



卓時檢測  
TIMEWAY TESTING LABORATORY



NO.L2292

ISO/IEC17025 Accredited Lab.

Report No: FCC0607063

File reference No: 2006-09-27

Applicant: Wanlida Group Co., Ltd

Product: Wireless TV With TFT-LCD

Model No: LF-61001

Brand Name: MALATA, Polaroid, AUDIOVOX

Test Standards: FCC Part 15 Subpart E, Paragraph 15.407

Test result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart E, Paragraph 15.407 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated: Sep 27, 2006

**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**

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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 CNAL. This approval result is accepted by MRA of APLAC.

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

#### **CNAL-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 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.: IC5205**

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.: 5205.

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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  
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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: 5205  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Wanlida Group Co., Ltd  
Address: No.618, Jiahe Road, Wanlida Industry Zone, Xiamen.China. 361006  
Telephone: 86-0596-7653680-8516  
Fax: 86-0596-7662886

### 1.3 Description of EUT

Product: Wireless TV With TFT-LCD  
Manufacturer: Wanlida Group Co., Ltd  
Brand Name: MALATA, Polaroid, AUDIOVOX  
Model Number: LF-61001  
Additional Model Name FPE1070W  
Additional Trade Name N/A  
Rating: Adaptor Input : 100-240V~ 50/60Hz, 1.5A; Tx input: DC9.5V,  
Modulation Type: OFDM  
Operation Frequency 5180MHz, 5200 MHz, 5220 MHz, 5765 MHz, 5785 MHz, 5805 MHz  
Number of Channel 6  
Antenna Designation Two permanent fixed antennas, designed as an indispensable part of the EUT.  
The EUT employing a 802.11a/b/g mini PCI card. And only 6 channels provided to the EUT by software., so  
Do the transmitting rate

### 1.4 Submitted Sample

1 Sample

### 1.5 Test Duration

2006-08-28 to 2006-09-27

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## 1.6 Test Uncertainty

Conducted Emissions Uncertainty =  $\pm 3.0\text{dB}$ Radiated Emissions Uncertainty =  $\pm 6.0\text{dB}$ 

## 1.7 Test Engineer

Terry Tang

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

Print Name: Terry Tang

| 2.0                        | Test Equipments |            |            |              |            |
|----------------------------|-----------------|------------|------------|--------------|------------|
| Instrument Type            | Manufacturer    | Model      | Serial No. | Date of Cal. | Due Date   |
| Continuous Wave Simulator  | EM TEST         | CWS 500C   | 0407-05    | 2005-12-12   | 2006-12-11 |
| Ultra Compact Simulator    | EM TEST         | UCS 500 M4 | 0304-42    | 2005-12-12   | 2006-12-11 |
| ESPI Test Receiver         | ROHDE&SCHWARZ   | ESPI 3     | 100379     | 2005-12-01   | 2006-11-30 |
| TWO Line-V-NETW            | ROHDE&SCHWARZ   | EZH3-Z5    | 100294     | 2005-12-01   | 2006-11-30 |
| TWO Line-V-NETW            | ROHDE&SCHWARZ   | EZH3-Z5    | 100253     | 2005-12-01   | 2006-11-30 |
| Ultra Broadband ANT        | ROHDE&SCHWARZ   | HL562      | 100157     | 2005-12-01   | 2006-11-30 |
| ESDV Test Receiver         | ROHDE&SCHWARZ   | ESDV       | 100008     | 2006-03-31   | 2007-03-30 |
| 4-WIRE ISN                 | ROHDE&SCHWARZ   | ENY 41     | 830663/044 | 2006-02-20   | 2007-02-19 |
| GG ENY22 Double 2-Wire ISN | ROHDE&SCHWARZ   | ENY22      | 83066/016  | 2006-02-20   | 2007-02-19 |
| Impuls-Begrenzer           | ROHDE&SCHWARZ   | ESH3-Z2    | 100281     | 2006-02-20   | 2007-02-19 |
| System Controller          | CT              | SC100      | -          | -            | -          |
| Printer                    | EPSON           | PHOTO EX3  | CFNH234850 | 2006-02-20   | 2007-02-19 |
| FM-AM Signal Generator     | JUNG.JIN        | SG-150M    | 389911177  | 2006-02-20   | 2007-02-19 |
| Color TV Pattern Generator | PHILIPS         | PM5418     | LO621747   | 2006-02-20   | 2007-02-19 |

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|                                 |                        |           |                   |            |            |
|---------------------------------|------------------------|-----------|-------------------|------------|------------|
| Computer                        | IBM                    | 8434      | 1S8434KCE99BLXLO* | -          | -          |
| Oscillator                      | KENWOOD                | AG-203D   | 3070002           | 2006-02-24 | 2007-02-23 |
| Spectrum Analyzer               | HAMEG                  | HM5012    | -                 | -          | -          |
| Power Supply                    | LW                     | APS1502   | -                 | -          | -          |
| 5K VA AC Power Source           | California Instruments | 5001iX    | 56060             | 2006-02-20 | 2007-02-19 |
| CDN                             | EM TEST                | CDN M2/M3 | -                 | 2006-02-20 | 2007-02-19 |
| Attenuation                     | EM TEST                | ATT6/75   | -                 | 2006-02-20 | 2007-02-19 |
| Resistance                      | EM TEST                | R100      | -                 | 2006-02-20 | 2007-02-19 |
| Electromagnetic Injection Clamp | LITTHI                 | EM101     | 35708             | 2006-02-20 | 2007-02-19 |
| Inductive Components            | EM TEST                | MC2630    | -                 | 2006-02-20 | 2007-02-19 |
| Antenna                         | EM TEST                | MS100     | -                 | 2006-02-20 | 2007-02-19 |
| Signal Generator                | ROHDE&SCHWARZ          | SMT03     | 100029            | 2006-02-06 | 2007-02-05 |
| Power Amplifier                 | AR                     | 150W1000  | 300999            | 2006-02-06 | 2007-02-05 |
| Field probe                     | Holaday                | HI-6005   | 105152            | 2006-02-06 | 2007-02-05 |
| Bilog Antenna                   | Chase                  | CBL6111C  | 2576              | 2006-02-06 | 2007-02-05 |
| Loop Antenna                    | EMCO                   | 6502      | 00042960          | 2006-02-06 | 2007-02-05 |
| ESPI Test Receiver              | ROHDE&SCHWARZ          | ESI26     | 838786/013        | 2006-02-06 | 2007-02-05 |
| 3m OATS                         | --                     | --        | N/A               | 2006-02-06 | 2007-02-05 |

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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    |
| FCC Part 15, Paragraph 15.407                                      | Conducted Emission Test                    | PASS   | Complies |
| FCC Part 15 Subpart E Paragraph 15.407(b)(1/2/3) (b)(5)            | Electric Field Strength Spurious Emissions | PASS   | Complies |
| FCC Part 15, Paragraph 15.407(a)(1/2/3)                            | Peak Transmit Power                        | PASS   | Complies |
| FCC Part 15 Subpart E Paragraph 15.407(a)(6)                       | Peak Power Excursion                       | PASS   | Complies |
| FCC Part 15 Subpart E Paragraph 15.407(a)(1/2/3)                   | Peak Power Spectral Density                | PASS   | Complies |
| FCC Part 15 Subpart E Paragraph 15.407(g)                          | Frequency Stability                        | PASS   | Complies |

#### 3.2 Test Standards

FCC Part 15 Subpart E, Paragraph 15.407

#### 4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

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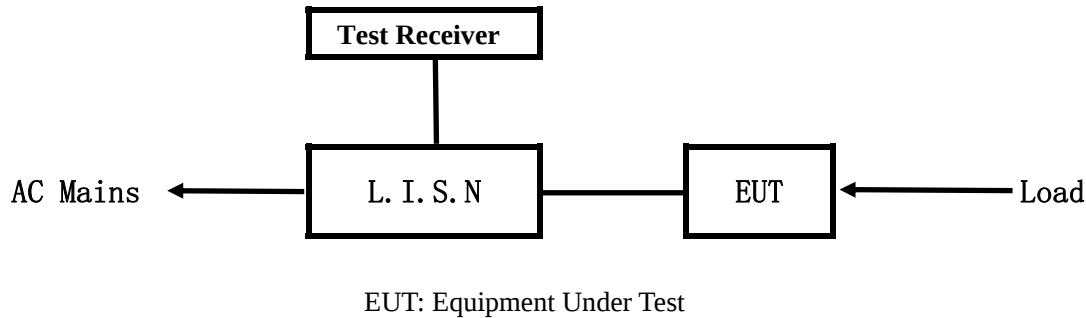
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## 5. Power Line Conducted Emission Test

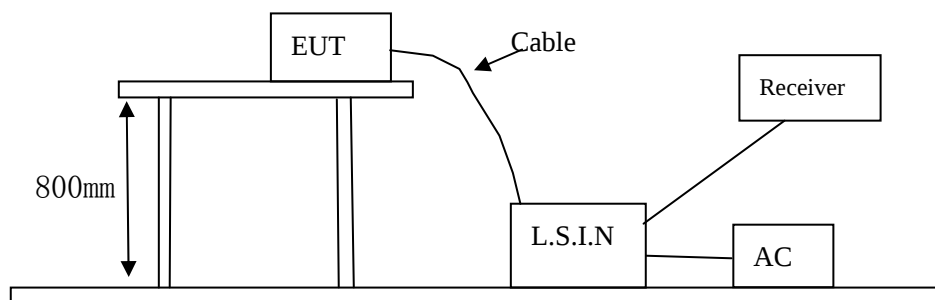
### 5.1 Schematics of the test



### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2001. 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 –2001.

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2001. 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      |
|-----------------------------|------------------------|----------|-------------|
| Wireless TV<br>With TFT-LCD | Wanlida Group Co., Ltd | LF-61001 | SMFLF-61001 |

#### 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 -2001.

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 15.407

| 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.

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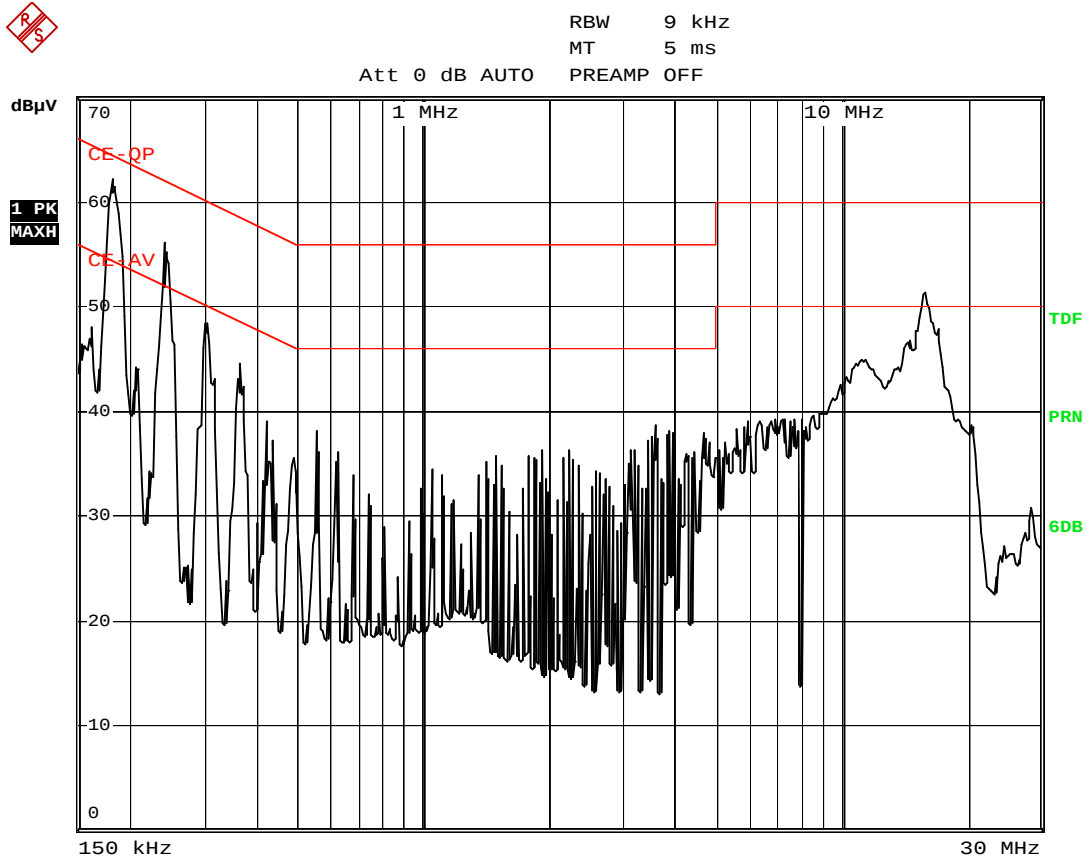


## A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Keep Tx On at CH6

Results: Pass

Please refer to following diagram for individual



Date: 27.SEP.2006 13:56:37

| Frequency<br>(MHz) | Reading(dB μ V) |         |            |         | Limit<br>(dB μ V) |         |
|--------------------|-----------------|---------|------------|---------|-------------------|---------|
|                    | Line            |         | Neutral    |         |                   |         |
|                    | Quasi-peak      | Average | Quasi-peak | Average | Quasi-peak        | Average |
| 0.182              | 57.18           | 40.45   | -          | -       | 64.4              | 54.4    |
| 0.242              | 49.51           | 32.04   | -          | -       | 62.0              | 52.0    |
| 0.306              | 42.95           | 28.96   | -          | -       | 60.1              | 50.1    |
| 0.316              | 36.99           | 22.46   | -          | -       | 59.8              | 49.8    |
| 15.816             | 48.65           | 35.63   | -          | -       | 60.0              | 50.0    |

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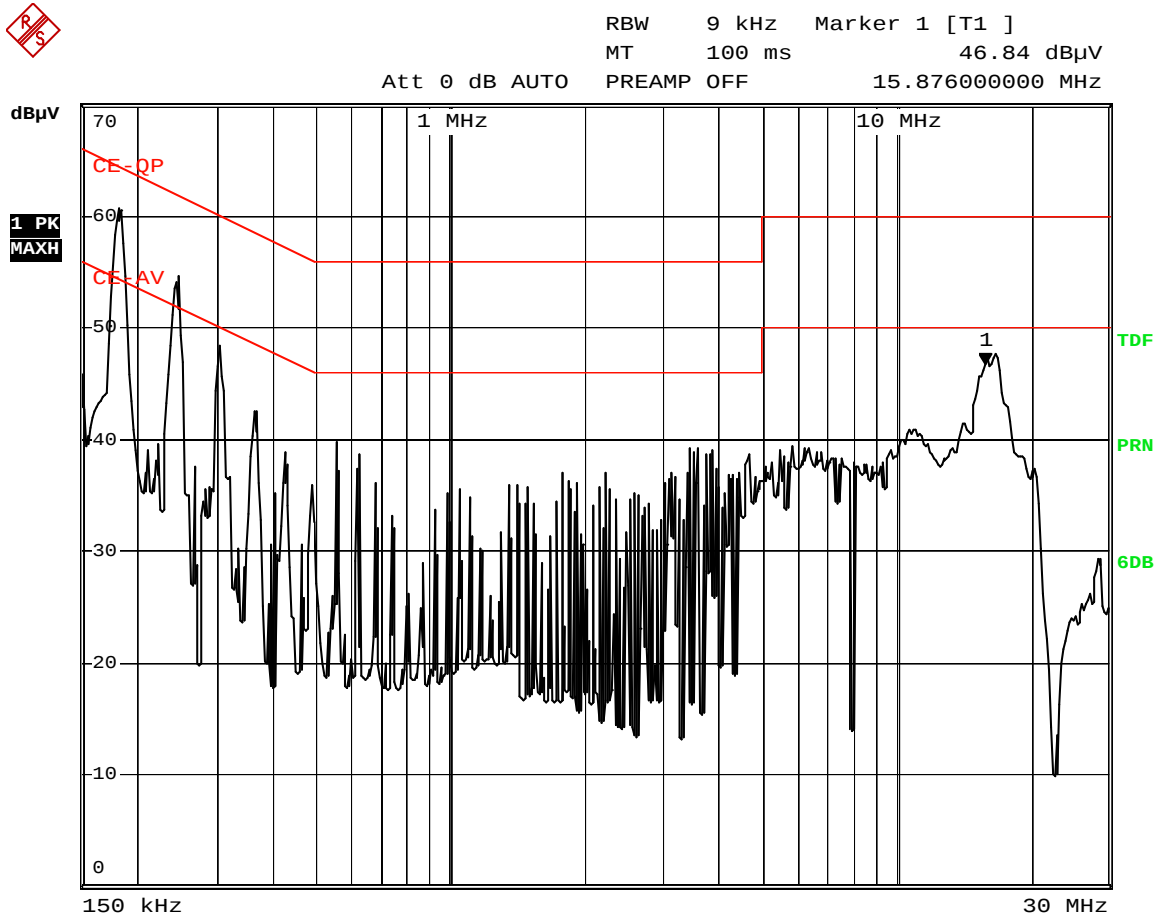


## B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Normal operation on channel 1 position

**Results: Pass**

Please refer to following diagram for individual



Date: 27.SEP.2006 14:01:17

| Frequency<br>(MHz) | Reading(dB μ V) |         |            |         | Limit<br>(dB μ V) |         |
|--------------------|-----------------|---------|------------|---------|-------------------|---------|
|                    | Line            |         | Neutral    |         | Quasi-peak        | Average |
|                    | Quasi-peak      | Average | Quasi-peak | Average |                   |         |
| 0.186              | -               | -       | 56.17      | 45.86   | 64.2              | 54.2    |
| 0.246              | -               | -       | 49.88      | 41.62   | 61.9              | 51.9    |
| 0.306              | -               | -       | 41.86      | 31.32   | 60.1              | 50.1    |
| 0.366              | -               | -       | 34.38      | 26.16   | 58.6              | 48.6    |
| 16.864             | -               | -       | 46.00      | 31.76   | 60.0              | 50.0    |

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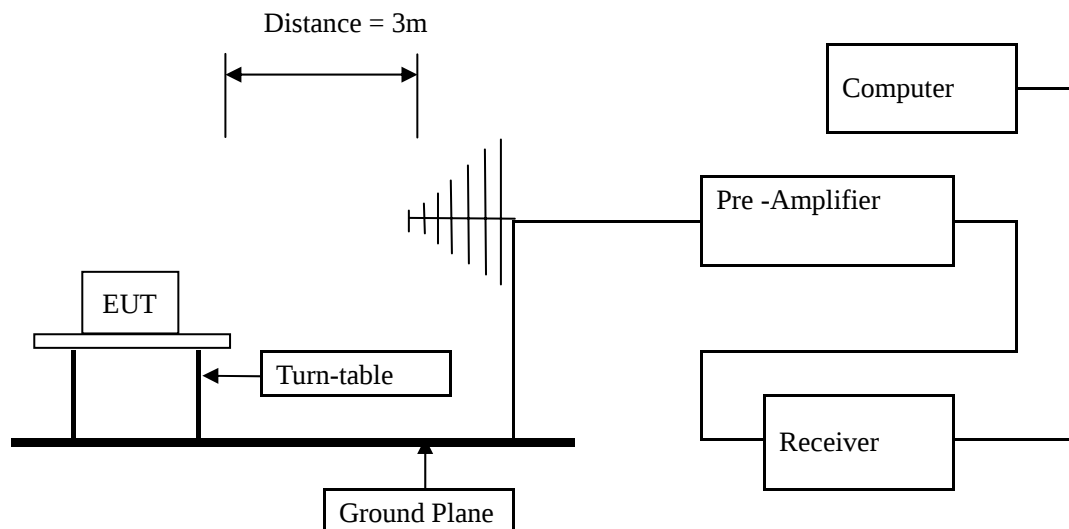


## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2001. 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 C63.4-2001.
- (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) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. 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 of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup



- 6.2 Configuration of The EUT  
Same as section 5.3 of this report

- 6.3 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:

##### 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           | 300          | 2400/F(kHz)                   |
| 0.490-1.705           | 30           | 24000/F(kHz)                  |
| 1.705-30.0            | 30           | 30                            |
| 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 ( $\mu$ V)
  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. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

##### Limits of Unwanted emission out of the Restricted Bands

| Frequencies (MHz) | EIRP Limit (dBm) | Equivalent Field Strength at 3m (dB $\mu$ V/m) *note 3 |
|-------------------|------------------|--------------------------------------------------------|
| 5150~5250         | -27              | 68.3                                                   |
| 5250~5350         | -27              | 68.3                                                   |
| 5725~5825         | -27 *note 1      | 68.3                                                   |
|                   | -17 *note 2      | 78.3                                                   |

**Note:**

1. For frequencies 10MHz or greater above or below the band edge.
2. All emissions within the frequency range from the band edge to 10MHz above or below the band edge.
3. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

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## 6.5 Test result

### A Radiated Emission Data Above 1G

|               |                                    |              |                             |
|---------------|------------------------------------|--------------|-----------------------------|
| Product:      | Wireless TV With TFT-LCD           | Test Mode:   | Keep Tx Transmitting on CH1 |
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25℃                         |
| Test Voltage: | 120V, 60Hz                         | Humidity:    | 56%                         |
| Test Result:  | Pass                               |              |                             |

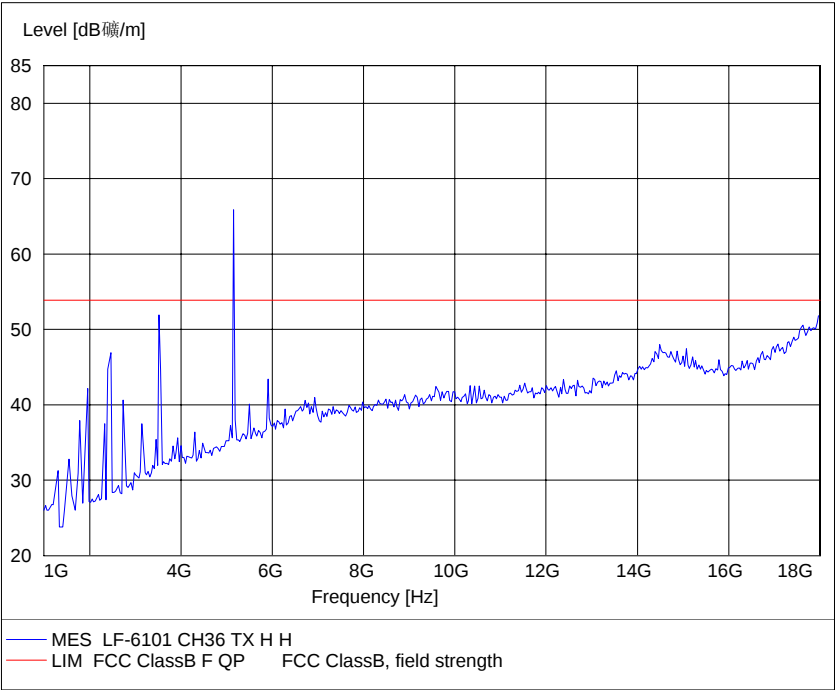
| Frequency (MHz) | Emission PK/AV (dBuV/m) | Horiz / Vert | Limits PK/AV (dBuV/m) | Margin (dB) |
|-----------------|-------------------------|--------------|-----------------------|-------------|
| 5180            | 91.1/73.5               | Horizontal   | --                    | --          |
| 5180            | 87.2/69.5               | Vertical     | --                    | --          |
| 3538.878        | 55.1/52.4               | Vertical     | 74/54                 | -18.9/-1.6  |
| 3538.878        | 55.3/52.9               | Horizontal   | 74/54                 | -18.7/-1.1  |
|                 |                         |              |                       |             |

- 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

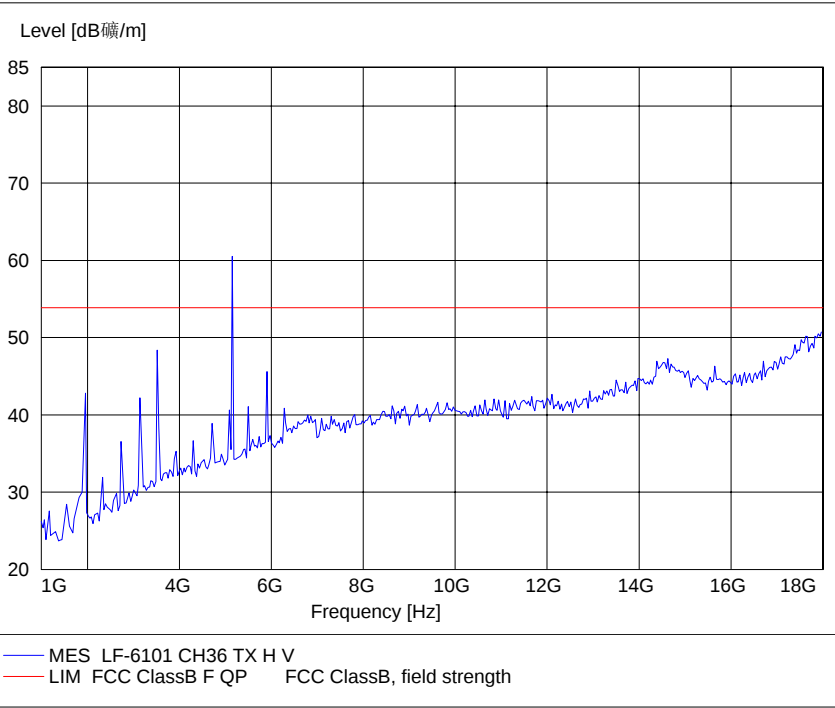


Test Plot:

Horizontal



Vertical:



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|               |                                    |              |                             |
|---------------|------------------------------------|--------------|-----------------------------|
| Product:      | Wireless TV With TFT-LCD           | Test Mode:   | Keep Tx Transmitting on CH4 |
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                        |
| Test Voltage: | 120V, 60Hz                         | Humidity:    | 56%                         |
| Test Result:  | Pass                               |              |                             |

| Frequency<br>(MHz) | Emission PK/AV<br>(dBuV/m) | Horiz /<br>Vert | Limits PK/AV<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------|-----------------|--------------------------|----------------|
| 5220               | 94.5/73.9                  | Horizontal      | --                       | --             |
| 5220               | 91.2/71.0                  | Vertical        | --                       | --             |
| 3538.878           | 54.9/52.6                  | Vertical        | 74/54                    | -19.1/-1.4     |
| 3538.878           | 55.2/53.0                  | Horizontal      | 74/54                    | -18.8/-1.0     |

- 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

The report refers only to the sample tested and does not apply to the bulk.

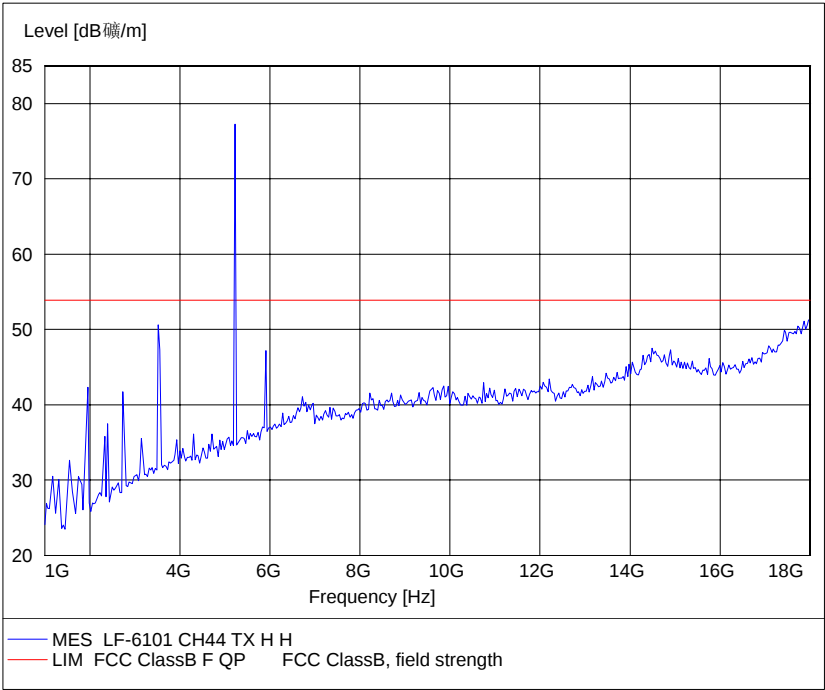
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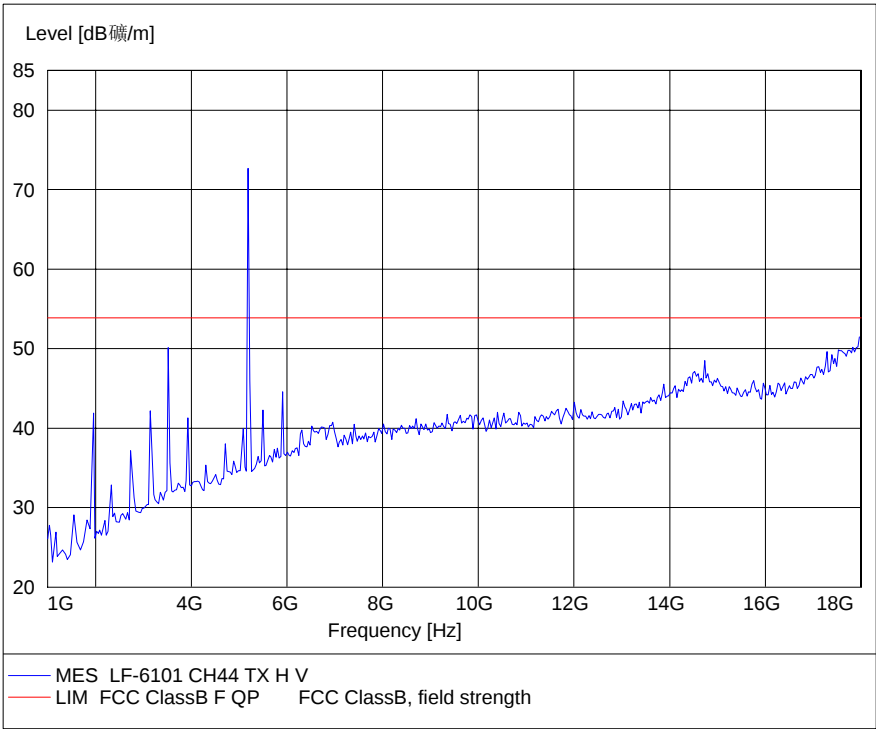


Test Plot:

Horizontal



Vertical:



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|               |                                    |              |                             |
|---------------|------------------------------------|--------------|-----------------------------|
| Product:      | Wireless TV With TFT-LCD           | Test Mode:   | Keep Tx Transmitting on CH6 |
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                        |
| Test Voltage: | 120V, 60Hz                         | Humidity:    | 56%                         |
| Test Result:  | Pass                               |              |                             |

| Frequency<br>(MHz) | Emission PK/AV<br>(dBuV/m) | Horiz /<br>Vert | Limits PK/AV<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------|-----------------|--------------------------|----------------|
| 5805               | 97.8/80.5                  | Horizontal      | --                       | --             |
| 5805               | 91.9/74.2                  | Vertical        | --                       | --             |
| 2412.525           | 53.6/25.8                  | Horizontal      | 74/54                    | -20.4/-28.2    |
| 3538.878           | 53.9/51.5                  | Horizontal      | 74/54                    | -20.1/-2.5     |
| 3538.837           | 53.8/51.2                  | Vertical        | 74/54                    | -20.2/-2.8     |

- 
- 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

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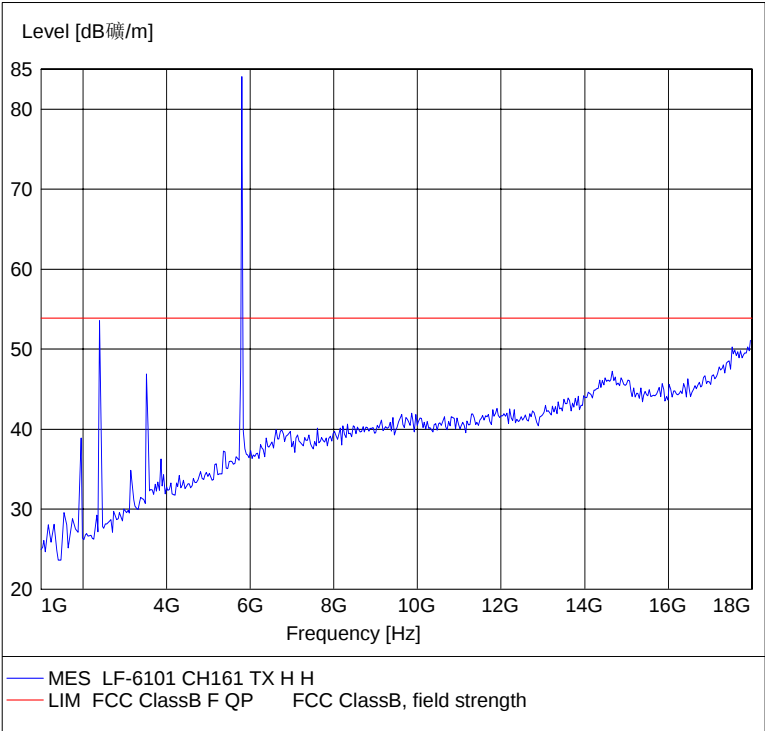
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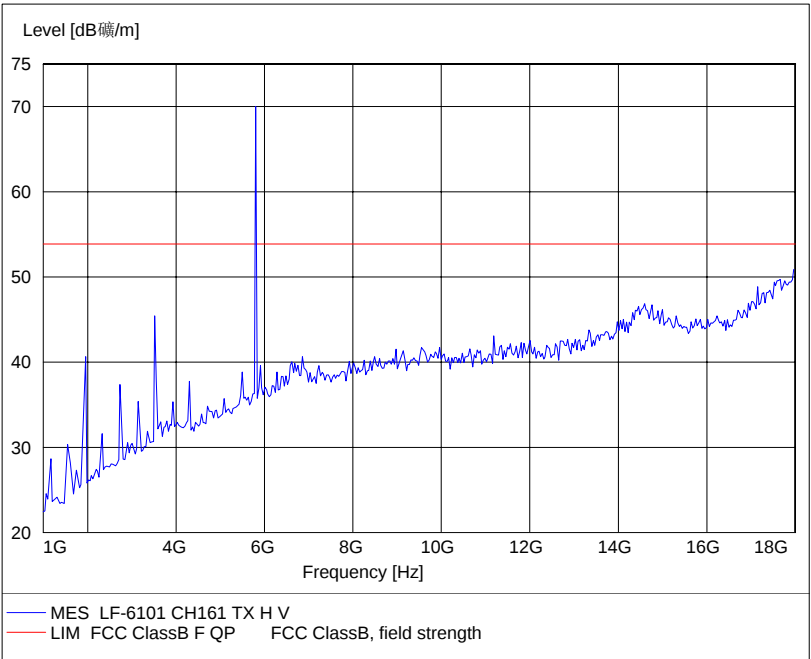


Test Plot:

Horizontal



Vertical:



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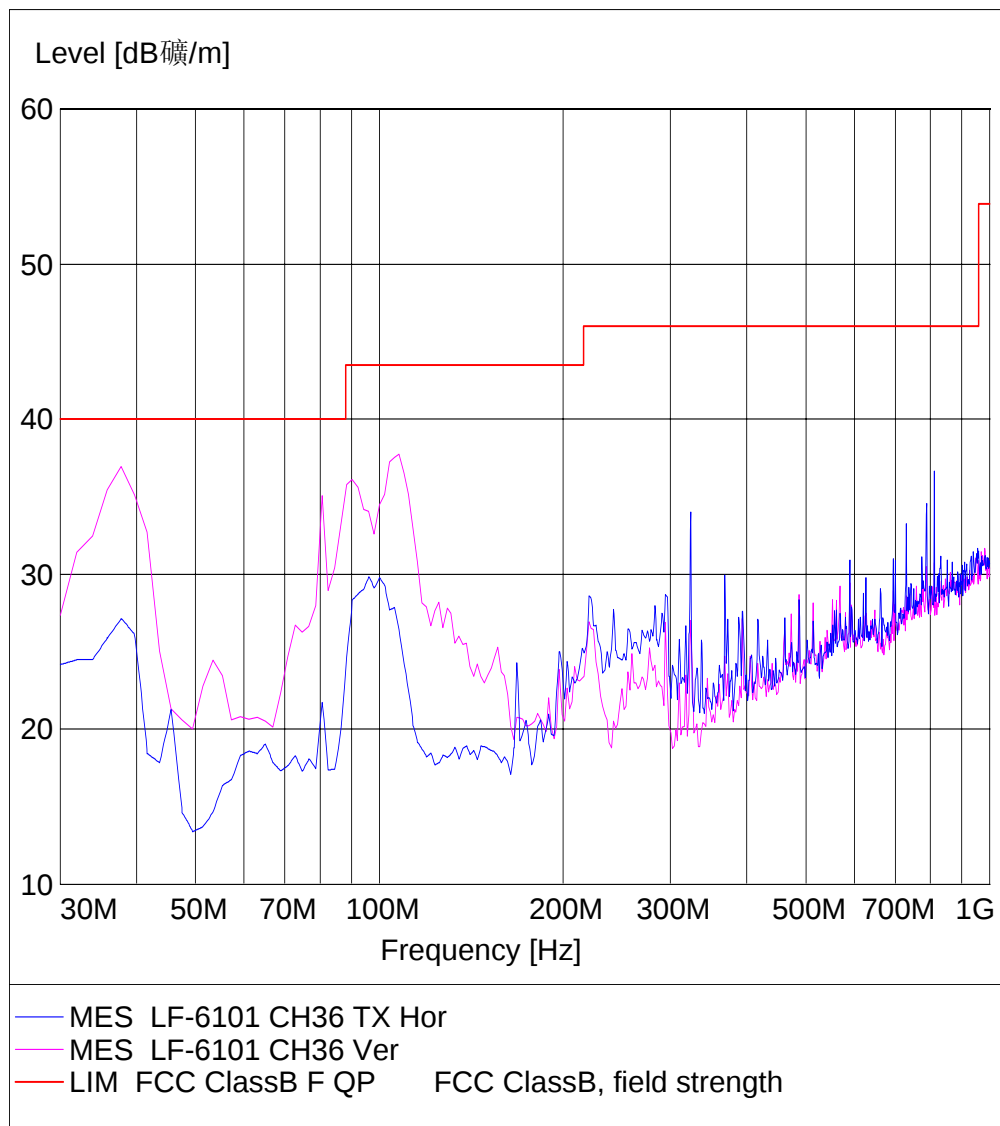


**B. General Radiated Emission Data Below 1G**  
**Radiated Emission In Horizontal & Vertical (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting on CH1

**Results: Pass**

Please refer to following diagram for individual



| Frequency (MHz) | Level@3m (dB μV/m) | Antenna Polarity | Limit@3m (dB μV/m) |
|-----------------|--------------------|------------------|--------------------|
| 38.132          | 32.8               | V                | 40.0               |
| 107.893         | 33.4               | V                | 43.5               |

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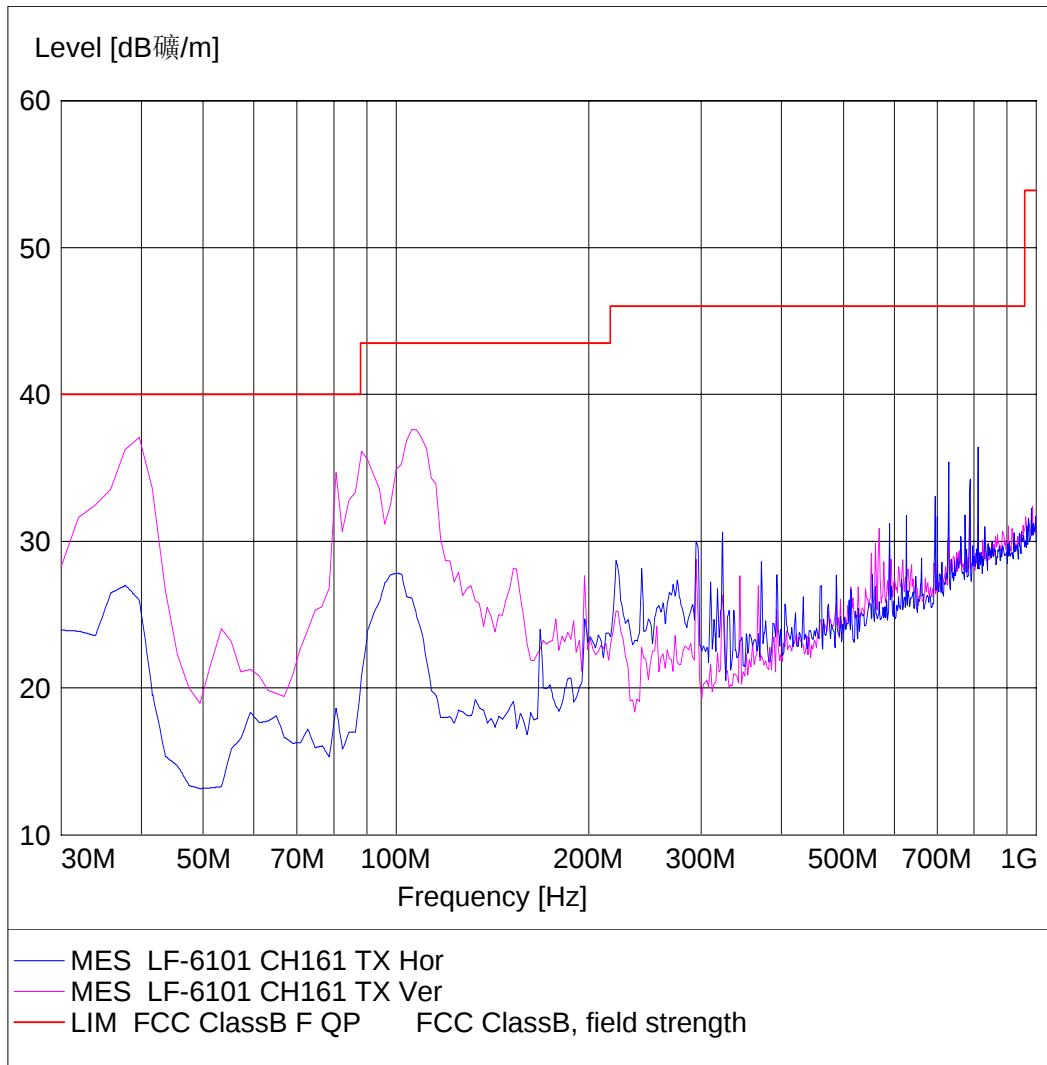


# **Radiated Emission In Horizontal & Vertical (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting On CH3

**Results: Pass**

Please refer to following diagram for individual



| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|---------------------|------------------|---------------------|
| 39.355          | 32.7                | V                | 40.00               |
| 107.785         | 33.2                | V                | 43.50               |

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## 7.0 Peak Transmit Power Measurement

### 7.1 Limits of Peak Transmit Power Measurement

| Frequency Band   | Limit                                         |
|------------------|-----------------------------------------------|
| 5.15 – 5.25GHz   | The lesser of 50mW (17dBm) or 4dBm + 10logB   |
| 5.25 – 5.35GHz   | The lesser of 250mW (24dBm) or 11dBm + 10logB |
| 5.725 – 5.825GHz | The lesser of 1W (30dBm) or 17dBm + 10logB    |

**Note :** Where B is the 26dB emission bandwidth in MHz.

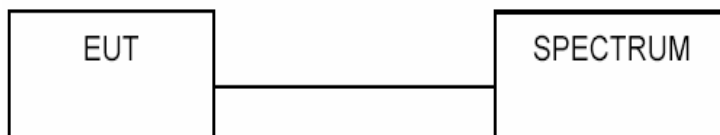
### 7.2 Test Procedure

1. The transmitter output was connected to the spectrum analyzer.
2. Set span to encompass the entire emission bandwidth of the signal.
3. Set RBW to 1MHz, VBW to 300kHz.
4. Using the spectrum analyzer's channel power measurement function to measure the output power.

**NOTE:** The test is performed in accordance with FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices – Part 15, Subpart E, August 2002.

The transmitter output operates continuously therefore Method # 1 is used.

### 7.3 Test Setup



### 7.4 EUT Operation Conditions

EUT under transmission condition continuously at specific channel frequencies individually.

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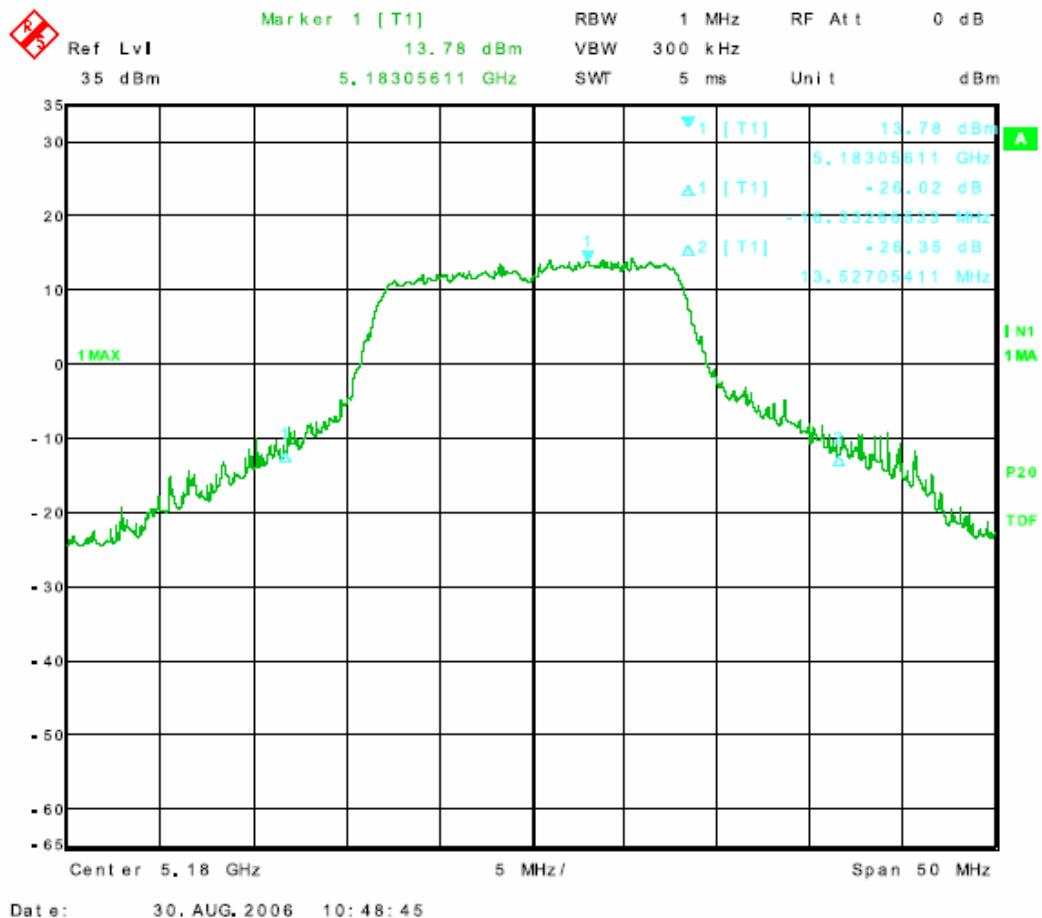
## 7.5 Test Result

|               |                                    |              |                      |
|---------------|------------------------------------|--------------|----------------------|
| Product:      | Wireless TV With TFT-LCD           | Test Mode:   | Keep Tx Transmitting |
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                 |
| Test Voltage: | 120V, 60Hz                         | Humidity:    | 56%                  |
| Test Result:  | Pass                               |              |                      |

| Channel | Channel Frequency (MHz) | Peak Power Output (dBm) | Peak Power Limit (dBm) | 26dBcOccupied Bandwidth (MHz) | Pass/Fail |
|---------|-------------------------|-------------------------|------------------------|-------------------------------|-----------|
| 1       | 5180                    | 13.8                    | 17                     | 29.9                          | Pass      |
| 4       | 5220                    | 14.5                    | 17                     | 23.2                          | Pass      |
| 6       | 5805                    | 16.7                    | 30                     | 25.2                          | Pass      |

**NOTE:** The 26dBc Occupied Bandwidth plot, please refer to the following pages.

### Peak Power Out CH1



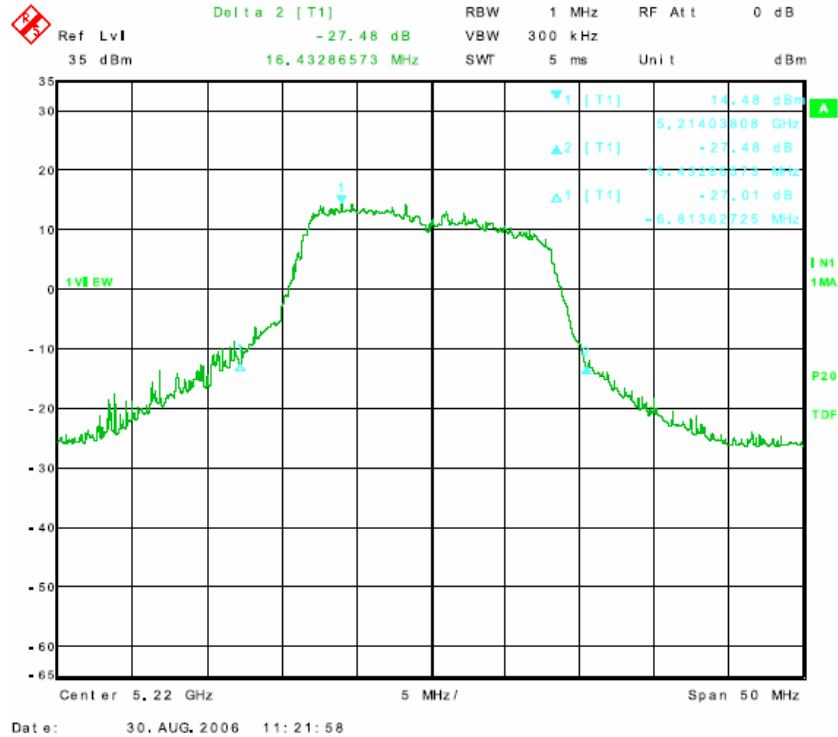
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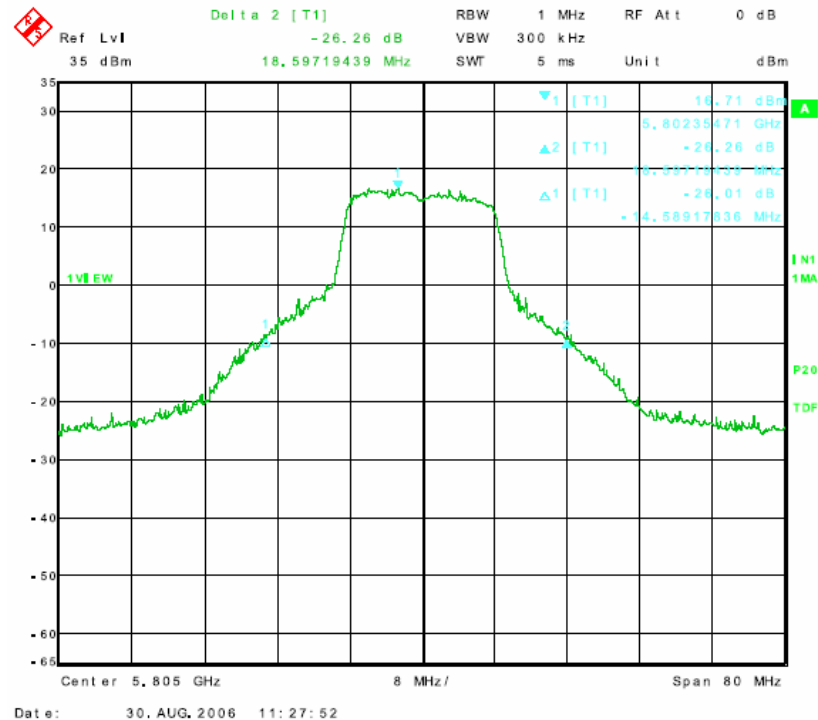
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## CH4



## CH6



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## 8.0 Peak Power Excursion Measurement

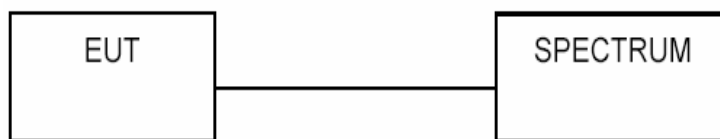
### 8.1 Limits of Peak Power Excursion Measurement

| Frequency Band    | Limit |
|-------------------|-------|
| 5.15 – 5.25 GHz   | 13dB  |
| 5.25 – 5.35 GHz   | 13dB  |
| 5.725 – 5.825 GHz | 13dB  |

### 8.2 Test Procedure

1. The transmitter output was connected to the spectrum analyzer.
2. Set the spectrum bandwidth span to view the entire spectrum.
3. Using peak detector and Max-hold function for Trace 1 (RB=1MHz, VB=3MHz) and 2 (RB=1MHz, VB=300KHz).
4. The largest difference between Trace 1 and Trace 2 in any 1MHz band on any frequency was recorded.

### 8.3 Test setup



### 8.4 EUT Operation Conditions

EUT under transmission condition continuously at specific channel frequencies individually.

### 8.5 Test Result

|               |                                    |              |                             |
|---------------|------------------------------------|--------------|-----------------------------|
| Product:      | Wireless TV With TFT-LCD           | Test Mode:   | Keep Tx Transmitting on CH1 |
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                        |
| Test Voltage: | 120V, 60Hz                         | Humidity:    | 56%                         |
| Test Result:  | Pass                               |              |                             |

| Channel | Channel Frequency (MHz) | Peak Power Excursion (dB) | Peak to Average Excursion Limit (dB) | Pass/Fail |
|---------|-------------------------|---------------------------|--------------------------------------|-----------|
| 1       | 5180                    | 6.0                       | 13                                   | Pass      |
| 4       | 5220                    | 6.5                       | 13                                   | Pass      |
| 6       | 5805                    | 5.7                       | 13                                   | Pass      |

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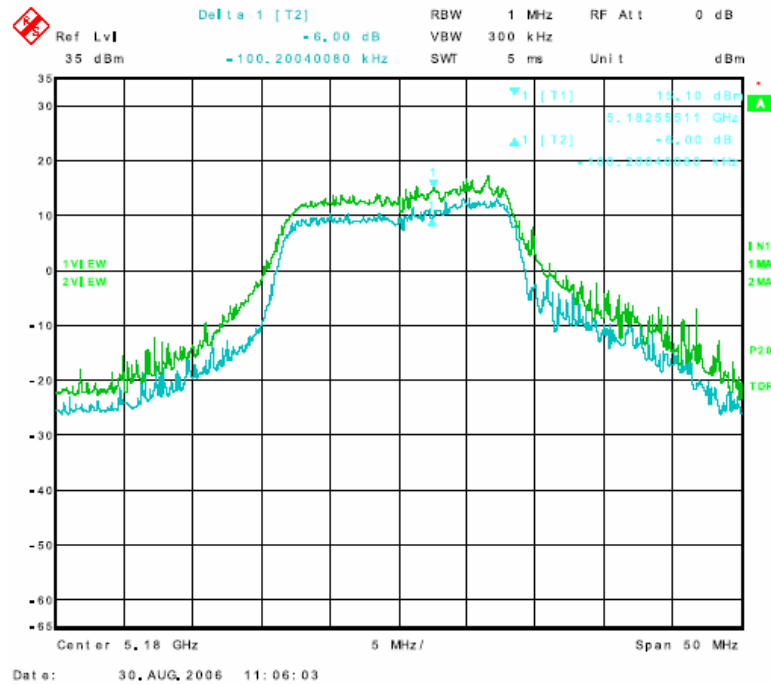
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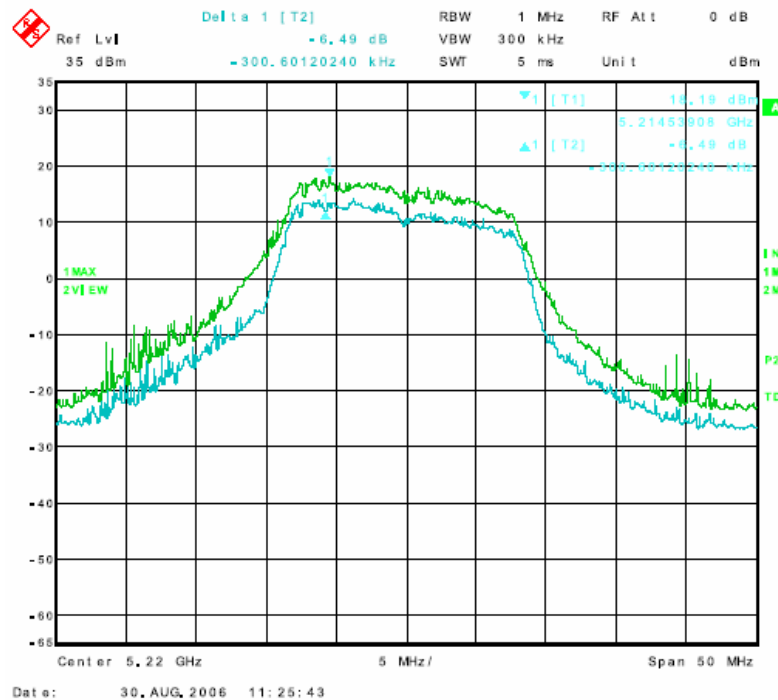


## Test Plot of Peak Power Excursion

### CH1



### CH4



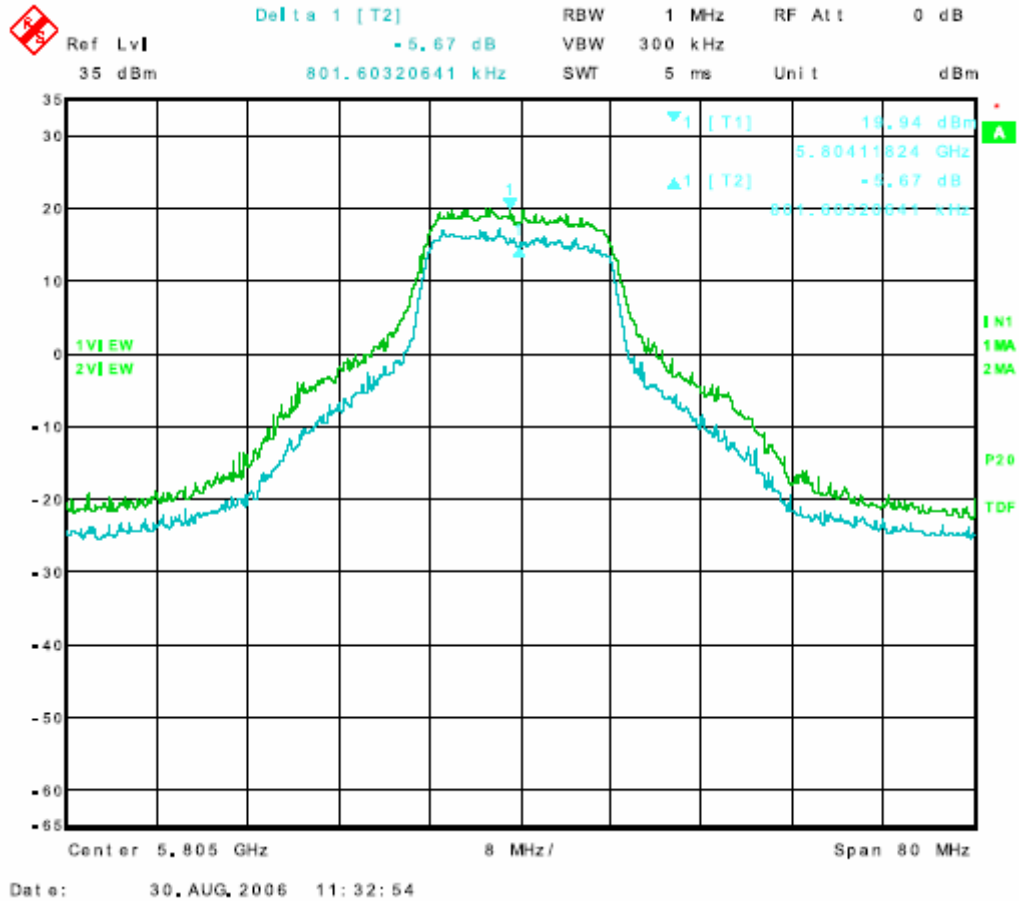
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CH6



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## 9.0 Peak Power Spectral Density Measurement

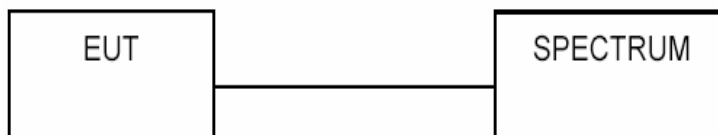
### 9.1 Limits of Peak Power Spectral Density Measurement

| Frequency Band    | Limit | Limit |
|-------------------|-------|-------|
| 5.15 – 5.25 GHz   | 13dB  | 4dBm  |
| 5.25 – 5.35 GHz   | 13dB  | 11dBm |
| 5.725 – 5.825 GHz | 13dB  | 17dBm |

### 9.2 Test Procedures

1. The transmitter output was connected to the spectrum analyzer.
2. Set RBW=1MHz, VBW=3MHz. The PPSD is the highest level found across the emission in any 1MHz band.

### 9.3 Test Setup



### 9.4 EUT OPERATING CONDITIONS

EUT under transmission condition continuously at specific channel frequencies individually.

### 9.5 Test Result

|               |                                    |              |                      |
|---------------|------------------------------------|--------------|----------------------|
| Product:      | Wireless TV With TFT-LCD           | Test Mode:   | Keep Tx Transmitting |
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                 |
| Test Voltage: | 120V, 60Hz                         | Humidity:    | 56%                  |
| Test Result:  | Pass                               |              |                      |

| Channel | Channel Frequency (MHz) | RF power Level in 1MHz BW (dBm) | Maximum Limit (dBm) | Pass/Fail |
|---------|-------------------------|---------------------------------|---------------------|-----------|
| 1       | 5180                    | 1.8                             | 4                   | Pass      |
| 4       | 5220                    | -2.1                            | 4                   | Pass      |
| 6       | 5805                    | 5.7                             | 17                  | Pass      |

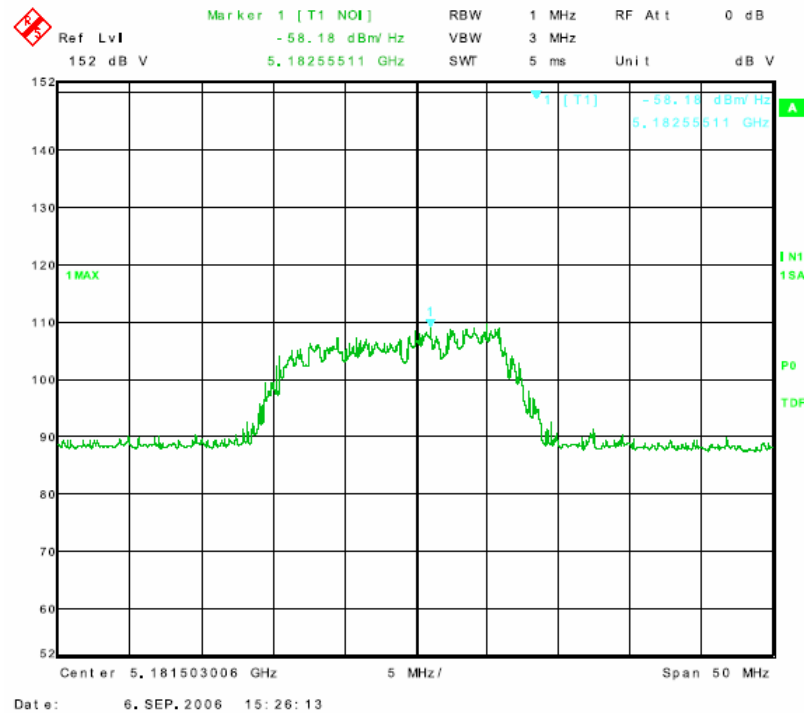
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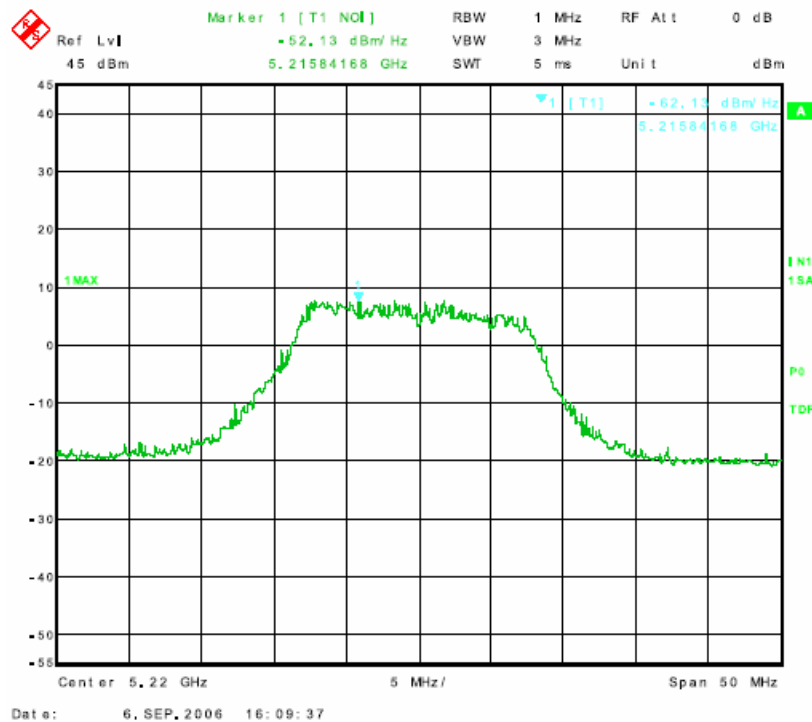
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**Test Plot:**  
**CH1**



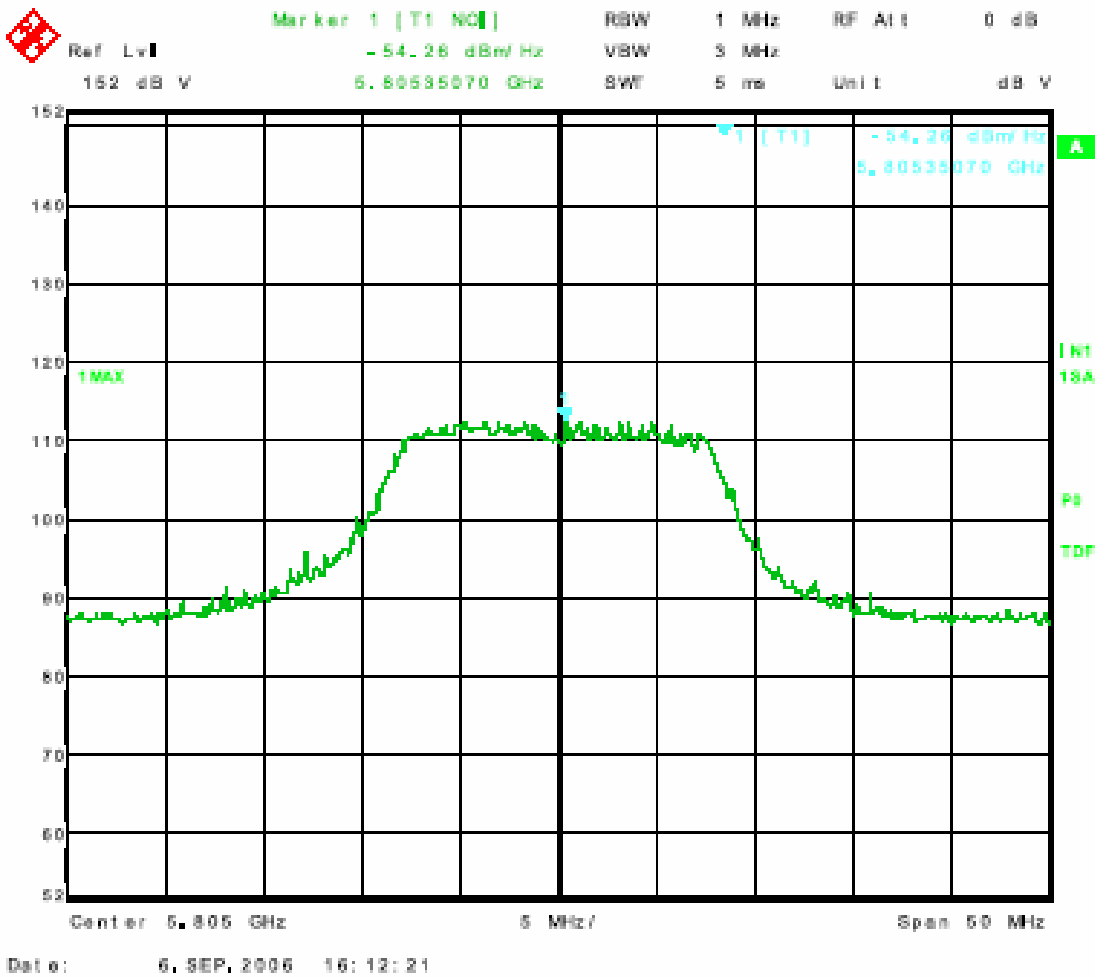
**CH4**



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## **10.0 Frequency Stability**

### **10.1 Limits of Frequency Stability Measurement**

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.02\%$  of the operating frequency over a temperature variation of  $-30$  degrees to  $50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from  $85\%$  to  $115\%$  of the rated supply voltage at a temperature of  $20$  degrees C.

### **10.2 Test Procedure**

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at  $+20$  degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from  $85\%$  to  $115\%$  and the frequency record.

### **10.3 EUT Operation Conditions**

EUT under transmission condition continuously at specific channel frequencies individually.

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#### 10.4 Test Result

**Operating frequency: 5180MHz Limit :  $\pm 0.02\%$**

| T<br>(°C) | Power supply<br>Vac | 2 minute  |         | 5 minute  |         | 10 minute |         |
|-----------|---------------------|-----------|---------|-----------|---------|-----------|---------|
|           |                     | (MHz)     | (%)     | (MHz)     | (%)     | (MHz)     | (%)     |
| 50        | 126.5               | 5179.9868 | 0.00025 | 5179.9876 | 0.00024 | 5179.9887 | 0.00021 |
|           | 110                 | 5179.9875 | 0.00024 | 5179.9893 | 0.00020 | 5179.9912 | 0.00016 |
|           | 93.5                | 5179.9933 | 0.00012 | 5179.9924 | 0.00014 | 5179.9916 | 0.00016 |
| 40        | 126.5               | 5180.0085 | 0.00016 | 5180.0076 | 0.00014 | 5180.0058 | 0.00011 |
|           | 110                 | 5180.0078 | 0.00015 | 5180.0072 | 0.00013 | 5180.0064 | 0.00012 |
|           | 93.5                | 5180.0081 | 0.00015 | 5180.0074 | 0.00014 | 5180.0069 | 0.00013 |
| 30        | 126.5               | 5180.0246 | 0.00047 | 5180.0258 | 0.00049 | 5180.0262 | 0.00050 |
|           | 110                 | 5180.0254 | 0.00049 | 5180.0273 | 0.00052 | 5180.0286 | 0.00055 |
|           | 93.5                | 5180.0240 | 0.00046 | 5180.0246 | 0.00047 | 5180.0272 | 0.00052 |
| 20        | 126.5               | 5180.0128 | 0.00024 | 5180.0116 | 0.00022 | 5180.0104 | 0.00020 |
|           | 110                 | 5180.0124 | 0.00023 | 5180.0122 | 0.00023 | 5180.0110 | 0.00021 |
|           | 93.5                | 5180.0122 | 0.00023 | 5180.0106 | 0.00020 | 5180.0114 | 0.00022 |
| 10        | 126.5               | 5179.9952 | 0.00009 | 5179.9946 | 0.00010 | 5179.9942 | 0.00011 |
|           | 110                 | 5179.9948 | 0.00010 | 5179.9943 | 0.00011 | 5179.9916 | 0.00016 |
|           | 93.5                | 5179.9938 | 0.00011 | 5179.9926 | 0.00014 | 5179.9886 | 0.00022 |
| 0         | 126.5               | 5180.0241 | 0.00046 | 5180.0224 | 0.00043 | 5180.0216 | 0.00041 |
|           | 110                 | 5180.0233 | 0.00044 | 5180.0215 | 0.00041 | 5180.0204 | 0.00039 |
|           | 93.5                | 5180.0228 | 0.00044 | 5180.0219 | 0.00042 | 5180.0198 | 0.00038 |
| -10       | 126.5               | 5180.0115 | 0.00022 | 5180.0109 | 0.00021 | 5180.0101 | 0.00019 |
|           | 110                 | 5180.0117 | 0.00022 | 5180.0113 | 0.00021 | 5180.0104 | 0.00020 |
|           | 93.5                | 5180.0123 | 0.00023 | 5180.0134 | 0.00025 | 5180.0143 | 0.00027 |
| -20       | 126.5               | 5180.0328 | 0.00063 | 5180.0321 | 0.00061 | 5180.0313 | 0.00060 |
|           | 110                 | 5180.0318 | 0.00061 | 5180.0311 | 0.00060 | 5180.0294 | 0.00056 |
|           | 93.5                | 5180.0310 | 0.00059 | 5180.0289 | 0.00055 | 5180.0268 | 0.00051 |
| -30       | 126.5               | 5180.0312 | 0.00060 | 5180.0302 | 0.00058 | 5180.0296 | 0.00057 |
|           | 110                 | 5180.0306 | 0.00060 | 5180.0298 | 0.00057 | 5180.0284 | 0.00054 |
|           | 93.5                | 5180.0281 | 0.00054 | 5180.0268 | 0.00051 | 5180.0266 | 0.00051 |

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## 11. Band Edge

### 11.1 TEST PROCEDURE

Set both RBW and VBW of spectrum analyzer to 1MHz with suitable frequency span including 100MHz bandwidth from Band edge. The Band edge was measured and recorded

### 11.2 EUT Operating Condition

EUT under transmission condition continuously at specific channel frequencies individually.

### 11.3 Test Results

For signals in the restricted bands above and below the 5.15 to 5.35GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW=VBW=1MHz; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

802.11a OFDM modulation

#### CH1

##### Note (Peak)

The band edge emission plot on the following first page shows 54.53dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 91.1dBuV/m (Peak), so the maximum field strength in restrict band is  $91.1 - 54.53 = 36.57\text{dBuV/m}$  which is under 74dBuV/m limit.

The band edge emission plot on the following first page shows 57.54dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 91.1dBuV/m (Peak), so the maximum field strength in restrict band is  $91.1 - 57.54 = 33.56\text{dBuV/m}$  which is under 74dBuV/m limit.

##### Note (Average):

The band edge emission plot on the following second page shows 45.65dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 73.5dBuV/m (Average), so the maximum field strength in restrict band is  $73.5 - 45.65 = 27.85\text{dBuV/m}$  which is under 54dBuV/m limit.

The band edge emission plot on the following second page shows 49.4dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 73.5dBuV/m (Average), so the maximum field strength in restrict band is  $73.5 - 49.4 = 24.1\text{dBuV/m}$  which is under 54dBuV/m limit.

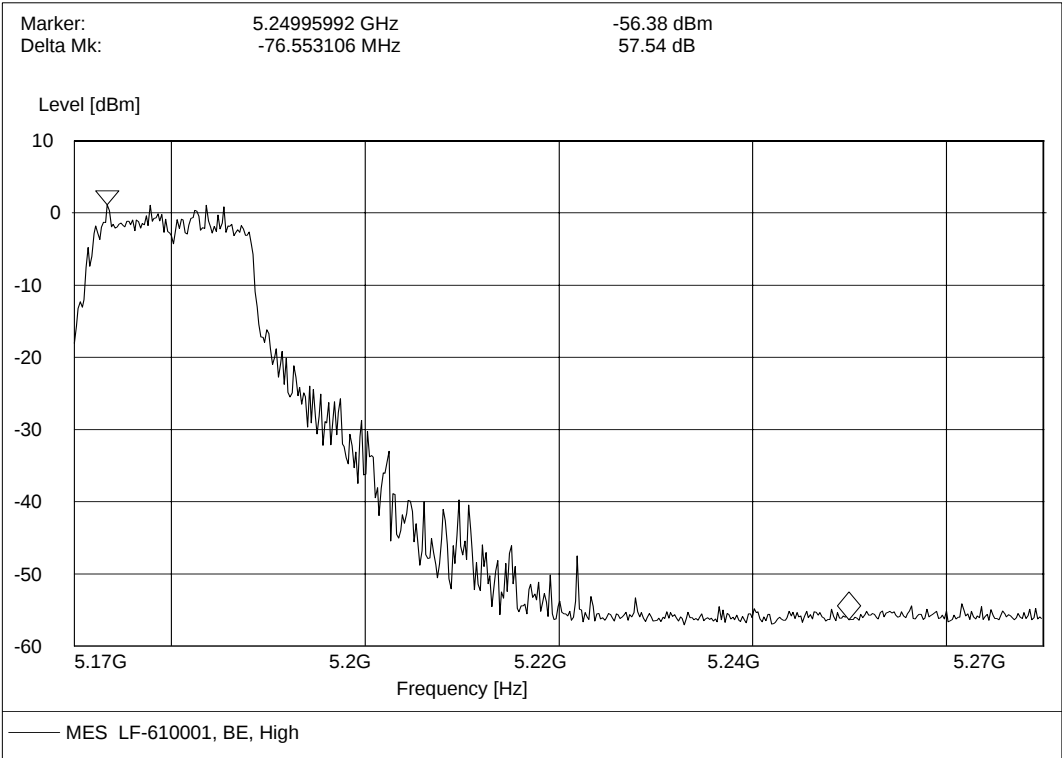
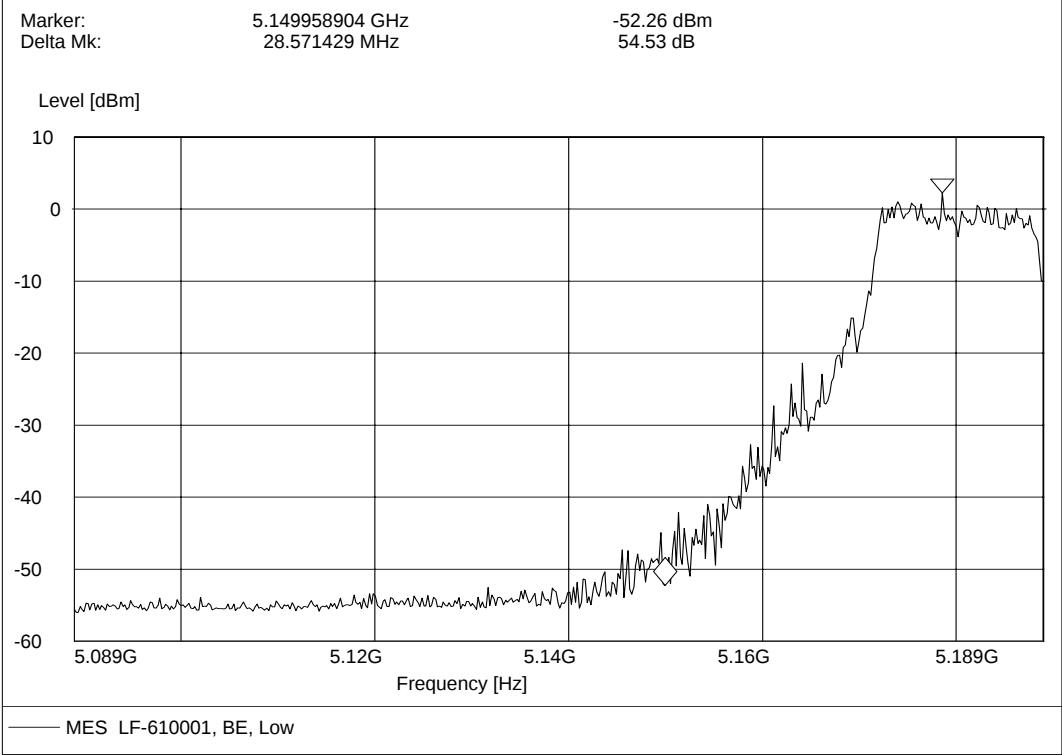
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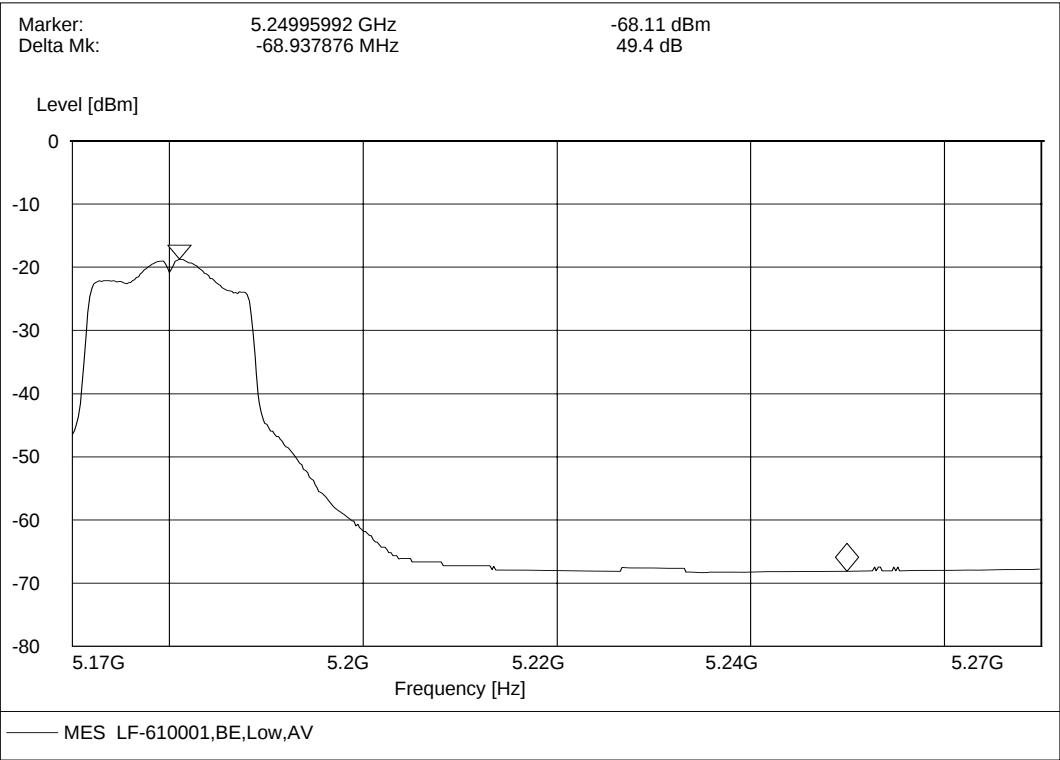
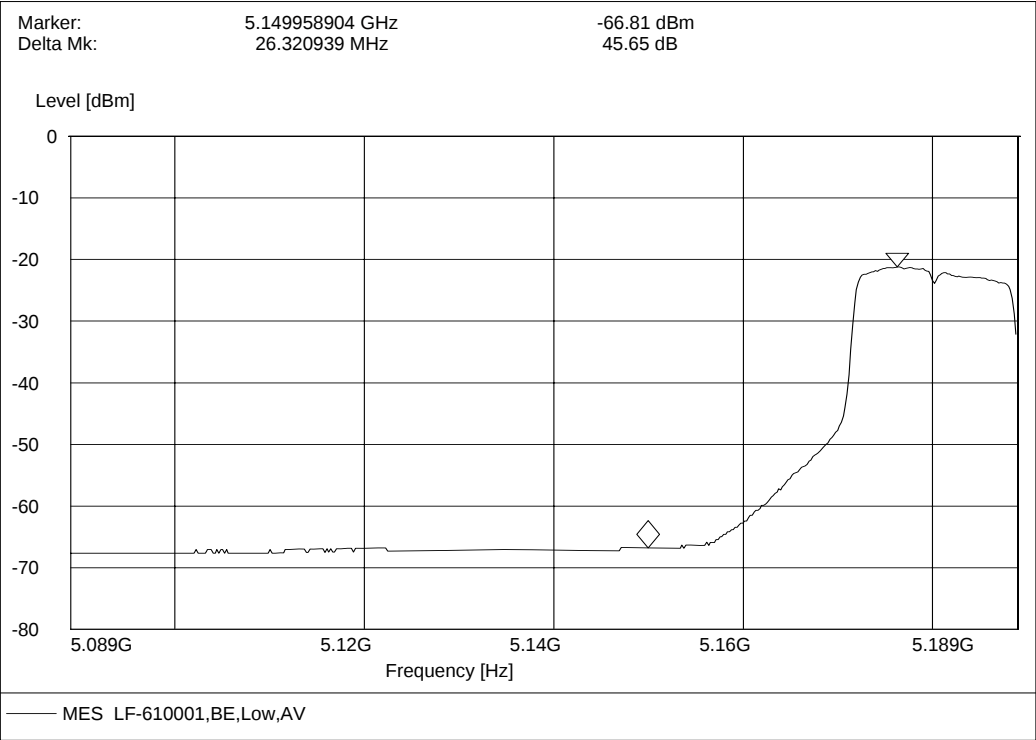
CH1 Peak



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CH1 Average



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**CH6****Note (Peak)**

The band edge emission plot on the following first page shows 57.31dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 6 is 97.8dBuV/m (Peak), so the maximum field strength in restrict band is  $97.8 - 57.31 = 40.49\text{dBuV/m}$  which is under 74dBuV/m limit.

The band edge emission plot on the following first page shows 29.18dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 6 is 97.8dBuV/m (Peak), so the maximum field strength in restrict band is  $97.8 - 29.18 = 68.62\text{dBuV/m}$  which is under 74dBuV/m limit.

**Note (Average):**

The band edge emission plot on the following second page shows 33.79dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 6 is 80.5dBuV/m (Average), so the maximum field strength in restrict band is  $80.5 - 33.79 = 46.71\text{dBuV/m}$  which is under 54dBuV/m limit.

The band edge emission plot on the following second page shows 48.26dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 6 is 80.5dBuV/m (Average), so the maximum field strength in restrict band is  $80.5 - 48.26 = 32.24\text{dBuV/m}$  which is under 54dBuV/m limit.

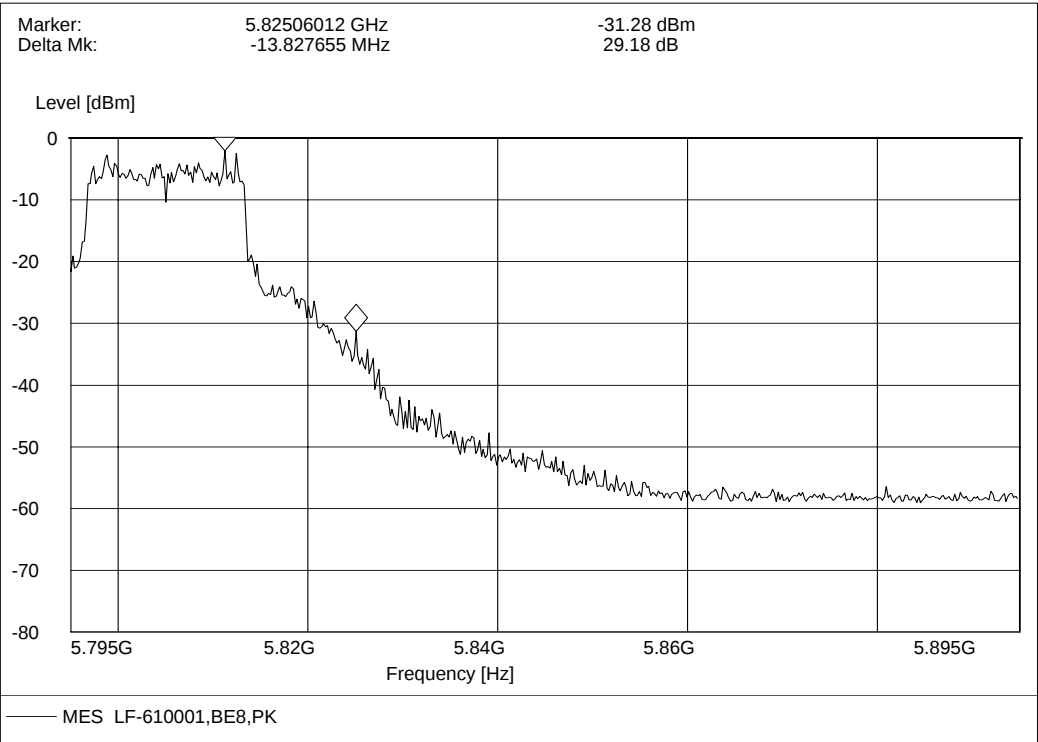
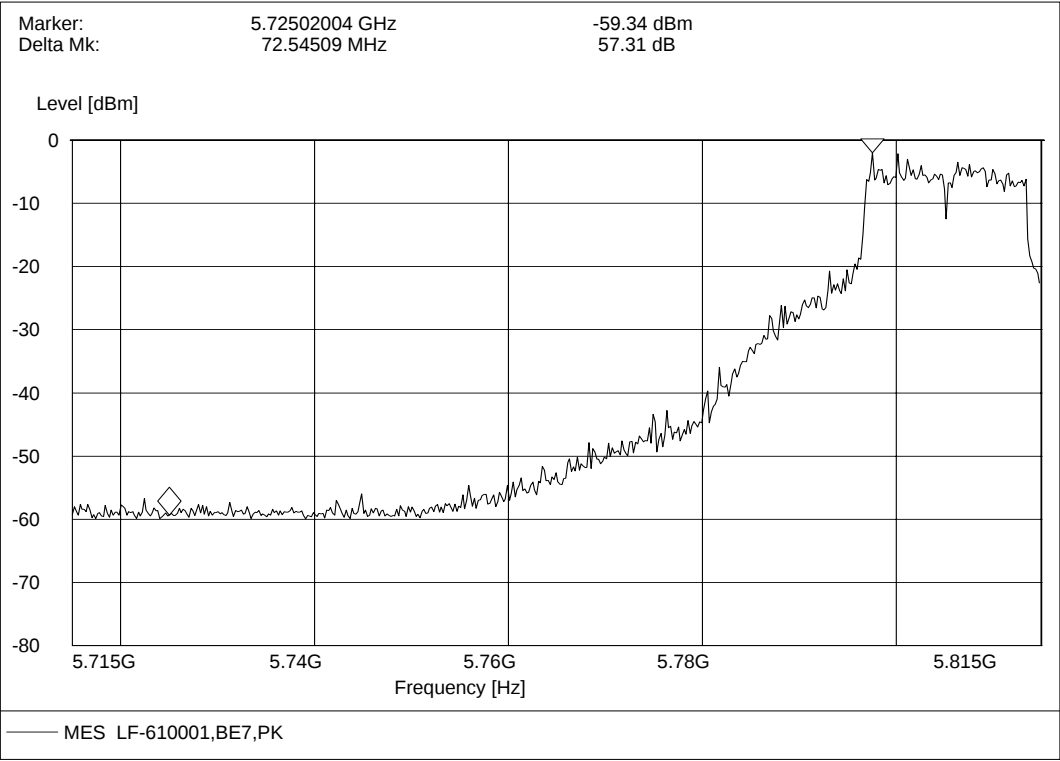
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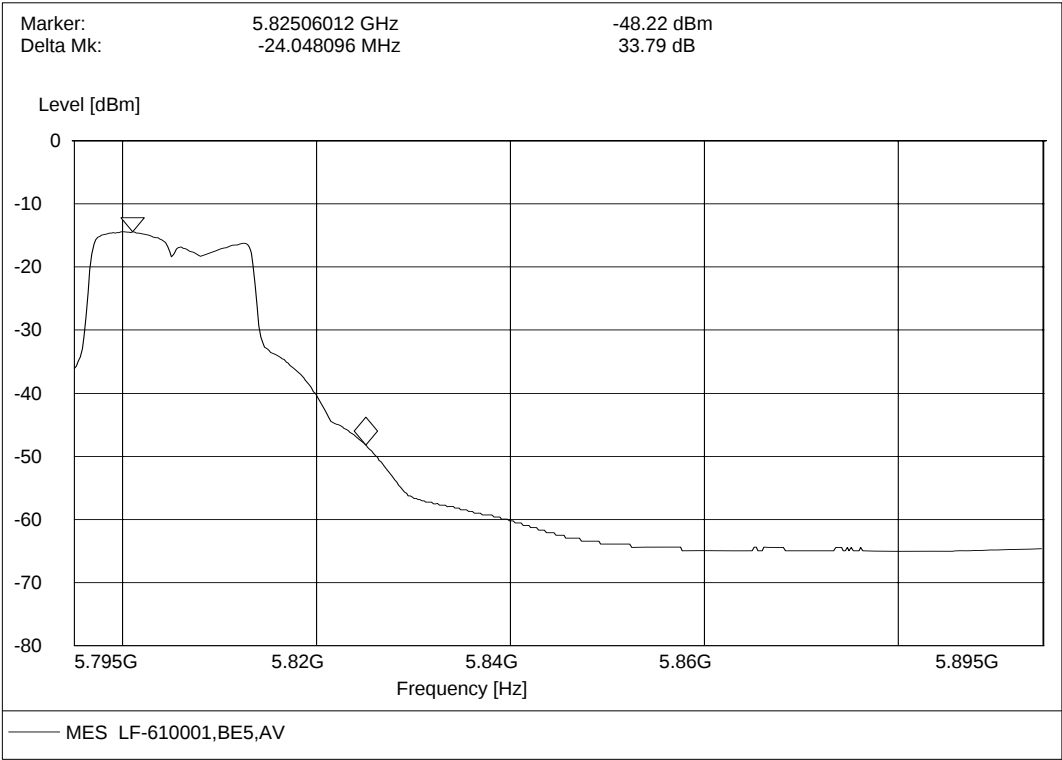
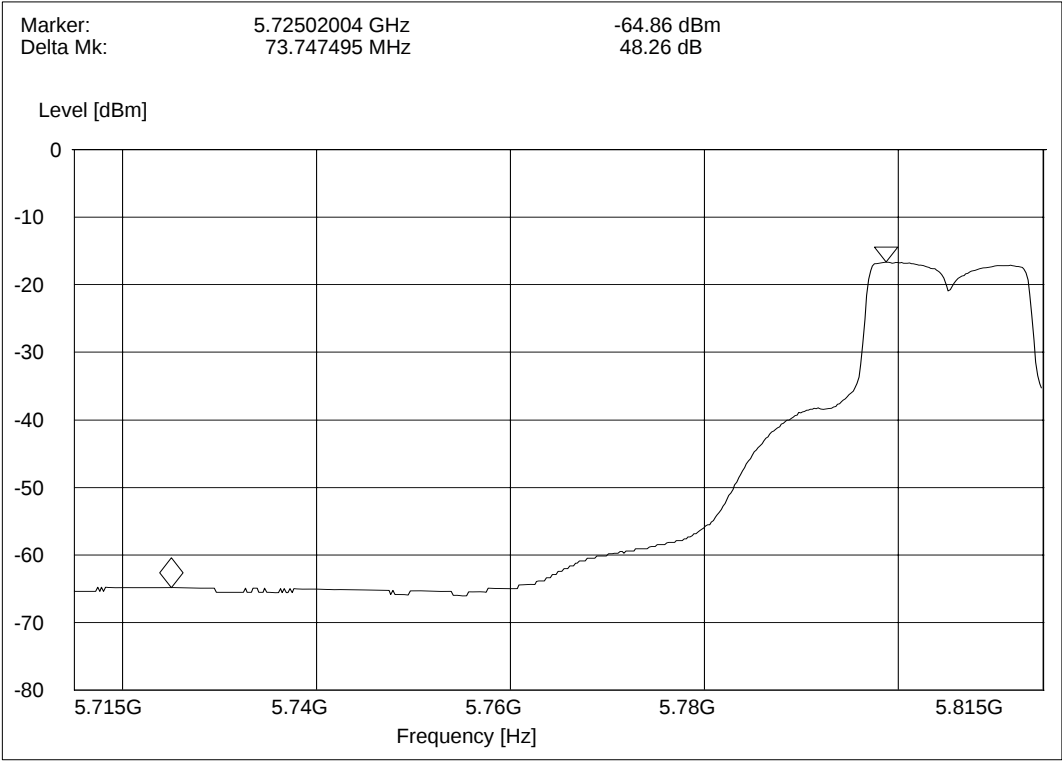
CH6 Peak



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## **12.0 Antenna Requirement**

### **12.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.407(a), if transmitting antennas of Directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **12.2 Antenna Connected construction**

The antenna type used in this product is Dipole antenna produced by **Exceltek Electronics(kunshan)Co.,Ltd** . The maximum Gain of this antenna is 5.56dBi.

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### 13.0 FCC ID Label

**FCC ID: SMFLF-61001**

**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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#### 14.0 Photo of testing

##### 14.1 Conducted test View--



##### 14.2 Radiated emission test view



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#### 14.3 Photo for the EUT

Outside View



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Outside View



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Outside View



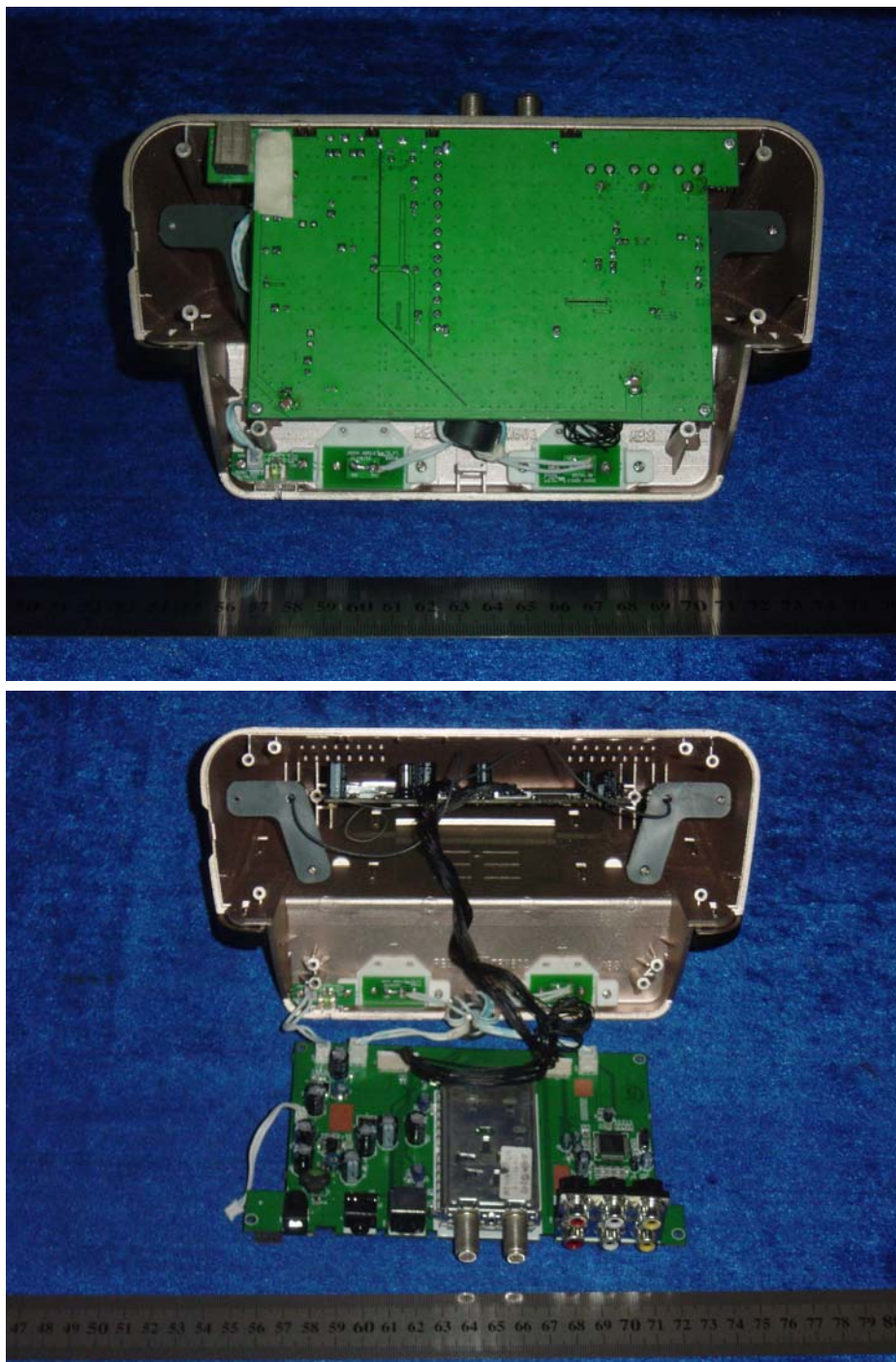
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Interior View



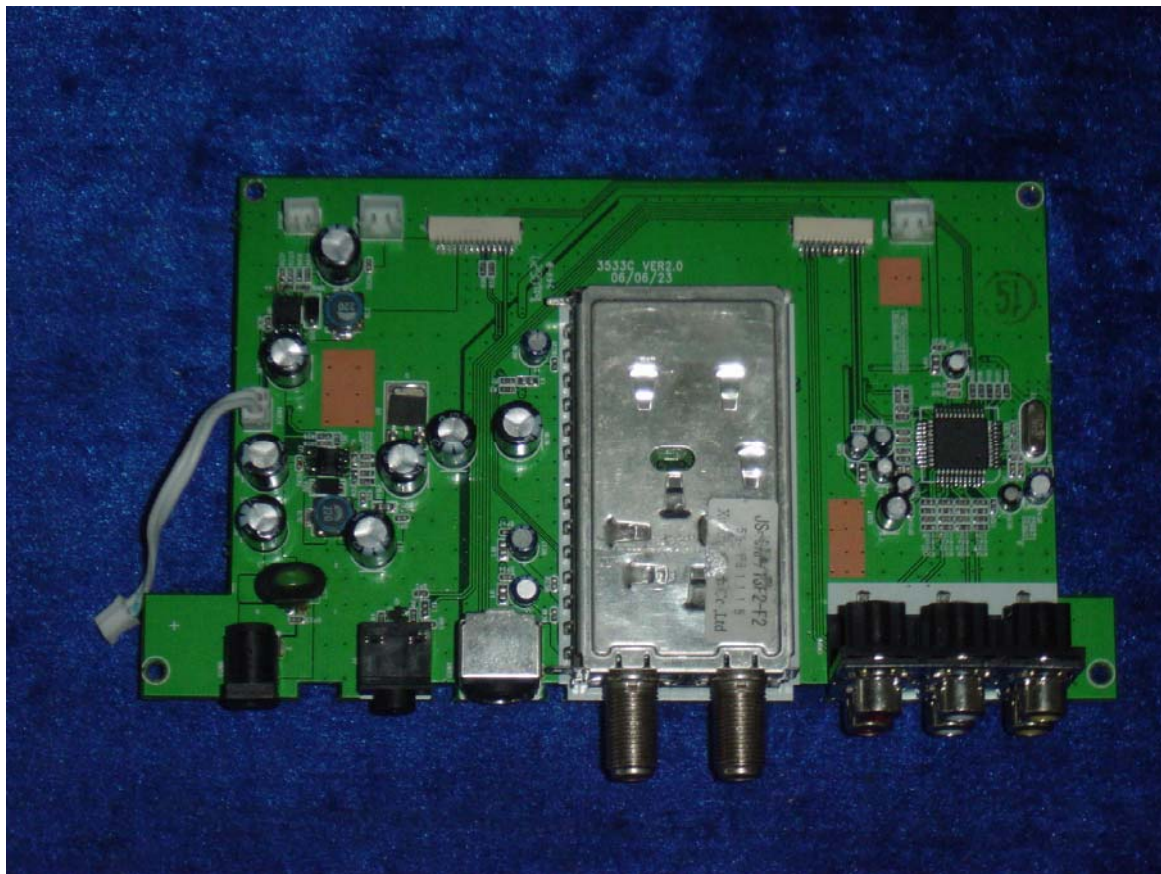
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Interior View



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