quasi-Peak (dBµV)	Conductor (L/N)	Limit (dBµV)	Margin (dB)
0.212186	46.0	N	63.1	-17.1
4.460158	30.2	N	56.0	-25.8
4.246982	30.1	N	56.0	-25.9
3.963958	30.0	N	56.0	-26.0
0.150000	38.2	N	66.0	-27.8
0.281272	32.1	N	60.8	-28.7

Average Measurements

Frequency (MHz)	Average (dBµV)	Line (L/N)	Limit (dBµV)	Margin (dB)
0.212398	38.8	N	53.1	-14.3
0.495733	29.7	N	46.1	-16.4
0.567347	27.2	N	46.0	-18.8
0.638366	26.8	N	46.0	-19.2
1.135267	25.2	N	46.0	-20.8
1.631805	22.1	N	46.0	-24.0

6 §15.205, §15.209(a) & §15.247(d) - RADIATED EMISSIONS

6.1 Applicable Standard: FCC §15.205 (a)

a) As Per 15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 – 0.110	16.42 – 16.423	960 – 1240	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	1300 – 1427	5.35 – 5.46
2.1735 – 2.1905	25.5 – 25.67	1435 – 1626.5	7.25 – 7.75
4.125 – 4.128	37.5 – 38.25	1645.5 – 1646.5	8.025 – 8.5
4.17725 – 4.17775	73 – 74.6	1660 – 1710	9.0 – 9.2
4.20725 – 4.20775	74.8 – 75.2	1718.8 – 1722.2	9.3 – 9.5
6.215 – 6.218	108 – 121.94	2200 – 2300	10.6 – 12.7
6.26775 – 6.26825	123 – 138	2310 – 2390	13.25 – 13.4
6.31175 – 6.31225	149.9 – 150.05	2483.5 – 2500	14.47 – 14.5
8.291 – 8.294	156.52475 – 156.52525	2690 – 2900	15.35 – 16.2
8.362 – 8.366	156.7 – 156.9	3260 – 3267	17.7 – 21.4
8.37625 – 8.38675	162.0125 – 167.17	3.332 – 3.339	22.01 – 23.12
8.41425 – 8.41475	167.72 – 173.2	3.3458 – 3.358	23.6 – 24.0
12.29 – 12.293	240 – 285	3.600 – 4.400	31.2 – 31.8
12.51975 – 12.52025	322 – 335.4		36.43 – 36.5
12.57675 – 12.57725	399.9 – 410		Above 38.6
13.36 – 13.41	608 – 614		

b) Except as provided in 15.205 paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

(c) Except as provided in paragraphs (d) and (e), regardless of the field strength limits specified elsewhere in this Subpart, the provisions of this Section apply to emissions from any intentional radiator.

Compliant

N/A

6.2 Applicable Standard: FCC §15.209 Radiated emission limits, general requirements.

a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (micro volts/m)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

b) In the emission table above, the tighter limit applies at the band edges.

Compliant **N/A**

(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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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 in §15.209(a) (see §15.205(c)).

6.3 Test Setup

The radiated emissions tests were performed in the shielded room, using the setup in accordance with ANSI C63.4-2003. The specification used was the FCC 15 Subpart C limits.

6.4 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date
Agilent	Analyzer, Spectrum	E4440A	MY44303352	2007-02-23
HP	Pre, Amplifier (1 ~ 26.5 GHz)	8449B	3147A00400	2007-04-26
A.R.A	Antenna, Horn, DRG	DRG-118/A	1132	2005-08-17*

* Two years calibration cycle.

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

6.5 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	65 %
ATM Pressure:	102.0 kPa

The testing was performed by Xiao Ming Hu from 2007-10-02

6.6 Test Procedure

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations.

All data were recorded in the peak detection mode. Quasi-peak readings was performed only when an emissions was found to be marginal (within -4 dB of specification limits), and are distinguished with a "QP" in the data table.

6.7 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emissions are 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corrected Amplitude} - \text{Limit}$$

6.8 Summary of Test Results

According to the test data, the EUT complied with the FCC Title 47, Part 15 Subpart C sections 205, 209 and 247 standards' limits, with the closest margins from the limit listed below:

-15.4 dB at 7206.0000 MHz in the Vertical polarization, Low Channel

-15.7 dB at 4882.0000 MHz in the Vertical polarization, Middle Channel

-15.0 dB at 4960.0000 MHz in the Vertical polarization, High Channel

6.9 Radiated Spurious Emissions Test Data, 1 GHz – 10 GHz:

Run#1 Radiated Harmonics and Spurious Emissions

Low Channel (2402 MHz)

Freq. (MHz)	Receiver Reading (dBµV)	Azimuth (Degrees)	Height (m)	Polarization (H / V)	Antenna Factor (dB/m)	Cable loss (dB)	Pre-Amp. Gain (dB)	Corrected Amp. (dBµV/m)	FCC 15.247/209		Comments
									Limit (dBµV/m)	Margin (dB)	
2402.00	80.8	238	1.0	V	28.7	1.5	35.8	75.2			Fund.
2402.00	74.9	144	1.1	H	28.7	1.5	35.8	69.3			Fund.
2402.00	47.9	238	1.0	V	28.7	1.5	35.8	42.3			Fund.
2402.00	46.3	144	1.1	H	28.7	1.5	35.8	40.7			Fund.
7206.00	32.4	19	1.6	H	36.7	4.2	34.7	38.6	54	-15.4	Ave
7206.00	32.0	330	1.6	V	36.7	4.2	34.7	38.2	54	-15.8	Ave
4804.00	58.2	147	1.0	V	32.5	1.9	34.8	57.8	74	-16.2	Peak
4804.00	36.9	147	1.0	V	32.5	1.9	34.8	36.5	54	-17.5	Ave
4804.00	35.9	343	1.5	H	32.5	1.9	34.8	35.5	54	-18.5	Ave
4804.00	54.4	343	1.5	H	32.5	1.9	34.8	54.0	74	-20.0	Peak
7206.00	45.9	19	1.6	H	36.7	4.2	34.7	52.1	74	-21.9	Peak
7206.00	45.4	330	1.6	V	36.7	4.2	34.7	51.6	74	-22.4	Peak

Middle Channel (2441 MHz)

Freq. (MHz)	Receiver Reading (dBµV)	Azimuth (Degrees)	Height (m)	Polarization (H / V)	Antenna Factor (dB/m)	Cable loss (dB)	Pre-Amp. Gain (dB)	Corrected Amp. (dBµV/m)	FCC 15.247/209		Comments
									Limit (dBµV/m)	Margin (dB)	
2441.00	80.6	252	1.0	V	28.7	1.5	35.8	75.0			Fund.
2441.00	79.3	185	1.0	H	28.7	1.5	35.8	73.7			Fund.
2441.00	55.6	252	1.0	V	28.7	1.5	35.8	50.0			Fund.
2441.00	47.6	185	1.0	H	28.7	1.5	35.8	42.0			Fund.
4882.00	58.7	148	1.0	V	32.5	1.9	34.8	58.3	74	-15.7	Peak
7323.00	31.6	360	1.6	H	36.7	4.2	34.7	37.8	54	-16.2	Ave
4882.00	37.6	148	1.0	V	32.5	1.9	34.8	37.2	54	-16.9	Ave
7323.00	30.6	39	1.4	V	36.7	4.2	34.7	36.8	54	-17.2	Ave
4882.00	35.6	334	1.0	H	32.5	1.9	34.8	35.2	54	-18.9	Ave
4882.00	53.1	334	1.0	H	32.5	1.9	34.8	52.7	74	-21.3	Peak
7323.00	45.2	360	1.6	H	36.7	4.2	34.7	51.4	74	-22.6	Peak
7323.00	43.9	39	1.4	V	36.7	4.2	34.7	50.1	74	-23.9	Peak

High Channel (2480 MHz)

Freq. (MHz)	Receiver Reading (dBµV)	Azimuth (Degrees)	Height (m)	Polarization (H / V)	Antenna Factor (dB/m)	Cable loss (dB)	Pre-Amp. Gain (dB)	Corrected Amp. (dBµV/m)	FCC 15.247/209		Comments
									Limit (dBµV/m)	Margin (dB)	
2480.00	79.8	256	1.0	V	28.7	1.5	35.8	74.2			Fund.
2480.00	76.3	184	1.0	H	28.7	1.5	35.8	70.7			Fund.
2480.00	58.4	256	1.0	V	28.7	1.5	35.8	52.8			Fund.
2480.00	48.8	184	1.0	H	28.7	1.5	35.8	43.2			Fund.
4960.00	59.4	143	1.8	V	32.5	1.9	34.8	59.0	74	-15.0	Peak
7440.00	32.5	13	1.6	H	36.7	4.2	34.7	38.7	54	-15.3	Ave
7440.00	31.7	55	1.5	V	36.7	4.2	34.7	37.9	54	-16.1	Ave
4960.00	37.6	143	1.8	V	32.5	1.9	34.8	37.2	54	-16.8	Ave
4960.00	57.5	37	1.5	H	32.5	1.9	34.8	57.1	74	-16.9	Peak
4960.00	36.8	37	1.5	H	32.5	1.9	34.8	36.4	54	-17.6	Ave
7440.00	46.6	13	1.6	H	36.7	4.2	34.7	52.8	74	-21.2	Peak
7440.00	45.1	55	1.5	V	36.7	4.2	34.7	51.3	74	-22.7	Peak

Note: Fund. - Fundamental

7 §15.247 (D) SPURIOUS EMISSIONS AT ANTENNA TERMINALS

7.1 Applicable Standard

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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 in §15.209(a) (see §15.205(c)).

7.2 Measurement Procedure

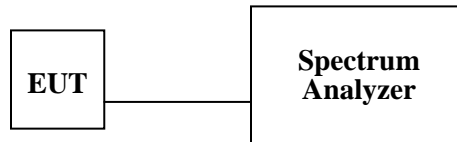
1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on a bench without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the SA on Max-Hold Mode, and then keep the EUT in transmitting mode. Record all the signals from each channel until each one has been recorded.
4. Set the SA on View mode and then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

7.3 Test Equipment

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	E4446A	US44300386	2007-04-26

* **Statement of Traceability:** BACL Corp. attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

7.4 Test Setup Diagram



7.5 Environmental Conditions

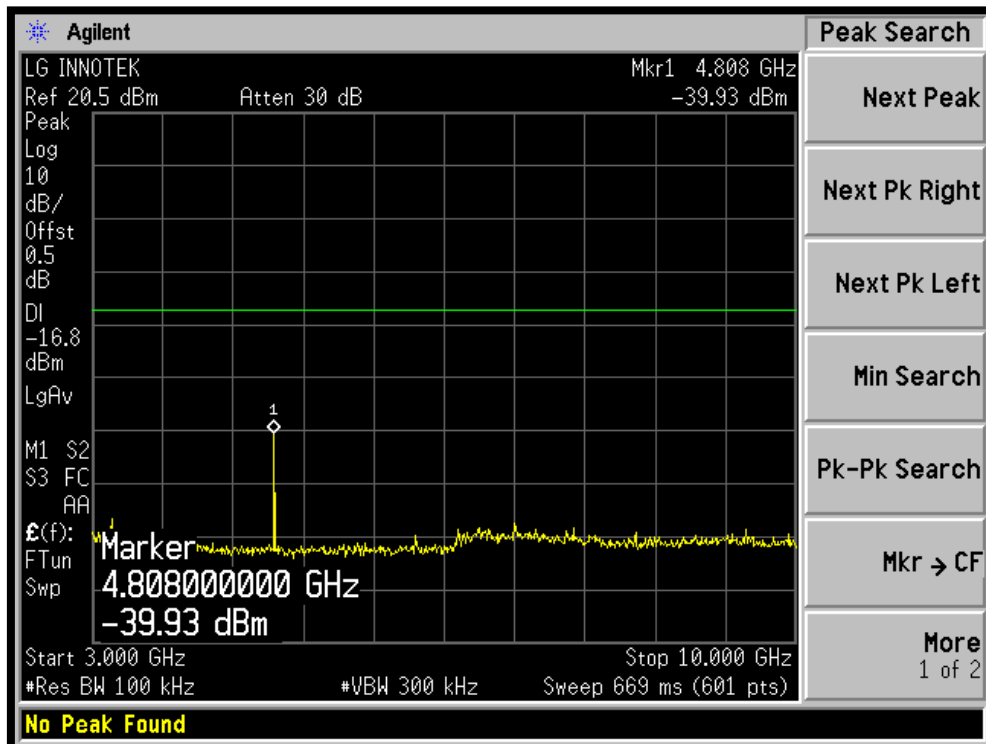
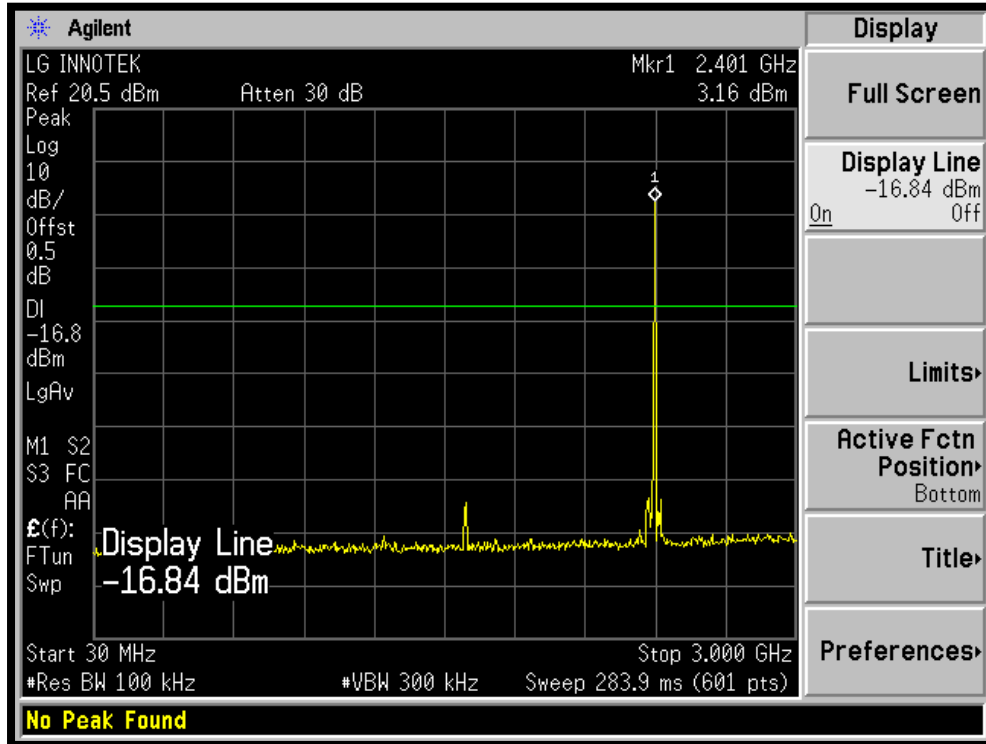
Temperature:	24 °C
Relative Humidity:	65 %
ATM Pressure:	102.0 kPa

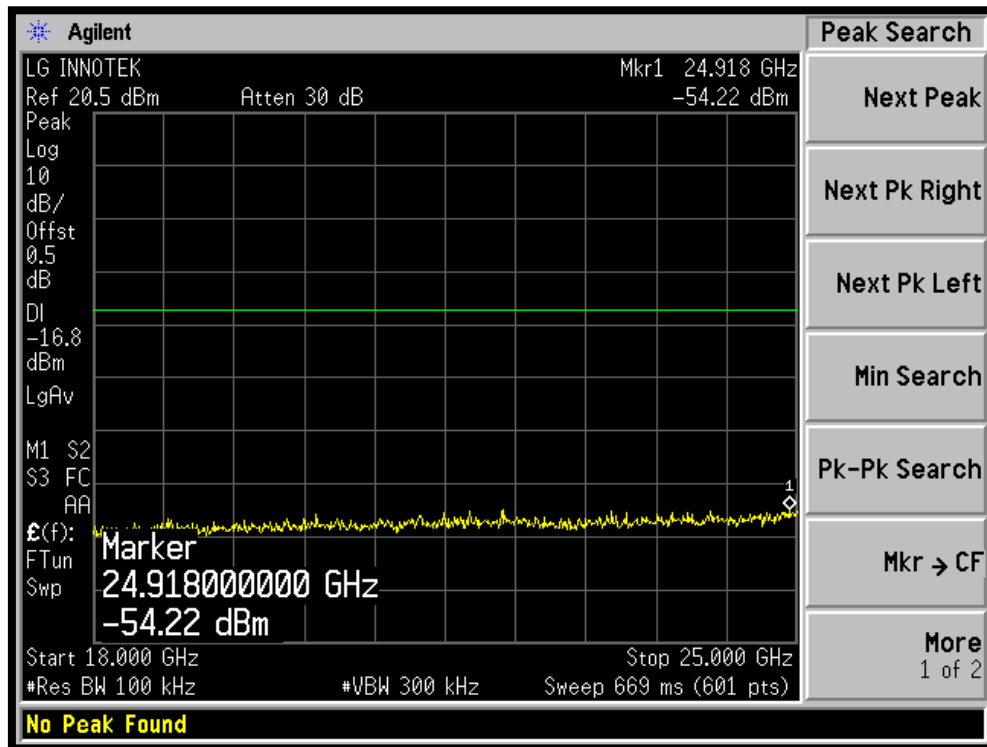
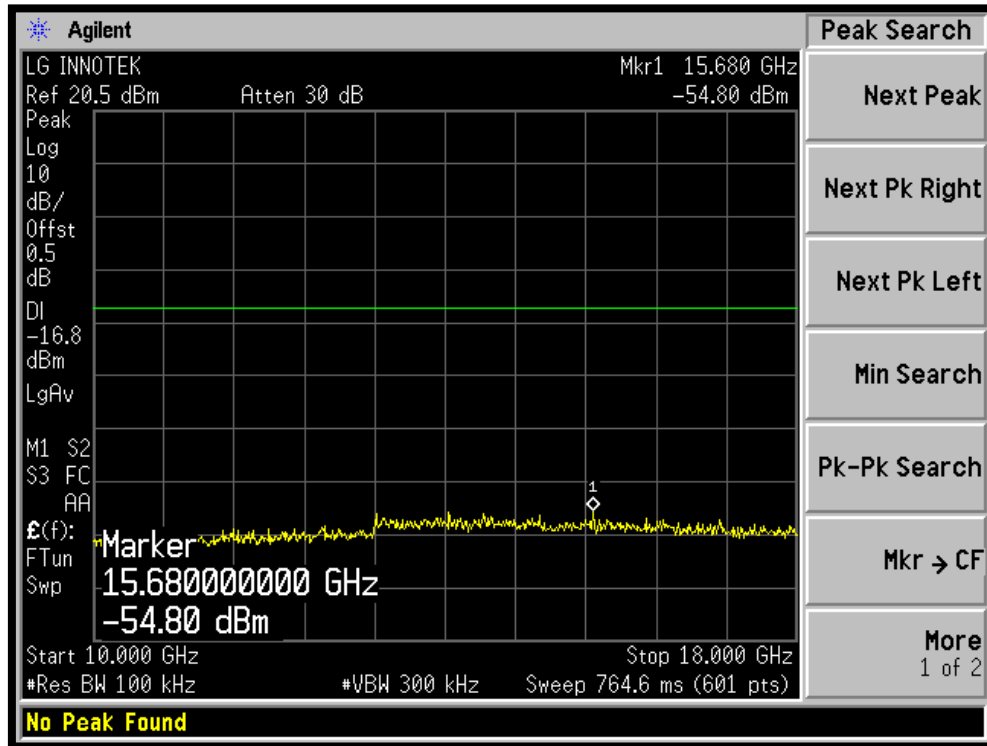
The testing was performed by Xiao Ming Hu from 2007-10-01

Please refer to the following plots.

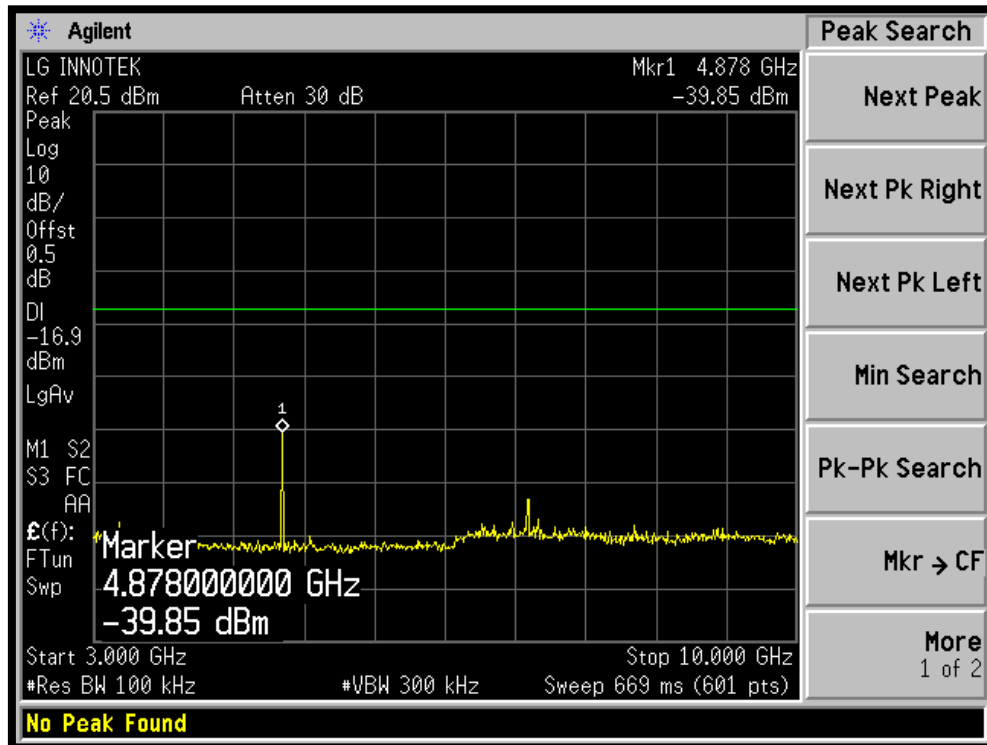
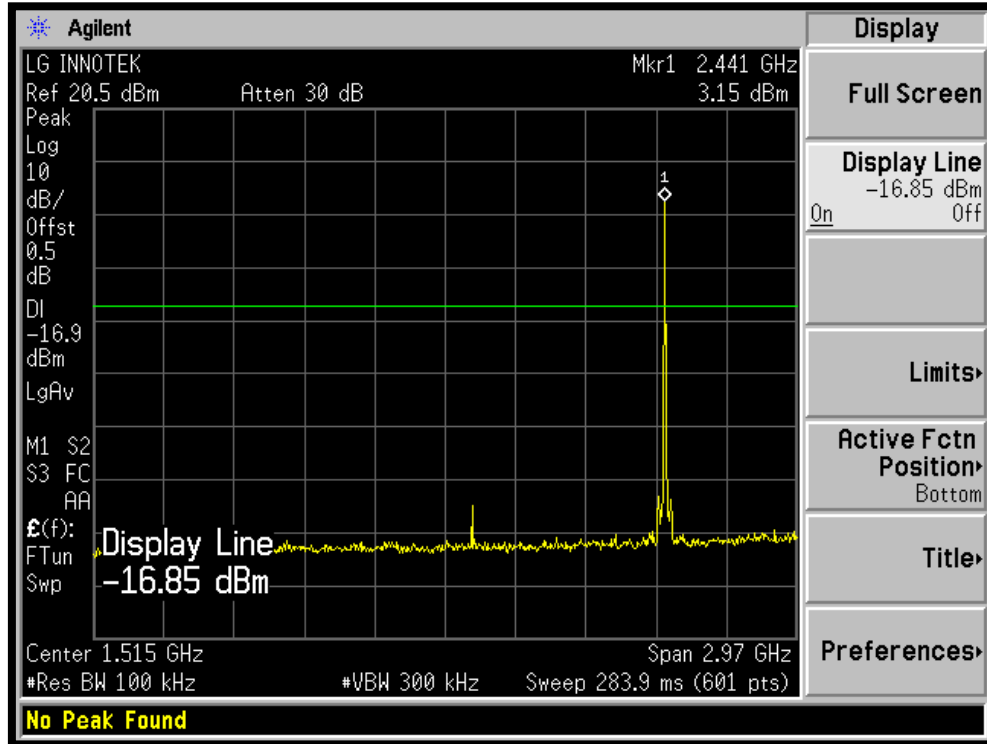
7.6 Measurement Results

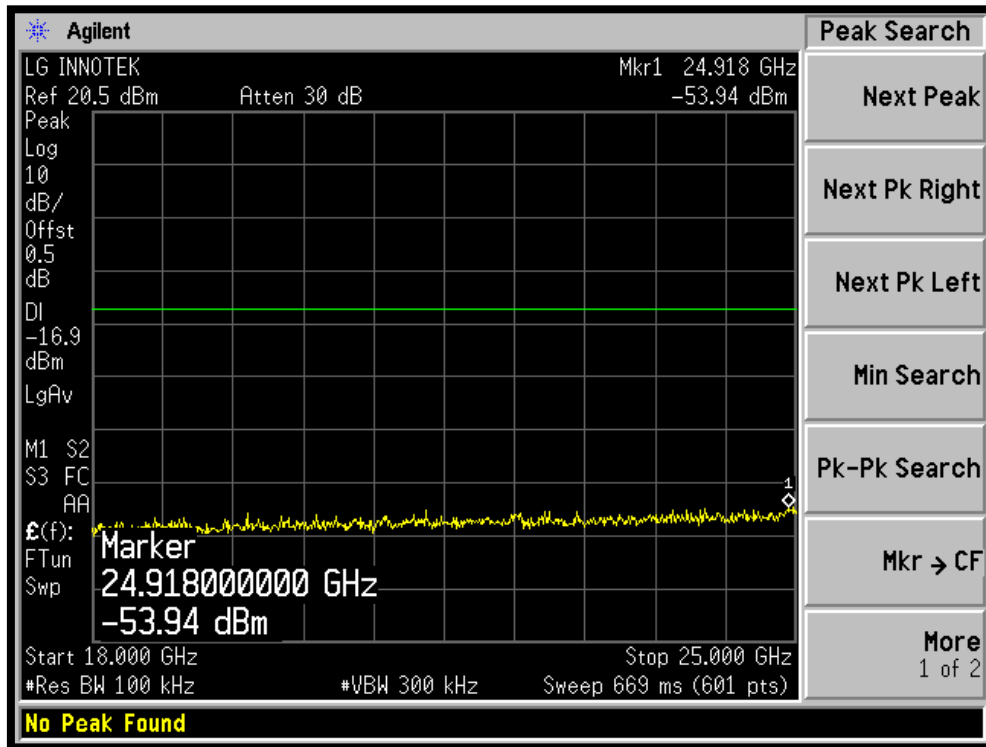
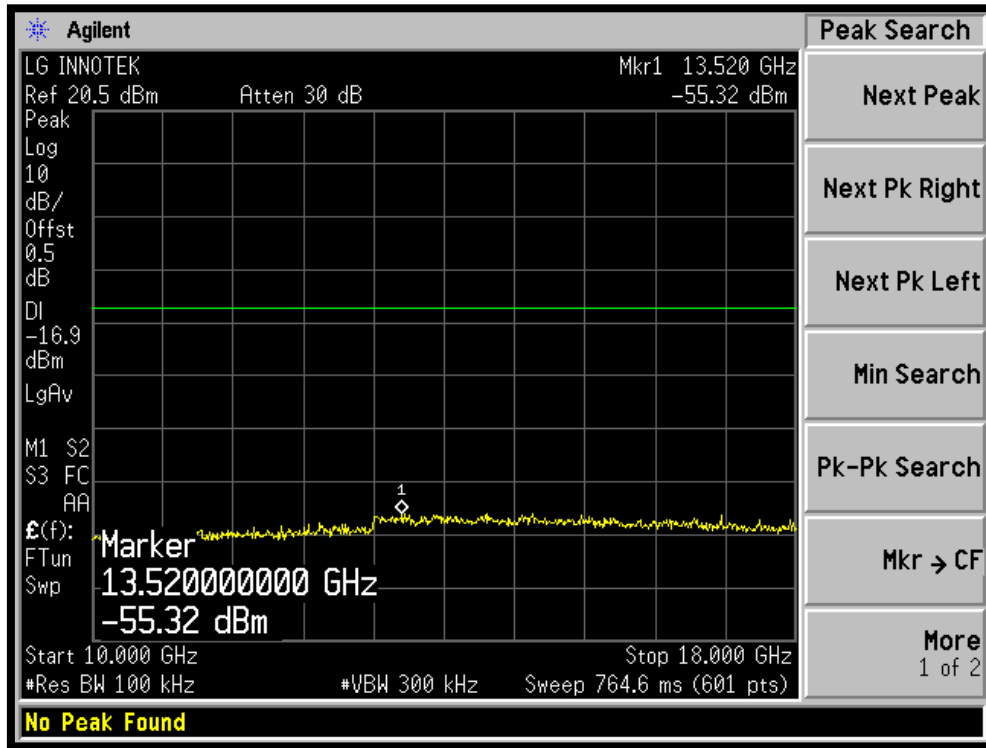
Low Channel



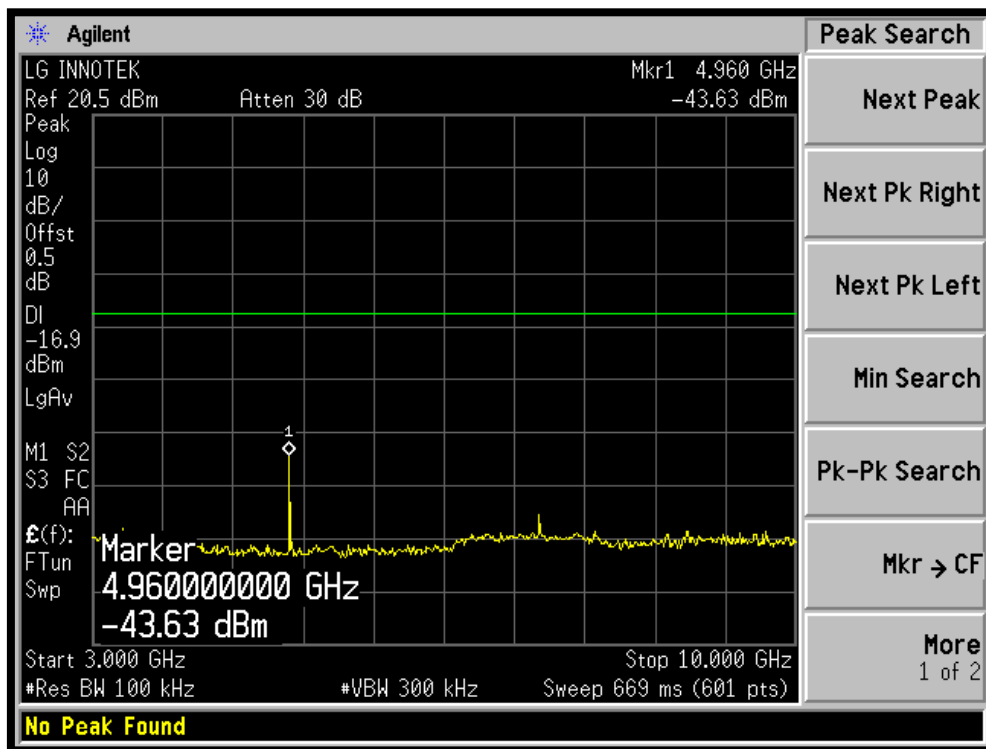
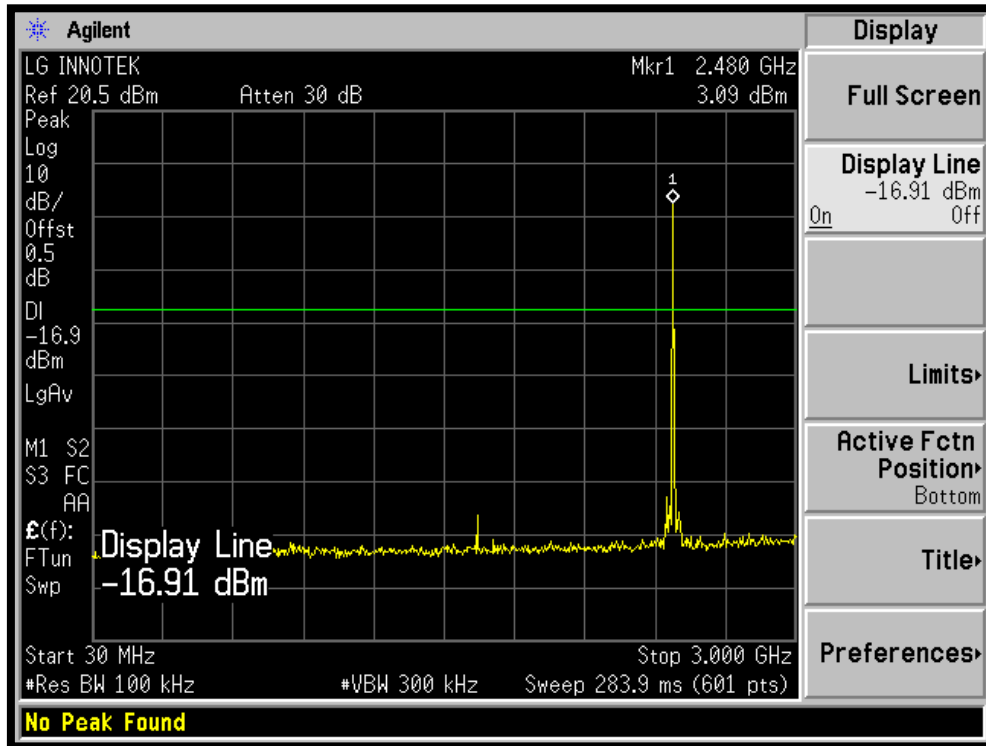


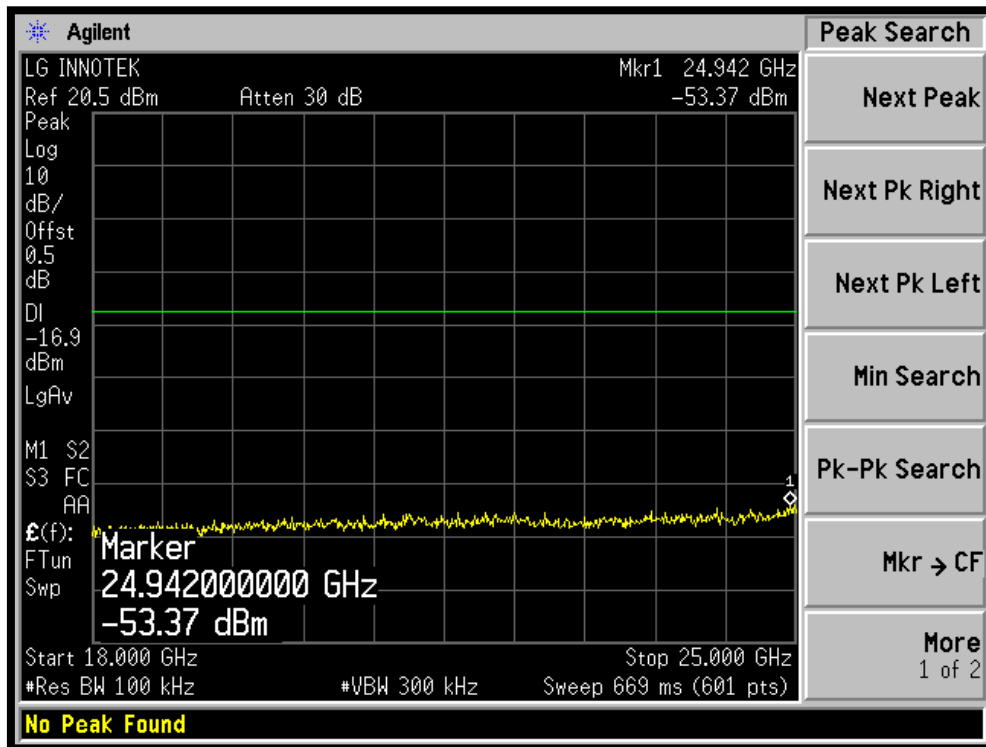
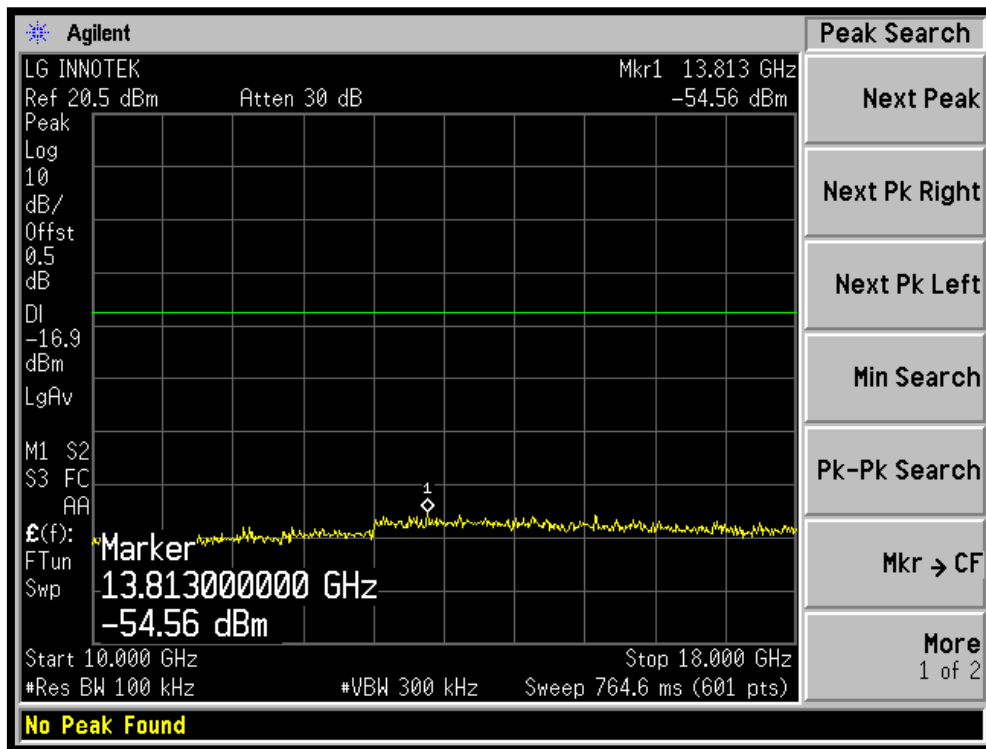
Middle Channel





High Channel





8 §15.247 (a) (1) - HOPPING CHANNEL SEPARATION

8.1 Applicable Standard

According to §15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

8.2 Measurement Procedure

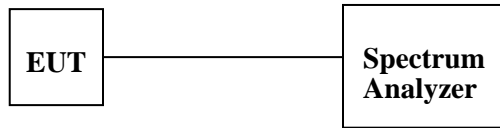
1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on a bench without connection to measurement instrument Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
3. By using the Max-Hold function record the separation of two adjacent channels.
4. Measure the frequency difference of these two adjacent channels by SA MARK function, and then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

8.3 Test Equipment

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	E4446A	US44300386	2007-04-26

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

8.4 Test Setup Diagram



8.5 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	65 %
ATM Pressure:	102.0 kPa

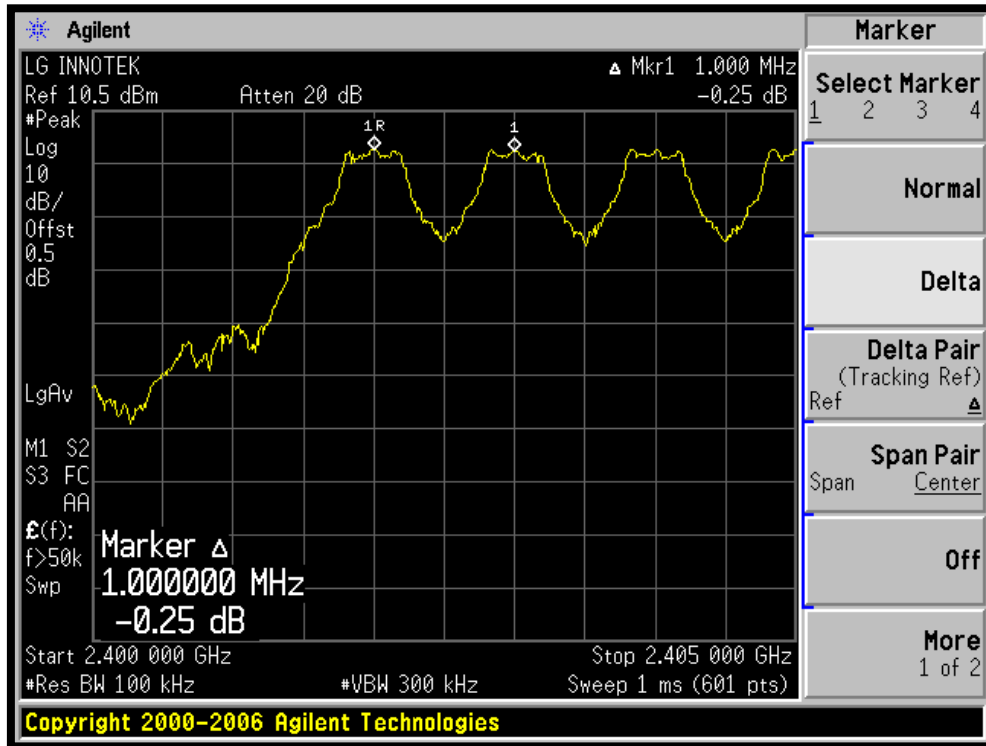
The testing was performed by Xiao Ming Hu from 2007-10-01.

8.6 Measurement Results

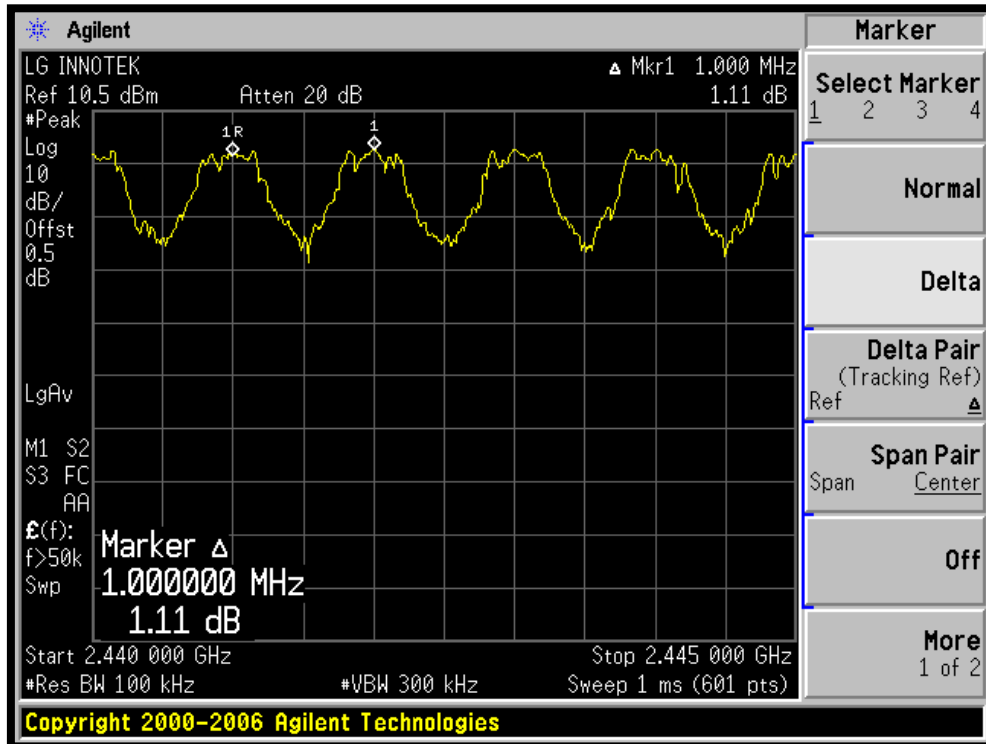
Channel	Frequency (MHz)	Channel Separation (kHz)	Limit > 20 dB BW >(kHz)
Low	2402	1000	924.380
Mid	2441	1000	925.601
High	2480	1000	926.719

Please refer to the following plots.

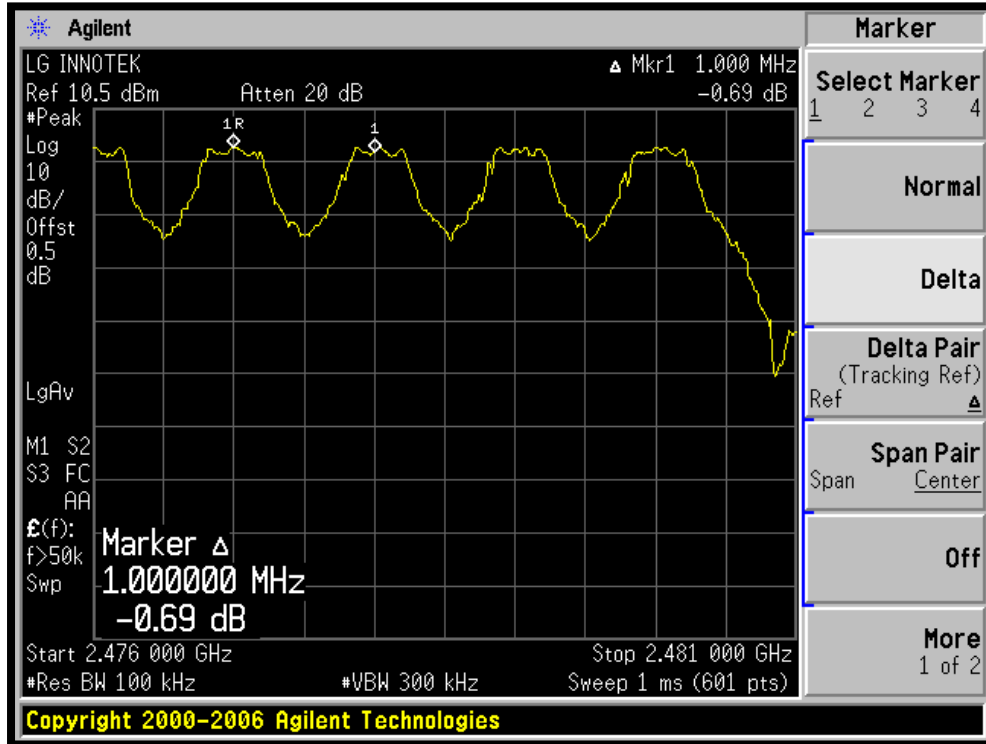
Low Channel



Middle Channel



High Channel



9 §15.247 (a) (1) – HOPPING CHANNEL BANDWIDTH

9.1 Standard Applicable

According to §15.247 (a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

9.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emissions bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

9.3 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	E4446A	US44300386	2007-04-26

* **Statement of Traceability:** **BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

9.4 Test Setup Diagram



9.5 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	65 %
ATM Pressure:	102.0 kPa

The testing was performed by Xiao Ming Hu from 2007-10-01.

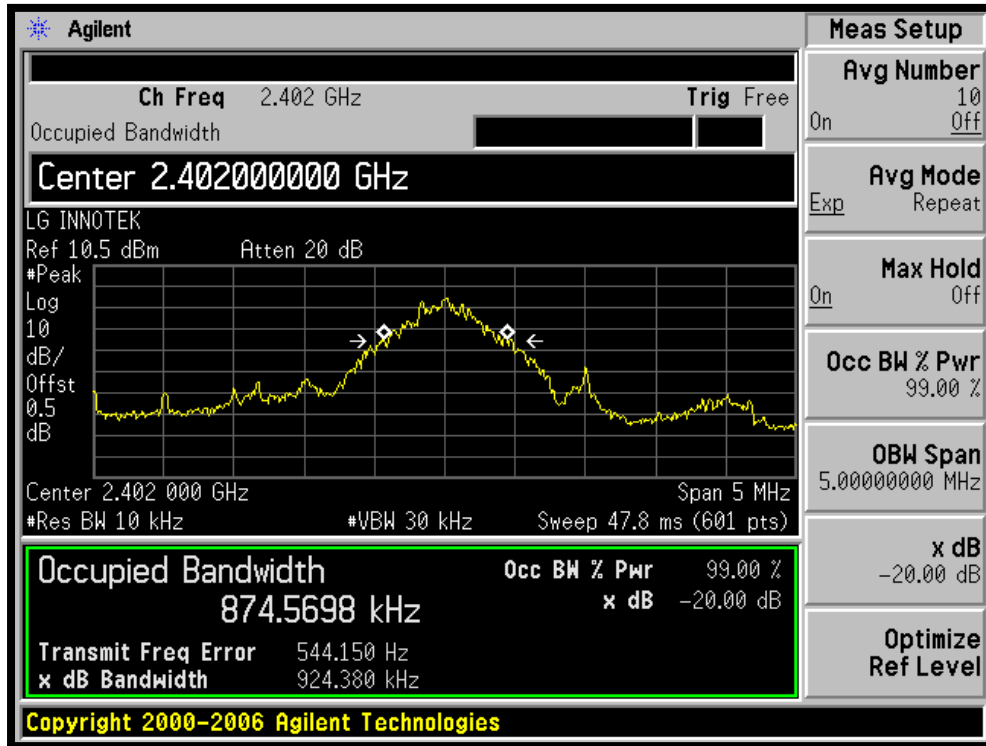
9.6 Measurement Results

Channel	Frequency (MHz)	20 dB Channel Bandwidth (kHz)
Low	2402	924.38
Mid	2441	925.60
High	2480	926.72

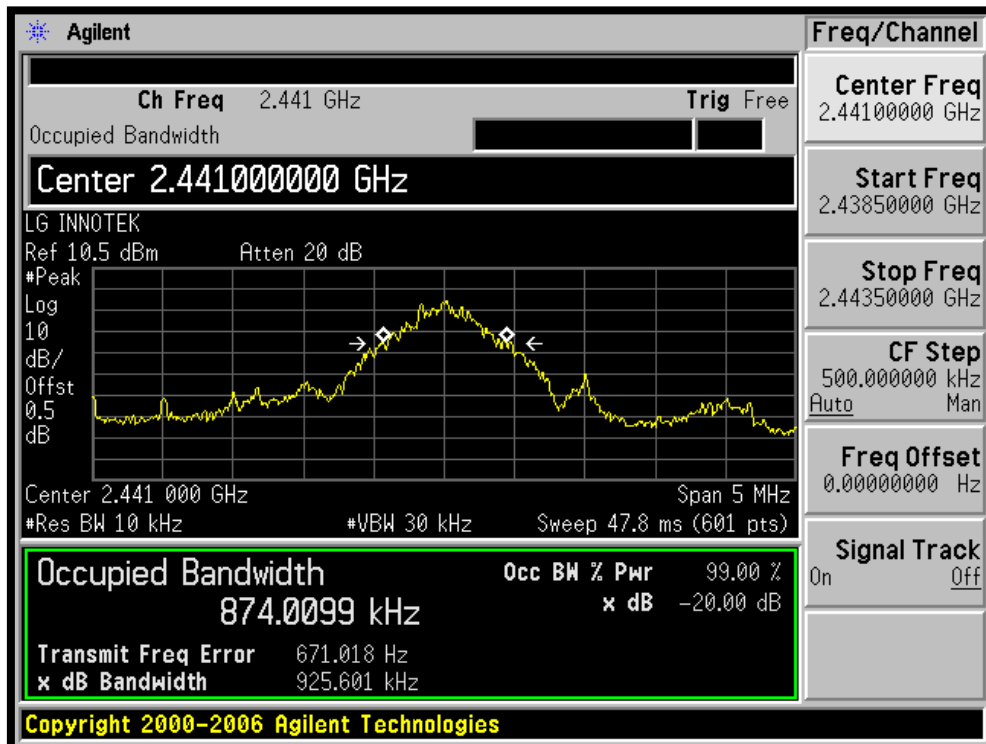
Please refer to the following plots.

9.7 Measurement Test Result

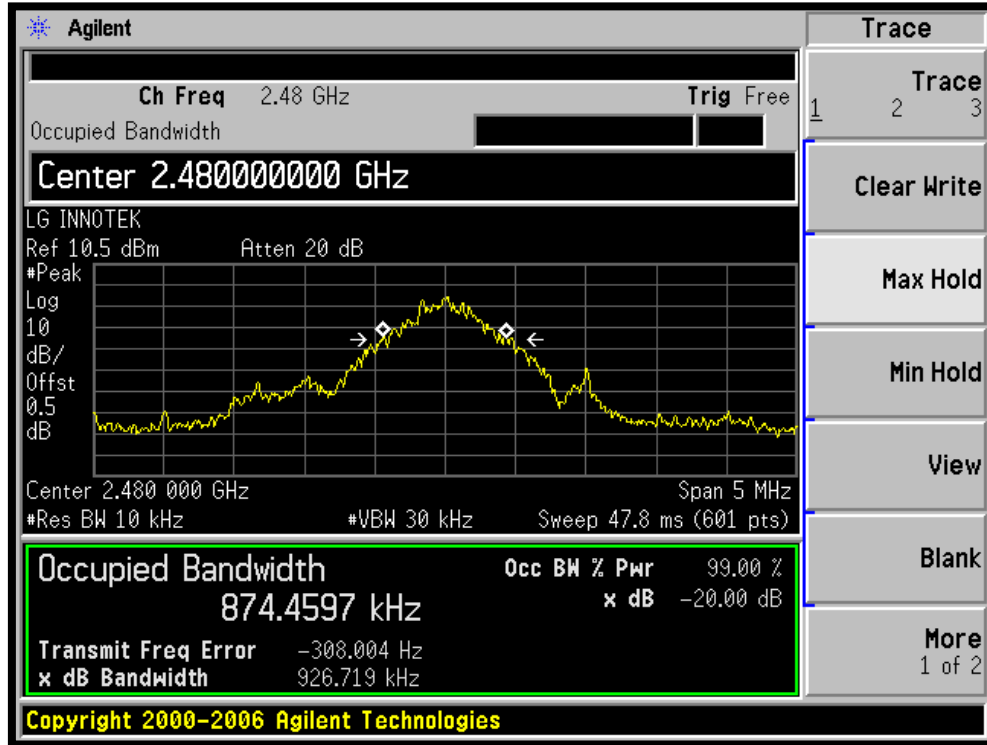
Low Channel



Middle Channel



High Channel



10 §15.247 (a) (1) (iii) - NUMBER OF HOPPING FREQUENCIES USED

10.1 Standard Applicable

According to §15.247(a)(1)(iii), Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

10.2 Measurement Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on the bench without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the SA on Max-Hold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
4. Set the SA on View mode and then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

10.3 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	E4446A	US44300386	2007-04-26

* **Statement of Traceability:** **BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

10.4 Test Setup Diagram



10.5 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	65 %
ATM Pressure:	102.0 kPa

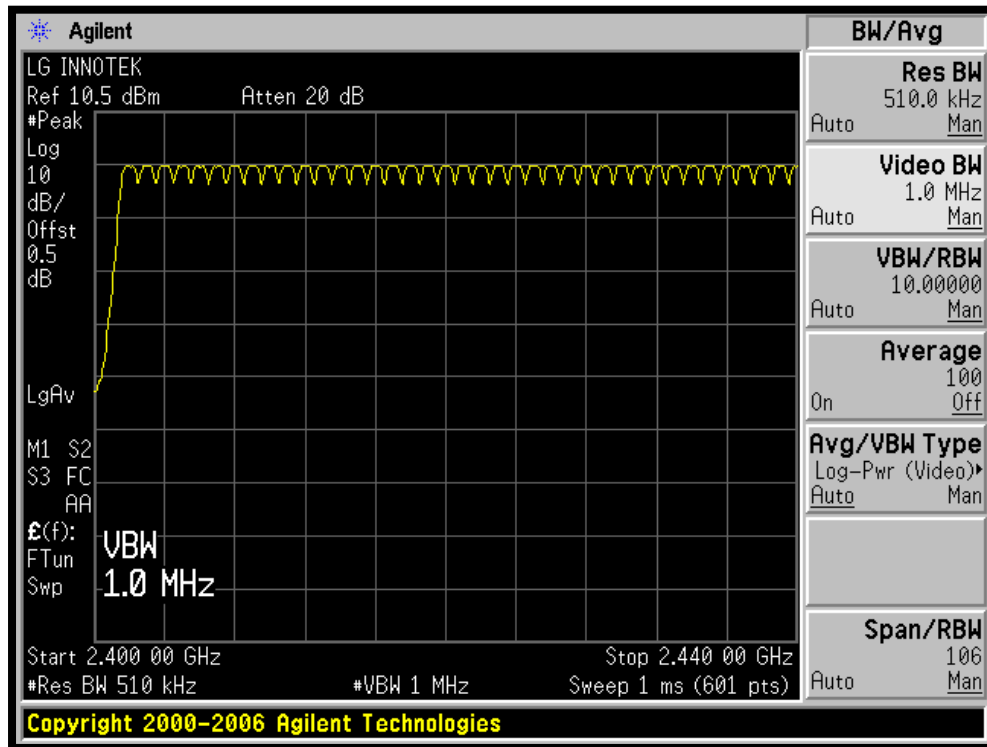
The testing was performed by Xiao Ming Hu from 2007-10-01

10.6 Measurement Result

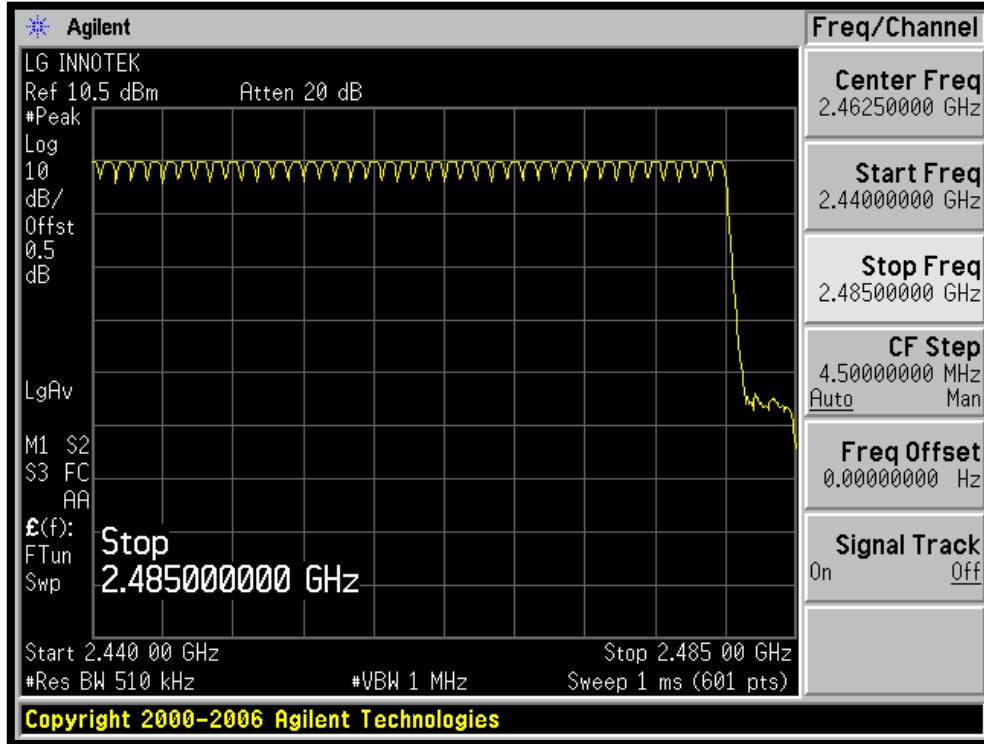
Frequency Range (MHz)	Number of Hopping Channels	Limit
2402-2480	79	>15

Please refer to the following plot:

Number of Channels: 38 Channels



Number of Channels: 41 Channels



11 §15.247(a) (1) (iii) - DWELL TIME

11.1 Applicable Standard

According to §15.247 (a)(1)(iii), According to §15.247(a)(1)(iii), For Frequency hopping systems in the 2400–2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Measurement Procedure

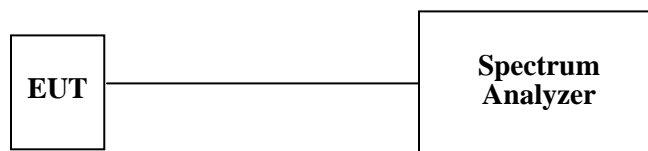
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
4. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
5. Repeat above procedures until all frequencies measured were complete.

11.3 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	E4446A	US44300386	2007-04-26

* **Statement of Traceability:** **BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

11.4 Test Setup Diagram



11.5 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	65 %
ATM Pressure:	102.0 kPa

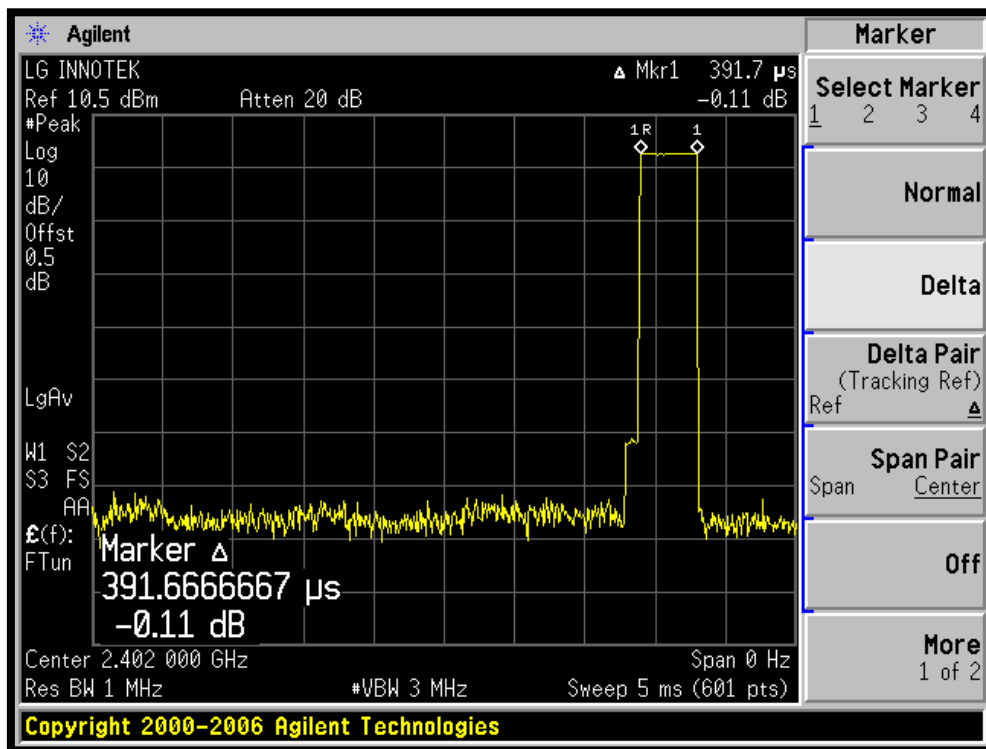
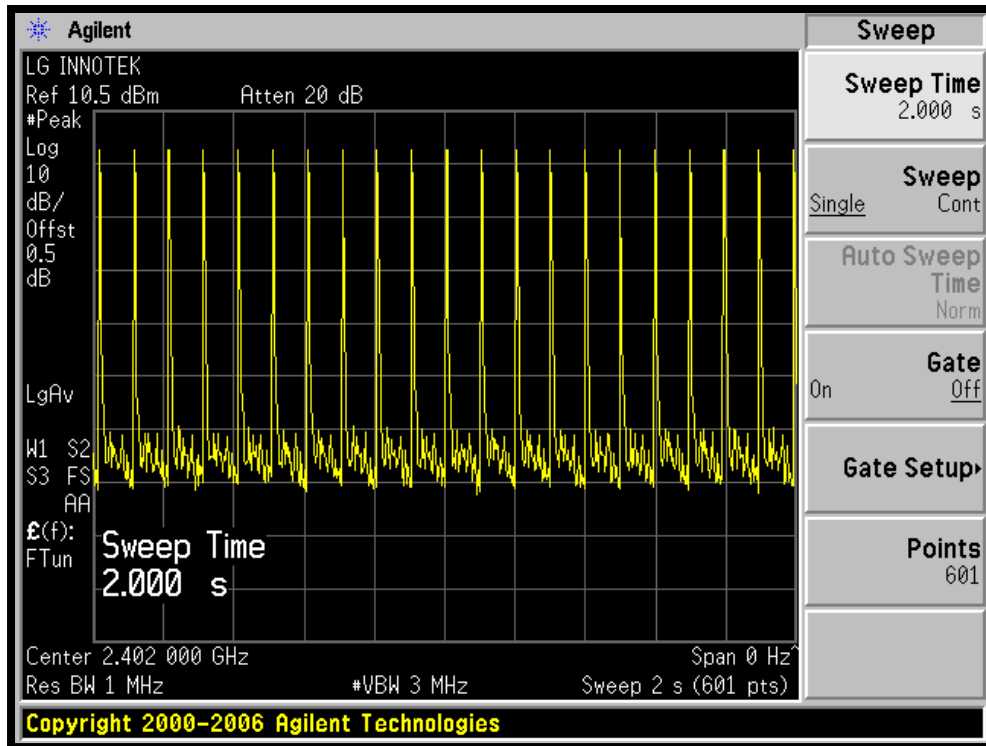
The testing was performed by Xiao Ming Hu from 2007-10-01.

11.6 Measurement Results

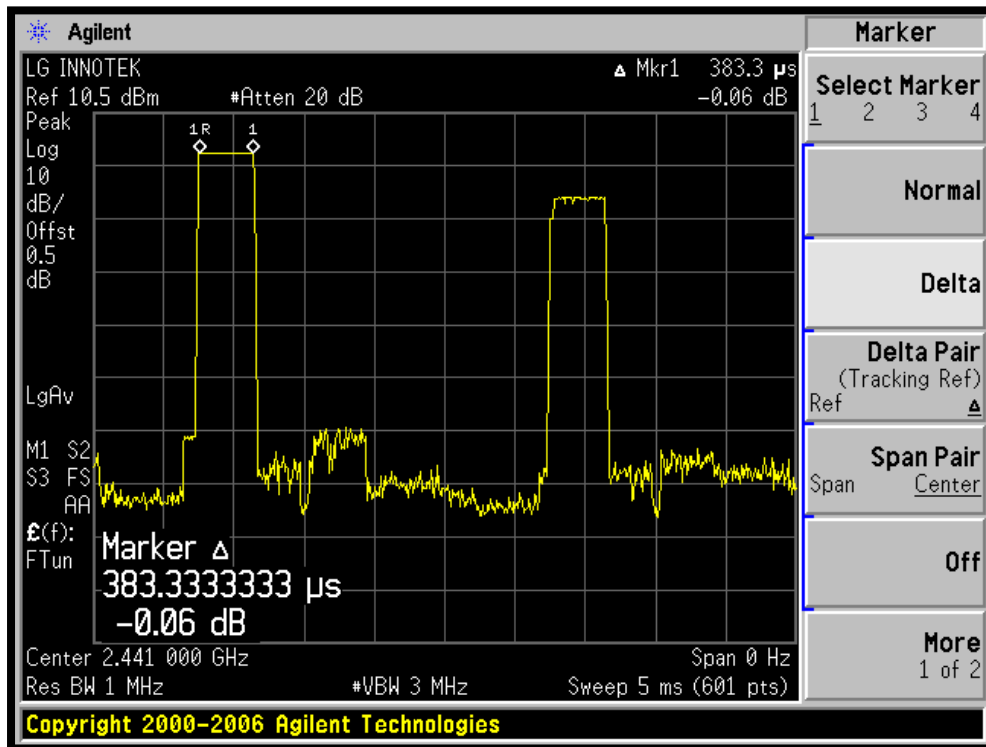
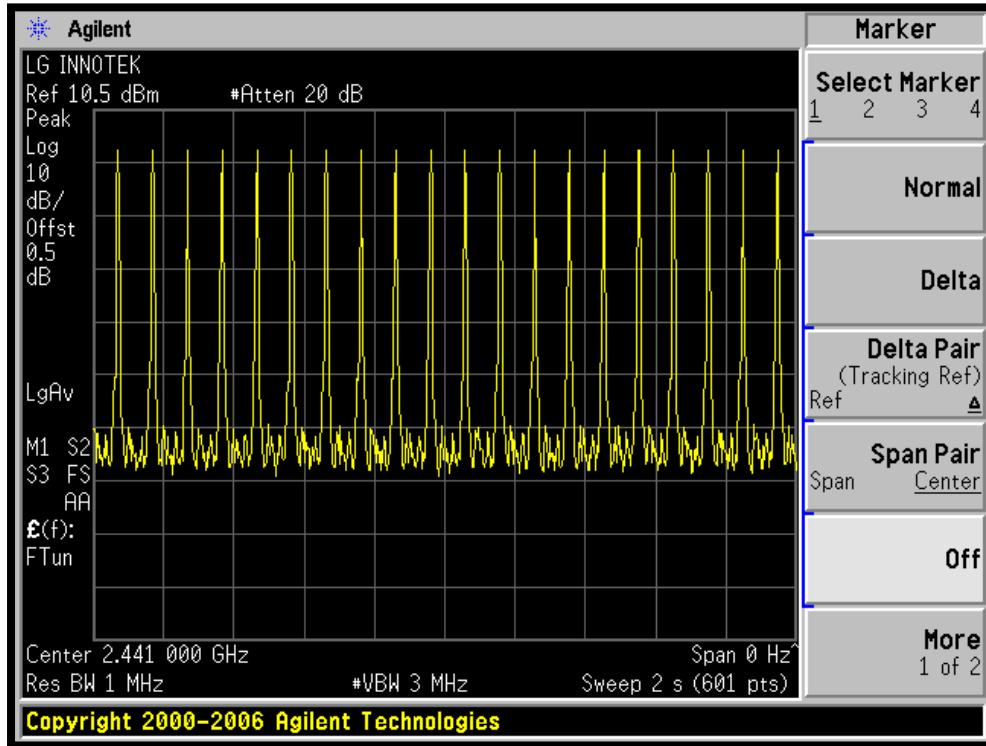
Channel	Frequency (MHz)	Pulse Width (µs)	Pulse Quantity Per 2 Sec	Dwell Time (sec.)	Limit (Sec.)	Result
Low	2402	391.7	21	0.13	0.4	Compliant
Mid	2441	383.3	20	0.12	0.4	Compliant
High	2480	383.3	20	0.12	0.4	Compliant

Please refer the following plots.

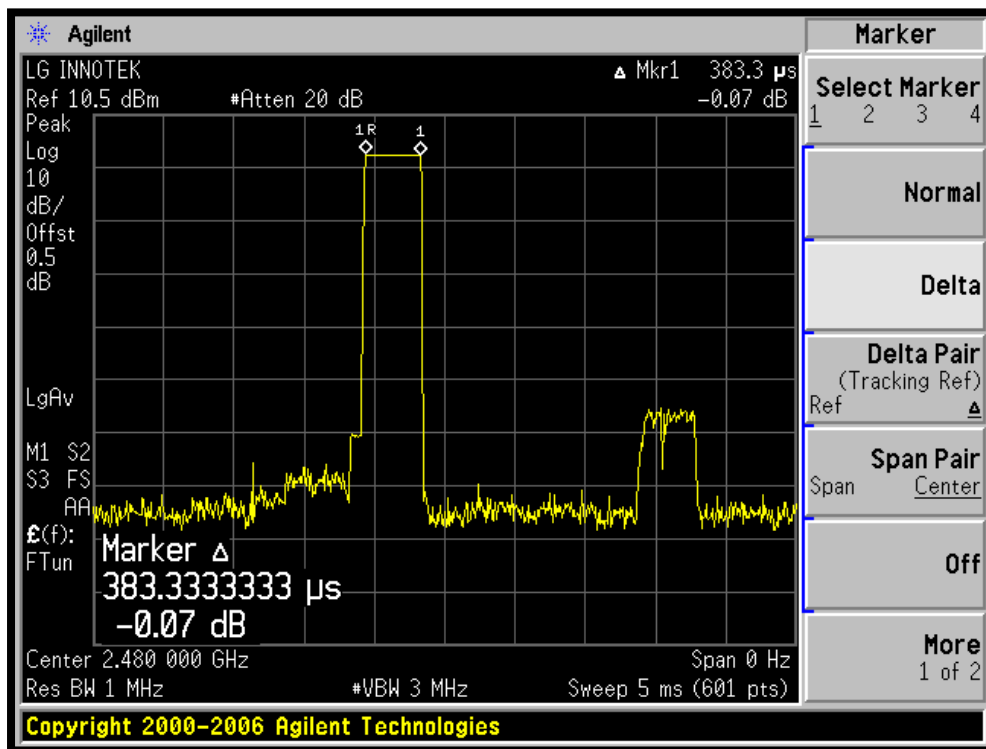
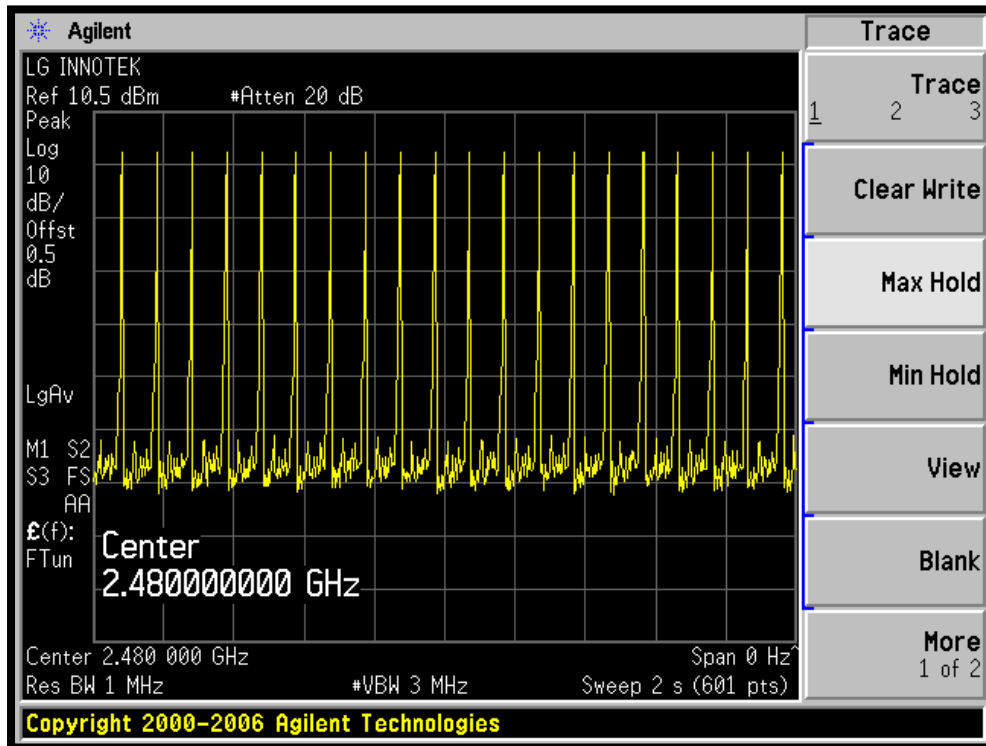
Low Channel



Middle Channel



High Channel



12 §15.247(B) (2) - MAXIMUM PEAK OUTPUT POWER

12.1 Standard Applicable

According to §15.247(b) (1), For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

12.2 Measurement Procedure

1. Place the EUT on the turntable and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

12.3 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	E4446A	US44300386	2007-04-26

* **Statement of Traceability:** **BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

12.4 Test Setup Diagram



12.5 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	65 %
ATM Pressure:	102.0 kPa

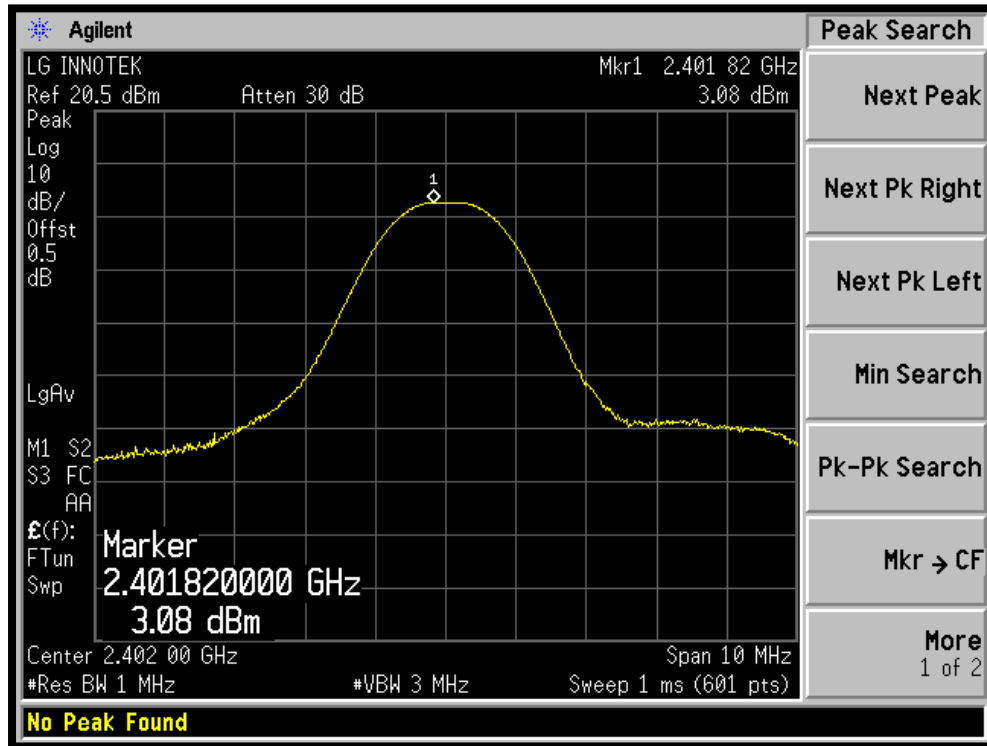
The testing was performed by Xiao Ming Hu from 2007-10-01.

12.6 Measurement Result

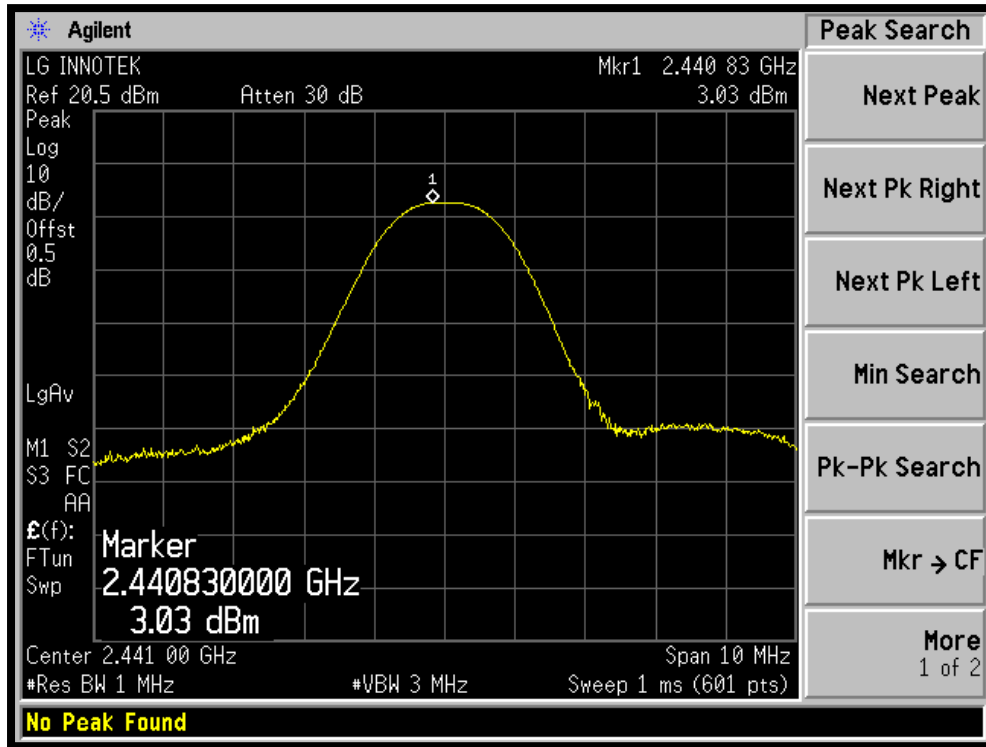
Channel	Frequency (MHz)	Max Peak Output Power		Limit (mw)	Result
		(dBm)	(mw)		
Low	2402	3.08	2.03	1000	Compliant
Mid	2441	3.03	2.01	1000	Compliant
High	2480	3.02	2.00	1000	Compliant

Please see the following plots:

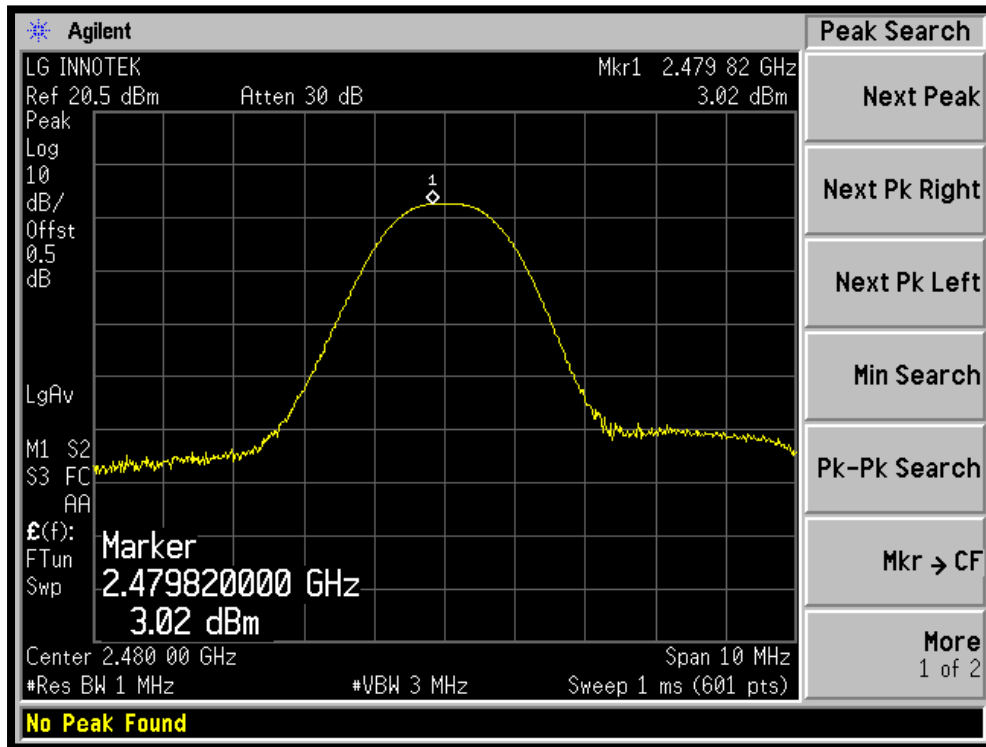
Low Channel



Middle Channel



High Channel



13 §15.247 (d) - 100 KHz BANDWIDTH OF BAND EDGES

13.1 Applicable Standard

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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 §15.209(a) is not required.

13.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

13.3 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	E4446A	US44300386	2007-04-26

* **Statement of Traceability:** **BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

13.4 Test Setup Diagram



13.5 Environmental Conditions

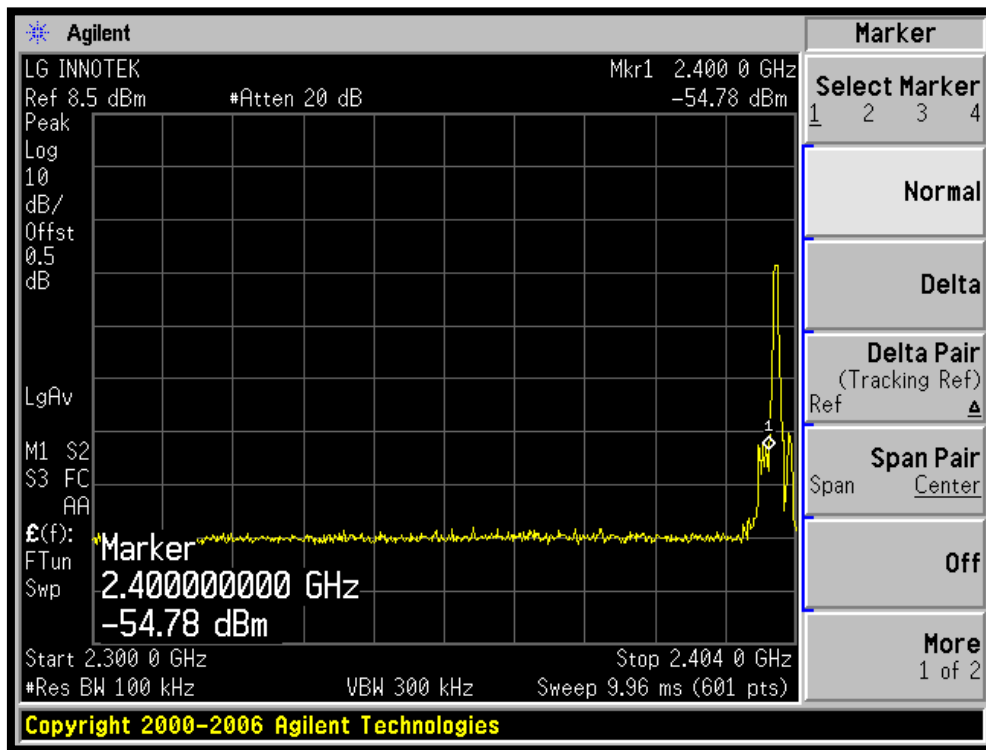
Temperature:	24 °C
Relative Humidity:	65 %
ATM Pressure:	102.0 kPa

The testing was performed by Xiao Ming Hu from 2007-10-01

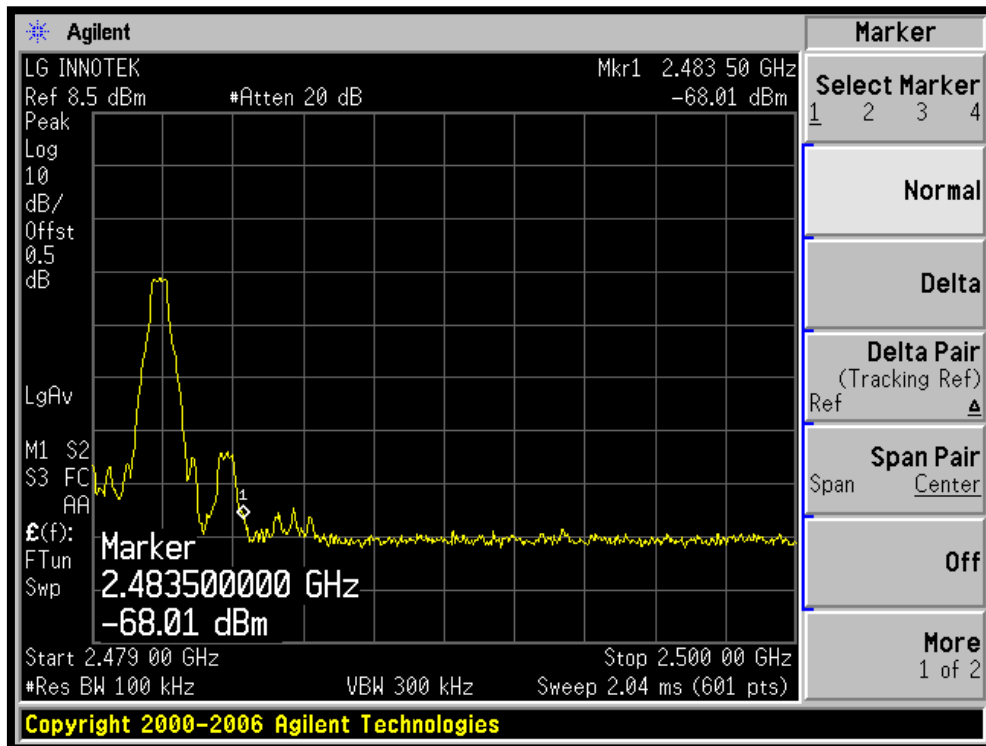
Please refer to the following plots for results.

13.6 Plots of 100 kHz Bandwidth of Band Edge

Low Channel



High Channel



14 § 15.247 (i) and § 2.1091 - RF EXPOSURE

14.1 Applicable Standard

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

14.2 MPE Prediction

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 3.08(dBm)

Maximum peak output power at antenna input terminal: 2.03(mw)

Prediction distance: 20 (cm)

Predication frequenc0y: 2441(MHz)

Antenna Gain (typical): 0.75 (dBi)

Antenna gain: 1.2 (numeric)

Power density at prediction frequency at 20 cm: 0.0005(mW/cm²)

MPE limit for uncontrolled exposure at prediction frequency: 0.0005 (mW/cm²)

14.3 Test Result

The power density level at 20 cm is 0.0005 mW/cm², which is below the uncontrolled exposure limit of 1.00_mW/cm² at 2441 MHz.

15 EXHIBIT A - FCC ID LABEL INFORMATION

15.1 FCC § 2.925 Identification of equipment

(a) Each equipment covered in an application for equipment authorization shall bear a nameplate or label listing the following:

(1) FCC Identifier consisting of the two elements in the exact order specified in §2.926. The FCC Identifier shall be preceded by the term *FCC ID* in capital letters on a single line, and shall be of a type size large enough to be legible without the aid of magnification.

Example: FCC ID: XXX123. XXX—Grantee Code 123—Equipment Product Code

15.2 FCC ID Labeling Requirements as per FCC § 15.19

(a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or verification shall be labeled as follows:

(3) All other devices shall bear the following statement in a conspicuous location on the device:

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

(4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified above is required to be affixed only to the main control unit. If the EUT is integrated within another device then a label affixed to the host shall also state, "Contains FCC ID: XXXXXX"

(5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

15.3 Suggested FCC ID Label

Model: RBDS-C001X

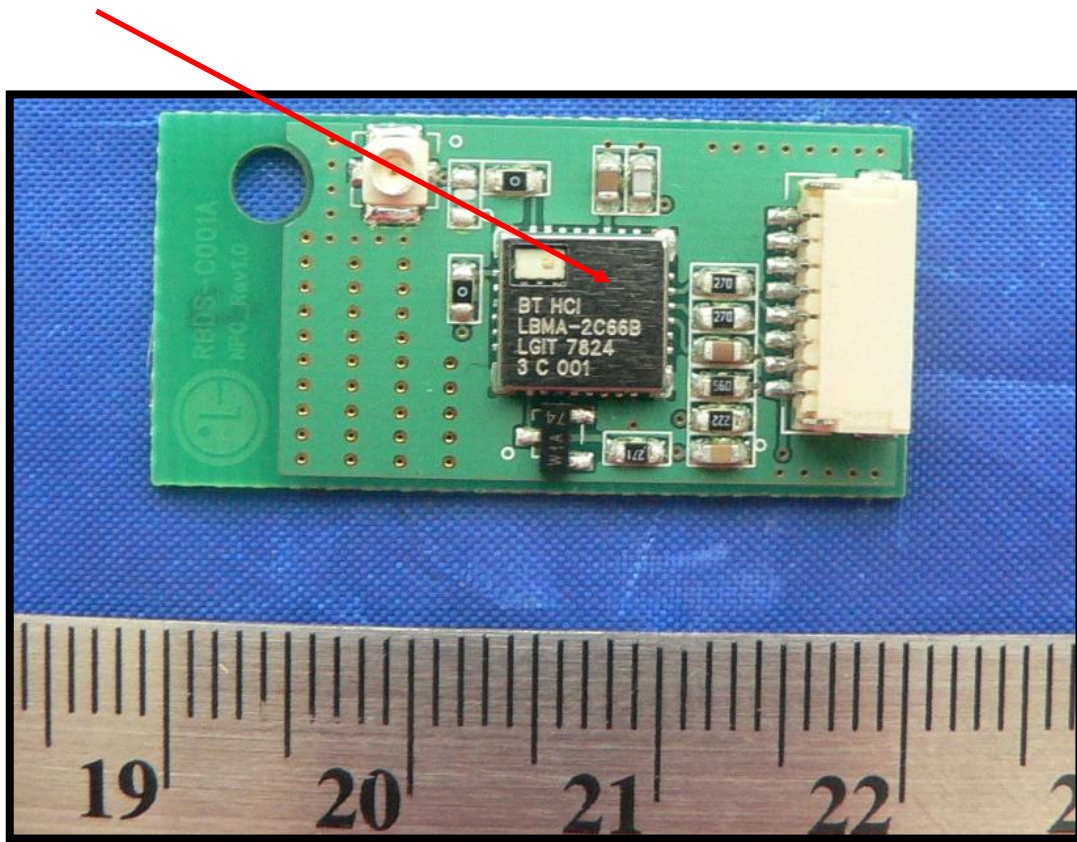
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID: VQTRBDS-C001X



LG Innotek Co., Ltd.

15.4 Suggested Label Position

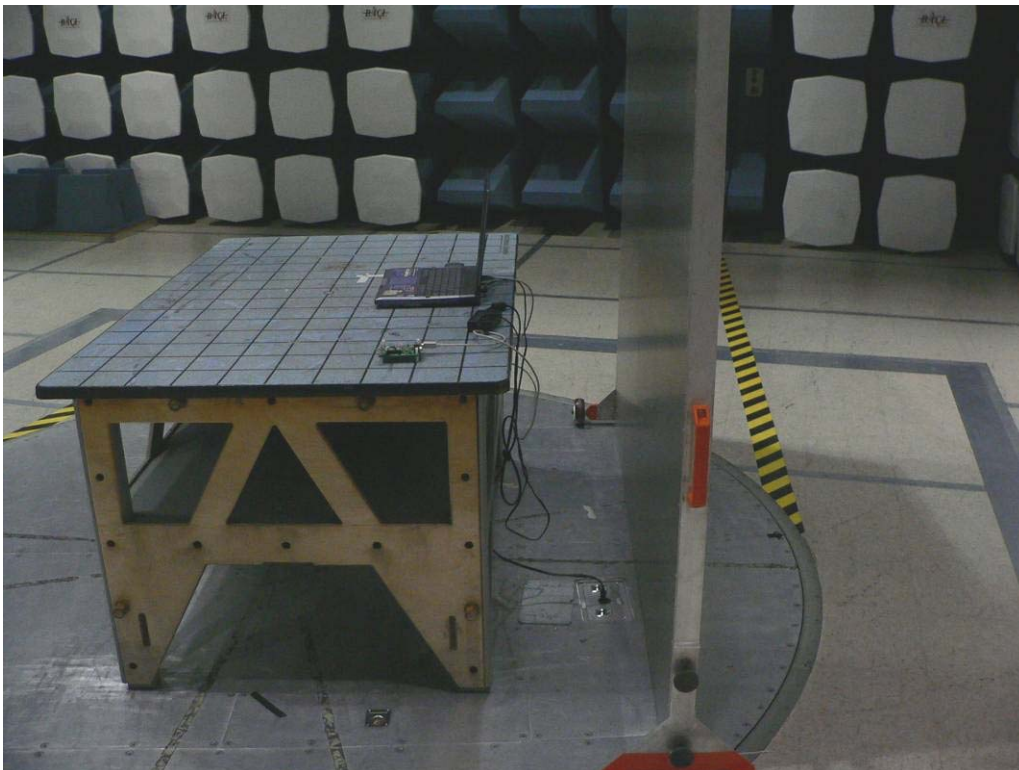


16 EXHIBIT B - TEST SETUP PHOTOGRAPHS

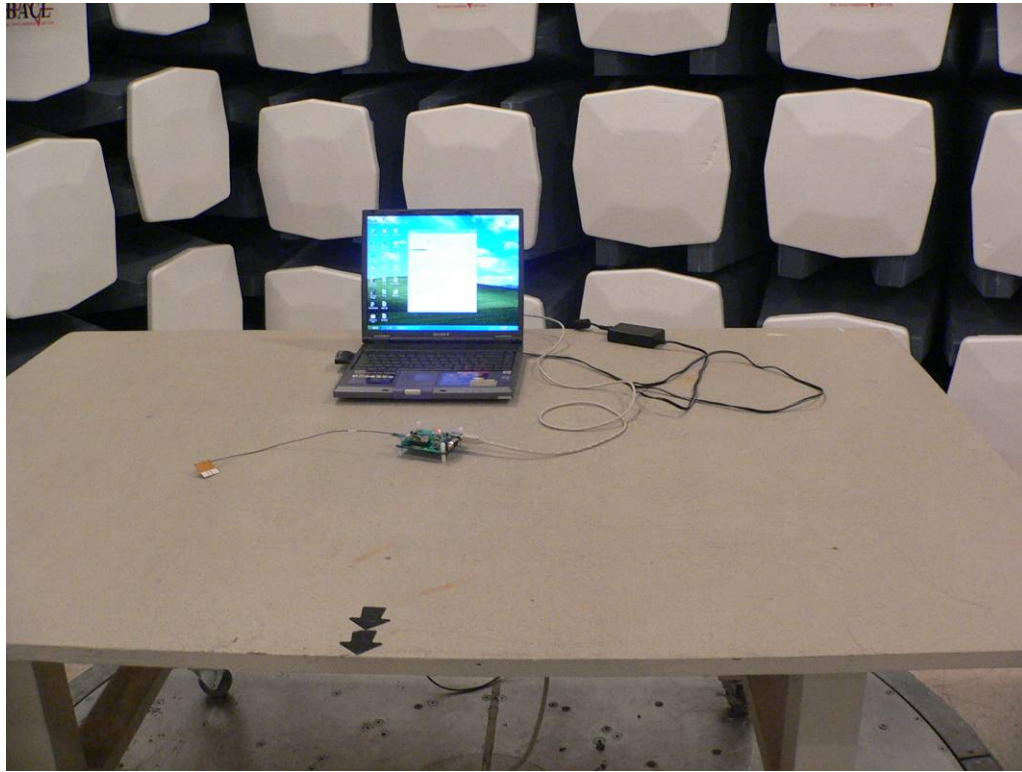
16.1 Conducted Emissions – Front View



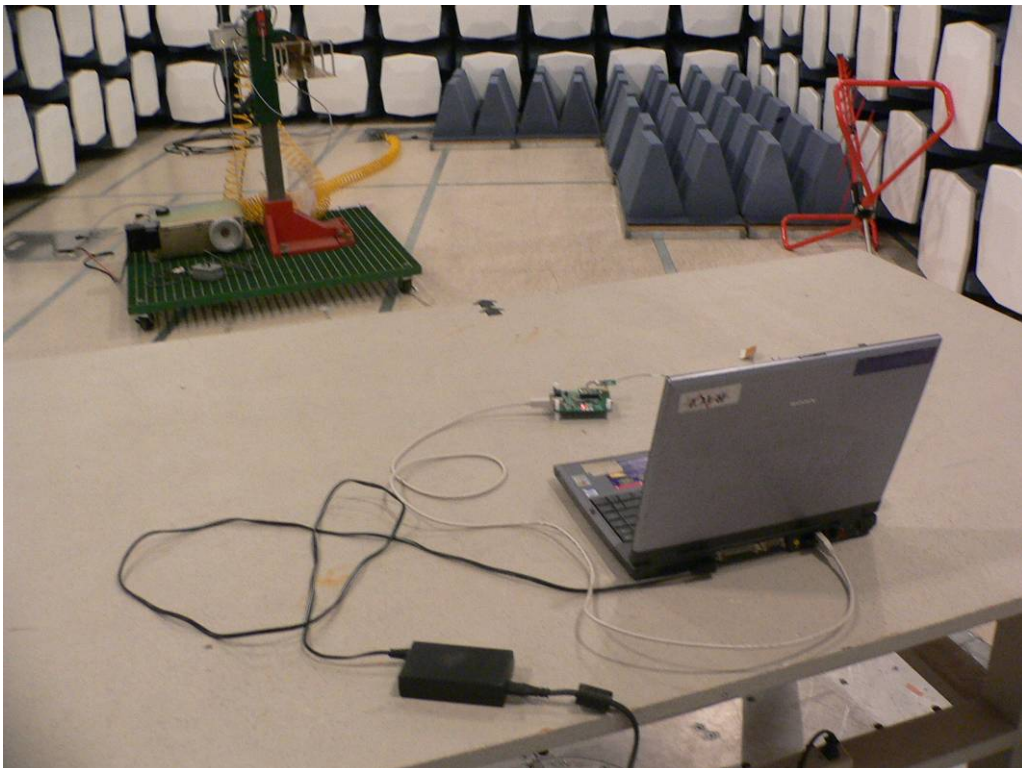
16.2 Conducted Emissions – Side View



16.3 Transmitter Radiated Emissions – Front View

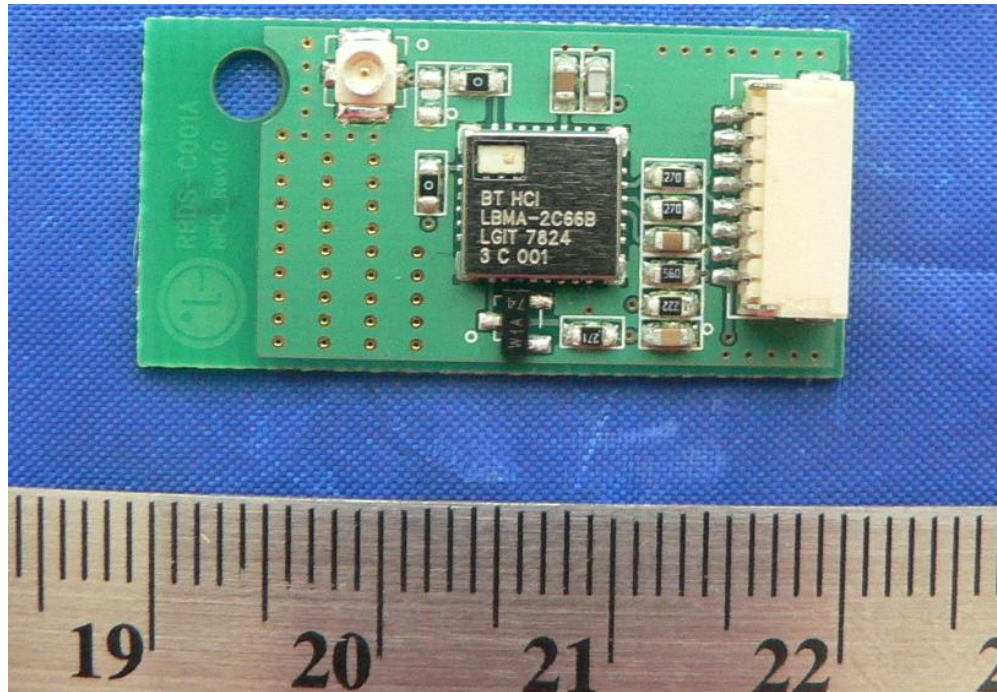


16.4 Transmitter Radiated Emissions – Rear View

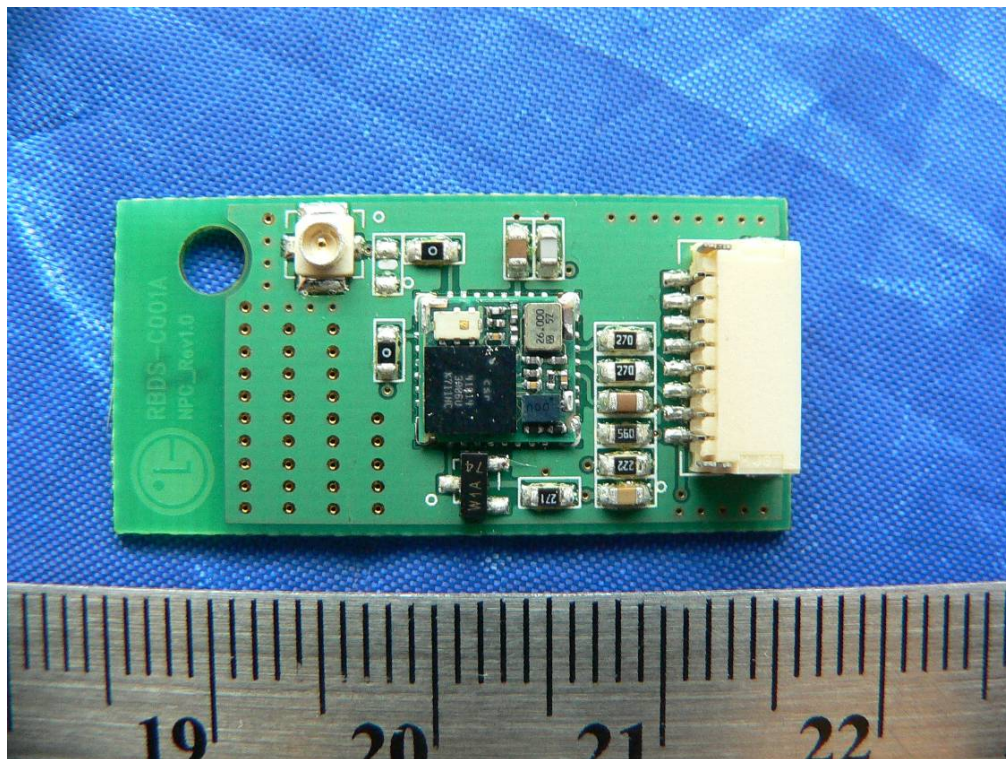


17 EXHIBIT C - EUT PHOTOGRAPHS

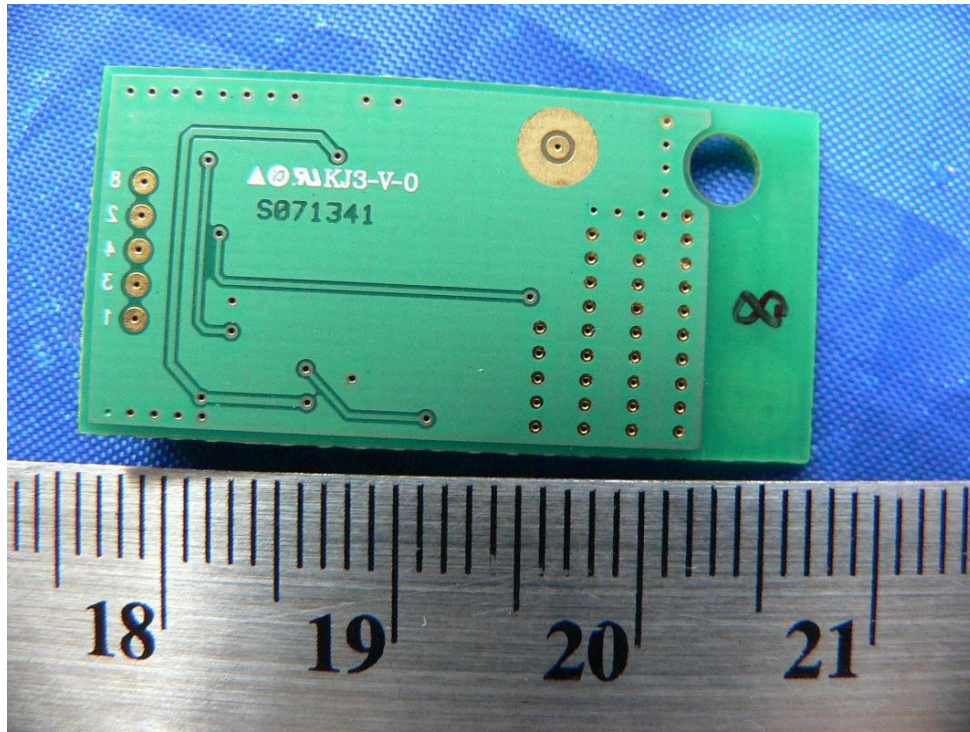
17.1 EUT Component View



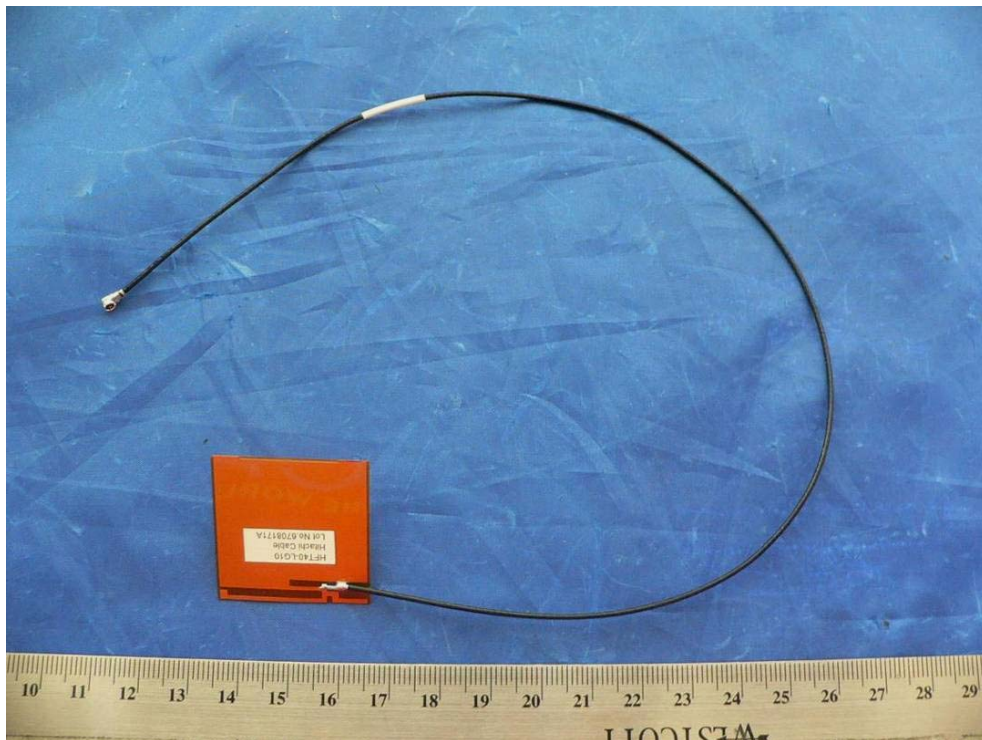
17.2 EUT without Shielding Component View



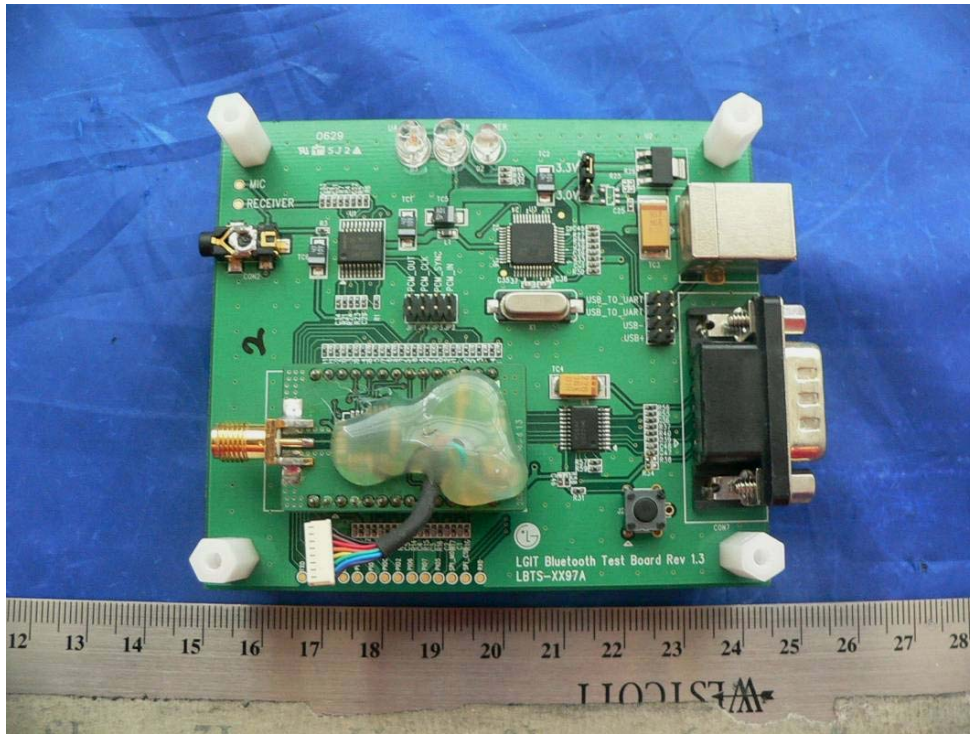
17.3 EUT Solder View



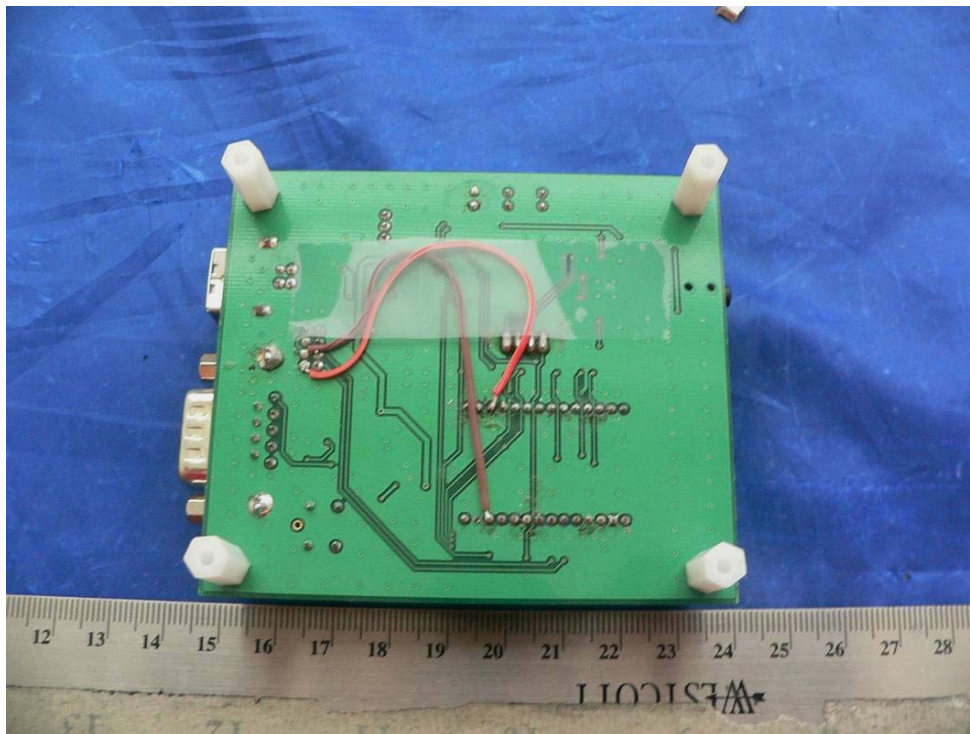
17.4 Antenna with Cable View



17.5 Test Board Component View



17.6 Test Board Solder Side View



***** END OF REPORT *****