



## **STC Test Report**

Date : 2011-03-23

Page 1 of 36

No. : HM165758

**Applicant (C01729):**

MASTER GOLD MANUFACTURING LTD  
Flat A, 11/F., Hung Fuk Fty Bldg., 60 Hung To Rd., Kwun  
Tong, Kln

**Manufacturer:**

CITYSPEED MFG.LTD  
Flat C08 Feng Huang District. Fuyong Baoan Shenzhen

**Description of Sample(s):**

Product: WIRELESS SPEAKER SYSTEM FOR  
IPOD + IPHONE  
Brand Name: ILIVE  
Model Number: ISP801B  
FCC ID: ZBH801SPEAKER

**Date Sample(s) Received:**

2011-02-14

**Date Tested:**

2011-02-15 to 2011-03-8

**Investigation Requested:**

Perform ElectroMagnetic Interference measurement in  
accordance with FCC 47CFR [Codes of Federal Regulations]  
Part 15: 2010 and ANSI C63.4:2003 for FCC Certification.

**Conclusion(s):**

The submitted product COMPLIED with the requirements of  
Federal Communications Commission [FCC] Rules and  
Regulations Part 15. The tests were performed in accordance  
with the standards described above and on Section 2.2 in this  
Test Report.

**Remark(s):**

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Dr. LEE Kam Chuen  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

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## **STC Test Report**

Date : 2011-03-23

No. : MH184982

Page 2 of 36

### **CONTENT:**

Cover  
Content

Page 1 of 36  
Page 2 of 36

#### **1.0 General Details**

- 1.1 Test Laboratory
- 1.2 Equipment Under Test [EUT]  
Description of EUT operation
- 1.3 Date of Order
- 1.4 Submitted Sample
- 1.5 Test Duration
- 1.6 Country of Origin

Page 3 of 366  
Page 3 of 36

Page 3 of 36

Page 3 of 36

Page 3 of 36

Page 3 of 36

#### **2.0 Technical Details**

- 2.1 Investigations Requested
- 2.2 Test Standards and Results Summary

Page 4 of 36

Page 4 of 36

#### **3.0 Test Results**

- 3.1 Emission

Page 5 – 31 of 36

#### **Appendix A**

List of Measurement Equipment

Page 32 of 36

#### **Appendix B**

Photographs

Page 33 - 36 of 36

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## **STC Test Report**

Date : 2011-03-23

Page 3 of 36

No. : MH184982

### **1.0 General Details**

#### **1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.  
EMC Laboratory  
10 Dai Wang Street, Taipo Industrial Estate  
New Territories, Hong Kong

#### **1.2 Equipment Under Test [EUT] Description of Sample(s)**

Product: WIRELESS SPEAKER SYSTEM FOR IPOD + IPHONE  
Manufacturer: CITYSPEED MFG.LTD  
Flat C08 Feng Huang District. Fuyong Baoan Shenzhen  
Brand Name: ILIVE  
Model Number: ISP801B  
Input Voltage: The AC/DC Adaptor used for the tests was provided by the  
applicant with the following details: Two pins (Live / Neutral)  
only adaptor, Model Number: HNK075120U, Input: 100-  
240Va.c. 50/60Hz 0.5A, Output: 7.5Vd.c. 1A.  
And 6Vd.c. ("D" size battery×4)

##### **1.2.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a MASTER GOLD MANUFACTURING LTD,  
WIRELESS SPEAKER SYSTEM FOR IPOD + IPHONE, it is Audio System, modulation by  
IC; and type is frequency hopping speed spectrum Modulation.

#### **1.3 Date of Order**

2011-02-14

#### **1.4 Submitted Sample(s):**

1 Sample

#### **1.5 Test Duration**

2011-03-04

#### **1.6 Country of Origin**

China

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## STC Test Report

Date : 2011-03-23

Page 4 of 36

No. : MH184982

### 2.0 Technical Details

#### 2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2010 Regulations and ANSI C63.4:2003 for FCC Certification.

#### 2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Output Power of Fundamental Emissions	FCC 47CFR 15.247(b)(1)	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF Conduct Spurious Emission	FCC 47CFR 15.247(c)	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Spurious Emissions	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AC Mains Conducted Emissions	FCC 47CFR 15.207	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Operating Channel	FCC 47CFR 15.247(a)(2)(b)(1)	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Band-edge compliance of Conducted Emission	FCC 47CFR 15.247©	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel Separation	FCC 47CFR 15.247(a)(1)	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pseudorandom Hopping Algorithm	FCC 47CFR 15.247(a)(1)	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF Exposure compliance	FCC 47CFR 1.1307, 2.1091, 2.1093	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time of Occupancy	FCC 47CFR 15.247(a)(1)(iii)	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20dB Bandwidth	FCC 47CFR 15.247(a)(2)	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: N/A – Not Applicable

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## STC Test Report

Date : 2011-03-23

Page 5 of 36

No. : MH184982

### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Maximum Peak Output Power**

Test Requirement:	FCC 47CFR 15.247(b)(1)
Test Method:	N/A
Test Date:	2011-03-01
Mode of Operation:	Tx mode

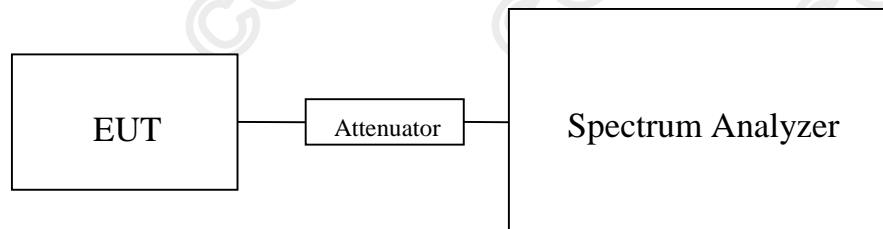
#### **Test Method:**

The RF output of the EUT was connected to the spectrum analyzer. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in dBm.

#### **Spectrum Analyzer Setting:**

RBW = 3 MHz, VBW = 3MHz, Sweep = Auto, Span = 10MHz  
Detector = Peak, Trace = Max. hold

#### **Test Setup:**



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## STC Test Report

Date : 2011-03-23

Page 6 of 36

No. : MH184982

### **Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:**

The maximum peak output power shall not exceed the following limits:  
For frequency hopping systems employing at least 75 hopping channels: 1 Watt  
For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 Watts  
For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt

### **Results of Tx Mode (2404.0 MHz to 2476.0MHz) : Pass (TX Unit)** **Maximum conducted output power**

Transmitter Frequency (MHz)	Maximum conducted output power (mW)
2404	48.7

Transmitter Frequency (MHz)	Maximum conducted output power (mW)
2440	75.4

Transmitter Frequency (MHz)	Maximum conducted output power (mW)
2476	82.8

Limit: 0.125W (125mW)

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB  
1GHz to 18GHz 1.7dB

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## STC Test Report

Date : 2011-03-23

Page 7 of 36

No. : MH184982

### 3.1.2 Radiated Spurious Emissions

Test Requirement: FCC 47CFR 15.209  
Test Method: ANSI C63.4:2003  
Test Date: 2011-03-01  
Mode of Operation: Tx mode

#### Test Method:

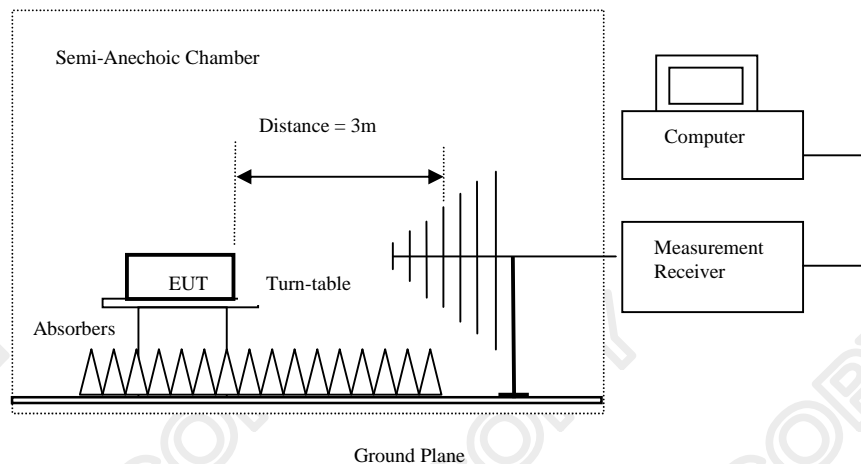
The sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\* Semi-anechoic chamber located on the G/F of "The Hong Kong Standards and Testing Centre Ltd." with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

#### Spectrum Analyzer Setting:

Above 1GHz – RBW = 3 MHz, VBW = 3MHz,  
Below 1GHz to 30MHz – RBW = 120kHz, VBW = 120kHz  
Below 30MHz to 9kHz – RBW = 10kHz, VBW = 30kHz  
Sweep = Auto, Span = Fully capture the emissions being measured, Detector = Peak,  
Trace = Max. hold

#### Test Setup:



Absorbers placed on top of the ground plane are for measurements above 1000MHz only.

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## STC Test Report

Date : 2011-03-23

Page 8 of 36

No. : MH184982

### Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	[ $\mu$ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### Result of Tx Mode (CH1) (9kHz – 30MHz): Pass

Emissions detected are more than 20 dB below the limit line(s)

### Result of Tx Mode(CH1): Pass

Field Strength of Harmonic Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
MHz	Level @ 3m	Factor	Strength	@ 3m		Polarity
	dB $\mu$ V					
4808.0	12.7	41.9	54.6	74.0	-19.4	Horizontal
4808.0	16.5	41.9	58.4	74.0	-15.6	Vertical
7212.0	3.2	47.8	51.0	74.0	-23.0	Horizontal
7212.0	5.6	47.8	53.4	74.0	-20.6	Vertical

Field Strength of Harmonic Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
MHz	Level @ 3m	Factor	Strength	@ 3m		Polarity
	dB $\mu$ V					
4808.0	5.2	41.9	47.1	54.0	-6.9	Horizontal
4808.0	9.0	41.9	50.9	54.0	-3.1	Vertical
7212.0	-4.3	47.8	43.5	54.0	-10.5	Horizontal
7212.0	-1.9	47.8	45.9	54.0	-8.1	Vertical

#### Remarks:

\* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB  
1GHz to 18GHz 5.1dB

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## STC Test Report

Date : 2011-03-23

Page 9 of 36

No. : MH184982

### Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### Result of Tx Mode (CH13) (9kHz – 30MHz): Pass

Emissions detected are more than 20 dB below the limit line(s)

### Result of Tx Mode (CH13): Pass

Field Strength of Harmonic Emissions						
Peak Value						
Frequency MHz	Measured Level @ 3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @ 3m dBμV/m	Margin dBμV/m	E-Field Polarity
4880.0	14.6	42.0	56.6	74.0	-17.4	Horizontal
4880.0	18.1	42.0	60.1	74.0	-13.9	Vertical
7320.0	4.1	48.0	52.1	74.0	-21.9	Horizontal
7320.0	4.9	48.0	52.9	74.0	-21.1	Vertical

Field Strength of Harmonic Emissions						
Average Value						
Frequency MHz	Measured Level @ 3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @ 3m dBμV/m	Margin dBμV/m	E-Field Polarity
4880.0	7.1	42.0	49.1	54.0	-4.9	Horizontal
4880.0	10.6	42.0	52.6	54.0	-1.4	Vertical
7320.0	-3.4	48.0	44.6	54.0	-9.4	Horizontal
7320.0	-2.6	48.0	45.4	54.0	-8.6	Vertical

#### Remarks:

- \* Denotes restricted band of operation.  
Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB  
1GHz to 18GHz 5.1dB

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## STC Test Report

Date : 2011-03-23

Page 10 of 36

No. : MH184982

### Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### Result of Tx Mode (CH25) (9kHz – 30MHz): Pass

Emissions detected are more than 20 dB below the limit line(s)

### Result of Tx Mode (CH25): Pass

Field Strength of Harmonic Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
MHz	Level @ 3m	Factor	Strength	@ 3m		Polarity
	dBμV	dB/m	dBμV/m	dBμV/m	dBμV/m	
4952.0	14.0	42.0	56.0	74.0	-18.0	Horizontal
4952.0	16.3	42.0	58.3	74.0	-15.7	Vertical
7428.0	2.3	48.2	50.5	74.0	-23.5	Horizontal
7428.0	4.8	48.2	53.0	74.0	-21.0	Vertical

Field Strength of Harmonic Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
MHz	Level @ 3m	Factor	Strength	@ 3m		Polarity
	dBμV	dB/m	dBμV/m	dBμV/m	dBμV/m	
4952.0	6.5	42.0	48.5	54.0	-5.5	Horizontal
4952.0	8.8	42.0	50.8	54.0	-3.2	Vertical
7320.0	-5.2	48.2	43.0	54.0	-11.0	Horizontal
7320.0	-2.7	48.2	45.5	54.0	-8.5	Vertical

#### Remarks:

\* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB  
1GHz to 18GHz 5.1dB

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## STC Test Report

Date : 2011-03-23

Page 11 of 36

No. : MH184982

### Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	[ $\mu$ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### Result of Rx Mode (9kHz – 30MHz): Pass

Emissions detected are more than 20 dB below the limit line(s)

### Result of Rx Mode (Above 30MHz): Pass

Emissions detected are more than 20 dB below the limit line(s)

### Result of Communication Mode with iPod dock: Pass

Field Strength of Fundamental Emissions						
Quasi-Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
MHz	Level @ 3m	Factor	Strength	@ 3m		Polarity
	$\text{dB}\mu\text{V}$	$\text{dB/m}$	$\text{dB}\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
172.1	27.7	10.2	37.9	43.5	-5.6	Vertical
384.0	23.0	17.3	40.3	46.0	-5.7	Vertical
417.7	24.0	18.8	42.8	46.0	-3.2	Horizontal
466.9	23.2	18.9	42.1	46.0	-3.9	Horizontal
491.5	22.7	19.2	41.9	46.0	-4.1	Horizontal
528.0	20.9	20.6	41.5	46.0	-4.5	Vertical

Remarks:

\* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB  
1GHz to 18GHz 5.1dB

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## STC Test Report

Date : 2011-03-23

Page 12 of 36

No. : MH184982

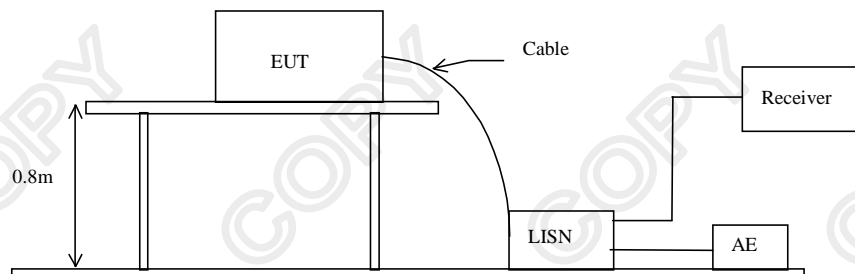
### **3.1.3 Conducted Emissions (0.15MHz to 30MHz)**

Test Requirement: FCC 47CFR 15.207  
Test Method: ANSI C63.4:2003  
Test Date: 2011-03-01  
Mode of Operation: Communication Mode with iPod dock

#### **Test Method:**

The test was performed in accordance with ANSI C63.4: 2003, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

#### **Test Setup:**



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## STC Test Report

Date : 2011-03-23

Page 13 of 36

No. : MH184982

### Limit for Conducted Emissions (FCC 47 CFR 15.207):

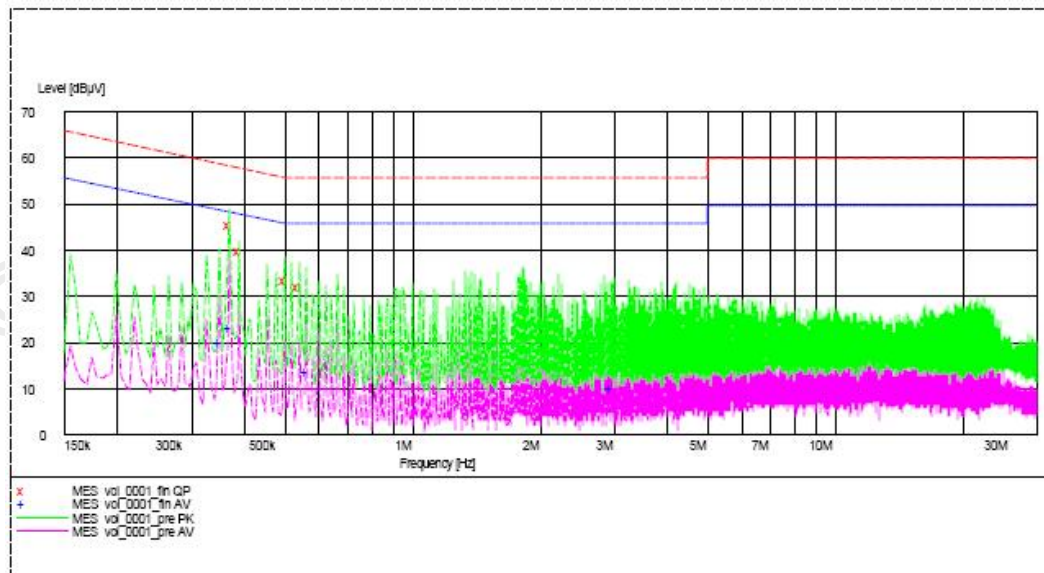
Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

### Results of Communication Mode with iPod dock (L): Pass

Please refer to the following diagram for individual results.



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## STC Test Report

Date : 2011-03-23

Page 14 of 36

No. : MH184982

### Results of Communication Mode with iPod dock (L): Pass

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB $\mu$ V	Limit dB $\mu$ V	Level dB $\mu$ V	Limit dB $\mu$ V
Live	0.350	-*-	-*-	20.1	49.0
Live	0.370	45.4	59.0	23.3	49.0
Live	0.390	40.0	58.0	-*-	-*-
Live	0.500	33.7	56.0	-*-	-*-
Live	0.540	32.2	56.0	-*-	-*-
Live	0.560	-*-	-*-	13.7	46.0
Live	2.950	-*-	-*-	10.3	46.0

#### Remarks:

Calculated measurement uncertainty : 3.97dB

-\*- Emission(s) that is far below the corresponding limit line.

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## STC Test Report

Date : 2011-03-23

Page 15 of 36

No. : MH184982

### Limit for Conducted Emissions (FCC 47 CFR 15.207):

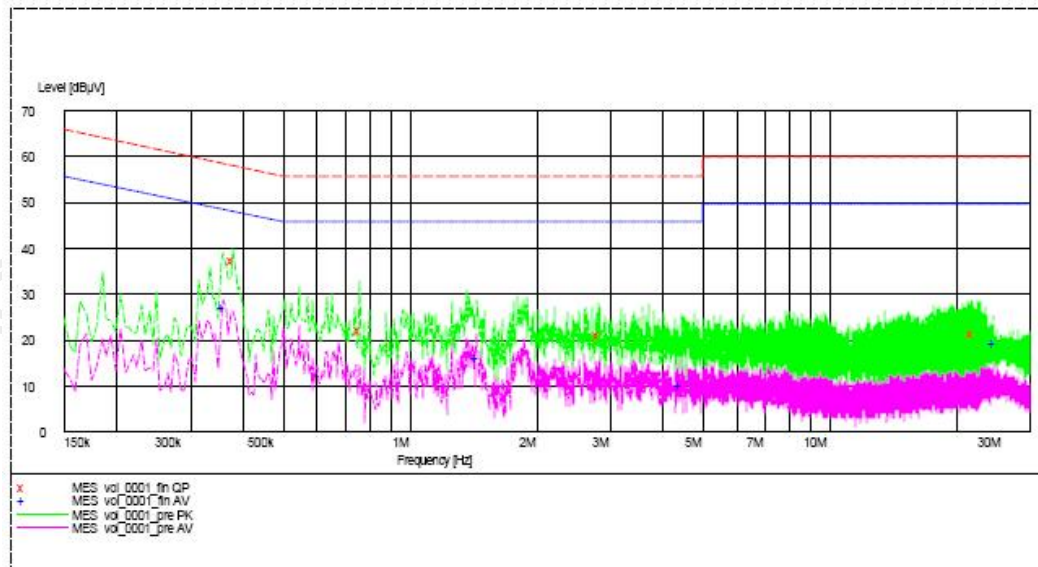
Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

### Results of Communication Mode with iPod dock (N): Pass

Please refer to the following diagram for individual results.



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## STC Test Report

Date : 2011-03-23

Page 16 of 36

No. : MH184982

### Results of Communication Mode with iPod dock (N): Pass

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB $\mu$ V	Limit dB $\mu$ V	Level dB $\mu$ V	Limit dB $\mu$ V
Neutral	0.360	-*-	-*-	27.2	49.0
Neutral	0.380	37.6	58.0	-*-	-*-
Neutral	0.760	22.1	56.0	-*-	-*-
Neutral	1.445	-*-	-*-	16.2	46.0
Neutral	2.820	21.3	56.0	-*-	-*-
Neutral	4.430	-*-	-*-	10.3	46.0
Neutral	21.845	21.6	60.0	-*-	-*-
Neutral	24.575	-*-	-*-	19.5	50.0

#### Remarks:

Calculated measurement uncertainty : 3.97dB

-\*- Emission(s) that is far below the corresponding limit line.

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## **STC Test Report**

Date : 2011-03-23

Page 17 of 36

No. : MH184982

### **3.1.4 20dB Bandwidth Measurement**

Test Requirement: FCC 47CFR 15.247(a)(1)  
Test Method: ANSI C63.4:2003  
Test Date: 2010-11-29  
Mode of Operation: Tx Mode

#### **Test Method:**

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.

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## STC Test Report

Date : 2011-03-23

Page 18 of 36

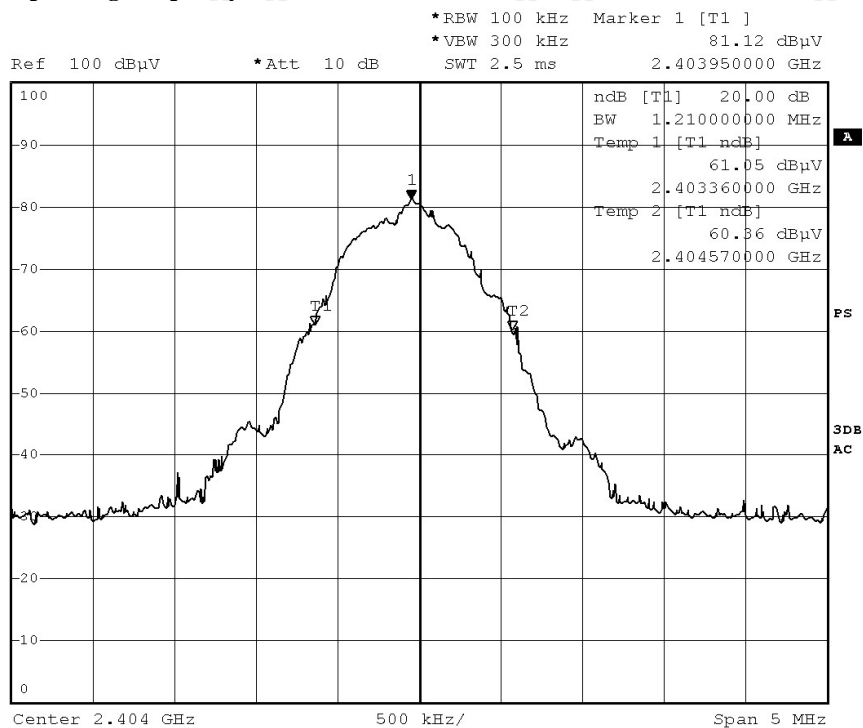
No. : MH184982

Fundamental Frequency [MHz]	20dB Bandwidth [kHz]	FCC Limits [MHz]
2403.95	1210	Within 2400-2483.5

(Lowest Operating Frequency)



1 PK  
MAX



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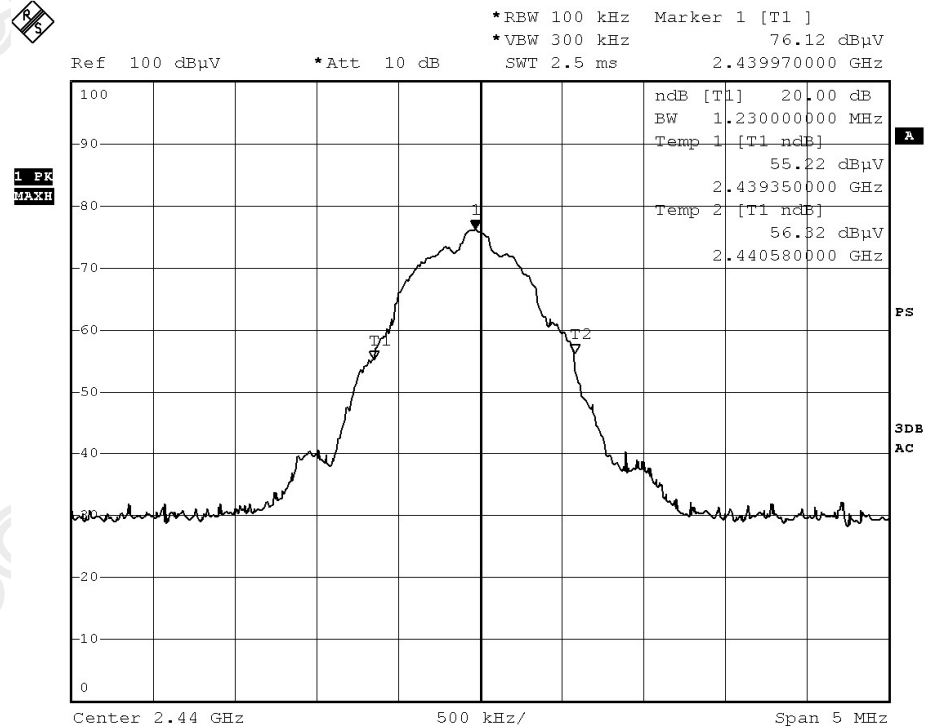
Date : 2011-03-23

Page 19 of 36

No. : MH184982

Fundamental Frequency [MHz]	20dB Bandwidth [kHz]	FCC Limits [MHz]
2439.97	1230	Within 2400-2483.5

### (Mid. Operating Frequency)



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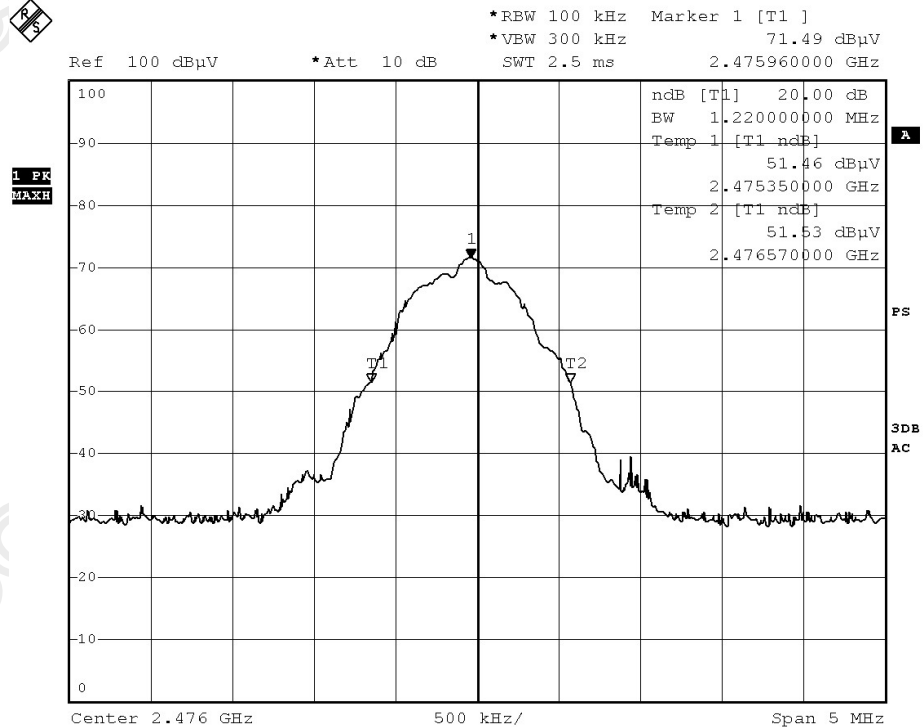
Date : 2011-03-23

Page 20 of 36

No. : MH184982

Fundamental Frequency [MHz]	20dB Bandwidth [kHz]	FCC Limits [MHz]
2475.96	1220	Within 2400-2483.5

### (Highest Operating Frequency)



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## **STC Test Report**

Date : 2011-03-23

Page 21 of 36

No. : MH184982

### **Channel Centre Frequency**

#### **Requirements:**

Frequency hopping system in the 2400-2483.5MHz band shall use at least 15 non-overlapping channels.

<b>Item</b>	<b>Frequency (MHz)</b>	<b>Item</b>	<b>Frequency (MHz)</b>
1	2404	14	2443
2	2407	15	2446
3	2410	16	2449
4	2413	17	2452
5	2416	18	2455
6	2419	19	2458
7	2422	20	2461
8	2425	21	2464
9	2428	22	2467
10	2431	23	2470
11	2434	24	2473
12	2437	25	2476
13	2440	-	-

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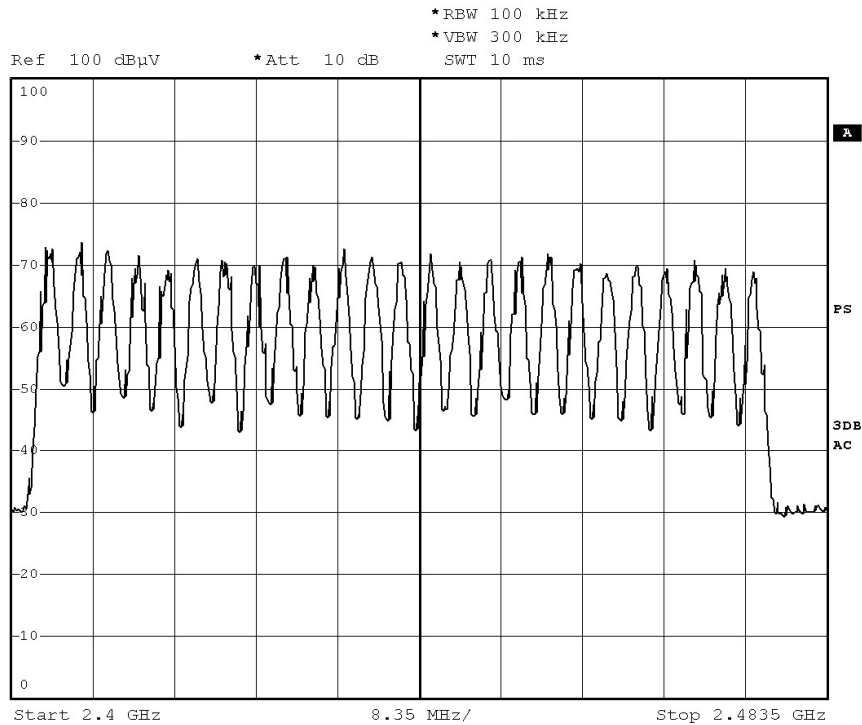
Page 22 of 36

No. : MH184982

Number of Hopping frequencies = 25 Channels



1 PK  
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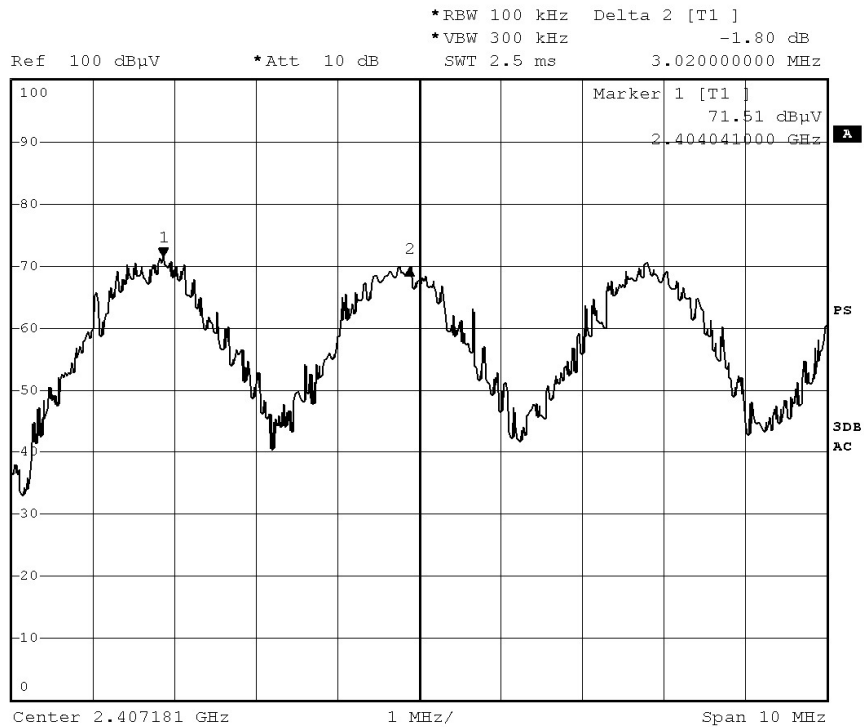
Page 23 of 36

No. : MH184982

### Channel Separation (3020.0KHz)



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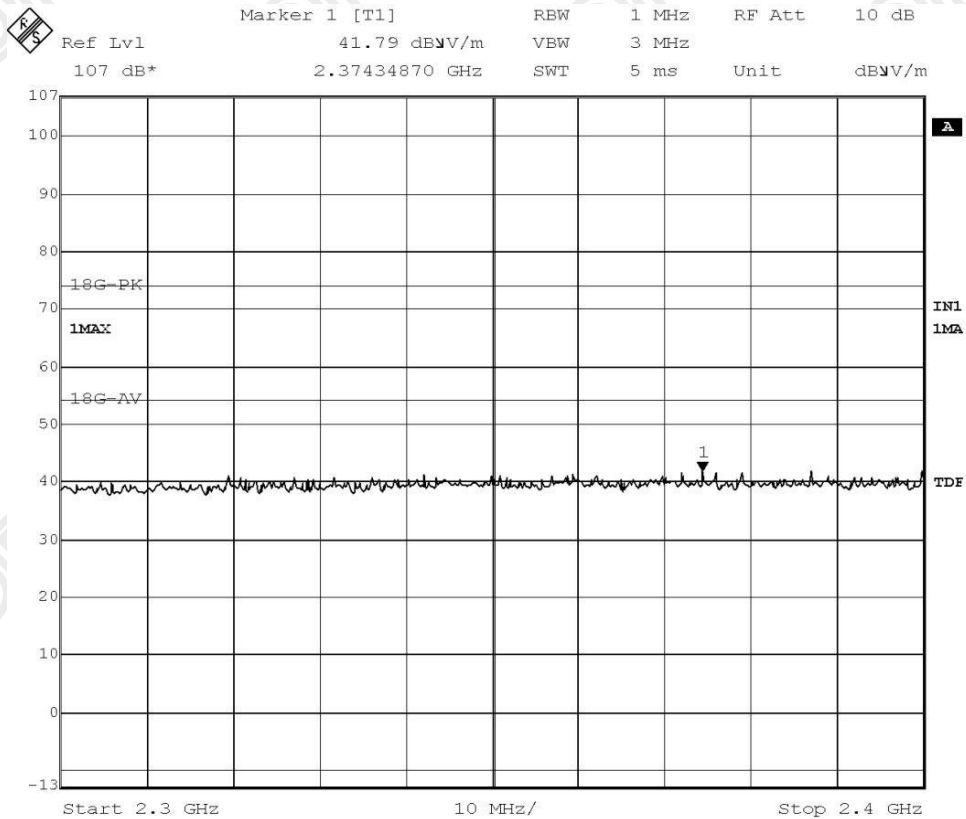
## STC Test Report

Date : 2011-03-23

Page 24 of 36

No. : MH184982

### Band-edge Compliance of RF Radiated Emissions (Lowest)



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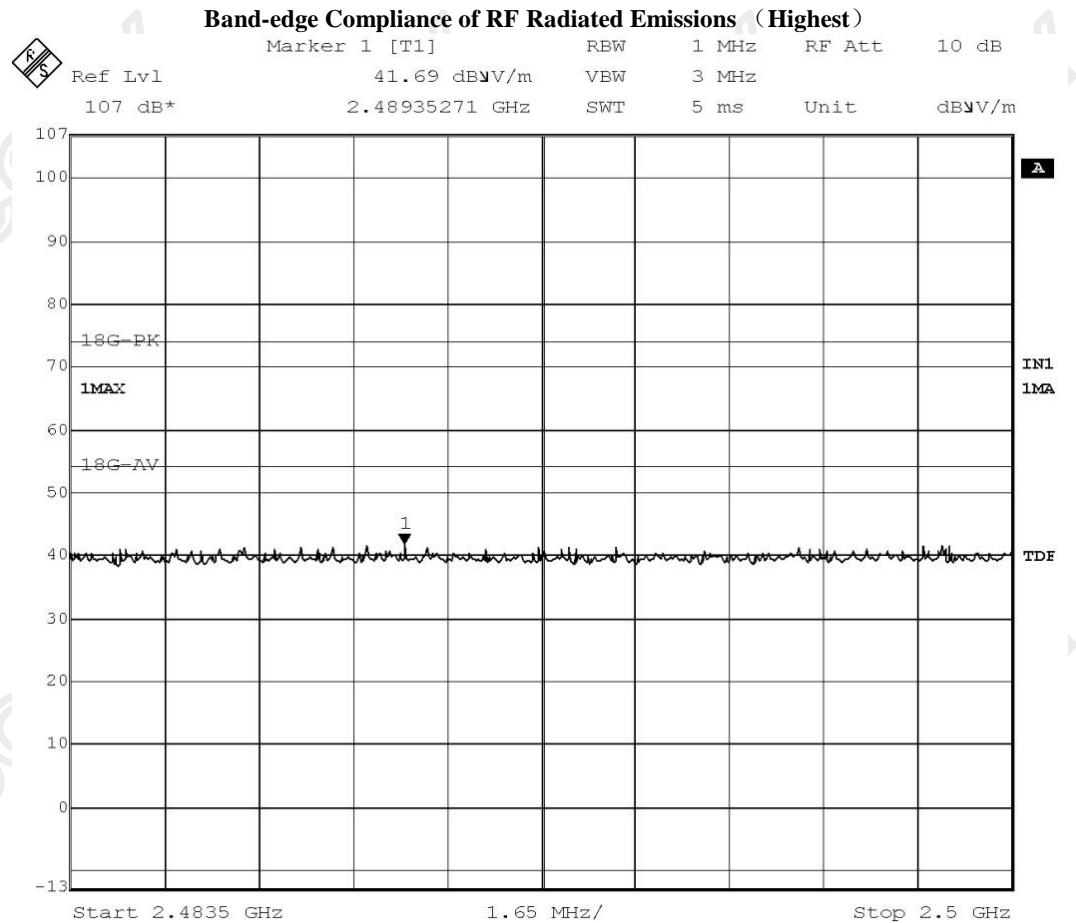


## STC Test Report

Date : 2011-03-23

Page 25 of 36

No. : MH184982



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## **STC Test Report**

Date : 2011-03-23

Page 26 of 36

No. : MH184982

### **Antenna Requirement**

**Test Requirements:** § 15.203

#### **Test Specification:**

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.

#### **Test Results:**

The EUT has 1 Antenna which is permanently attached to the main unit and attached on PCB board, the antenna gain = 1.7dBi. All component install on inside of EUT. User unable to remove or changed the Antenna.

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## **STC Test Report**

Date : 2011-03-23

Page 27 of 36

No. : MH184982

### **Pseudorandom Hopping Algorithm**

#### **Requirements:**

The channel frequencies shall be selected from a pseudorandom ordered list of hopping frequencies. Each frequency must be used equally by the transmitter.

#### **Pseudorandom Frequency Hopping**

The embedded FHSS engine uses 25 hopping frequencies. Each channel frequency is selected from a pseudorandom ordered list of hopping frequencies, from 2404.0MHz to 2476.0MHz with separating in 1230.0 kHz apart from each of the channels. A single data frame is transmitted on each frequency location before skipping to the next hopping frequency in the list.

Typically, the initiation of an FHSS communication is as follows

1. The initiating party sends a request via a predefined frequency or control channel.
2. The receiving party sends a number, known as a seed back to the initiating party.
3. The initiating party sends a synchronization signal acknowledging to the receiving party as it has successfully established a transmission link.
4. The communication begins, and both the receiving and the sending party change their frequencies along an unpredictable hopping sequence with pseudorandom properties.

#### **System Receiver Input Bandwidth**

The receiver bandwidth is equal to the receiver bandwidth in the 25 hopping channel mode, which is 3020.0 kHz. The receiver bandwidth was verified during RF hopping to the relative channel.

#### **Receiver Hopping Capability**

The associated receiver has the ability to shift frequencies in synchronization with the transmitted signals, with they start connect with a same channel and then hop to next channel with a same formula among each other.

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## STC Test Report

Date : 2011-03-23

Page 28 of 36

No. : MH184982

### Occupancy Time

#### Requirements:

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 channel employed.

No requirements for Digital Transmission System.

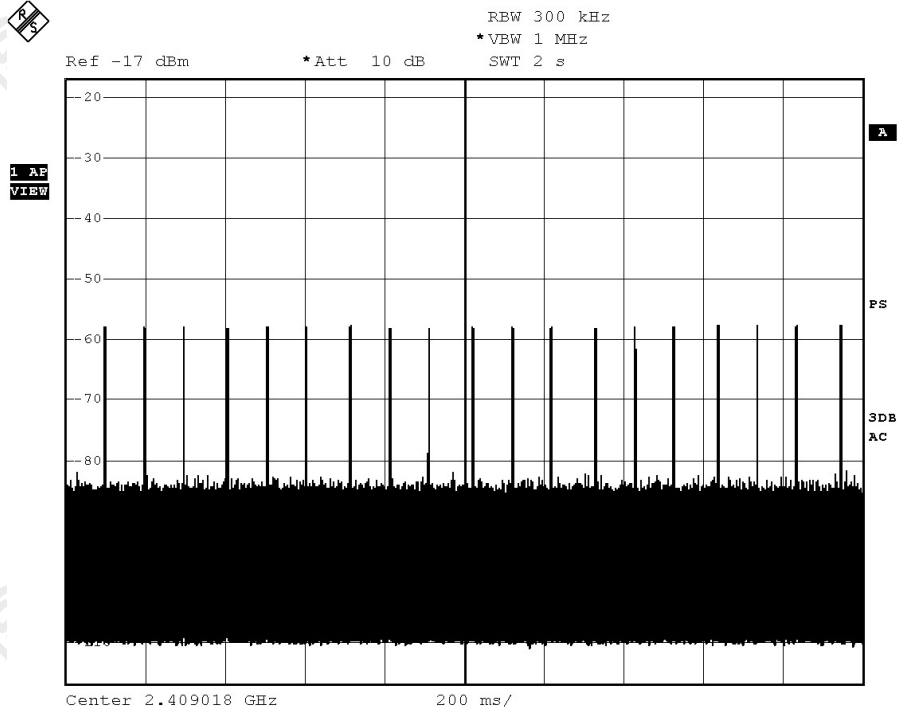
**Measurement Data:** Number of RF channel: 25  
Observed duration of occupancy:  $0.4 \times 25 = 10\text{s}$   
Period observed: 2s  
Duration of long burst: 1.86ms  
Duration of short burst: 140 $\mu\text{s}$

**Time of occupancy:**  $(19 \times 0.00186 + 19 \times 0.00014) / 2\text{s} \times 10 = 0.19$

See fig. A and B.

**Remark:** The Occupancy Time of the Lowest, Middle and Highest operating frequency has been examined and the worst case test result is recorded in this test report.

Fig. A Time between RF Burst



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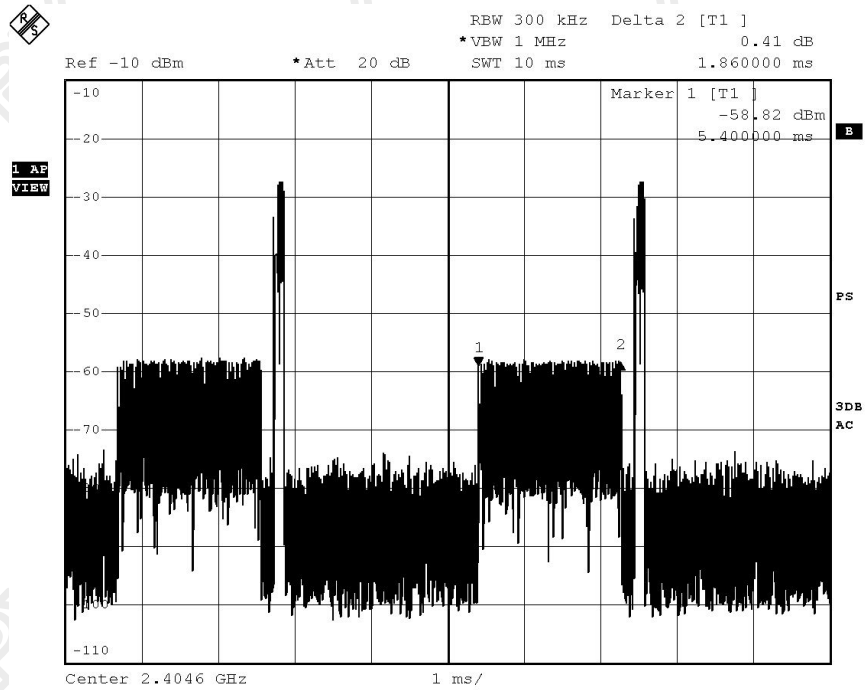
## STC Test Report

Date : 2011-03-23

Page 29 of 36

No. : MH184982

Fig B . RF Burst



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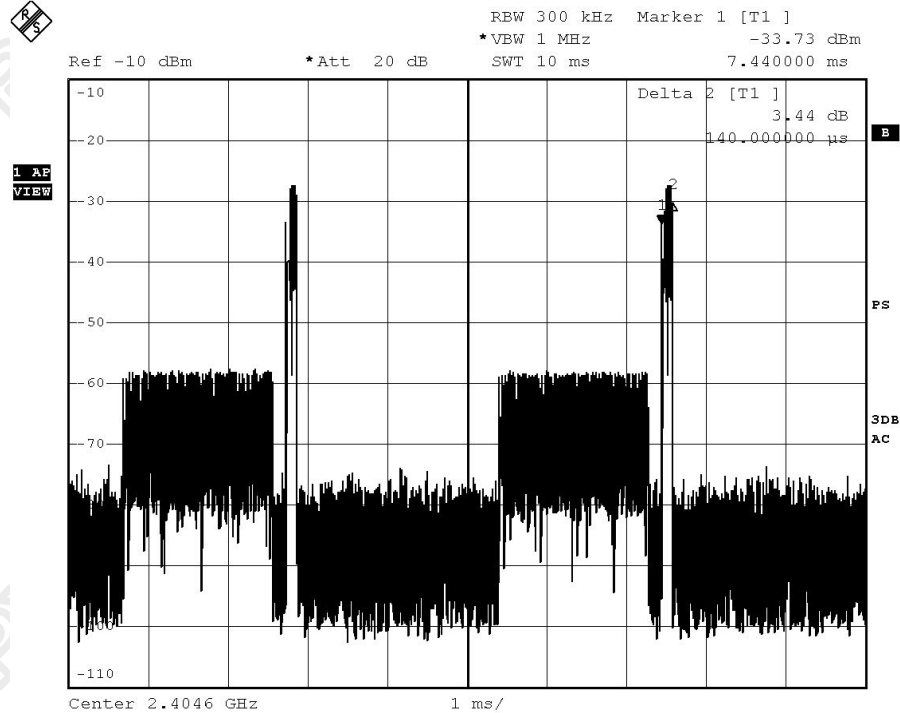
## STC Test Report

Date : 2011-03-23

Page 30 of 36

No. : MH184982

Fig C . RF Burst



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## STC Test Report

Date : 2011-03-23

Page 31 of 36

No. : MH184982

### **RF Exposure**

Test Requirement: FCC 47CFR 15.247(b)(5)

Test Date: 2011-3-03

Mode of Operation: Tx mode

### **Test Method:**

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 levels in excess of the Commission's guidelines.

### **Test Results:**

The EUT complied with the requirement(s) of this section.

EUT meets the requirements of these sections as proven through MPE calculation

The MPE calculation for EUT @ 20cm

Based on the highest P = 82.8 mW

$$\begin{aligned} P_d &= PG / 4\pi R^2 = (82.8 \times 1.479) / 12.566 \times (20)^2 \\ &= (122.461) / 12.566 \times 400 = 122.461 / 5026.4 \\ &= 0.024 \text{ mW/cm}^2 \end{aligned}$$

where:

\* $P_d$  = power density in mW/cm<sup>2</sup>

\* G = Antenna numeric gain (1.479); Log G = g/10 ( g = 1.7dBi ).

\* P = Conducted RF power to antenna ( 82.8 mW).

\* R = Minimum allowable distance.( 20 cm)

\*The power density  $P_d = 0.024 \text{ mW/cm}^2$  is less than  $1 \text{ mW/cm}^2$  (listed MPE limit)

\*The SAR evaluation is not needed ( this is a desk top device,  $R > 20 \text{ cm}$  )

\* The EUT( antenna ) must be 0.2 meters away from the General Population.

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## STC Test Report

Date : 2011-03-23

Page 32 of 36

No. : MH184982

### Appendix A

#### List of Measurement Equipment

##### Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM020	HORN ANTENNA	EMCO	3115	4032	2009/09/11	2011/09/11
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3	--	2010/10/25	2011/11/25
EM174	BICONILOG ANTENNA	EMCO	3142B	1671	2010/02/09	2012/02/09
EM194	BICONILOG ANTENNA	EMCO	3142B	1795	2010/10/06	2012/10/06
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	2011/01/06	2013/01/06
EM229	EMI Test Receiver	R&S	ESIB40	100248	2010/11/02	2011/11/02
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2010/07/01	2011/07/01
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2009/07/26	2011/07/26

#### Remarks:-

CM Corrective Maintenance  
N/A Not Applicable or Not Available  
TBD To Be Determined

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## **STC Test Report**

Date : 2011-03-23

Page 33 of 36

No. : MH184982

### **Appendix B**

#### **Photographs of EUT**

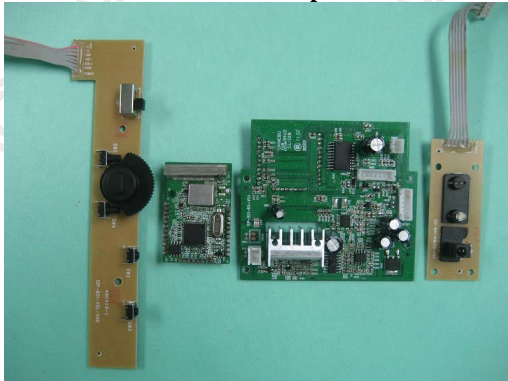
**Front View of the product**



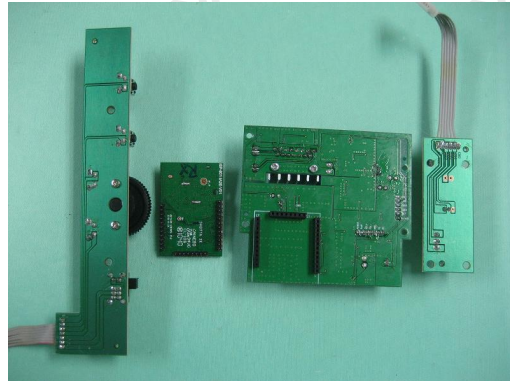
**Rear View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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## **STC Test Report**

Date : 2011-03-23

Page 34 of 36

No. : MH184982

### **Photographs of EUT**

#### **Measurement of Conducted Emission Test Set Up**



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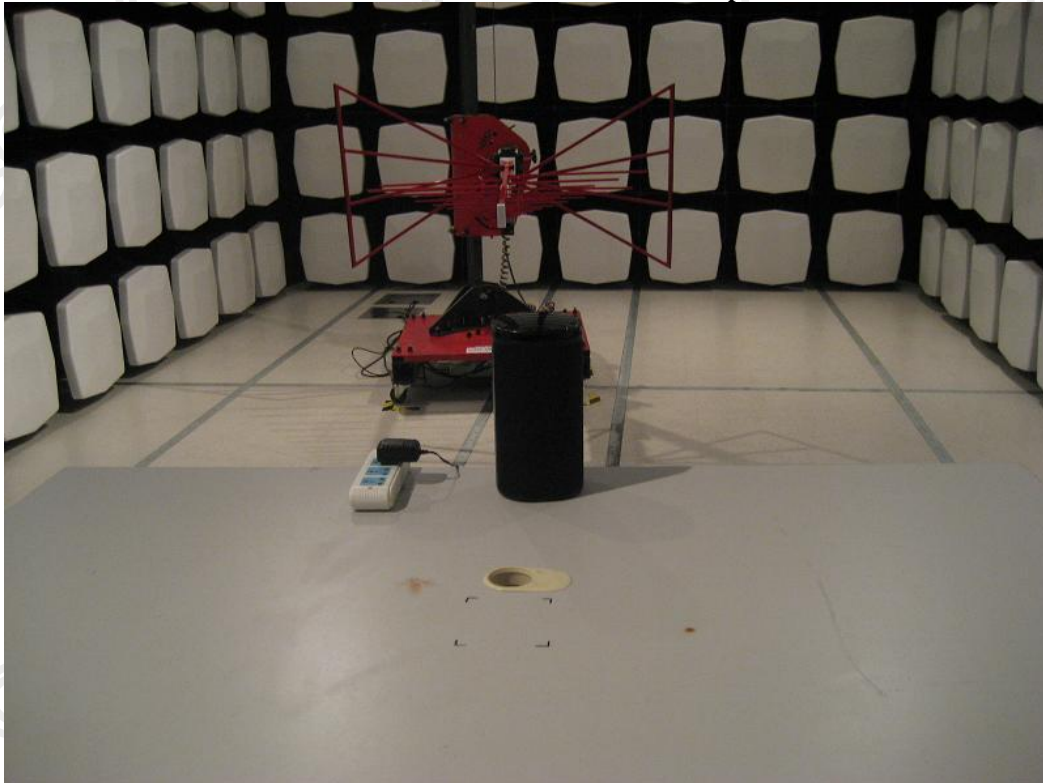
## **STC Test Report**

Date : 2011-03-23

Page 35 of 36

No. : MH184982

**Measurement of Radiated Emission Test Set Up**



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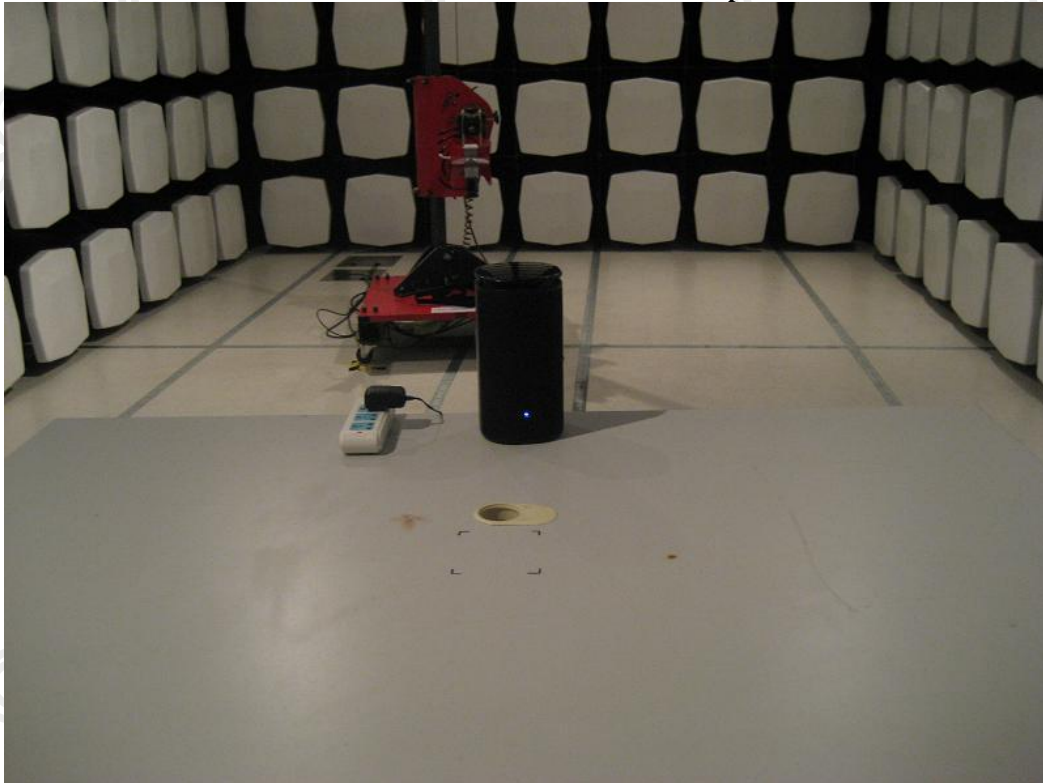
Date : 2011-03-23

Page 36 of 36

No. : MH184982

### **Photographs of EUT**

#### **Measurement of Radiated Emission Test Set Up**



**\*\*\*\*\* End of Test Report \*\*\*\*\***

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

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