

TECHNICAL CONSULTING



卓時檢測  
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC 08010181

File reference No: 2008-11-03

Applicant: ZHONG SHAN FAMA ELECTRONIC TECHNOLOGY CO.,LTD

Product: Receiver

Brand Name: Ikey

Model No: FG002

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: NOV. 03 . 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: ZHONG SHAN FAMA ELECTRONIC TECHNOLOGY CO.,LTD  
Address: D2 Fu Wan Industrial Park, East District , Shiqi , Zhongshan City , Guangdong, China  
Telephone: 0760-87337092  
Fax: 0760-87337093

### 1.3 Description of EUT

Product: Receiver  
Manufacturer: ZHONG SHAN FAMA ELECTRONIC TECHNOLOGY CO.,LTD  
Address: D2 Fu Wan Industrial Park, East District , Shiqi , Zhongshan City , Guangdong, China  
Brand Name: Ikey  
Model Number: FG002  
Additional Model Number: Ikey001/Ikey003  
Rating: Input: 30mA ,Voltage DC 12V  
Adaptor: Model: HCD12-100 Input: AC120V 60Hz 9W Output: DC 12V 100mA  
Operation Frequency: 433.92MHz (Rx)

### 1.4 Submitted Sample: 2 Sample

### 1.5 Test Duration: 2008-10-20 to 2008-11-12

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

### 1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

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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
1	N/A	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A	N/A

### 2.4 I/O Cable

Cable No.	Port	Connector Type	Cable Type	Cable Length
1	N/A	N/A	N/A	N/A

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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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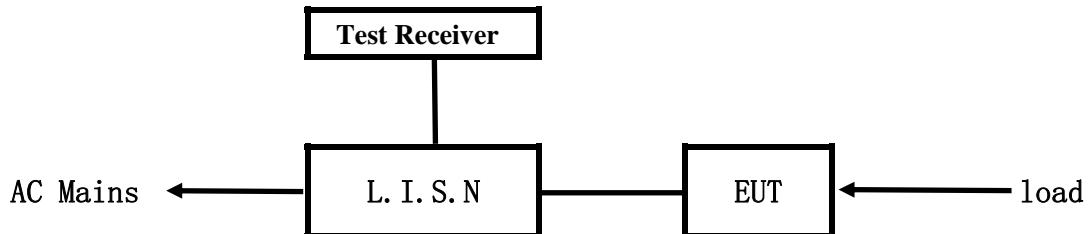
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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test

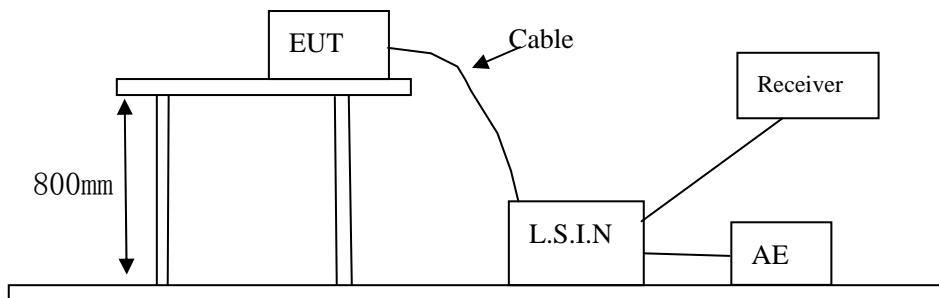


EUT: Equipment Under Test

##### 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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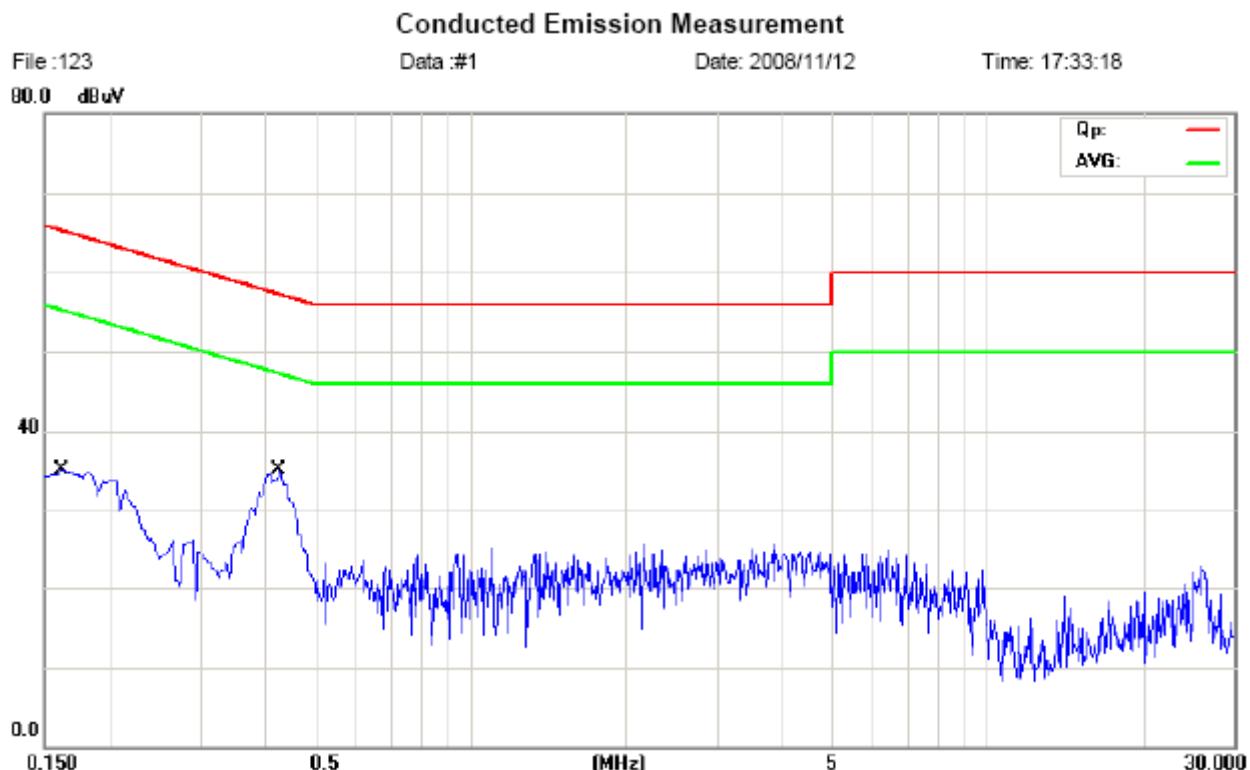


Test Data:

EUT set Condition: Receiving

**Results:** **Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4275	--	--	28.89	22.29	57.34	47.34
0.1620	--	--	28.31	22.63	65.36	55.36

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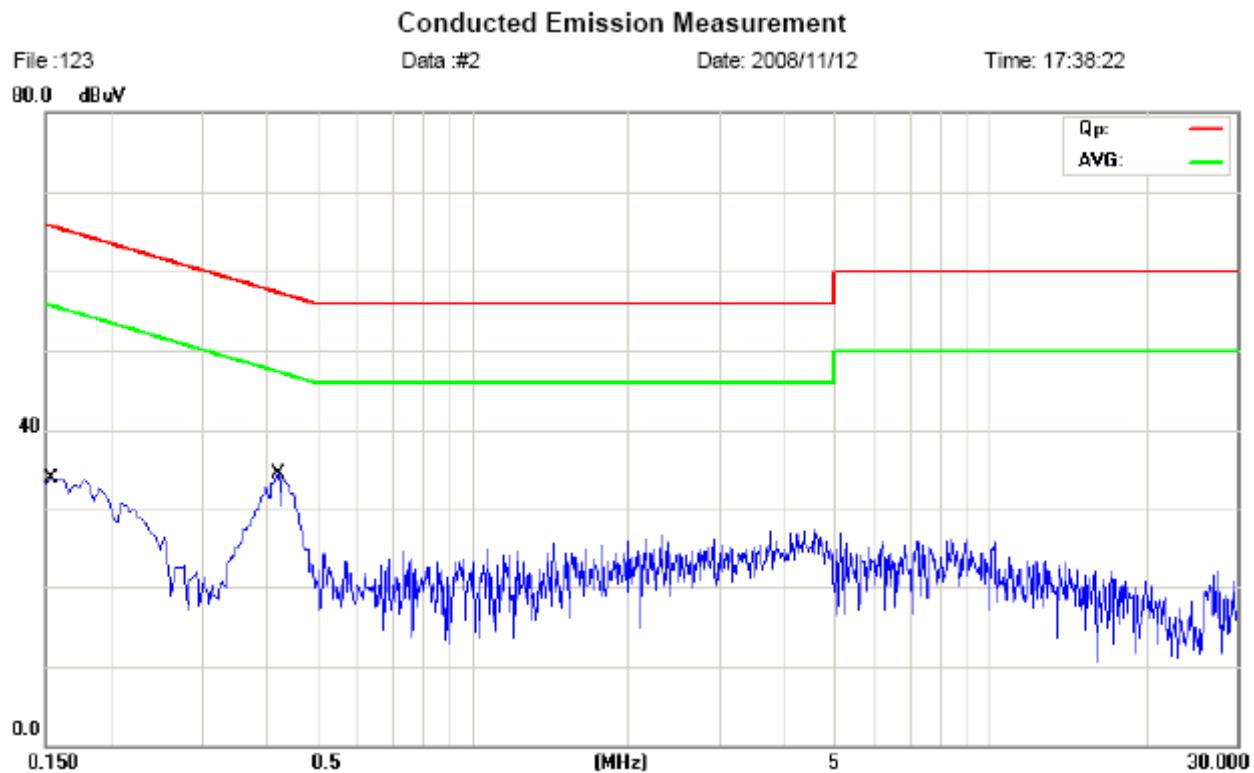
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EUT set Condition: Receiving

**Results:** **Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1543	27.80	21.60	--	--	65.77	55.77
0.4211	30.59	23.32	--	--	57.43	47.43

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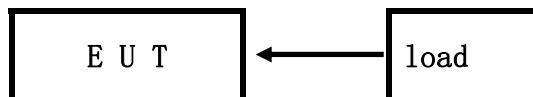
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## 5.0 Radiated Disturbance Test

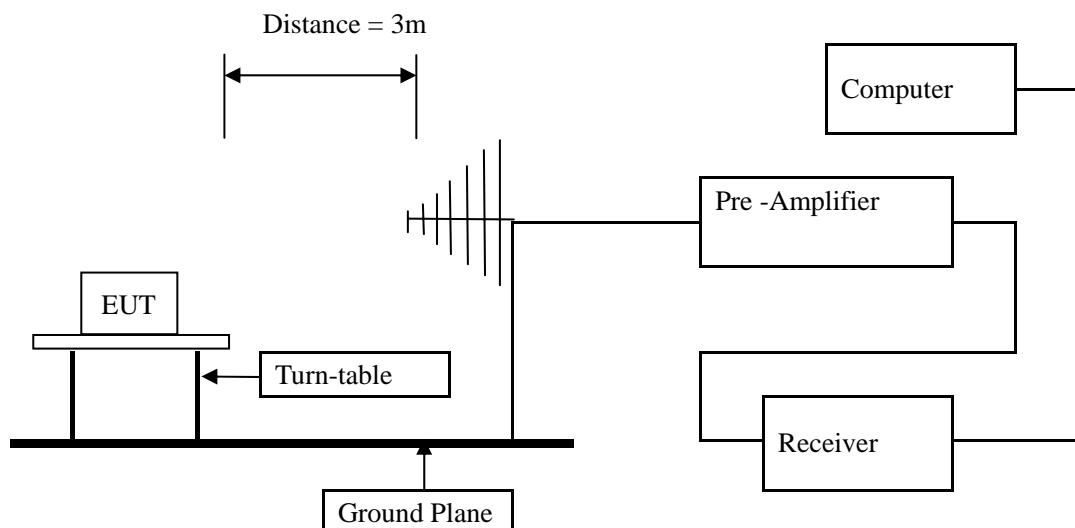
### 5.1 Schematics of the test



### 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)

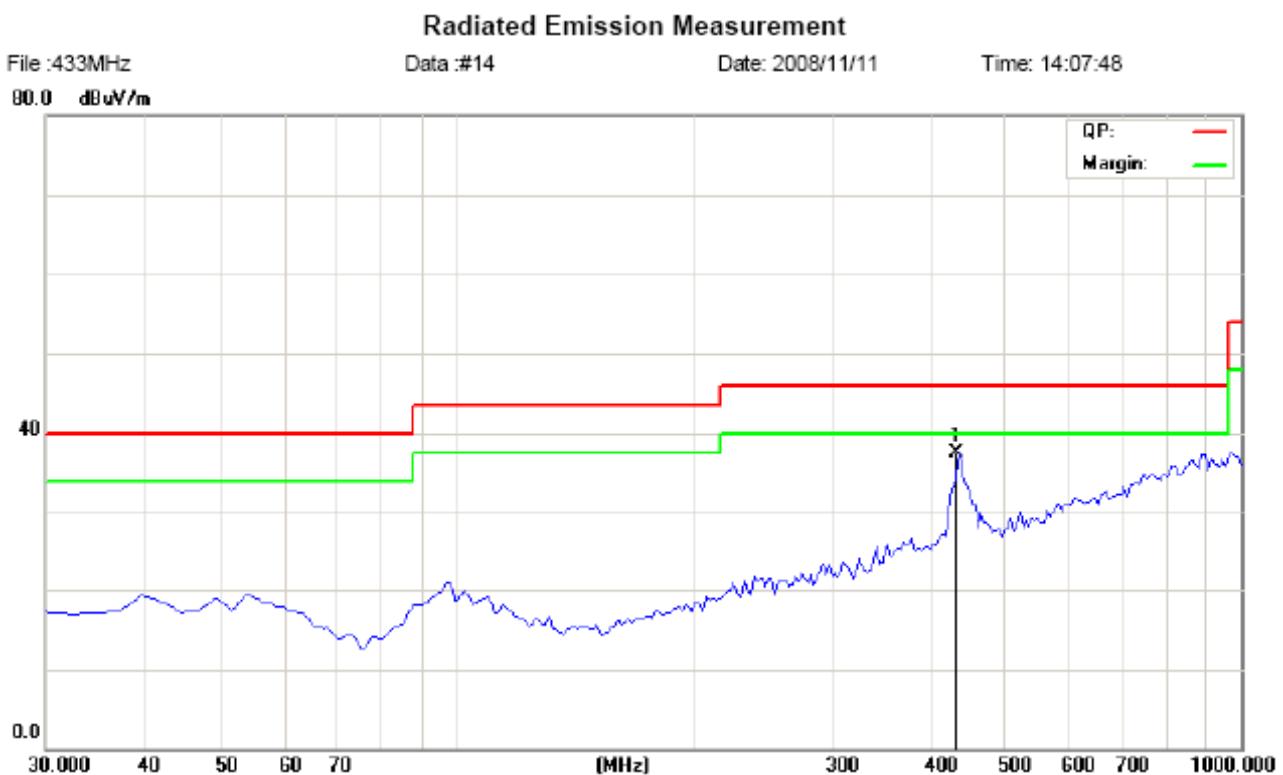
EUT set Condition: Receiving

**Level:** Class B

**Results:** PASS

Please refer to following diagram for individual

Picture of the test



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
433.92	34.44	H	46.00

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### A1: Radiated Disturbance In Horizontal (1000MHz----2000MHz)

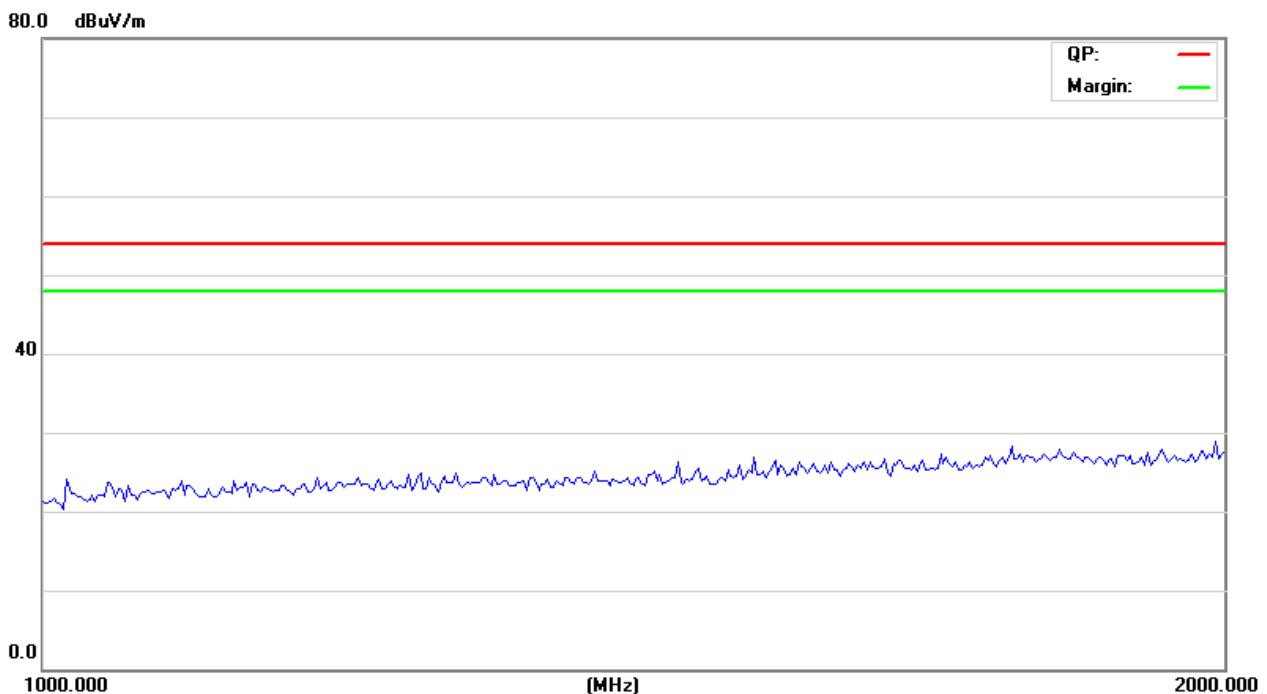
EUT set Condition: Receiving

Level: Class B

Results: PASS

Please refer to following diagram for individual

Picture of the test



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
--	--	H	54 (AV) /74 (PK)

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

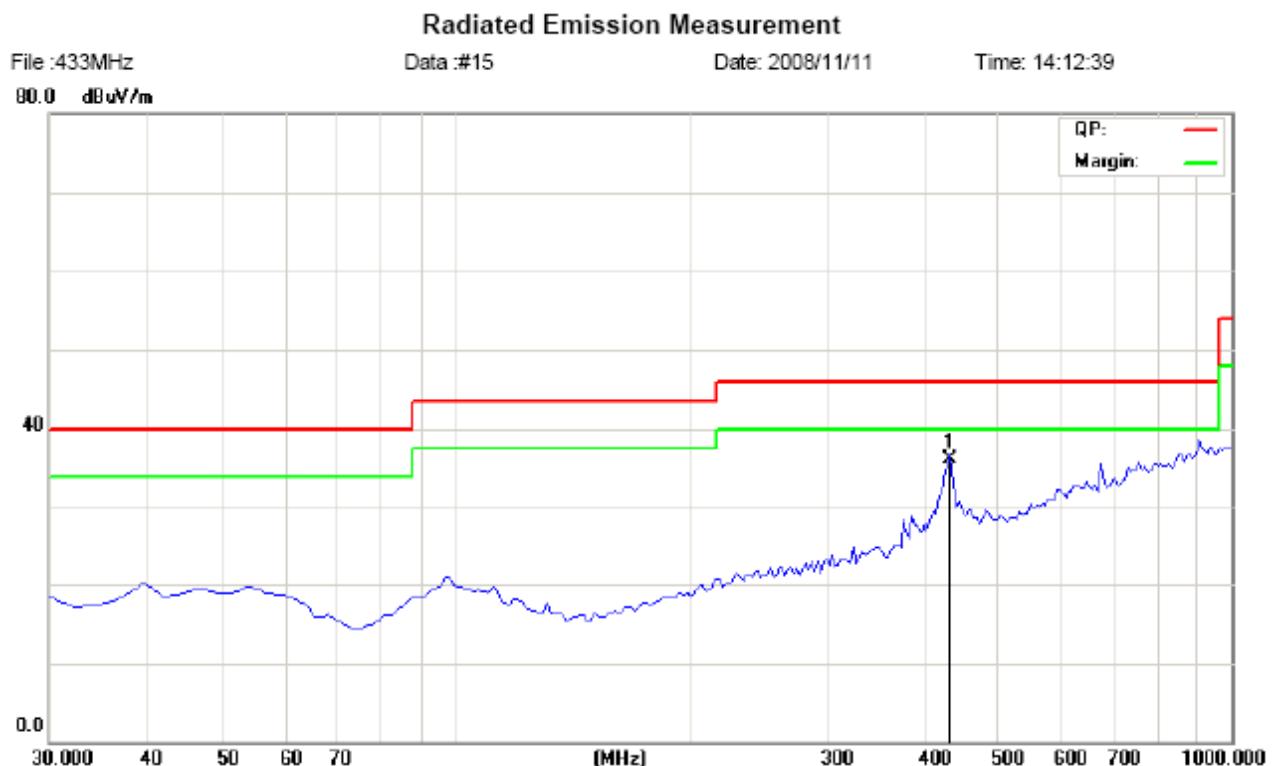
EUT set Condition: Receiving

**Level:** Class B

**Results:** PASS

Please refer to following diagram for individual

Picture of the test



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
433.92	36.19	V	46.00

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### B1: Radiated Disturbance In Vertical (1000MHz---2000MHz)

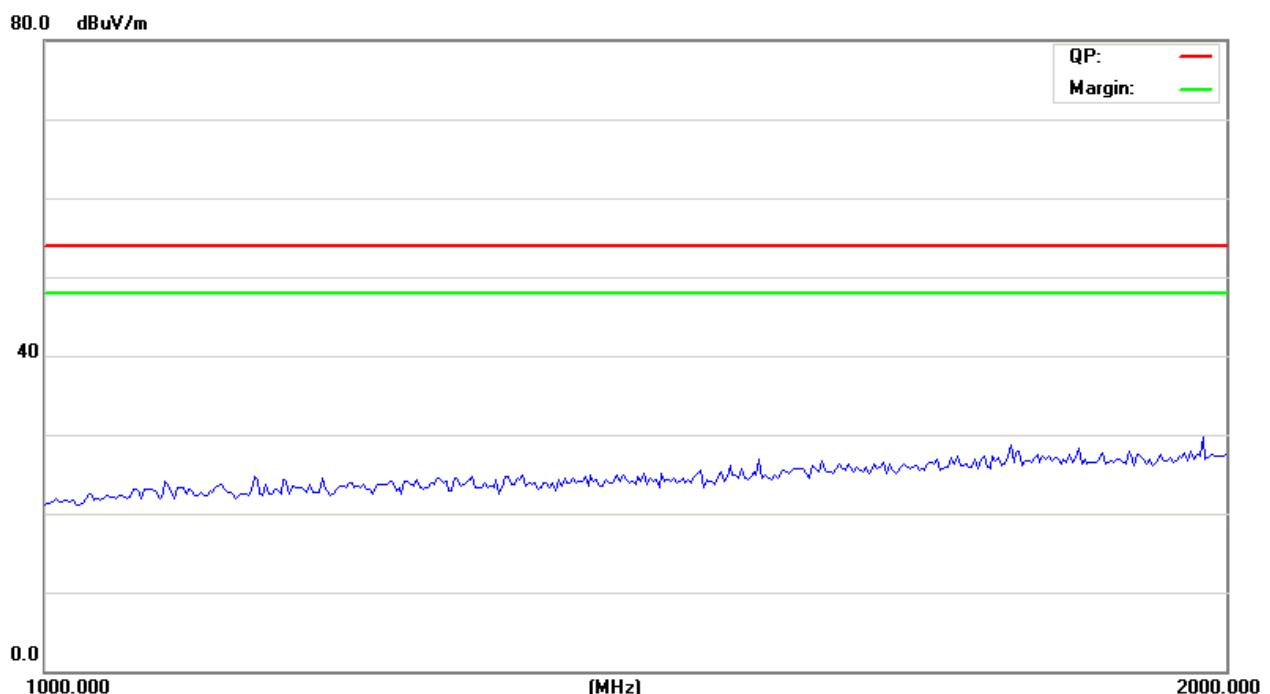
EUT set Condition: Receiving

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)
--	--	V	54 (AV) / 74 (PK)

**Note: for the emission test, A 433.92 MHz CW signal was injected (radiated) from a nearby signal generator using a rod antenna**

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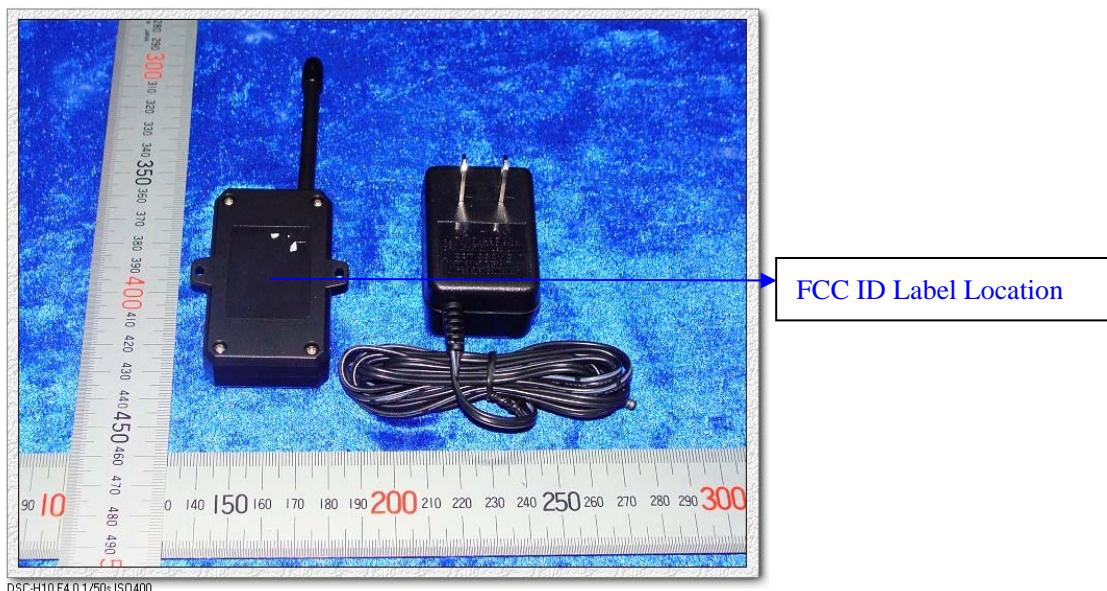
## 6.0 FCC ID Label

**FCC ID: VLZFAMAIKEY001**

**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:**



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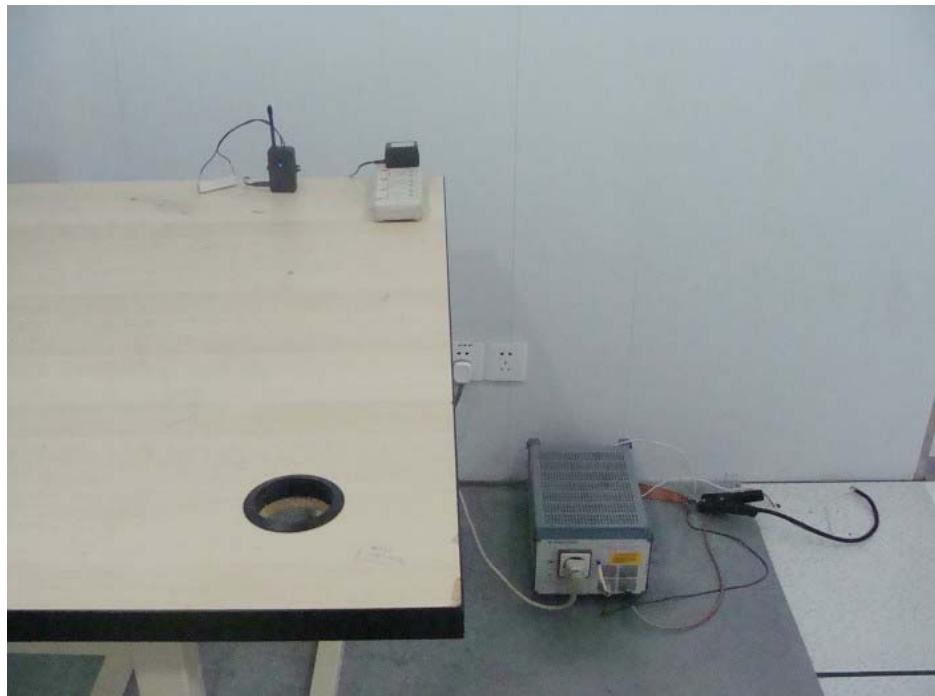
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## 7.0 Photo of testing

### 7.1 Conducted test View



### 7.2 Radiated emission test view--



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### 7.3 Photo for the EUT

Front View



DSC-H10 F4.0 1/50s ISO400

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Back View



DSC-H10 F4.0 1/50s ISO400

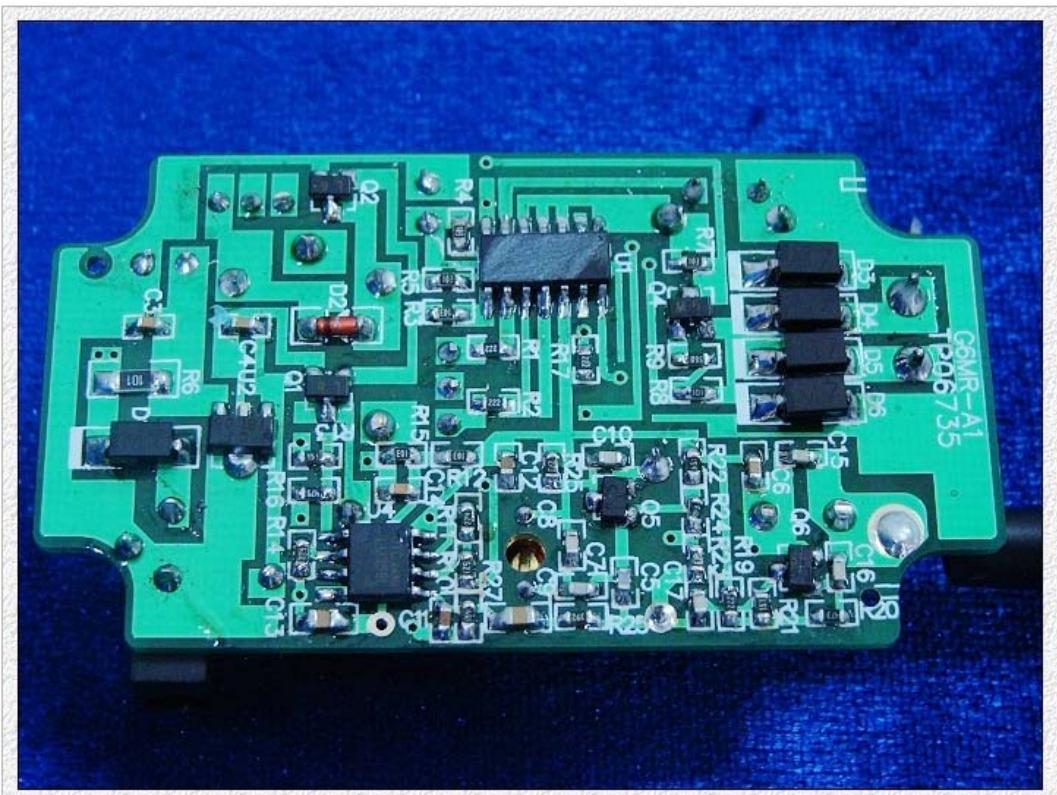
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Inside View1

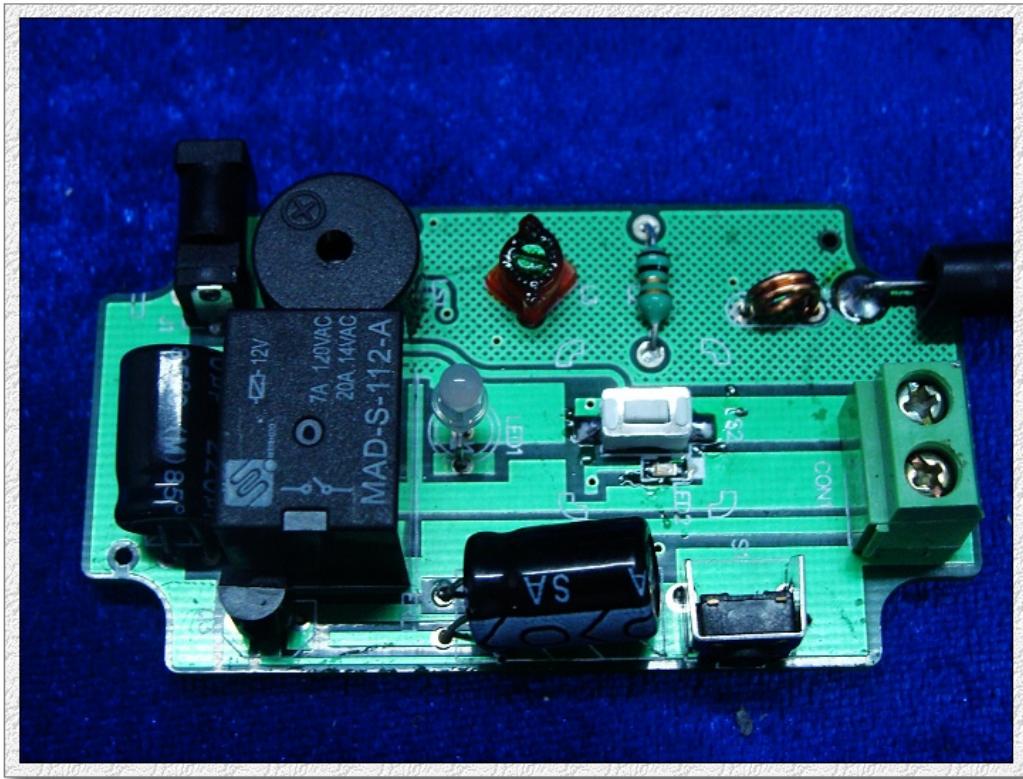


DSC-H10 F4.0 1/10s ISO400

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