



**卓時檢測**  
TIMEWAY TESTING LABORATORY



**ISO/IEC17025 Accredited Lab.**

Report No: FCC 0803197

File reference No: 2008-04-29

Applicant: Gajah International (HK) Co., Ltd.

Product: Wireless Stereo Speaker

Brand Name: N/A

Model No: GD61RC

Test Standards: FCC Part 15 Subpart B: 2006

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated: April 29, 2008

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD**

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 899988**

The 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 No.: 899988.

#### **IC- Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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Test Report Conclusion  
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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD  
Address: East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996

### 1.2 Applicant Details

Applicant: Gajah International (HK) Co., Ltd.  
Address: 9A, Yinxing Block, Huamaoxin Garden, Hongli West Road, Futian District, Shenzhen  
Telephone: +86-755-82970307  
Fax: +86-755-82970571

### 1.3 Description of EUT

Product: Wireless Stereo Speaker  
Manufacturer: Gajah International (HK) Co., Ltd.  
Address: 9A, Yinxing Block, Huamaoxin Garden, Hongli West Road, Futian District, Shenzhen  
Brand Name: N/A  
Model Number: GD61RC  
Additional Model Number: GD61R  
Rating: Input: DC 6.0V, 0.9W, 1.0A; Output: 0.9W

Remark: --

### 1.4 Submitted Sample: 1 Sample

### 1.5 Test Duration

2008-04-29 to 2008-04-29

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =  $\pm 2.4$ dB  
Radiated Emissions Uncertainty =  $\pm 4.2$ dB

### 1.7 Test Engineer

The sample tested by

A handwritten signature in black ink, appearing to read 'Terry Tong', is positioned above a horizontal line.

Print Name: Terry Tong

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## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2008.2.23	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2008.2.24	1 Year
LISN	NTFM8134	8134109	SCHWARZBECK	2008.2.24	1 Year
LISN	NTFM8136	8136102	SCHWARZBECK	2008.2.24	1 Year

### 2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2008.2.23	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with Tracking Generator)	MS2661C	MT72089	ANRITSU	2008.2.23	1 Year
Amplifier	MH648A	M20494	ANRITSU	2008.2.24	1 Year
Bilog Antenna	CBL6101C	2576	CHASE	2008.2.23	1 Year

### 2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
PC	8434	--	IBM	--	--
CRT Monitor	6331-4CN	23-DNWX3	IBM	--	--

### 2.4 I/O Cable

Cable No.	Port	Connector Type	Cable Type	Cable Length
1	VGA	VGA	Unshielded	1.5
2	AC	IEC	Unshielded	1.5
3	AC	IEC	Unshielded	2.0

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### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

#### 3.2 Test Standards

**FCC Part 15 Subpart B: 2006**

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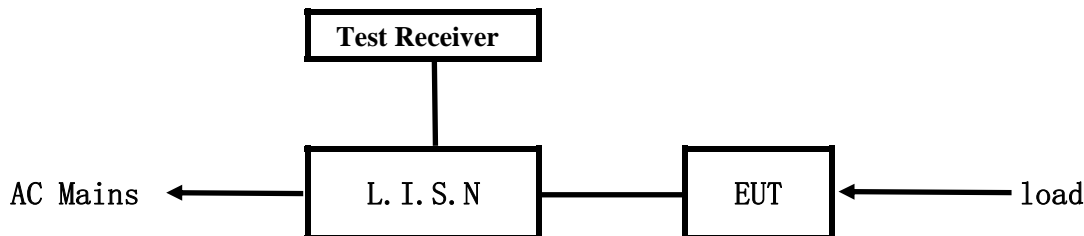
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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test

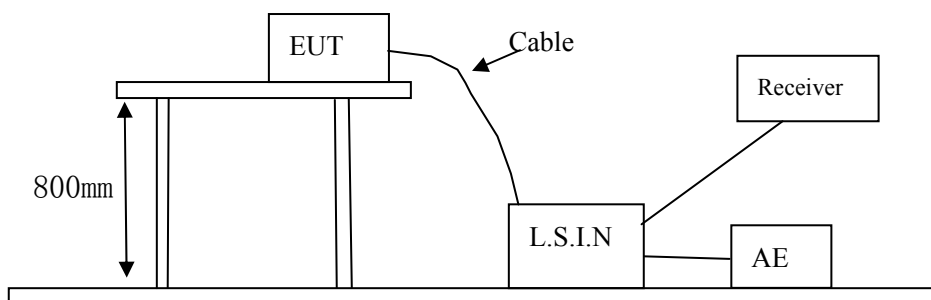


EUT: Equipment Under Test

##### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Block diagram of Test setup



##### 4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB( $\mu$ V)		Class B Limits dB( $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

Notes: 1. \*decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

##### 4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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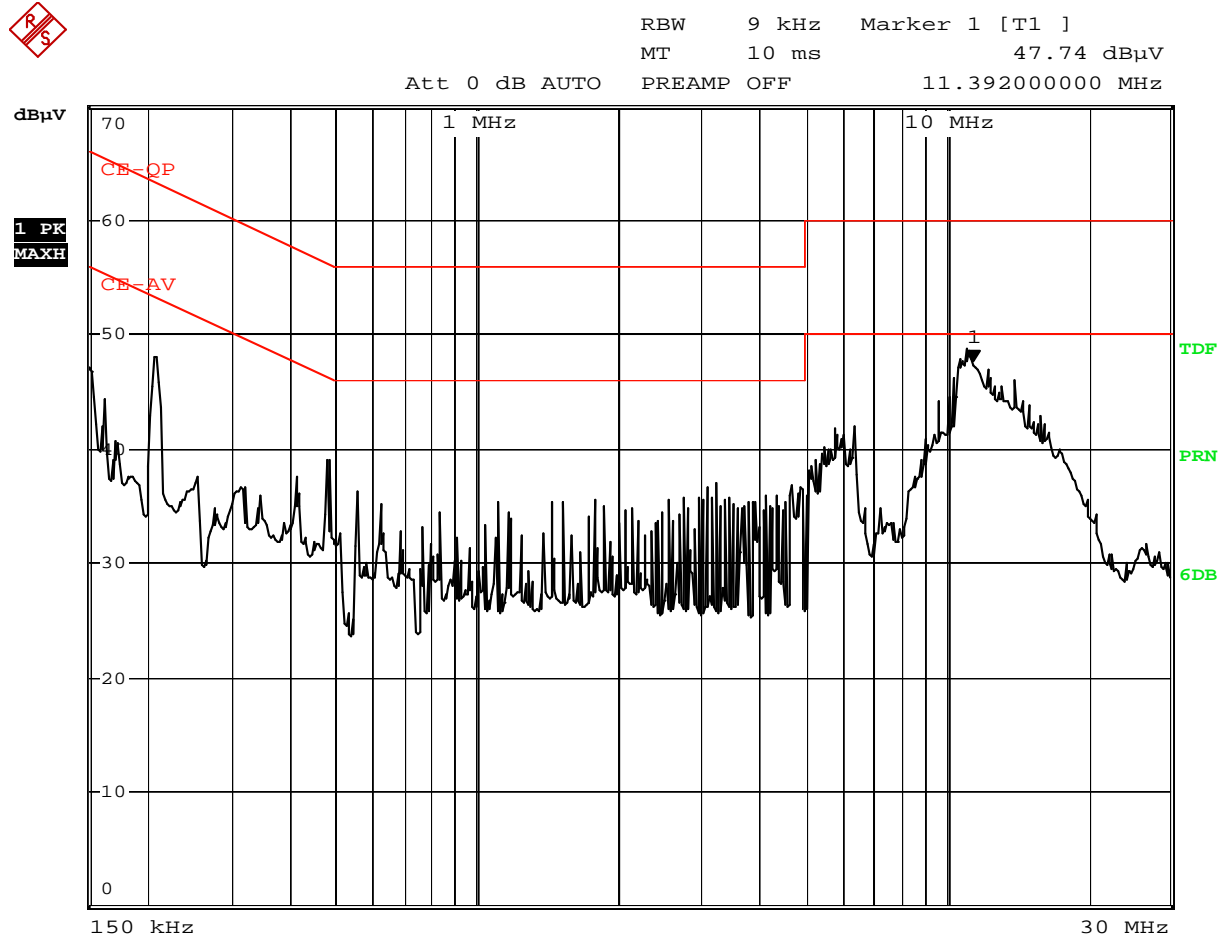
**A: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Connected to PC

**Level Class B**

**Results: Pass**

Please refer to following diagram for individual



Date: 29.APR.2008 15:43:59

Frequency (MHz)	Reading(dBμV)				Limit	
	Live		Neutral		(dBμV)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.206	44.60	42.90	-	-	63.40	53.40
5.80	40.50	39.90	-	-	60.00	50.00
11.048	47.70	44.60	-	-	60.00	50.00

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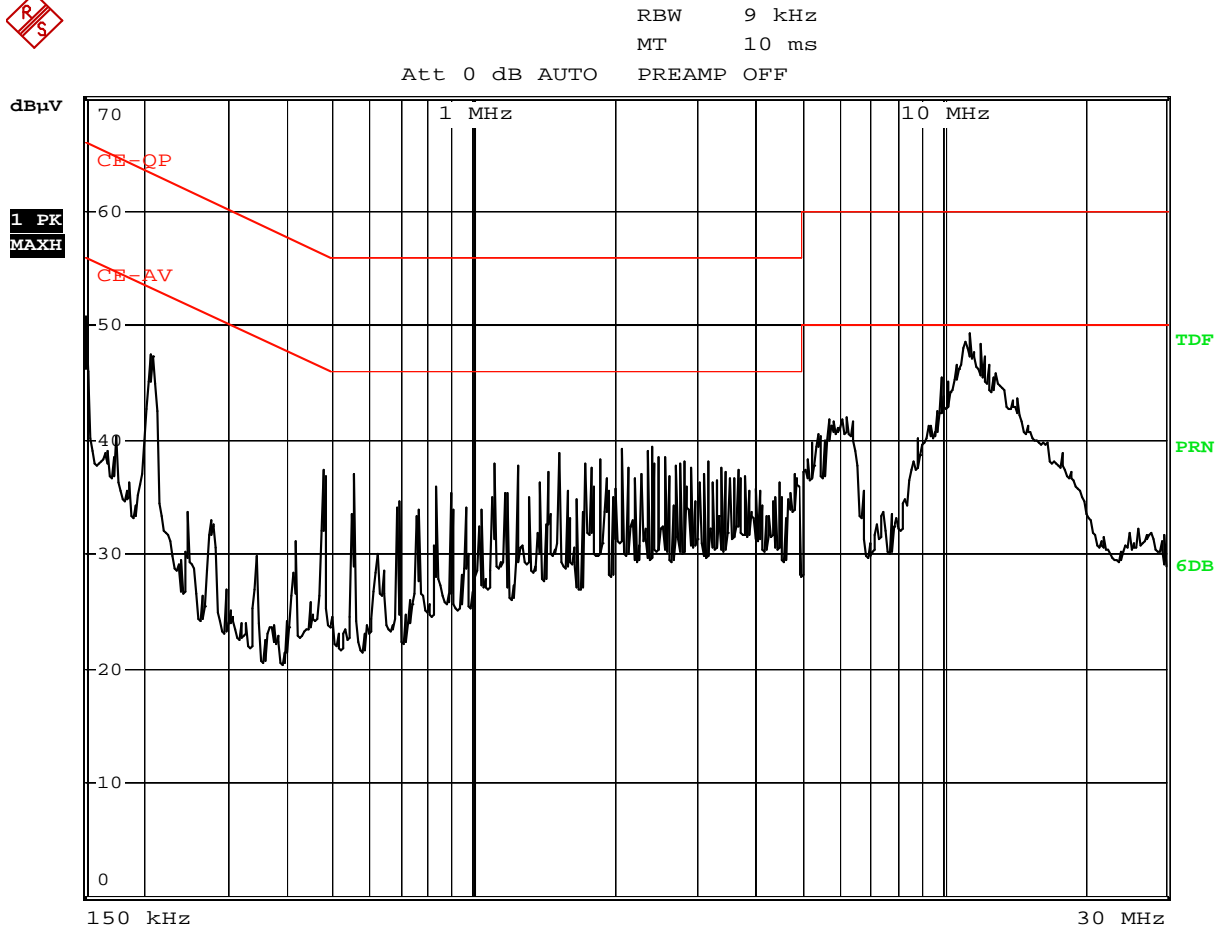
**B: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Connected to PC

Level Class B

Results: Pass

Please refer to following diagram for individual



Date: 29.APR.2008 15:42:01

Frequency (MHz)	Reading(dBμV)				Limit	
	Live		Neutral		(dBμV)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.206	-	-	43.60	41.70	63.40	53.40
2.416	-	-	37.40	37.10	56.00	46.00
11.464	-	-	47.50	44.80	60.00	50.00

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## 5.0 Radiated Disturbance Test

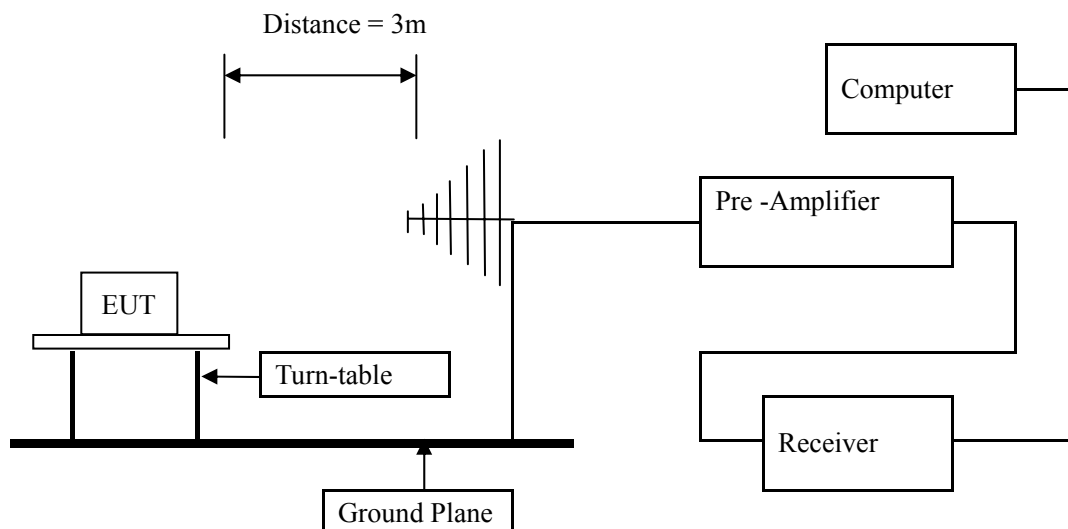
### 5.1 Schematics of the test



### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

#### Block diagram of Test setup



### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

### 5.4 Test result

The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

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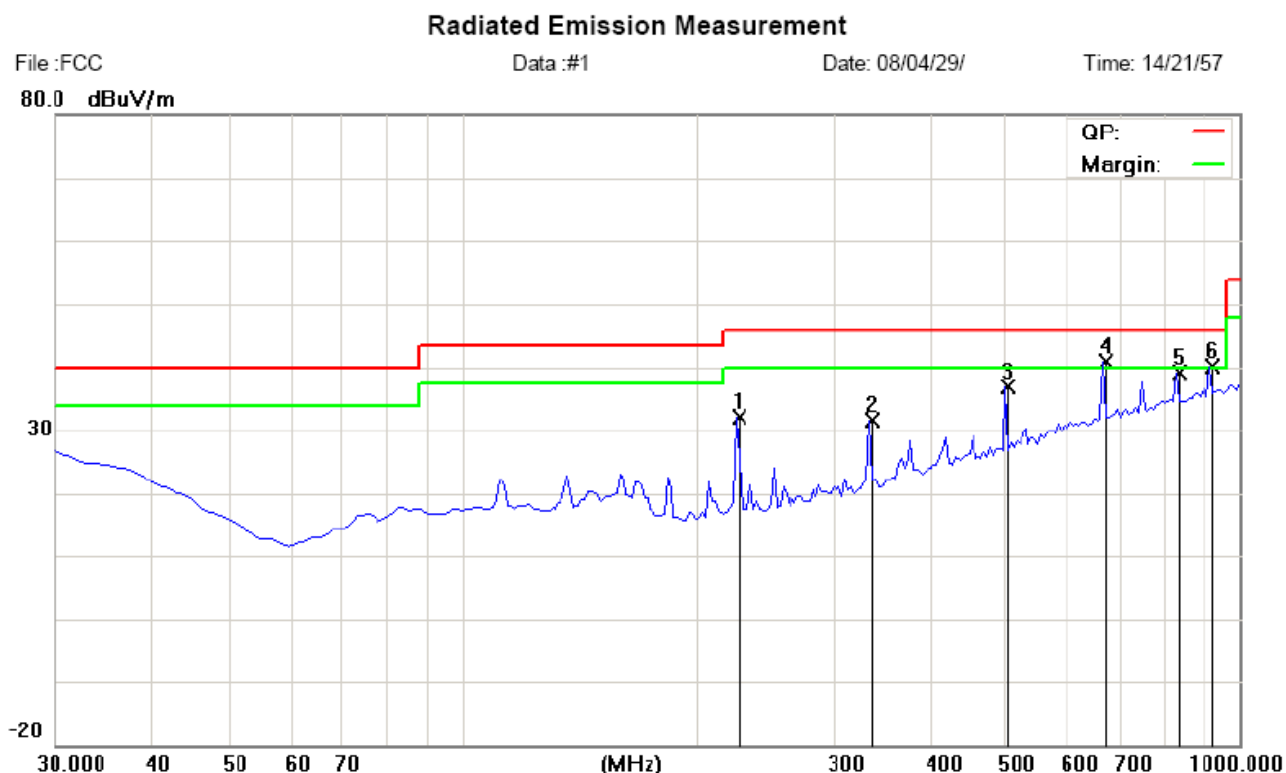
**A: Radiated Disturbance In Horizontal (30MHz----1000MHz)**

EUT set Condition: Connected to PC

Level: Class B

Results: PASS

Please refer to following diagram for individual  
Picture of the test



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
226.425	32.11	H	46.00
335.550	31.56	H	46.00
502.875	36.80	H	46.00
670.200	40.86	H	46.00
837.525	39.06	H	46.00
919.975	40.22	H	46.00

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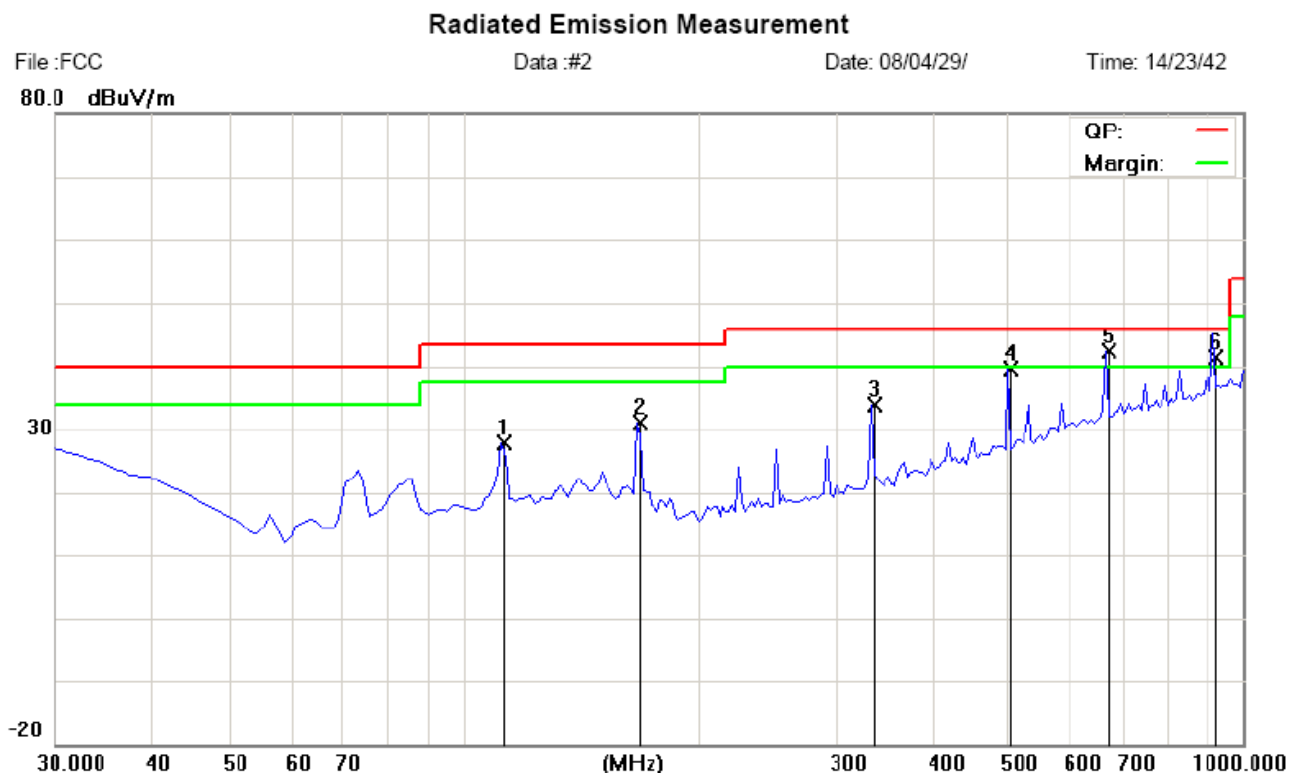
**B: Radiated Disturbance In Vertical (30MHz---1000MHz)**

EUT set Condition: Connected to PC

Level: Class B

Results: PASS

Please refer to following diagram for individual  
Picture of the test



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
112.450	27.82	V	40.00
168.225	31.03	V	43.50
335.550	33.97	V	46.00
502.875	39.66	V	46.00
670.200	42.43	V	46.00
920.229	41.42	V	46.00

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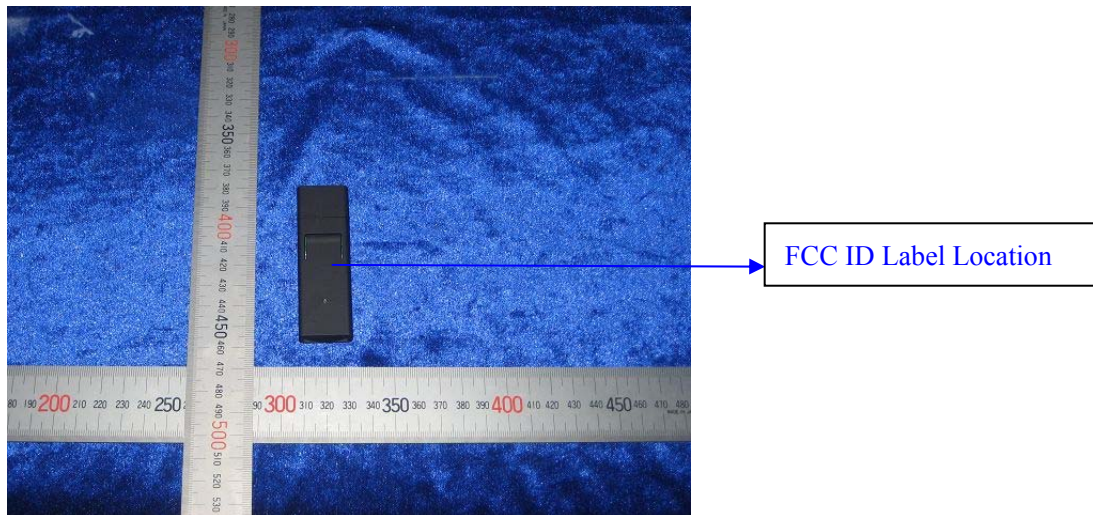
## 6.0 FCC ID Label

### FCC ID: UFKGD61RC

**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 label. 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.

### Mark Location: On the product body



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## 7.0 Photo of testing

### 7.1 Conducted test View--



### 7.2 Radiated emission test view



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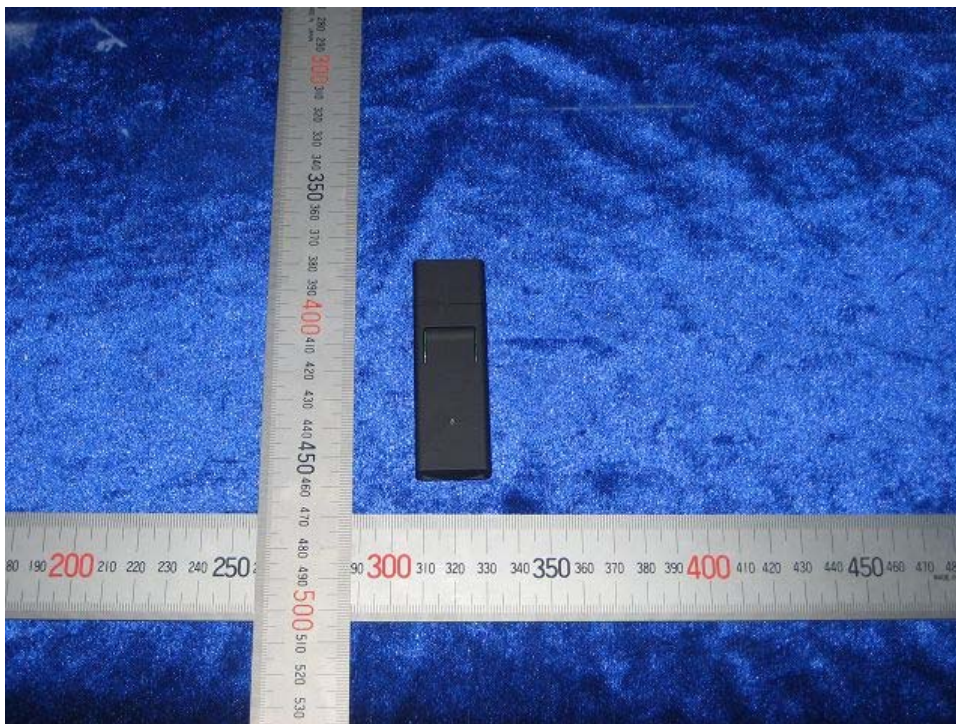
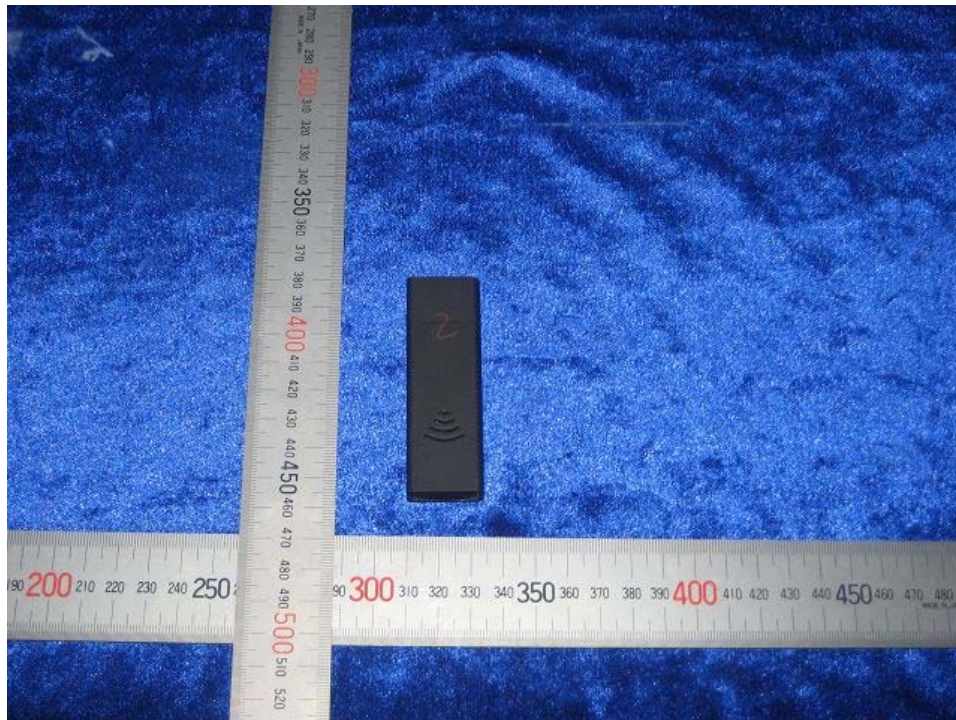
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### 7.3 Photo for the EUT

Outside View



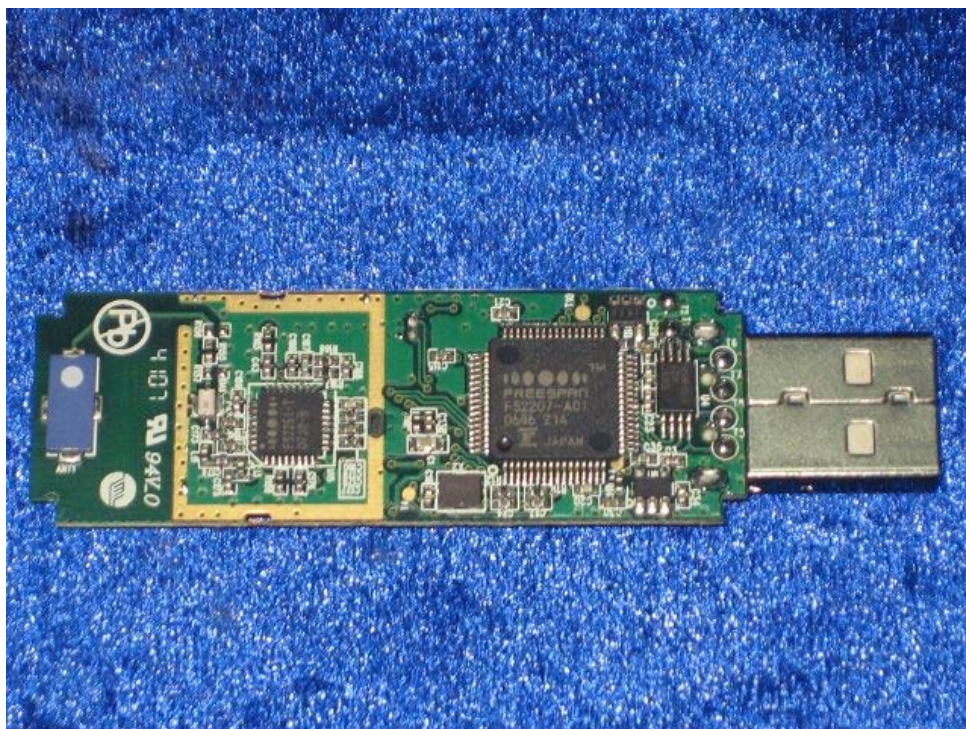
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Outside View



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Interior View



**--End of the report--**

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