

# ***FCC TEST REPORT***

**FCC ID** : VCYMX-BT30

**Applicant** : **TOHO SUPPLY CO., LTD.**  
ROYAL MEGURO 502 1-4-6 SHIMOMEGURO MEGURO-KU TOKYO  
JAPAN

**Equipment Under Test (EUT) :**

Product description : Bluetooth stereo headset

Model No. : MX-BT30/GW-BTH-033

**Standards** : FCC 15 Paragraph 15.247

**Date of Test** : May 31, 2007

**Test Engineer** : Tiger Su

**Reviewed By** : 

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### 3 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 25GHz)	FCC PART 15: 2003	ANSI C63.4: 2003	Class B	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15: 2003	ANSI C63.4: 2003	Class B	N/A

## 4 General Information

### 4.1 Client Information

Applicant: **TOHO SUPPLY CO., LTD.**  
Address of Applicant: ROYAL MEGURO 502 1-4-6 SHIMOMEGURO MEGURO-KU TOKYO JAPAN

### 4.2 General Description of E.U.T.

Product description: Bluetooth stereo headset  
Model No.: MX-BT30/GW-BTH-033

### 4.3 Details of E.U.T.

Power Supply: DC 3.7V Battery

### 4.4 Description of Support Units

The EUT has been tested as an independent unit.

### 4.5 Standards Applicable for Testing

The customer requested FCC tests for a Bluetooth stereo headset. The standards used were FCC 15 Paragraph 15.247, Paragraph 15.205, Paragraph 15.207, Paragraph 15.209, Paragraph 15.31, Paragraph 15.33, Paragraph 15.35.

#### **4.6 Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC – Registration No.: 101879**

Compliance Engineering Service (China) EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 101879, September 28, 2004.

#### **4.7 Test Location**

All Emissions testswere performed at:-

No. 6 Bldg. 35 Jin Ao Industry Technolog Yuan, Jukeng Rd., Da-Dhui-Keng Cun, Guan Lan Zhen, Bao An Qu, ShenZhen City, China 518110

## 5 Equipment Used during Test

DESCRIPTION	MFR	MODEL#	SERIAL #	LAST CAL.	CAL.DUE	Firmware	Software
AMPLIFIER	MITEQ	AW-1604-3000	1093584	2006/06/10	2007/06/09	N/A	N/A
ANTENNA	EMCO	3142B	9910-1436	2006/06/10	2007/06/09	N/A	N/A
BILOG ANTENNA	SCHAF FNER	CBL6143	5082	2006/06/10	2007/06/09	N/A	N/A
Horn Antenna	ASA	NA	NA	2006/06/10	2007/06/09	N/A	N/A
CABLE	TIME MICRO WAVE	LMR-400	N-TYPE04	2006/06/10	2007/06/09	N/A	N/A
Spectrum Analyzer	Agilent	E7402A	MY420001 39	2006/06/10	2007/06/09	N/A	N/A
EMI test Receiver	ROHD E&SCH WARZ	ESCI	1166.595K 03	2007/02/09	2008/02/08	N/A	N/A
Signal Generator	Agilent	8648C	3847M0111 4	2007/02/09	2008/02/08	N/A	N/A

DESCRIPTION	MFR	MODEL#	SERIAL#	LAST CAL.	CAL. DUE	Firmware	Software
Receiver	R&S	ESPI3		2007/02/09	2008/02/08	Ver 3.32 SP2	Labview 5.0
LISN (EUT)	R&S	ENV216		2007/02/09	2008/02/08	N/A	N/A
LISN	EMCO	3825/2	8901-1459	2007/02/09	2008/02/08	N/A	N/A

SPECTRUM ANALYZER	ADVANT ENT	R3132	N02563	2006/06/10	2007/06/09	Ver F04	N/A
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## 6 Conducted Emission Test

Test Requirement:	FCC Part15 Paragraph 15.207
Test Method:	Based on FCC Part15 Paragraph 15.207
Test Date:	.....
Frequency Range:	150kHz to 30MHz
Class:	Class B
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth) Quasi-Peak & Average if maximised peak within 6dB of Average Limit

### 6.1 Test Equipment

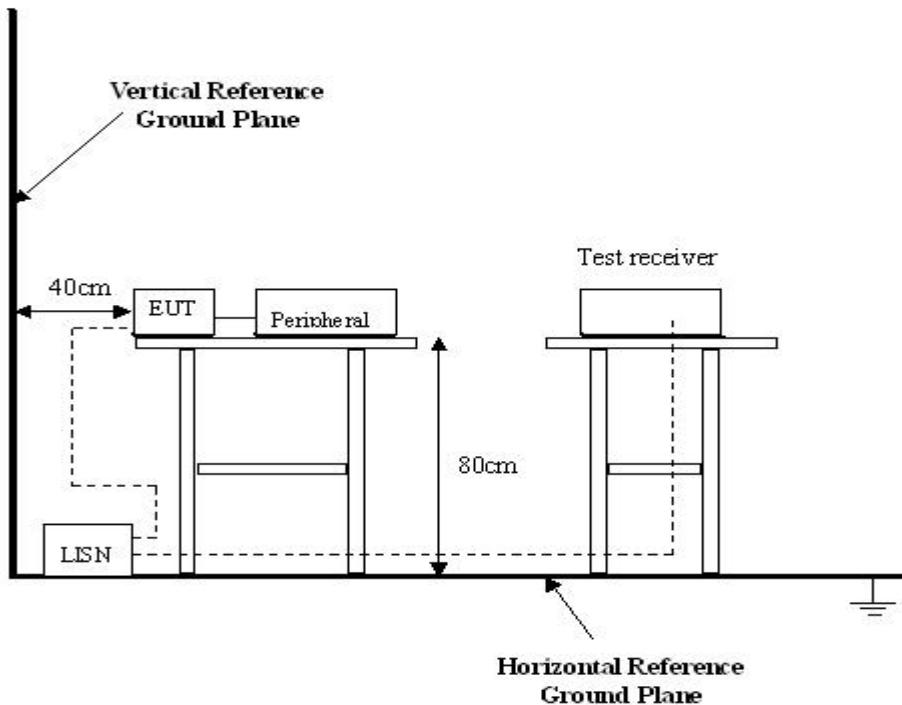
Please refer to Section 5 this report.

### 6.2 Test Procedure

1. The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.
2. The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

### 6.3 Conducted Test Setup

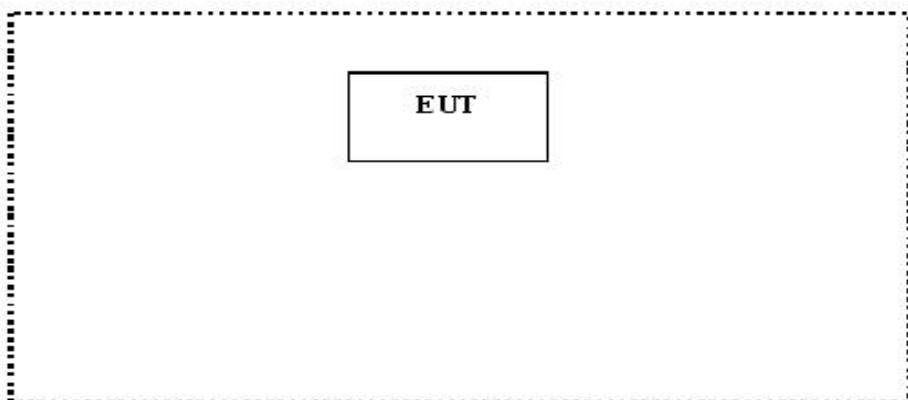
The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Paragraph 15.207 limits.



### 6.4 EUT Operating Condition

Operating condition is according to ANSI C63.4:2003.

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- C. Modulate output capacity of EUT up to specification.



## 6.5 Conducted Emission Limits

66-56 dB $\mu$ V/m between 0.15MHz & 0.5MHz

56 dB $\mu$ V/m between 0.5MHz & 5MHz

60 dB $\mu$ V/m between 5MHz & 30MHz

**Note:** In the above limits, the tighter limit applies at the band edges.

Owing to the DC operation of EUT, this test is not performed.

## 7 Radiation Emission Test

Test Requirement:	FCC Part15 Paragraph 15.247
Test Method:	Based on ANSI 63.4:2003
Test Date:	May 31, 2007
Frequency Range:	30MHz to 25GHz
Measurement Distance:	3m
Detector:	Peak for pre-scan (120kHz resolution bandwidth) Quasi-Peak if maximised peak within 6dB of limit

### 7.1 Test Equipment

Please refer to Section 5 this report.

### 7.2 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.

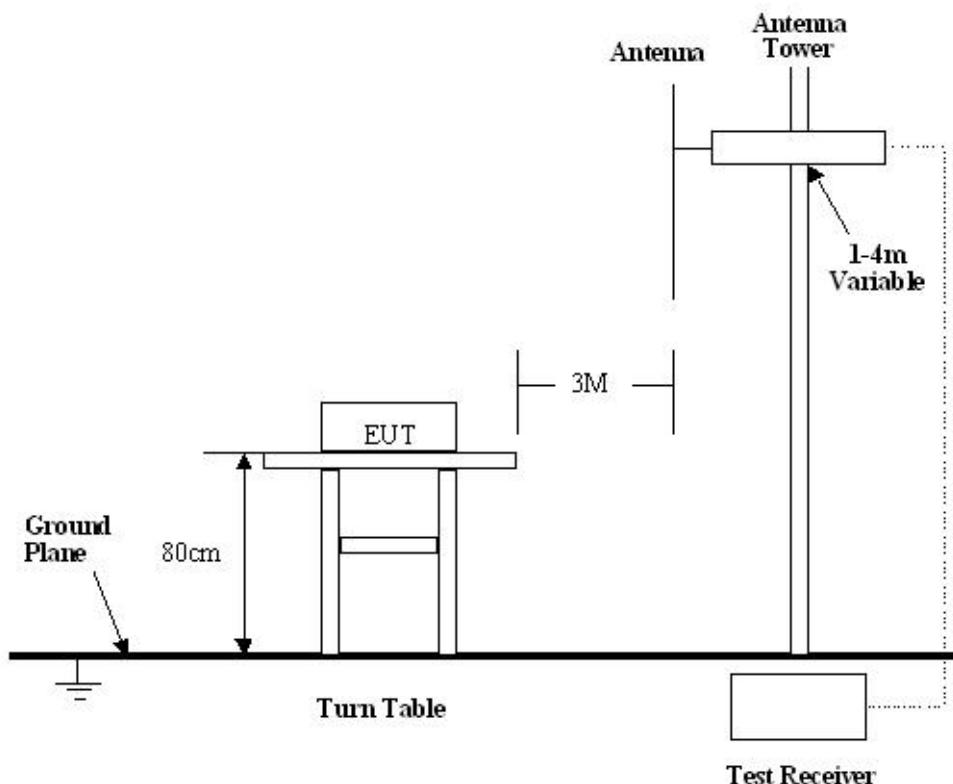
Based on ANSI C63.4:2003, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at CCS EMC Lab is +4.0 dB.

### 7.3 Test Procedure

1. For the radiated emissions test, since the EUT does not have a power source, there was no connection to AC outlets.
2. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.
3. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB $\mu$ V of specification limits), and are distinguished with a "Qp" in the data table.
4. The EUT was under normal mode during the final qualification test and the configuration was used to represent the worst case results.

## 7.4 Radiated Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Paragraph 15.209 limits and Paragraph 15.247 limits.



## 7.5 Spectrum Analyzer Setup

According to FCC Part15 Paragraph 15.247 Rules, the system was tested to 25000 MHz.

Start Frequency .....	30 MHz
Stop Frequency .....	25000 MHz
Sweep Speed	Auto
IF Bandwidth .....	100 kHz
Video Bandwidth .....	1 MHz
Quasi-Peak Adapter Bandwidth .....	120 kHz
Quasi-Peak Adapter Mode .....	Normal
Resolution Bandwidth .....	1MHz

## 7.6 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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of  $-7\text{dB}\mu\text{V}$  means the emission is  $7\text{dB}\mu\text{V}$  below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$

## 7.7 Summary of Test Results

According to the data in section 7.10, the EUT complied with the FCC Part15 Paragraph 15.247 standards.

## 7.8 EUT Operating Condition

Same as section 6.4 of this report.

Let the EUT work in test mode(Tx Low/Tx Middle/Tx High) and test it.

## 7.9 Radiated Emissions Limit on Paragraph 15.209

Frequency(MHZ)	Distance(m)	Field strength(dBuV/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

**Note:**

- (1) RF Voltage(dBuV)=20 log RF Voltage(uV)
- (2) In the Above Table, the tighter limit applies at the band edges.
- (3) Distance refers to the distance in meters between the measuring instrument antenna.
- (4) The emission limit in this paragraph is based on measurement instrumentaion employing an average detector. Measurement using instrumentation with a peak detector function,corresponding to 20dB above the maximum permitted average limit.
- (5) Above 1GHz,do a Peak and average measurements for all emissions,Limit for peak is 74dBuvV/m,According to Part15.35(b) and average is 54BuvV/m.

## 7.10 Radiated Emissions Test Result

Formula of conversion factors: the field strength at 3m was established by adding The meter reading of the spectrum analyser (which is set to read in units of dBuV) To the antenna correction factor supplied by the antenna manufacturer. The antenna Correction factors are stated in terms of dB. The gain of the preselector was accounted For in the spectrum analyser meter reading.

Example:

Freq(MHz) Meter Reading +ACF=FS

33            20dBuV+10.36dB=30.36dBuV/m @3m

## 7.11 Radiated Emission Data

Test Item:	Radiated Emission Data
Test Voltage:	3.7 VDC
Test Mode:	On(Tx Low/Tx Middle/Tx High)
Temperature:	24 °C
Humidity:	52%RH
Test Result:	PASS

Remarks: 30-1000MHz radiation test no significant emissions above the equipment noise floor were detected.

Frequency( MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	FCC 15 Subpart C Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (° )
Low frequency							
2402.00	AV	Vertical	75.67		(Fund.)	1.5	90
4804.00	AV	Vertical	44.68	54.00	9.32	1.5	90
7206.00	AV	Vertical	44.91	54.00	9.09	1.8	45
2402.00	AV	Horizontal	75.15		(Fund.)	1.5	270
4804.00	AV	Horizontal	43.54	54.00	10.46	1.6	90
7206.00	AV	Horizontal	43.28	54.00	10.72	1.5	90
2402.00	PK	Vertical	76.88		(Fund.)	1.5	90
4804.00	PK	Vertical	67.75	74.00	6.25	1.5	180
7206.00	PK	Vertical	63.24	74.00	10.76	1.8	45
2402.00	PK	Horizontal	76.52		(Fund.)	1.5	230
4804.00	PK	Horizontal	63.42	74.00	10.76	1.6	60
7206.00	PK	Horizontal	64.27	74.00	9.73	1.5	180

Middle frequency							
2441.00	AV	Vertical	76.56		(Fund.)	1.5	90
4882.00	AV	Vertical	46.62	54.00	7.38	1.5	90
7323.00	AV	Vertical	45.73	54.00	8.27	1.6	60
2441.00	AV	Horizontal	75.76		(Fund.)	1.5	45
4882.00	AV	Horizontal	44.34	54.00	9.66	1.5	250
7323.00	AV	Horizontal	43.16	54.00	10.84	1.8	60
2441.00	PK	Vertical	74.52		(Fund.)	1.5	45
4882.00	PK	Vertical	62.65	74.00	11.35	1.5	80
7323.00	PK	Vertical	61.72	74.00	12.28	1.5	230
2441.00	PK	Horizontal	74.25		(Fund.)	1.5	180
4882.00	PK	Horizontal	61.21	74.00	12.79	1.8	60
7323.00	PK	Horizontal	58.31	74.00	15.69	1.5	90
High frequency							
2480.00	AV	Vertical	76.76		(Fund.)	1.5	120
4960.00	AV	Vertical	45.65	54.00	8.35	1.5	60
7440.00	AV	Vertical	44.28	54.00	9.72	1.5	80
2480.00	AV	Horizontal	74.56		(Fund.)	1.5	120
4960.00	AV	Horizontal	45.12	54.00	8.88	1.5	45
7440.00	AV	Horizontal	44.94	54.00	9.06	1.5	210
2480.00	PK	Vertical	75.61		(Fund.)	1.5	80
4960.00	PK	Vertical	66.73	74.00	7.27	1.5	270
7440.00	PK	Vertical	57.33	74.00	16.67	1.5	90
2480.00	PK	Horizontal	72.12		(Fund.)	1.5	45
4960.00	PK	Horizontal	62.28	74.00	11.72	1.5	250
7440.00	PK	Horizontal	54.75	74.00	19.25	1.5	60

## 8 Maximum Peak Output Power

Test Requirement: FCC Part15 Paragraph 15.247  
Test Method: Based on ANSI 63.4:2003  
Test Date: May 31, 2007  
Test mode: Compliance test in the worse case: Tx Low/Tx Middle/Tx High  
Requirements: Regulation 15.247(b) The limit of Maximum Peak Output Power Measurement is 1W(30dBm)

### Test procedure:

The following test procedure as below:

1. The EUT was powered ON and placed on a table in the chamer.The antenna of the transmitter was extended to its maximum length.
2. The fundamental frequency of the transmitter was maximized on the test receiver display by raising and lowering the receive antenna and by rotating the turntable.After the fundamental emission was maximized,afield strength measurement was made.
3. The device under test has an integral antenna and the power was measured on a radiated basis.

### Test Result:

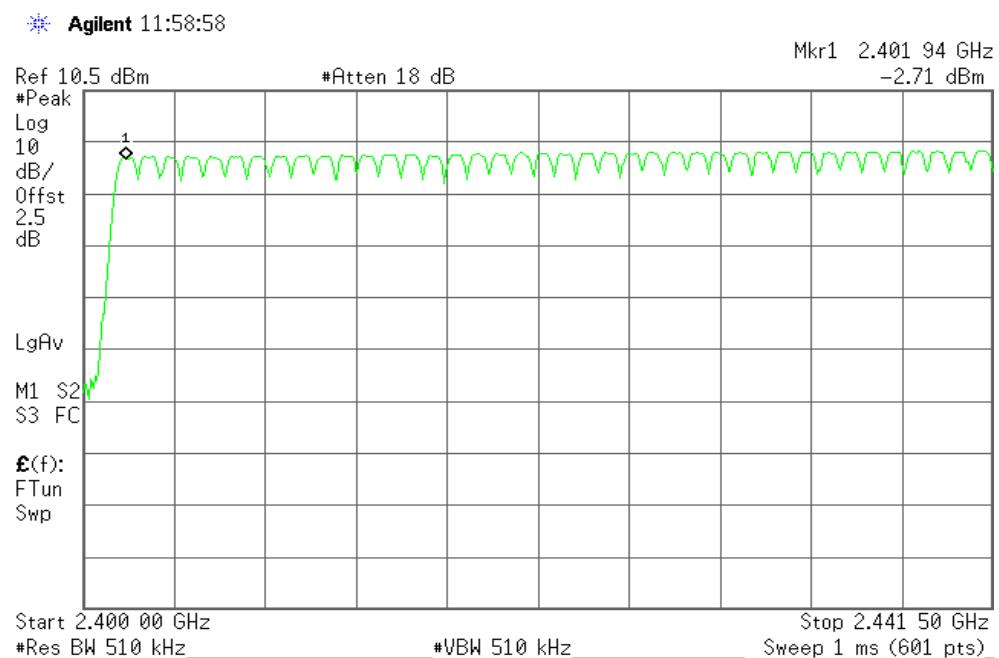
Test Channel	Fundamental Frequency(GHz)	Output Power (mW)	Limit (W)	Power output level
low	2.402	3.05	1	EIRP
middle	2.441	2.06	1	EIRP
high	2.480	2.15	1	EIRP

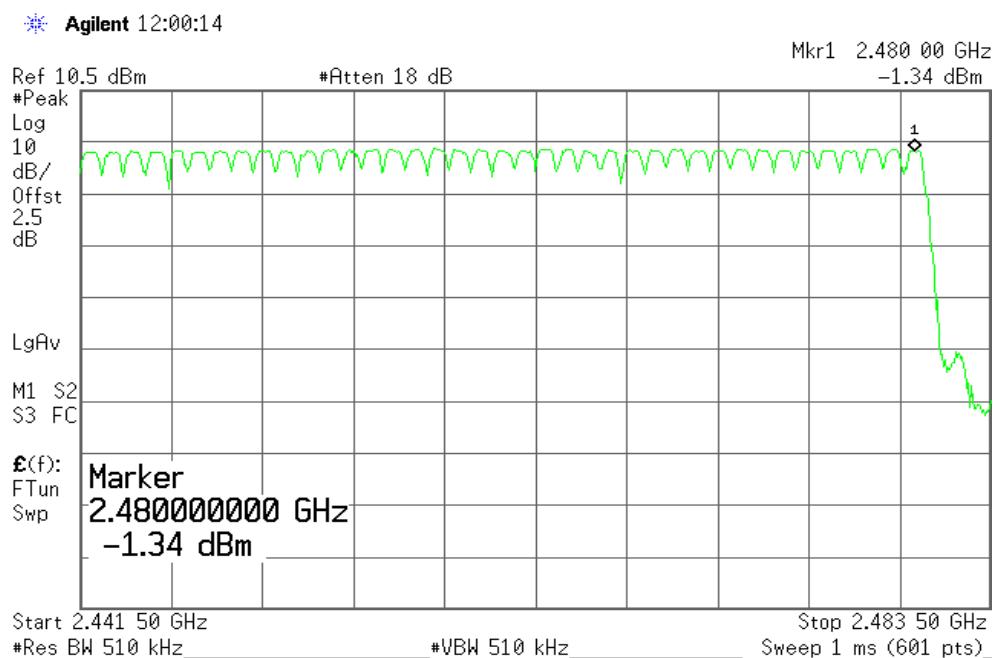
**Test Results:**The unit does meet the FCC requirements.

## 9 Hopping Channel Number

Test Requirement: FCC Part15 C  
Test Method: Based on FCC Part15 Paragraph 15.247  
Test Date: May 31, 2007  
Test mode: The EUT work in test mode(Tx) and test it  
Requirements: Regulation 15.247(a) For frequency hopping systems operating  
In the 2400-2483.5MHz band employing at least 75 hopping  
channels.  
Test result: The total number of channels would be 79 channels.  
The unit does meet the FCC requirements.

Please refer the graph as below:





## 10 Carrier Frequencies Separated

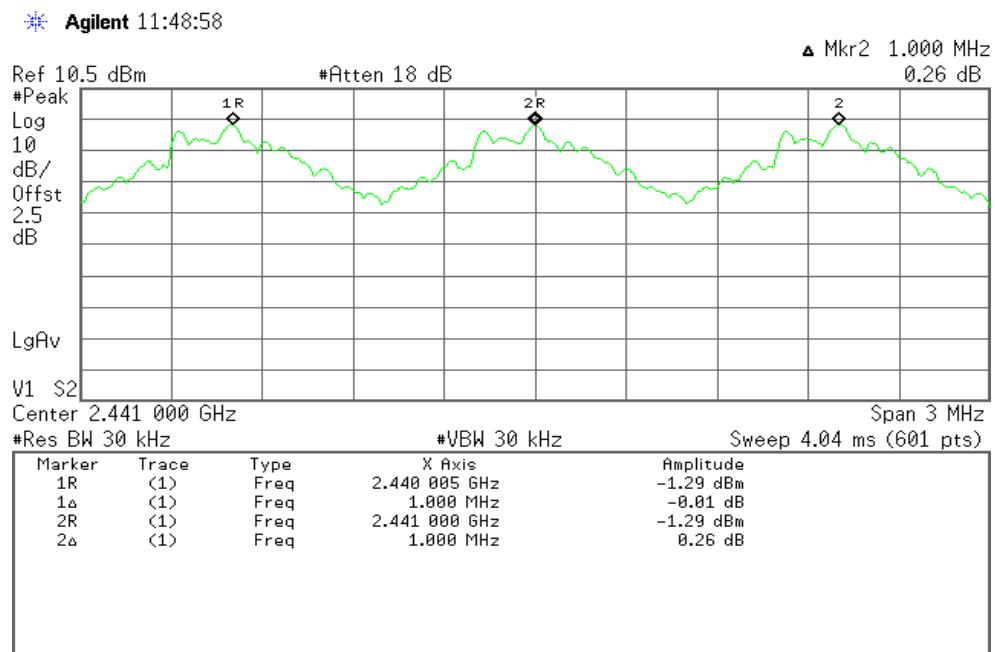
Test Requirement:	FCC Part15 C
Test Method:	Based on FCC Part15 Paragraph 15.247
Test Date:	May 31, 2007
Test mode:	The EUT work in test mode(Tx) and test it
Requirements:	The bandwidth of the fundamental frequency was measur by spectrum analyser with 30kHz RBW and 30kHz VBW.The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.
Test result:	PASS

### Channel Carrier Frequency Separated

Test Channel	Carrier Frequencies Separated	PASS/FAIL
Lower Channels (channel 1 and channel 2)	1MHz	Pass
Lower Channels (channel 39 and channel 40)	1MHz	Pass
Lower Channels (channel 78 and channel 79)	1MHz	Pass

The unit does meet the FCC requirements.

## 10.1 Middle Channels:Carrier Frequencies Separated



## 11 Dwell Time

Test Requirement:	FCC Part15 C
Test Method:	Based on FCC Part15 Paragraph 15.247
Test Date:	May 31, 2007
Test mode:	The EUT work in test mode(Tx) and test it

Requirements: 15.247 a(1)(iii)Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

### 11.1 Test procedure

EUT and its simulators are placed on a turn table, the EUT and let it work normally, let EUT working in test mode, then test it.

The bandwidth of the fundamental frequency was measured with the spectrum analyser using 1MHz RBW and 1MHz VBW, set sweep time: 5 ms. Span: 0Hz.

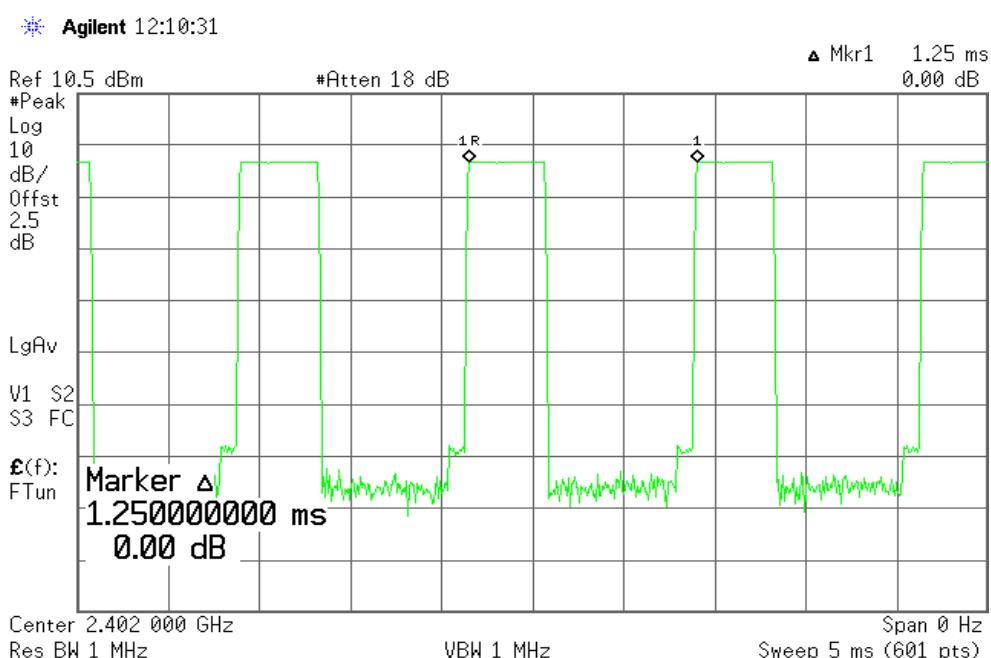
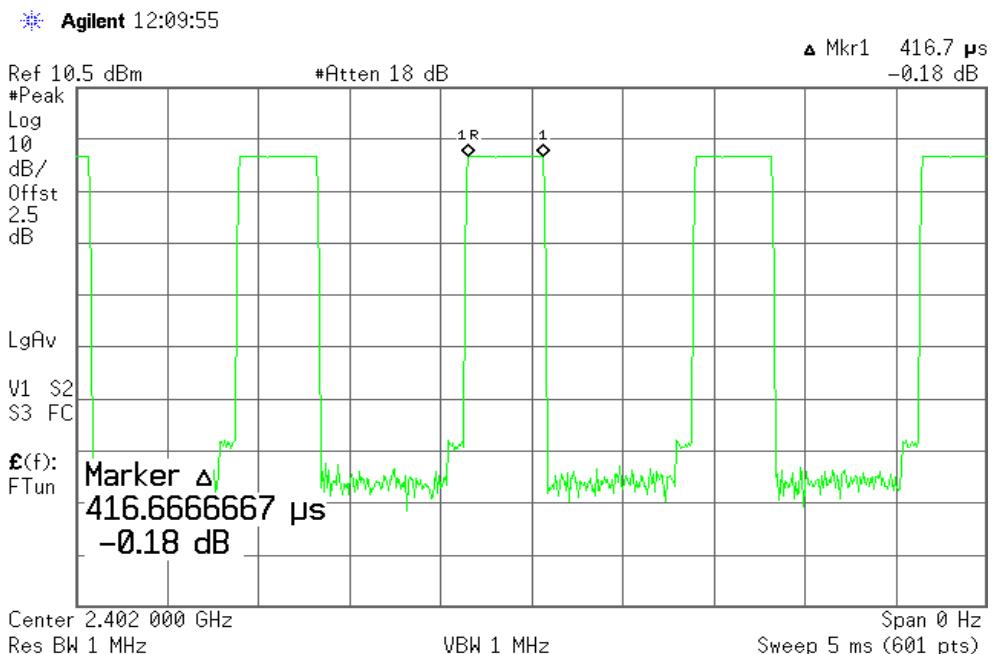
### 11.2 Test Results : PASS

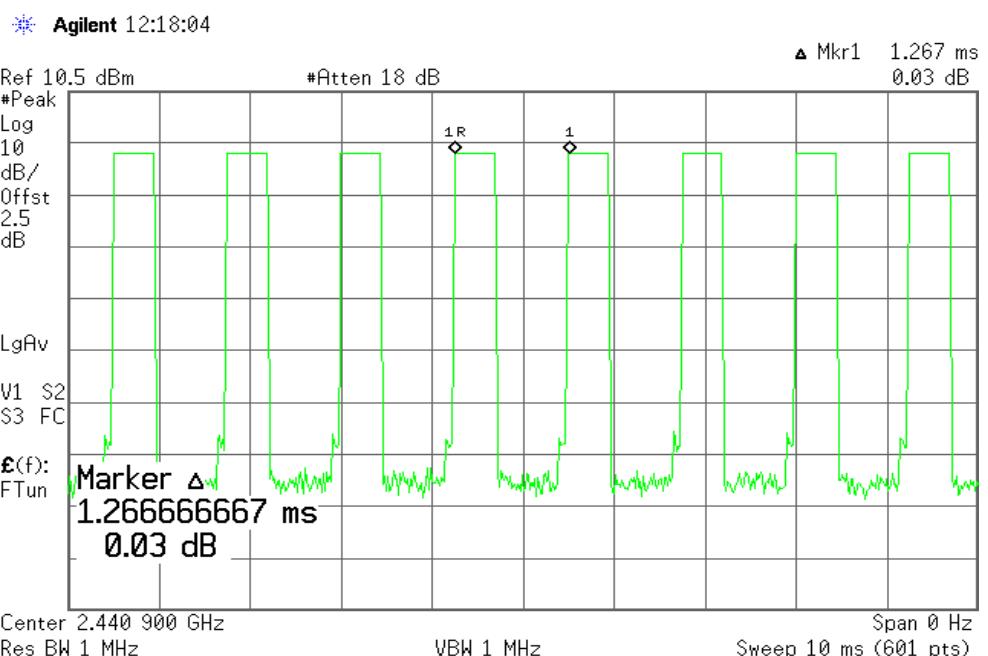
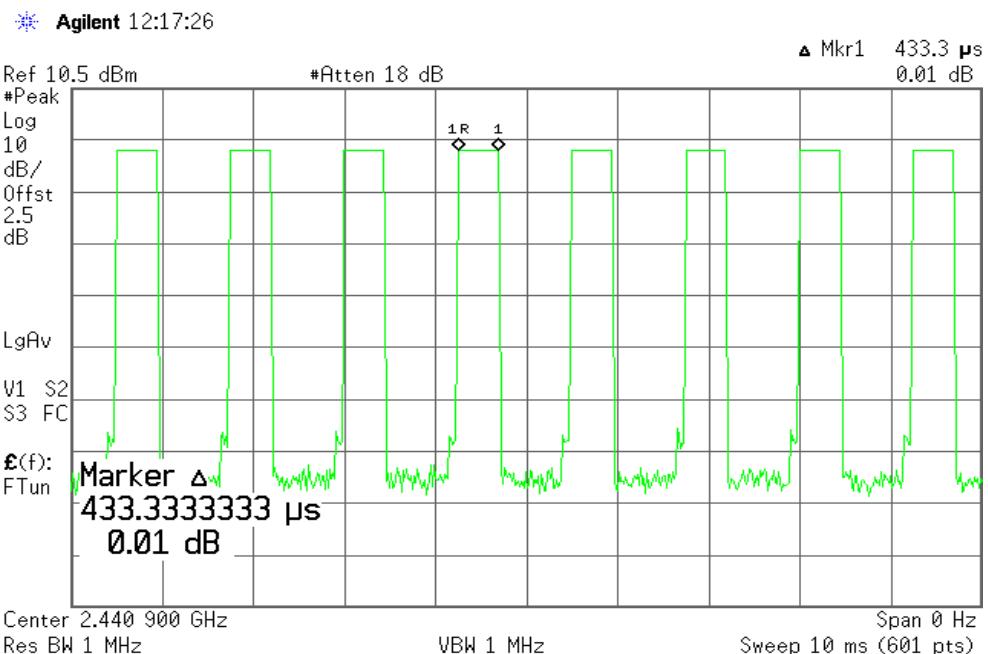
Sample calculation: In normal operation, there are 5 transmissions per 50ms. Therefore, the dwell time for each channel is:

- 1.Low Channel:  $0.4167\text{ms} \times (42/50\text{ms} \times 32\text{s})/80 = 0.14\text{ s} < 0.4\text{ s}$
- 2.Middle Channel:  $0.4333\text{ms} \times (42/50\text{ms} \times 32\text{s})/80 = 0.1454\text{ s} < 0.4\text{ s}$
- 3.High Channel:  $0.4167\text{ms} \times (42/50\text{ms} \times 32\text{s})/80 = 0.14\text{ s} < 0.4\text{ s}$

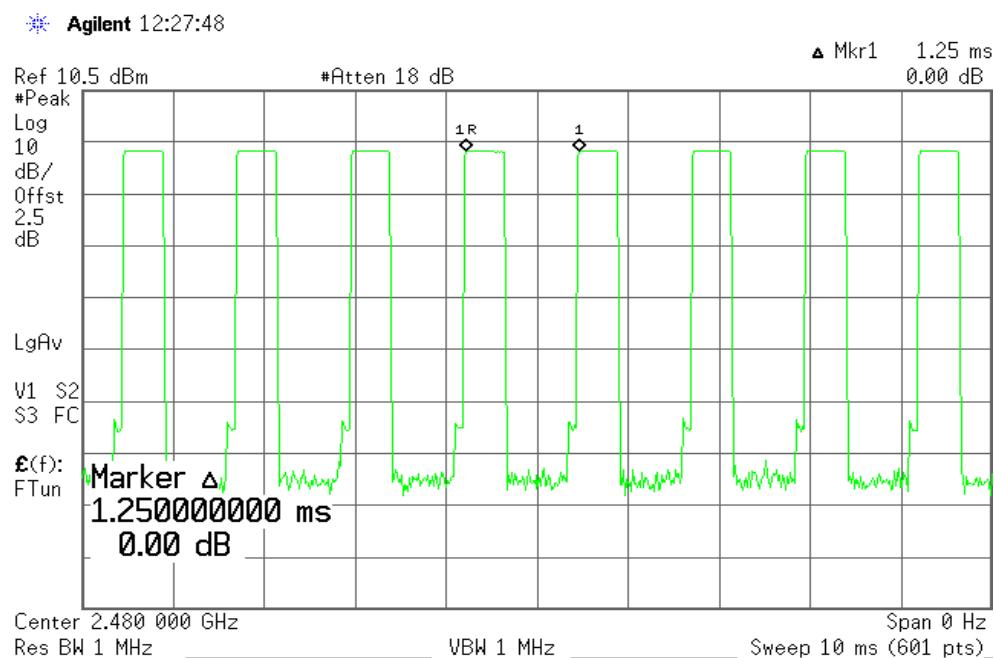
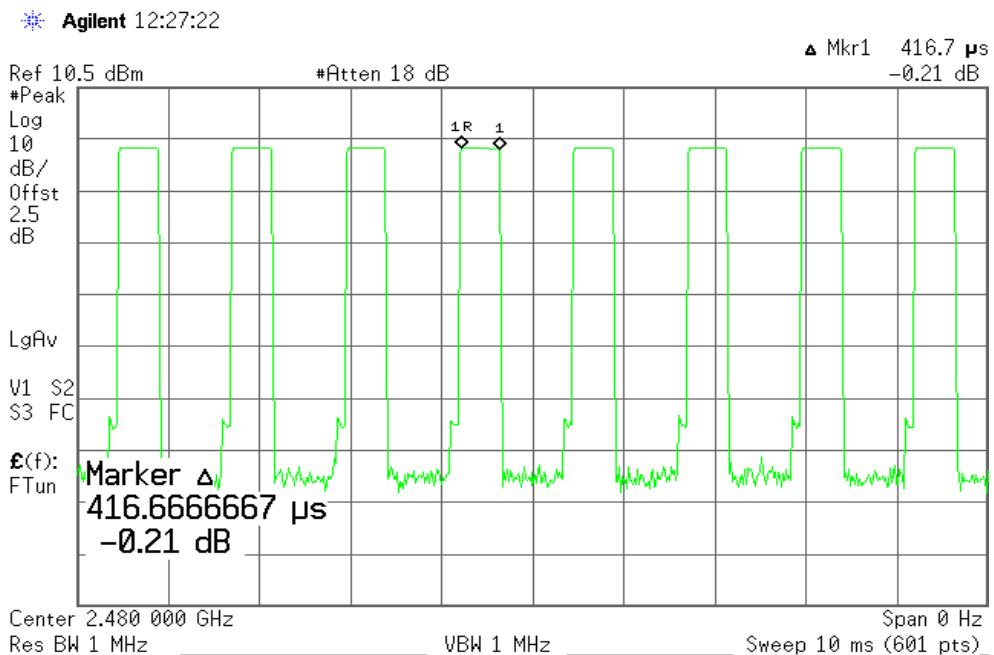
The Results are not be greater than 0.4 seconds.

Please refer the graph as below:

**Channel 0: 2. 402GHz**

**Channel 39: 2.441GHz**

## Channel 79: 2.480GHz



## 12 20-dB Bandwidth

Test Requirement:	FCC Part15 C
Test Method:	Based on FCC Part15 Paragraph 15.247
Test Date:	May 31, 2007
Test mode:	The EUT work in test mode(Tx) and test it

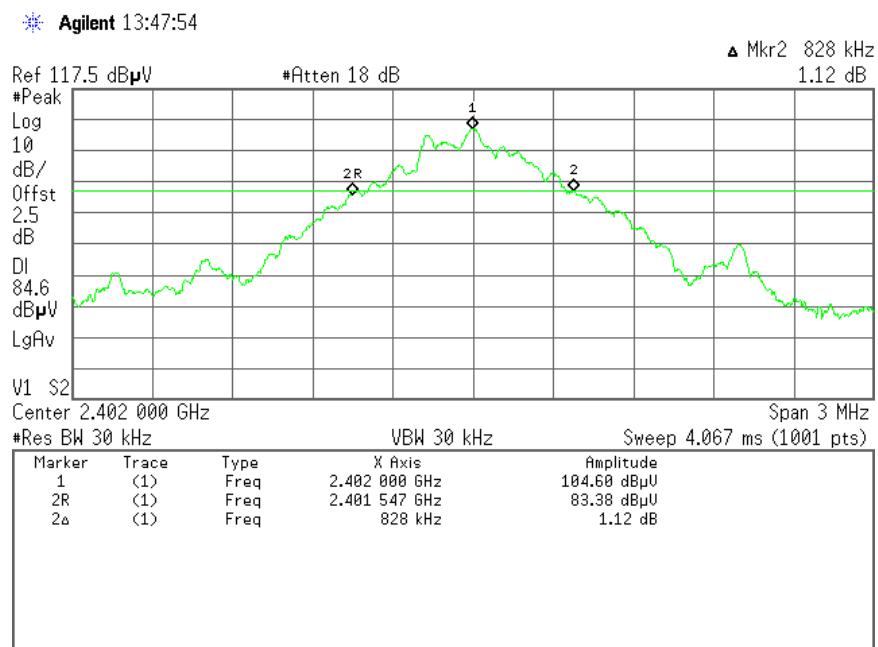
### 12.1 Test Procedure

1. The EUT, peripherals were put on the turntable which table size is 1mX1.5m, table high 0.8m. All set up is according to ANSI C63.4:2003.
2. With the EUT's antenna attached, The EUT's radiated emission power was received by the test antenna which was connected to the spectrum analyser with the START and STOP frequencies set to the EUT's operation band. Measurements were made at 3 meters.
3. The antenna height were varied from 1m to 4m high to find the maximum emission for each frequency.
4. The bandwidth of the fundamental frequency was measured by spectrum analyser with 30kHz RBW and 30kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power 20dB.

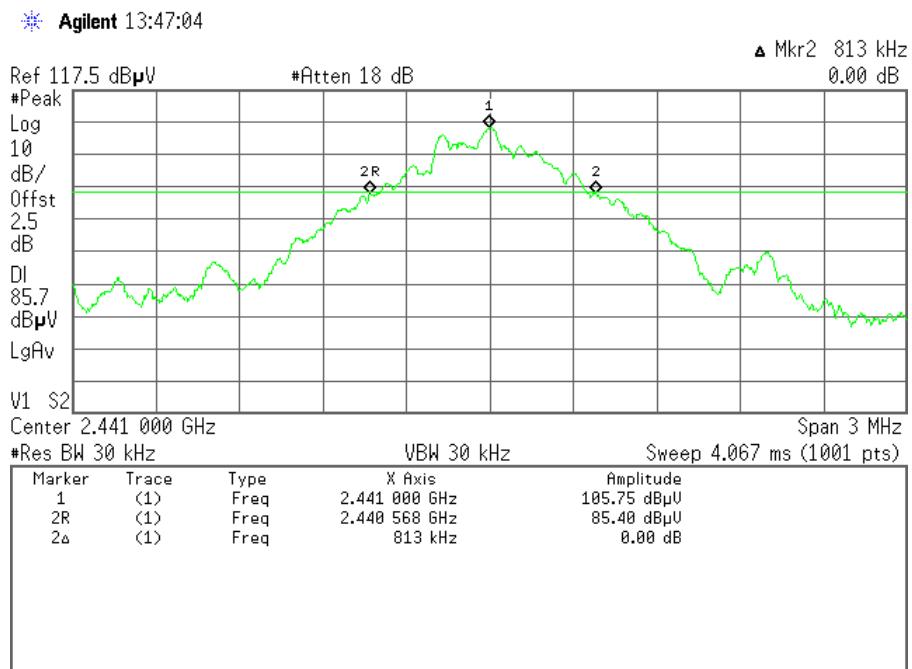
## 12.2 Test Result

Please refer the graph as below:

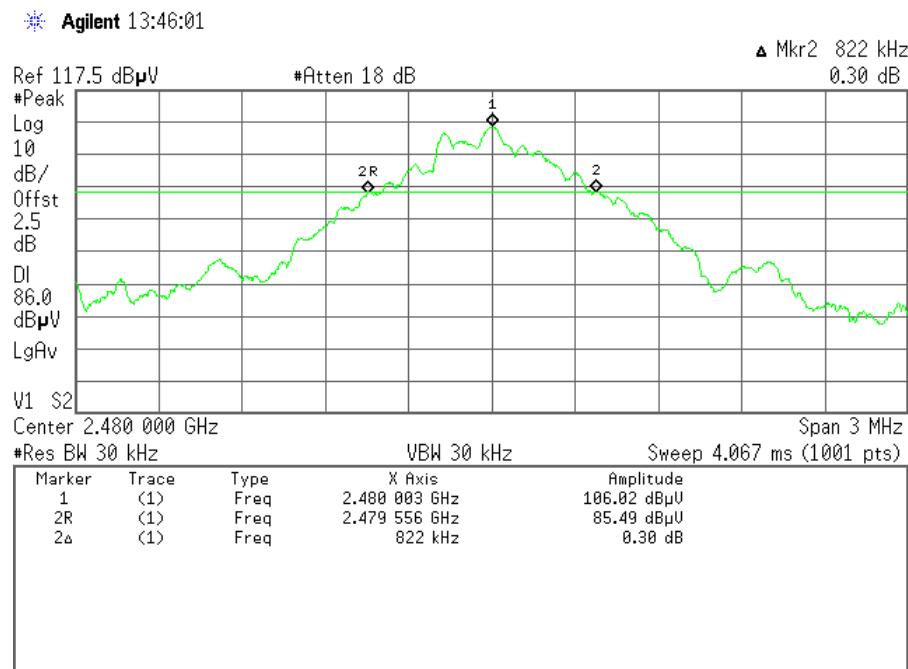
2.402GHz



2.441GHz



2.480GHz



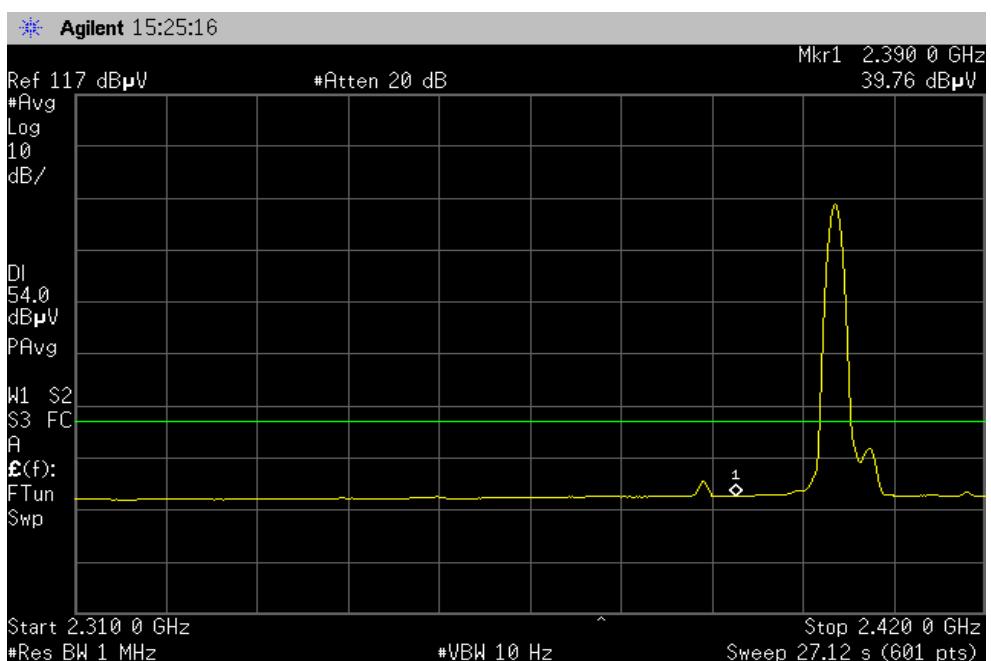
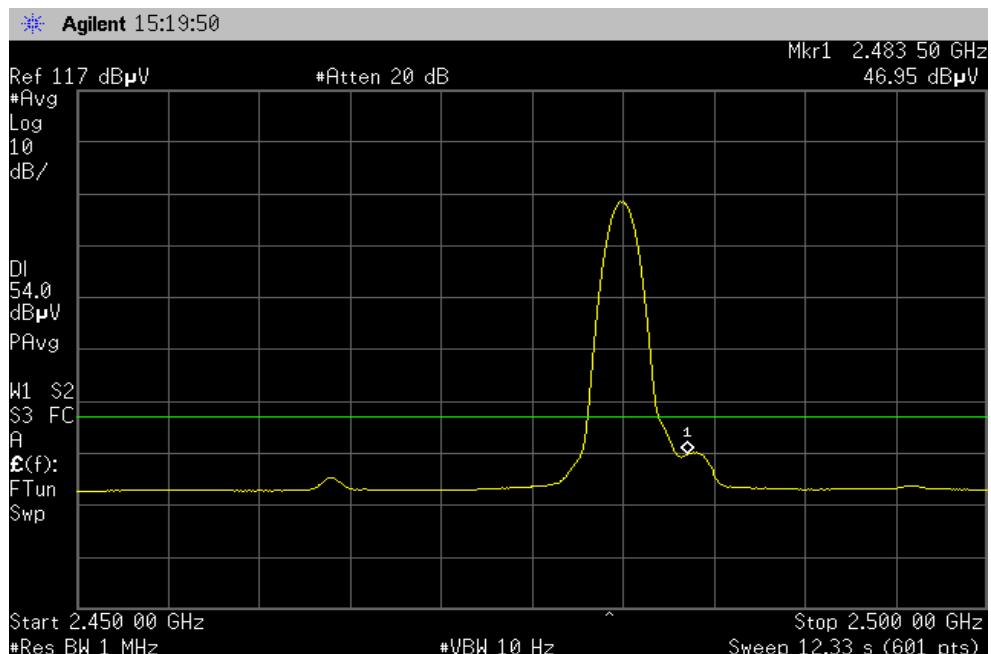
## 13 Radiated spurious emissions into adjacent restricted band

Test Requirement:	FCC Part15 Paragraph 15.205
Test Method:	Based on FCC Part 15 Paragraph 15.247
Test Date:	May 31, 2007
Requirements:	The EUT work in test mode(Tx) and test it

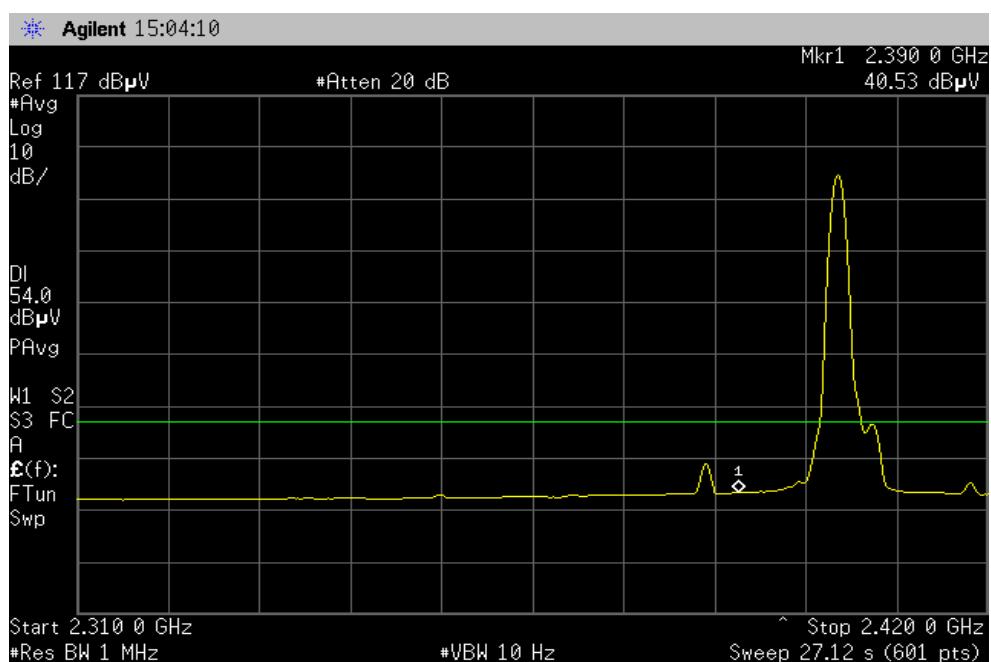
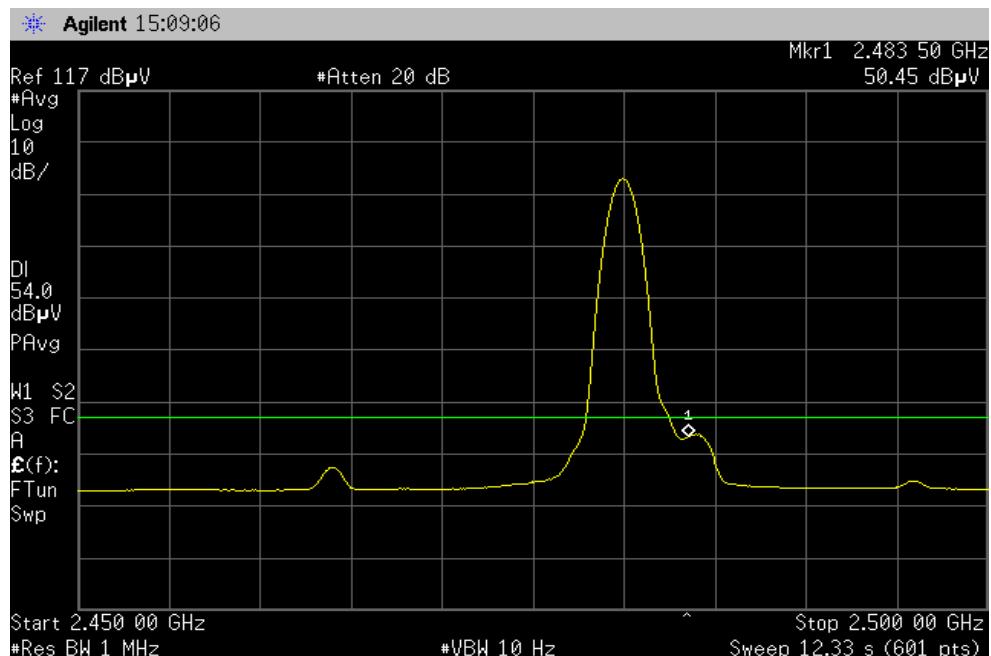
**Requirements:**emissions that fall in the restricted bands(15.205).Above 1000MHz, compliance with the emissions limits in section 15.209 shall be demonstrated based on the average value of the measured emissions,The provisions in section 15.35apply to these measurements.

**Test procedure:**An in band field strength measurement of the fundamental emission using the RBW and detector function required by C63.4-2003 and FCC Rules.The procedure was repeated with an average detector and a plot made.The calculated field strength in the adjacent restricted band is presented below.

## Horizontal bandedge/ restricted band

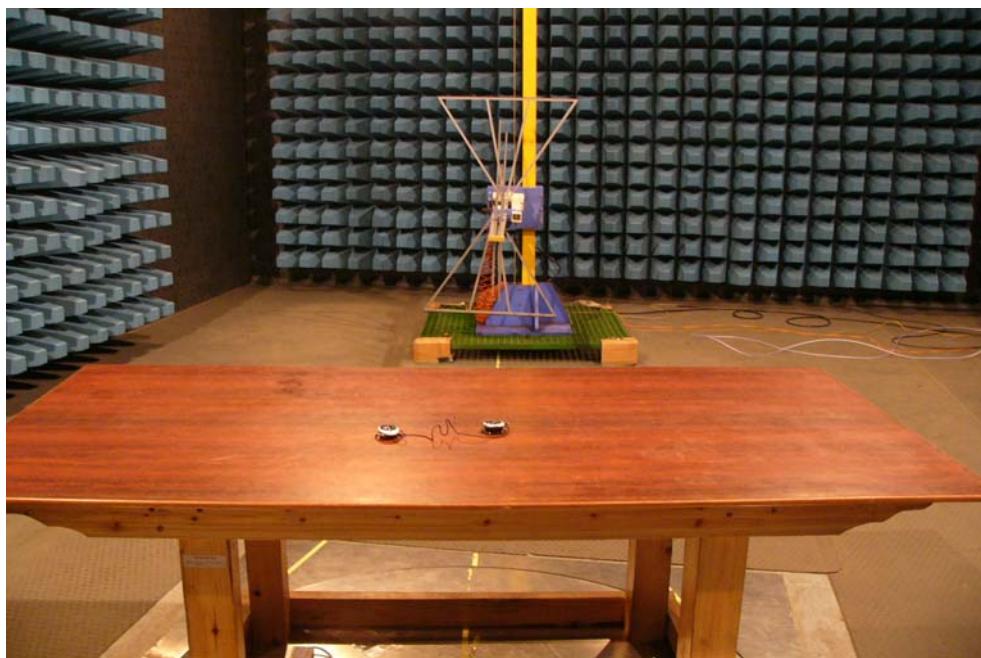


## Vertical bandedge and restricted band

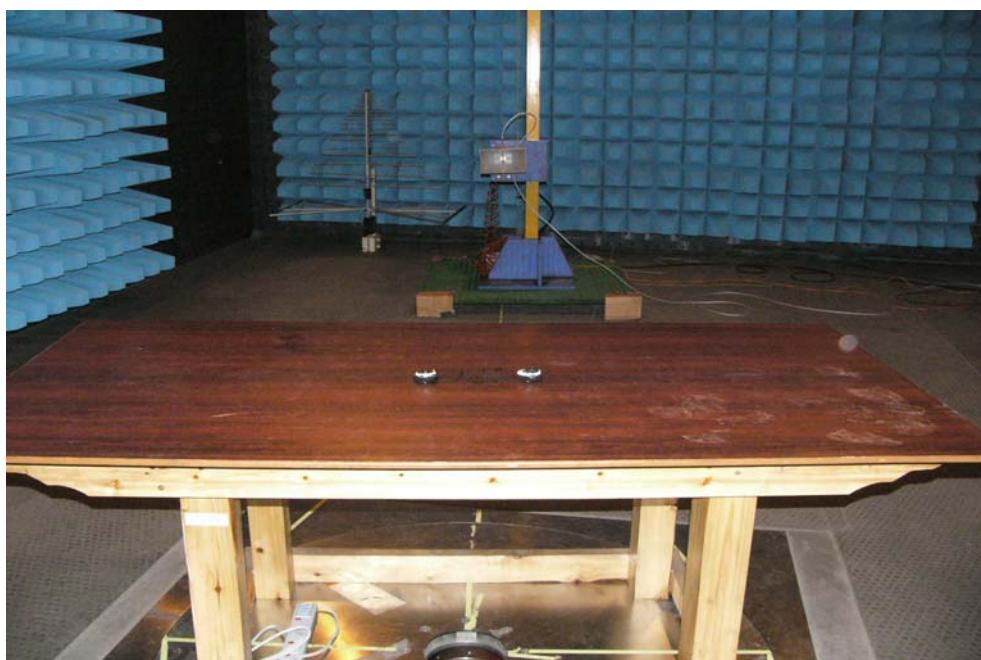


## 14 Photographs of Testing

### 14.1 Radiation Emission Test View For 30MHz-1000MHz



### 14.2 Radiation Emission Test View For 1GHz-25GHz



## 15 Photographs - Constructional Details

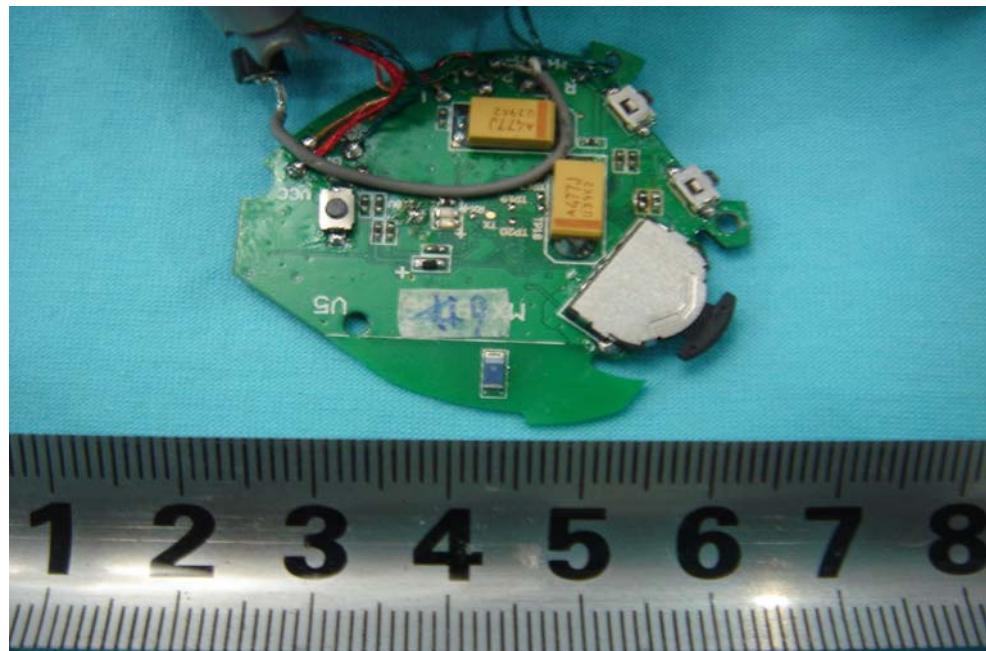
### 15.1 EUT - Front View



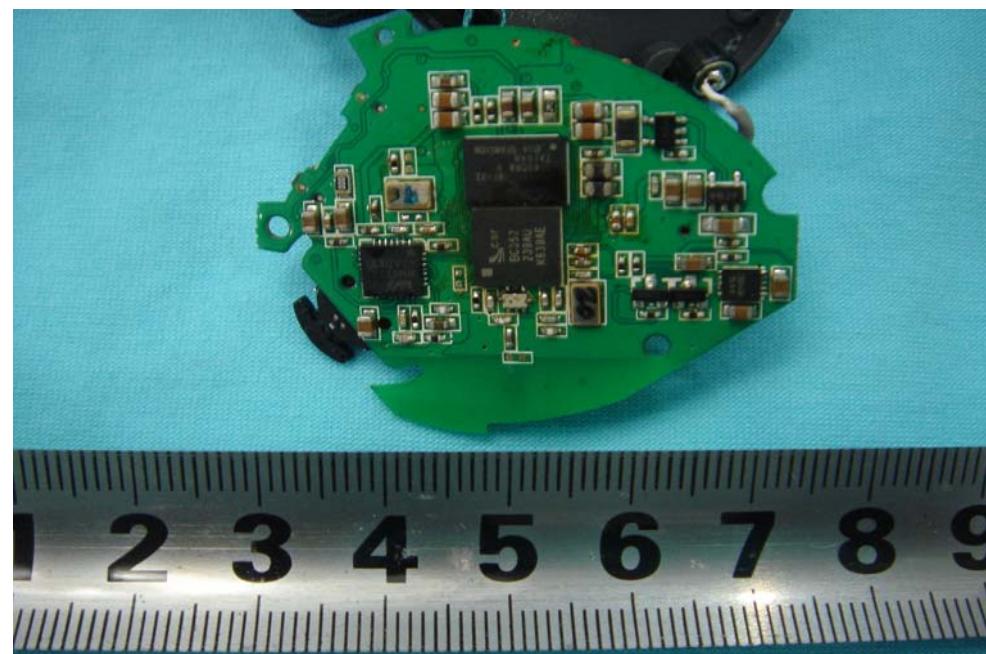
### 15.2 EUT - Back View



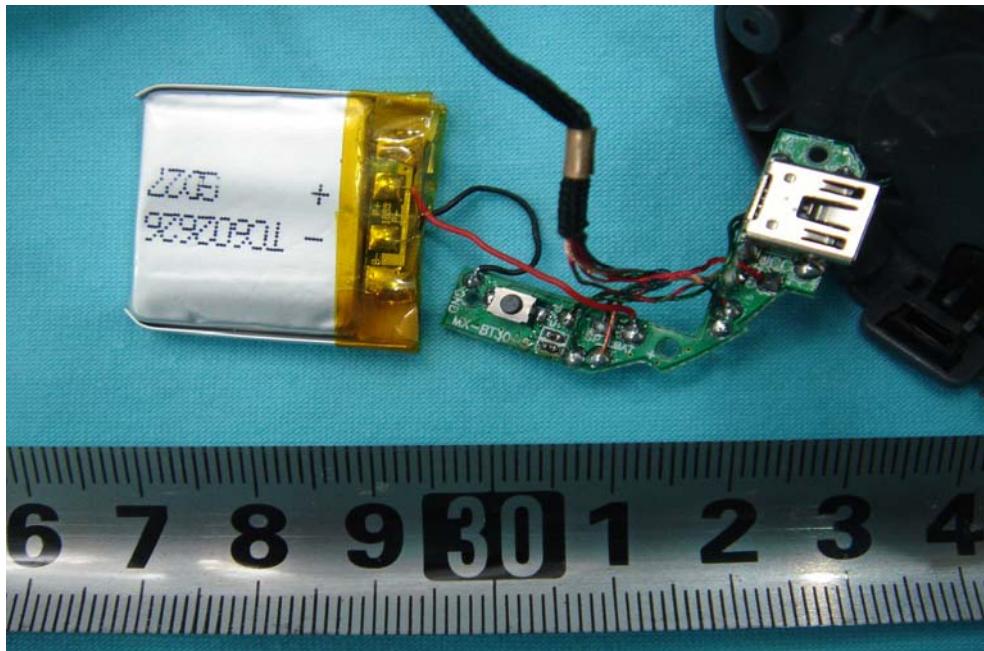
### 15.3 PCB1 – Front View



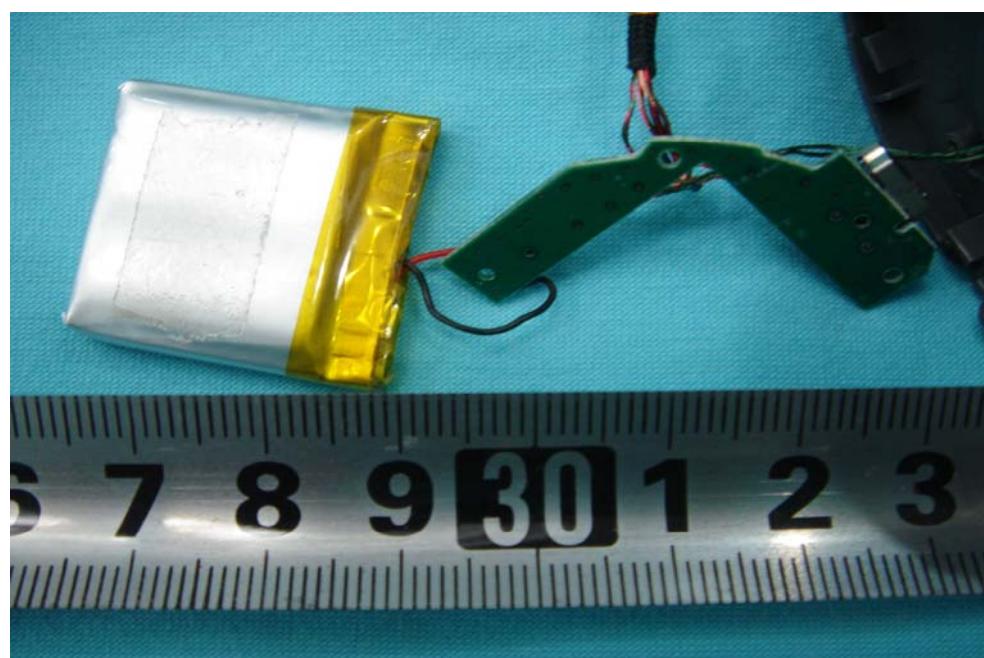
### 15.4 PCB 1- Back View



### 15.5 PCB 2- Front View



### 15.6 PCB 2- Back View



## 16 FCC ID Label

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.

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT  
EUT Bottom View/proposed FCC Mark Location

