



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

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 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
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: 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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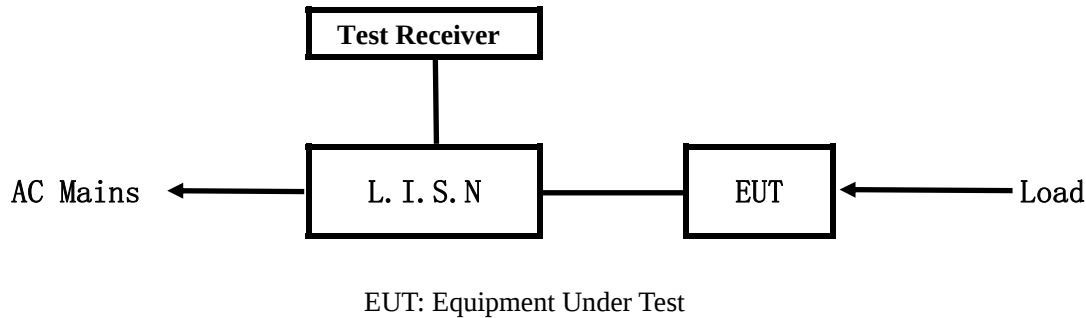
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5. Power Line Conducted Emission Test

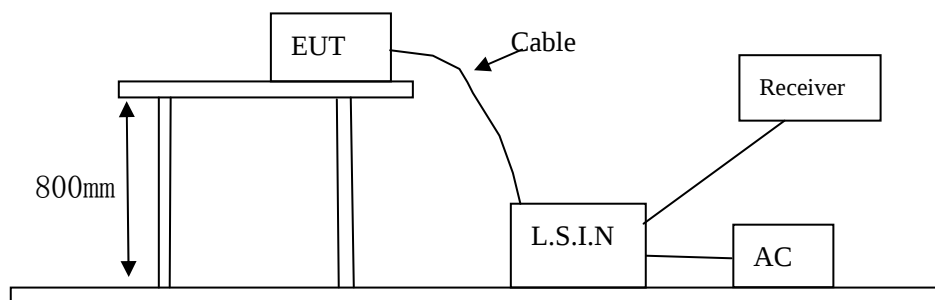
5.1 Schematics of the test



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 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 μ V)		Class B Limits (dB μ 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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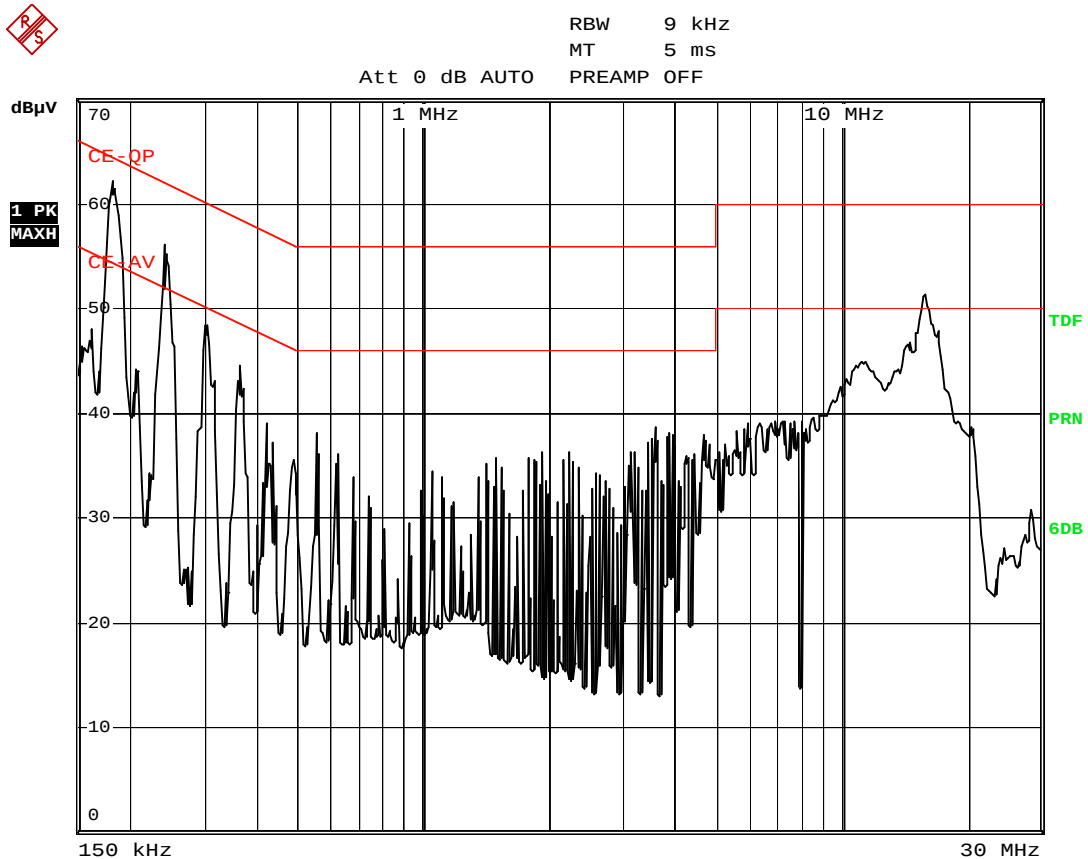


A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

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 (MHz)	Reading(dB μ V)				Limit (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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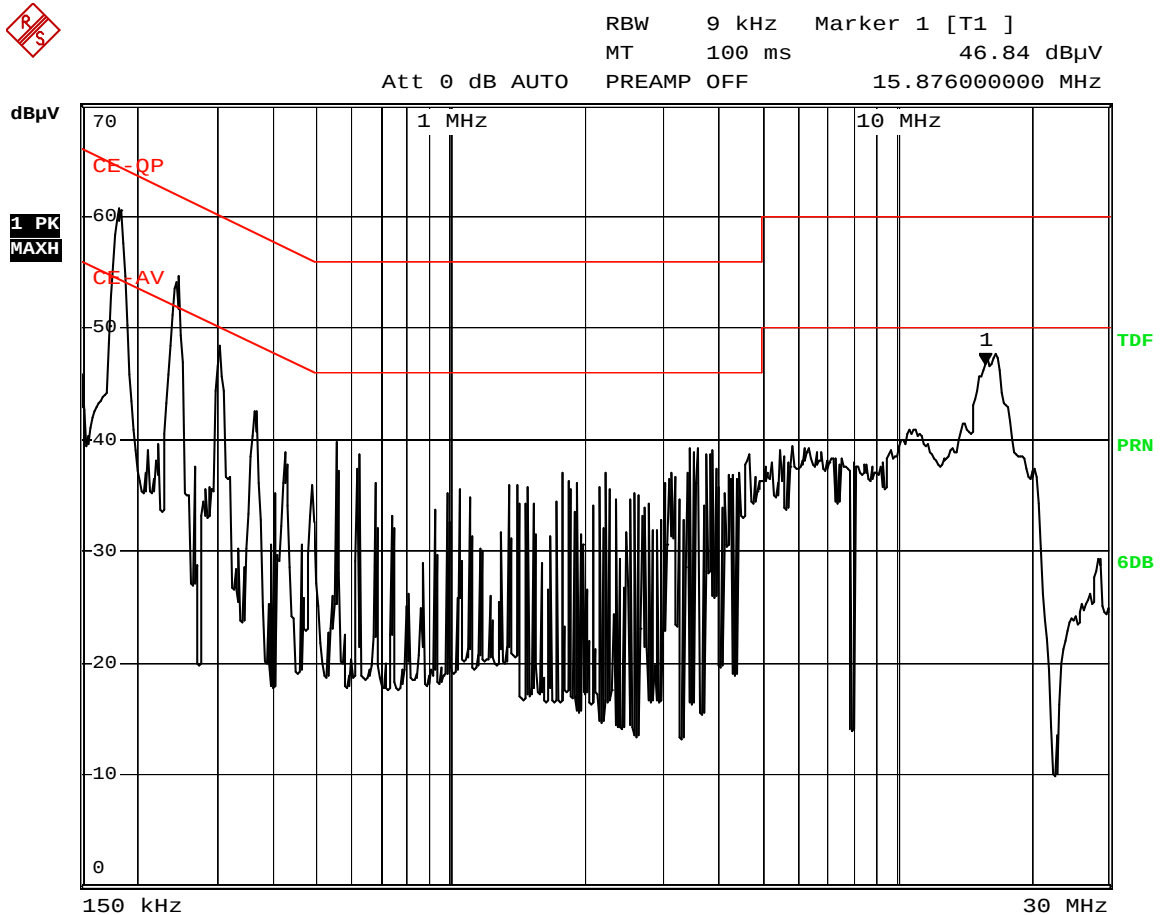


B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

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 (MHz)	Reading(dB μ V)				Limit (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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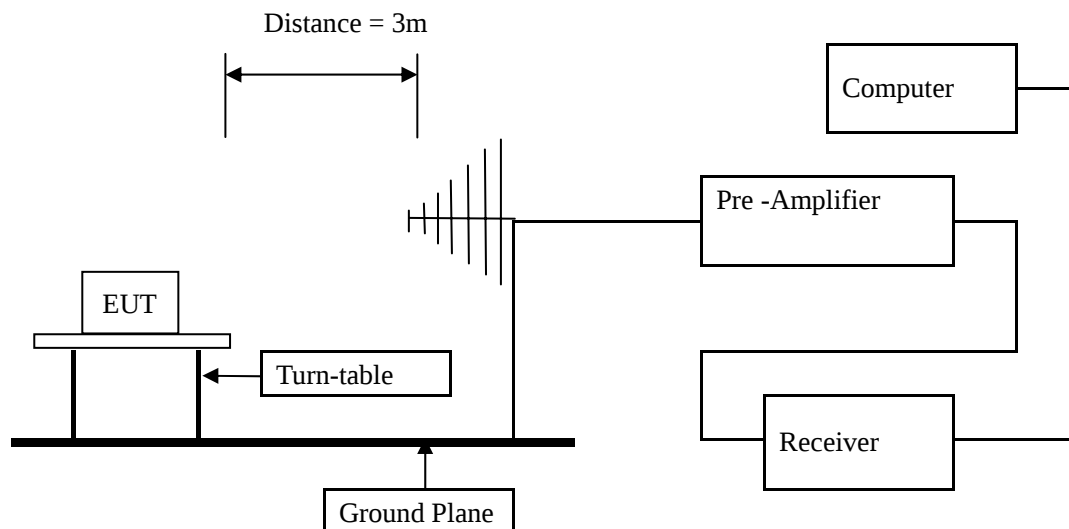


6 Radiated Emission Test

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 μ 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 (μ 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 μ 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		

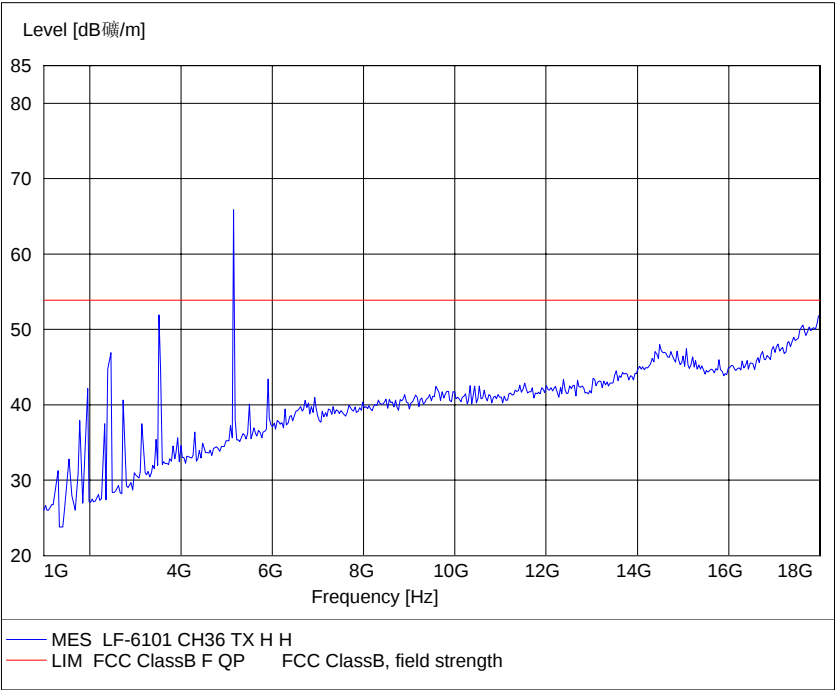
Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
5180	91.1/73.5	Horizontal	--	--
5180	87.2/69.5	Vertical	--	--
3538.878	55.1/52.4	Vertical	74/54	-18.9/-1.6
3538.878	55.3/52.9	Horizontal	74/54	-18.7/-1.1

- 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

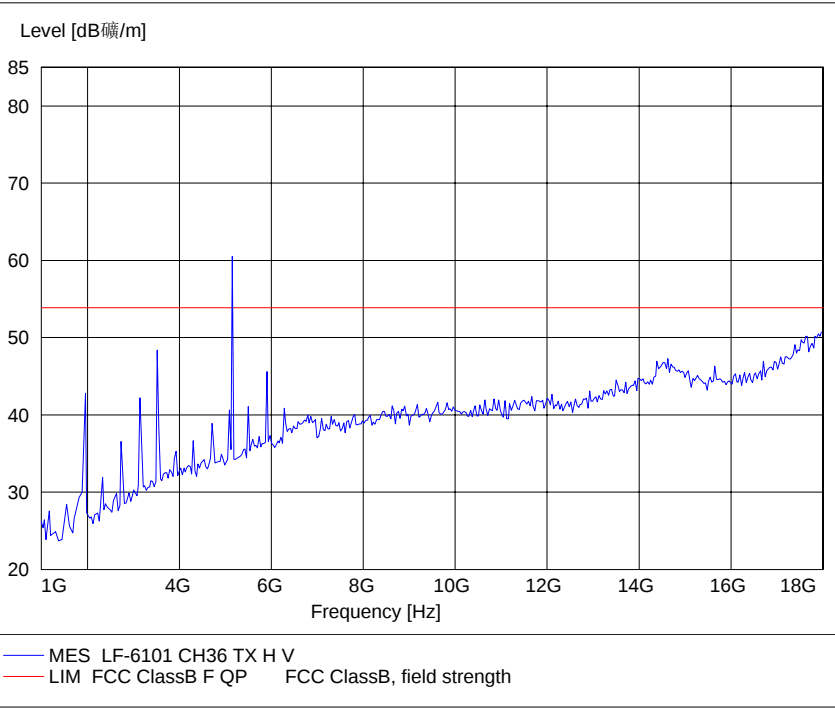


Test Plot:

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 (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (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.

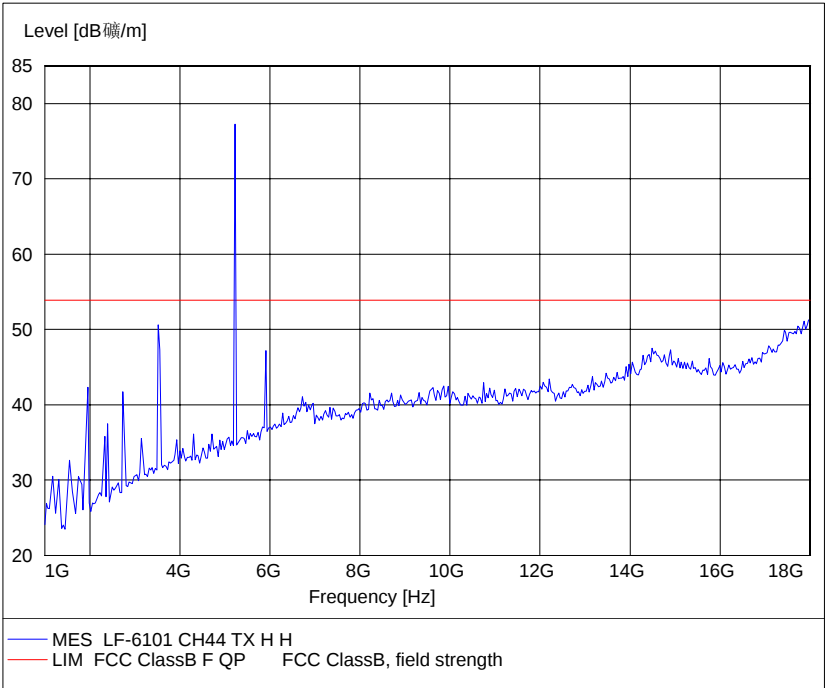
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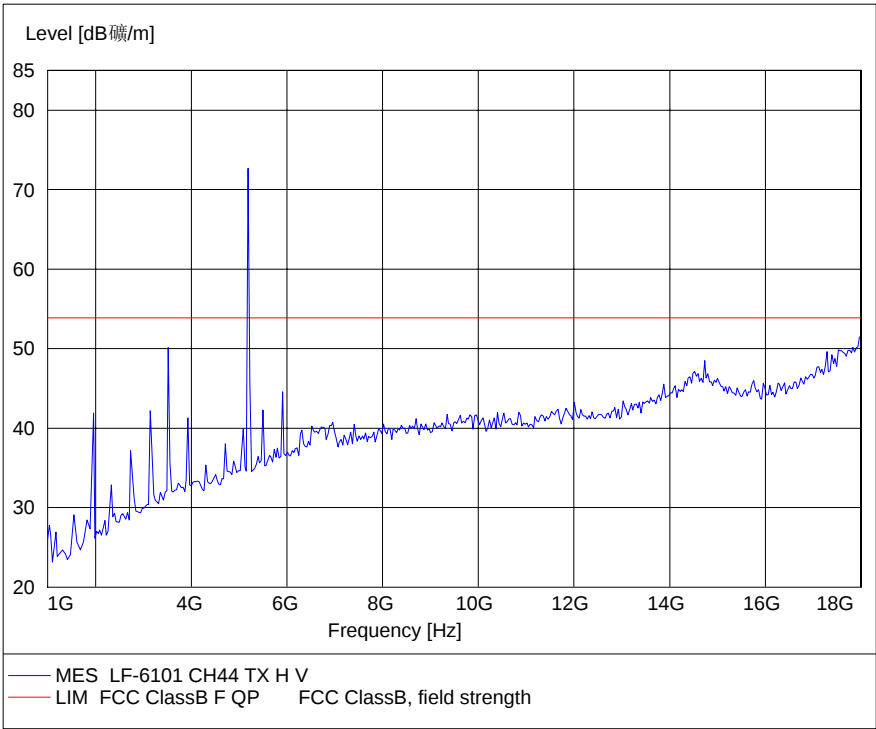


Test Plot:

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 (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (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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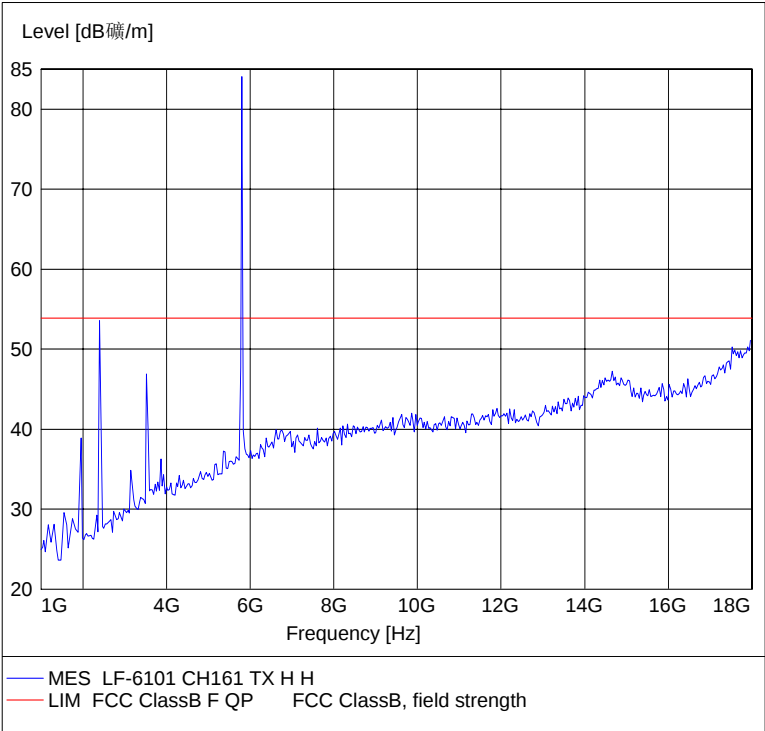
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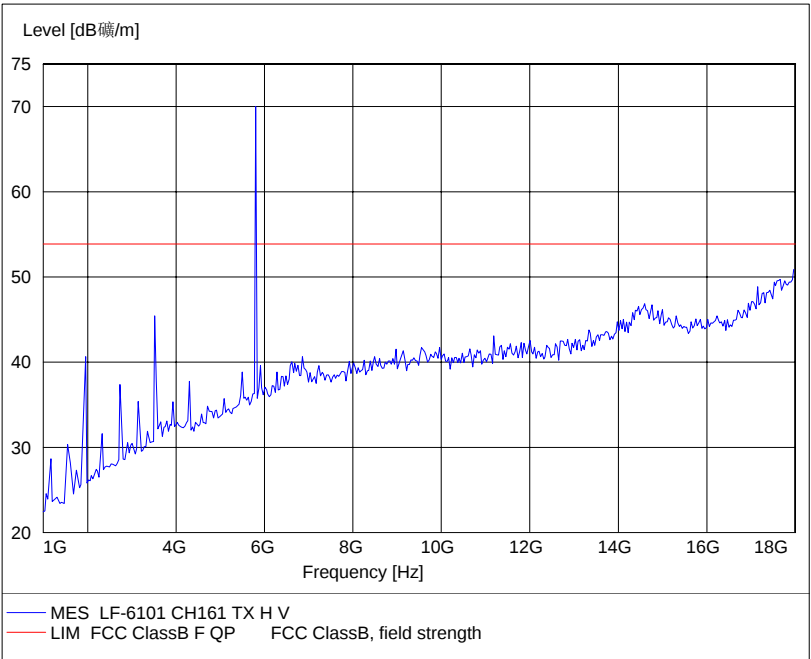


Test Plot:

Horizontal



Vertical:



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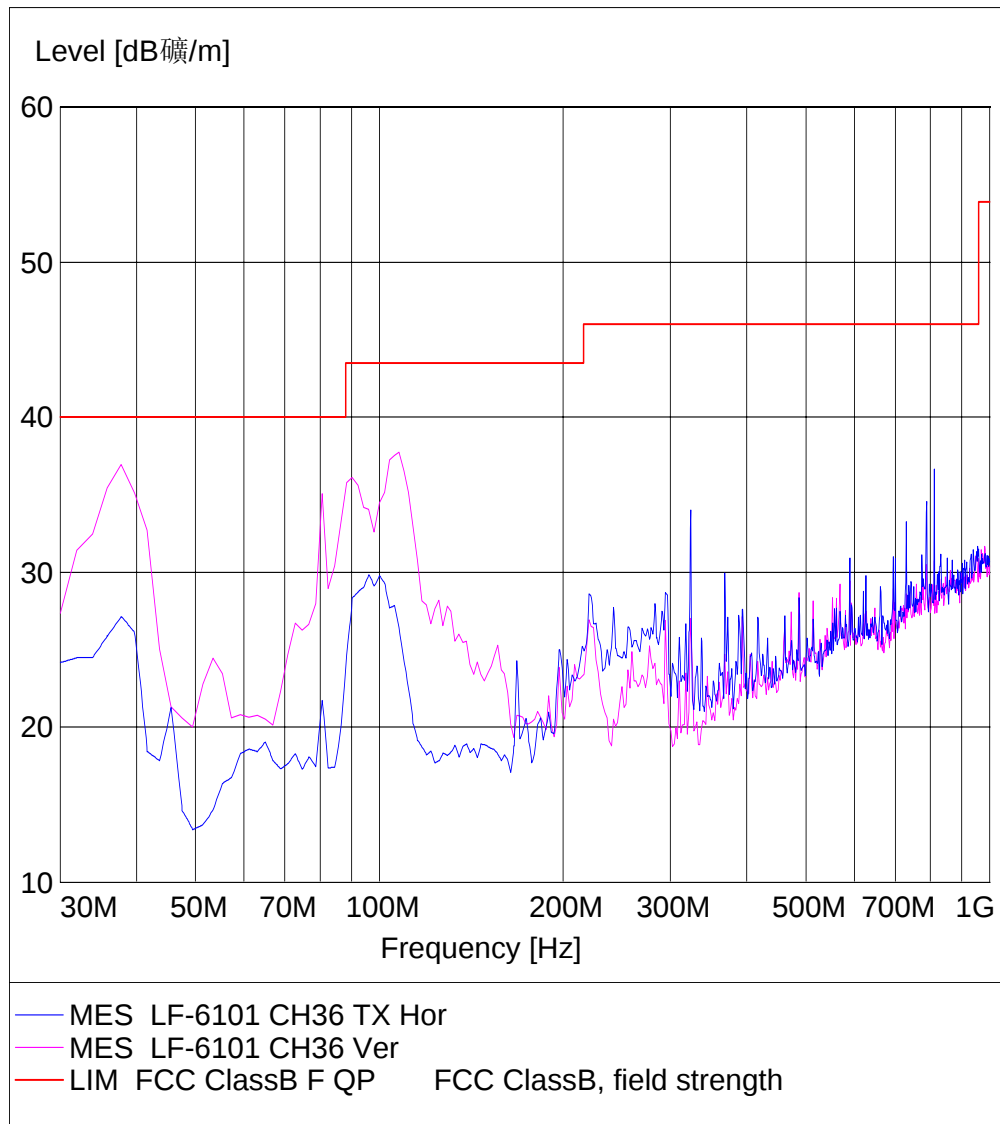


B. General Radiated Emission Data Below 1G
Radiated Emission In Horizontal & Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting on CH1

Results: Pass

Please refer to following diagram for individual



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

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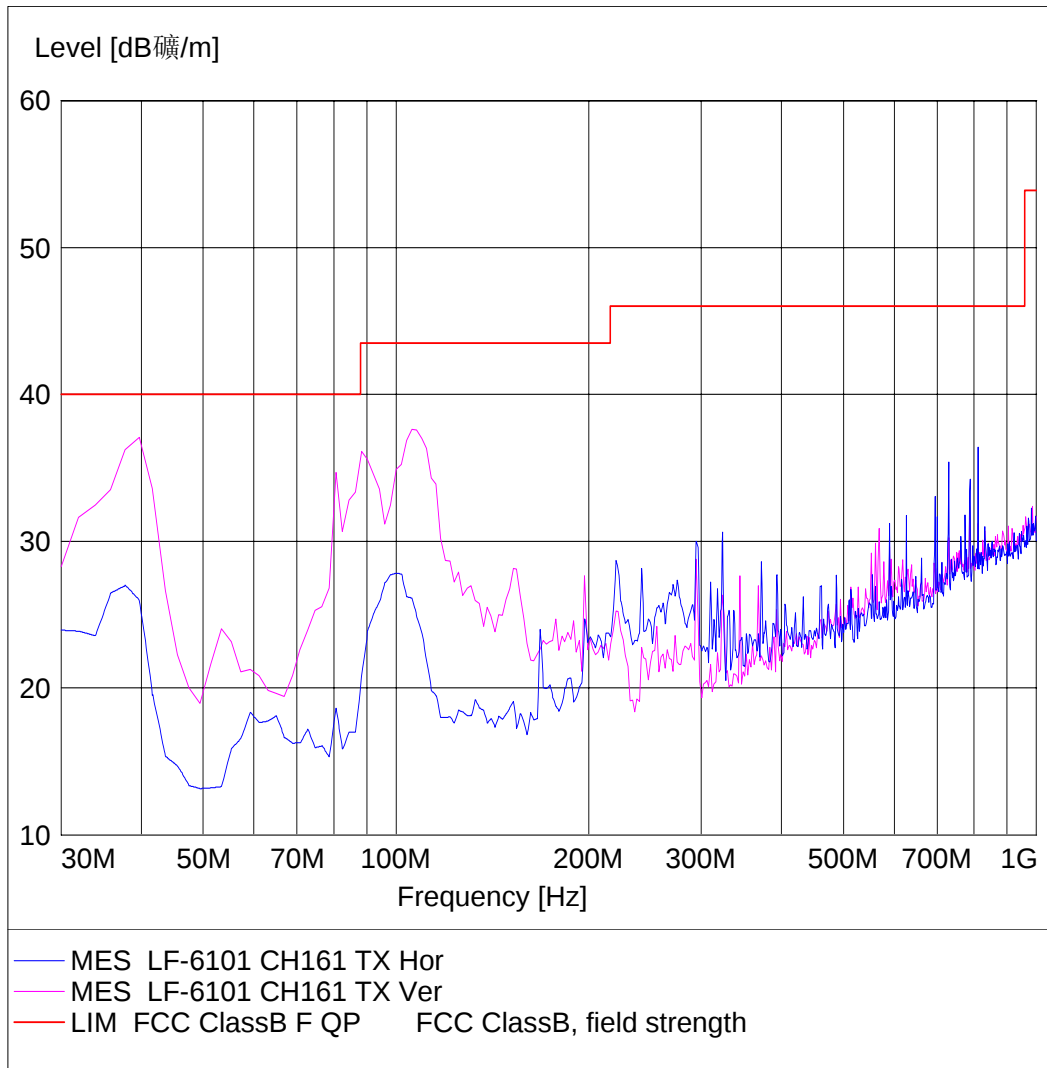


Radiated Emission In Horizontal & Vertical (30MHz----1000MHz)

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.

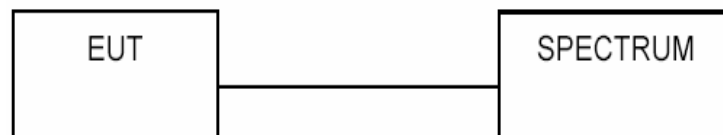
7.2 Test Procedure

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.



TEST REPORT

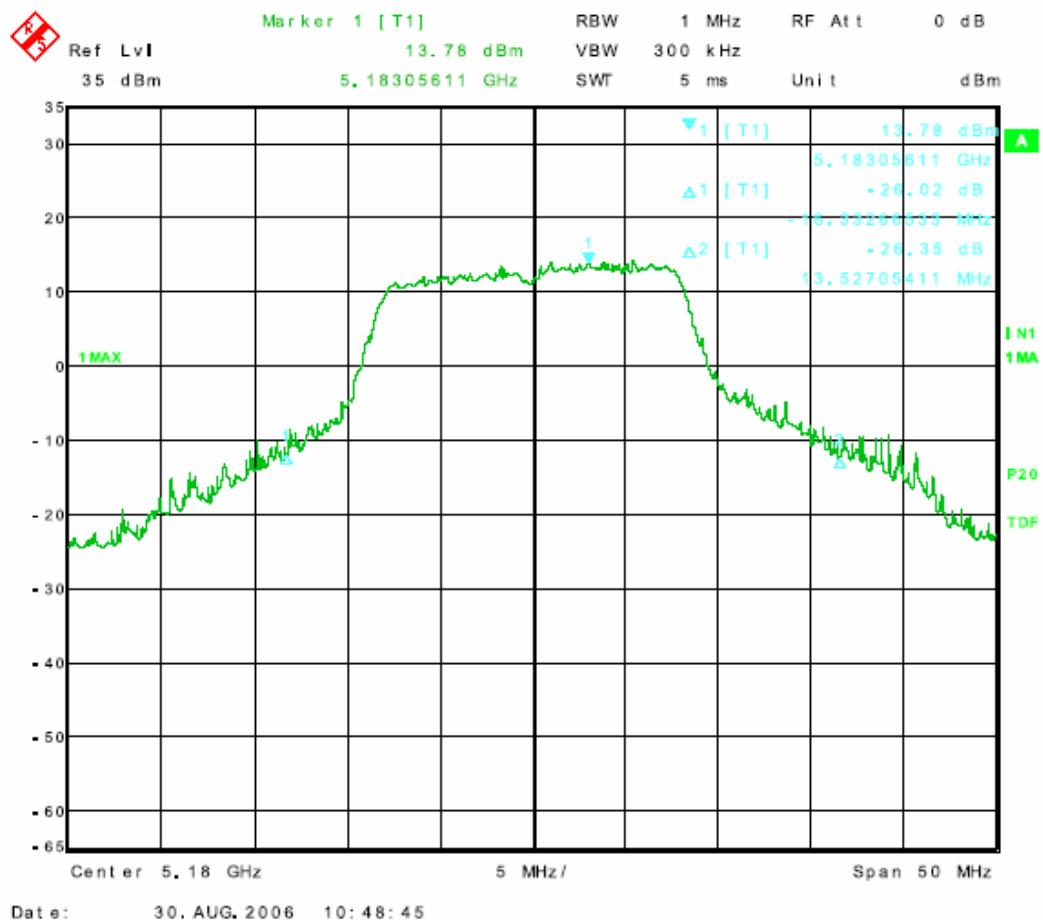
7.5 Test Result

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



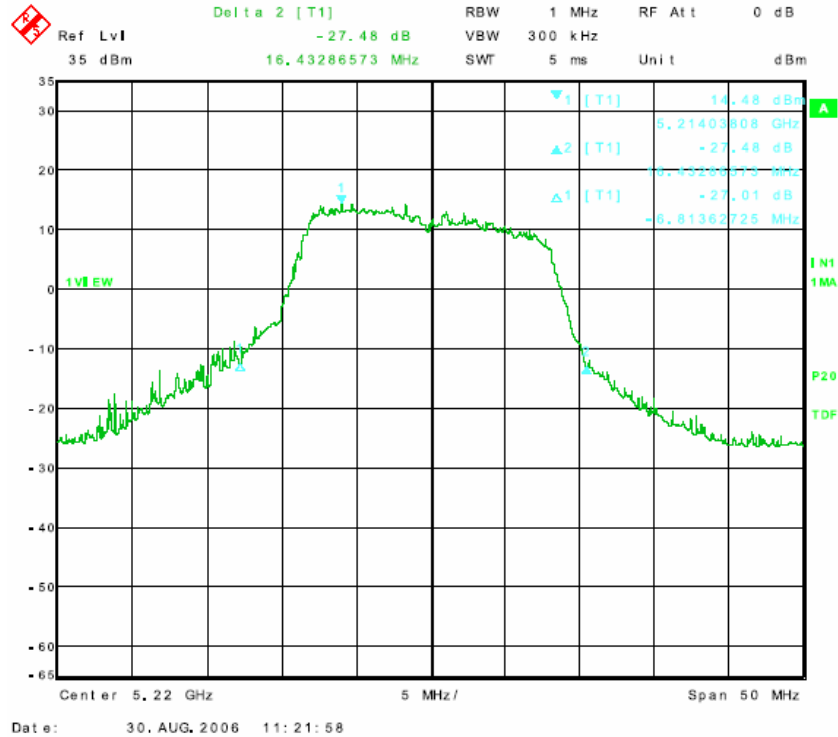
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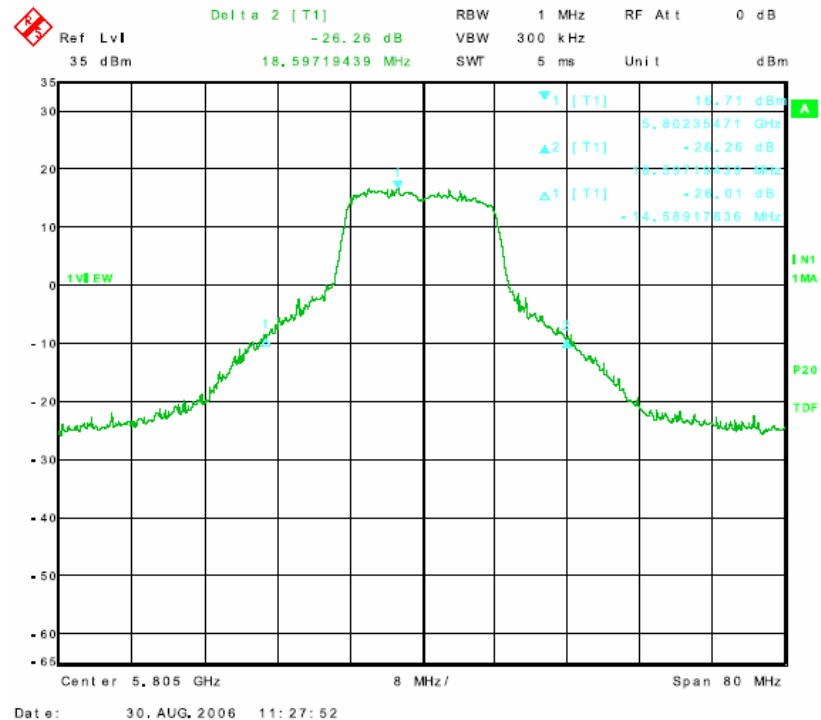
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CH4



CH6



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8.0 Peak Power Excursion Measurement

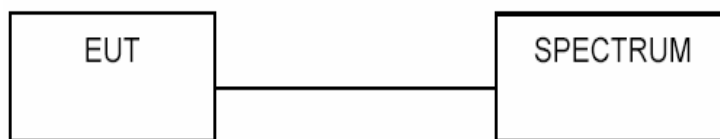
8.1 Limits of Peak Power Excursion Measurement

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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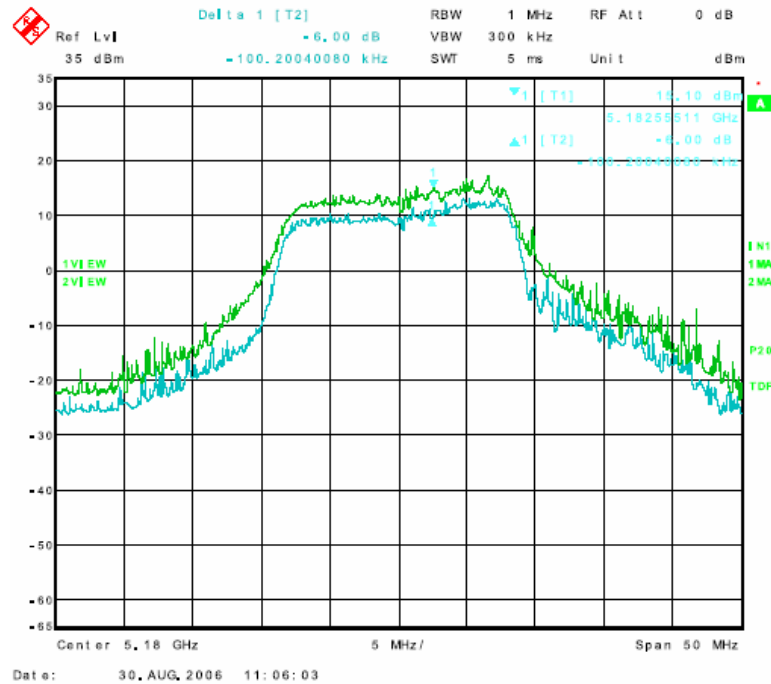
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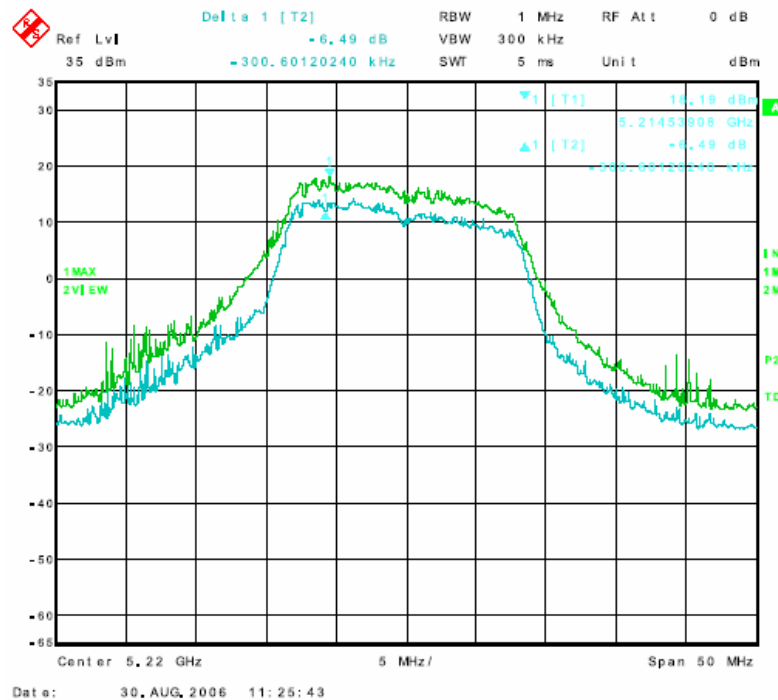


Test Plot of Peak Power Excursion

CH1



CH4



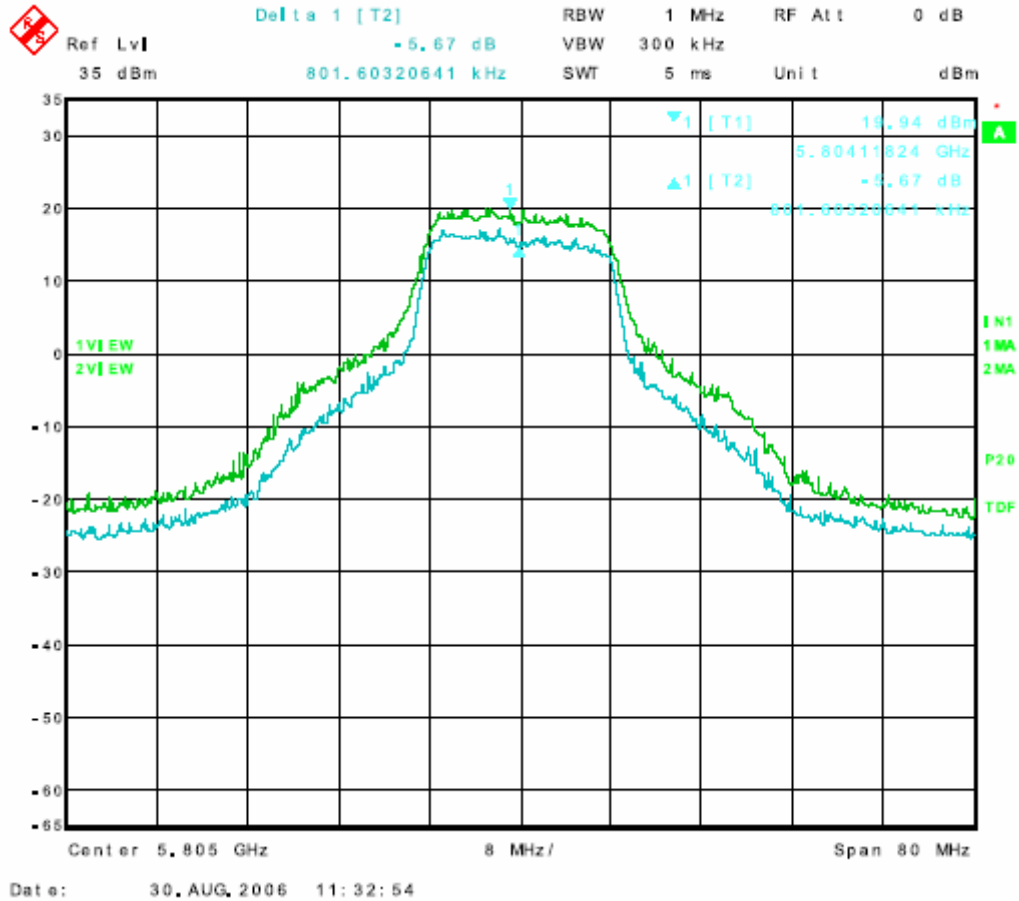
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9.0 Peak Power Spectral Density Measurement

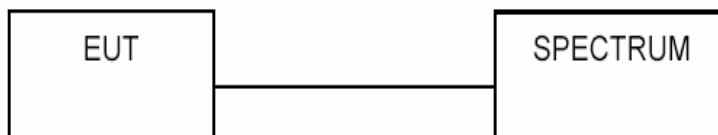
9.1 Limits of Peak Power Spectral Density Measurement

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℃
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

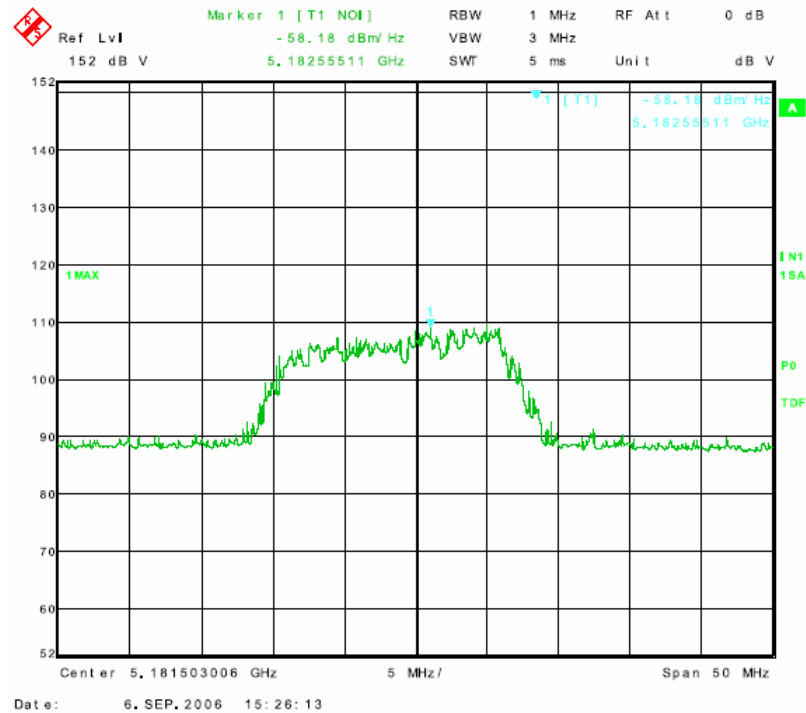
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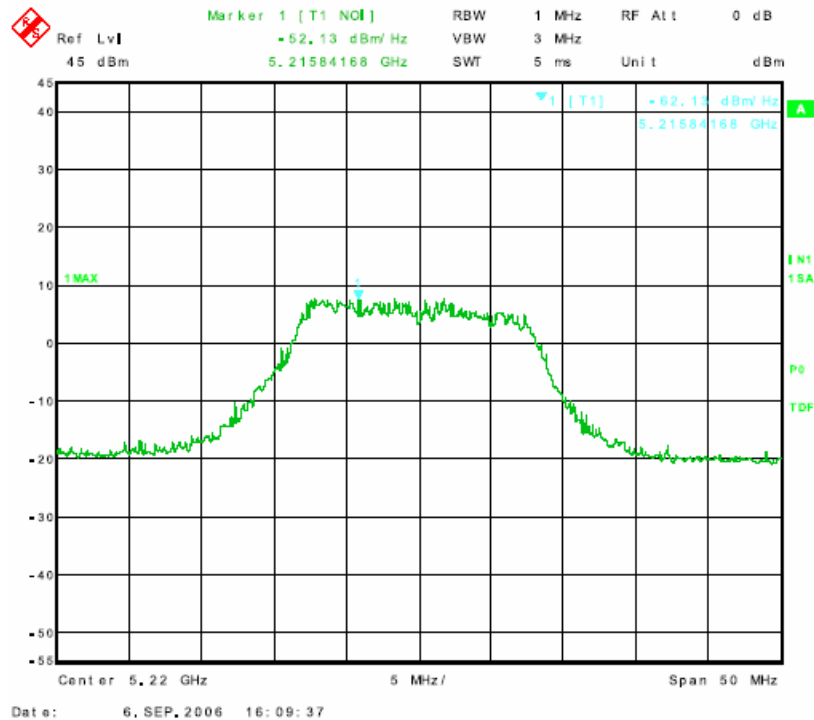
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Test Plot:
CH1



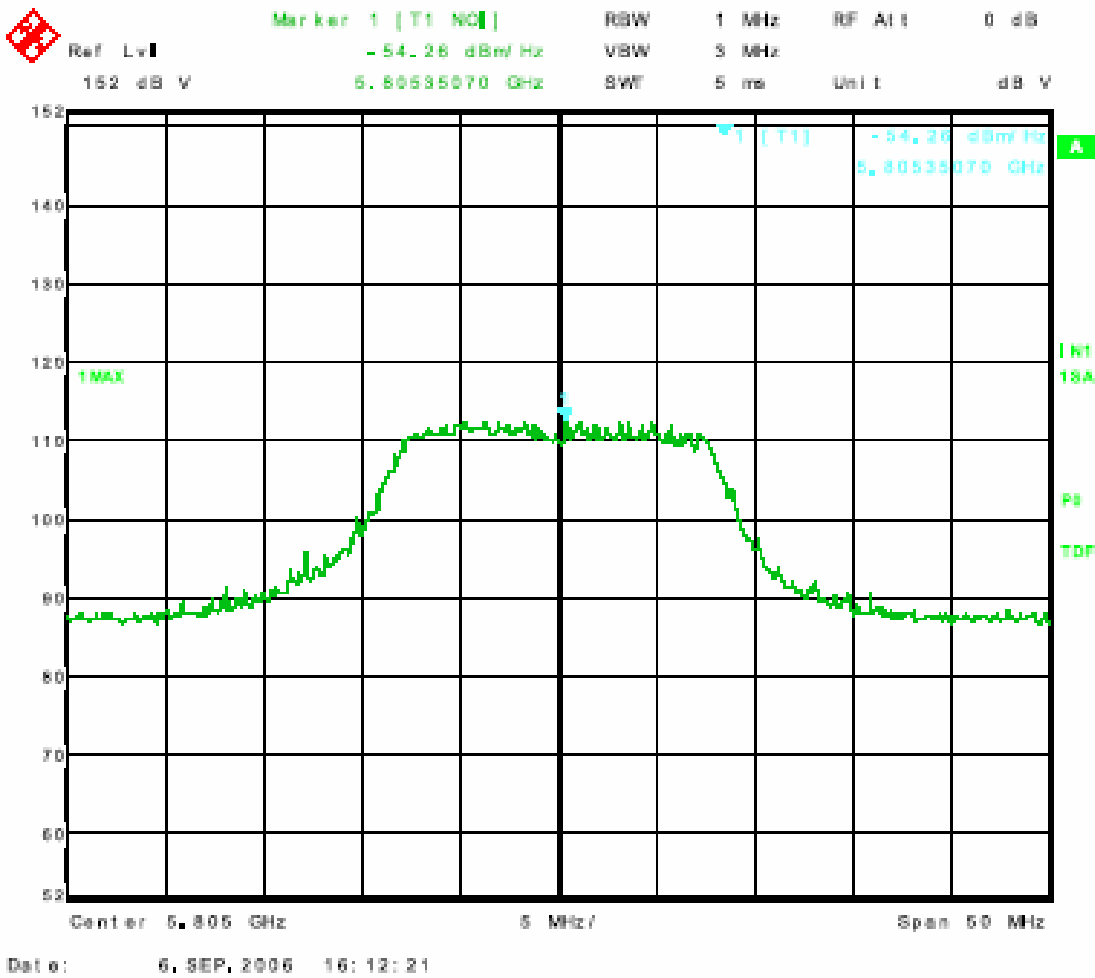
CH4



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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 (°C)	Power supply 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.

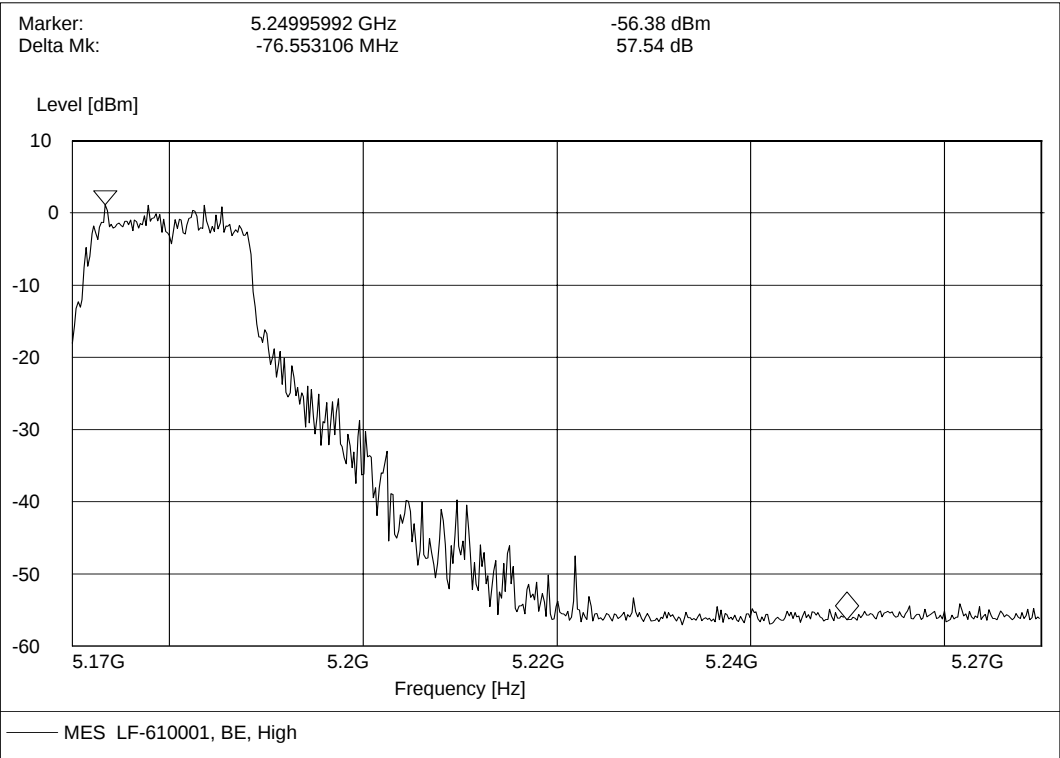
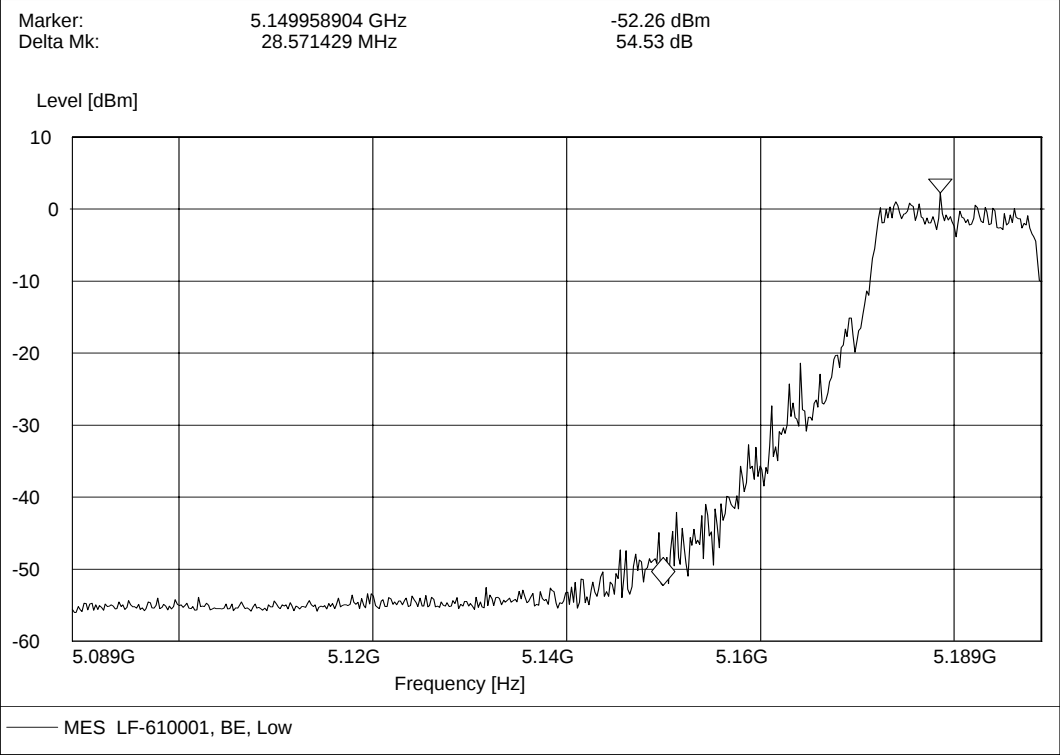
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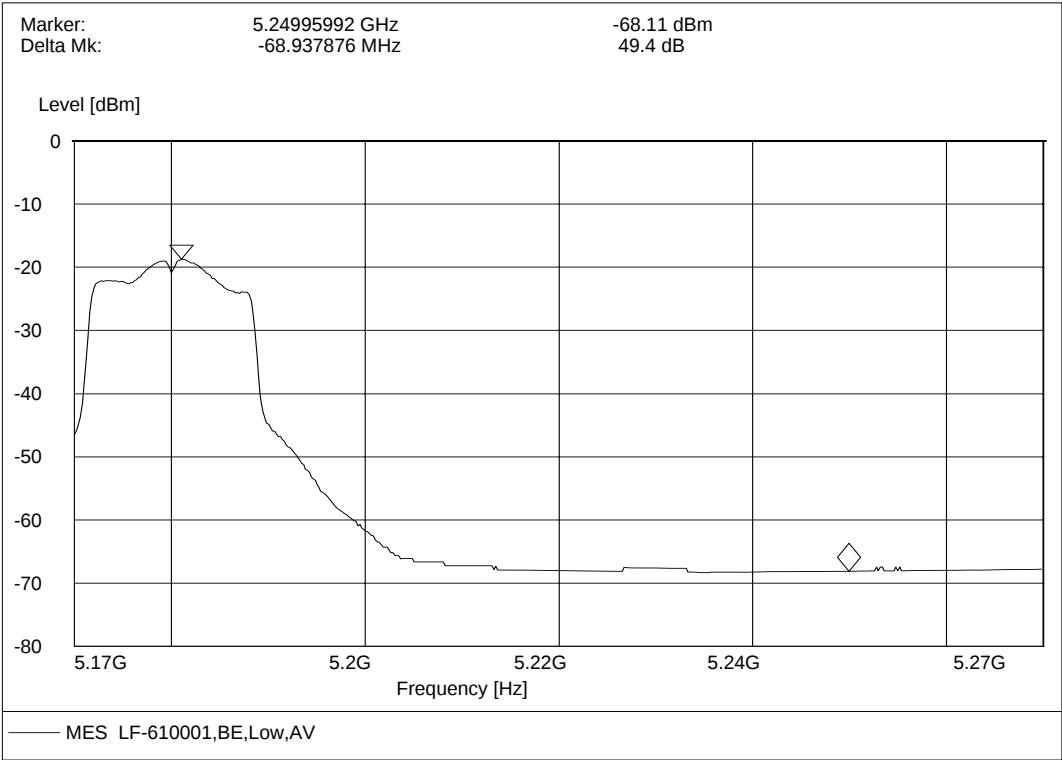
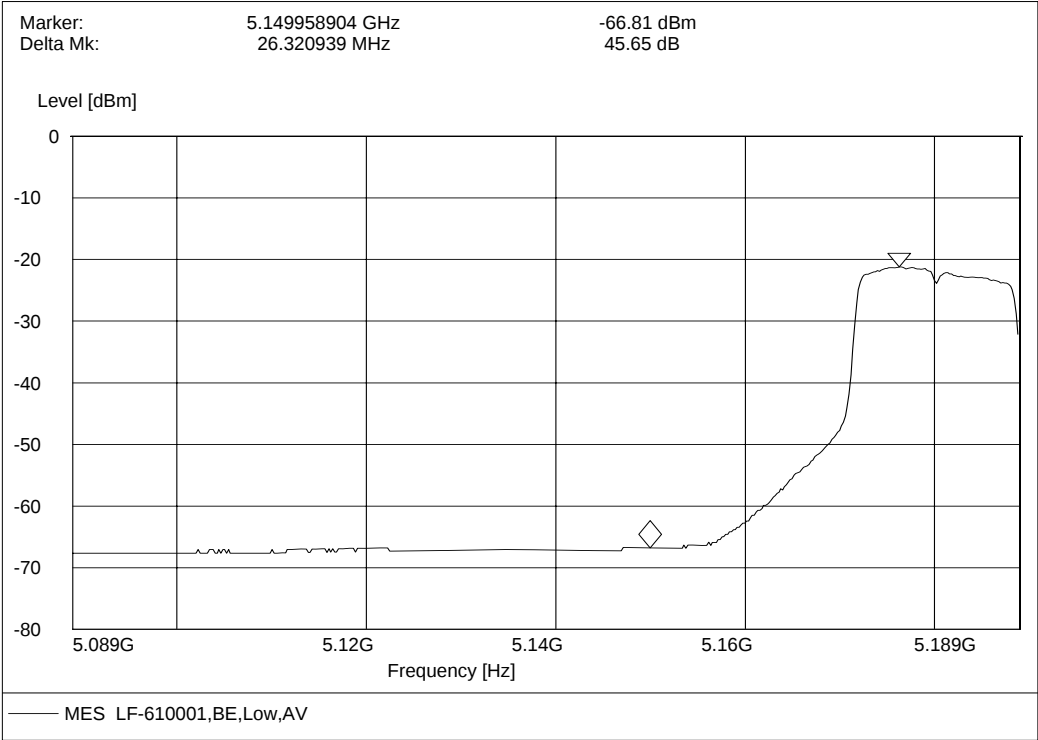
CH1 Peak



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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 $97.8 - 57.31 = 40.49$ 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 $97.8 - 29.18 = 68.62$ 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 $80.5 - 33.79 = 46.71$ dBuV/m which is under 54dBuV/m limit.

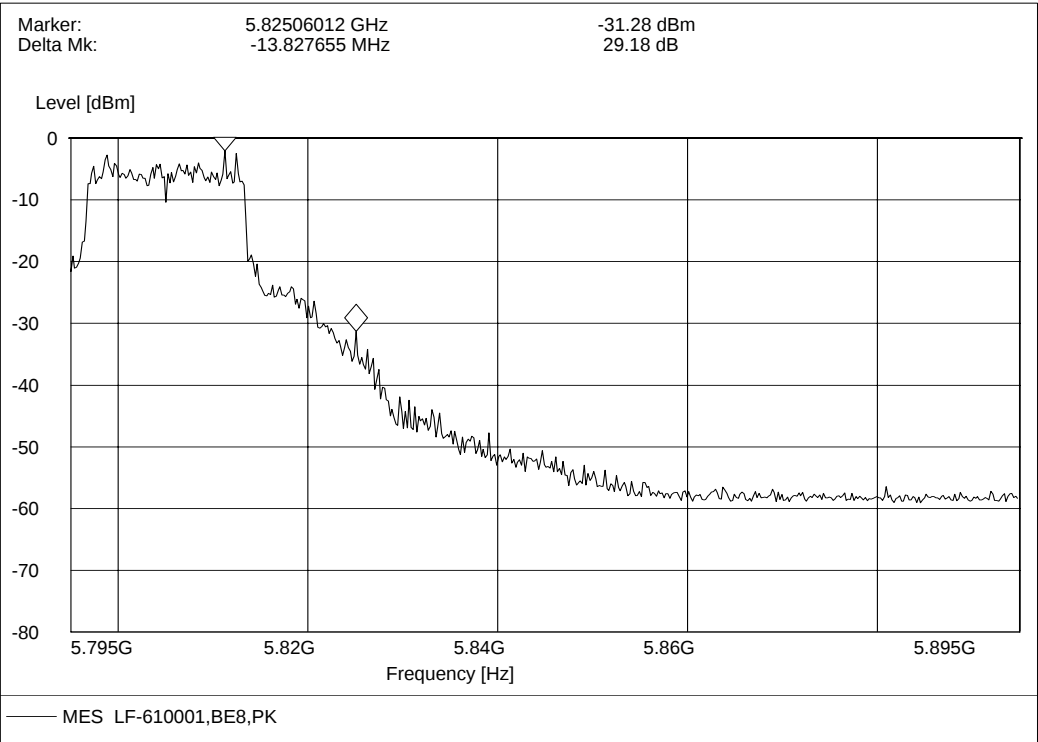
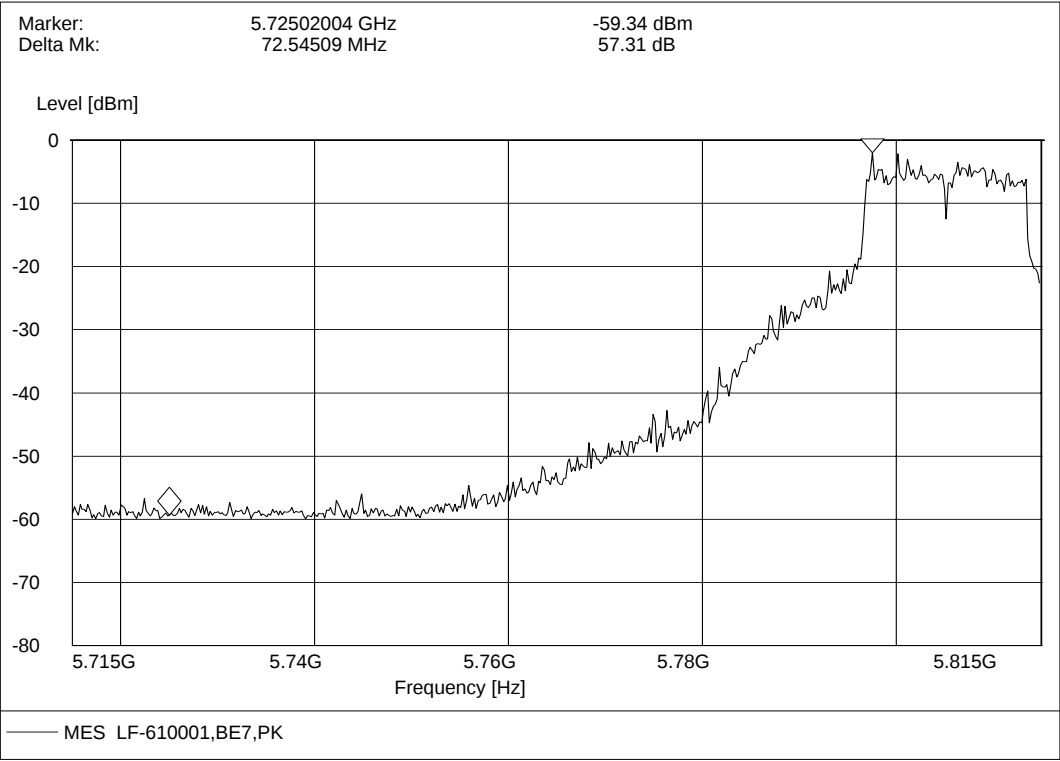
The band edge emission plot on the following second page shows 48.26dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 6 is 80.5dBuV/m (Average), so the maximum field strength in restrict band is $80.5 - 48.26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

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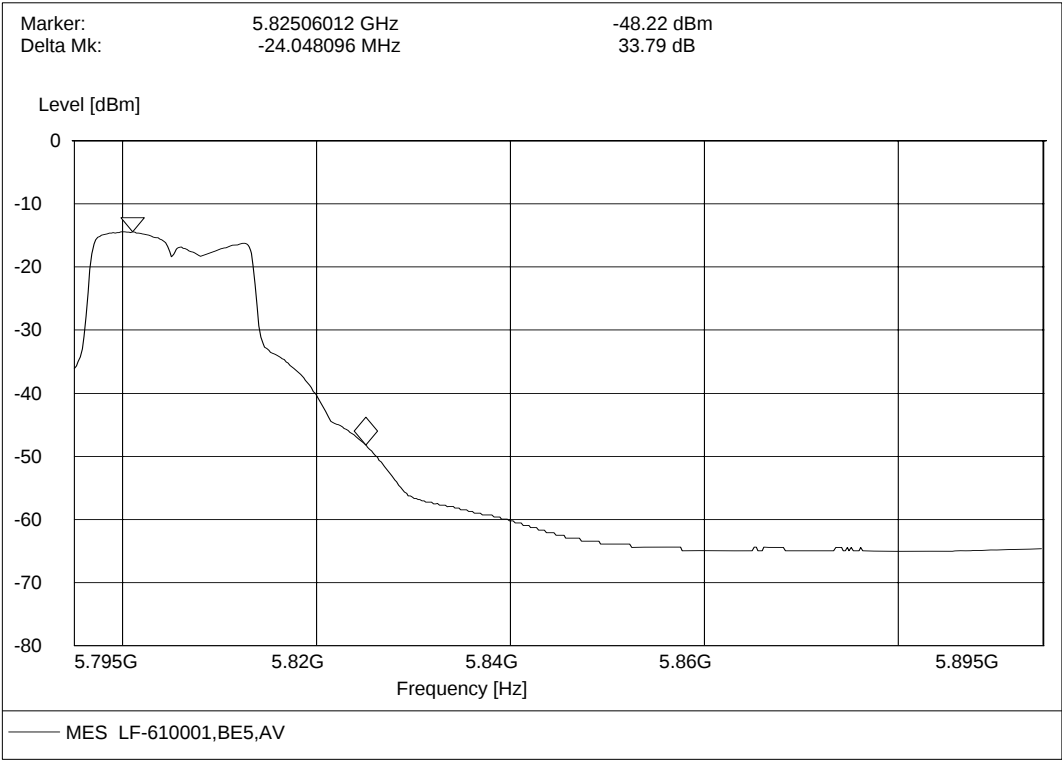
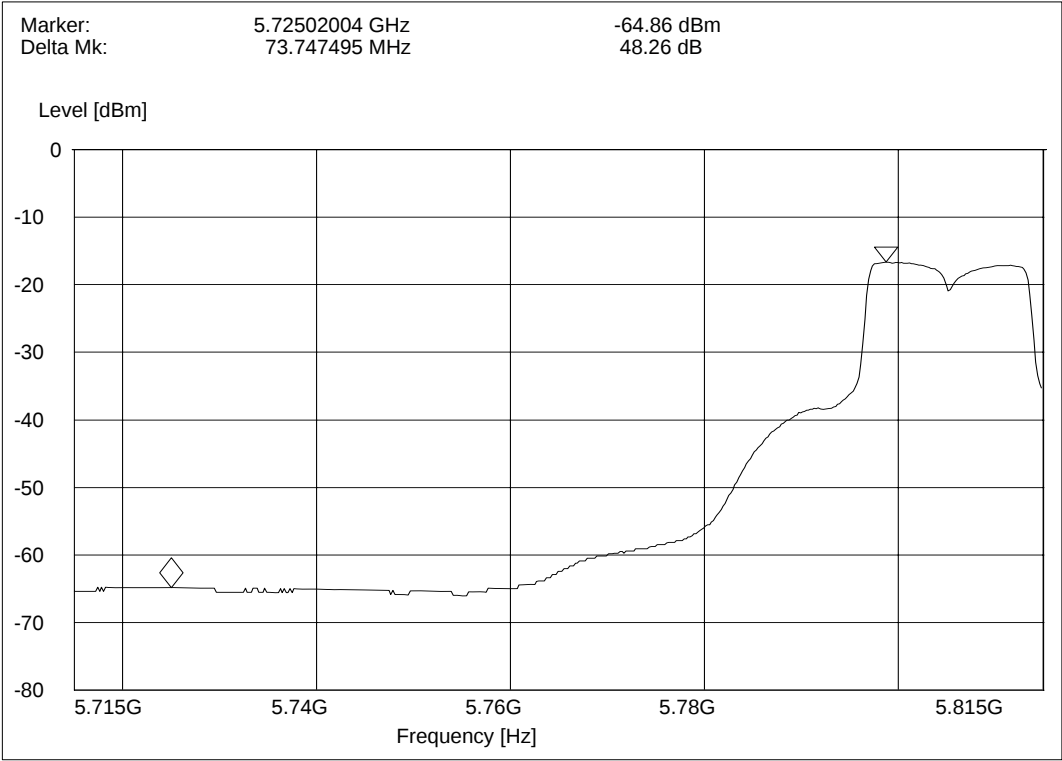
CH6 Peak



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CH6 Average



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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



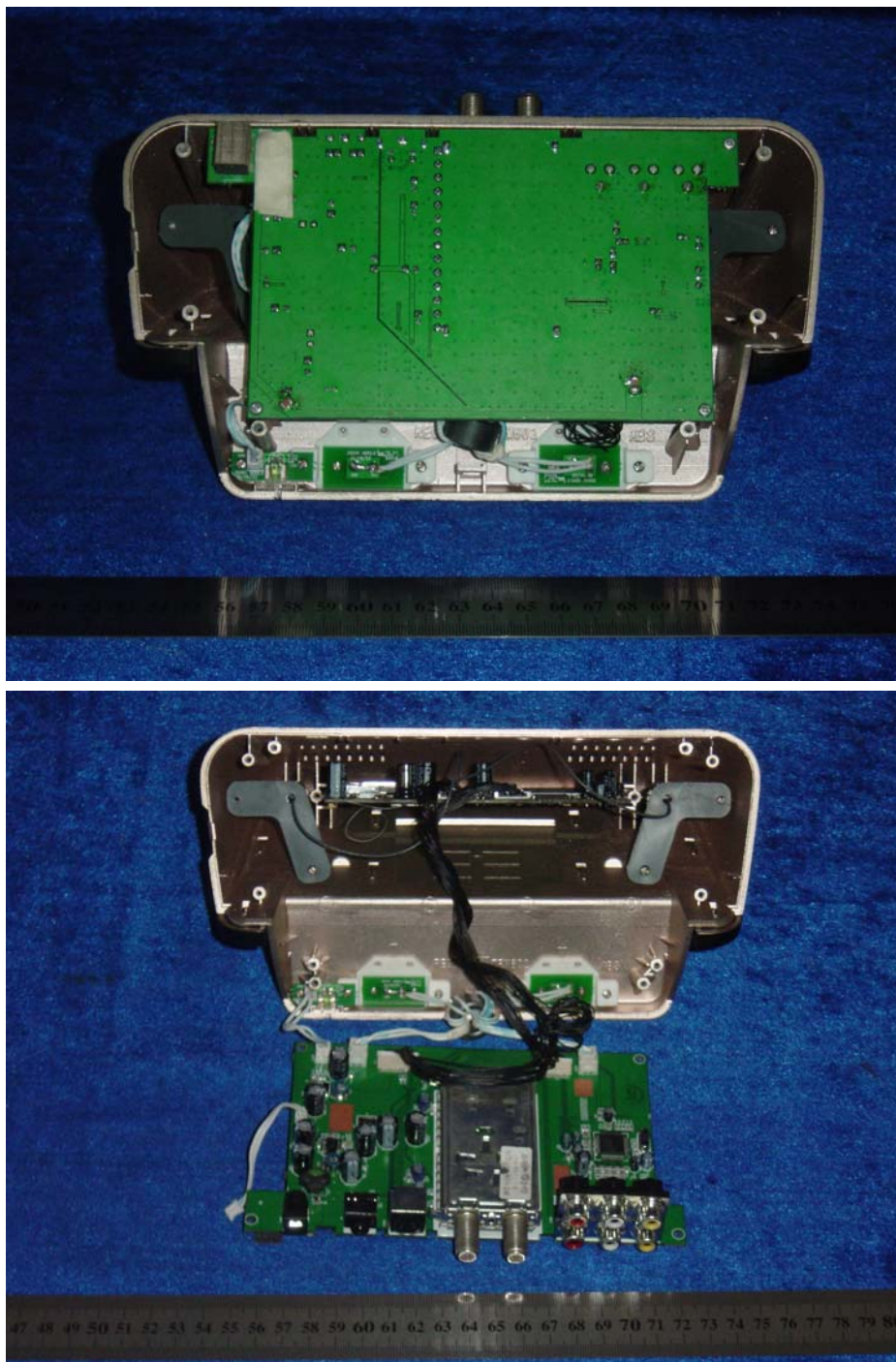
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Interior View



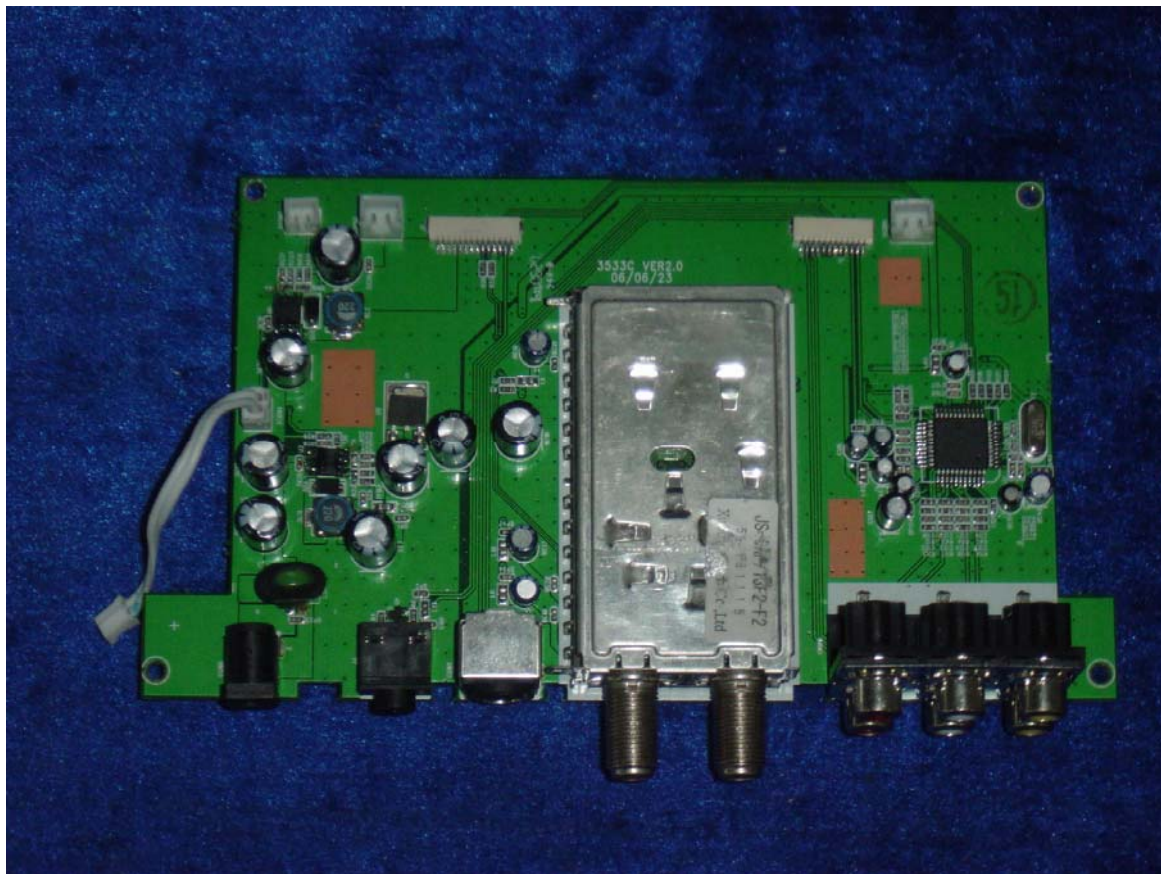
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Interior View



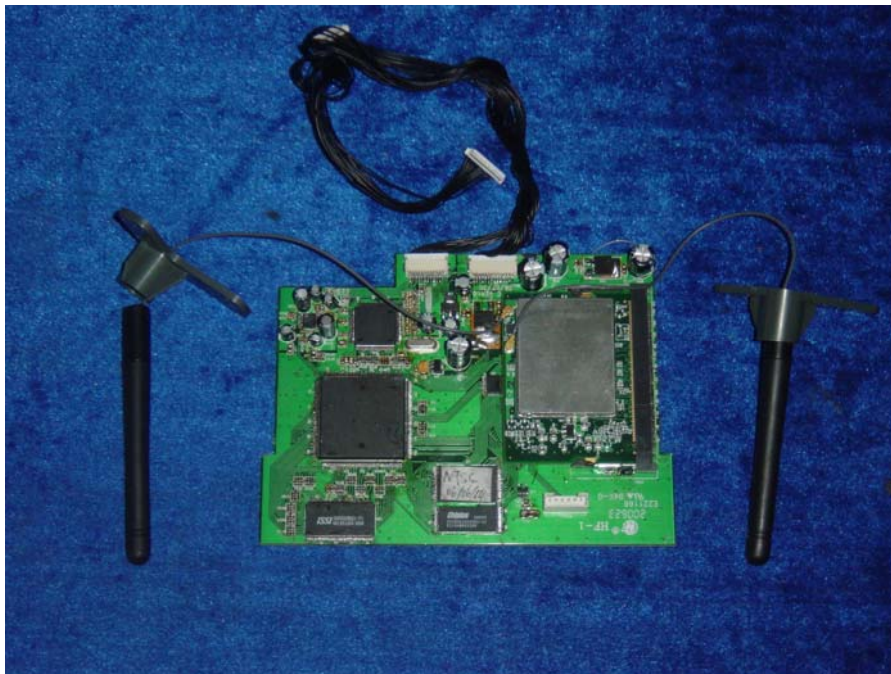
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