

TECHNOLOGY  
DEVELOPMENT  
LABORATORY  
SHENZHEN  
TIMEWAY  
TESTING  
LABORATORY  
TESTING  
CNAS  
L2292



卓時檢測  
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC1008055  
File reference No: 2010-08-17

Applicant: SUNUP MECHA-ELECTRONIC EQUIPMENT CO.,LTD

Product: MAG GUN

Model No: MCJB11P

Brand Name: G-MATE

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated: Aug 17, 2010

**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: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996

Site on File with the Federal Communications Commission – United States

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: SUNUP MECHA-ELECTRONIC EQUIPMENT CO.,LTD  
Address: 515-517 Room , xihaimingzhu Mansion F building , Taoyuan Road No.1 ,Nanshan district,Shenzhen  
Telephone: +86-755-86069357  
Fax: +86-755-86264838

### 1.3 Description of EUT

Product:	MAG GUN
Manufacturer:	SUNUP MECHA-ELECTRONIC EQUIPMENT CO.,LTD
Brand Name:	G-MATE
Model Number:	MCJB11P
Additional Model Name	MCJB11PA, MCJB11PD
Additional Trade Name	N/A
Rating:	DC 6V (4pcs AA batteries)
Modulation Type:	FSK
Operation Frequency	2434-2436MHz
Antenna Designation	ceramic chip antenna and the maximum gain is -0.2dBi

### 1.4 Submitted Sample

1 Sample

### 1.5 Test Duration

2010-08-07 to 2010-08-17

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

*Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2009-12-05	2010-12-04
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2009-12-05	2010-12-04
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2010-03-29	2011-03-28
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2010-02-17	2011-02-16
System Controller	CT	SC100	-	2010-02-17	2011-02-16
Field probe	Holiday	HI-6005	105152	2010-02-17	2011-02-16
Bilog Antenna	Chase	CBL6111C	2576	2010-02-17	2011-02-16
Loop Antenna	EMCO	6502	00042960	2010-02-17	2011-02-16
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2010-02-17	2011-02-16
3m OATS	--	--	N/A	2010-02-17	2011-02-16
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2010-08-14	2011-08-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2010-07-03	2011-07-02
Power meter	Anritsu	ML2487A	6K00003613	2010-02-17	2011-02-16
Power sensor	Anritsu	MA2491A	32263	2010-02-17	2011-02-16
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2010-05-14	2011-05-13
LISN	AFJ	LS16C	10010947251	2010-5-14	2011-05-13
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2010-5-14	2011-05-13
9*6*6 Anechoic	--	--	N/A	2010-5-14	2011-05-13

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### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>PASS</b>	<b>N/A</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(a) &amp; 15.249(b) Limit</b>	<b>Field Strength of Fundamental</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.209</b>	<b>Radiated Emission Test</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(d) Limit</b>	<b>Band Edge Test</b>	<b>PASS</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart C, Paragraph 15.249**

#### 4.0 EUT Modification

**No modification by Shenzhen Timeway Technology Consulting Co.,Ltd**

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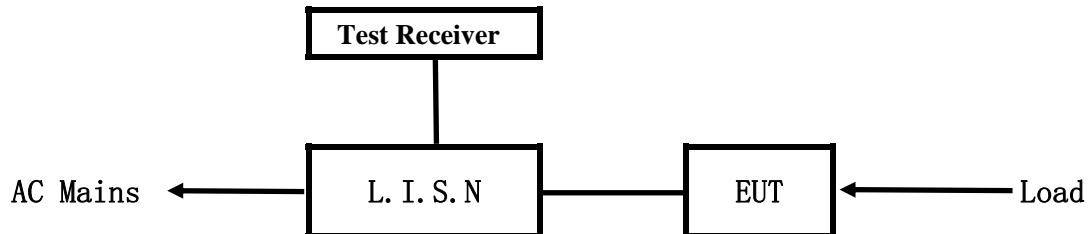
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

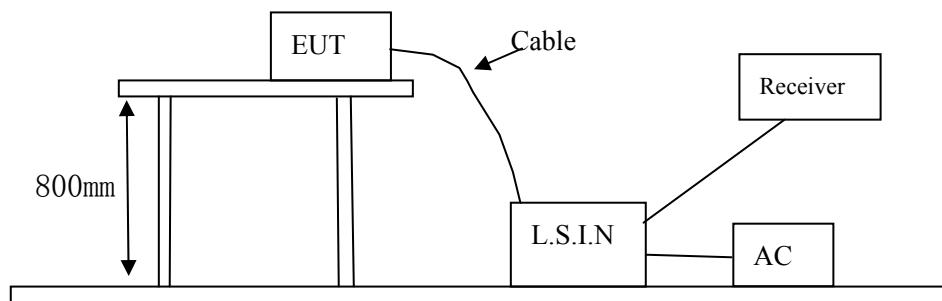


EUT: Equipment Under Test

### 5.2 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.

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
MAG GUN	SUNUP MECHA-ELECTRONIC EQUIPMENT CO.,LTD	MCJB11P	YPWMCJB11P

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

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	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

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

5.6 Test Results

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

**Note: Due to DC Operation, this test item not applicable.**

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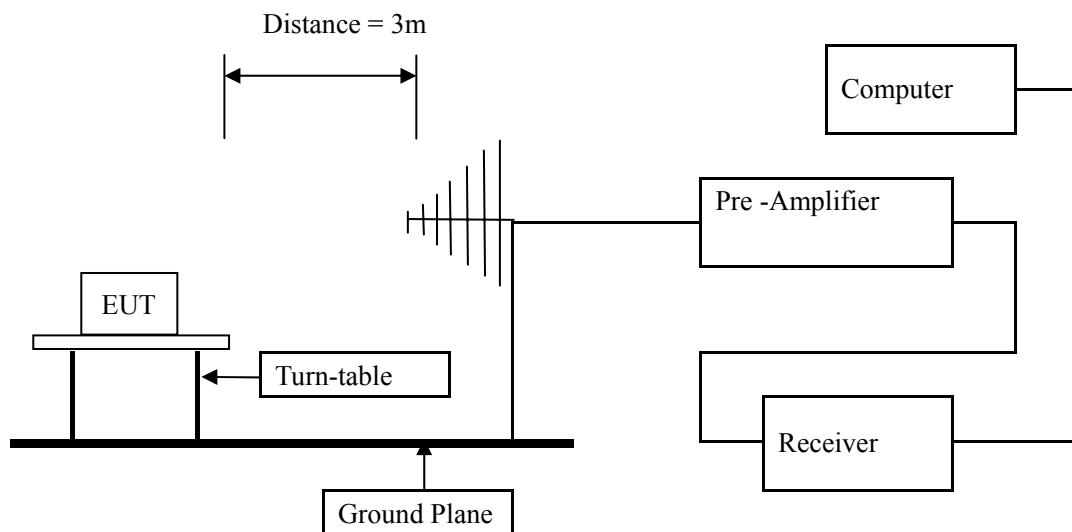


## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization : Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup



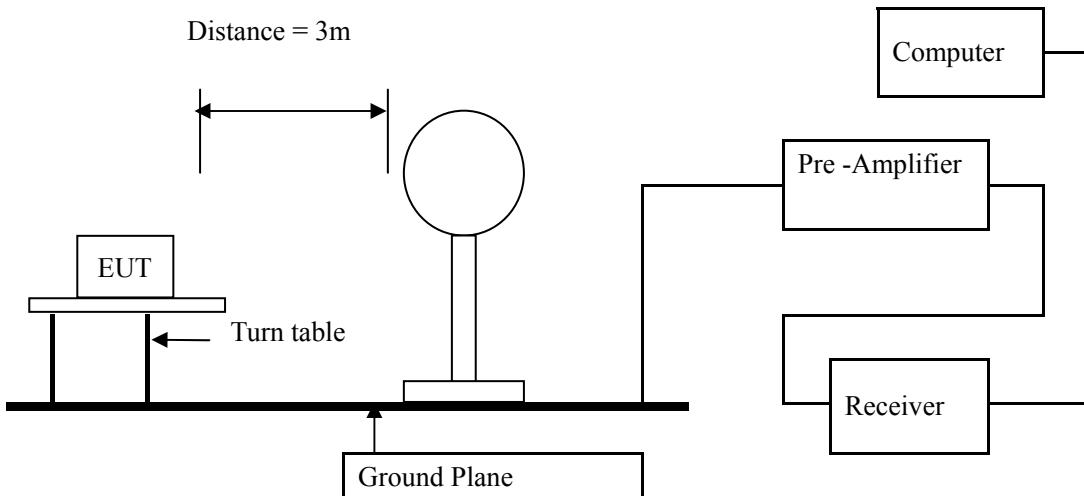
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Block diagram of Test setup for frequency below 30MHz



Configuration of The EUT

Same as section 5.3 of this report

EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**A FCC Part 15 Subpart C Paragraph 15.249(a) Limit**

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)	
	<b>mV/m</b>	<b>dBuV/m</b>	<b>uV/m</b>	<b>dBuV/m</b>
2400-2483.5	50	94 (Average)	114 (Peak)	500
				54 (Average) 74 (Peak)

- Note:
1. RF Field Strength (dBuV) =  $20 \log_{10} \text{RF Voltage (uV)}$
  2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
  3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

**B. Frequencies in restricted band are complied to limit on Paragraph 15.209.**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	$20 \log_{10} 2400/F \text{ (kHz)} + 80$
0.490-1.705	3	$20 \log_{10} 24000/F \text{ (kHz)} + 40$
1.705-30	3	$20 \log_{10} 30 + 40$
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) =  $20 \log_{10} \text{RF Voltage (uV)}$
  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 and the EUT
  4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand). After pre-test. It was found that the worse radiated emission was get at the lying position.
  5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK and AV detector.
  6. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula  $Ld1 = Ld2 * (d2/d1)$

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## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Product:	MAG GUN	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	6VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2434	78.3(PK)	H	114/94	-15.7
2434	75.1 (PK)	V	114/94	-18.9
4868	--	H/V	74/54	--
7302	--	H/V	74/54	--
9736	--	H/V	74/54	--
12170	--	H/V	74/54	--
14604	--	H/V	74/54	--
17038	--	H/V	74/54	--
19472	--	H/V	74/54	--
21906	--	H/V	74/54	--
24340	--	H/V	74/54	--

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Product:	MAG GUN	Test Mode:	High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	6VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2436	75.6 (PK)	H	114/94	-18.4
2436	73.3(PK)	V	114/94	-20.7
4872	--	V	74/54	--
4872	--	H	74/54	--
7308	--	H/V	74/54	--
9744	--	H/V	74/54	--
12180	--	H/V	74/54	--
14616	--	H/V	74/54	--
17052	--	H/V	74/54	--
19488	--	H/V	74/54	--
21924	--	H/V	74/54	--
24360	--	H/V	74/54	--

- Note:
- (1) PK= Peak, AV= Average
  - (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
  - (3) Margin=Emission-Limits
  - (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
  - (5) The measured PK value less than the AV limit.

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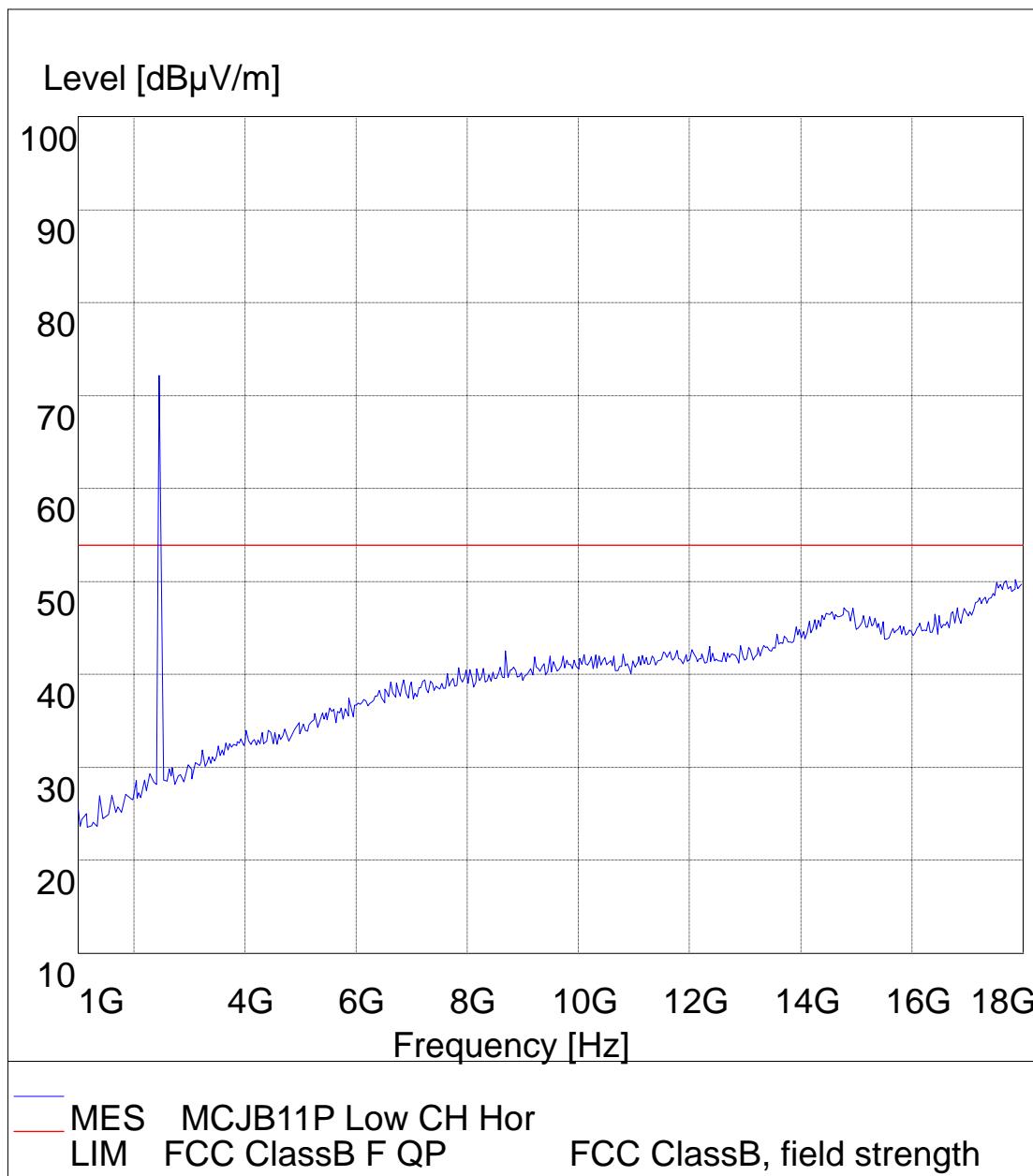
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Please refer to following diagram for individual

Low Channel-Horizontal



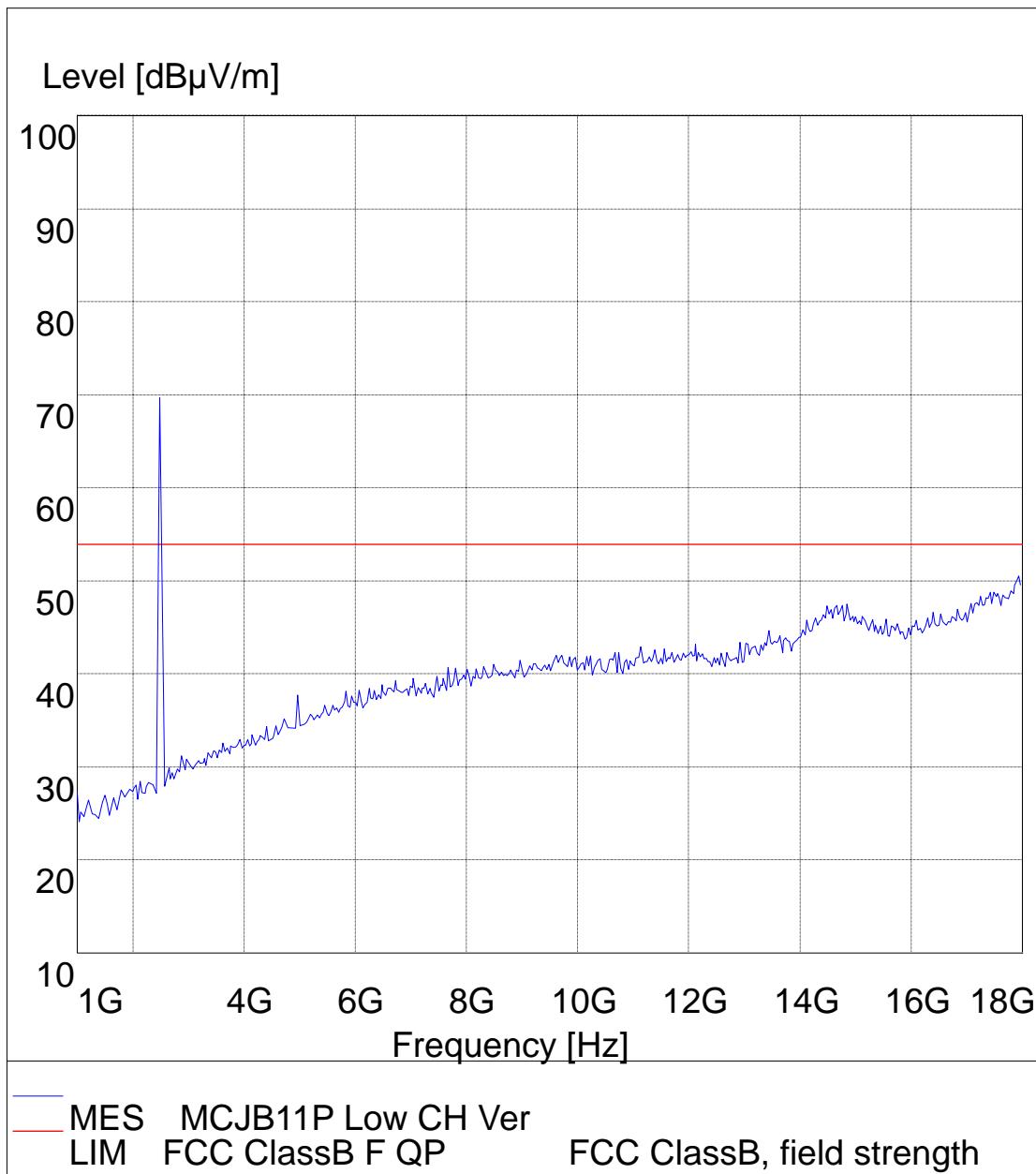
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Please refer to following diagram for individual  
Low Channel-Vertical



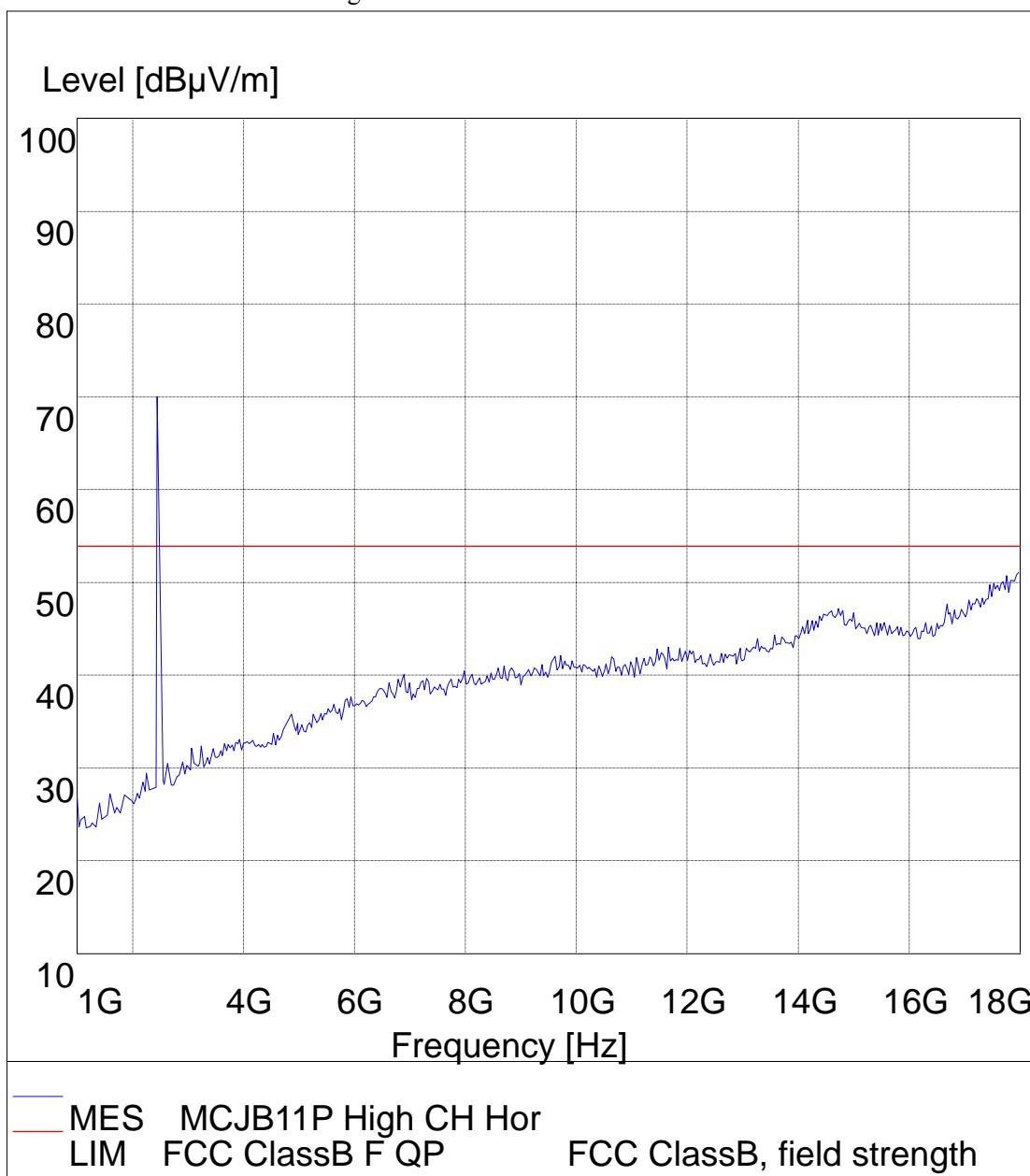
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Please refer to following diagram for individual  
High-Horizontal



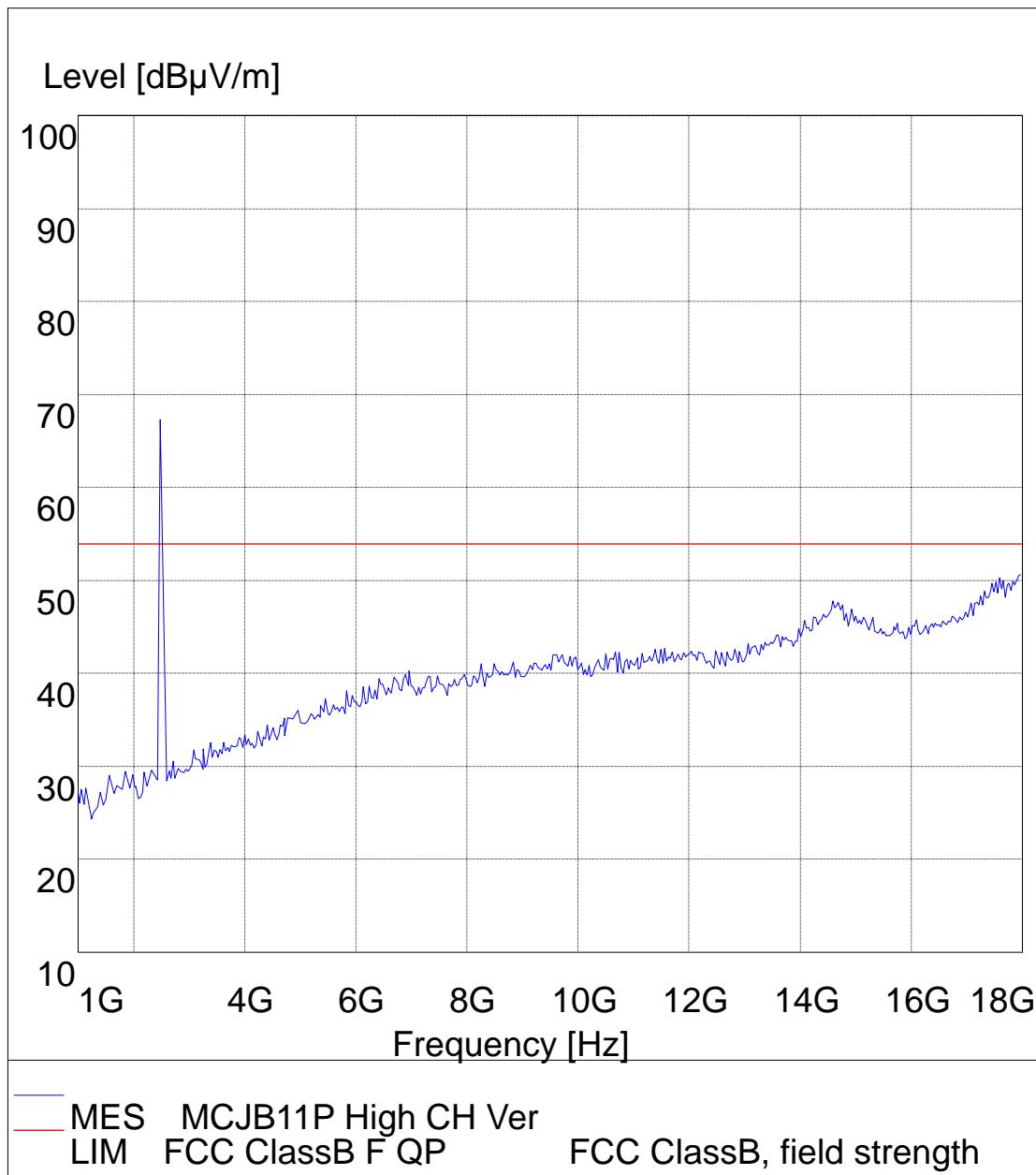
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Please refer to following diagram for individual  
High-Vertical



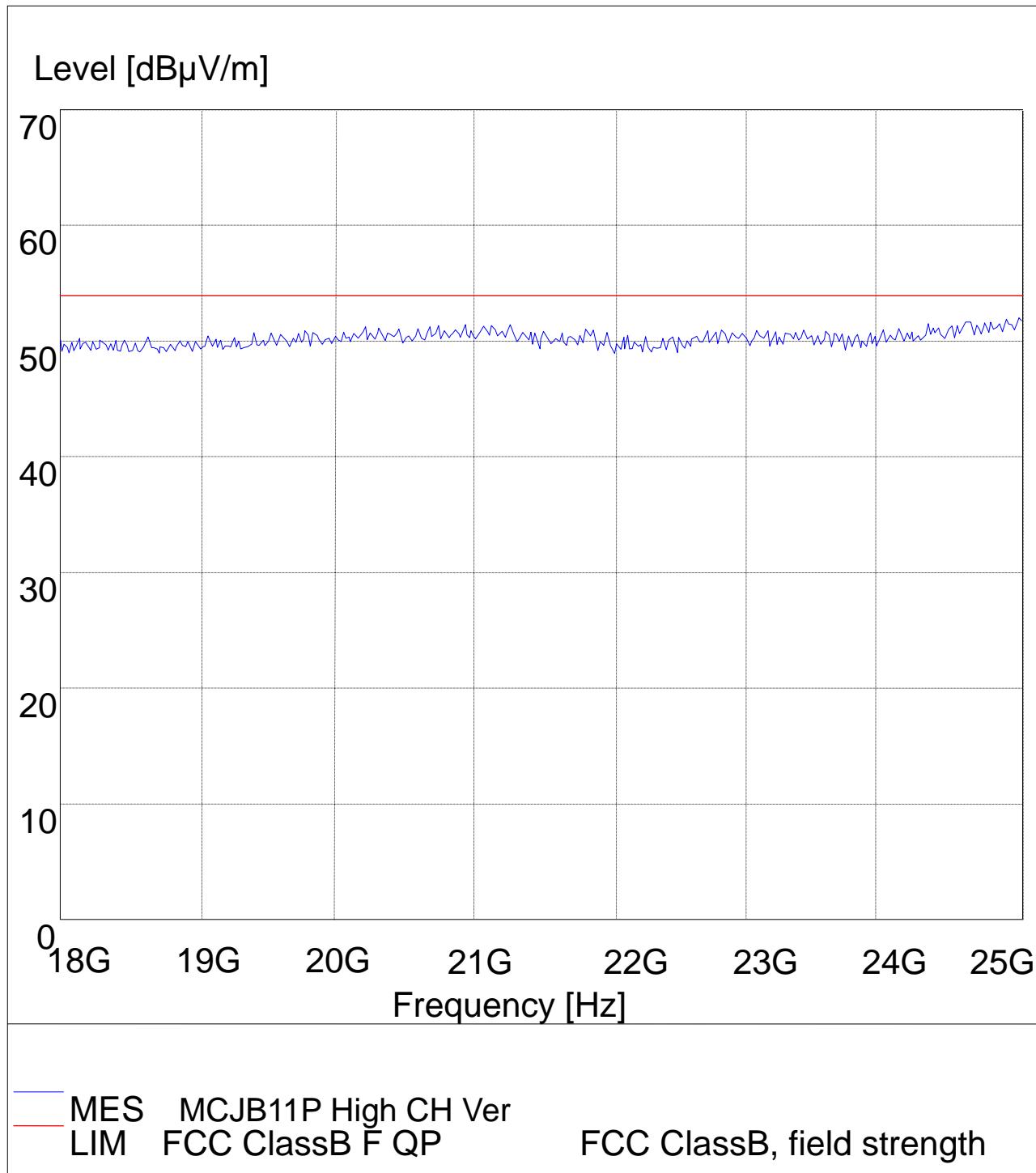
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### 18-25G Vertical High Channel



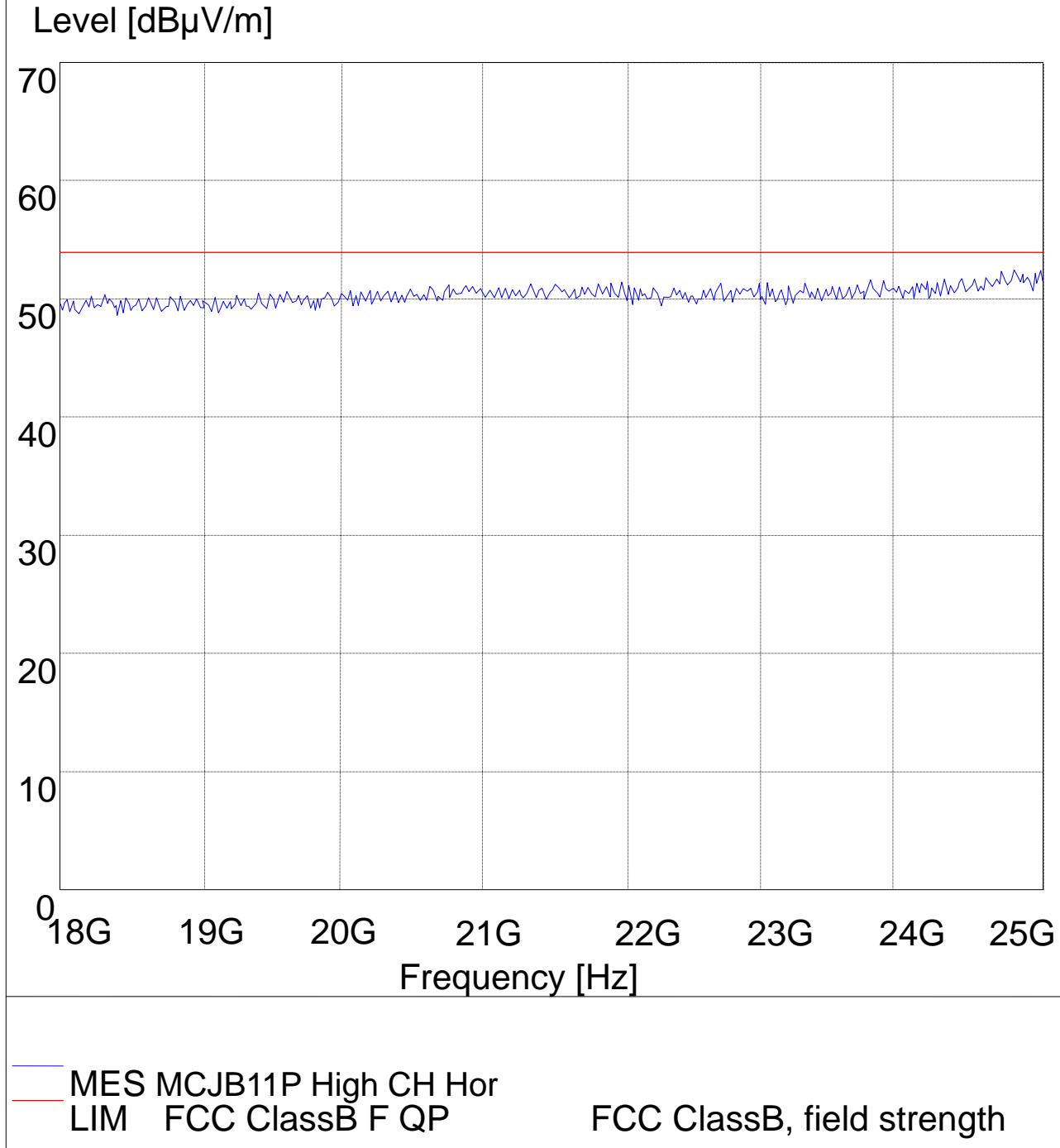
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### 18-25G Horizontal High Channel



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## B. General Radiated Emission Data

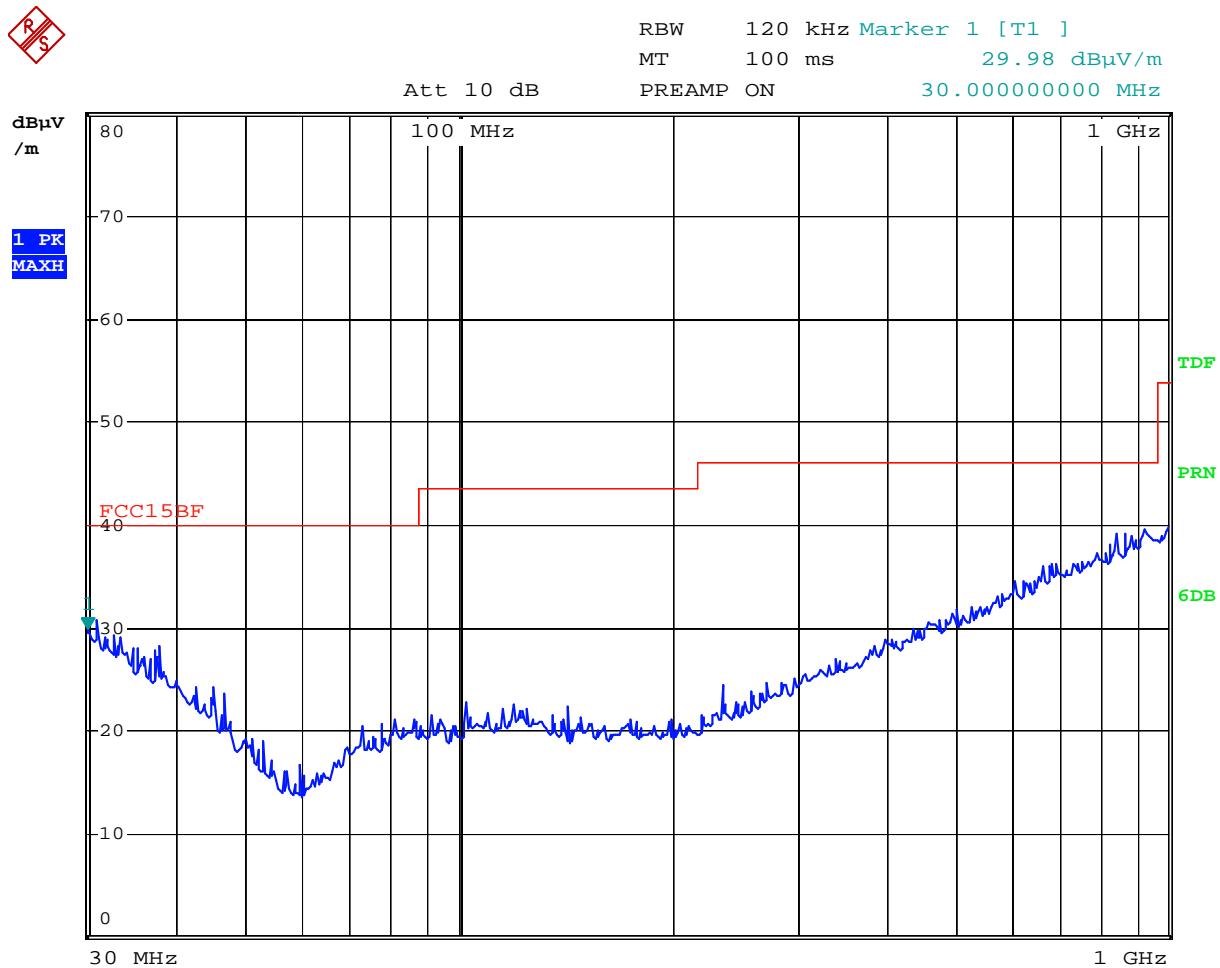
### Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting

Mode: Normal work

**Results: Pass**

Please refer to following diagram for individual



Date: 17.AUG.2010 08:06:10

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

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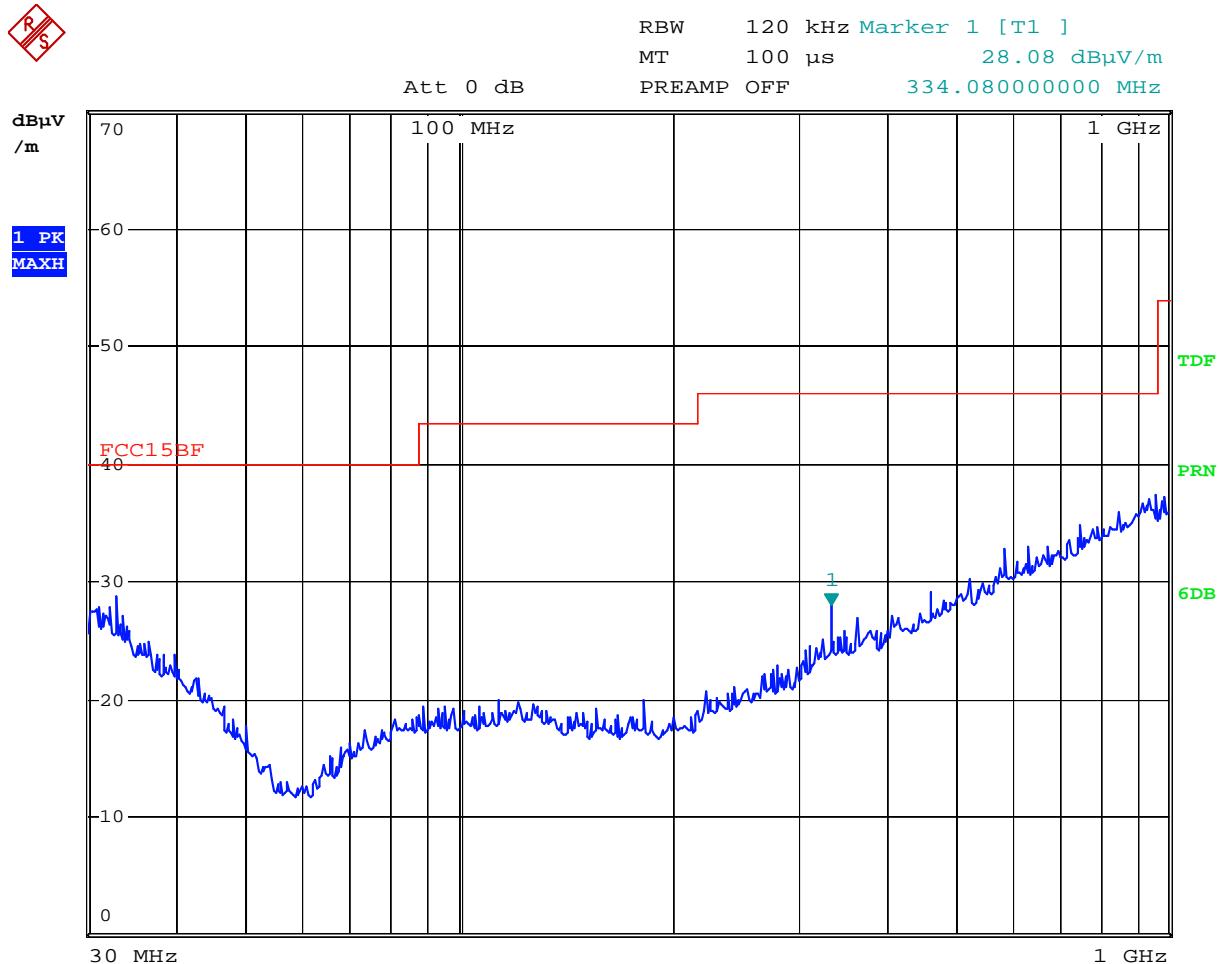
### Radiated Emission In Vertical (30MHz---1000MHz)

EUT set Condition: Keep transmitting

Mode: Normal work

**Results: Pass**

Please refer to following diagram for individual



Date: 20.JAN.2010 20:18:05

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

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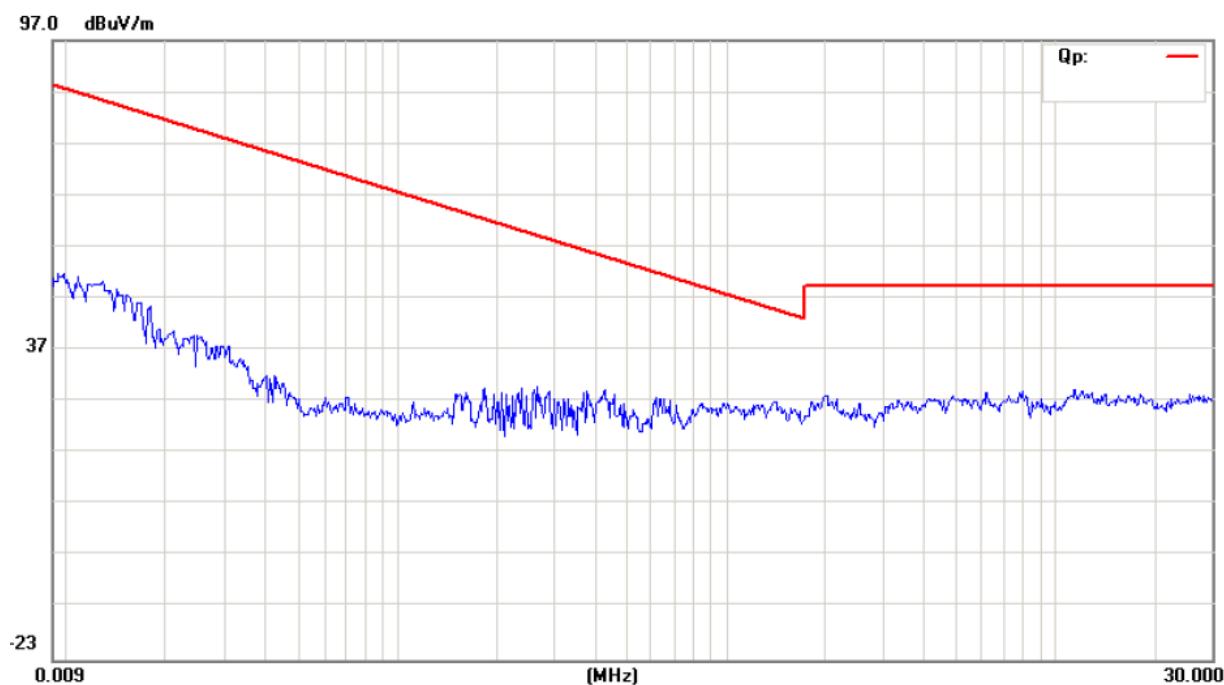
### Radiated Emission from 0.009MHz-30MHz

EUT set Condition: Keep transmitting

Mode: Low Channel

**Results: Pass**

Please refer to following diagram for individual



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

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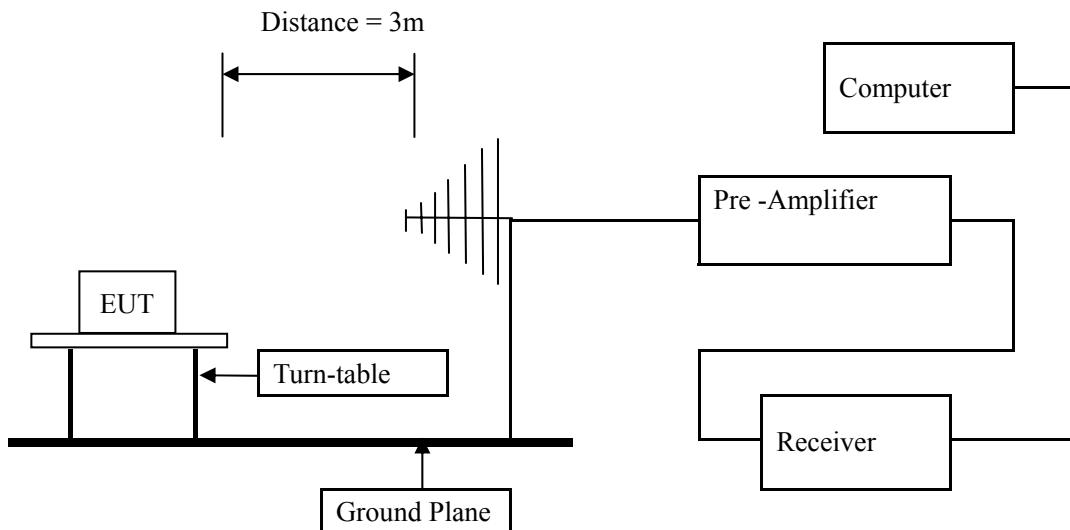


## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) Set Spectrum as RBW=VBW=1MHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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### 7.6 Test Result

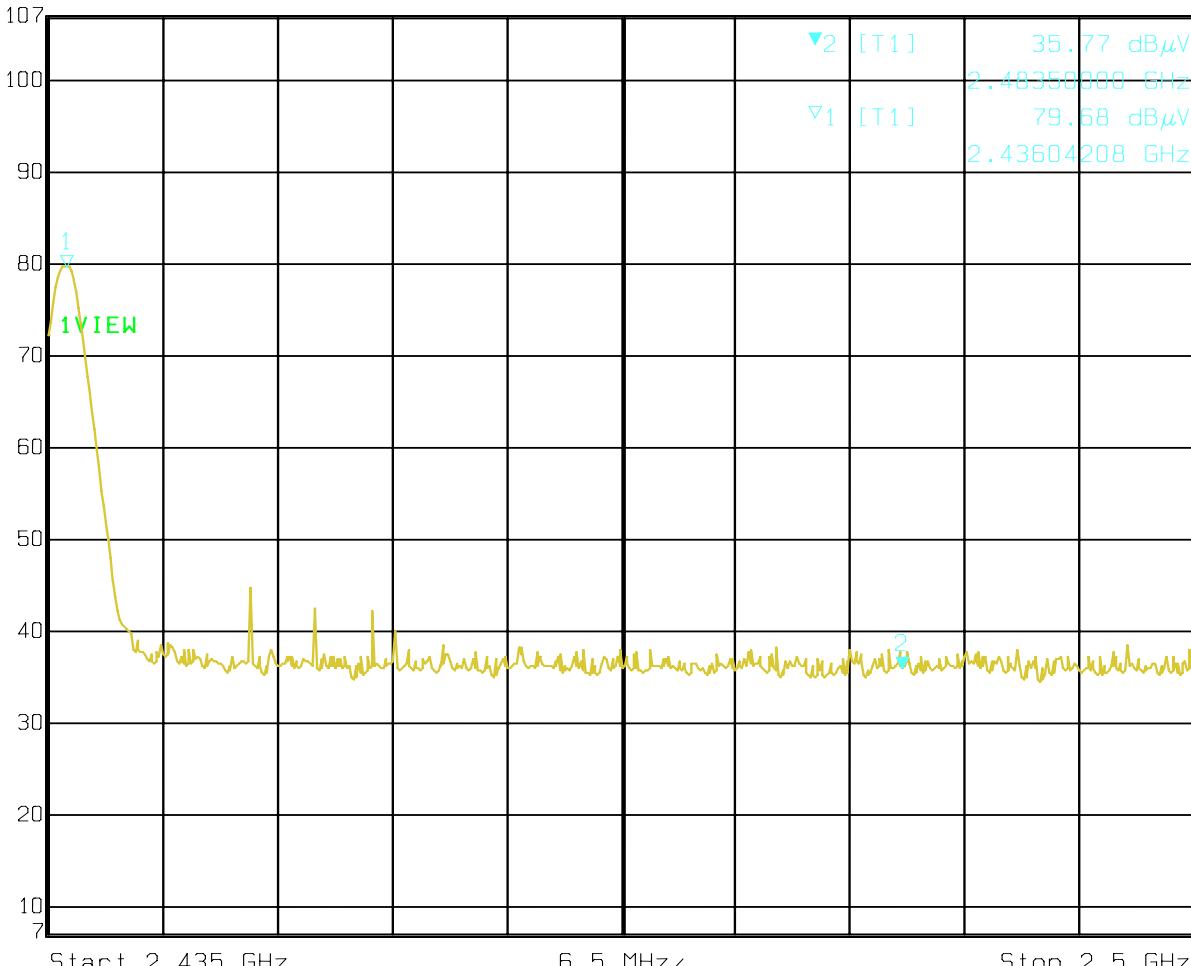
Product:	MAG GUN		Test Mode:	Low Channel	
Mode	Keeping Transmitting		Test Voltage	DC6V	
Temperature	24 deg. C		Humidity	56% RH	
Test Result:	Pass		Detector	PK	
2390MHz	PK (dB $\mu$ V/m)	Less than 40	Limit	74(dB $\mu$ V/m)	
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)	
 Ref Lvl 107 dB $\mu$ V			Marker 2 [T1]	RBW 1 MHz	RF Att 10 dB
36.27 dB $\mu$ V 2.39000000 GHz			Marker 1 [T1]	VBW 1 MHz	
82.39 dB $\mu$ V 2.43420040 GHz			SWT 5 ms	Unit	dB $\mu$ V
1VIEW Start 2.31 GHz      12.7 MHz/      Stop 2.437 GHz					
Date: 30.JUL.2010 17:44:00					

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Product:	MAG GUN		Test Mode:	High Channel			
Mode	Keeping Transmitting		Test Voltage	DC6V			
Temperature	24 deg. C,		Humidity	56% RH			
Test Result:	Pass		Detector	PK			
2483.5MHz	PK (dB $\mu$ V/m)	35.83	Limit	74(dB $\mu$ V/m)		54(dB $\mu$ V/m)	
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)			
 Ref Lvl 107 dB $\mu$ V			Marker 2 [T1]	RBW	1 MHz	RF Att	10 dB
35.77 dB $\mu$ V 2.48350000 GHz				VBW	1 MHz		
				SWT	5 ms	Unit	
							dB $\mu$ V
							
107 100 90 80 70 60 50 40 30 20 10 7							
Start 2.435 GHz      6.5 MHz/      Stop 2.5 GHz							
Date: 30.JUL.2010 17:54:18							

**Note:1. Field Strength in restrict band measured in conventional manner**

**2. Emission Level = Reading Level + Probe Factor + Cable Loss.**

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## 8.0 Antenna Requirement

### Applicable Standard

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.

Chip ceramic antenna. The maximum Gain of the antennas is -0.2dBi.

Test Result: Pass

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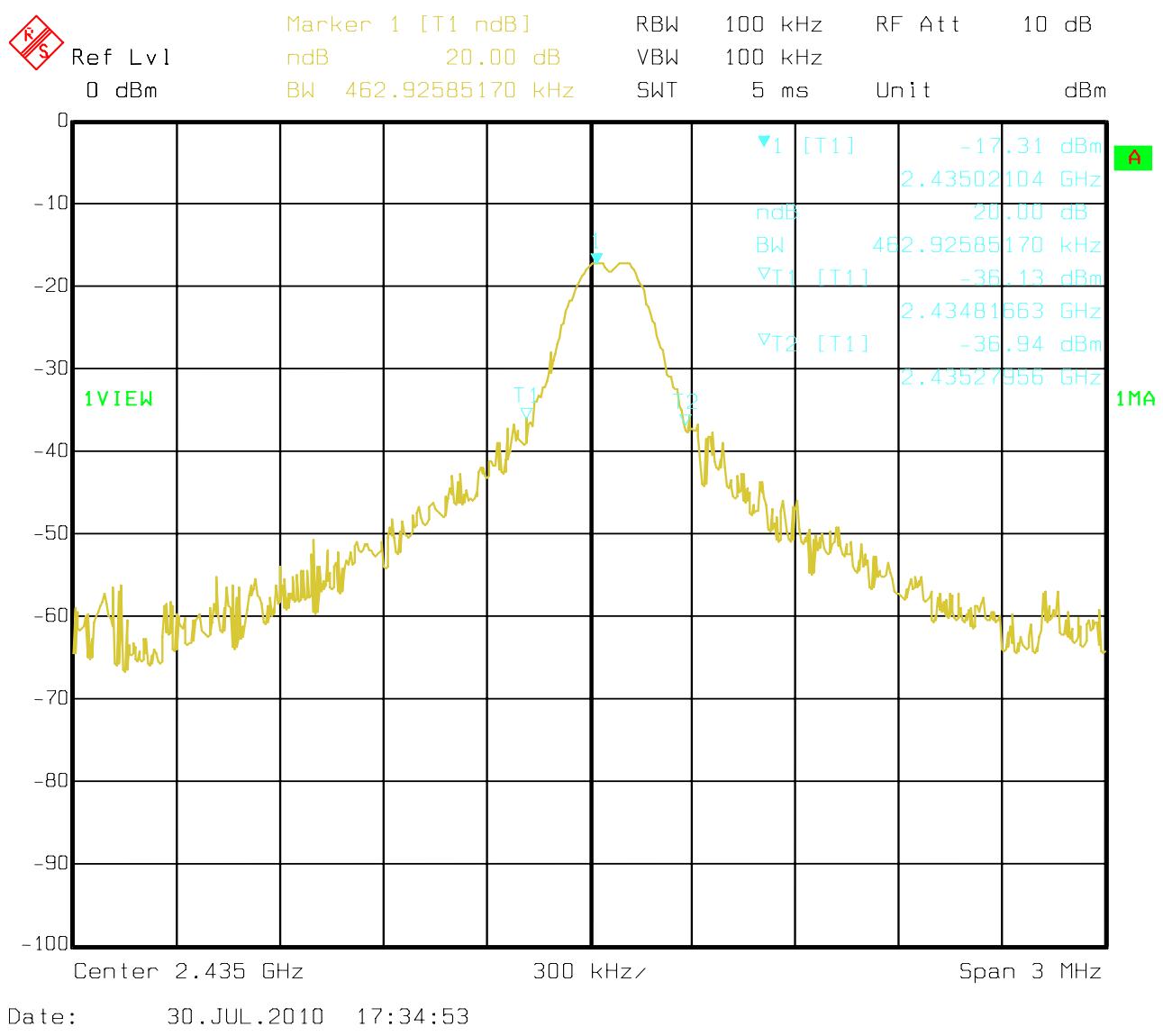
## 9.0 20dB Bandwidth Measurement

Product:	MAG GUN	Test Mode:	Low Channel					
Mode	Keeping Transmitting	Test Voltage	DC6V					
Temperature	24 deg. C,	Humidity	56% RH					
Test Result:	Pass	Detector	PK					
20dB Bandwidth	444.89KHz	--	--					
<img alt="RF Spectrum Analyzer screen showing a yellow waveform with markers. The screen includes text for Reference Level (0 dBm), Marker 1 (20.00 dB), BW (444.88977956 kHz), RBW (100 kHz), VBW (100 kHz), SW (5 ms), and Unit (dBm). The plot shows a signal peaking at 2.434 GHz with a 20 dB								



## 9.1 20dB Bandwidth Measurement

Product:	MAG GUN	Test Mode:	Middle Channel
Mode	Keeping Transmitting	Test Voltage	DC6V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	462.93KHz	--	--



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## 9.2 20dB Bandwidth Measurement

Product:	MAG GUN	Test Mode:	High Channel					
Mode	Keeping Transmitting	Test Voltage	DC6V					
Temperature	24 deg. C,	Humidity	56% RH					
Test Result:	Pass	Detector	PK					
20dB Bandwidth	468.94KHz	--	--					
<p>Date: 30.JUL.2010 17:31:01</p>								

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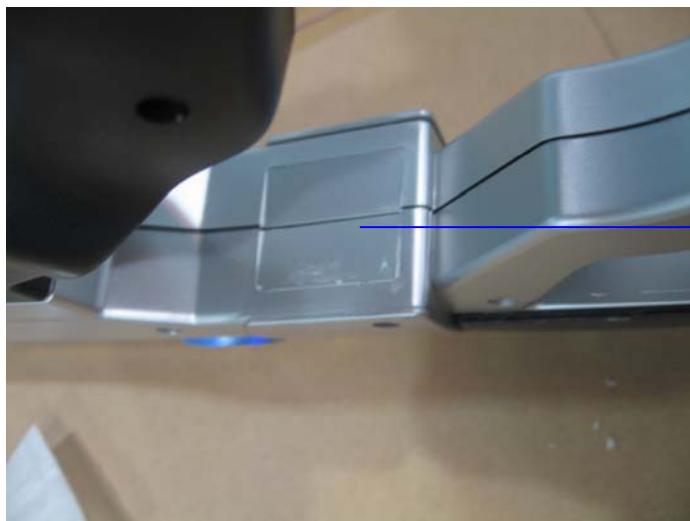
## 10.0 FCC ID Label

**FCC ID: YPWMCJB11P**

**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:



FCC ID Label Location

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## 11.0 Photo of testing

11.1 Conducted test View—N/A

11.2 Radiated emission test view



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11.3 Photo for the EUT

Outside of the EUT



Outside of the Controller

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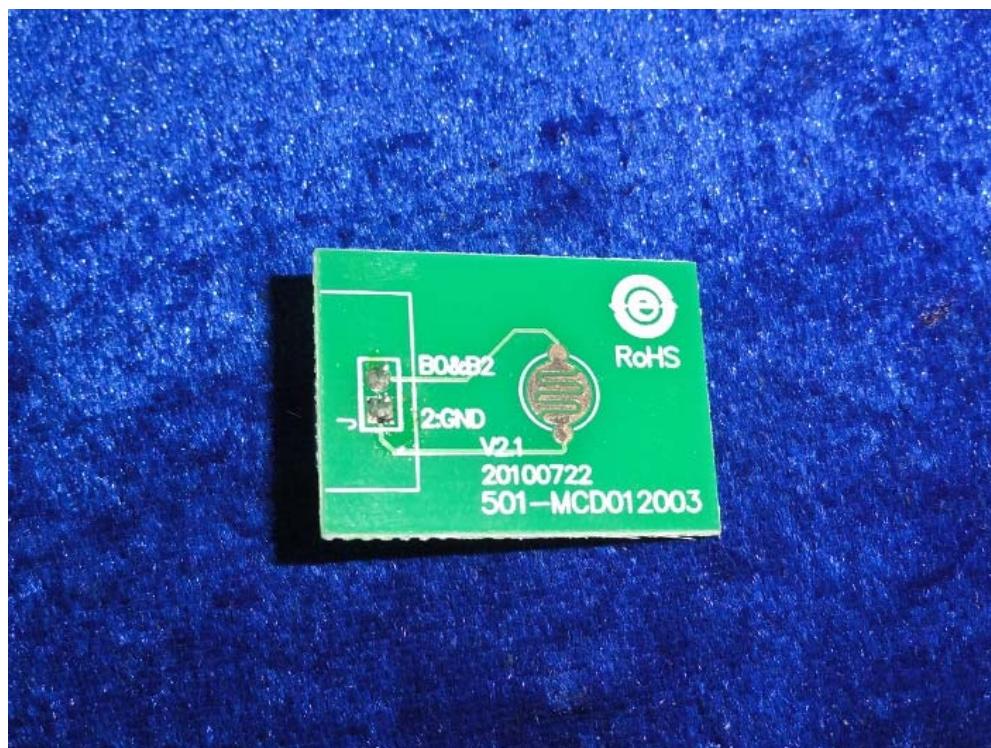


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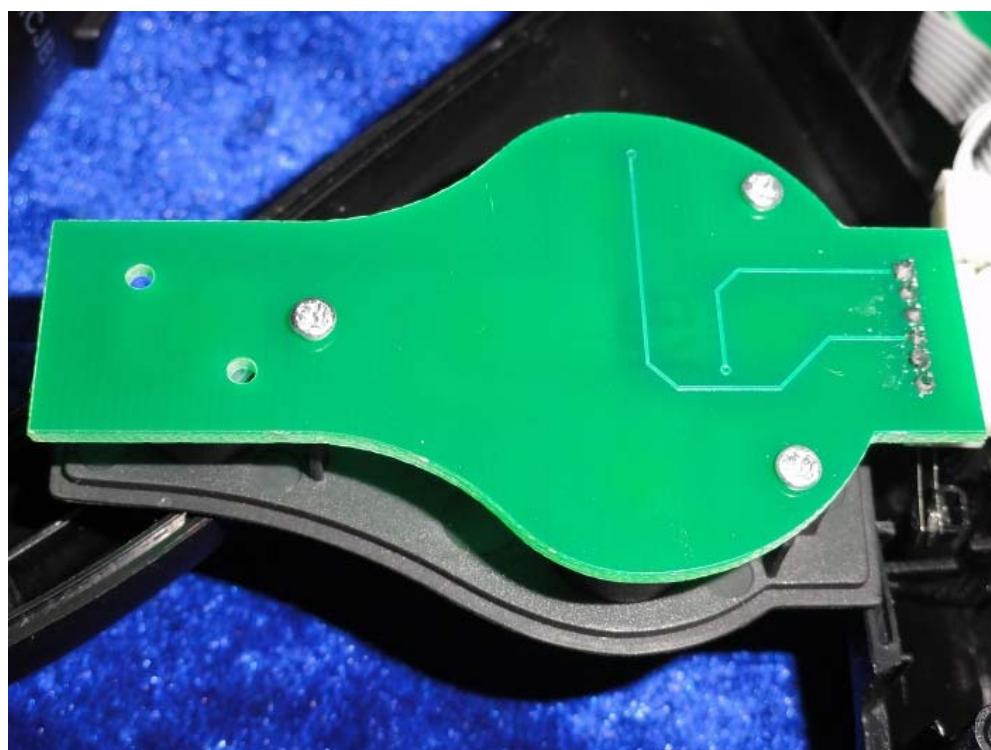


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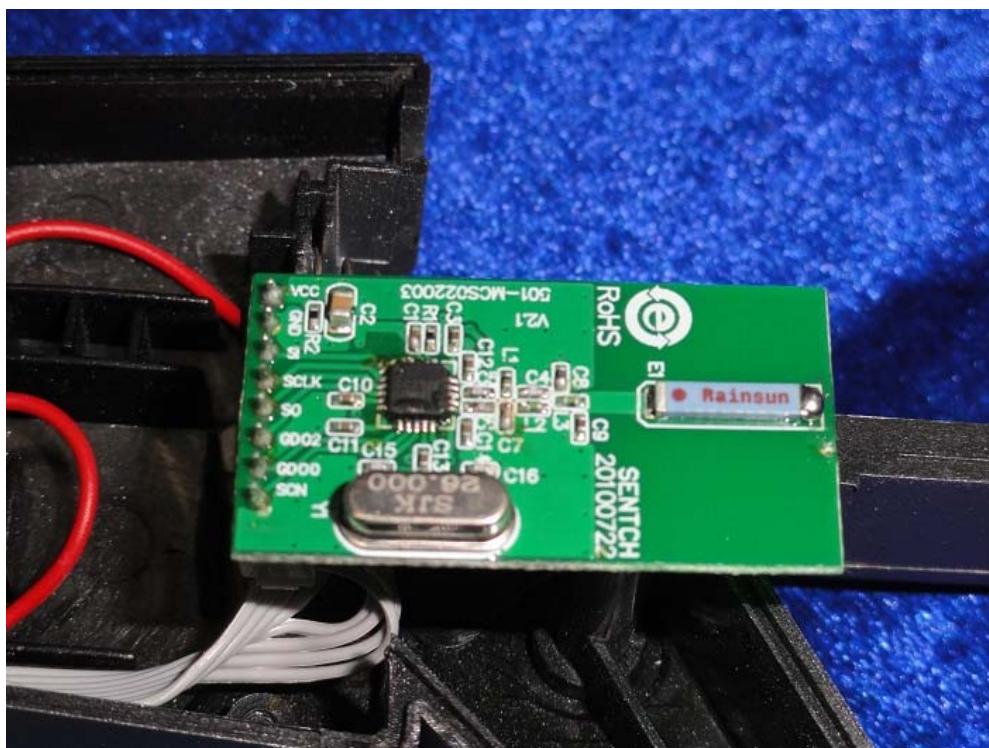


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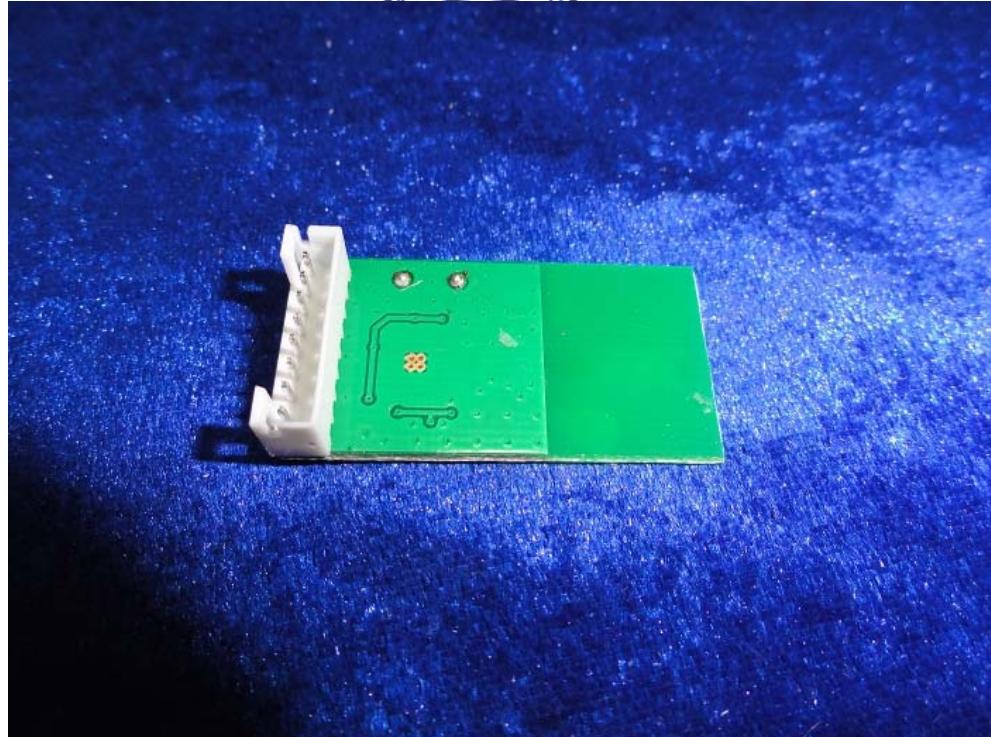


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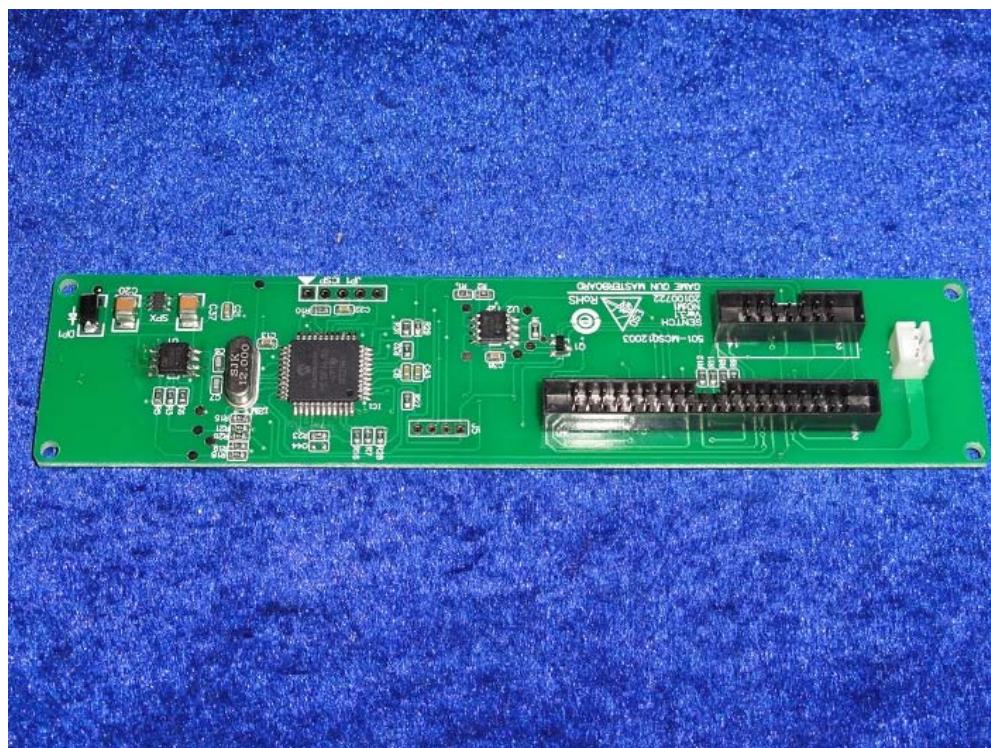
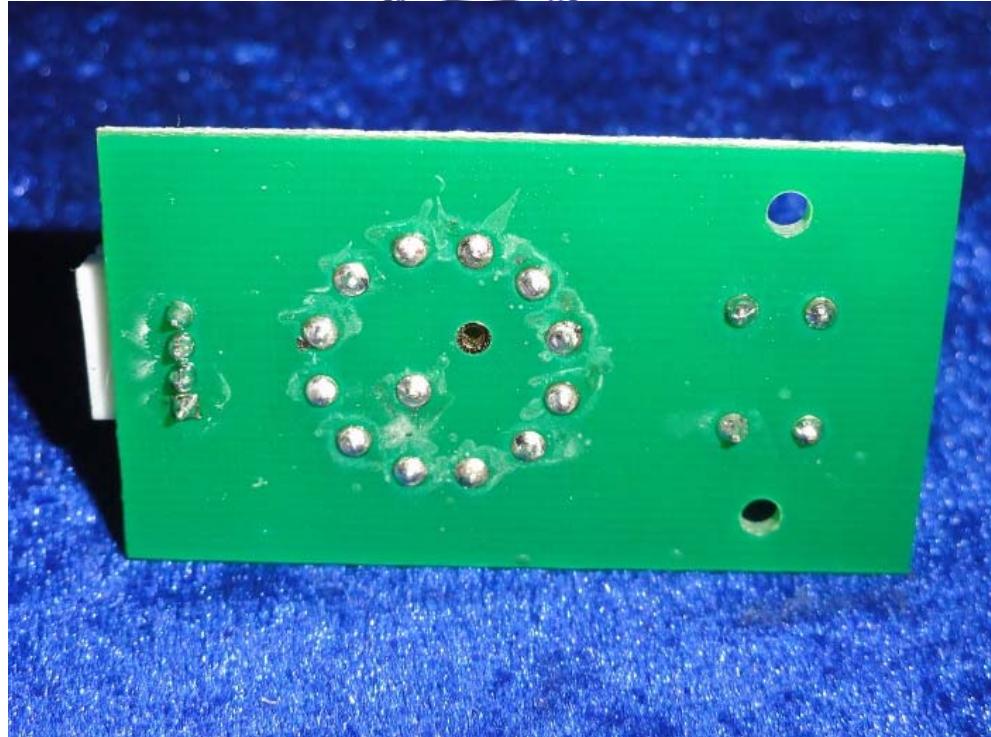


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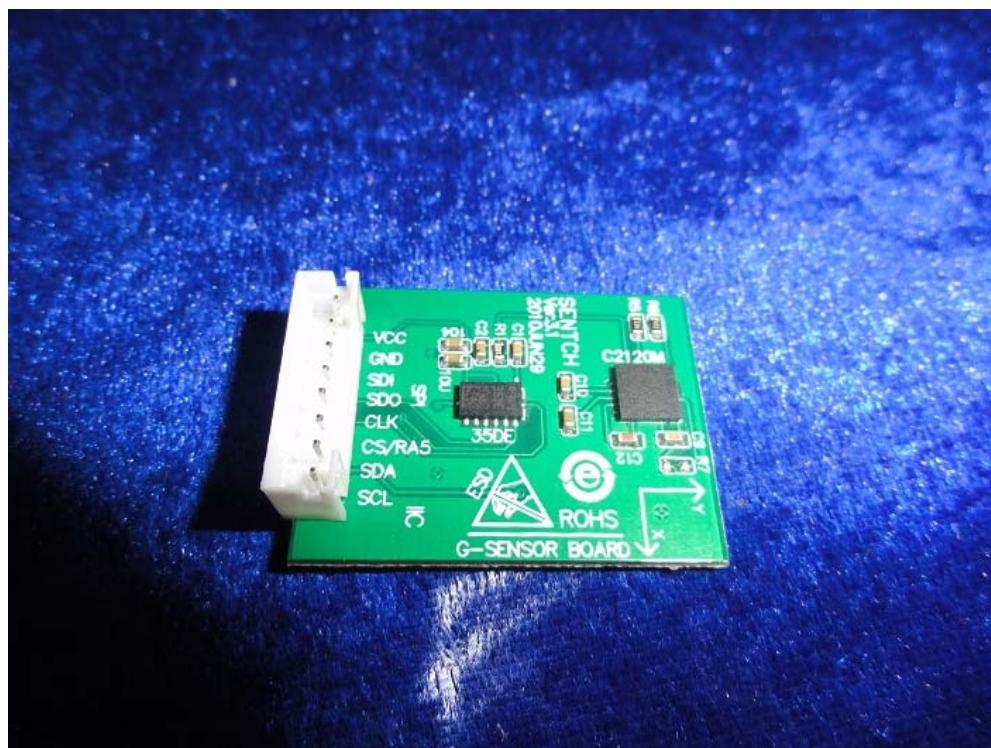
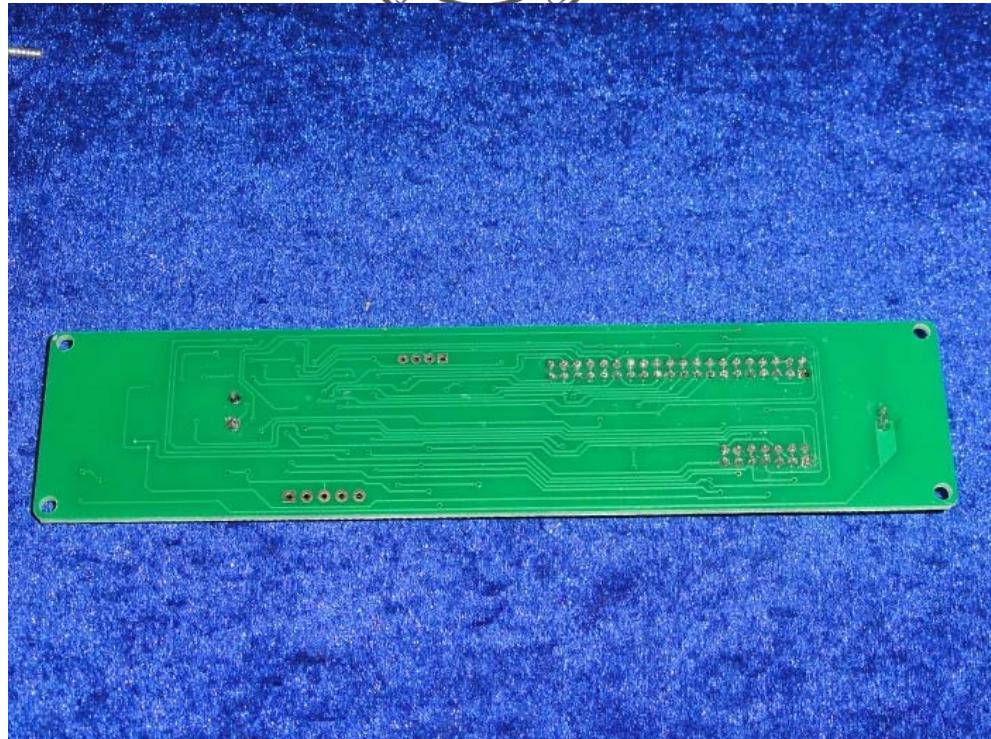


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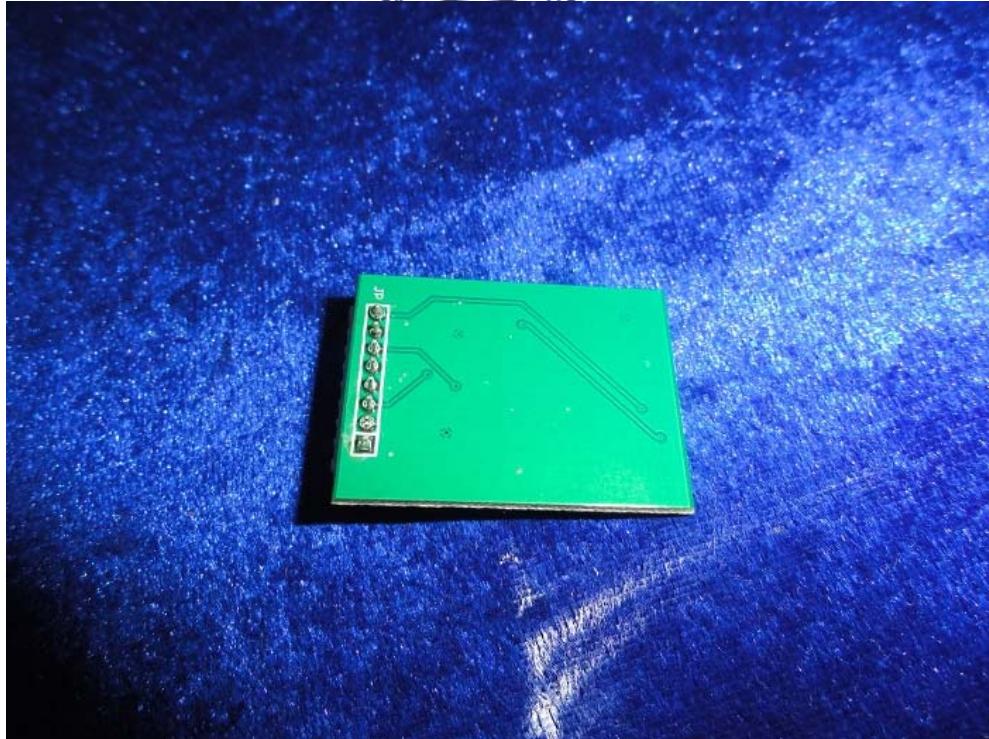


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