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卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025Accredited Lab.

Report No:

FCC 0904080

File reference No:

2009-08-13

Applicant:

SUNGALE ELECTRONICS (SHENZHEN) CO., LTD

Product:

Digital photo frame

Model No:

ID800WT

Trademark:

N/A

Test Standards:

FCC Part 15 Subpart C, Paragraph 15.247& Part 15 Subpart B

Test result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4, Part 15 Subpart B & FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated:

August 13,2009

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

5/F,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.: 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

Content

1.0	General Details	3
1.1	Test Lab Details	3
1.2	Applicant Details	3
1.3	Description of EUT	3
1.4	Submitted Sample	3
1.5	Test Duration	4
1.6	Test Uncertainty	4
1.7	Test By	4
2.0	List of Measurement Equipment	4
3.0	Technical Details	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
4.0	EUT Modification	7
5.0	Power Line Conducted Emission Test	8
5.1	Schematics of the Test	8
5.2	Test Method and Test Procedure	8
5.3	Configuration of the EUT	8
5.4	EUT Operating Condition	9
5.5	Conducted Emission Limit	9
5.6	Test Result	9
6.0	Radiated Emission test	18
6.1	Test Method and Test Procedure	18
6.2	Configuration of the EUT	18
6.3	EUT Operation Condition	18
6.4	Radiated Emission Limit	19
7.0	6dB Bandwidth Measurement	48
8.0	Maximum Peak Output Power	62
9.0	Power Spectral Density Measurement	65
10.0	Out of Band Measurement	73
11.0	Antenna Requirement	78
12.0	Maximum Permissible Exposure	79
13.0	FCC ID Label	80
14.0	Photo of Test Setup and EUT View	81

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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: SUNGALE ELECTRONICS (SHENZHEN) CO., LTD
Address: Yangyong River Industrial District, Shapu, Songgang, Baoan, Shenzhen, 518105, P. R. China
Telephone: +86-755-27428875
Fax: +86-755-27428964

1.3 Description of EUT

Product:	Digital photo frame
Manufacturer:	SUNGALE ELECTRONICS (SHENZHEN) CO., LTD
Brand Name:	N/A
Model Number:	ID800WT
Additional Model Name	ID350IPR; ID700WTA; ID801WT; ID802WT, ID700WT
Additional Trade Name	N/A
Rating:	Input: DC 5V,2A
Power Supply:	Model: FJ-SW1280G007 (Made by Switching) , Input: 100-240V~, 0.60A, 50/60Hz; Output: DC5V, 2AMax
Type of Modulation	DBPSK, DQPSK, CCK
Frequency range	2412-2462MHz
Number of Channel	11
Air Data Rate	54、48、36、24、18、12、9、6Mbps at 802.11g mode; 11、5.5、2、1Mbps at 802.11b mode
Frequency Selection	By software

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2009-04-13 to 2009-08-12

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

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Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2008-12-05	2009-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2008-12-05	2009-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2008-12-05	2009-12-04
Ultra Broadband ANT	Schwarebeck	VULB9163	9163/340	2009.2.22	2010-02-21
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2009-03-30	2010-03-29
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2009-02-18	2010-02-17
Power meter	Anritsu	ML2487A	6K00003613	2009-02-18	2010-02-17
Power sensor	Anritsu	MA2491A	32263	2009-02-8	2010-02-17
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2009-02-18	2010-02-17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2008-08-16	2009-08-15
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2008-07-03	2009-07-02

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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 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(c)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

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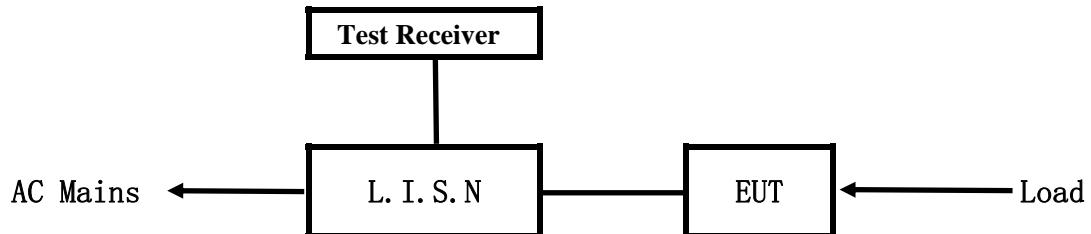
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



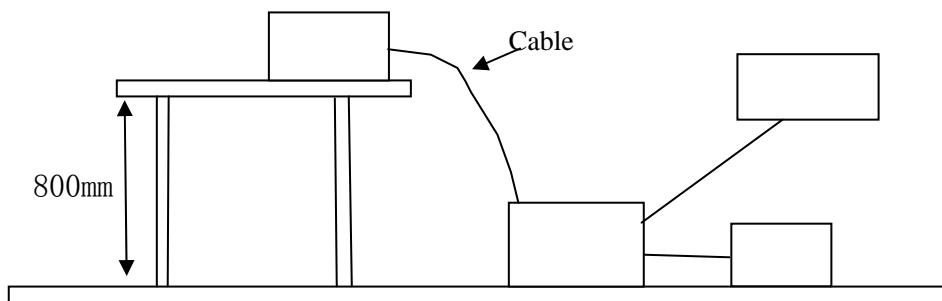
EUT: Equipment Under Test

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.

Test Voltage: 120V~, 60Hz

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.

Two channels are provided to the EUT

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	--	--

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A. EUT

Device	Manufacturer	Model	FCC ID
Digital photo frame	SUNGALE ELECTRONICS (SHENZHEN) CO., LTD	ID800WT	XBIDPFID83571215

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
Keyboard	IBM	KB-0225	DOC	Data cable of 2m length unshielded
Printer	HP	LaserJet 1015	DOC	Data cable of 2m length unshielded and 1.8m length AC Mains cable
Monitor	IBM	6331-4CN	DOC	Data cable of 1.5m length unshielded and 1.8m length AC Mains cable
PC	IBM	8434	DOC	1.8m length AC Mains cable
Mouse	BIGCOW	OM860XC	DOC	Data cable of 1.5m length

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 and 15.107

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
3. Test Voltage: 120V~, 60Hz

5.6 Test Results

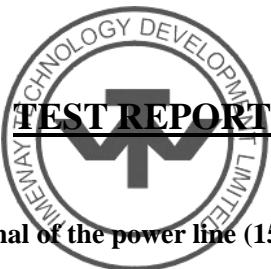
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: the worse cases was selected to conducted the test

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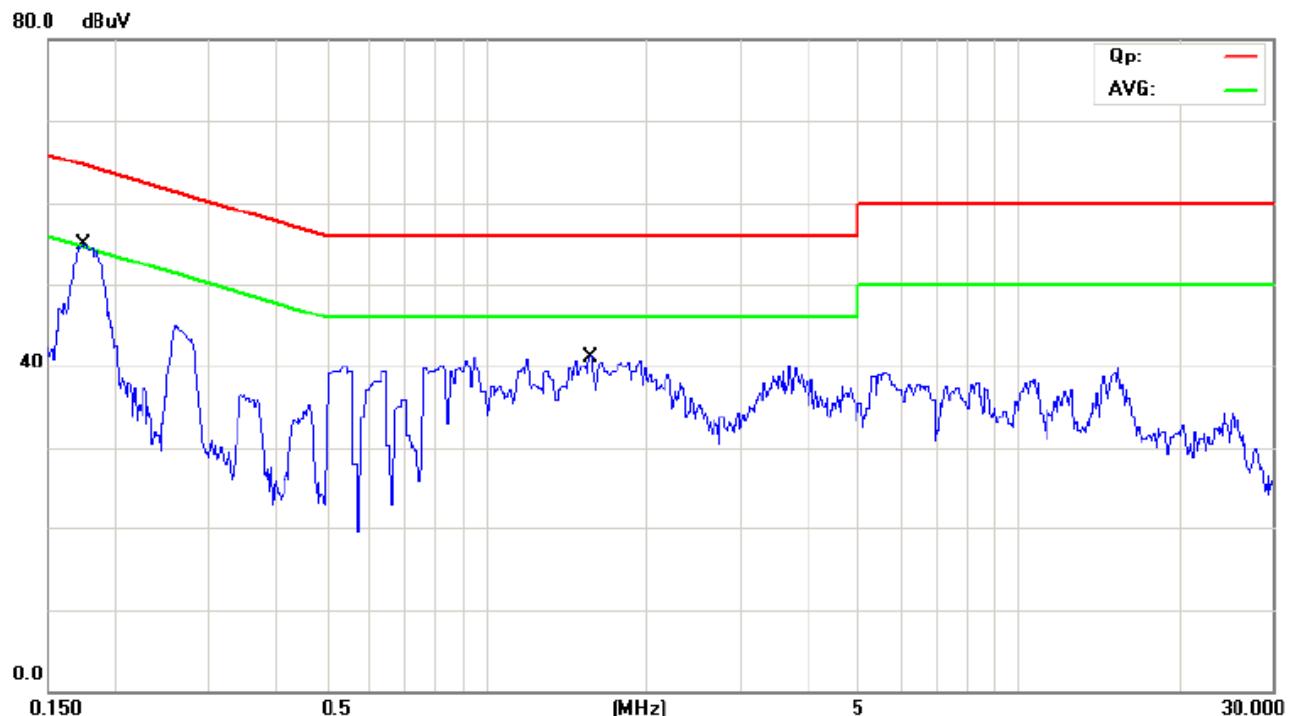
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A Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Memory
Adaptor used for test Model: FJ-SW1280G007
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1727	53.72	31.42	--	--	64.83	54.83
1.5654	39.33	22.33	--	--	56.00	46.00

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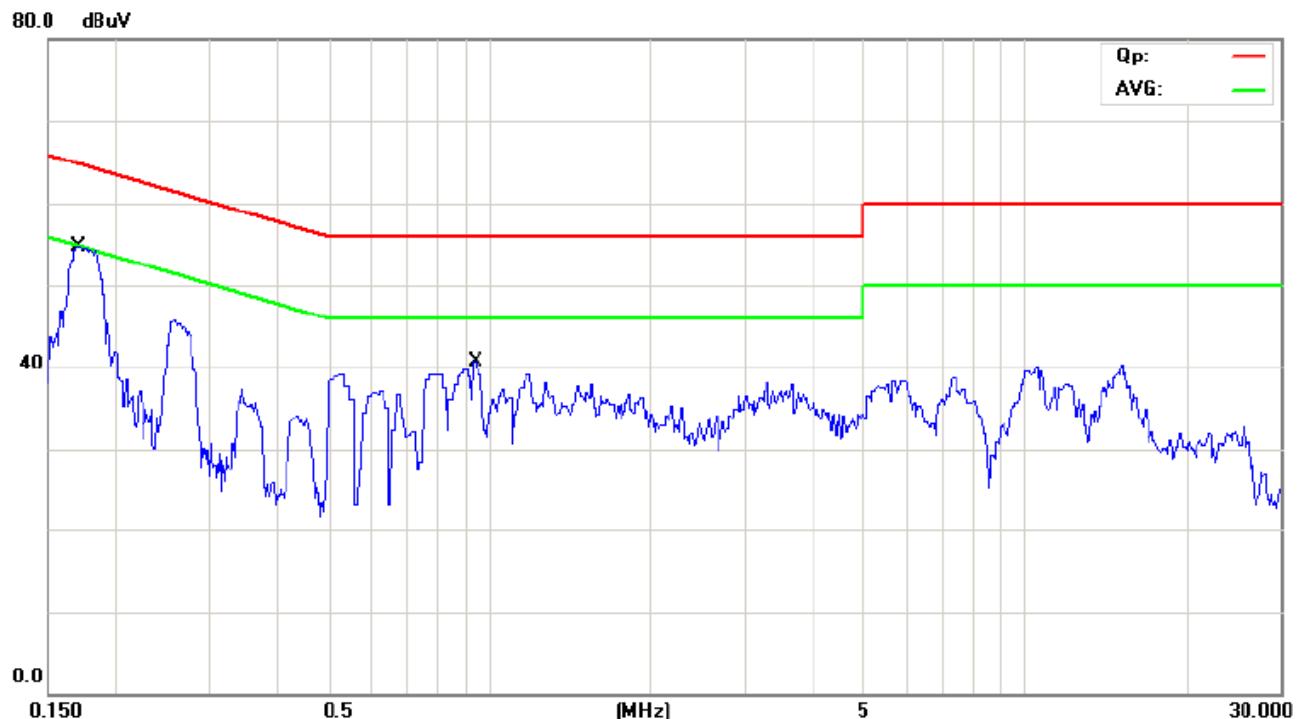
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B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Memory
Adaptor used for test Model: FJ-SW1280G007
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1707	--	--	53.32	38.42	64.93	54.93
0.9383	--	--	39.33	18.23	56.00	46.00

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

EUT set Condition:

CF CARD

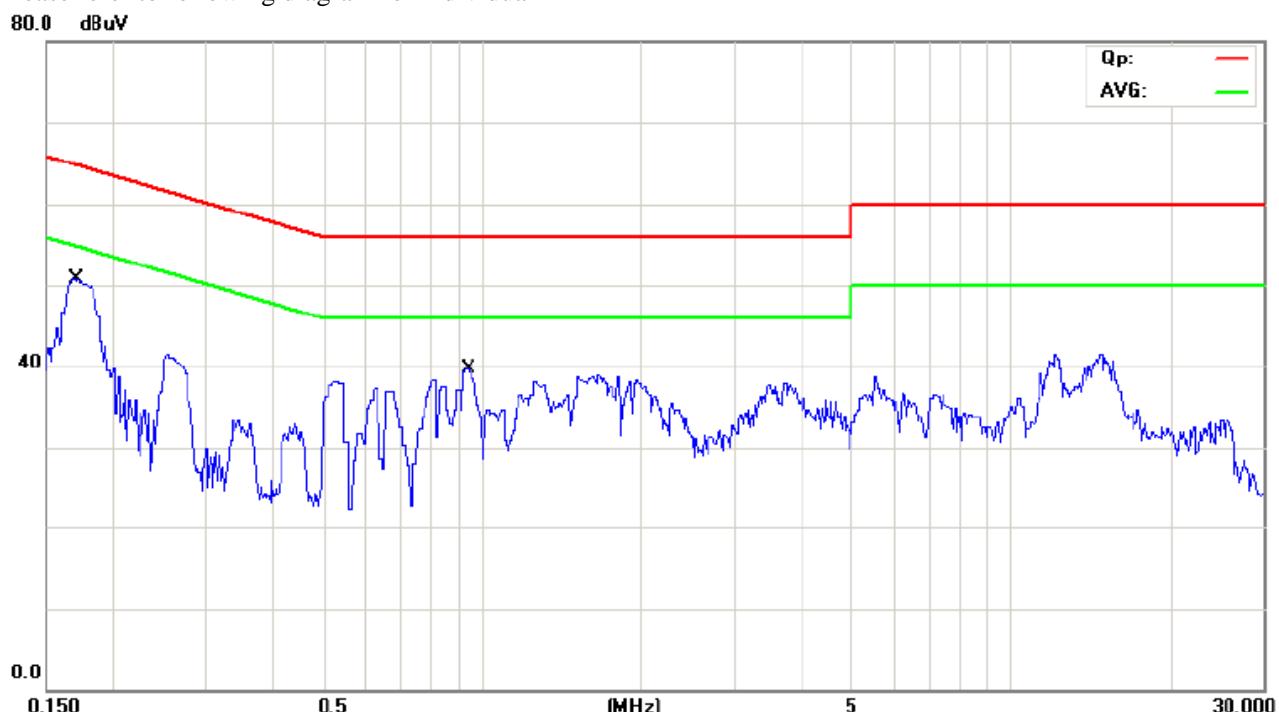
Adaptor used for test

Model: FJ-SW1280G007

Results:

Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1706	49.72	27.32	--	--	64.93	54.93
0.9314	37.23	17.33	--	--	56.00	46.00

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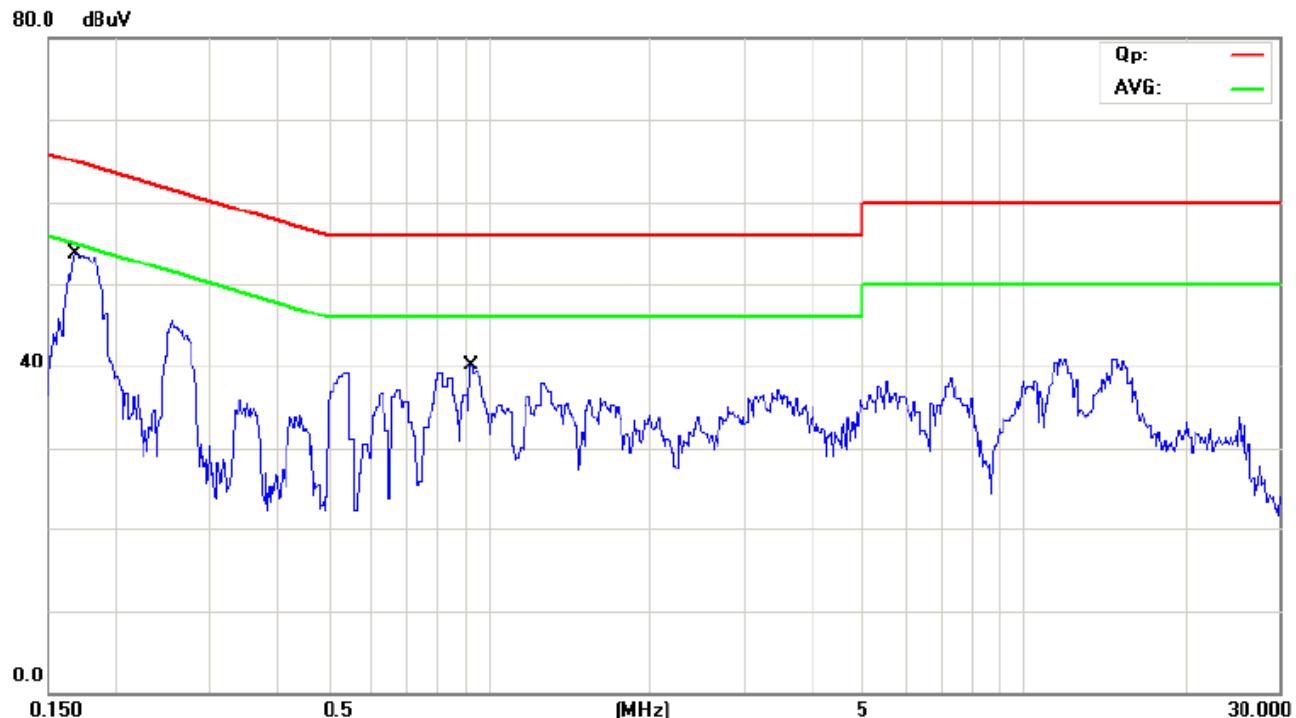
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D Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: CF CARD
Adaptor used for test Model: FJ-SW1280G007
Results: **Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1700	--	--	52.42	38.32	64.96	54.96
0.9330	--	--	35.83	21.23	56.00	46.00

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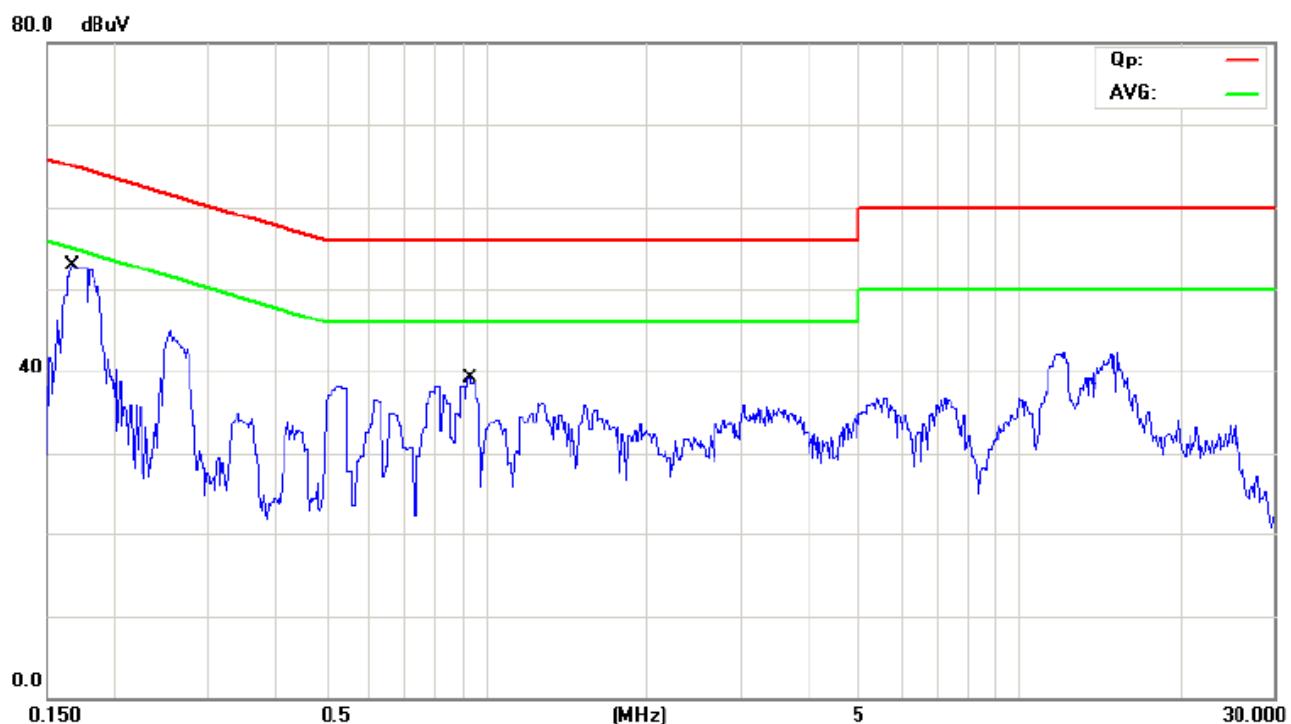
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Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: USB
Adaptor used for test Model: FJ-SW1280G007
Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1682	--	--	51.72	38.32	65.05	55.05
0.9234	--	--	32.92	13.72	56.00	46.00

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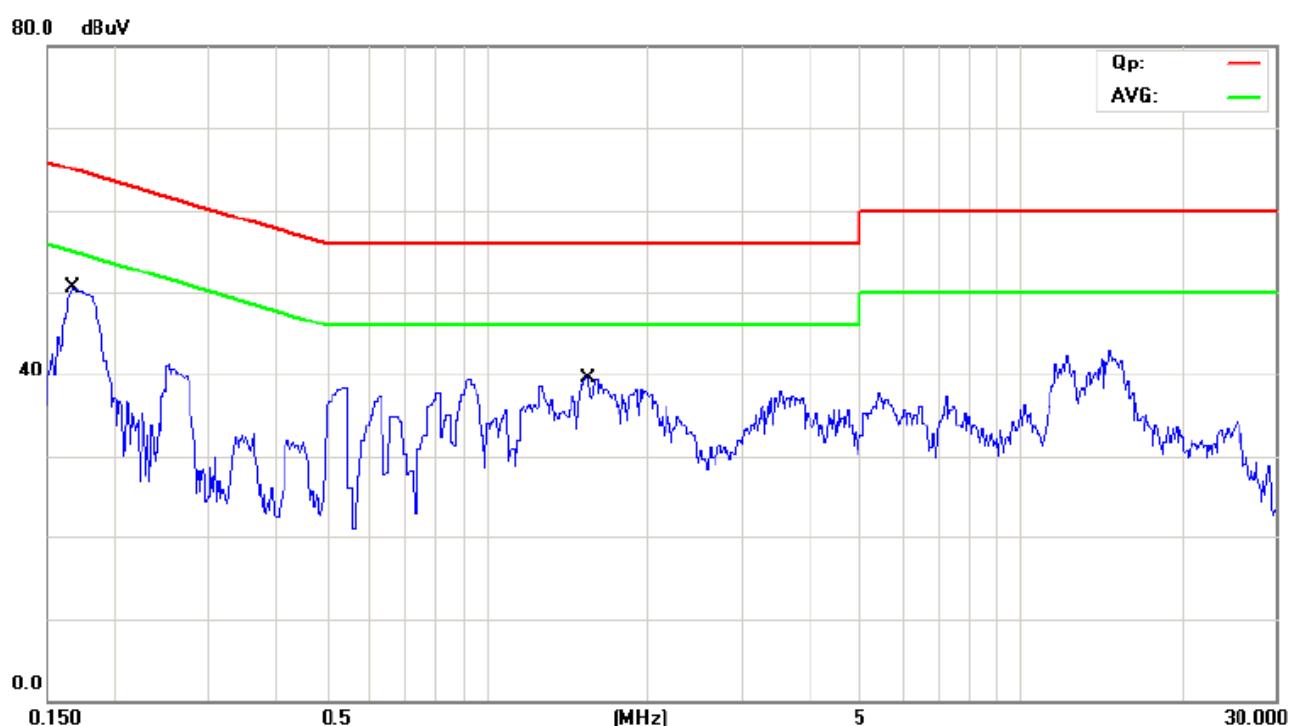
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Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: USB
Adaptor used for test Model: FJ-SW1280G007
Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1692	49.52	26.52	--	--	65.00	55.00
1.5443	37.92	21.92	--	--	56.00	46.00

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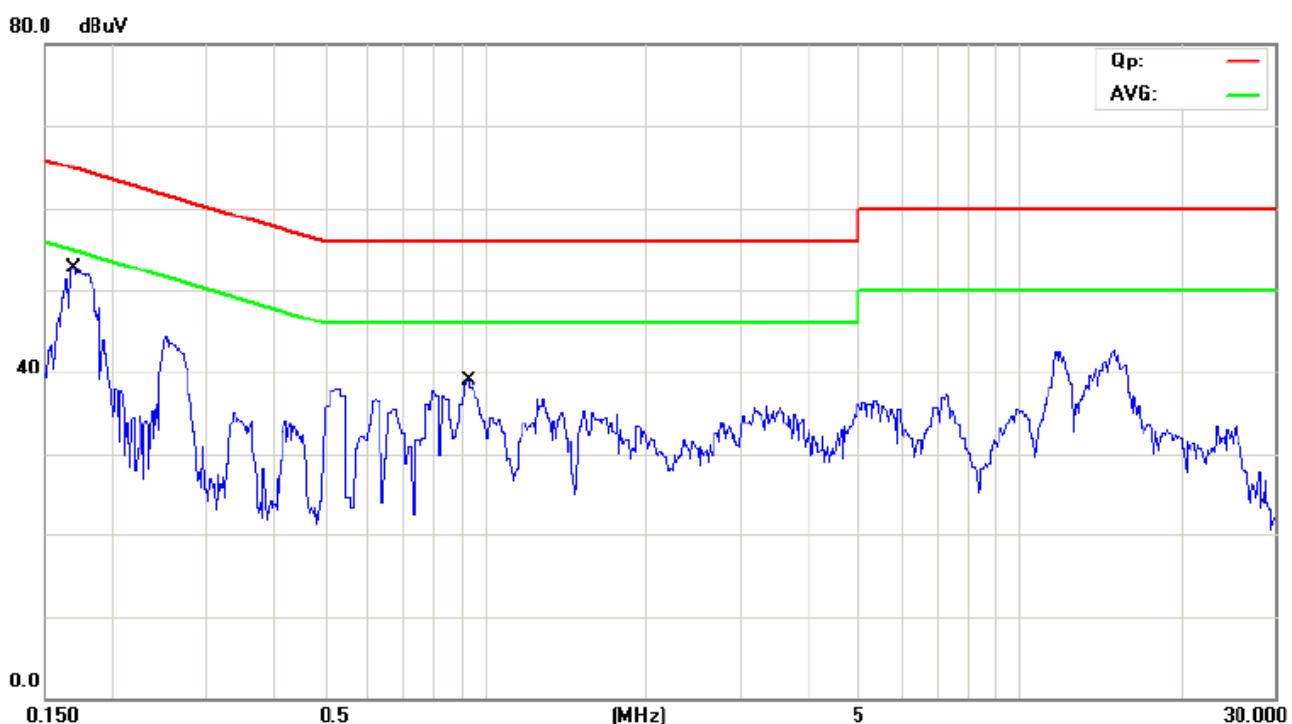
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Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: SD CARD
Adaptor used for test Model: FJ-SW1280G007
Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1688	--	--	51.42	38.42	65.02	55.02
0.9256	--	--	36.62	16.72	56.00	46.00

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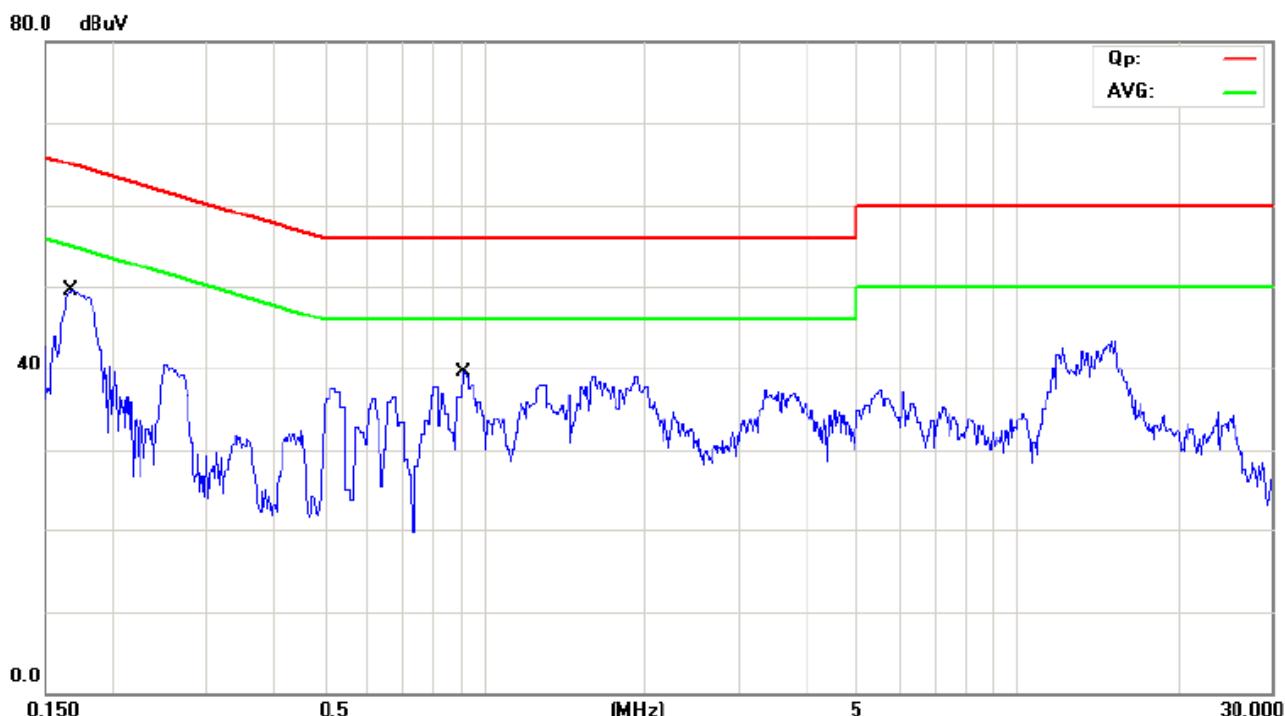
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Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: SD CARD
Adaptor used for test Model: FJ-SW1280G007
Working Voltage: 120V~ 60Hz
Results: **Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1691	48.52	25.02	--	--	65.00	55.00
0.9231	37.22	13.52	--	--	56.00	46.00

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

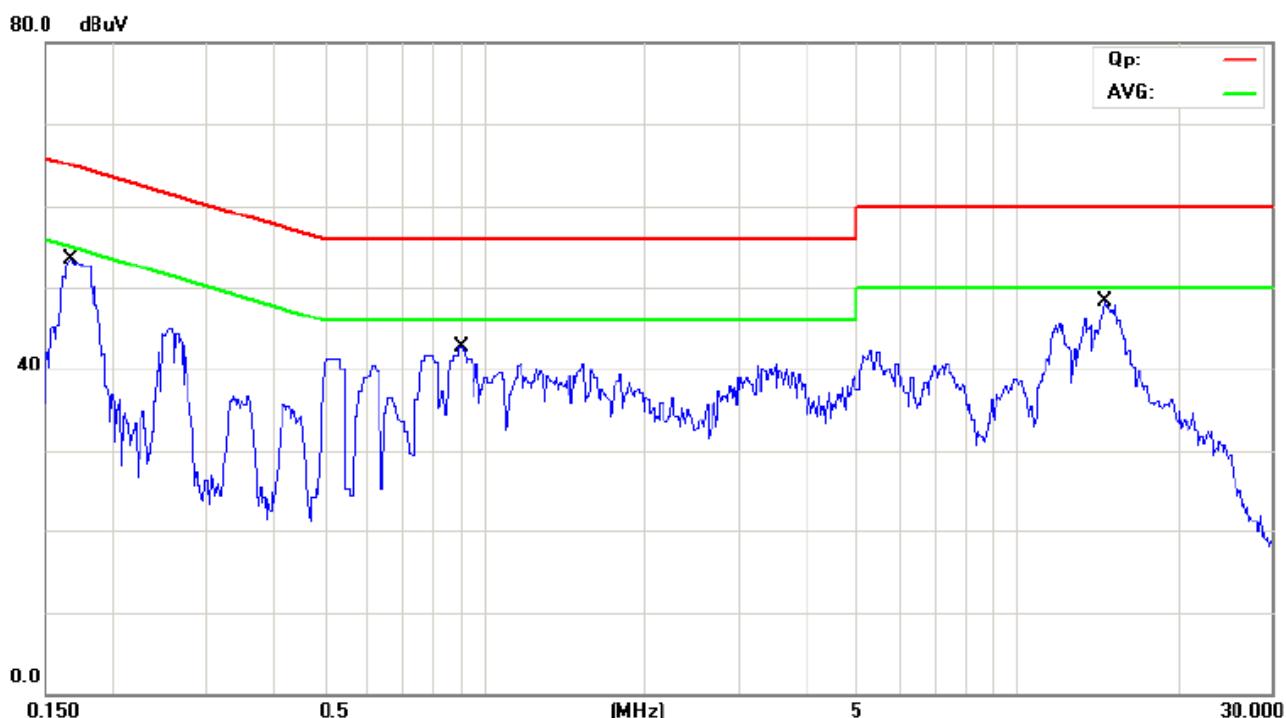
EUT set Condition: Connected to PC and Ping Wireless network

Adaptor used for test Model: FJ-SW1280G007

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1690	--	--	52.32	39.72	65.01	55.01
0.9020	--	--	41.70	16.10	56.00	46.00
14.7130	--	--	43.11	30.31	60.00	50.00

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

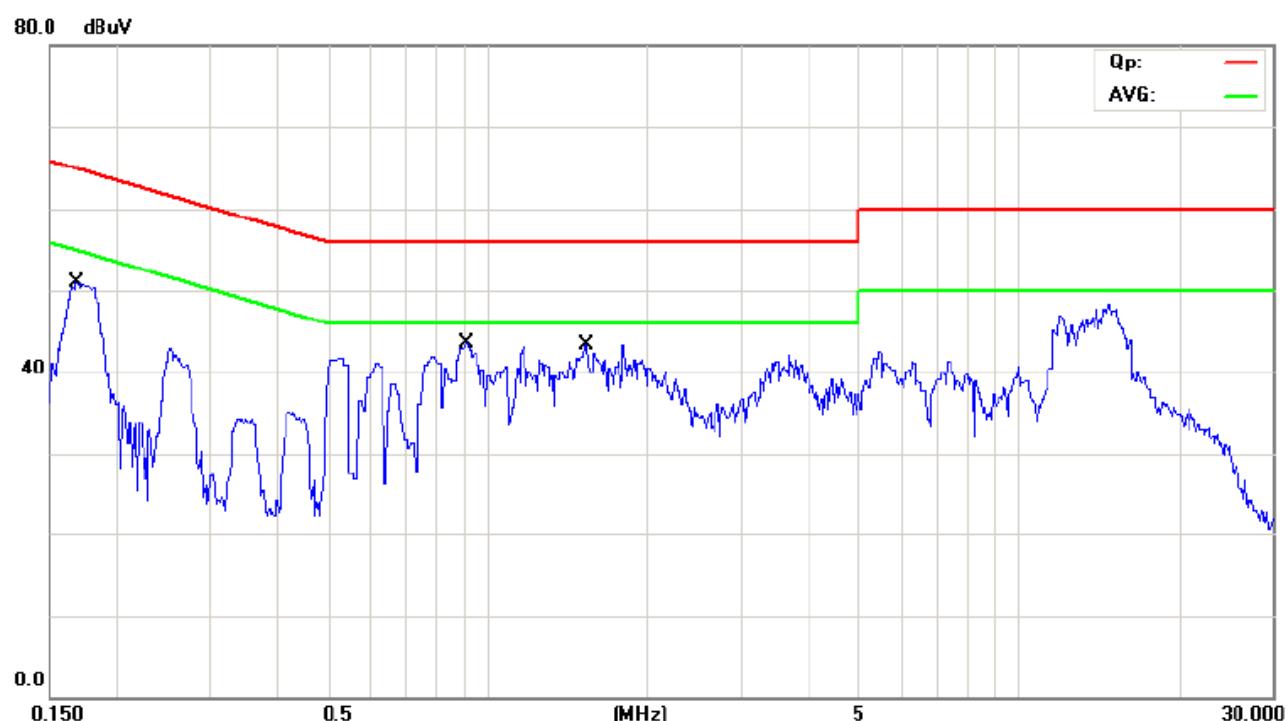
EUT set Condition: Connected to PC and Ping Wireless network

Adaptor used for test Model: FJ-SW1280G007

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.1682	49.52	32.72	--	--	65.05	55.05
0.9035	42.20	16.40	--	--	56.00	46.00
1.5353	41.91	25.91	--	--	56.00	46.00

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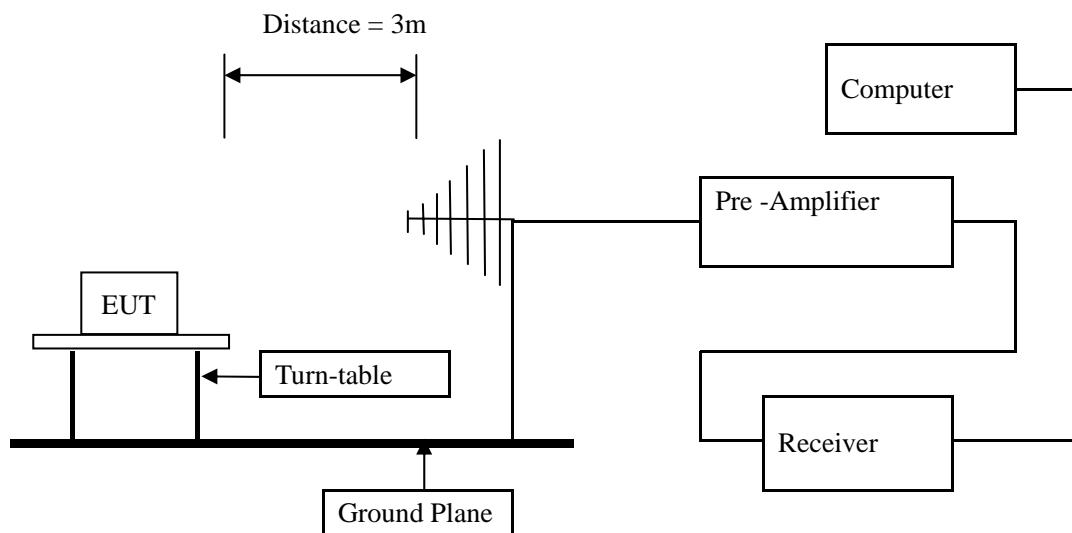


6 Radiated Emission Test

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 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna height 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 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dB_uV) = 20 log RF Voltage (uV)
2. In the Above Table, the higher limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. Test Voltage: 120V~, 60Hz
5. There are two types of antenna used in the EUT, One is PCB antenna with maximum antenna gain 1.0dBi, and the other is such like this: an RF cable connected the IPX connector with maximum antenna gain 1.7dBi. WiFi Module Control Unit can check the signal strength of the two antennas, and decide use which one through control the RF switch unit. In the same time just One Antenna is working. Both antennas were tested and worst case emissions reported

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Memory
Adaptor used for test Model: FJ-SW1280G007
Results: **Pass**

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
208.92	37.48	H	43.50
560.00	39.88	H	46.00
784.00	41.69	H	46.00
37.32	34.99	V	40.00
336.00	44.50	V	46.00
784.00	45.30	V	46.00

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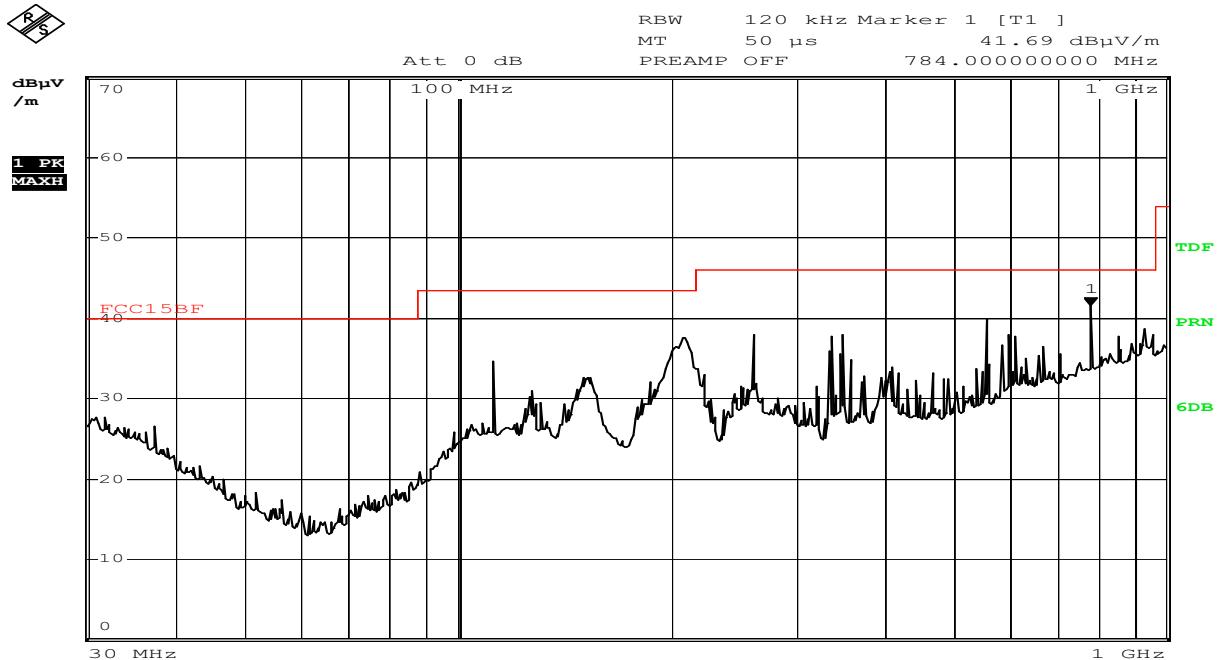
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Test Figure:

RS

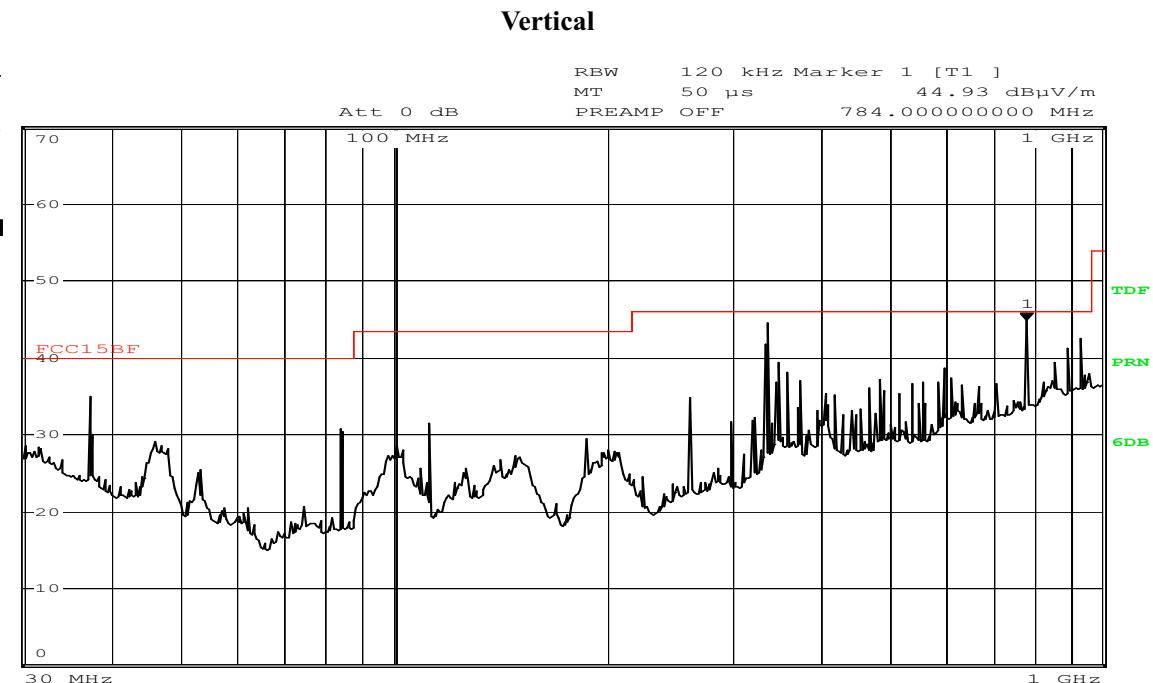
Horizontal



Comment: H
Date: 7.MAY.2009 18:35:31

Vertical

RS



Comment: V
Date: 7.MAY.2009 18:37:33

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: USB
Adaptor used for test Model: FJ-SW1280G007
Working Voltage: 120V~ 60Hz

Results: **PASS**

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
206.12	36.57	H	43.50
260.32	39.69	H	46.00
336.00	41.84	H	46.00
600.00	42.76	H	46.00
261.32	37.45	V	46.00
336.00	45.32	V	46.00
784.50	43.38	V	46.00

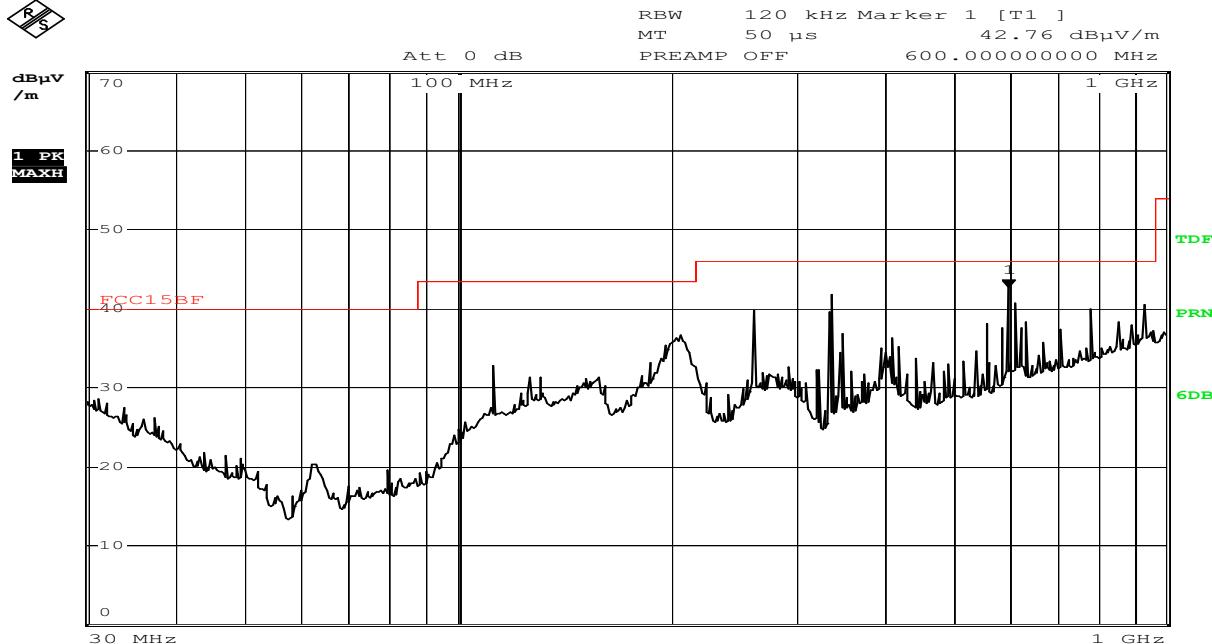
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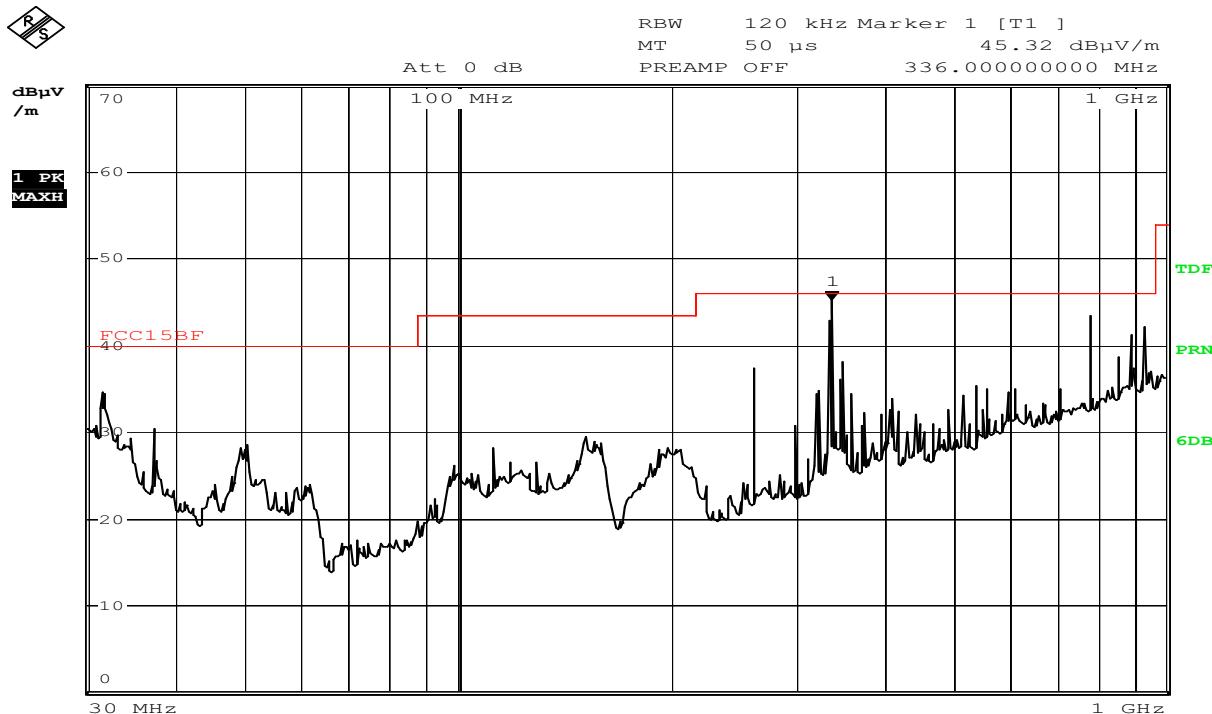
R5



Comment: H
Date: 8.MAY.2009 20:32:48

Vertical

R5



Comment: V
Date: 8.MAY.2009 20:41:21

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EUT set Condition: SD CARD
Adaptor used for test Model: FJ-SW1280G007
Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
37.32	34.98	H	40.00
375.00	40.77	H	46.00
784.00	43.5	H	46.00
206.28	37.58	V	43.50
405.00	41.16	V	46.00
600.00	43.67	V	46.00

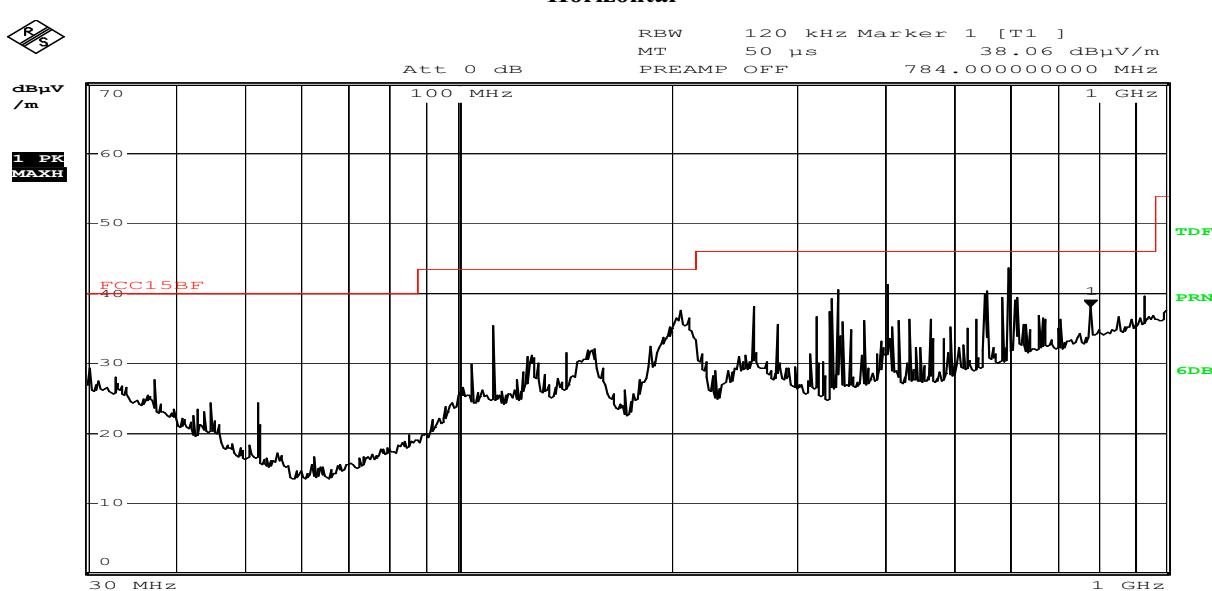
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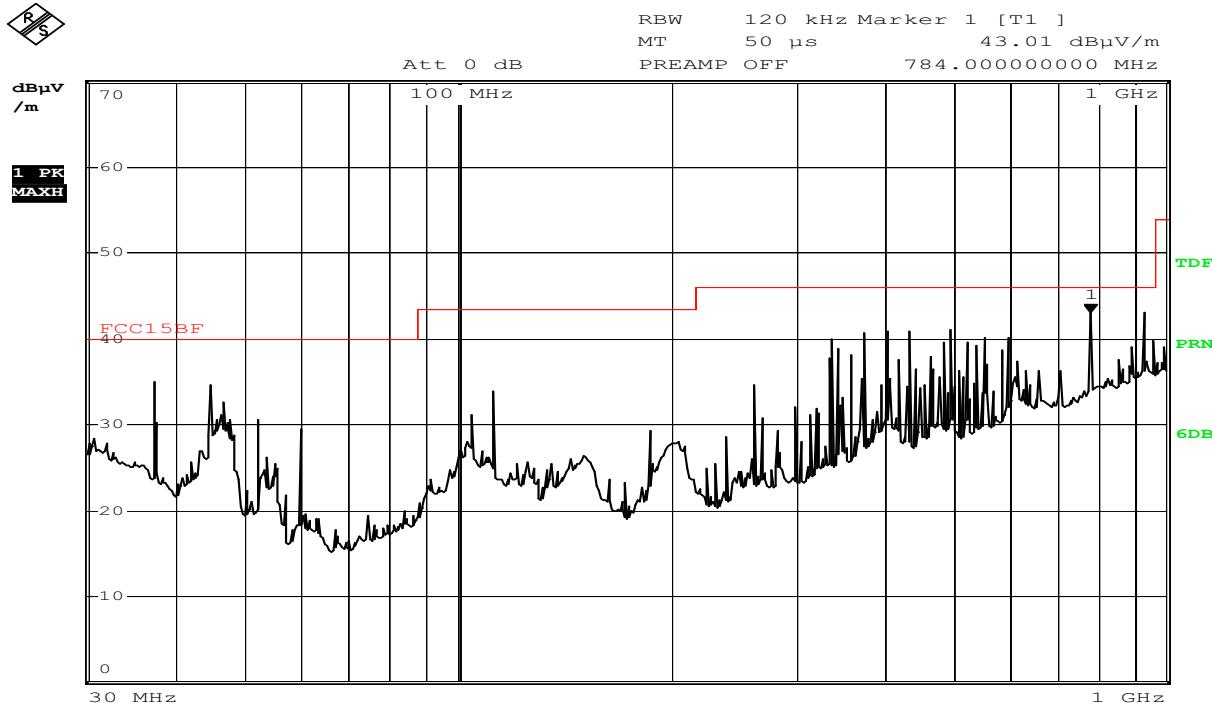


Test Figure:



Comment: H
Date: 7.MAY.2009 18:49:54

Vertical



Comment: V
Date: 7.MAY.2009 18:45:07

Note: Emission level (dBμV/m) = Antenna Factor (dB/m) + Cable loss (dB) + Meter Reading (dBμV).

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: CF CARD
Adaptor used for test Model: FJ-SW1280G007
Working Voltage: 120V~ 60Hz

Results: **PASS**

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
203.96	38.16	H	43.50
336.00	39.44	H	46.00
560.00	42.00	H	46.00
37.32	34.69	V	40.00
336.00	44.90	V	46.00
896.00	42.89	V	46.00

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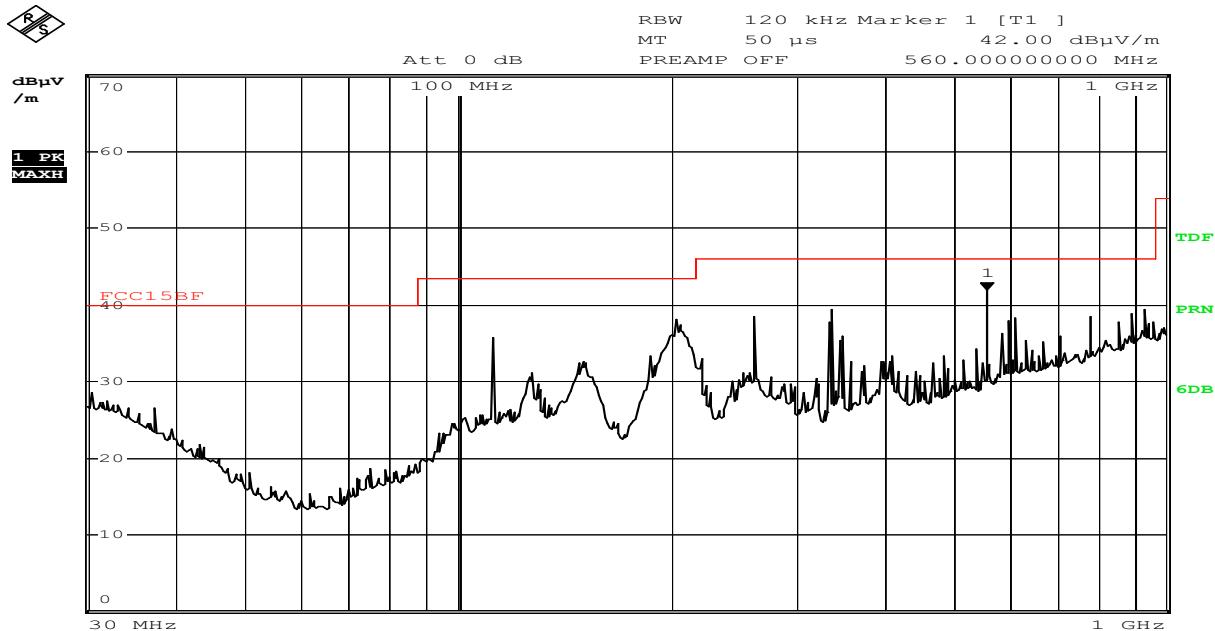
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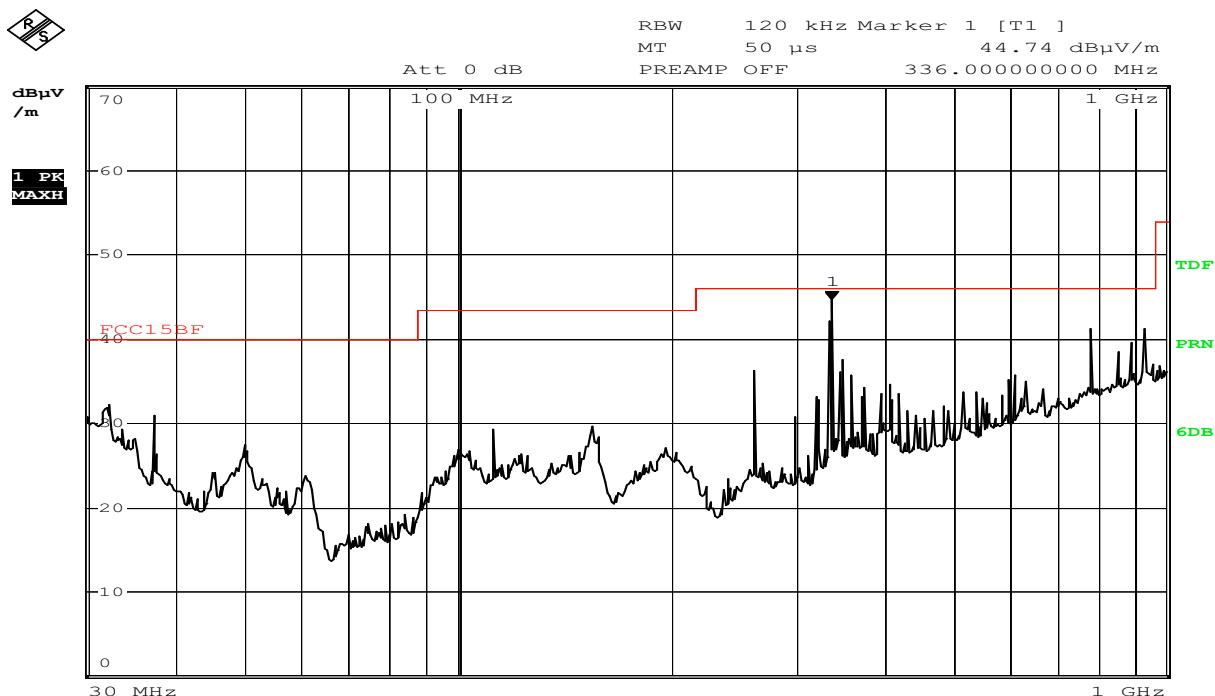
Test Figure:

Horizontal



Comment: H
Date: 7.MAY.2009 18:53:34

Vertical



Comment: V
Date: 8.MAY.2009 20:51:51

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Connected to PC and Ping Wireless network

Adaptor used for test Model: FJ-SW1280G007

Working Voltage: 120V~ 60Hz

Results: **PASS**

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
203.76	37.38	H	43.50
372.00	42.20	H	46.00
648.00	41.80	H	46.00
360.00	42.70	V	46.00
784.00	43.10	V	46.00

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REW 100 kHz RAMP 1 [11]
 MT 100 ms 41.80 dB μ V/m
 PREAMP OFF 648.000000000 MHz
 Att 0 dB

100 MHz 1 GHz

TDF

PRN

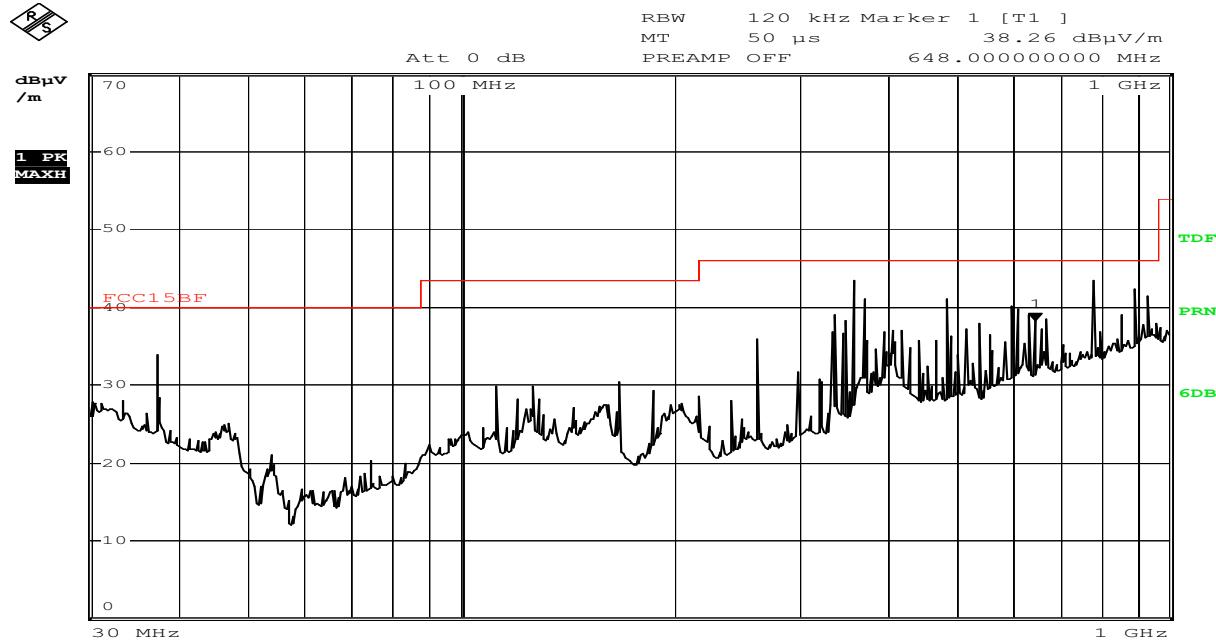
6DB

1

1 GHz

Comment: v
Date: 7.MAY.2009 19:19:53

Vertical



Comment: v
Date: 7.MAY.2009 19:21:41

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Operation Mode: Transmitting & Receiving under CH01 at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	80.96 (PK) /74.25 (AV)	H	Fundamental Frequency
2412.00	84.35 (PK) /77.79 (AV)	V	
4824.00	41.7(Peak)/32.3 (AV)	V	74(Peak)/ 54(AV)
4824.00	--	H	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
 2. Remark “---” means that the emissions level is too low to be measured
 3. For 802.11g mode 6Mbps

Operation Mode: Transmitting & Receiving under CH06 at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	81.77 (PK) /77.23 (AV)	H	Fundamental Frequency
2437.00	83.57 (PK) /79.18 (AV)	V	
4874.00	55.0 (Peak)/ 42.6 (AV)	V	74(Peak)/ 54(AV)
4874.00	--	H	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
 2. Remark “---” means that the emissions level is too low to be measured
 3. For 802.11g mode 6Mbps

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Operation Mode: Transmitting & Receiving under CH11 at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	81.65 (PK) /76.49 (AV)	H	Fundamental Frequency
2462.00	85.26 (PK) /78.19 (AV)	V	
4924	54.6 (Peak)/ 43.1 (AV)	V	74(Peak)/ 54(AV)
4824	--	H	74(Peak)/ 54(AV)
7368	51.2 (Peak)/ 39.2 (AV)	V	74(Peak)/ 54(AV)
7368	--	H	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24650	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark “---” means that the emissions level is too low to be measured
3. For 802.11g mode at 6Mbps

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

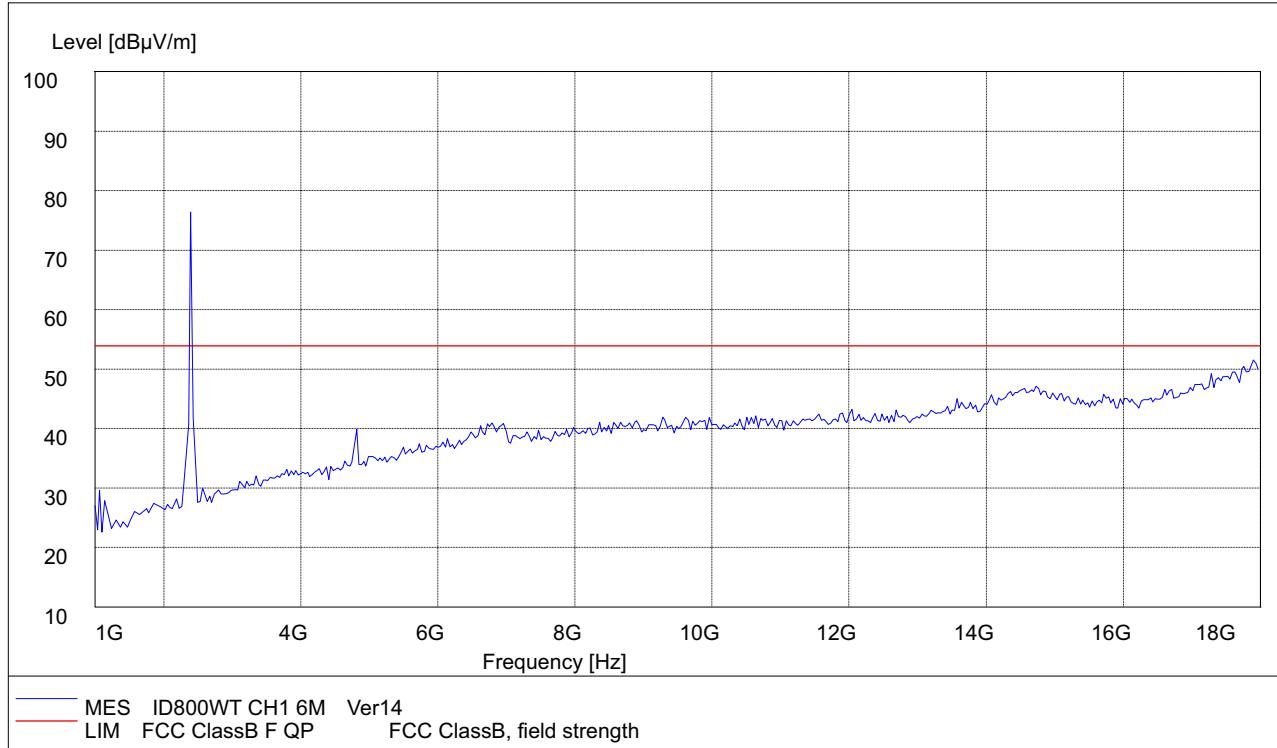
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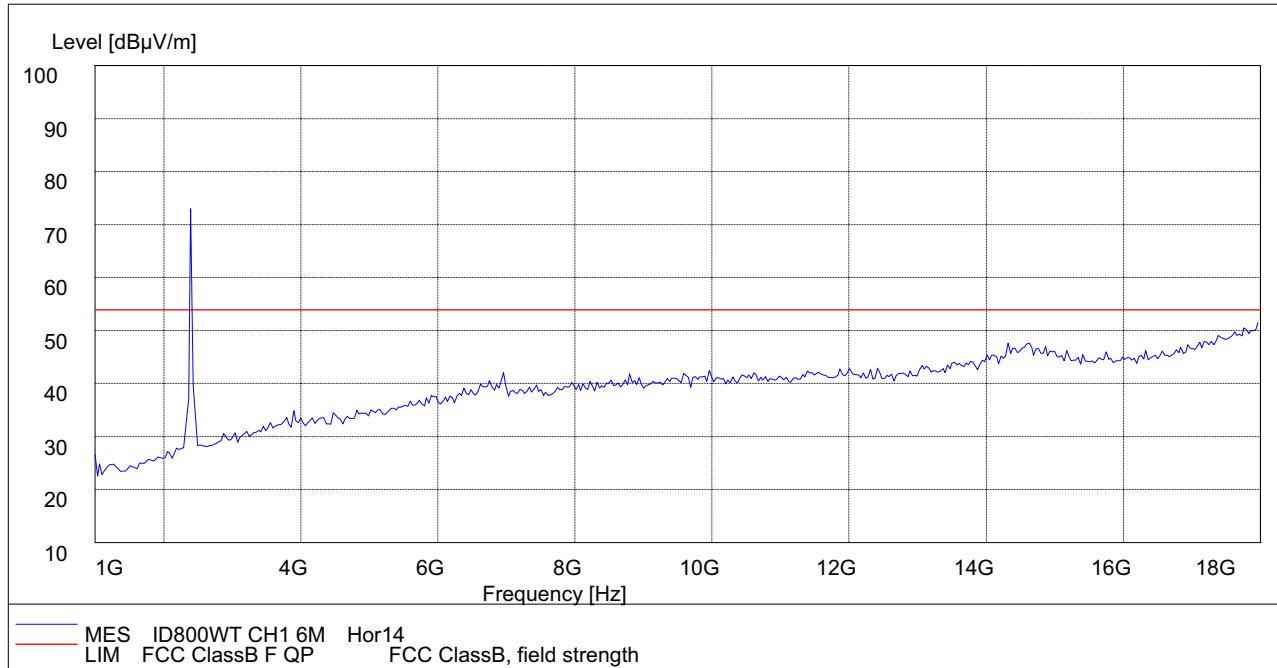


Please refer to the following test plots for details:

CH01 at 6Mbps: Vertical



CH01 at 6Mbps: Horizontal



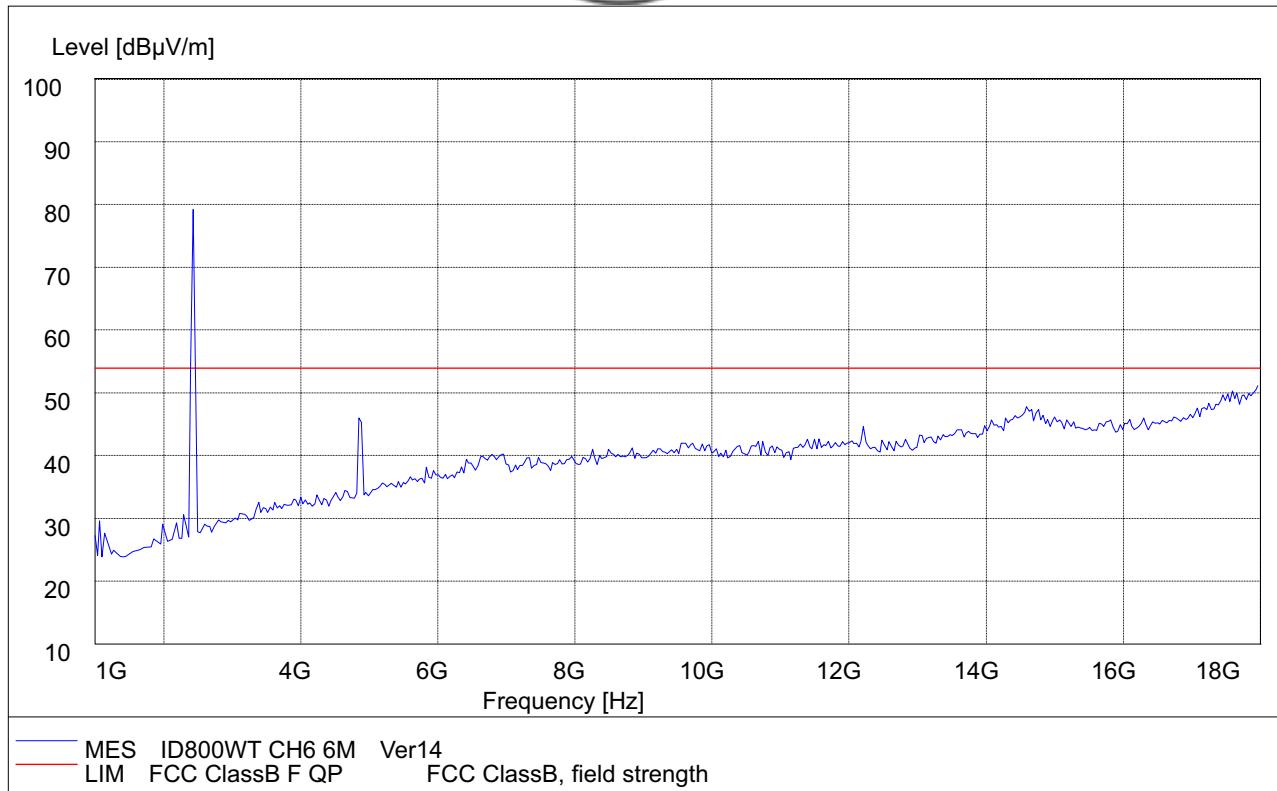
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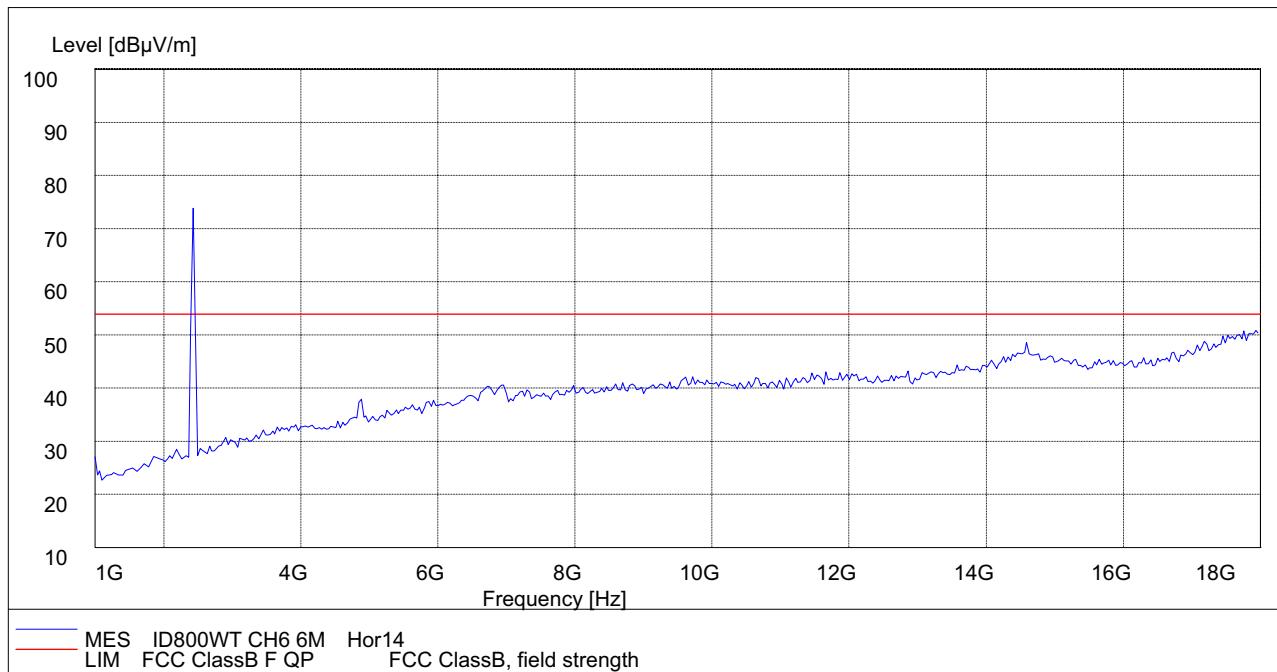
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CH06 at 6Mbps: Vertical



CH06 at 6Mbps: Horizontal



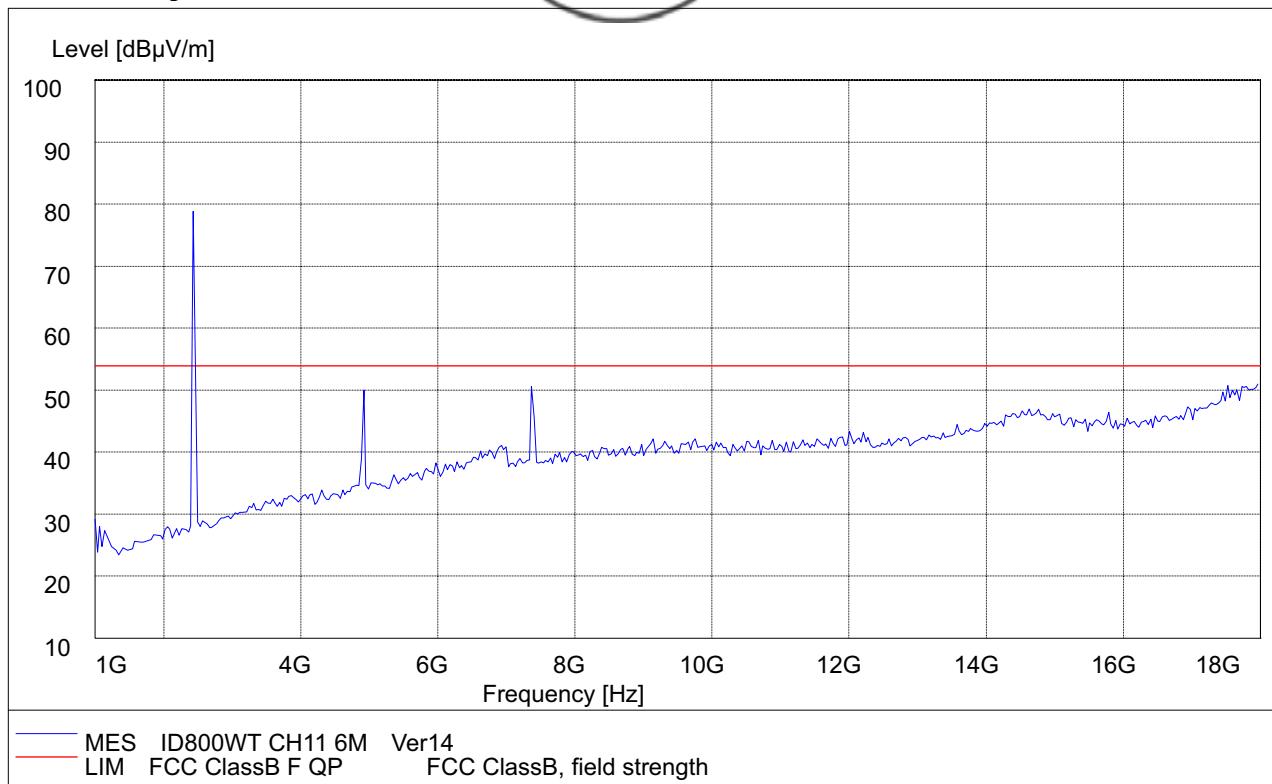
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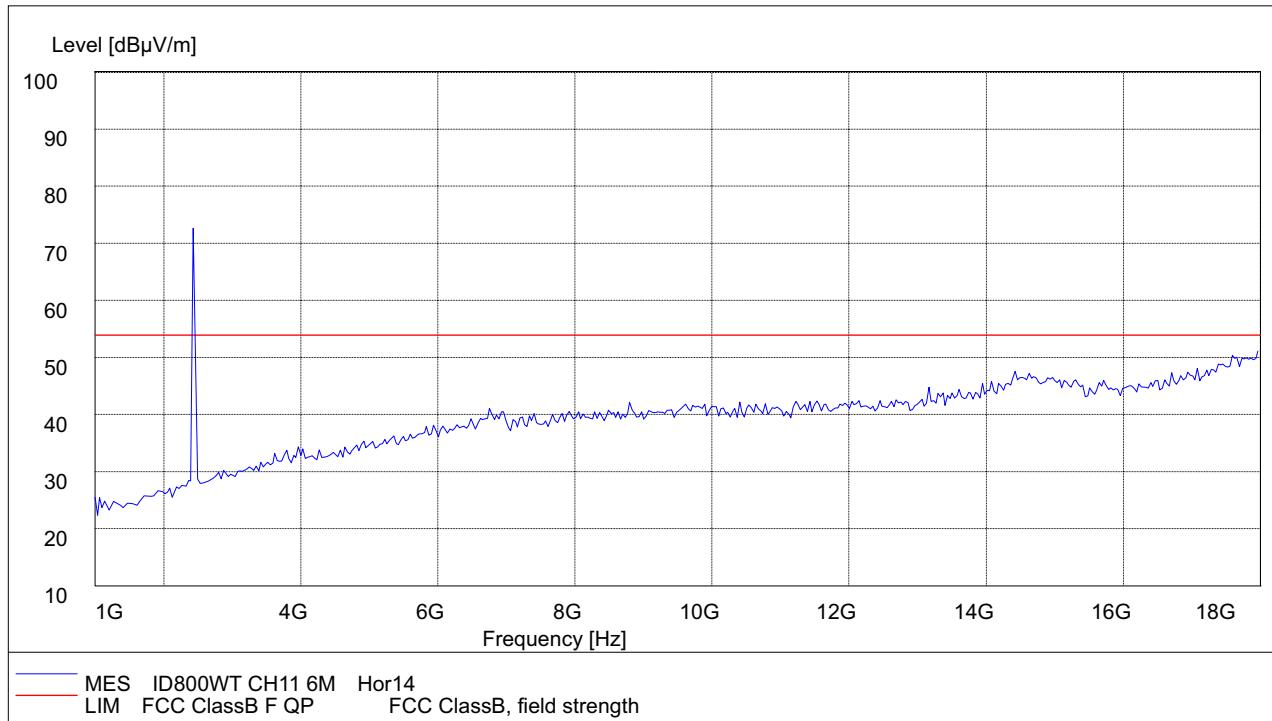
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CH11 at 6Mbps: Vertical



CH11 at 6Mbps: Horizontal



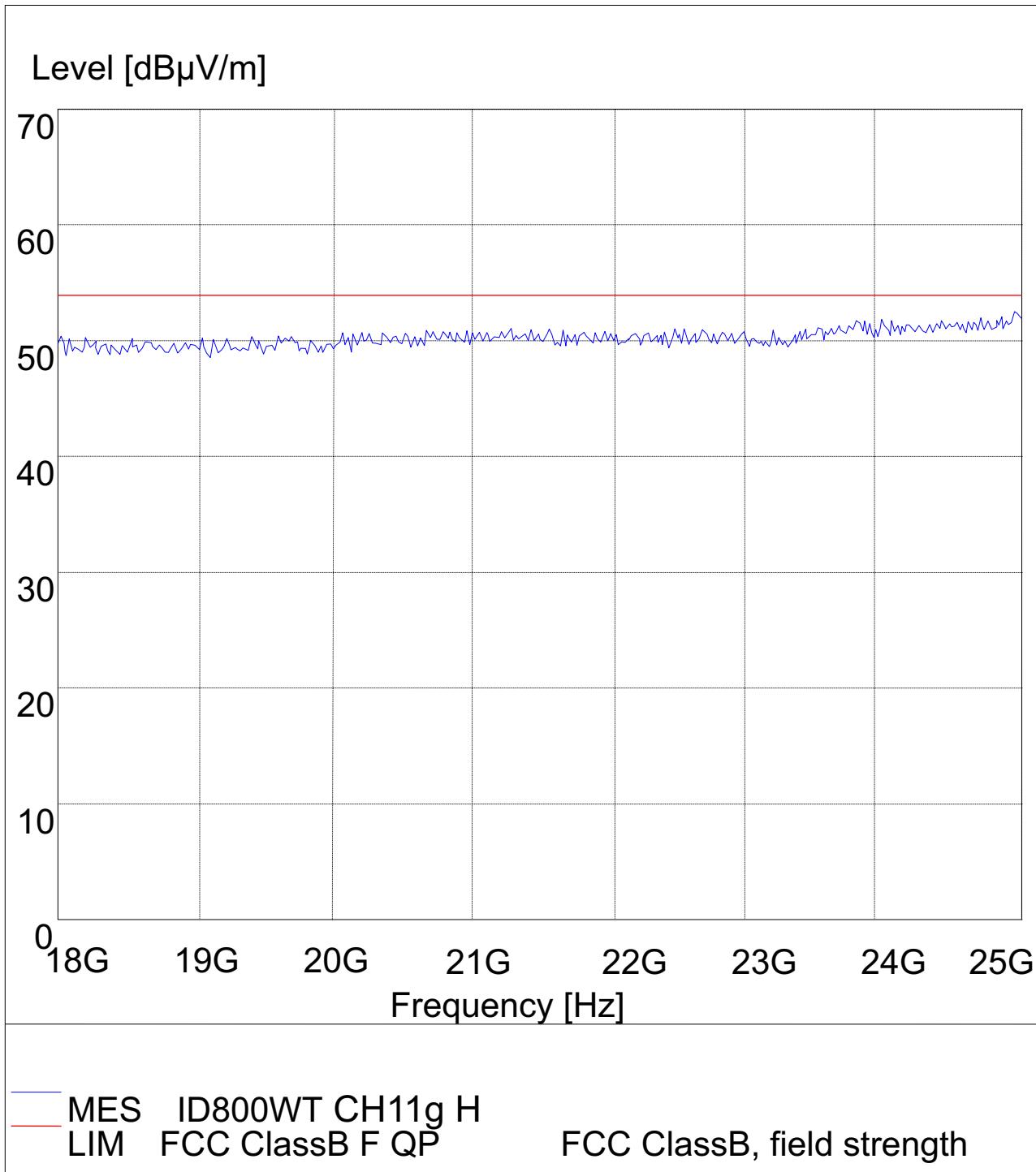
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18-25G
CH11 6M Horizontal



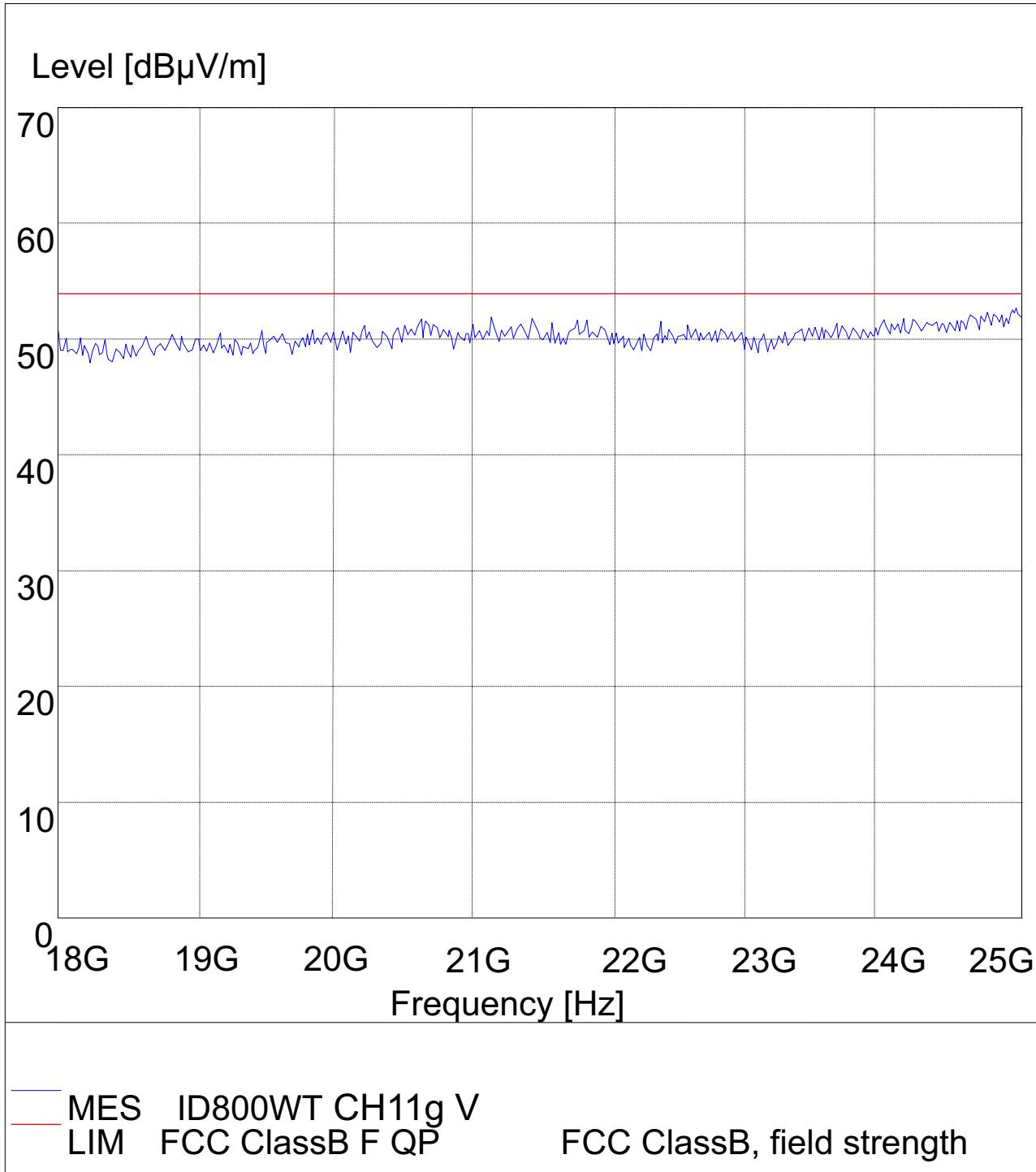
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18-25G
CH11 6M Vertical



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Operation Mode: Transmitting & Receiving under CH01 at 11Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	79.63 (PK)/ 74.68(AV)	H	Fundamental Frequency
2412.00	84.12 (PK)/79.71 (AV)	V	
4824.00	--	H /V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark “---” means that the emissions level is too low to be measured
3. For 802.11b mode 11Mbps

Operation Mode: Transmitting & Receiving under CH06 at 11Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	81.23 (PK)/ 78.50 (AV)	H	Fundamental Frequency
2437.00	85.25(PK)/ 80.56 (AV)	V	
4874.00	61.8 (Peak)/ 45.6 (AV)	V	74(Peak)/ 54(AV)
4874.00	--	H	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark “---” means that the emissions level is too low to be measured
3. For 802.11b mode 11Mbps

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Operation Mode: Transmitting & Receiving under CH11 at 11Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	82.72 (PK) /80.05(AV)	H	Fundamental Frequency
2462.00	89.57 (PK) /87.29 (AV)	V	
4924	60.7 (PK)/ 43.9 (AV)	V	74(Peak)/ 54(AV)
4924	53.2 (PK)/ 40.8 (AV)	H	74(Peak)/ 54(AV)
7368	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24650	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark “--” means that the emissions level is too low to be measured
3. For 802.11b mode at 11Mbps

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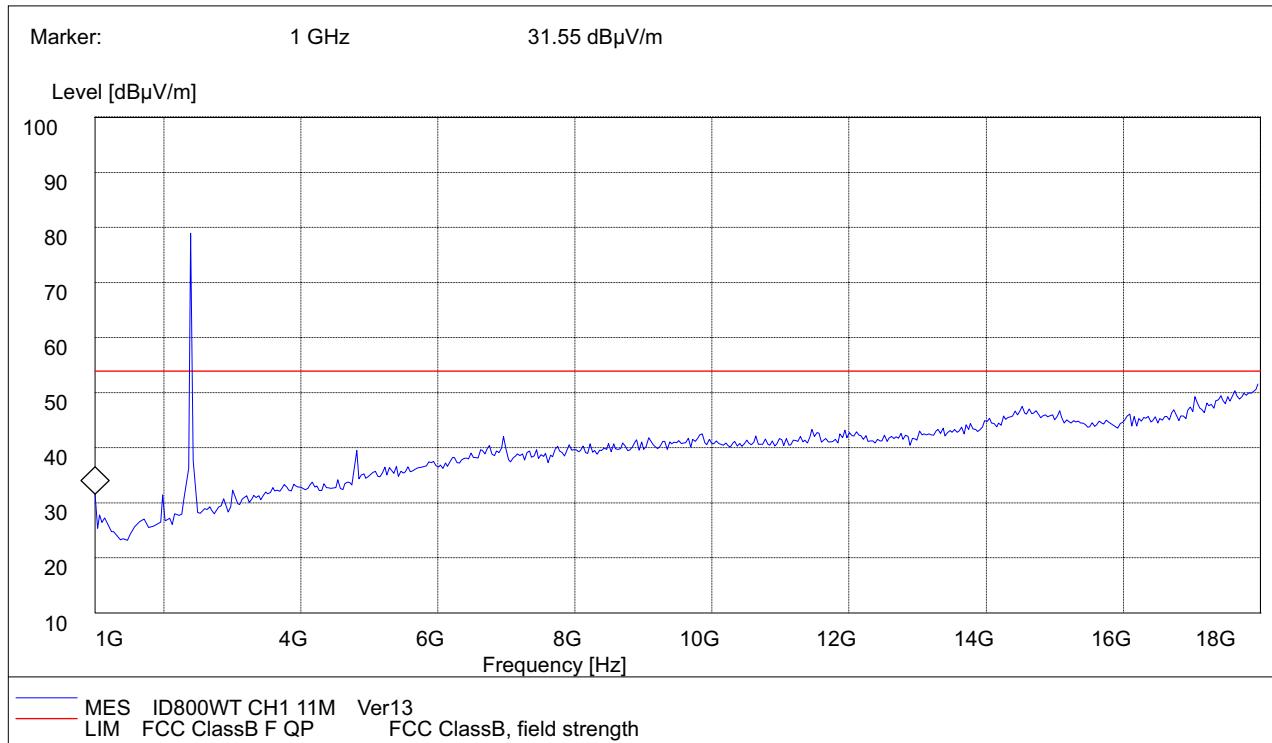
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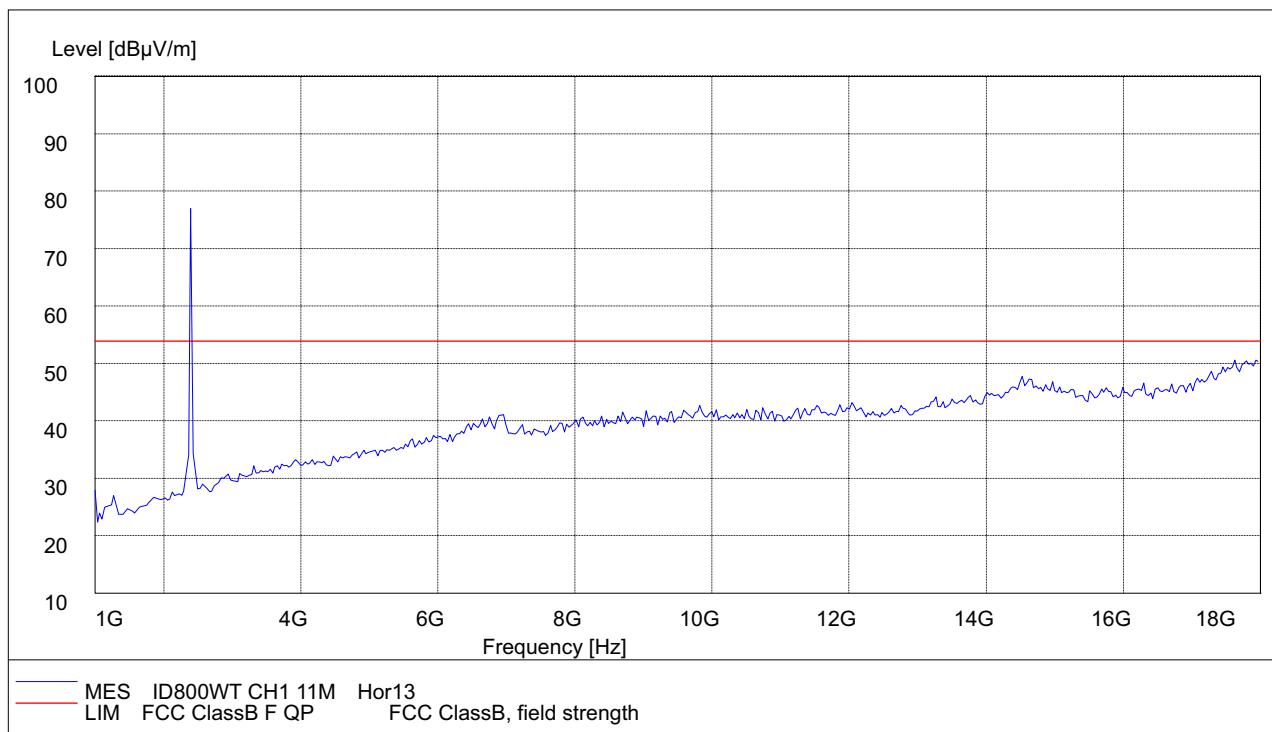


Please refer to the following test plots for details:

CH01 at 11Mbps: Vertical



CH01 at 11Mbps: Horizontal



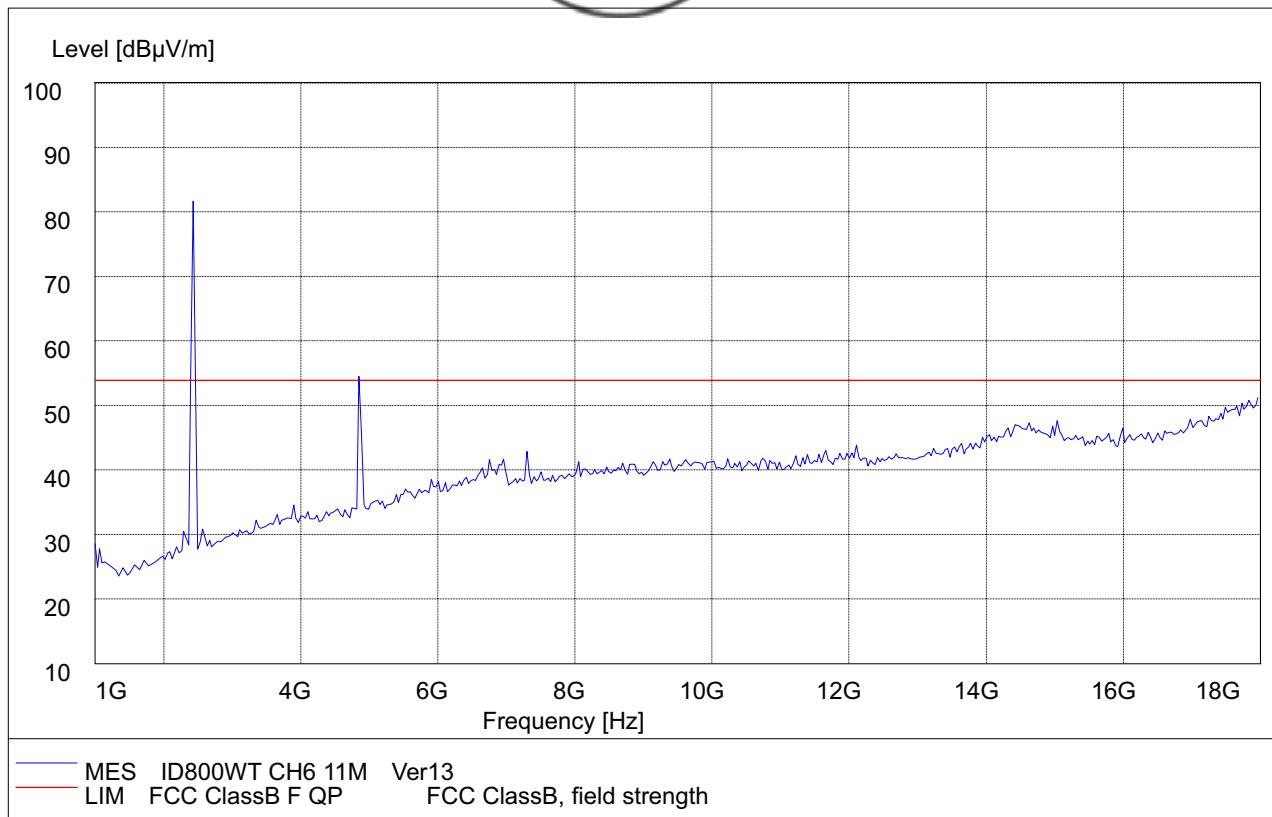
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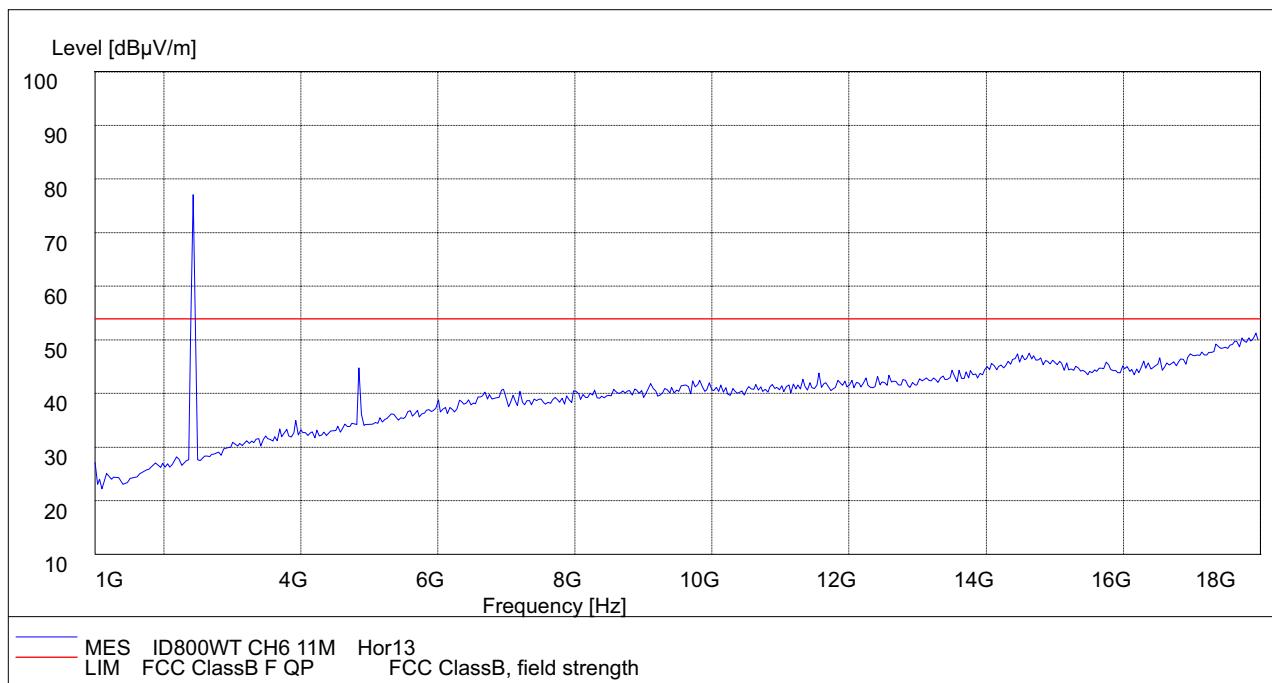
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CH06 at 11Mbps: Vertical



CH06 at 11Mbps: Horizontal



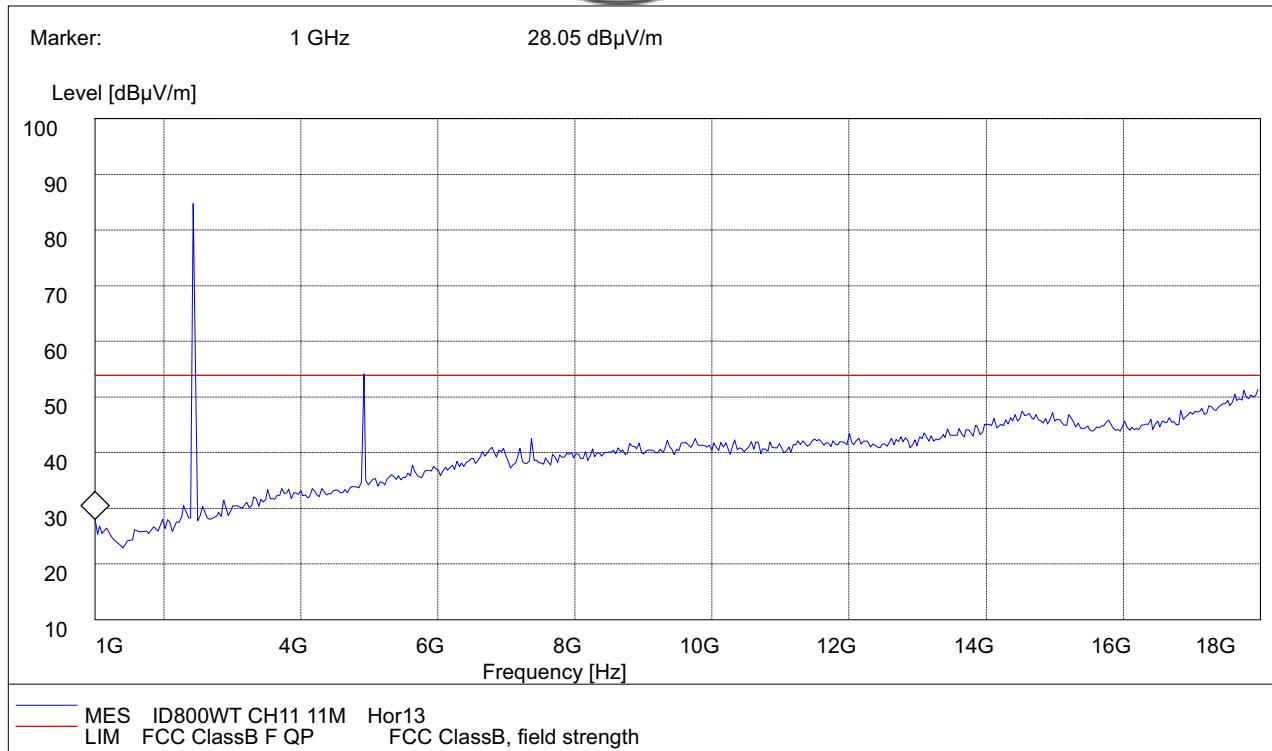
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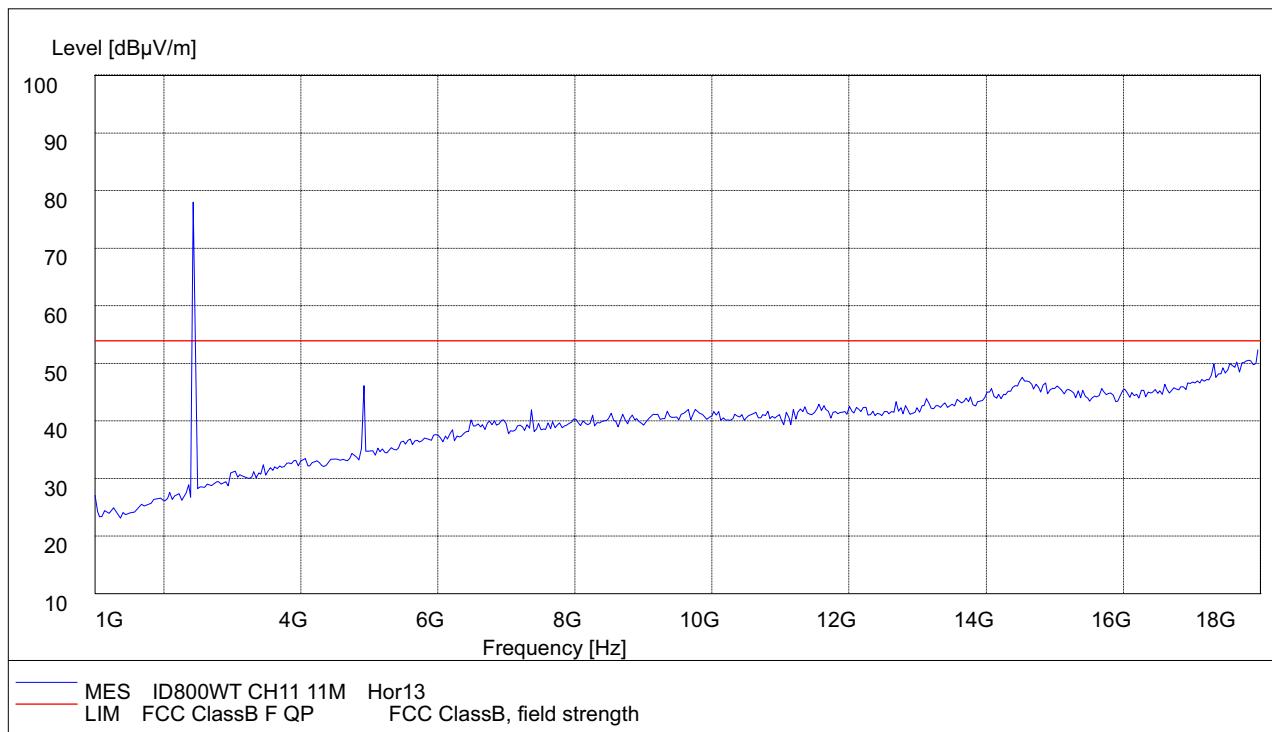
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CH11 at 11Mbps: Vertical



CH11 at 11Mbps: Horizontal



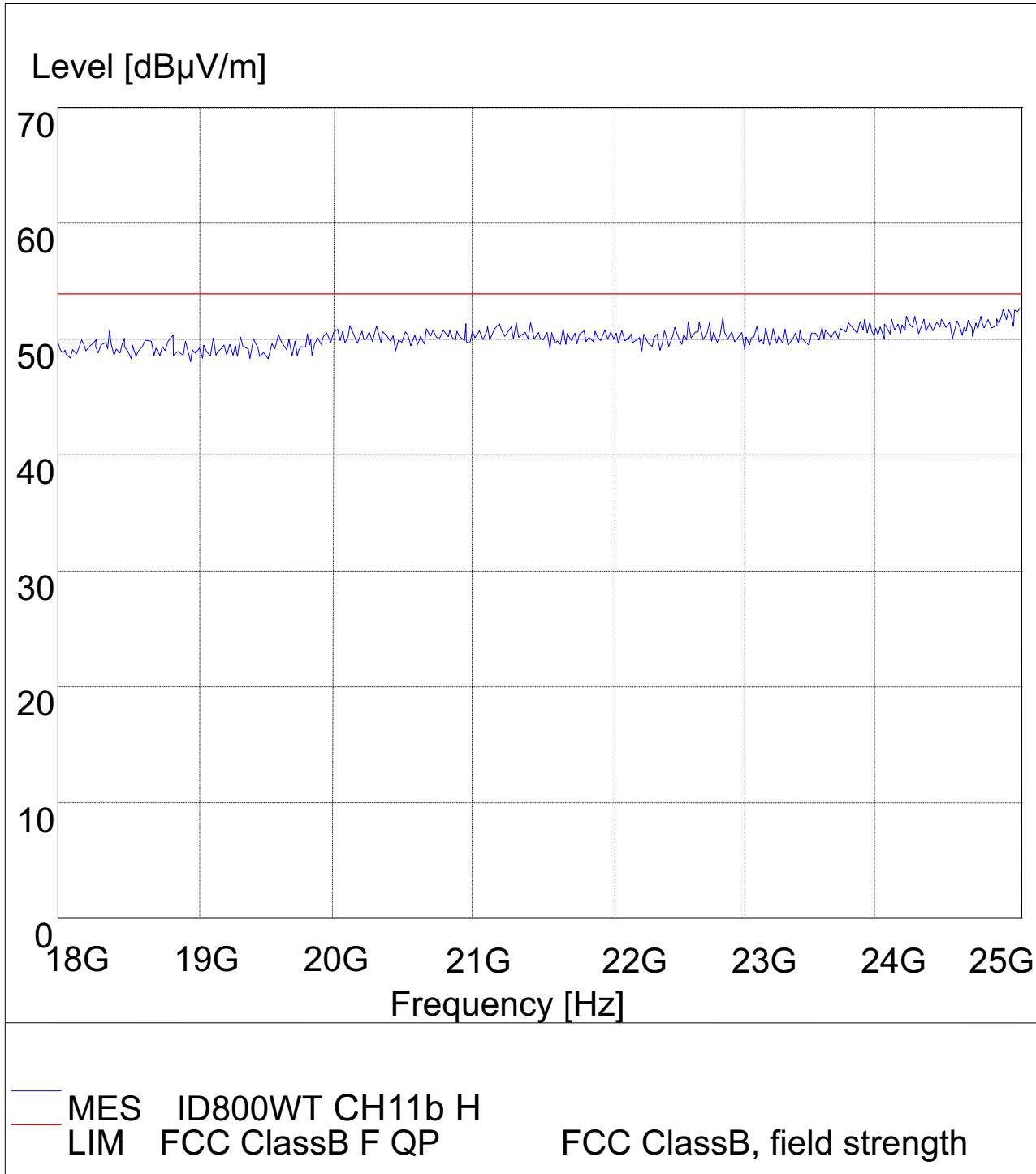
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18-25G
CH11 11M Horizontal



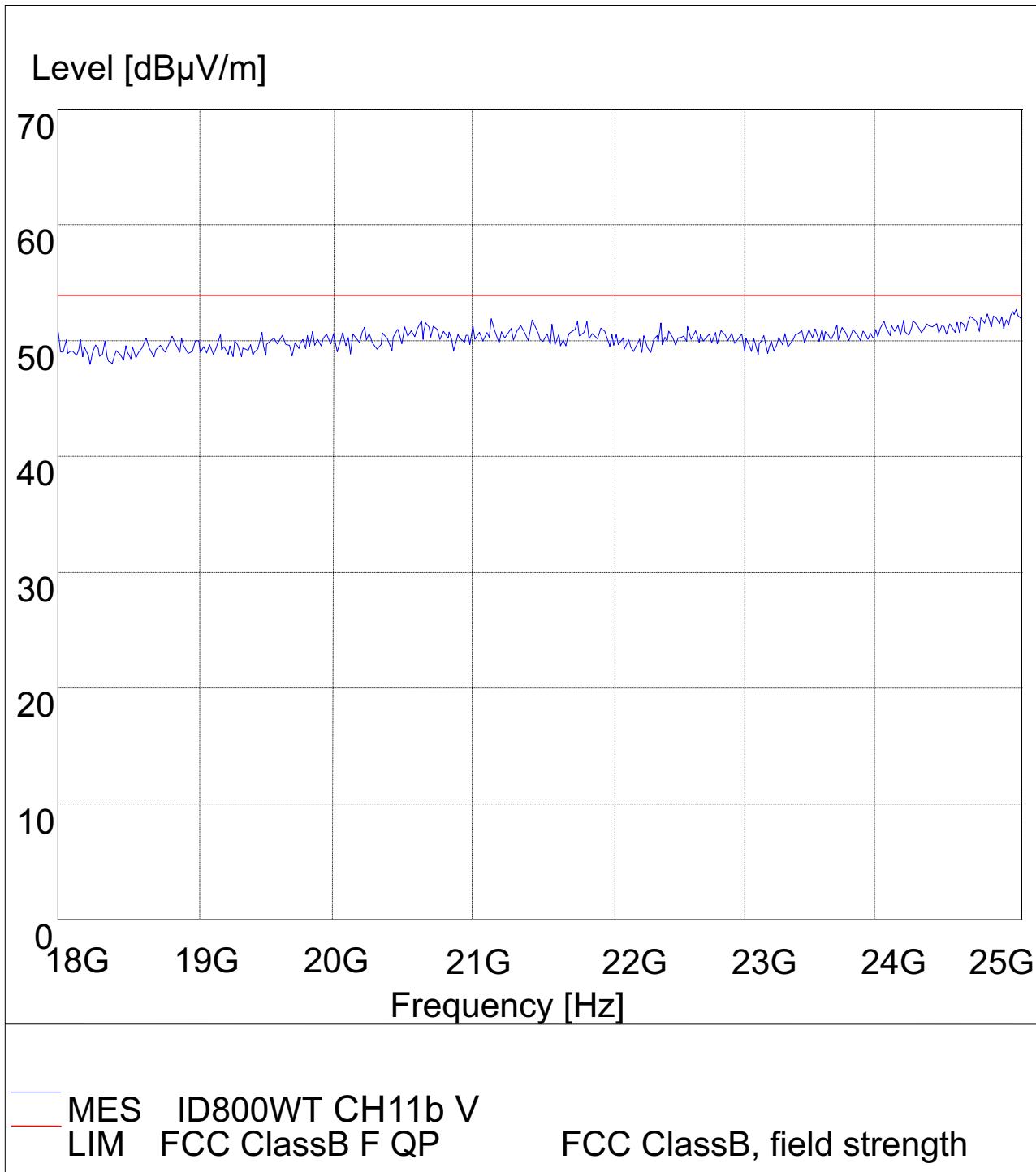
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18-25G
CH11 11M Vertical



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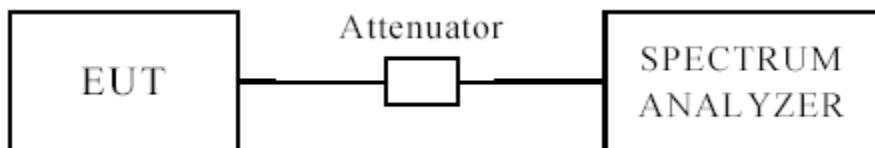
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator.

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4 Test Result

EUT		Digital photo frame		Model		ID800WT
Mode		802.11b		Input Voltage		120V~
Temperature		24 deg. C,		Humidity		56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/Fail	
1	2412	1	9.48	0.5	Pass	
		11	5.20			
6	2437	1	8.28	0.5	Pass	
		11	6.72			
11	2462	1	8.96	0.5	Pass	
		11	7.44			

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

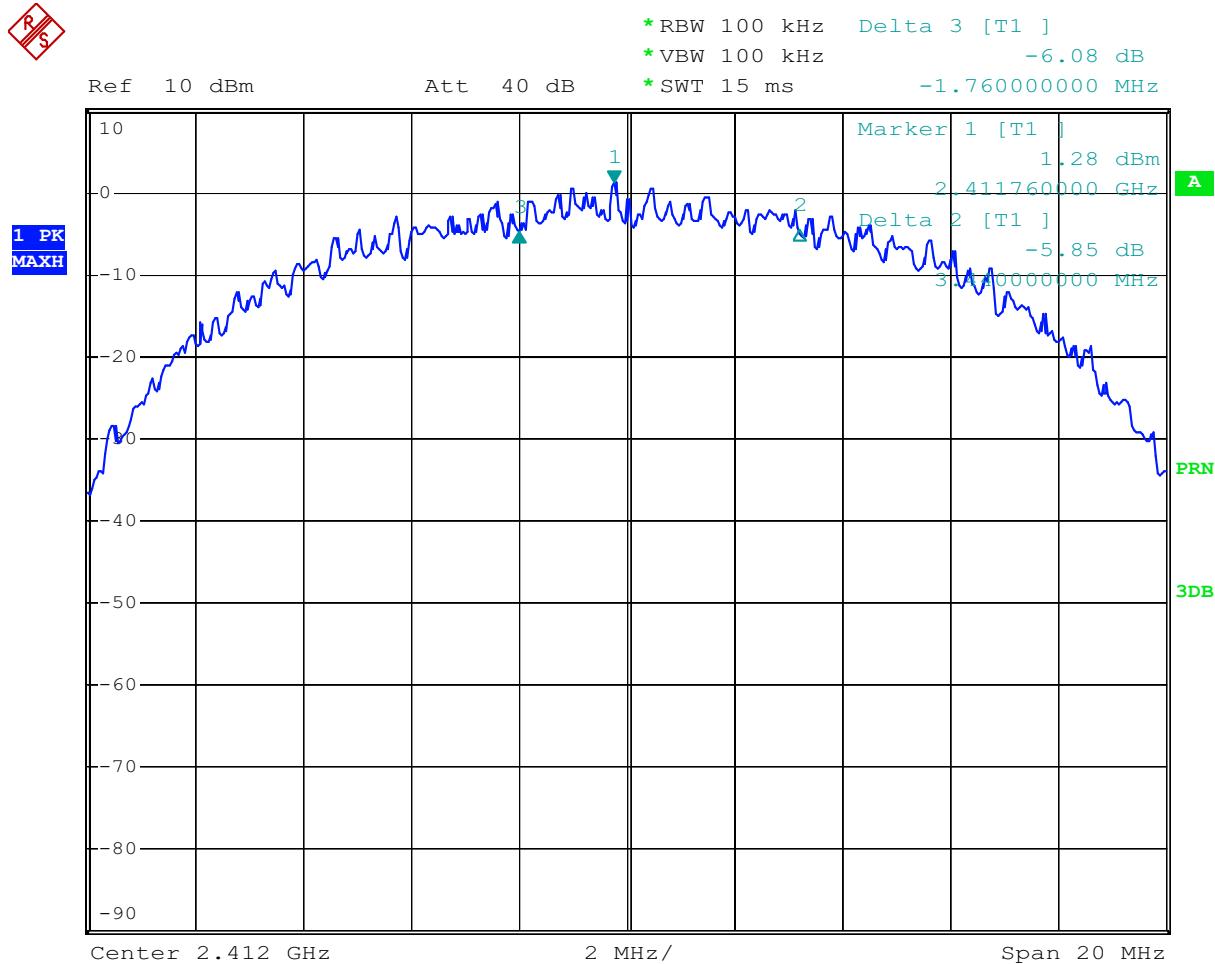
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Test Figure:

1. Condition: 802.11b at 11Mbps of CH01



Date: 7.AUG.2009 18:47:19

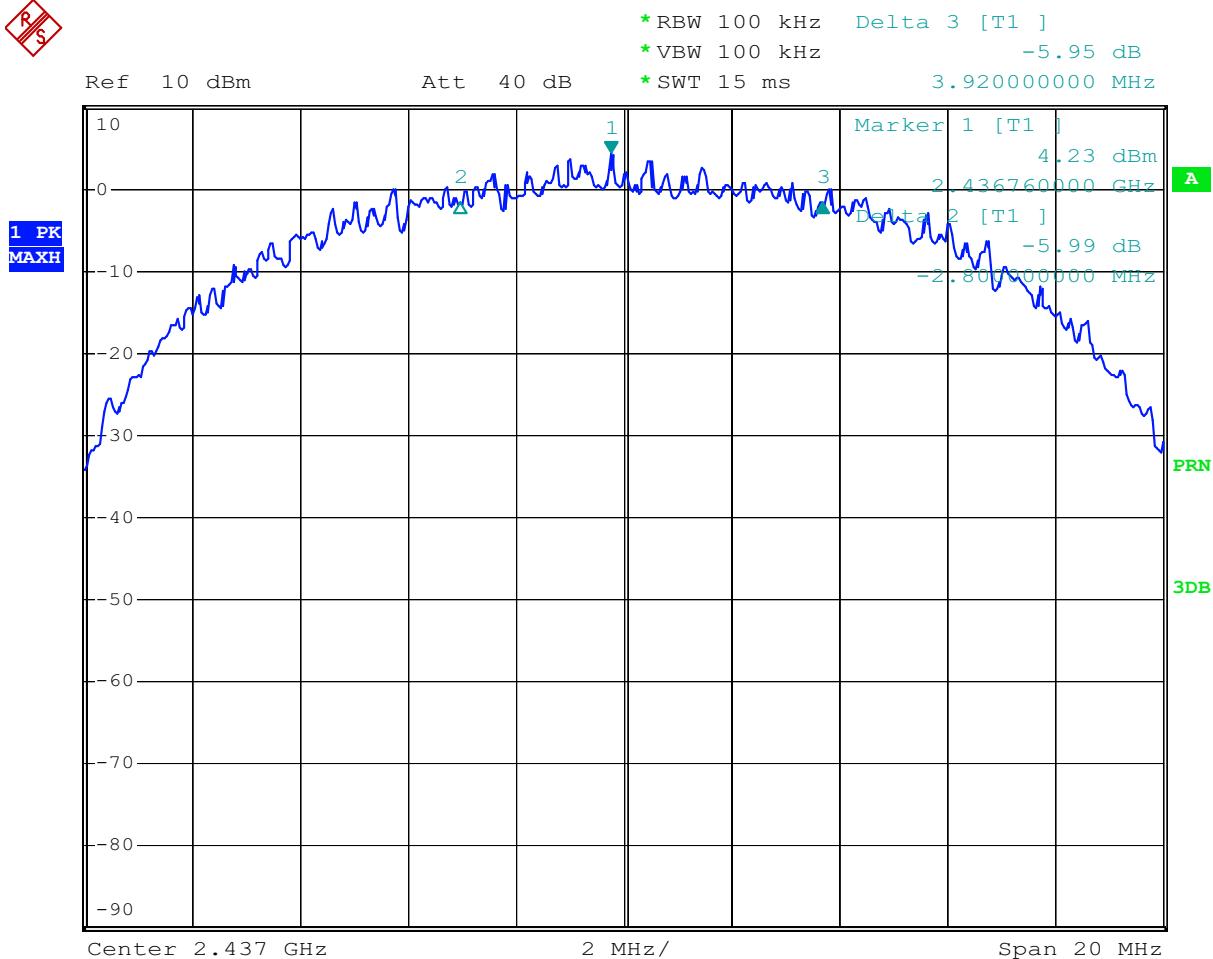
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2. Condition: 802.11b at 11Mbps of CH06



Date: 7.AUG.2009 18:45:51

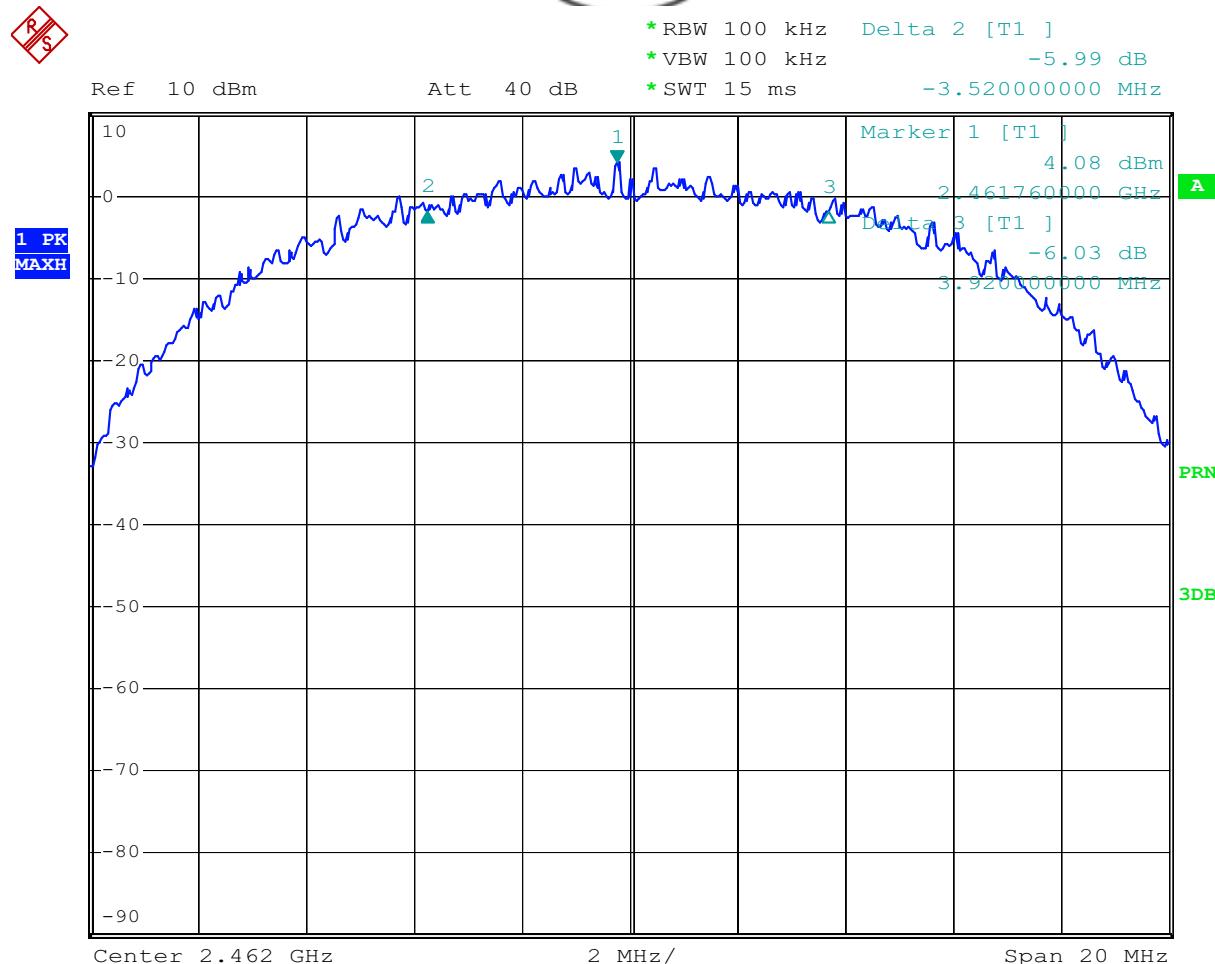
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3. 802.11b at 11Mbps of CH11



Date: 7.AUG.2009 18:44:19

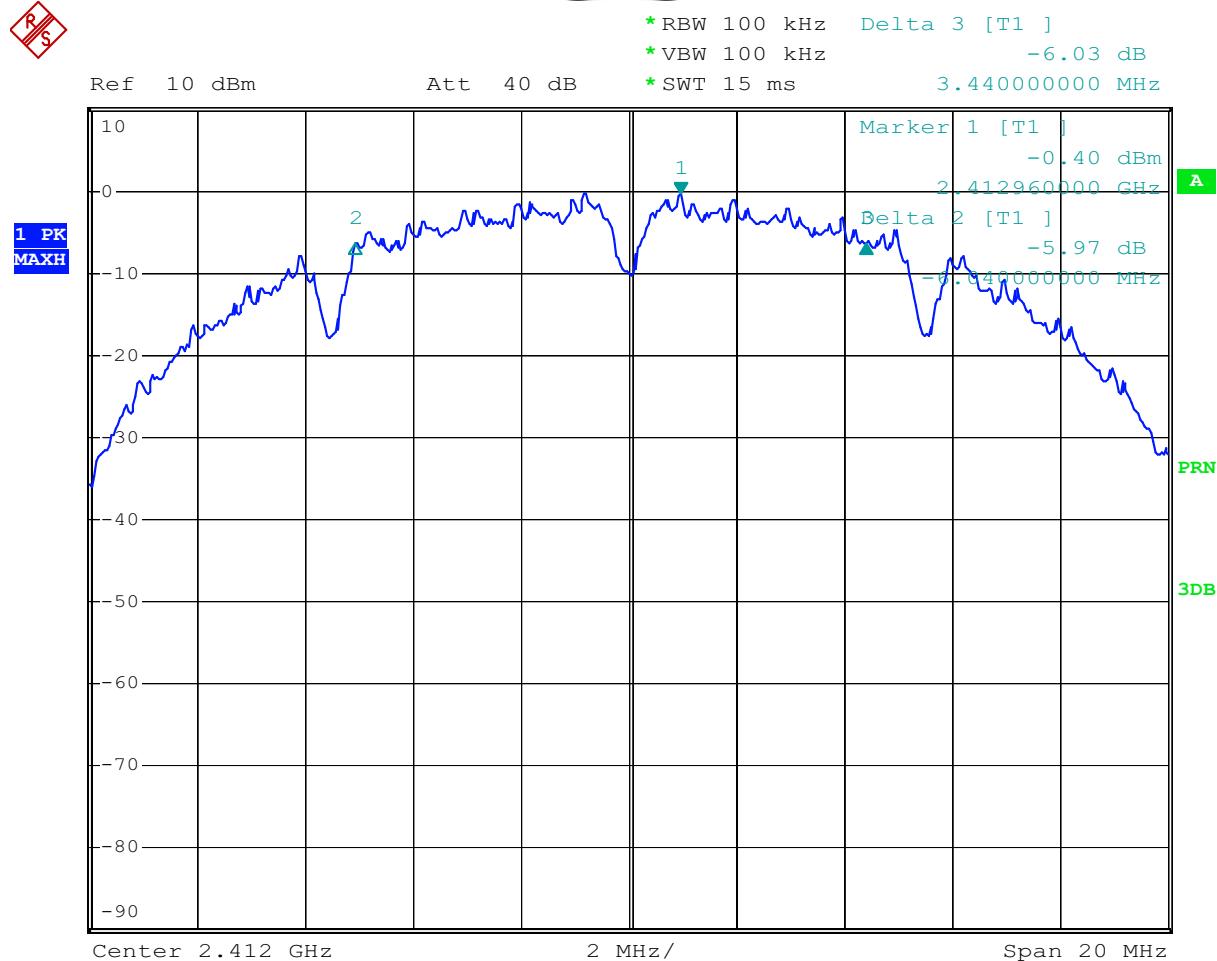
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4. 802.11b at 1Mbps of CH01



Date: 7.AUG.2009 18:37:46

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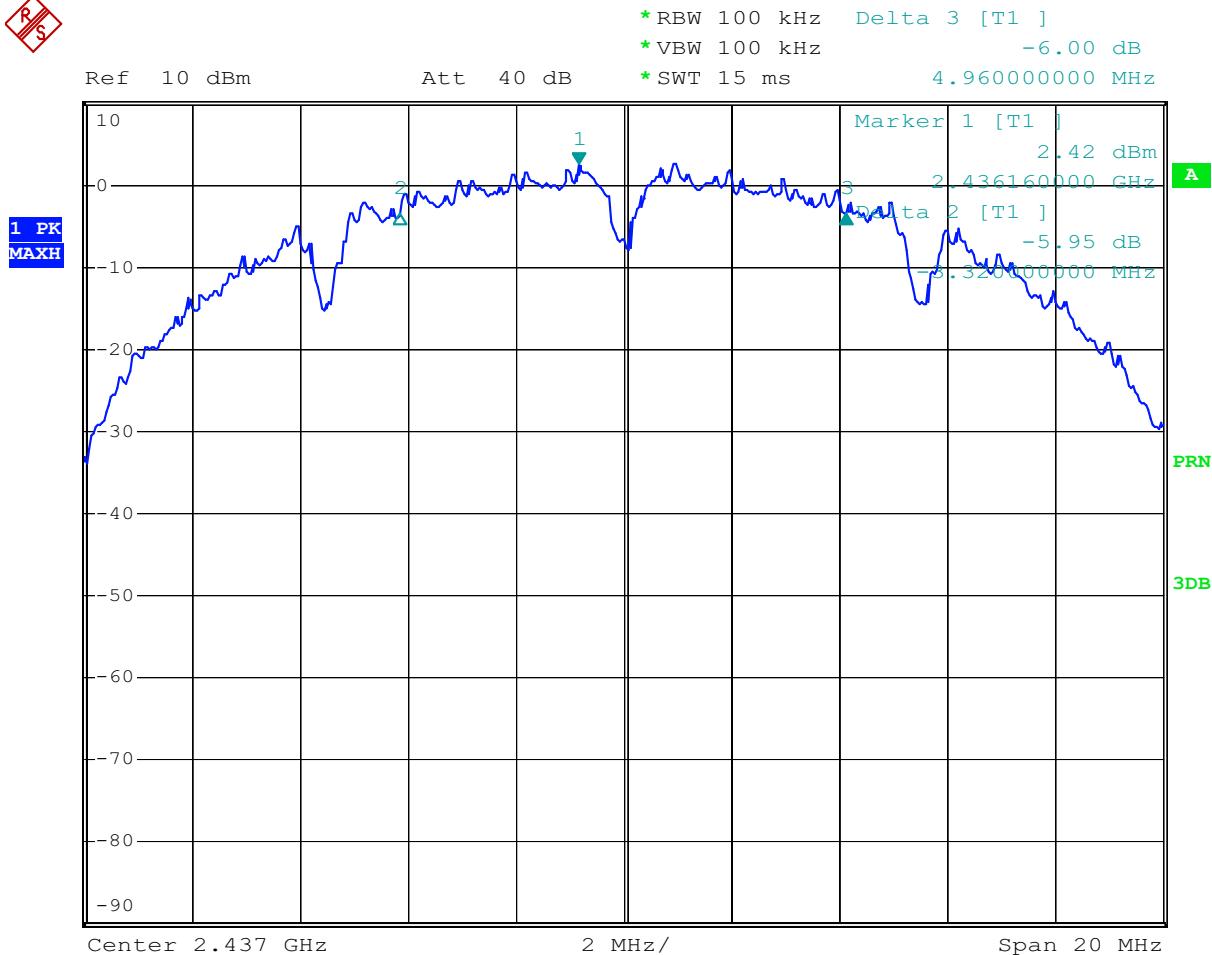
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5. 802.11b at 1Mbps of CH06

RS



Date: 7.AUG.2009 18:39:53

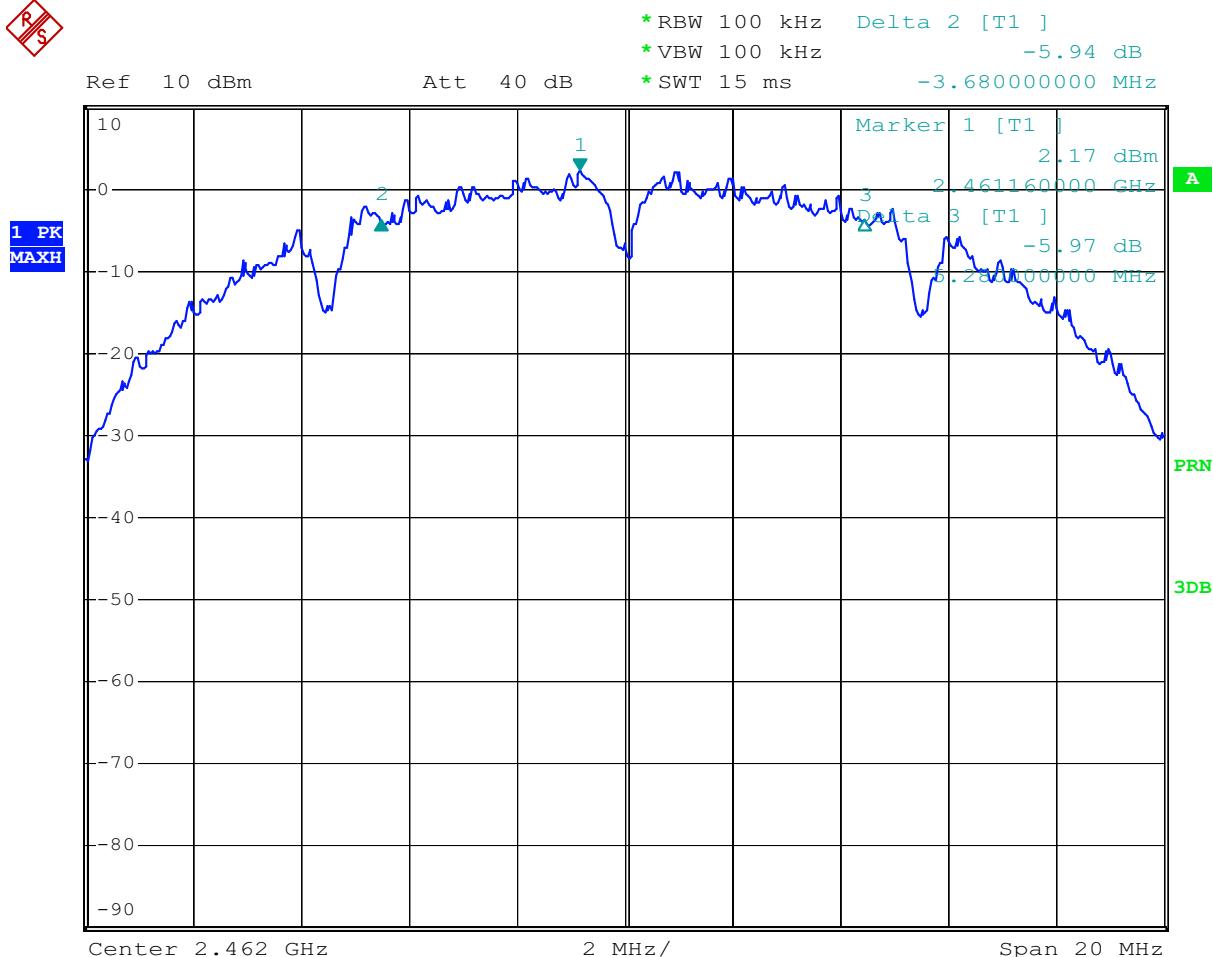
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6. 802.11b at 1Mbps of CH11



Date: 7.AUG.2009 18:42:22

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EUT		Digital photo frame		Model	ID800WT	
Mode		802.11b		Input Voltage	120V~	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)		Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/Fail
1	2412		6	16.60	0.5	Pass
			54	16.48		
6	2437		6	16.56	0.5	Pass
			54	16.56		
11	2462		6	16.60	0.5	Pass
			54	16.52		

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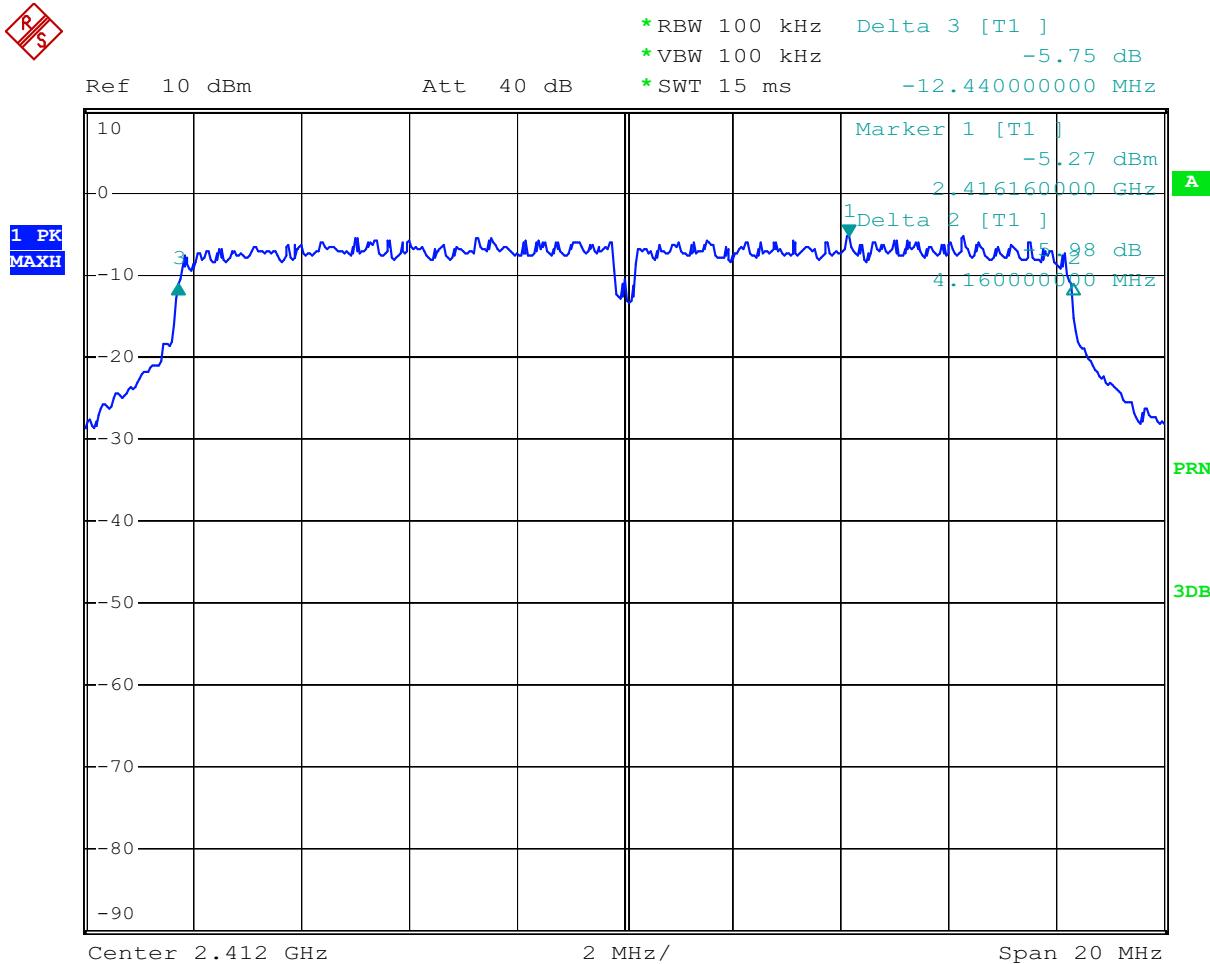
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Test Plots:

1. 802.11g at 6Mbps of CH01



Date: 7.AUG.2009 18:49:37

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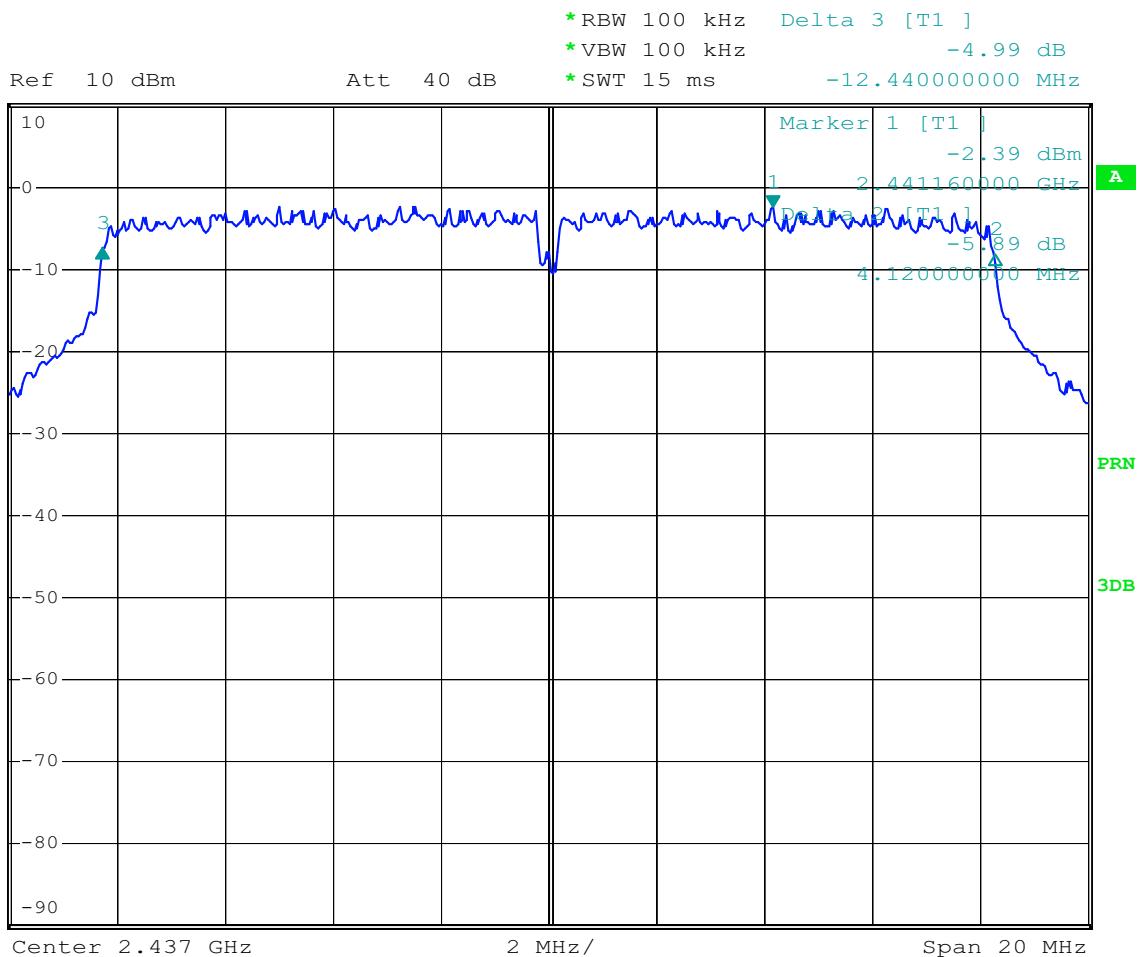
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2. 802.11g at 6Mbps of CH06

RS



Date: 7.AUG.2009 18:51:01

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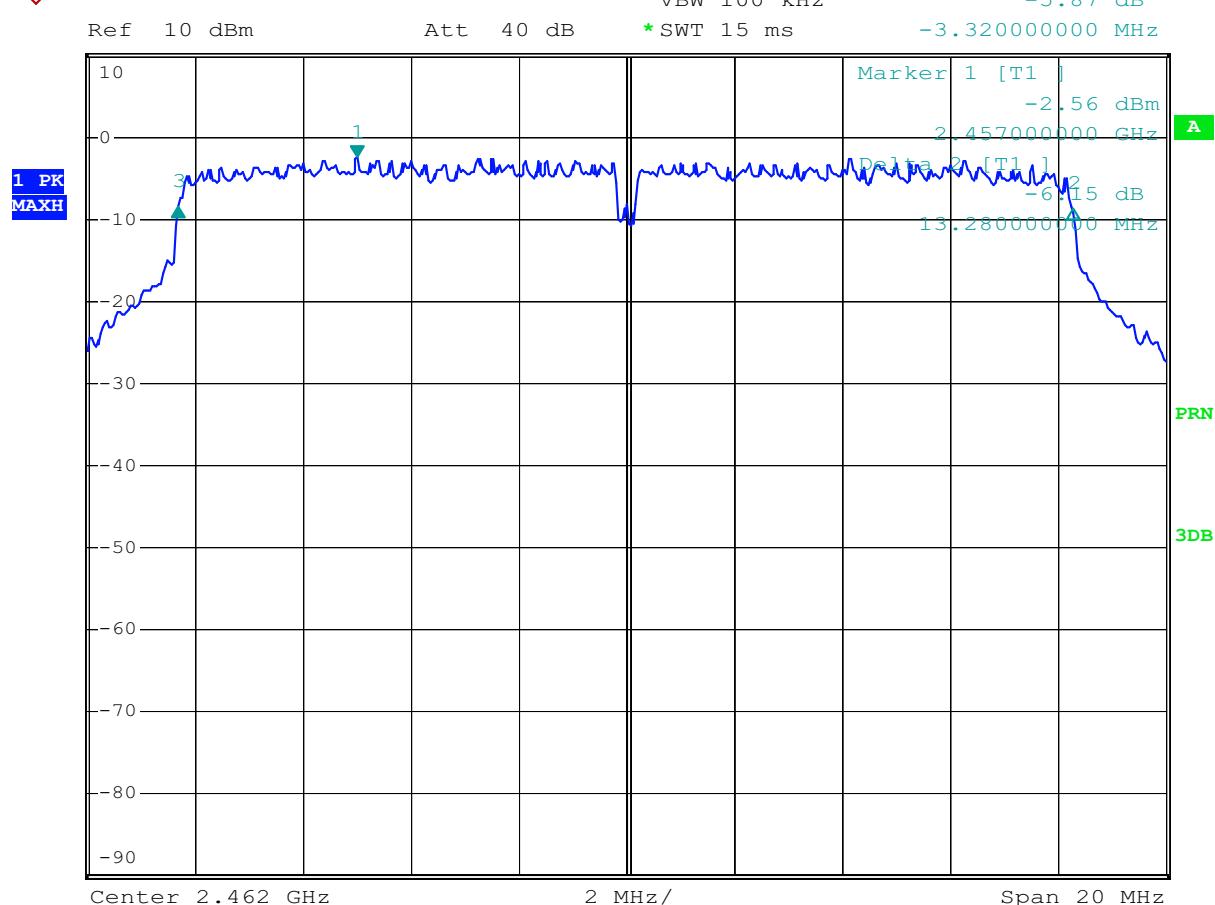
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3. 802.11g at 6Mbps of CH11

RS



Date: 7.AUG.2009 18:53:22

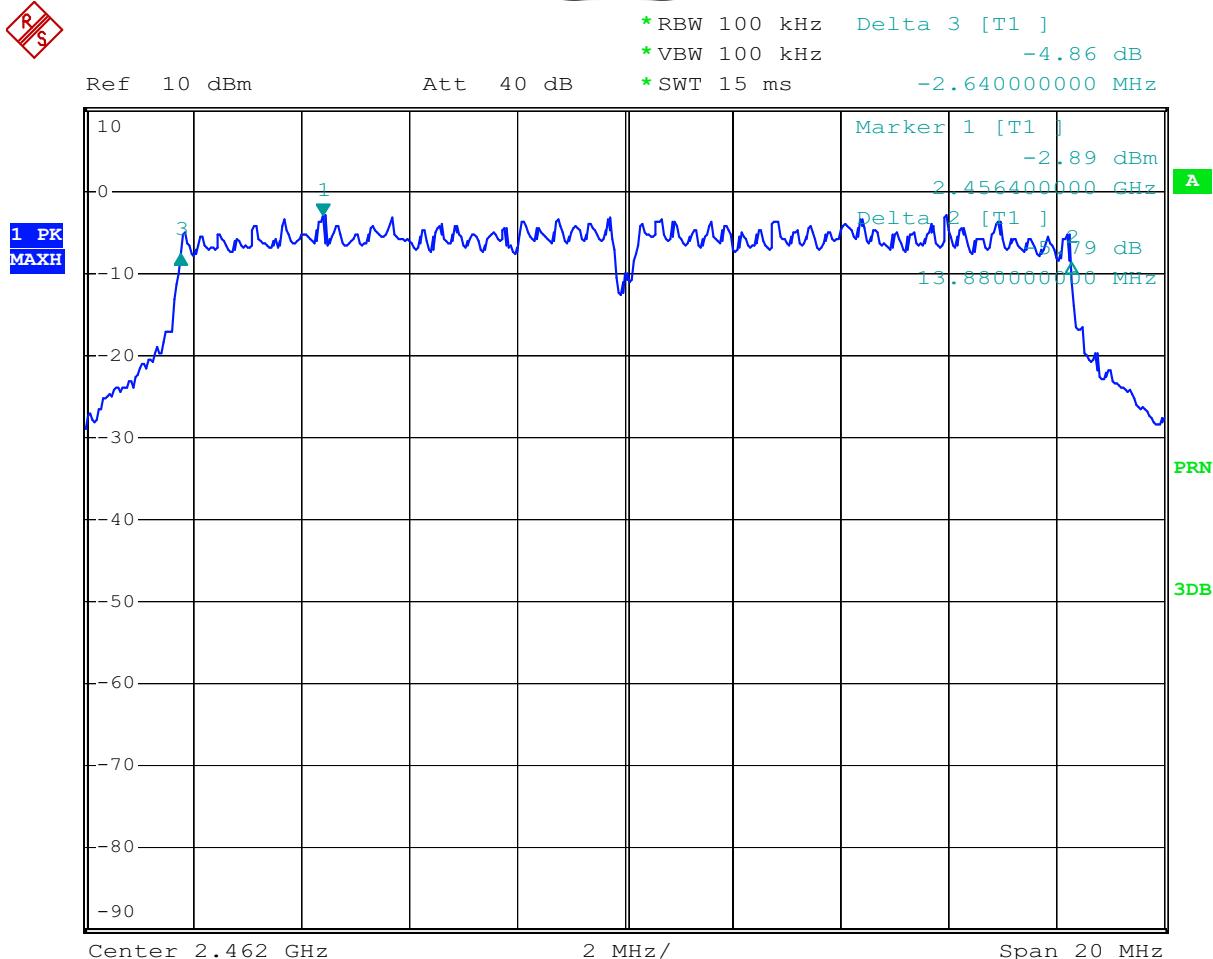
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4. 802.11g at 54Mbps of CH11



Date: 7.AUG.2009 18:55:26

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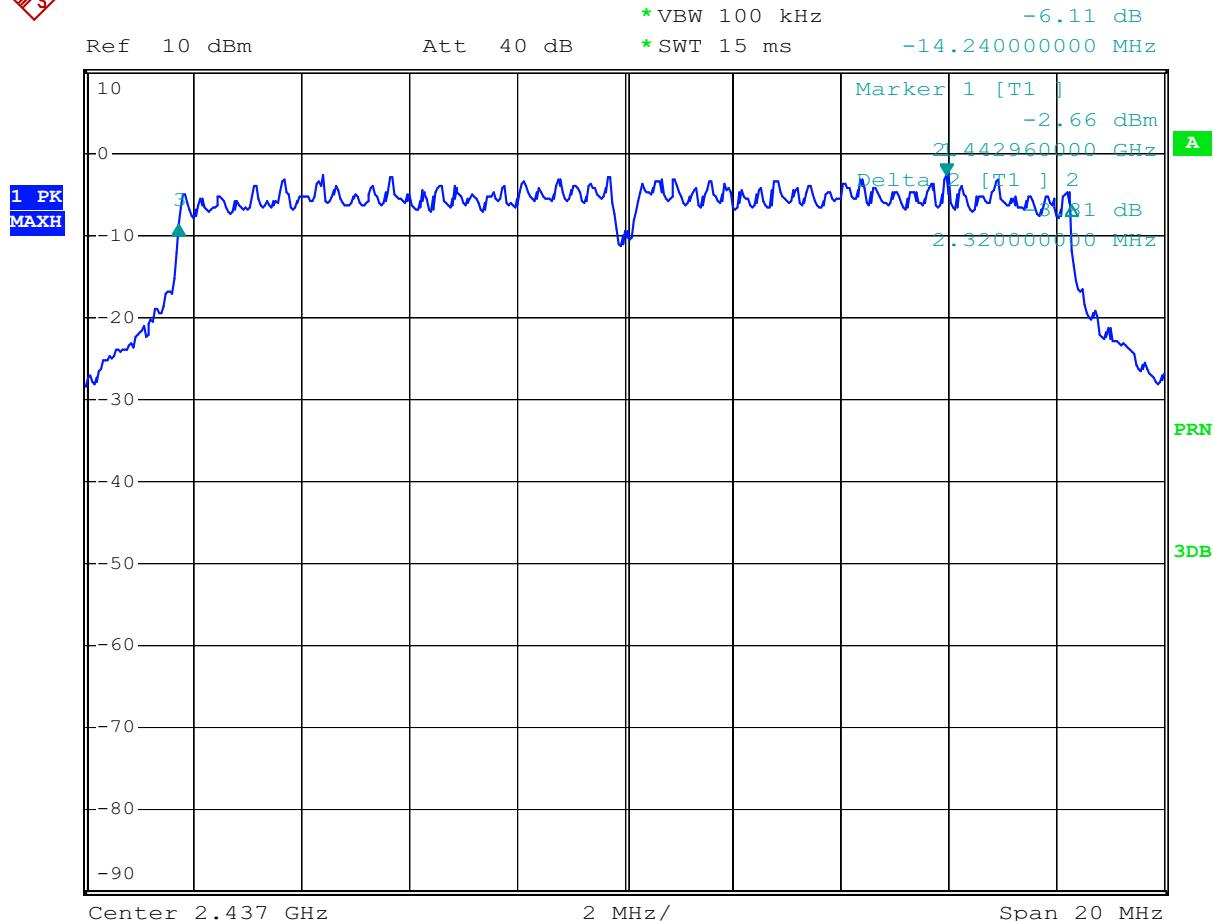
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5. 802.11g at 54Mbps of CH06

RS



Date: 7.AUG.2009 19:02:01

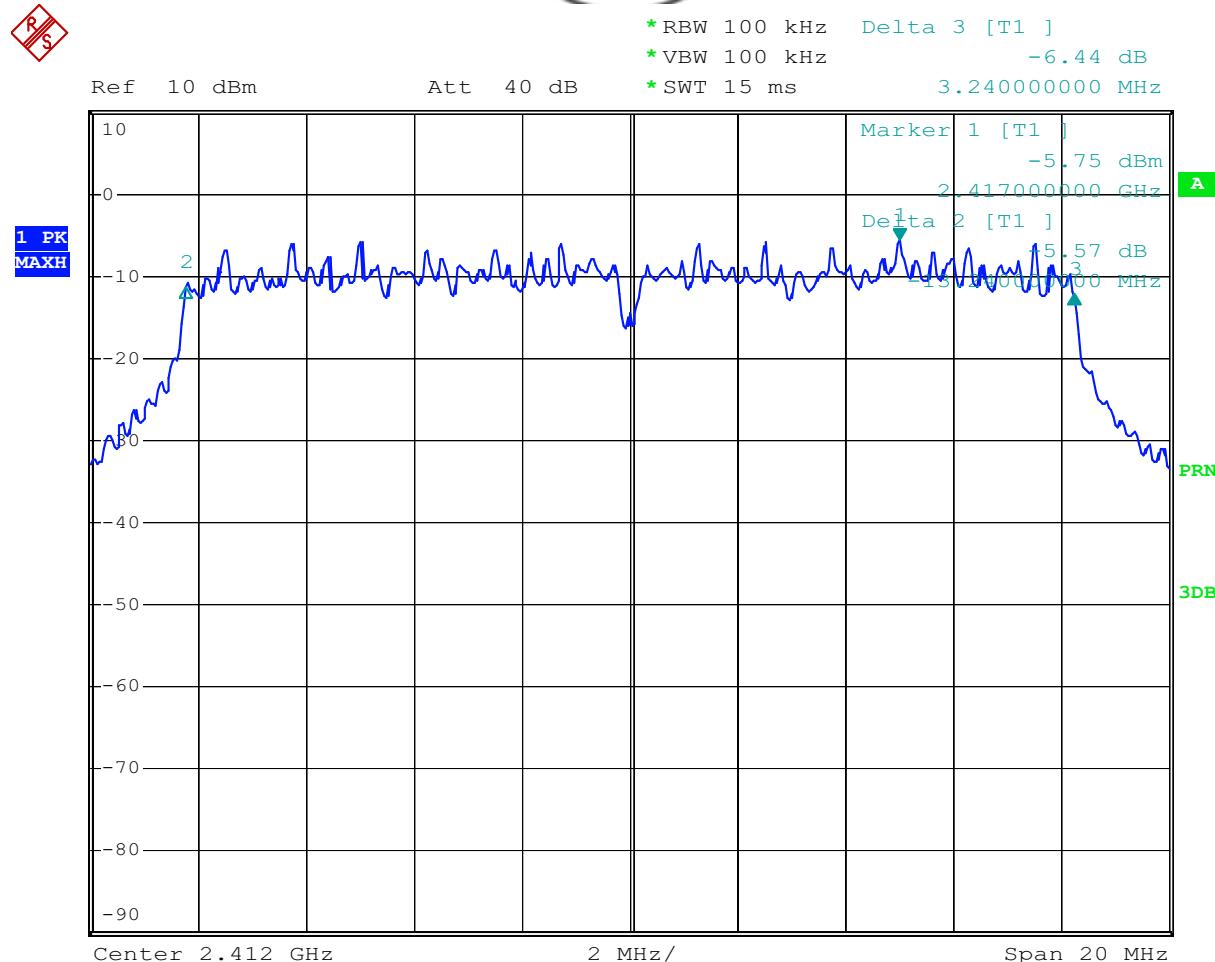
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6. 802.11g at 54Mbps of CH01



Date: 7.AUG.2009 19:08:27

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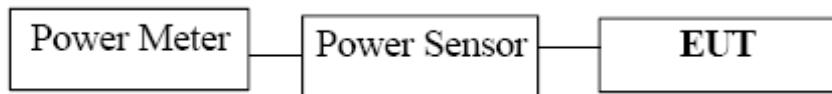
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8. Maximum Peak Output Power

8.1 Test Setup



8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

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8.4 Test Results

EUT		Digital photo frame		Model	ID800WT
Mode		802.11g		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)
1	2412		7.15		30
6	2437		10.92		30
11	2462		10.50		30

Note: 1. At final test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

EUT		Digital photo frame		Model	ID800WT
Mode		802.11g		Input Voltage	Please see following
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Voltage	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	Vmax	138V	7.12	30
		Vmin	102V	7.21	30
6	2437	Vmax	138V	10.82	30
		Vmin	102V	11.01	30
11	2462	Vmax	138V	10.56	30
		Vmin	102V	10.45	30

Note: 1. At final test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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EUT		Digital photo frame		Model	ID800WT
Mode		802.11b		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)
1	2412		13.76		30
6	2437		16.51		30
11	2462		16.12		30

Note: 1. At finial test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

EUT		Digital photo frame		Model	ID800WT
Mode		802.11g		Input Voltage	Please see following
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Voltage	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	Vmax	138V	13.91	30
		Vmin	102V	13.47	30
6	2437	Vmax	138V	16.78	30
		Vmin	102V	16.32	30
11	2462	Vmax	138V	16.09	30
		Vmin	102V	15.69	30

Note: 1. At finial test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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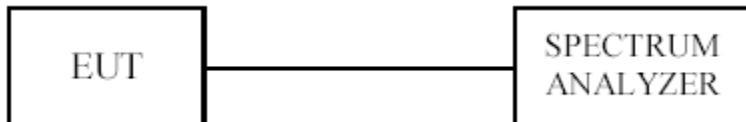
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3KHz RBW and 10kHz VBW, set sweep time=500s, **PK detector used**

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.

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9.4 Test Result

EUT		Digital photo frame	Model	ID800WT
Mode		802.11b	Input Voltage	120V~
Temperature		24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
1	2412	-13.65	8	Pass
6	2437	-9.95	8	Pass
11	2462	-10.13	8	Pass

Note: For 802.11b mode at final test to get the worst-case emission at 1Mbps for CH01, CH06 and CH11

EUT		Digital photo frame	Model	ID800WT
Mode		802.11g	Input Voltage	120V~
Temperature		24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
1	2412	-18.32	8	Pass
6	2437	-13.00	8	Pass
11	2462	-13.98	8	Pass

Note: For 802.11g mode at final test to get the worst-case emission at 6Mbps

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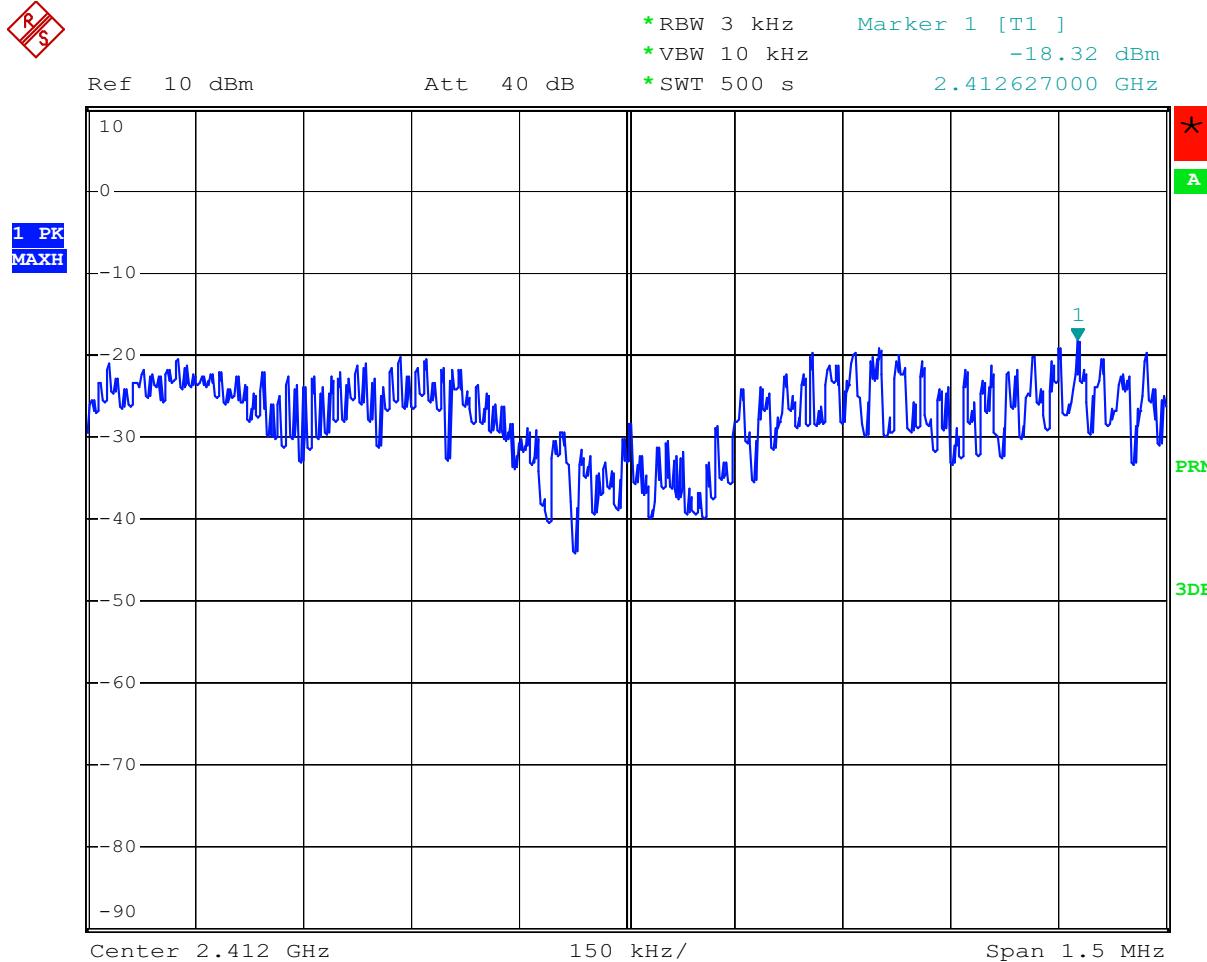
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9.5 Photo of Power Spectral Density Measurement

1.802.11g at 6Mbps of CH01



Date: 7.AUG.2009 19:10:49

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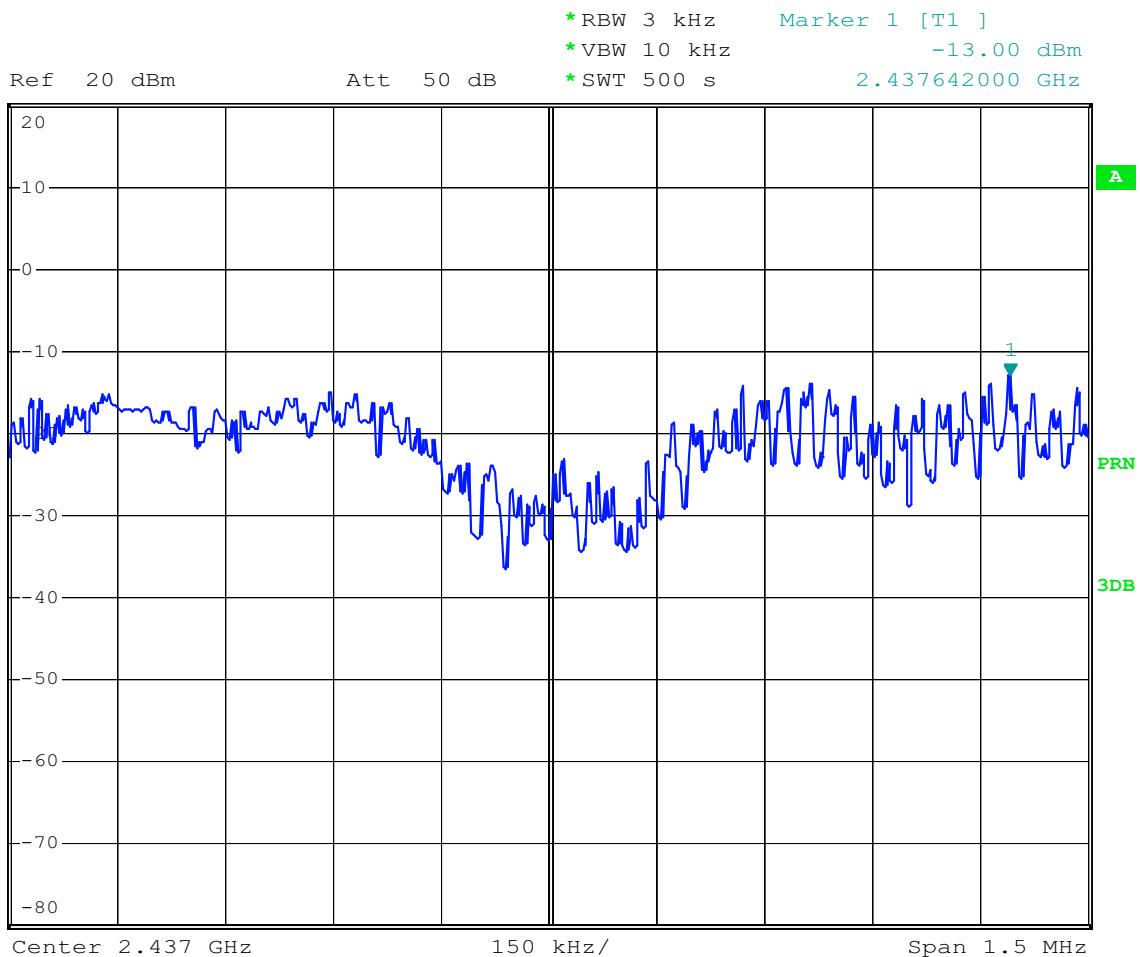
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2. 802.11g at 6Mbps at CH06

RS



Date: 7.AUG.2009 20:35:21

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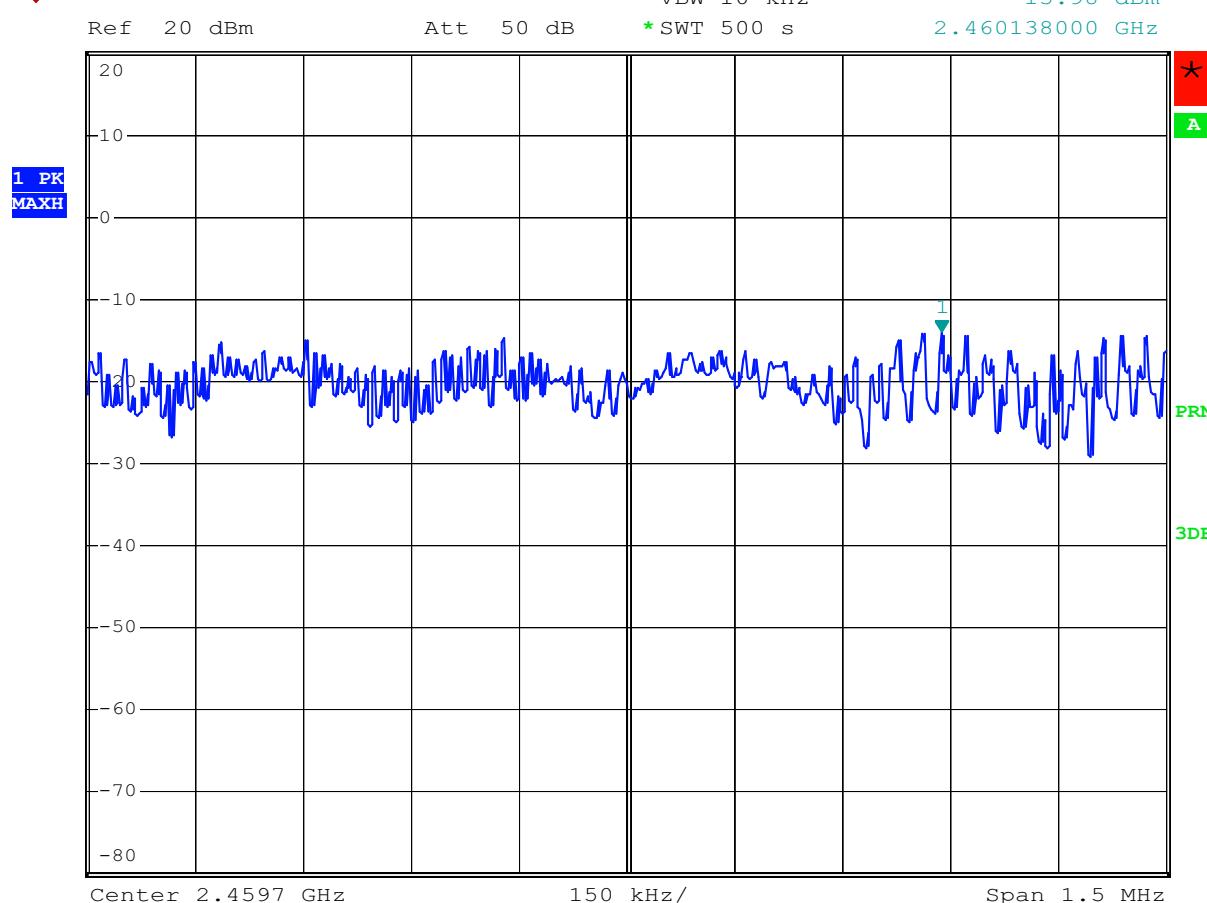
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3. 802.11g at 6Mbps of CH11

RS



Date: 7.AUG.2009 20:16:54

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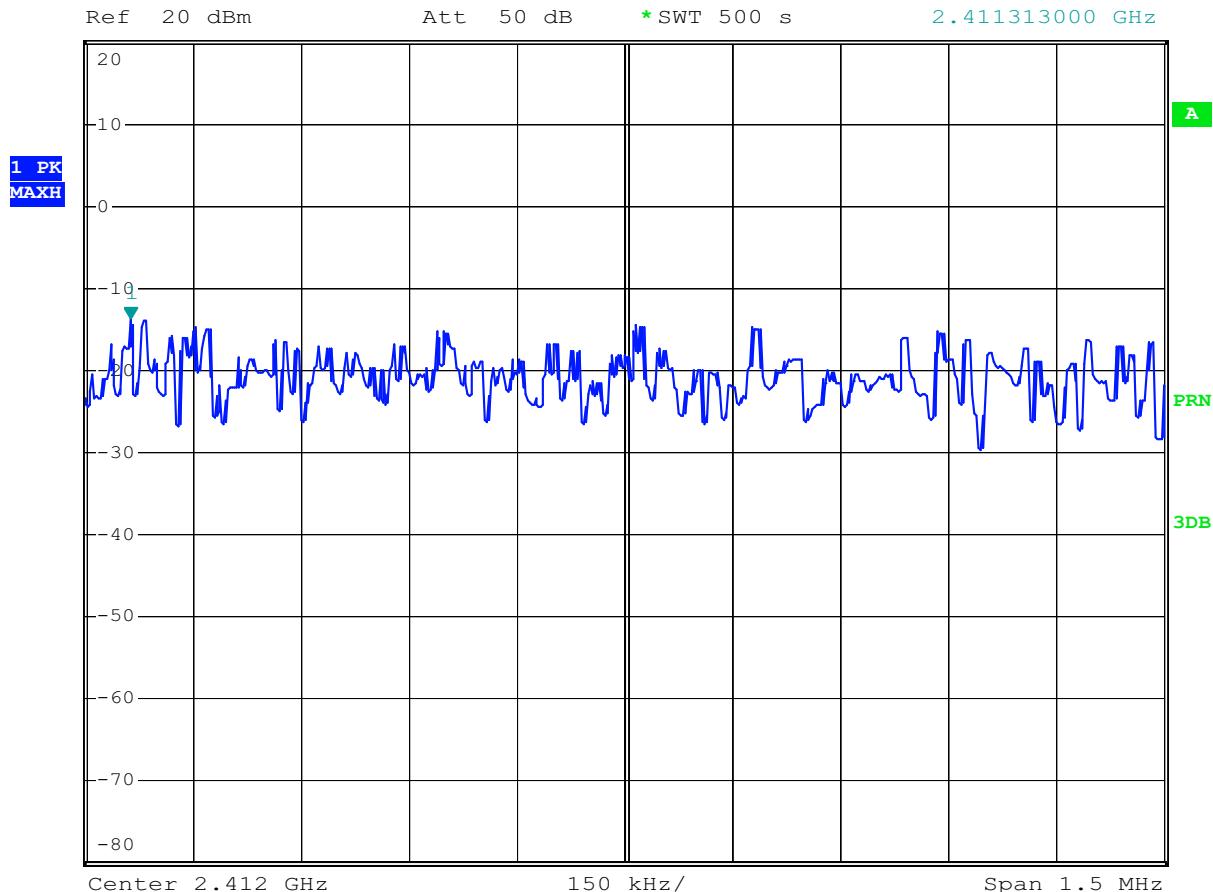
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4. 802.11b at 11Mbps of CH01

RS



Date: 7.AUG.2009 21:22:49

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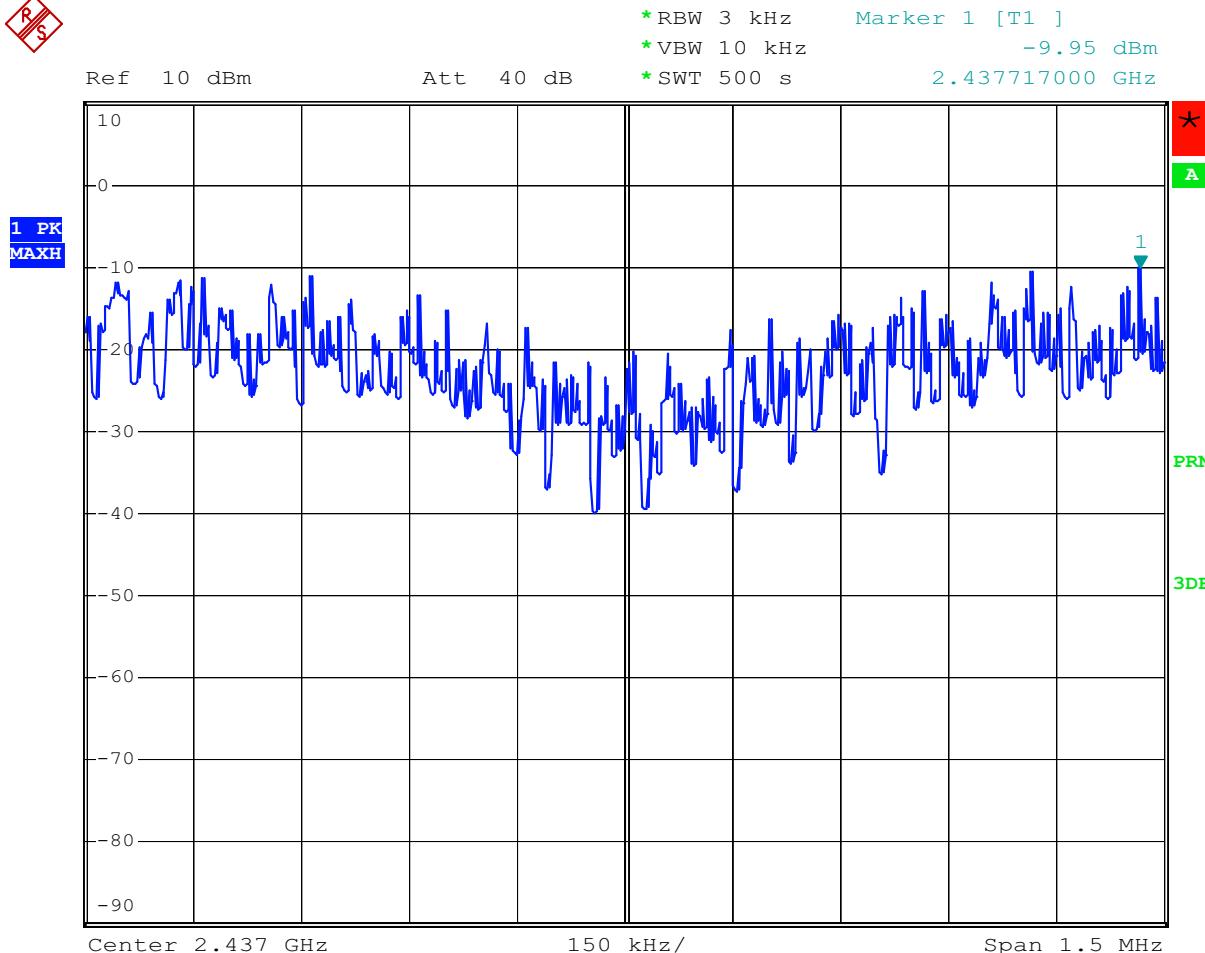
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5. 802.11b at 1Mbps of CH06

RS



Date: 7.AUG.2009 21:20:07

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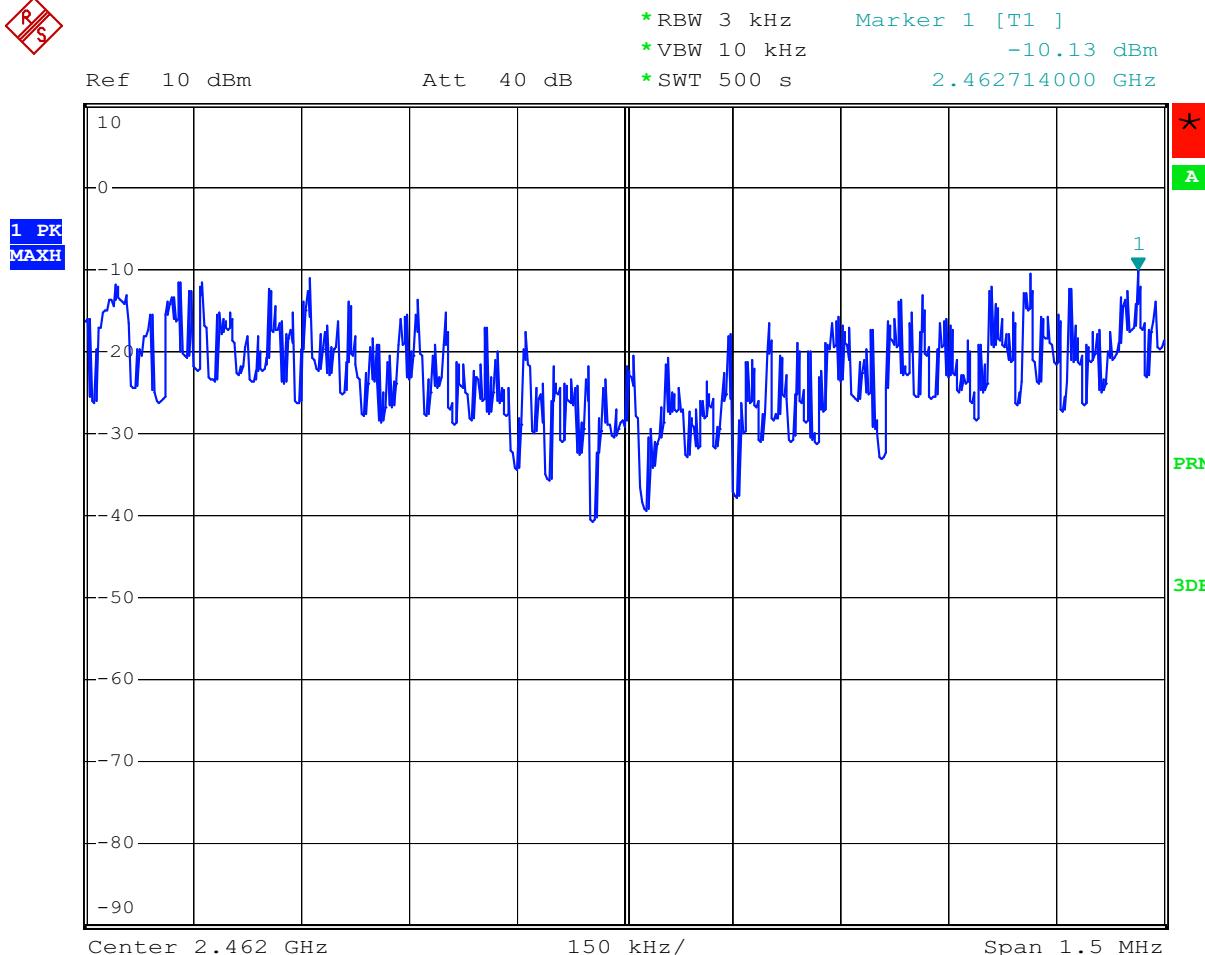
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6. 802.11b at 1Mbps of CH11

RS



Date: 7.AUG.2009 21:07:04

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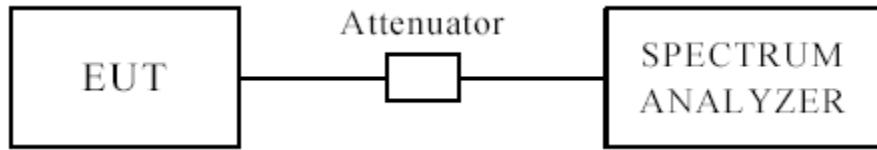
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10 Out of Band Measurement

10.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. RBW=VBW=1MHz

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used.

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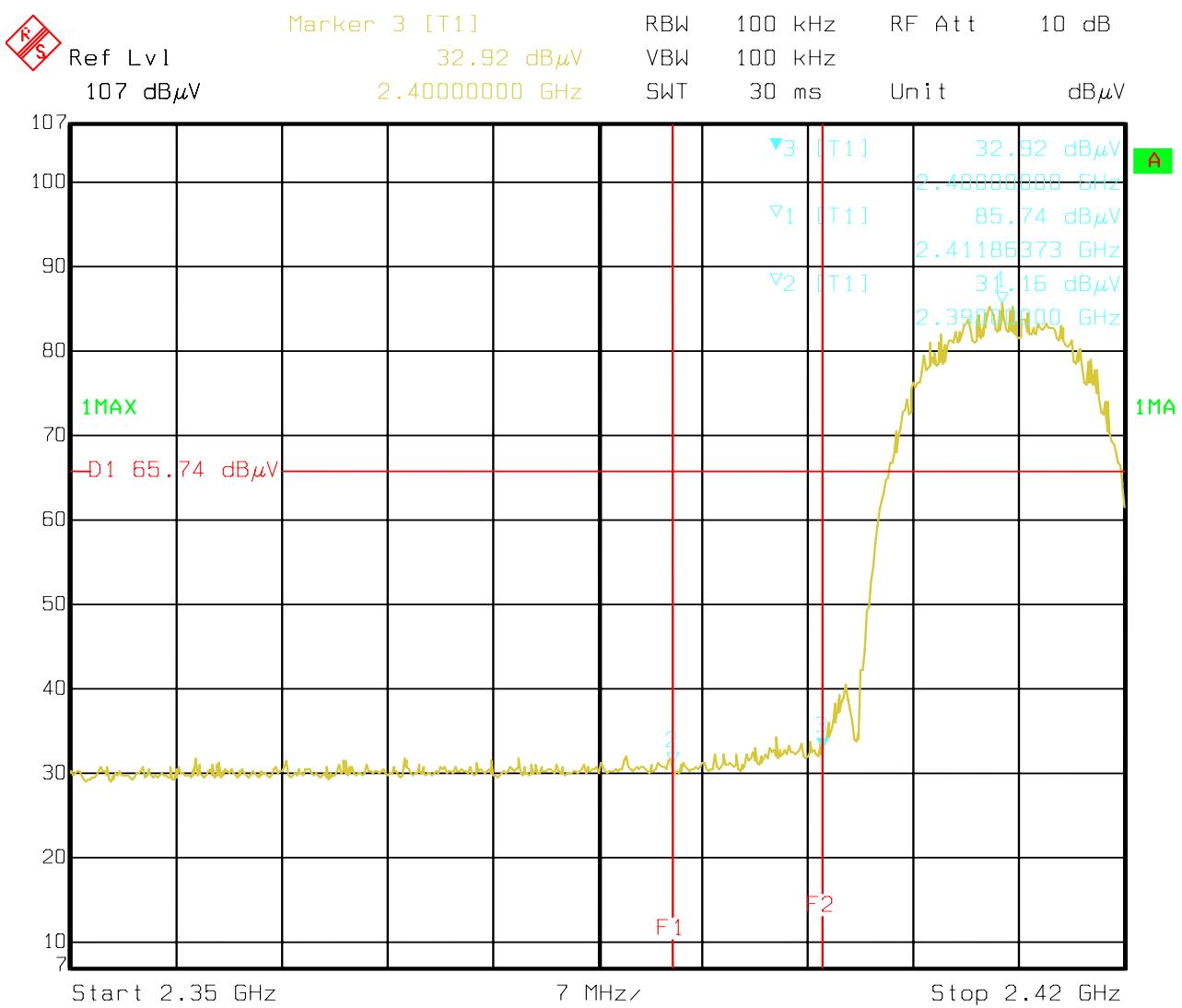
10.4 Test Result

For 802.11b mode CH01 at 11Mbps

10.4 Out of Band Test Result

Product:	Digital photo frame		Test Mode:	CH1
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dB μ V/m)	44.1(V)/43.2(H)	Limit	74(dB μ V/m)
	AV(dB μ V/m)	33.5(V)/31.1(H)		54(dB μ V/m)

Test Figure:



Date: 10.AUG.1909 16:02:09

Note: The Max. FS in Restrict Band are measured in conventional method.

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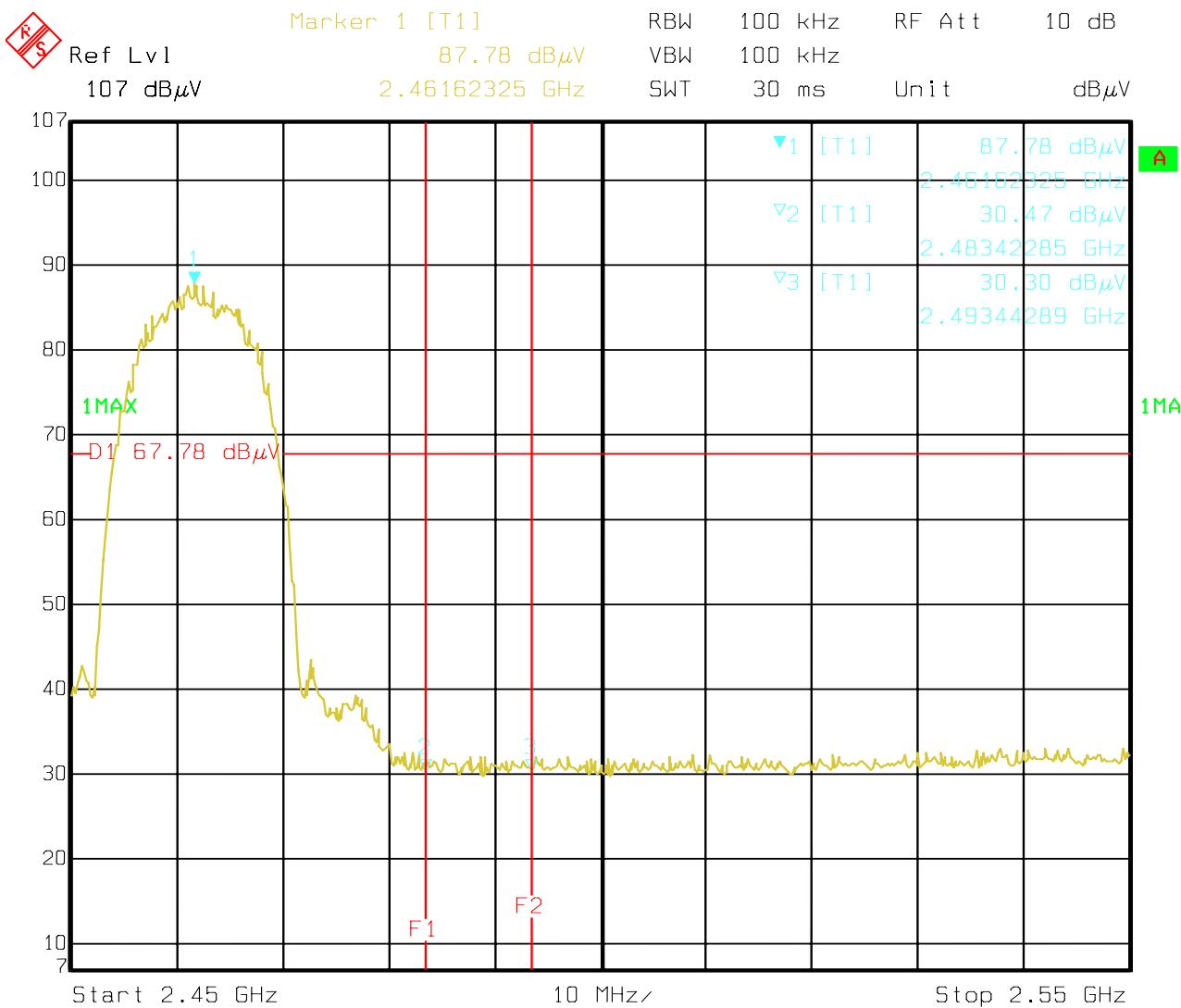


CH11 at 11Mbps

10.4 Out of Band Test Result

Product:	Digital photo frame		Test Mode:	CH11
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dB μ V/m)	43.1(V)/42.2(H)	Limit	74(dB μ V/m)
	AV(dB μ V/m)	32.9(V)/31.0(H)		54(dB μ V/m)

Test Figure:



Date: 10.AUG.1909 15:59:54

Note: The Max. FS in Restrict Band are measured in conventional method.

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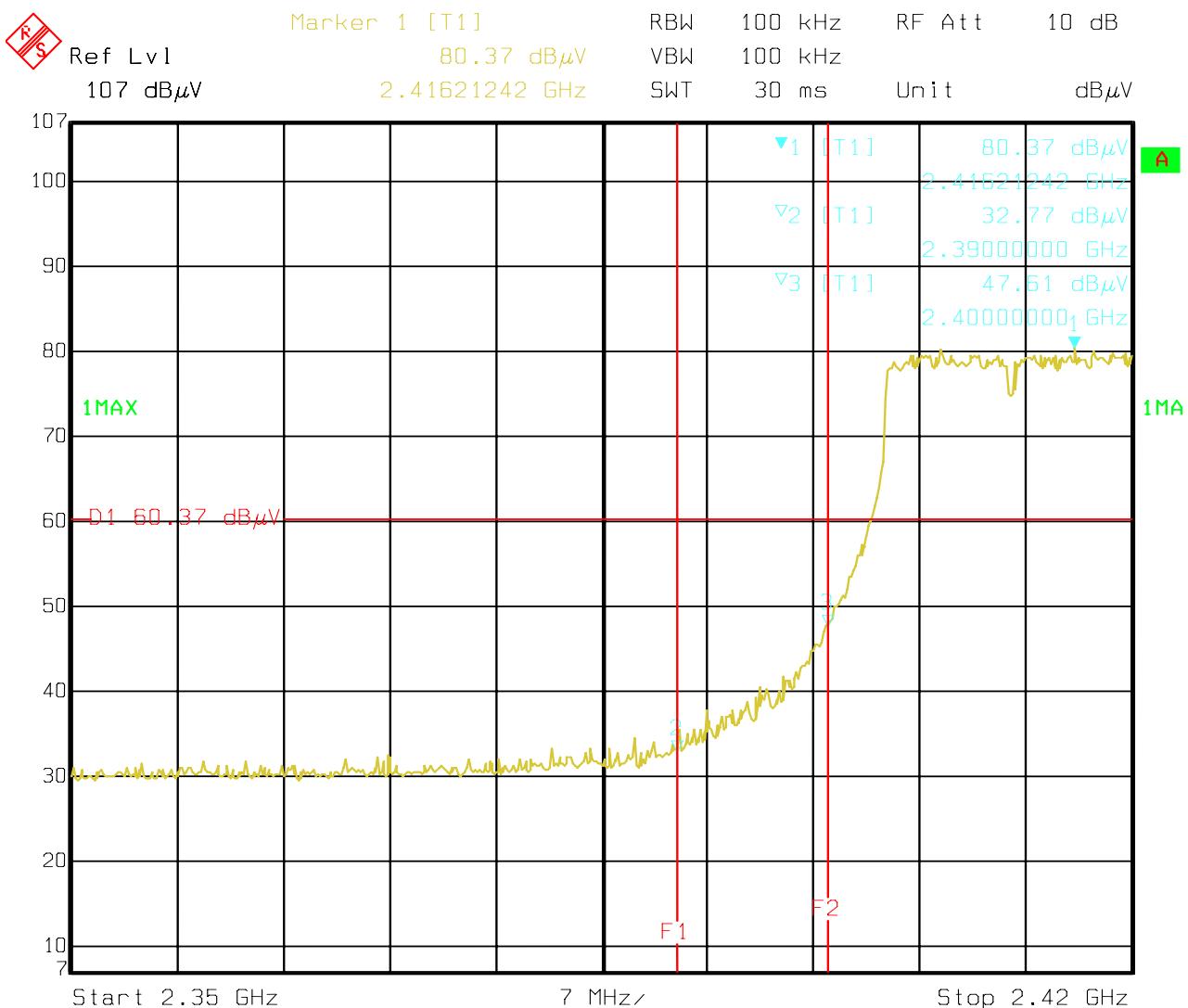


For 802.11g mode CH1 at 6Mbps

10.4 Out of Band Test Result

Product:	Digital photo frame		Test Mode:	CH1
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dB μ V/m)	53.7(V)/50.2(H)	Limit	74(dB μ V/m)
	AV(dB μ V/m)	38.9(V)/36.2(H)		54(dB μ V/m)

Test Figure:



Date: 10.AUG.1909 16:06:39

Note: The Max. FS in Restrict Band are measured in conventional method.

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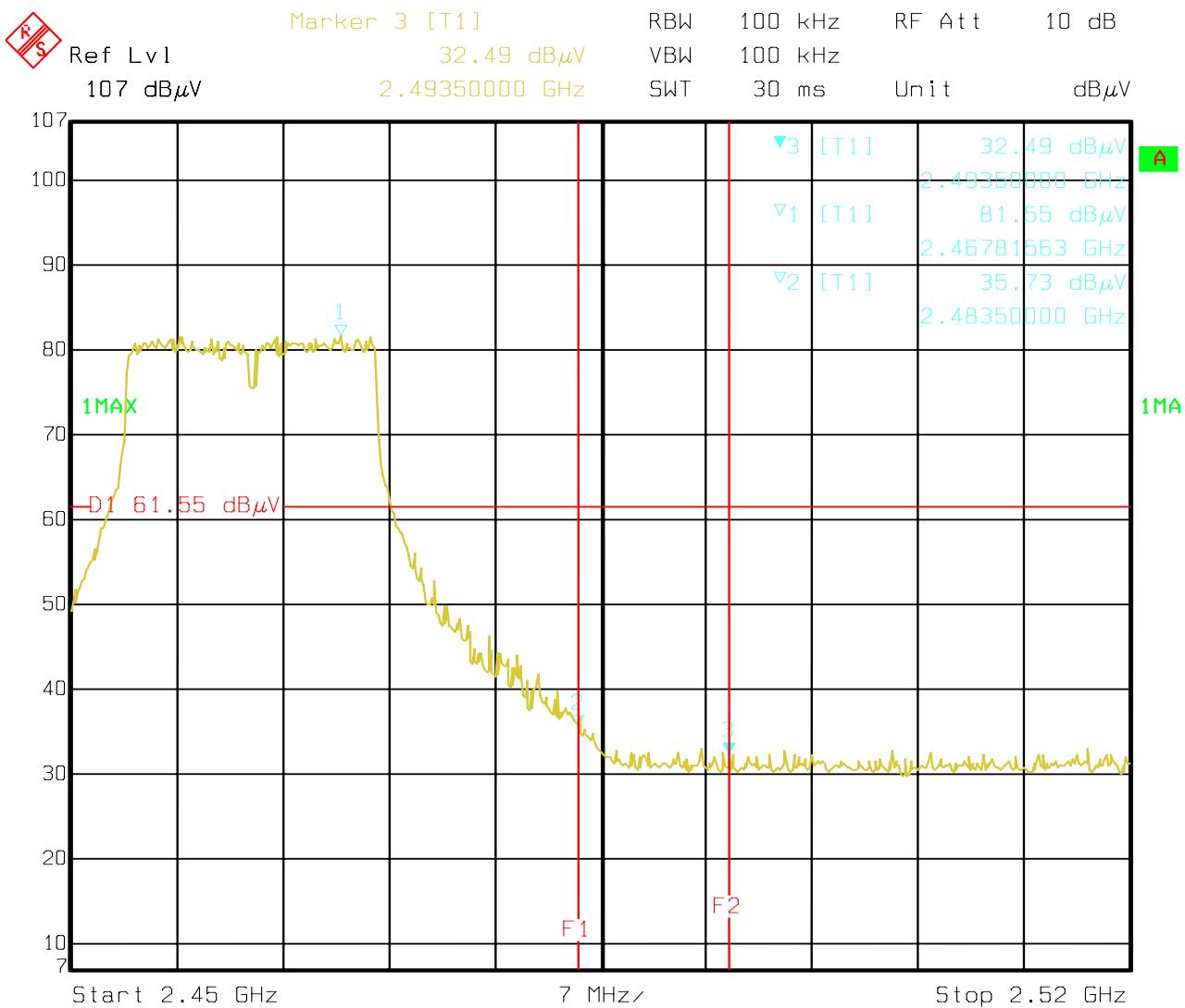


CH11 at 6Mbps

10.4 Out of Band Test Result

Product:	Digital photo frame		Test Mode:	CH11
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band	PK (dB μ V/m)	48.3(V)/44.7(H)	Limit	74(dB μ V/m)
	AV(dB μ V/m)	35.9(V)33.4(H)		54(dB μ V/m)

Test Figure:



Date: 10.AUG.1909 16:08:35

Note: The Max. FS in Restrict Band are measured in conventional method.

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11.0 Antenna Requirement

11.1 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 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

There are two antennas used in the device. One is PCB antenna with maximum antenna gain 1.0dBi, and the other is such like this: an RF cable connected the IPX connector with maximum antenna gain 1.7dBi

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12.0 Maximum Permissible Exposure

Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

MPE Calculation Method

$$E \text{ (V/m)} = (30 * P * G)^{0.5} / d \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = E^2 / 377$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = (30 * P * G) / (377 * d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

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Calculated Result and Limit

802.11b Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.479	16.51	44.771	0.0132	1	Compiles

802.11g Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.479	10.92	12.359	0.0036	1	Compiles

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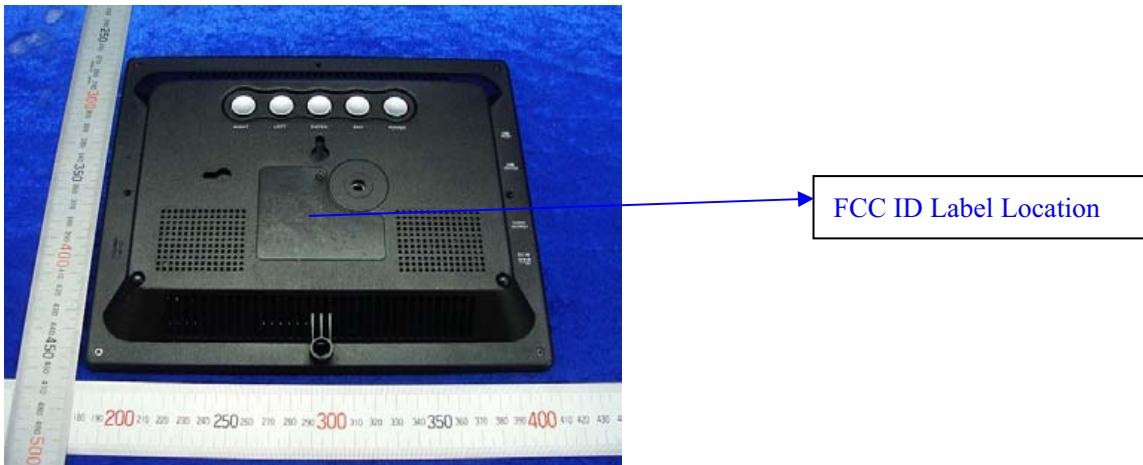
13.0 FCC ID Label

FCC ID: XBIDPFID83571215

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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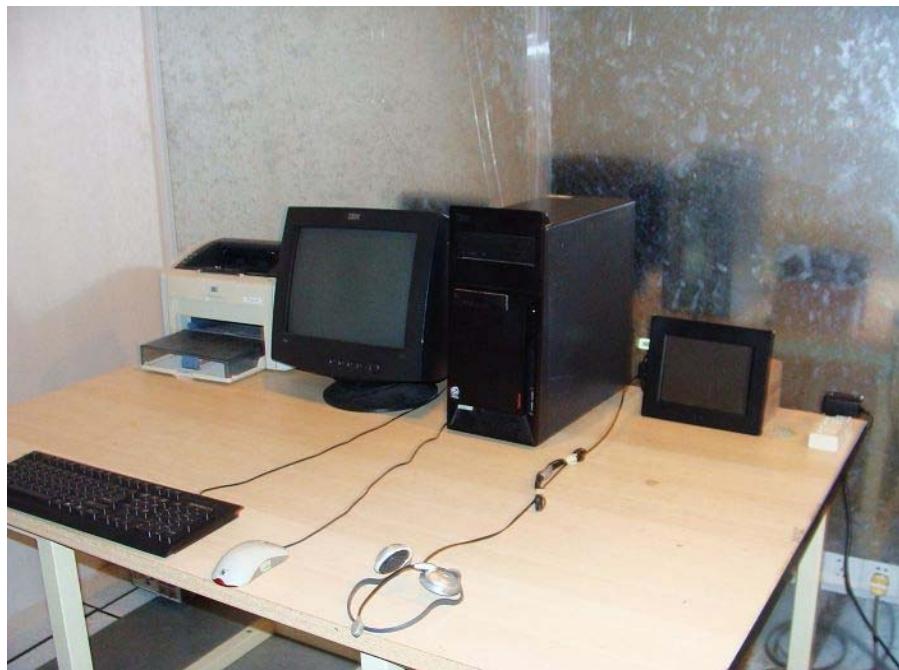
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14.0 Photo of testing

14.1 Conducted test View--



14.1 Emission Radiated test View--



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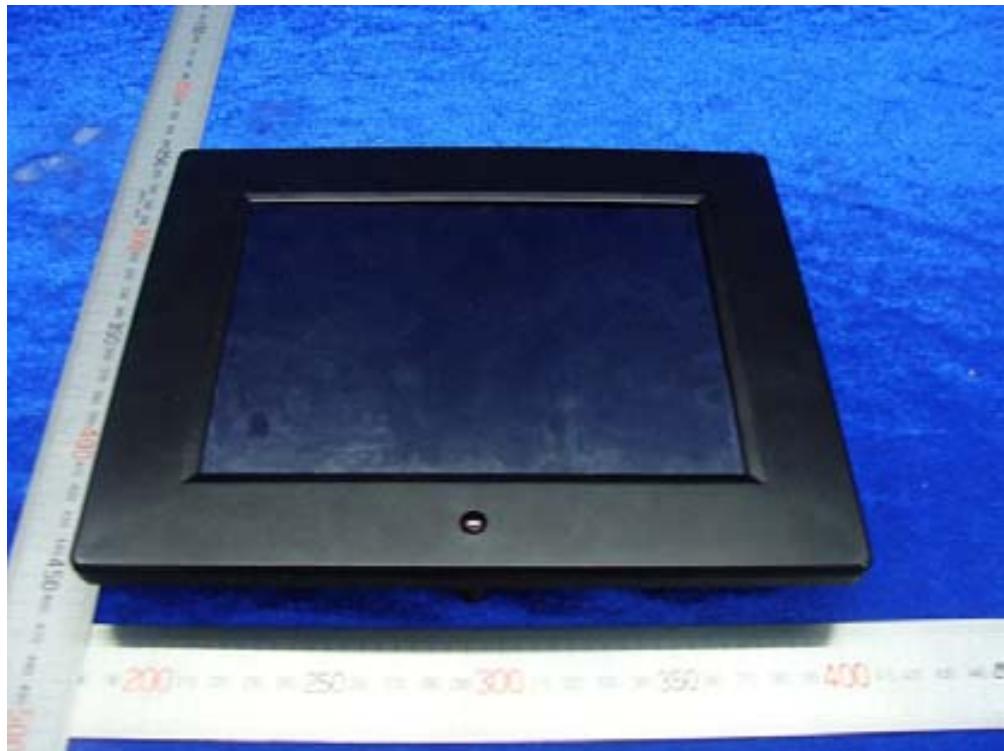
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14.2 Photo for the EUT

Outside View



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Outside View



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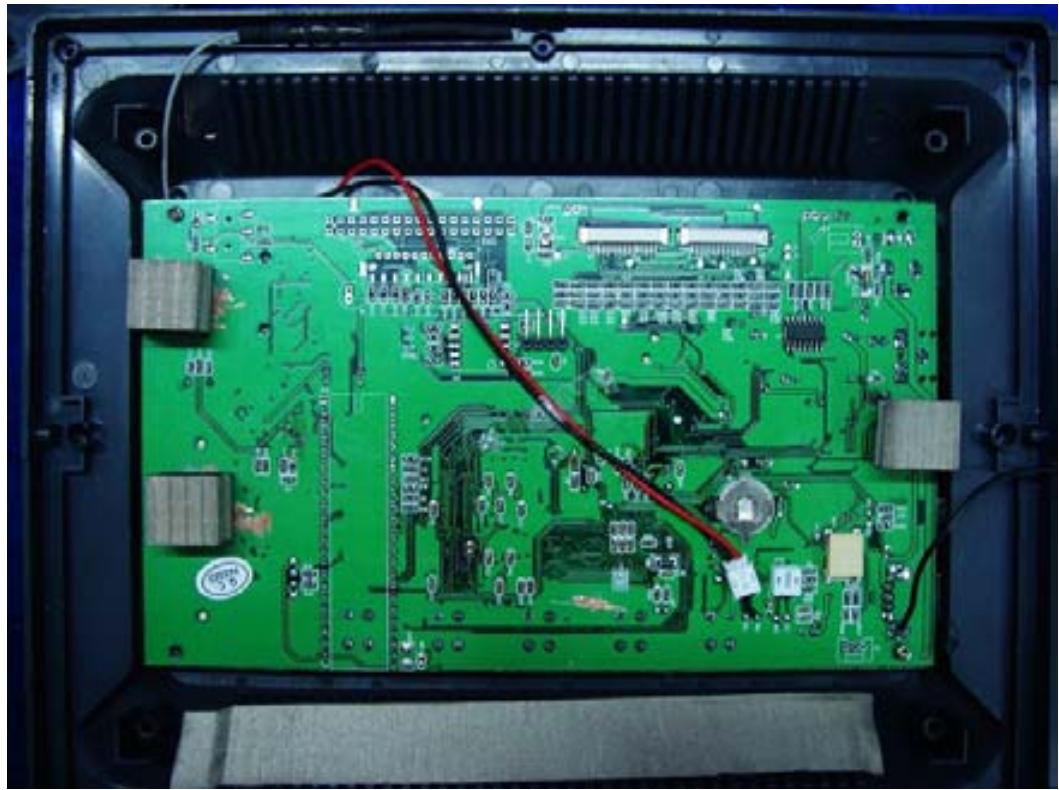
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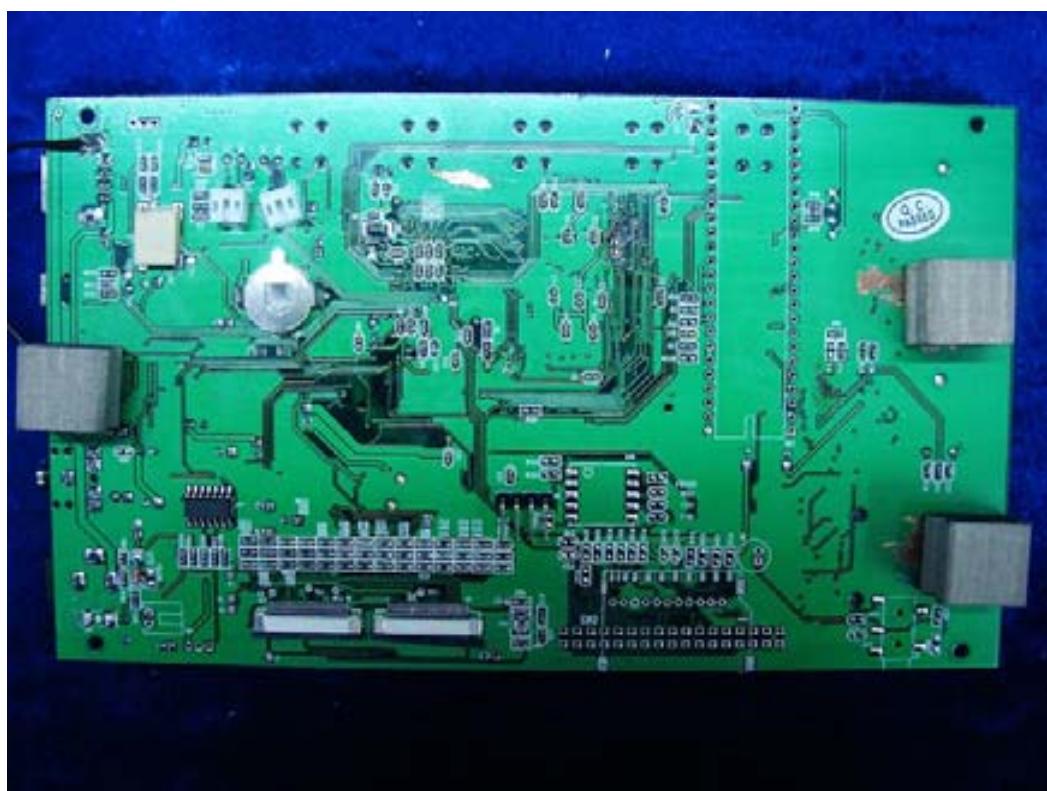
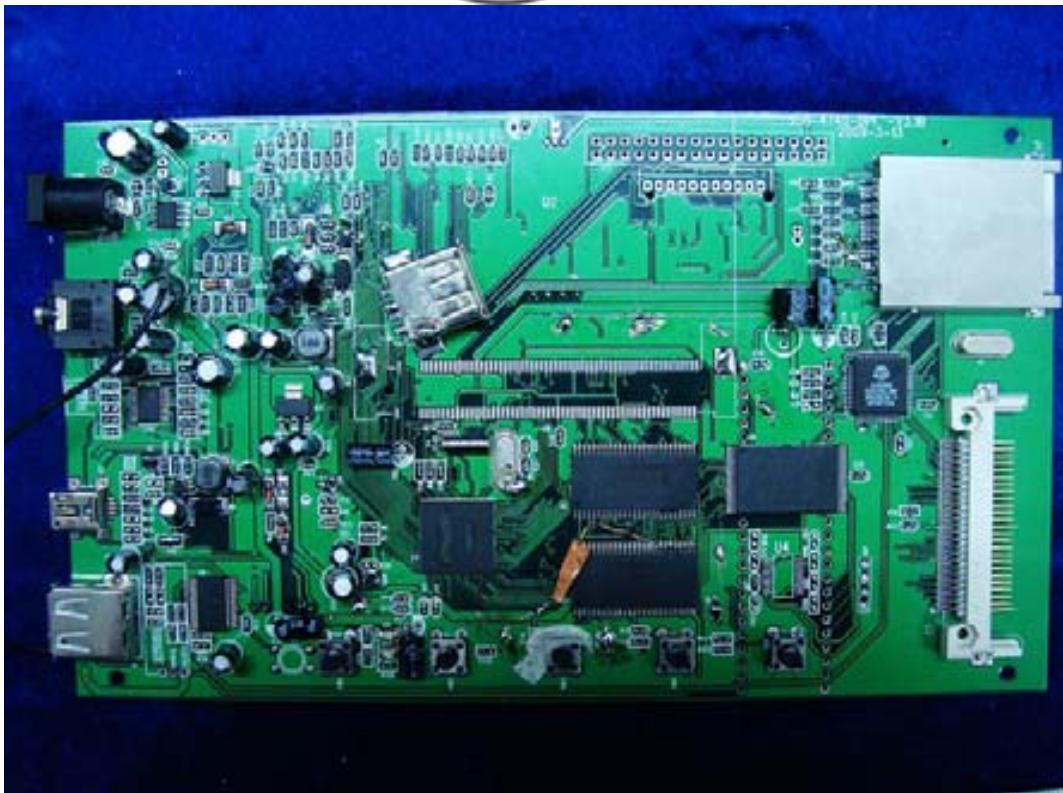
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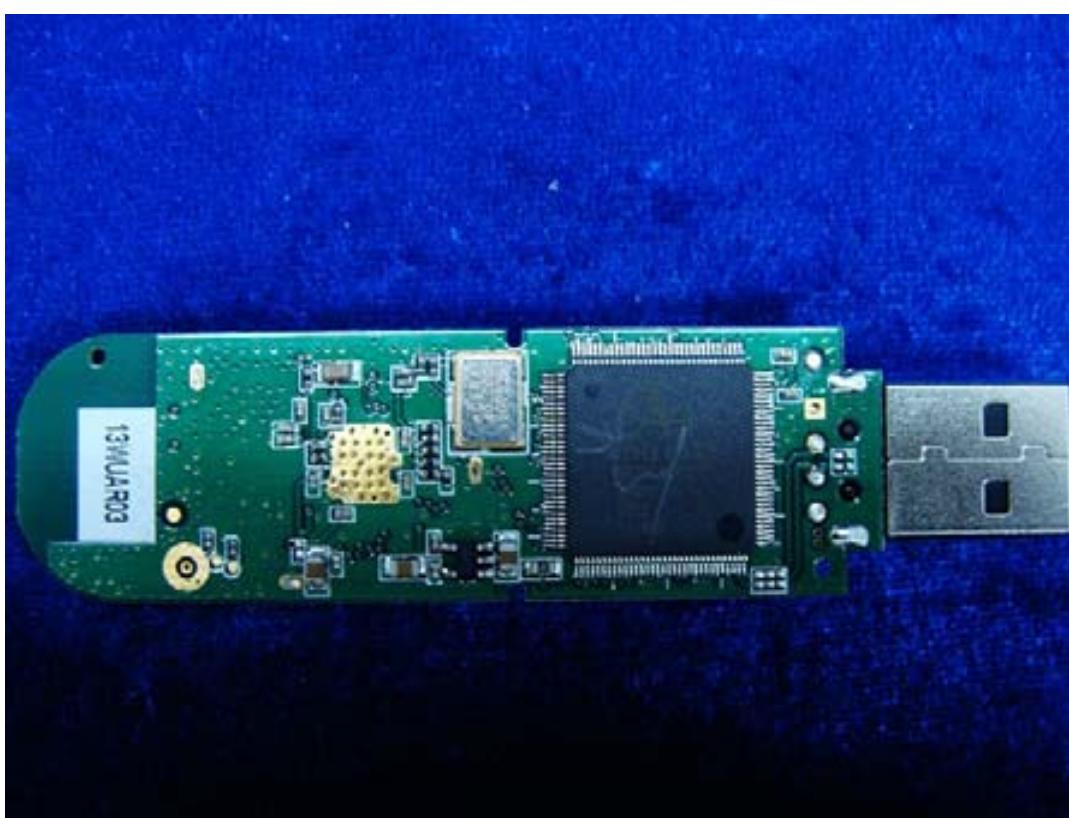
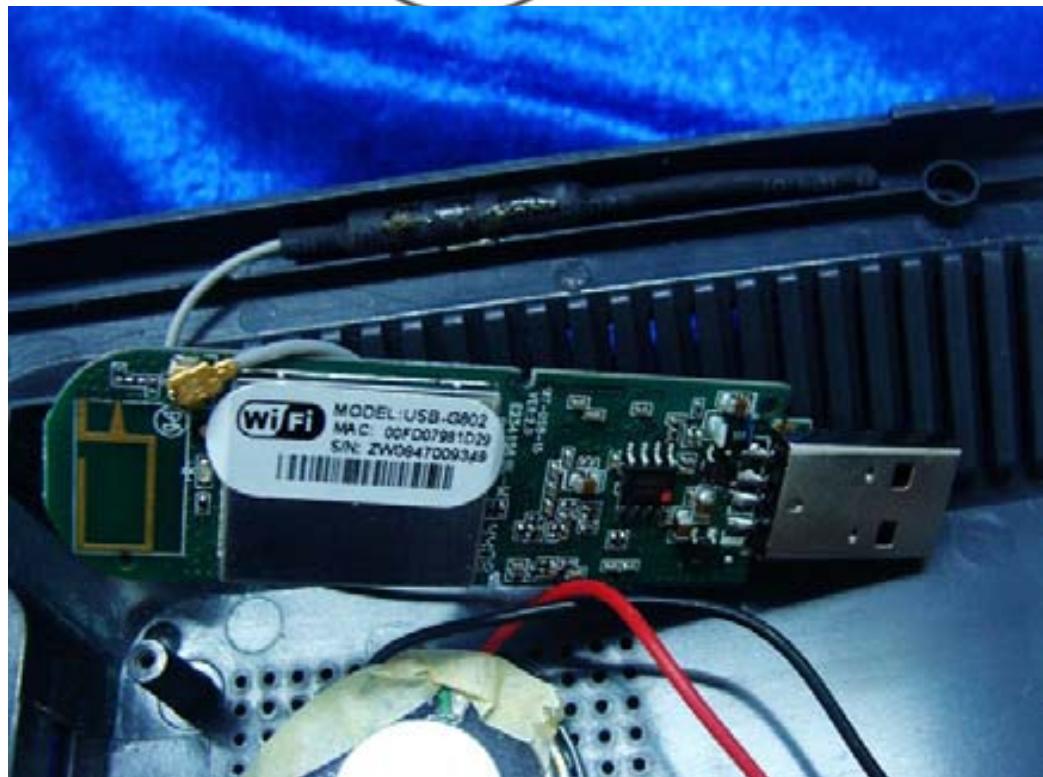
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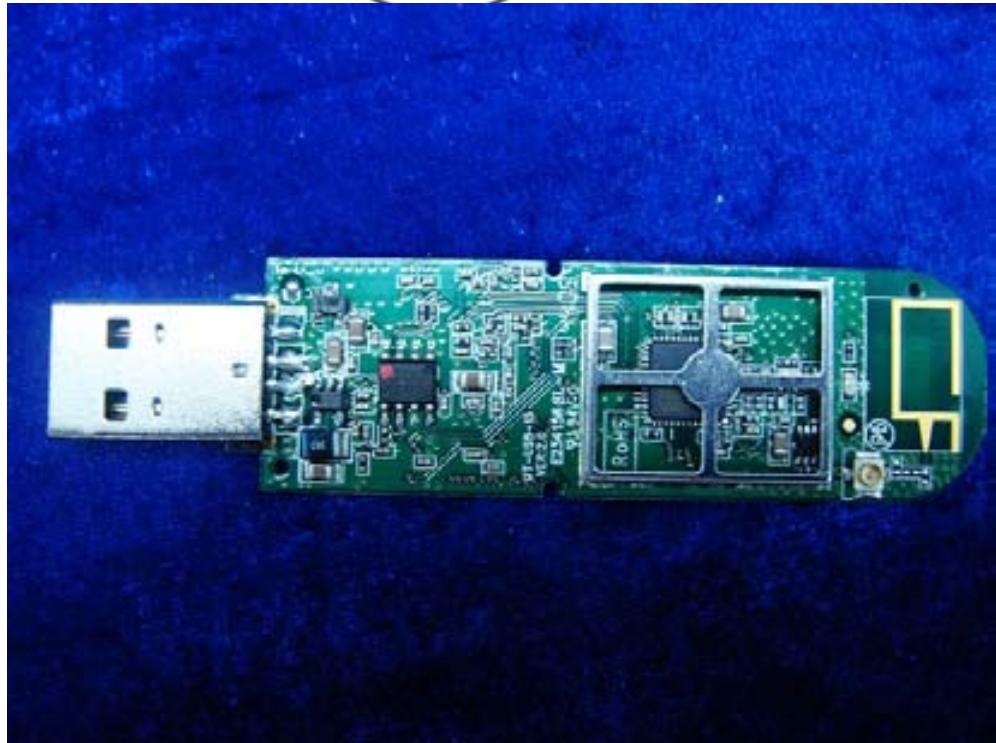
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WLAN Card



Adaptor model No: FJ-SW1280G007



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