



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025Accredited Lab.

Report No:

FCC 0703098

File reference No:

2007-04-18

Applicant: Group Sense PDA Limited

Product: PDA with WiFi 802.11b/g

Model No: WF28

Trademark: WideFly, Group Sense Mobile Tech Limited

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result:

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

Approved By

Jack Chung

Jack Chung

Manager

Dated: April 20,2007

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.

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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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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 899988
For 3m & 10 m OATS
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205
For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Group Sense PDA Limited
Address: 6 th Floor, Building 9, No.5 Science Park West Avenue, Hong Kong Science Park, Shatin, Hong Kong
Telephone: 852-28328596
Fax: 852-25912397

1.3 Description of EUT

Product:	PDA with WiFi 802.11b/g
Manufacturer:	Group Sense PDA Limited
Brand Name:	WideFly, Group Sense Mobile-Tech Limited
Model Number:	WF28
Additional Model Name	N/A
Additional Trade Name	N/A
Rating:	Input: DC 5V; 1.5A
Power Supply:	Model: S010AU0500150, Input: 100-240V~, 0.35A, 50/60Hz; Output: DC5V, 1.5A
Type of Modulation	DBPSK, DQPSK, CCK, OFDM
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
Antenna type	chip dielectric antenna

1.4 Submitted Sample

2 Sample

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1.5 Test Duration

2007-04-01 to 2007-04-23

1.6 Test Uncertainty

Conducted Emissions Uncertainty = $\pm 2.4\text{dB}$

Radiated Emissions Uncertainty = $\pm 4.2\text{dB}$

1.7 Test Engineer

Terry Tang

The sample tested by _____

Print Name: Terry Tang

Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2006-12-06	2007-12-05
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2006-12-06	2007-12-05
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2006-12-06	2007-12-05
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2006-12-06	2007-12-05
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2006-12-06	2007-12-05
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2007-03-30	2008-03-29
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2007-02-19	2008-02-18
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2007-02-19	2008-02-18
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2007-02-19	2008-02-18
System Controller	CT	SC100	-	2007-02-19	2008-02-18
Printer	EPSON	PHOTO EX3	CFNH234850	2007-02-19	2008-02-18
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2007-02-19	2008-02-18
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2007-02-19	2008-02-18

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Computer	IBM	8434	1S8434KCE99BLX LO*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2007-02-23	2008-02-22
Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2007-02-19	2008-02-18
CDN	EM TEST	CDN M2/M3	-	2007-02-19	2008-02-18
Attenuation	EM TEST	ATT6/75	-	2007-02-19	2008-02-18
Resistance	EM TEST	R100	-	2007-02-19	2008-02-18
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2007-02-19	2008-02-18
Inductive Components	EM TEST	MC2630	-	2007-02-19	2008-02-18
Antenna	EM TEST	MS100	-	2007-02-19	2008-02-18
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2007-02-05	2008-02-04
Power Amplifier	AR	150W1000	300999	2007-02-05	2008-02-04
Field probe	Holaday	HI-6005	105152	2007-02-05	2008-02-04
Bilog Antenna	Chase	CBL6111C	2576	2007-02-05	2008-02-04
Loop Antenna	EMCO	6502	00042960	2007-02-05	2008-02-04
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2007-02-05	2008-02-04
3m OATS	--	--	N/A	2007-02-05	2008-02-04

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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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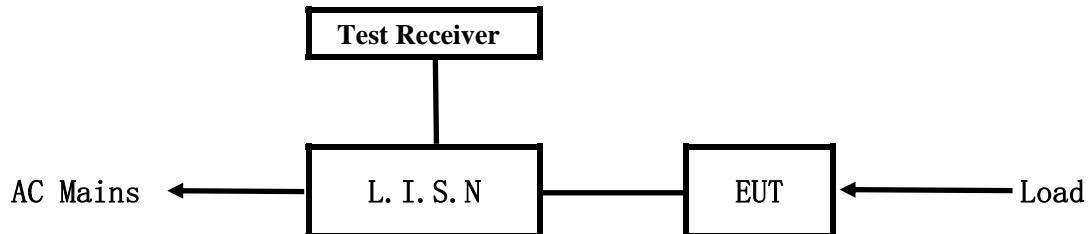
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

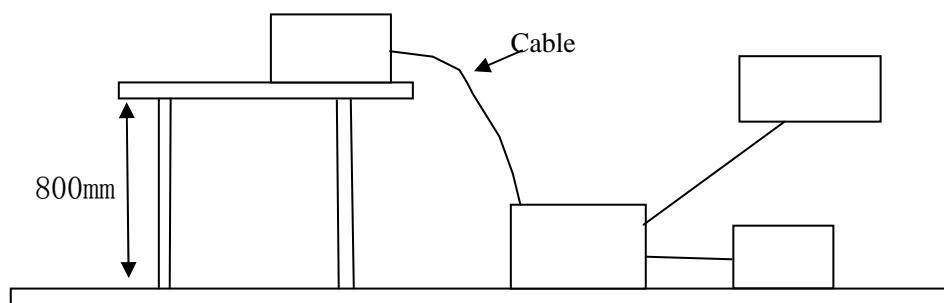


EUT: Equipment Under Test

5.2 Test Method and test Procedure

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

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
PDA with WiFi 802.11b/g	Group Sense PDA Limited	WF28	RWL-B100

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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 15.207

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.

Note: the worse cases was selected to conducted the test

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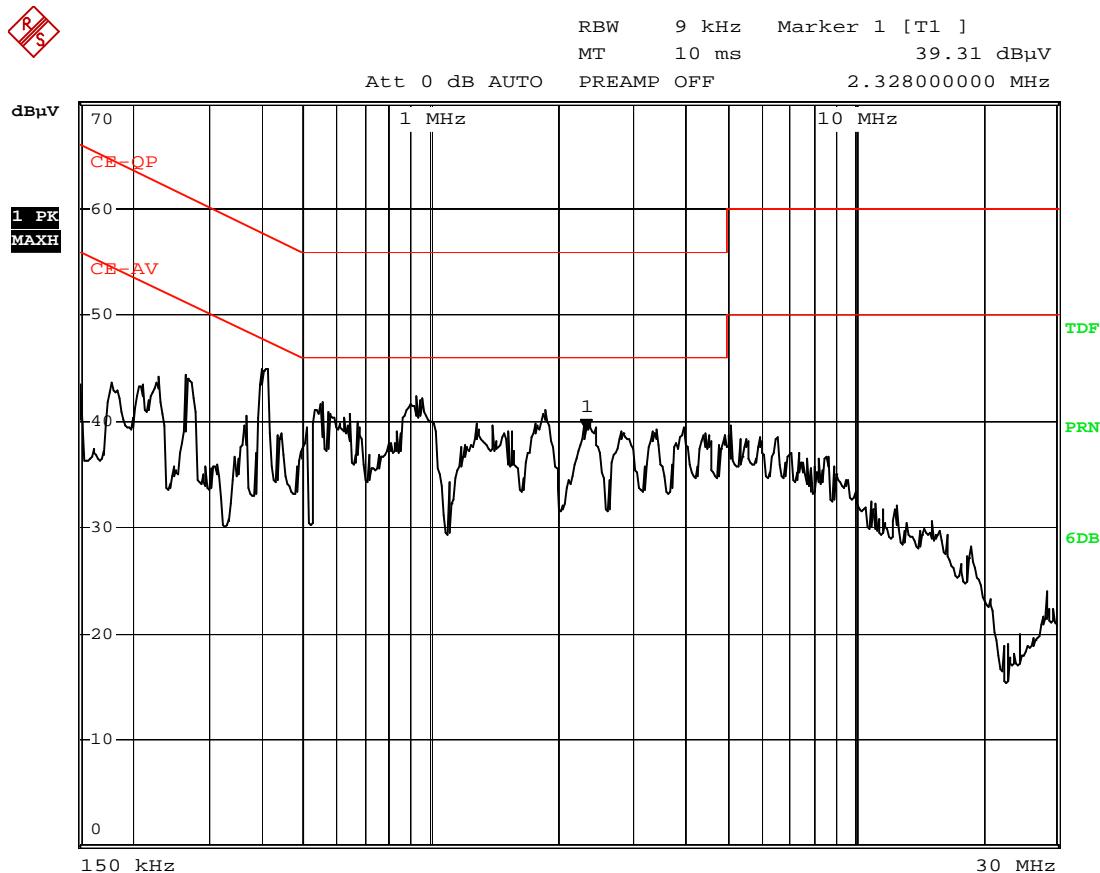


A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Transmitting at channel 1 under 802.11g mode at 6Mbps

Results: **Pass**

Please refer to following diagram for individual



Date: 18.APR.2007 20:49:55

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.410	42.63	32.75	--	--	57.60	47.60
0.552	38.56	24.85	--	--	56.00	46.00
0.928	36.95	25.73	--	--	56.00	46.00
1.836	37.88	31.98	--	--	56.00	46.00
3.404	35.08	30.15	--	--	56.00	46.00

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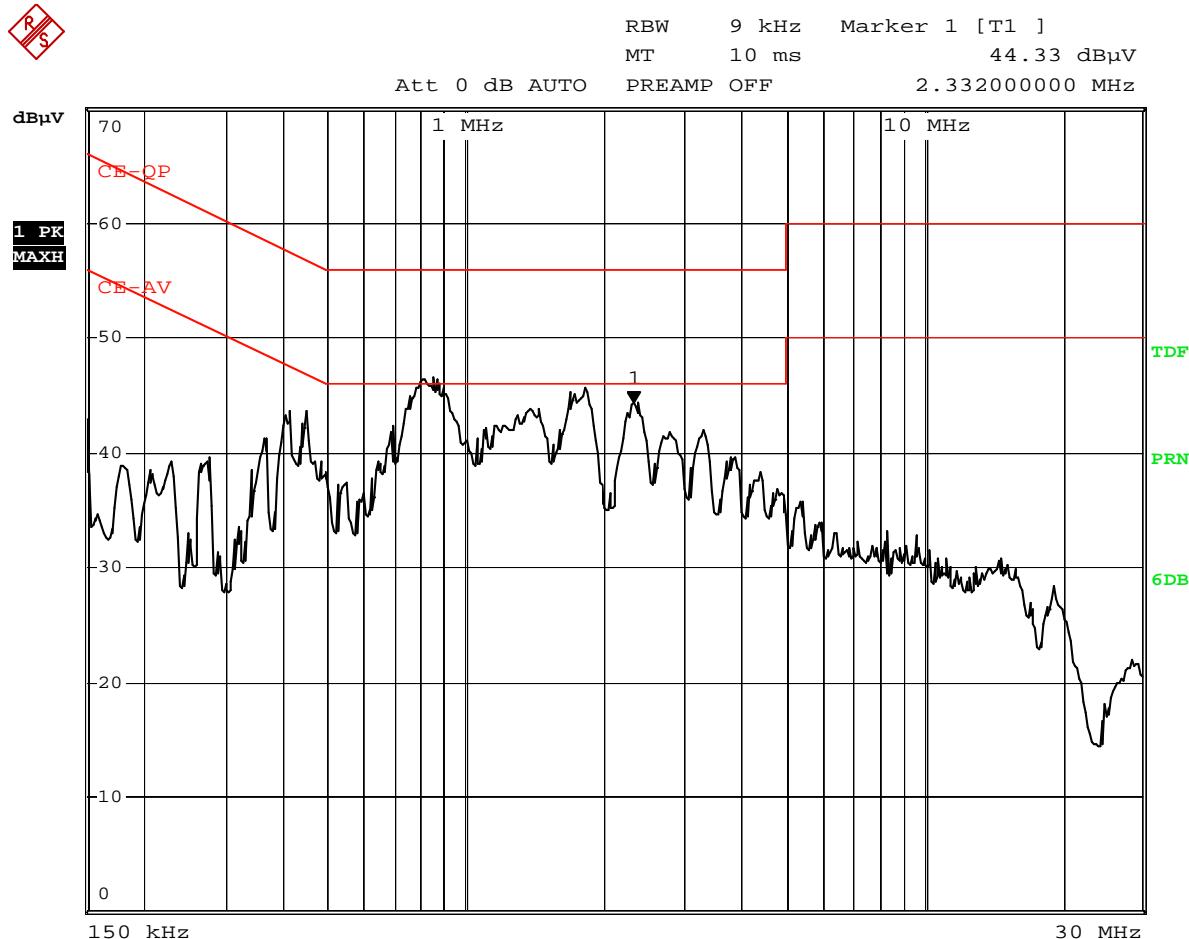


B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Transmitting at channel 1 under 802.11g mode at 6Mbps

Results: **Pass**

Please refer to following diagram for individual



Date: 18.APR.2007 20:47:33

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.450	--	--	39.67	30.57	56.90	46.90
0.852	--	--	41.84	30.64	56.00	46.00
0.808	--	--	42.18	30.76	56.00	46.00
1.860	--	--	41.64	32.23	56.00	46.00
2.332	--	--	40.97	31.35	56.00	46.00

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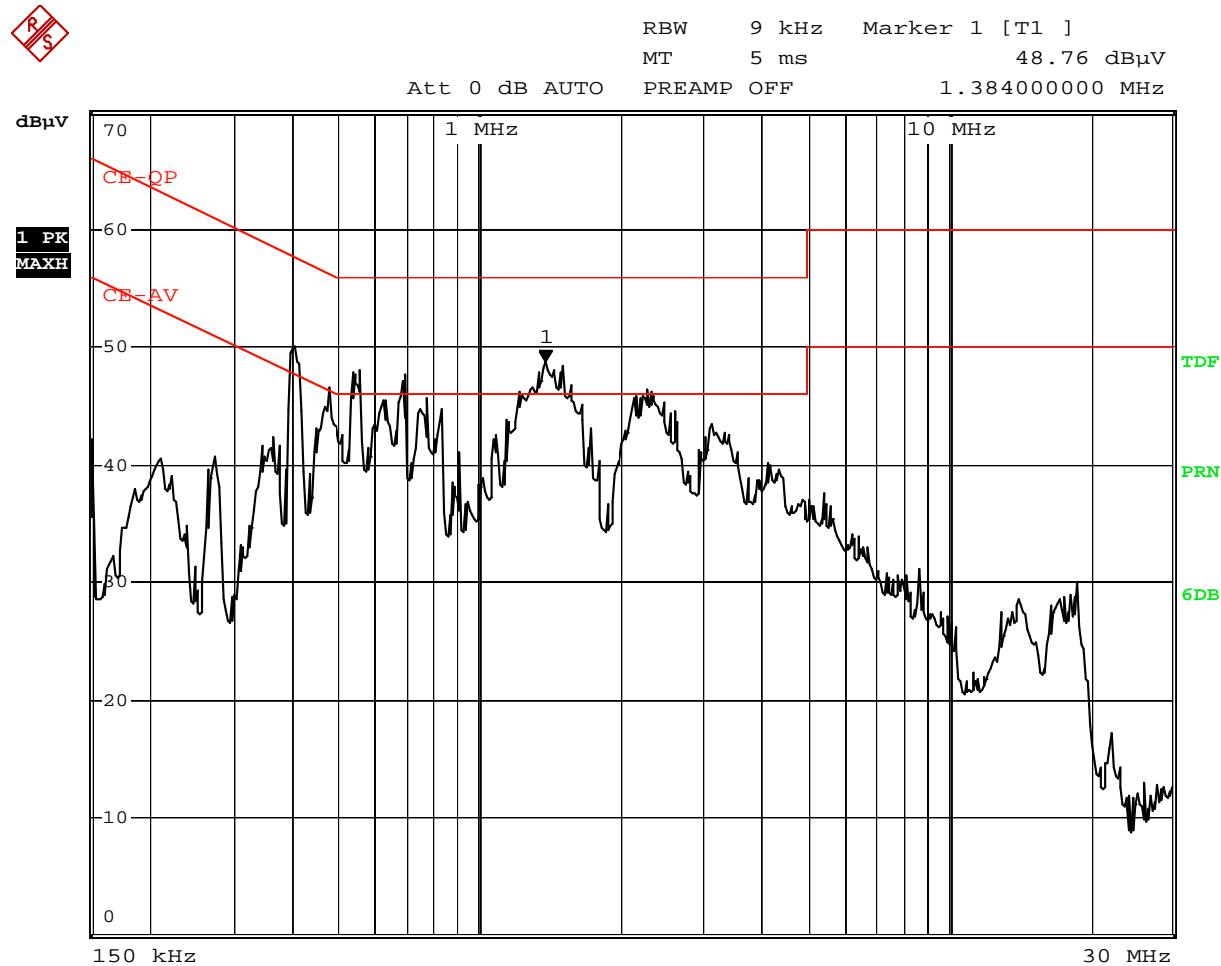


C Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Transmitting at channel 11 under 802.11g mode at 6Mbps

Results: **Pass**

Please refer to following diagram for individual



Date: 19.APR.2007 01:03:21

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.406	--	--	47.93	39.56	57.70	47.70
0.536	--	--	44.20	34.53	56.00	46.00
0.696	--	--	43.82	31.74	56.00	46.00
1.384	--	--	43.65	33.67	56.00	46.00

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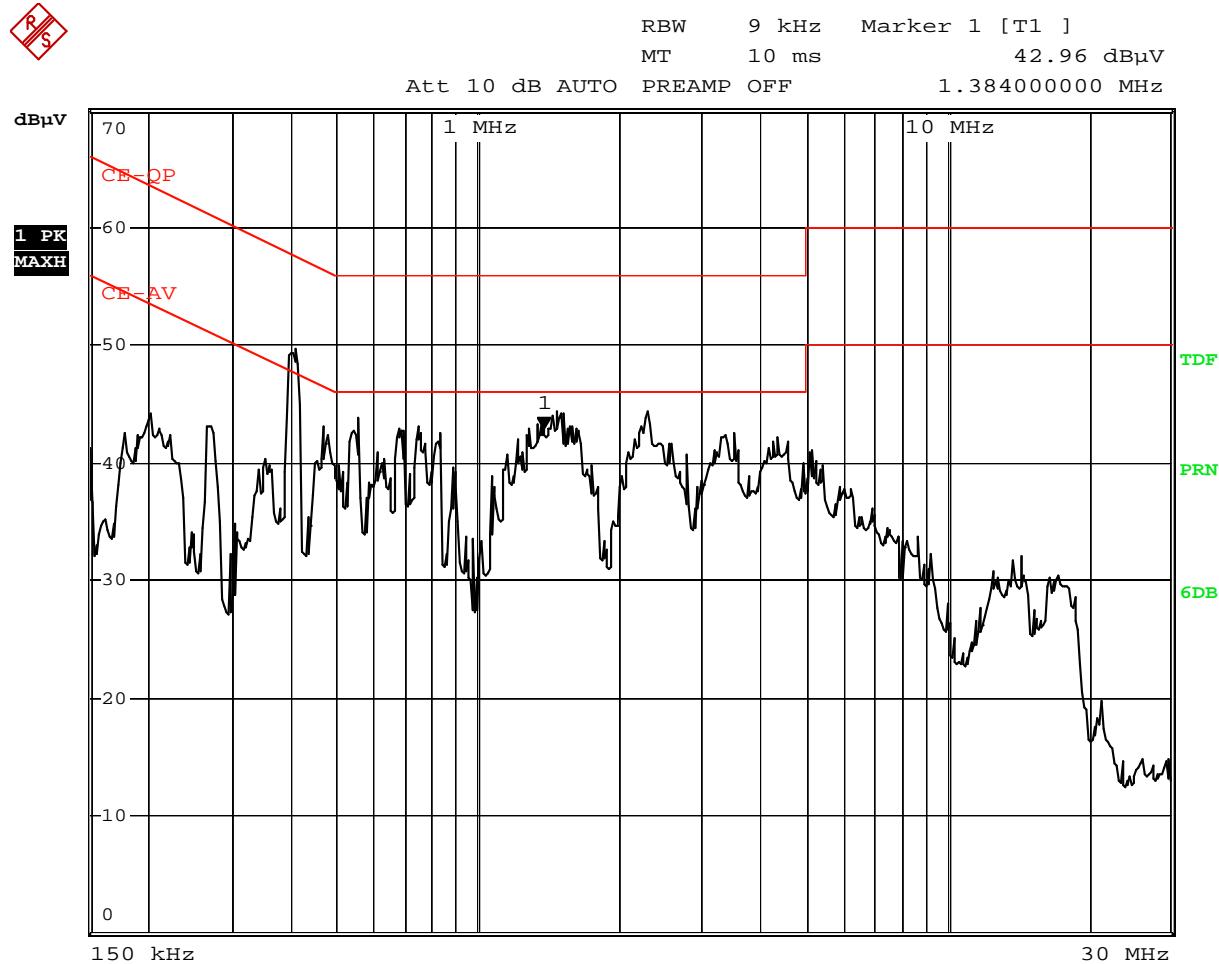


D Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Transmitting at channel 11 under 802.11g mode at 6Mbps

Results: **Pass**

Please refer to following diagram for individual



Date: 19.APR.2007 01:05:15

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.410	46.95	39.05	--	--	57.60	47.60
0.748	37.65	30.07	--	--	56.00	46.00
1.472	38.99	30.86	--	--	56.00	46.00
2.296	38.55	30.88	--	--	56.00	46.00

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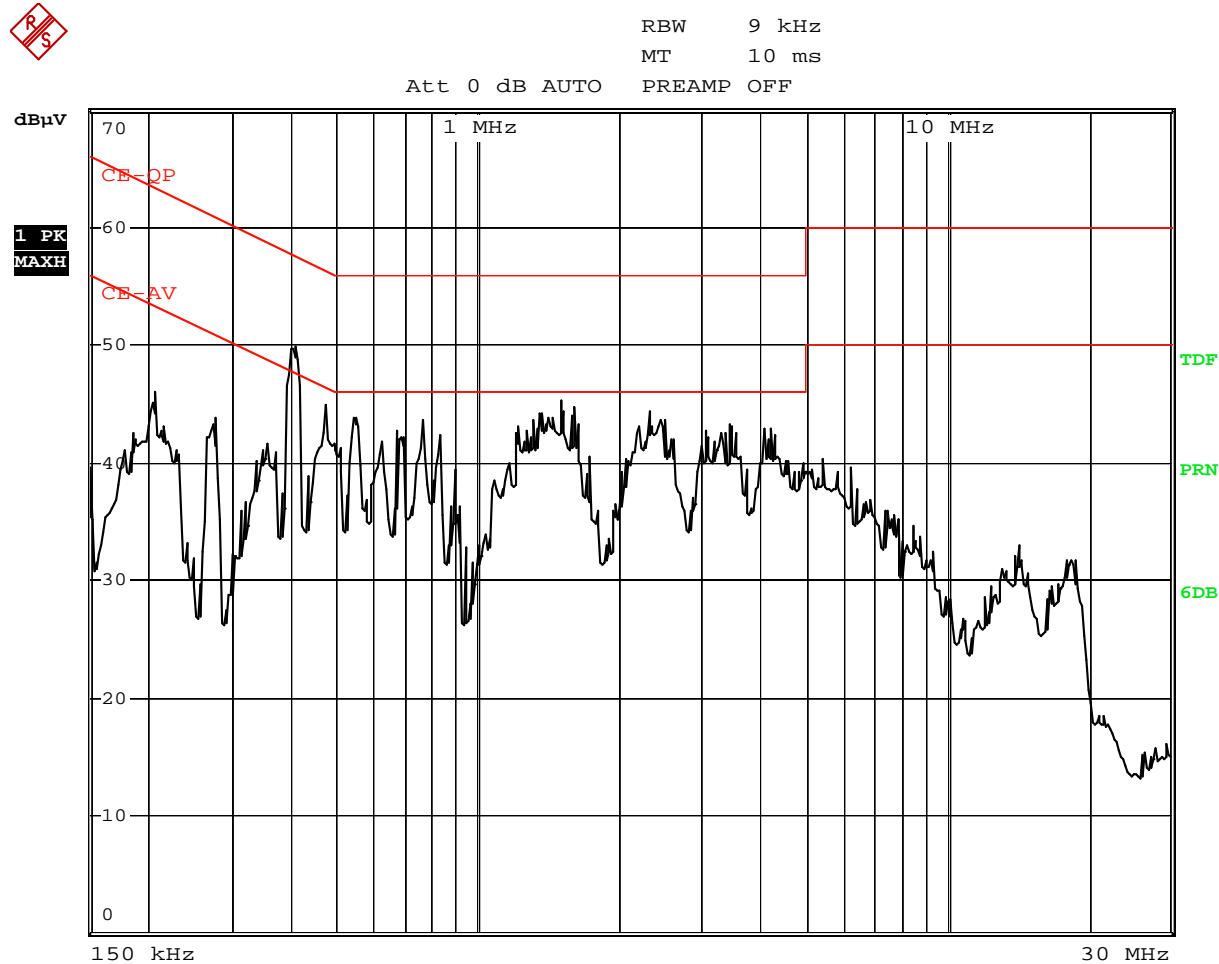


E Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Transmitting at channel 11 under 802.11b mode at 1Mbps

Results: **Pass**

Please refer to following diagram for individual



Date: 19.APR.2007 00:57:27

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.410	47.26	39.53	--	--	57.60	47.60
1.508	41.01	31.45			56.00	46.00
2.340	38.14	31.35	--	--	56.00	46.00
3.456	36.00	29.10			56.00	46.00

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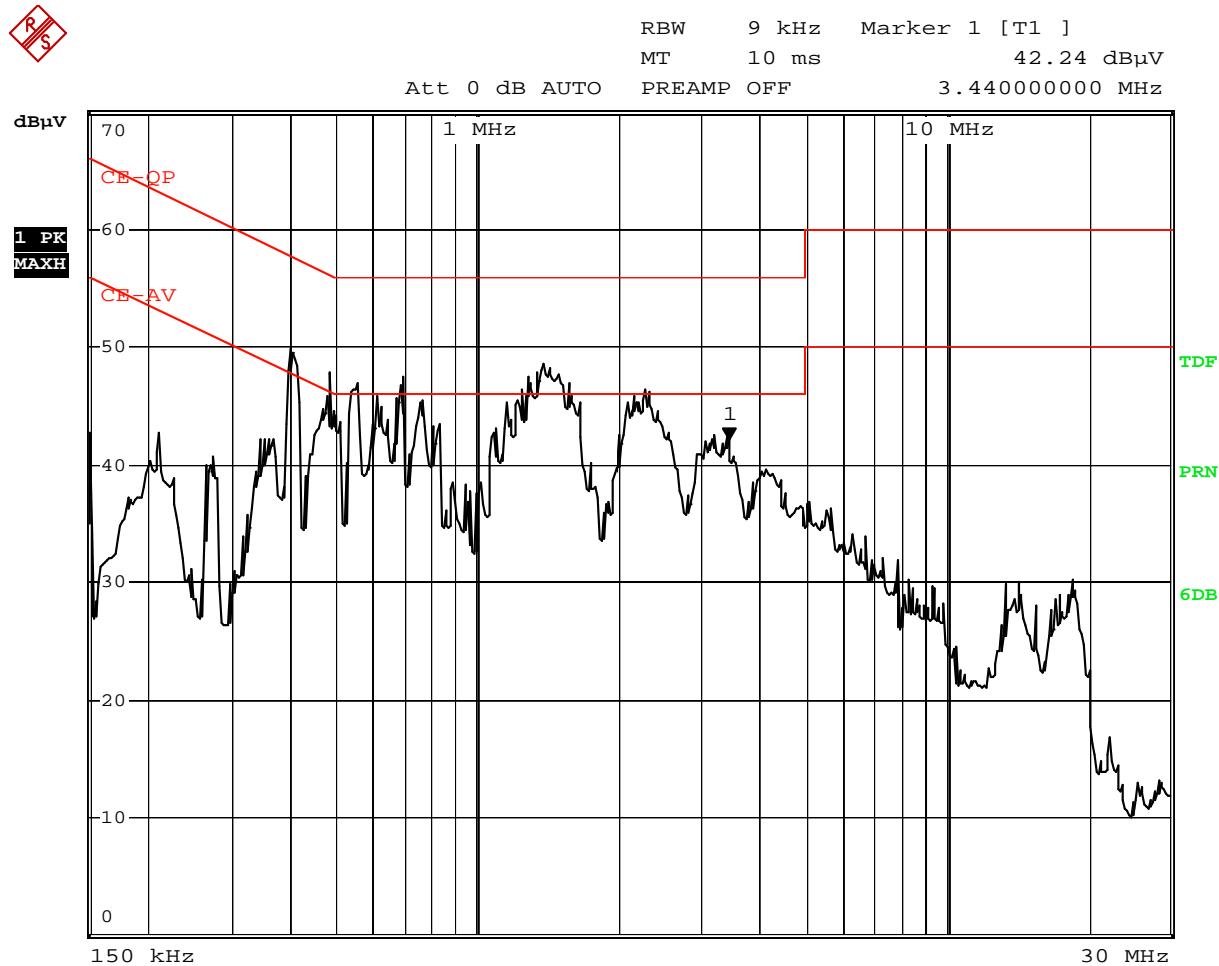


F Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Transmitting at channel 11 under 802.11b mode at 1Mbps

Results: **Pass**

Please refer to following diagram for individual



Date: 19.APR.2007 01:00:12

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.402	--	--	48.10	37.80	57.70	47.70
0.486	--	--	42.24	34.10	56.40	46.40
0.692	--	--	44.53	34.70	56.00	46.00
1.380	--	--	44.12	33.85	56.00	46.00

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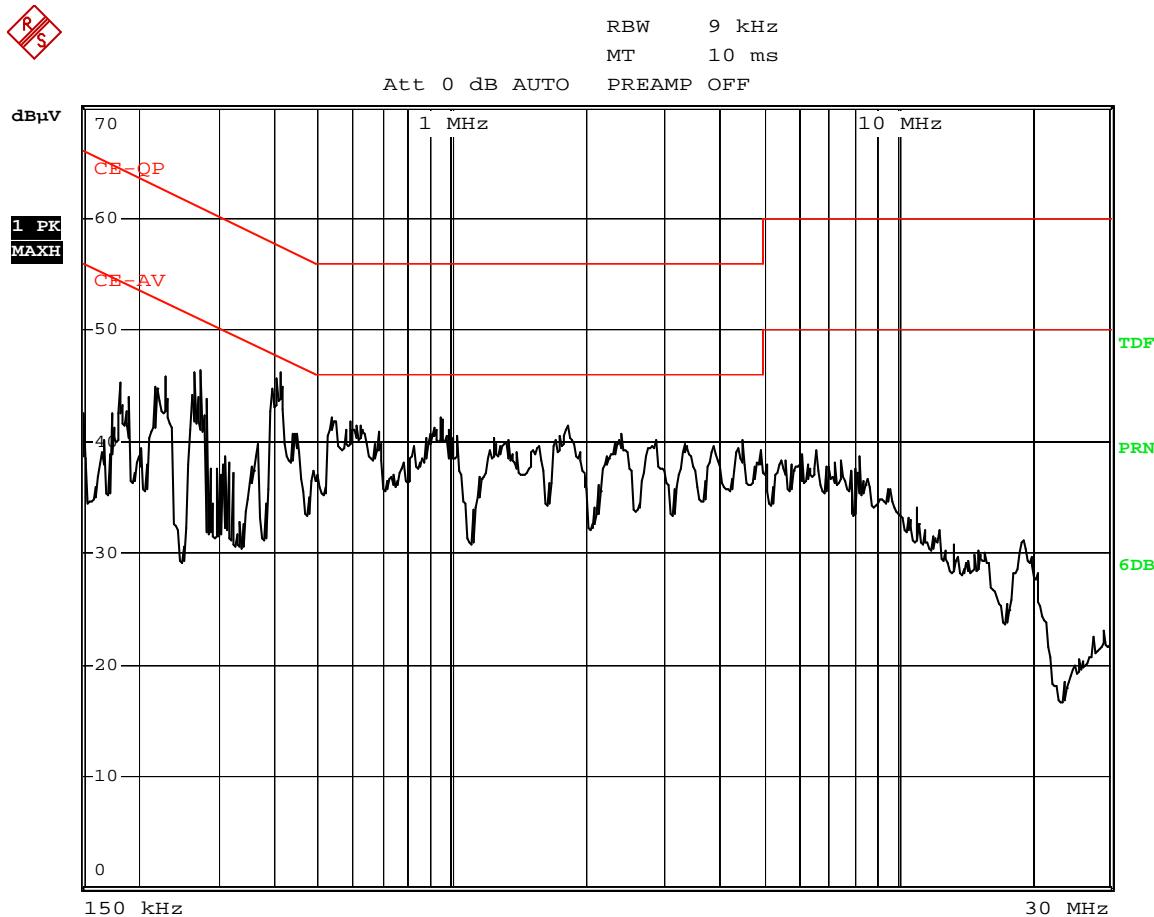


G Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Transmitting at channel 1 under 802.11b mode at 1Mbps

Results: **Pass**

Please refer to following diagram for individual



Date: 18.APR.2007 20:41:36

Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.230	41.75	30.99	--	--	62.40	52.40
0.274	43.37	33.99	--	--	61.10	51.10
0.414	43.11	31.91	--	--	57.60	47.60
0.994	36.97	27.78	--	--	56.00	46.00
2.412	34.64	30.27	--	--	56.00	46.00

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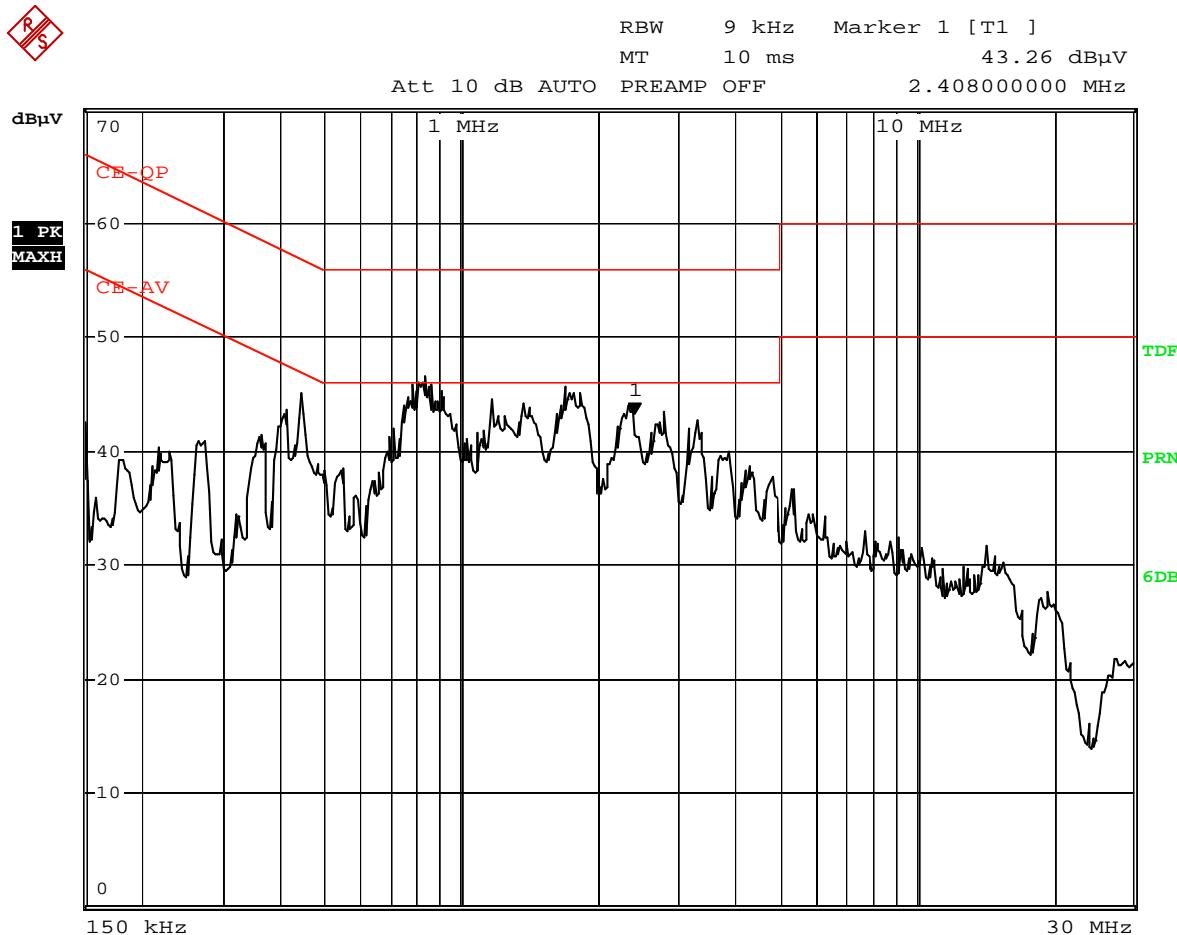


H Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Transmitting at channel 1 under 802.11b mode at 1Mbps

Results: **Pass**

Please refer to following diagram for individual



Date: 18.APR.2007 20:43:53

Frequency (MHz)	Reading(dB μ V)				Limit	
	Live		Neutral		(dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.446	--	--	40.31	31.25	56.90	46.90
0.832	--	--	42.80	33.86	56.00	46.00
1.408	--	--	38.01	30.52	56.00	46.00
1.700	--	--	41.37	32.87	56.00	46.00
2.320	--	--	39.57	31.84	56.00	46.00

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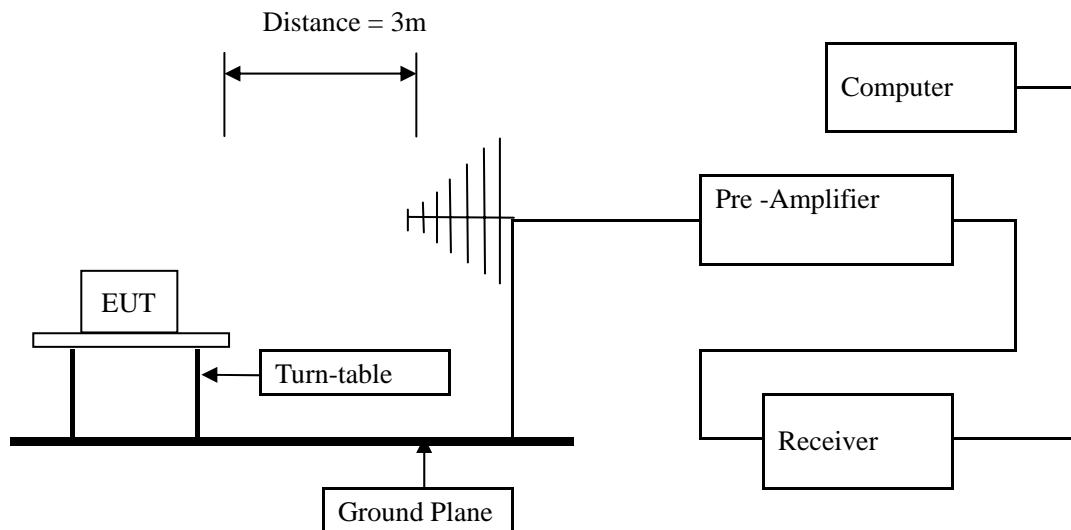


6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 -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)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = $20 \log_{10}$ 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

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Wireless 802.11g mode under CH1 at 6Mbps

Results: **Pass**

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
32.4250	27.57	H	40.00
61.5618	27.60	H	40.00
68.800	27.97	H	40.00
83.350	27.08	H	43.50
168.225	23.69	H	43.50
434.975	32.43	H	46.00
67.036	39.16	V	40.00
74.112	37.87	V	40.00
90.625	35.23	V	43.50
83.35	35.02	V	43.50
97.90	34.85	V	43.50

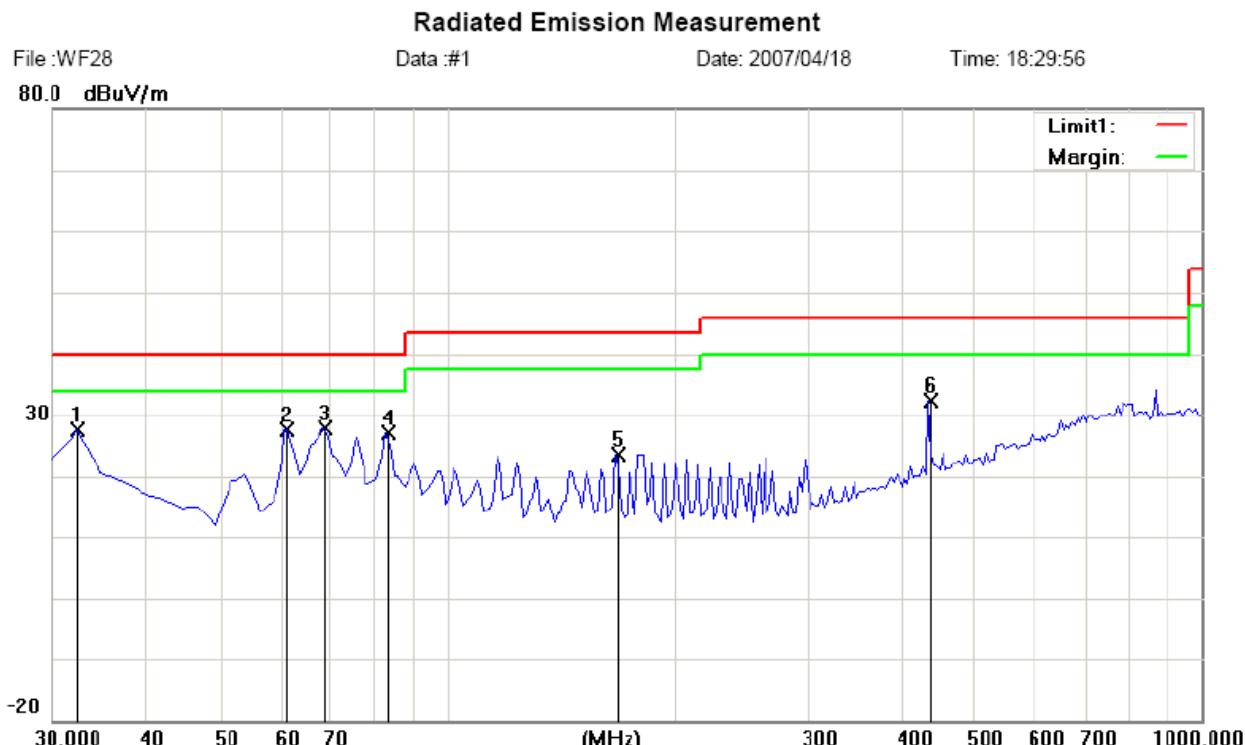
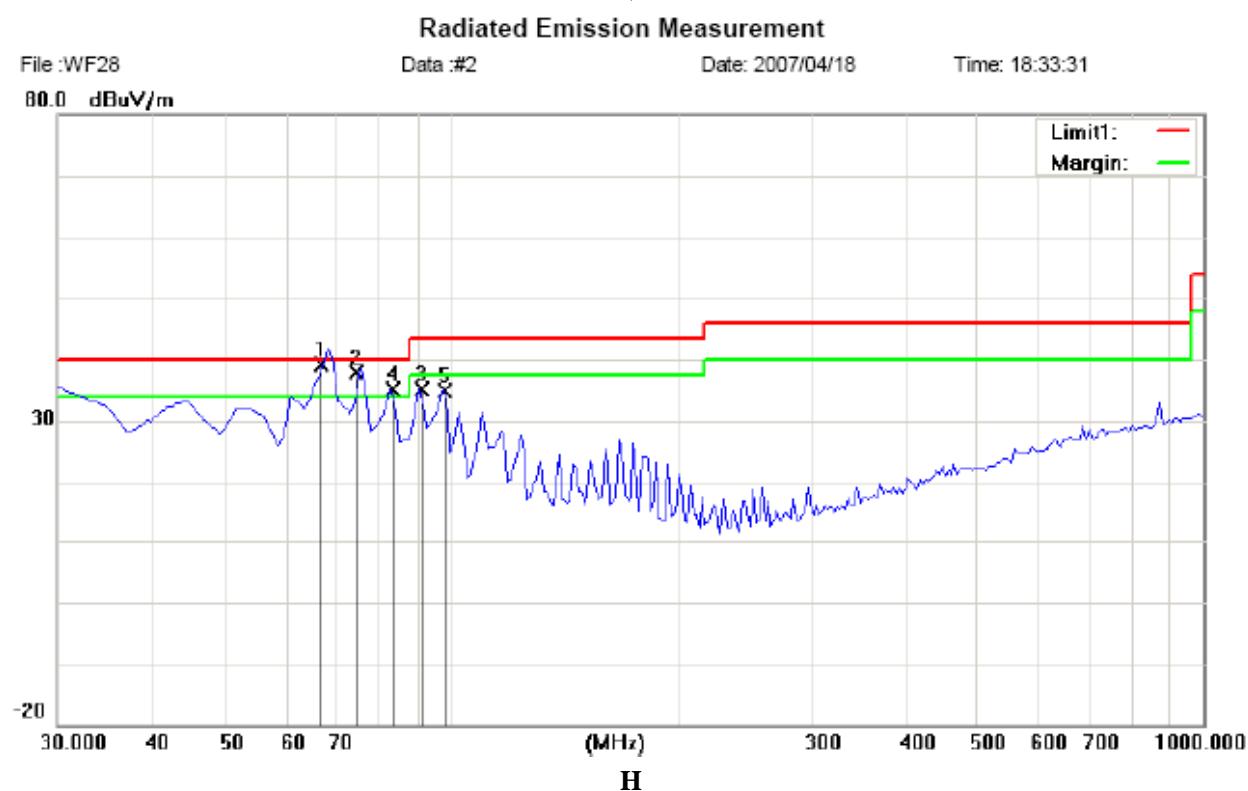
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Test Figure: CH1 at 6Mbps



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EUT set Condition: Wireless 802.11b mode under CH1 at 1Mbps

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
68.7999	31.63	H	40.00
76.0750	27.37	H	40.00
83.3499	27.48	H	43.50
146.4000	27.74	H	43.50
180.3499	28.62	H	43.50
67.0429	39.51	V	40.00
74.0940	39.05	V	40.00
83.3499	37.77	V	43.50
90.6250	34.97	V	43.50
97.9000	35.45	V	43.50

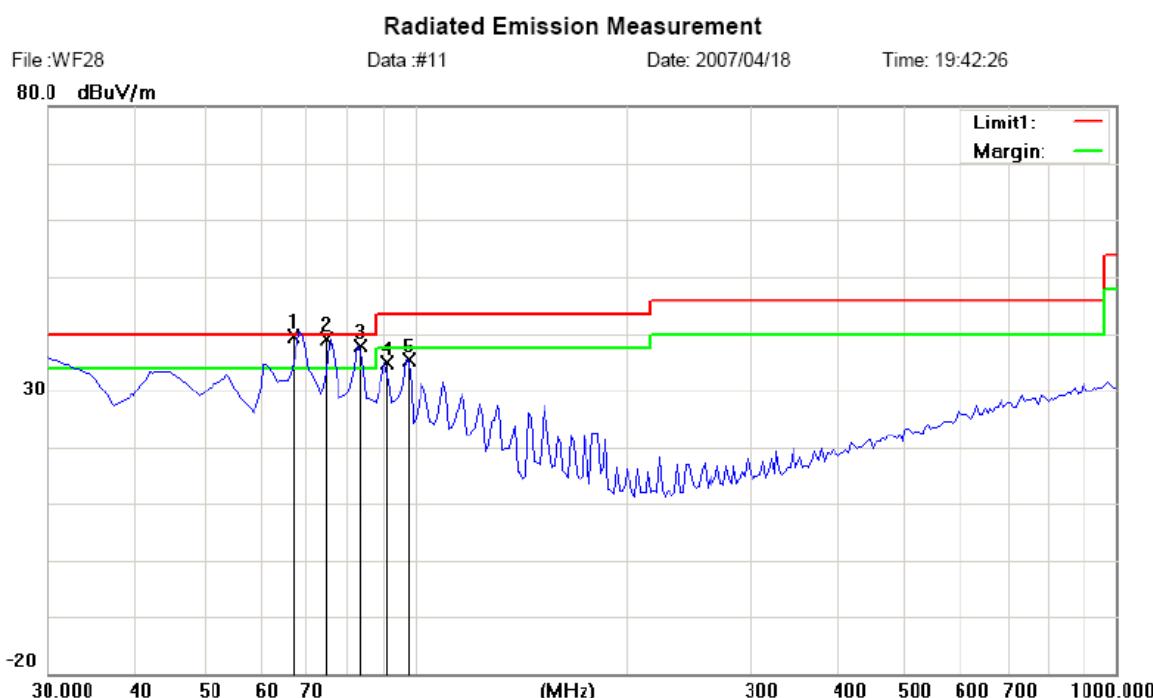
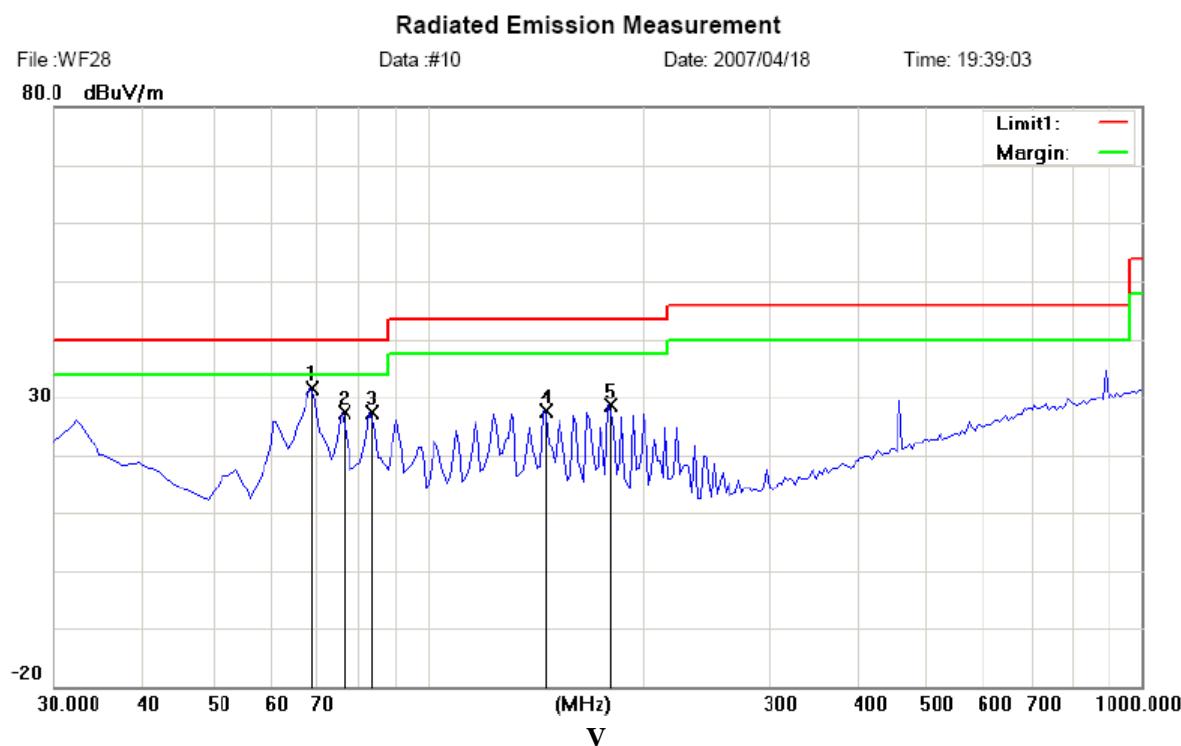
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Test Figure: CH11 at 1Mbps



Note: 1. Emission level (dB μ V/m) = Antenna Factor (dB/m) + Cable loss (dB) + Meter Reading (dB μ V).

2. According to technical experiences, all spurious emission at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representation for the test.

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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	93.3 (PK) /84.7 (AV)	V	Fundamental Frequency
2412.00	93.2 (PK) /85.5 (AV)	H	
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 802.11g 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	95.4 (PK) /87.6 (AV)	H	Fundamental Frequency
2437.00	94.5 (PK) /86.7 (AV)	V	
4874.00	--	H/V	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	96.4 (PK) /88.7 (AV)	H	Fundamental Frequency
2462.00	94.8 (PK) /86.9 (AV)	V	
4924	--	H/V	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 802.11g mode at 6Mbps

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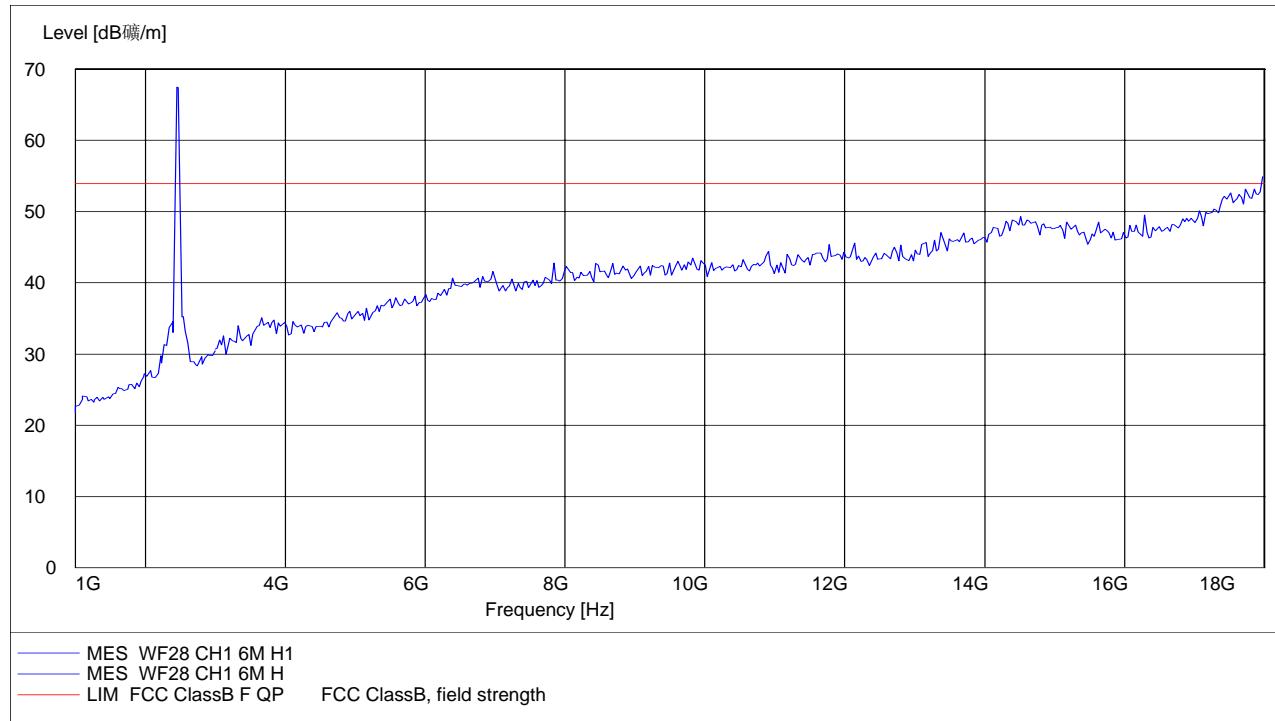
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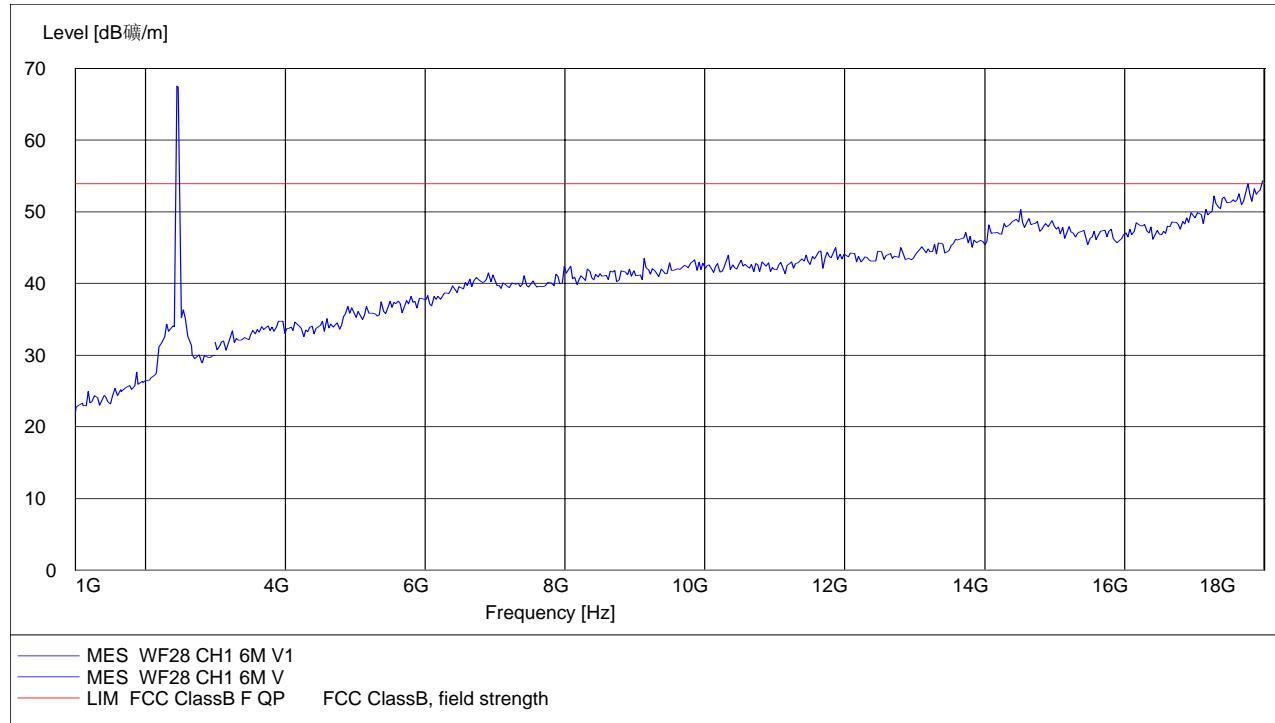


Please refer to the following test plots for details:

CH01 at 6Mbps: Horizontal



CH01 at 6Mbps: Vertical



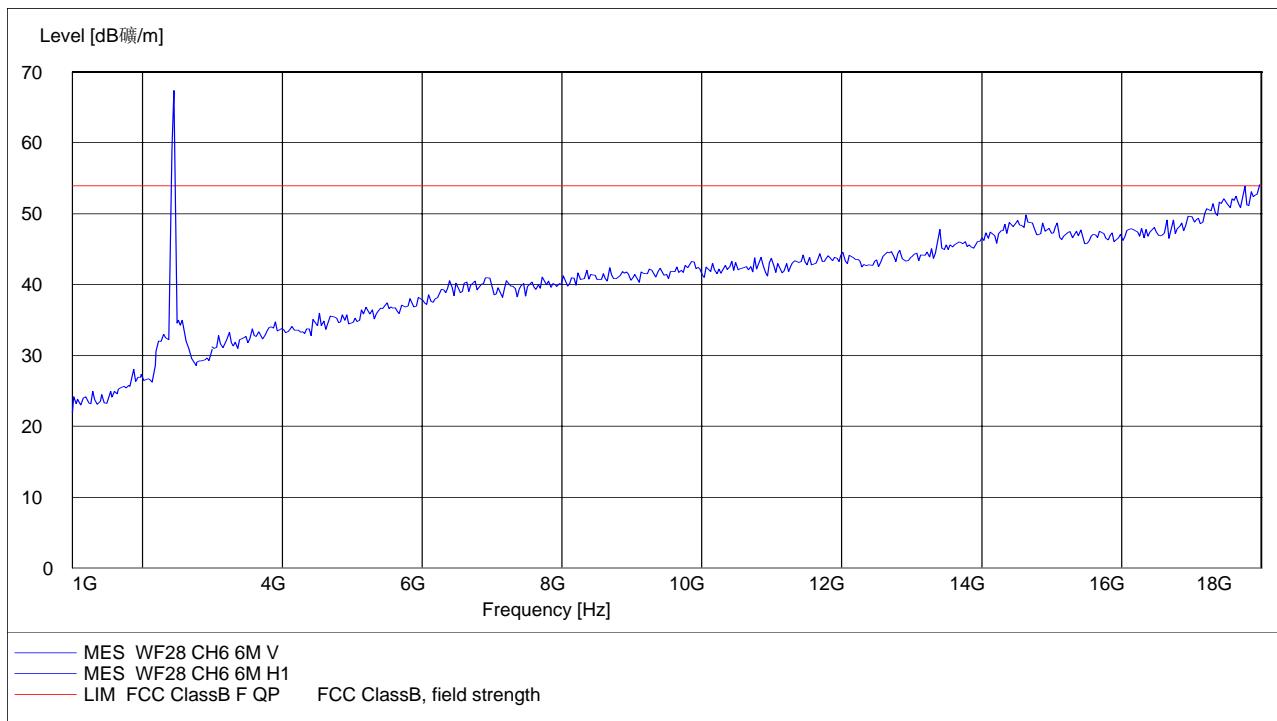
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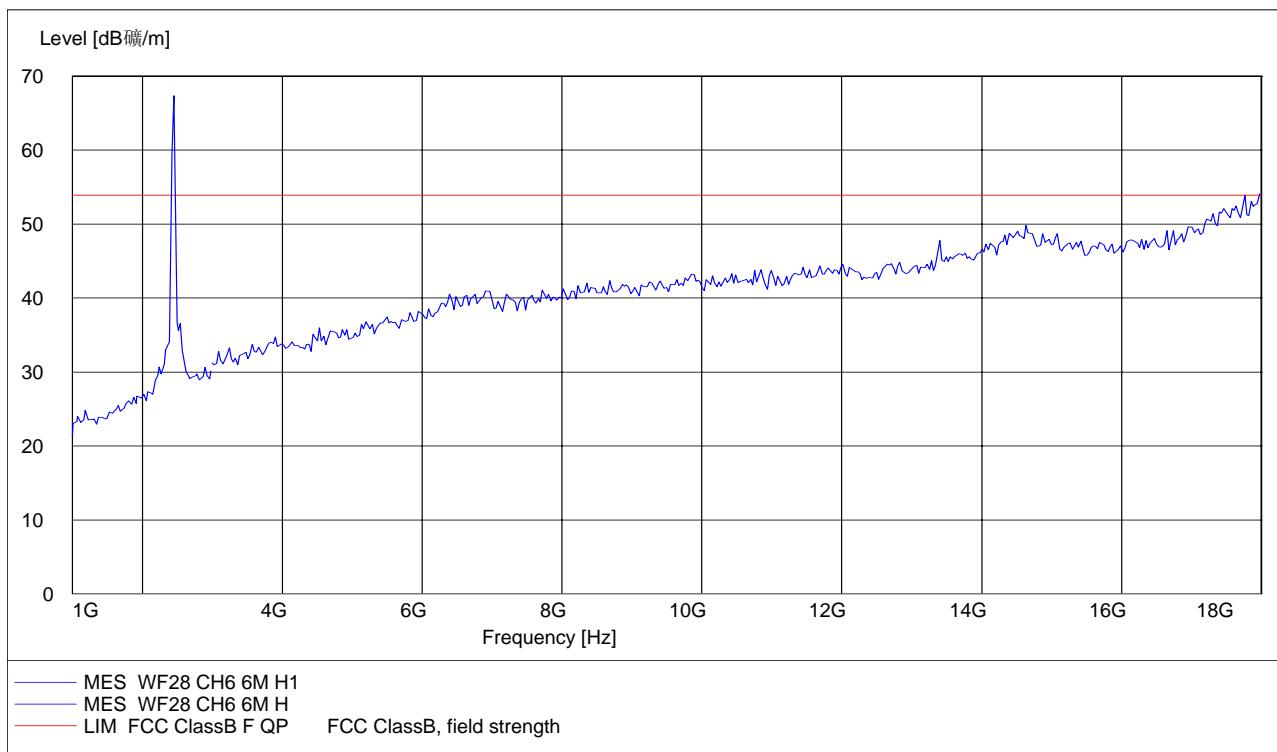
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CH06 at 6Mbps: Vertical



CH06 at 6Mbps: Horizontal



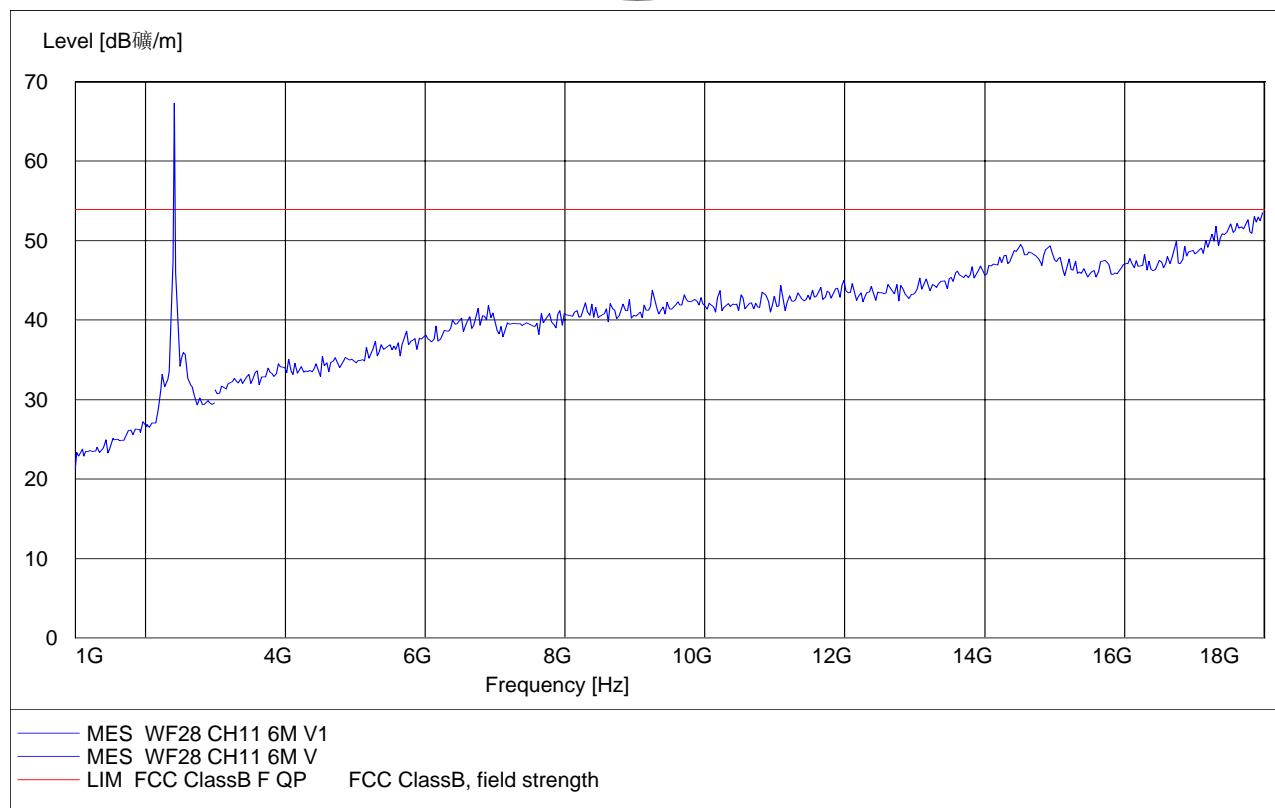
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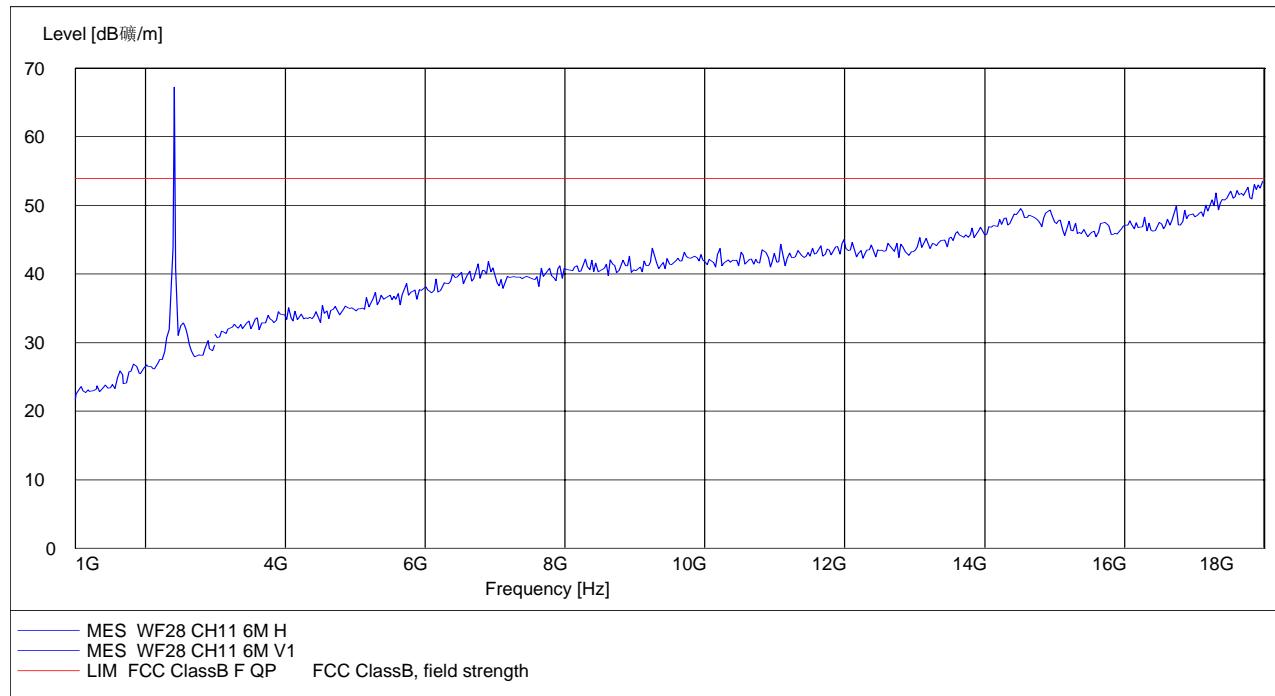
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CH11 at 6Mbps: Vertical



CH11 at 6Mbps: Horizontal



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Operation Mode: Transmitting & Receiving under CH01 at 1Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	92.8 (PK)/ 89.3(AV)	H	Fundamental Frequency
2412.00	93.8 (PK)/90.5 (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 1Mbps

Operation Mode: Transmitting & Receiving under CH06 at 1Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	93.2 (PK)/ 90.5 (AV)	H	Fundamental Frequency
2437.00	94.4(PK)/ 90.5 (AV)	V	
4874.00	--	H/V	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 1Mbps

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Operation Mode: Transmitting & Receiving under CH11 at 1Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	96.8 (PK) /93.2(AV)	H	Fundamental Frequency
2462.00	95.2 (PK) /91.5 (AV)	V	
4924	--	H/V	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 1Mbps

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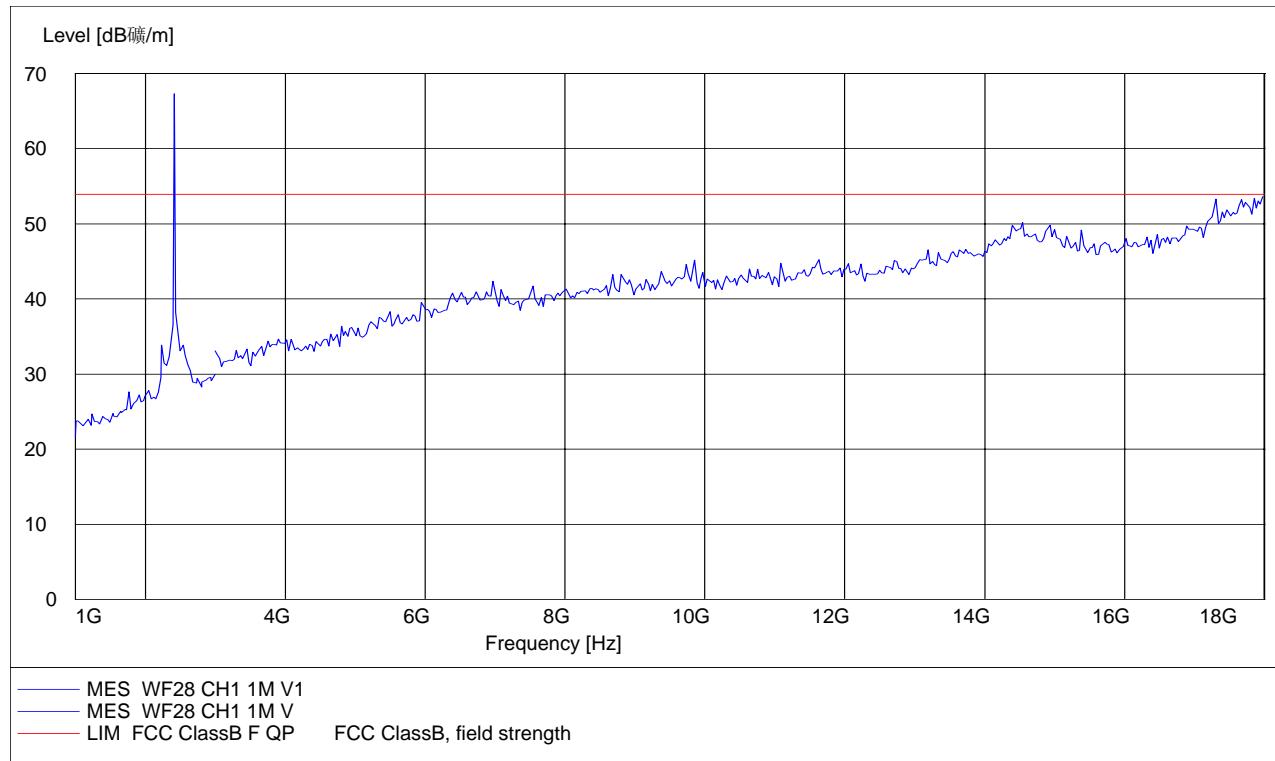
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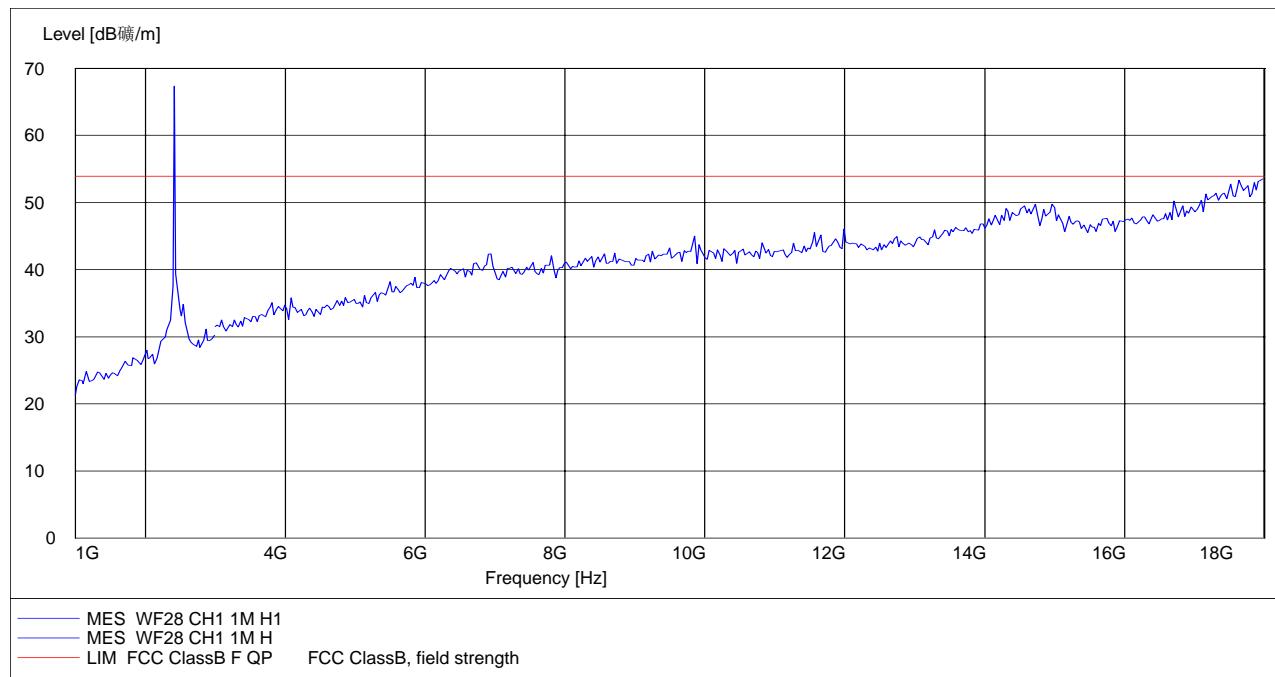


Please refer to the following test plots for details:

CH01 at 1Mbps: Vertical



CH01 at 1Mbps: Horizontal



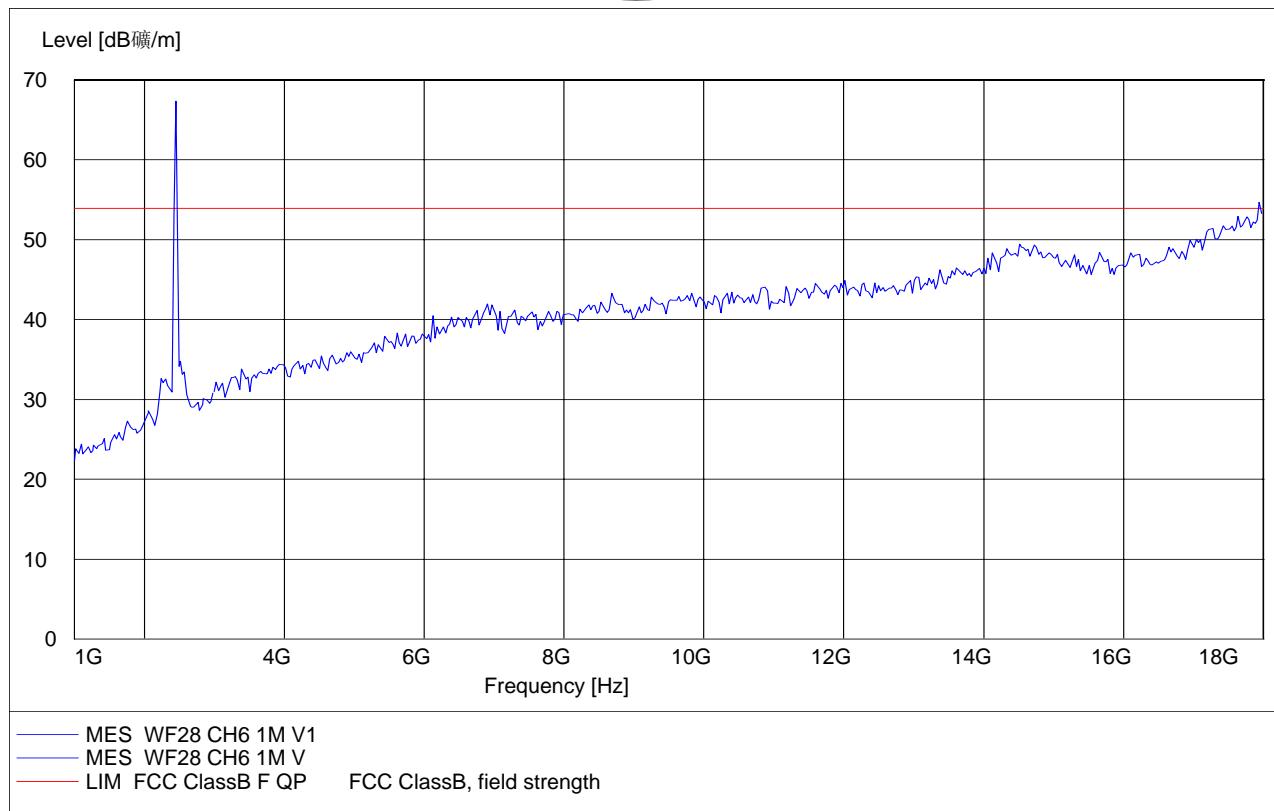
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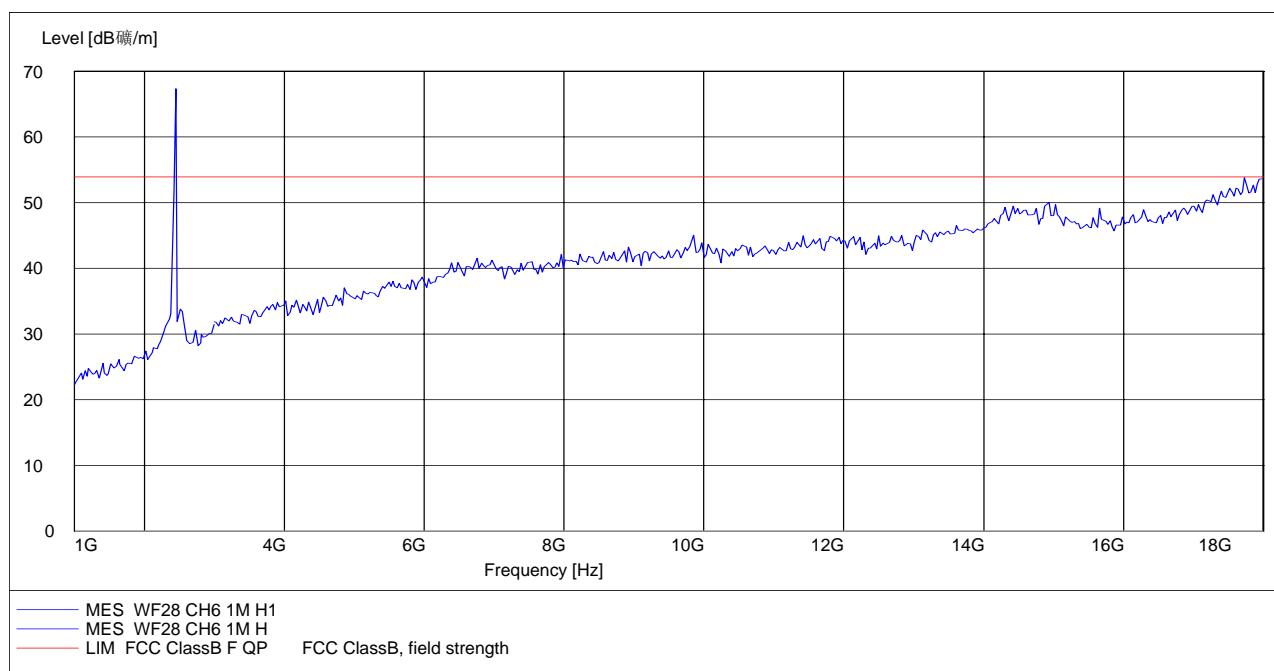
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CH06 at 1Mbps: Vertical



CH06 at 11Mbps: Horizontal



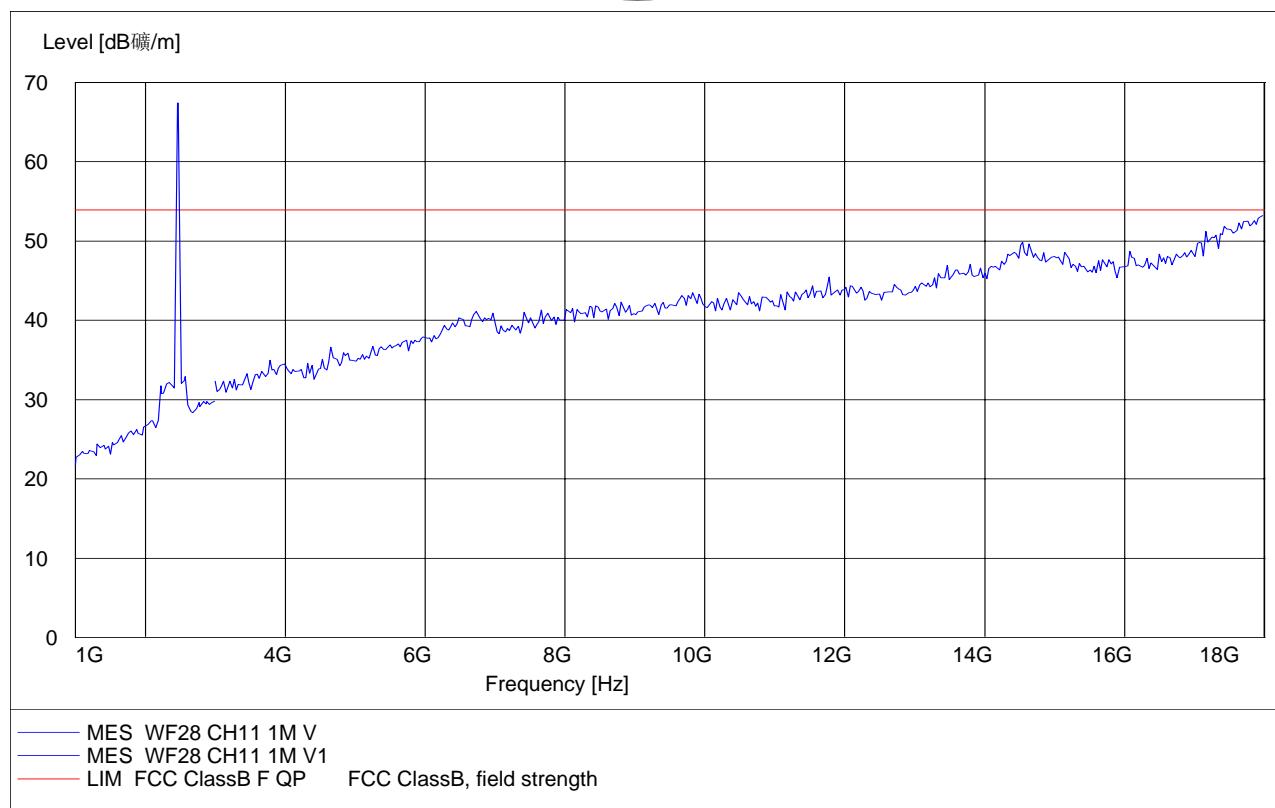
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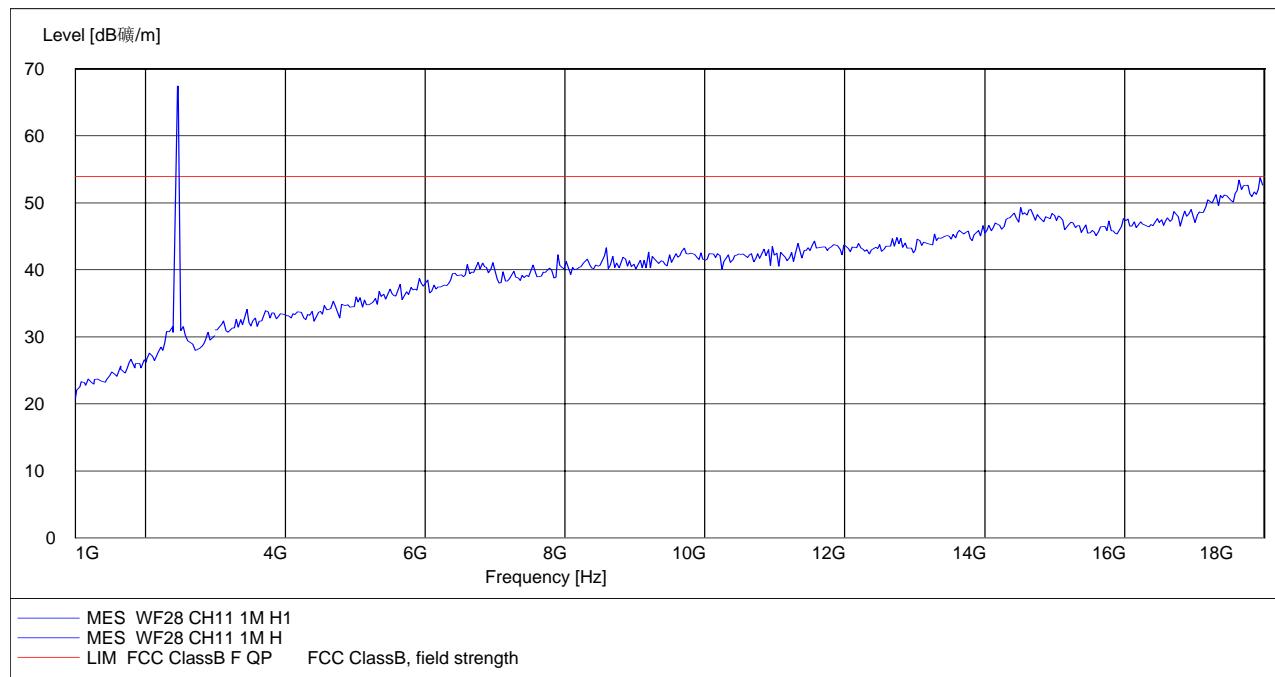
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CH11 at 1Mbps: Vertical



CH11 at 11Mbps: Horizontal



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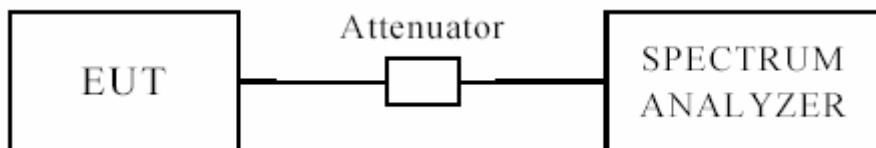
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500KHz

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		PDA with WiFi 802.11b/g		Model	
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	8.48	0.5	Pass
		11	7.88		
6	2437	1	8.20	0.5	Pass
		11	8.40		
11	2462	1	8.28	0.5	Pass
		11	7.88		

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

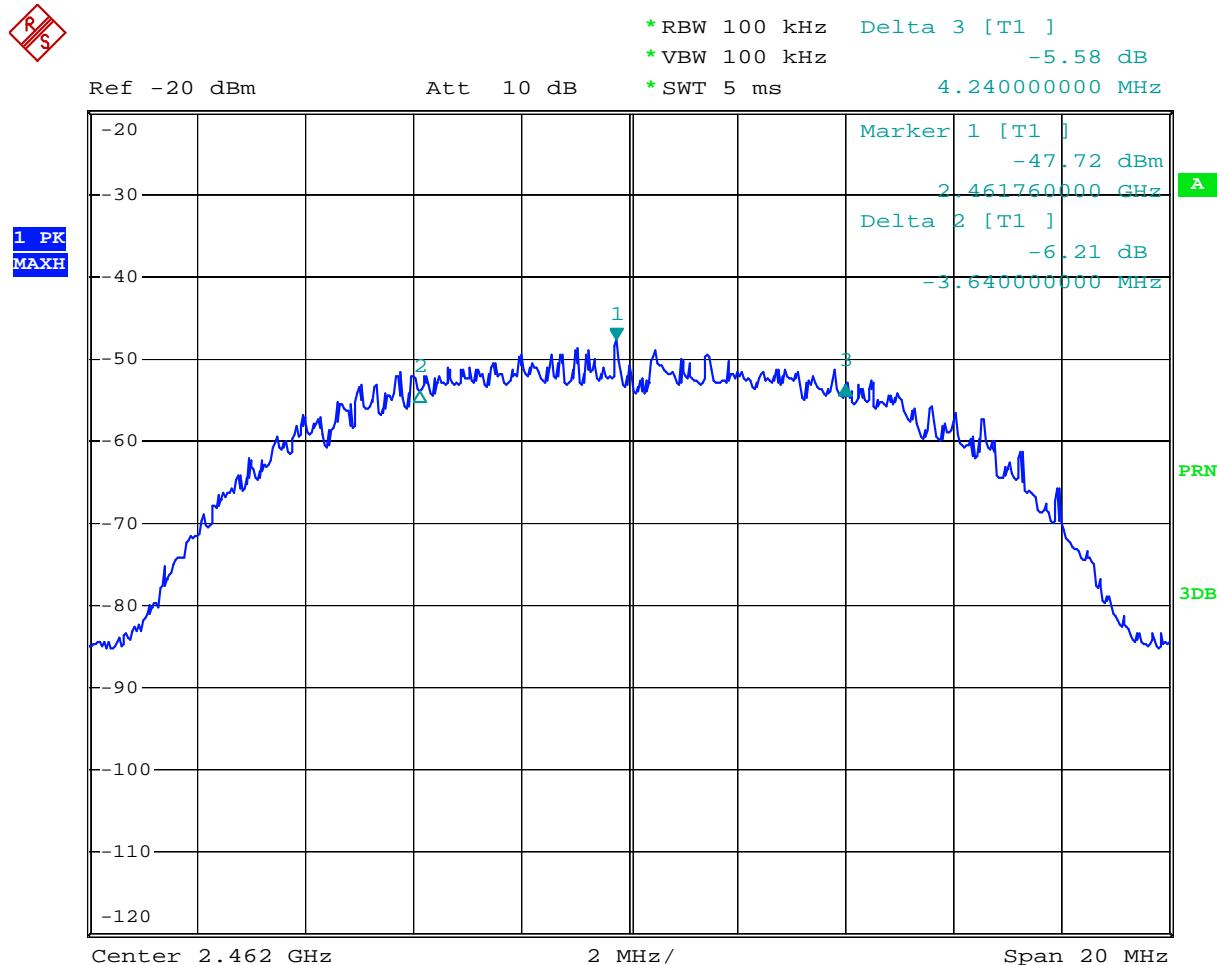
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Test Figure:

1. Condition: 802.11b at 11Mbps of CH01



Date: 26.MAR.2007 13:43:49

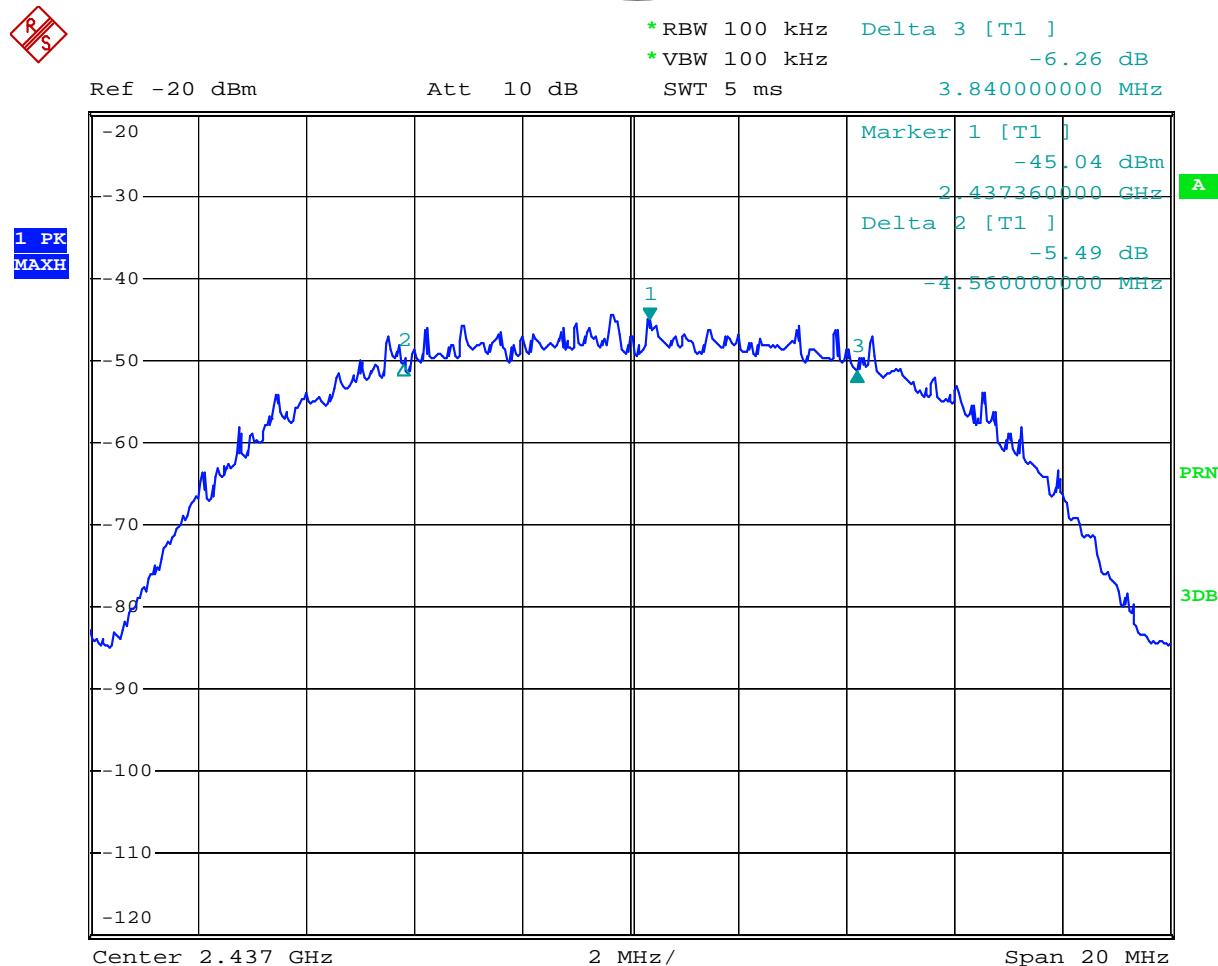
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2. Condition: 802.11b at 11Mbps of CH06



Date: 26.MAR.2007 15:52:32

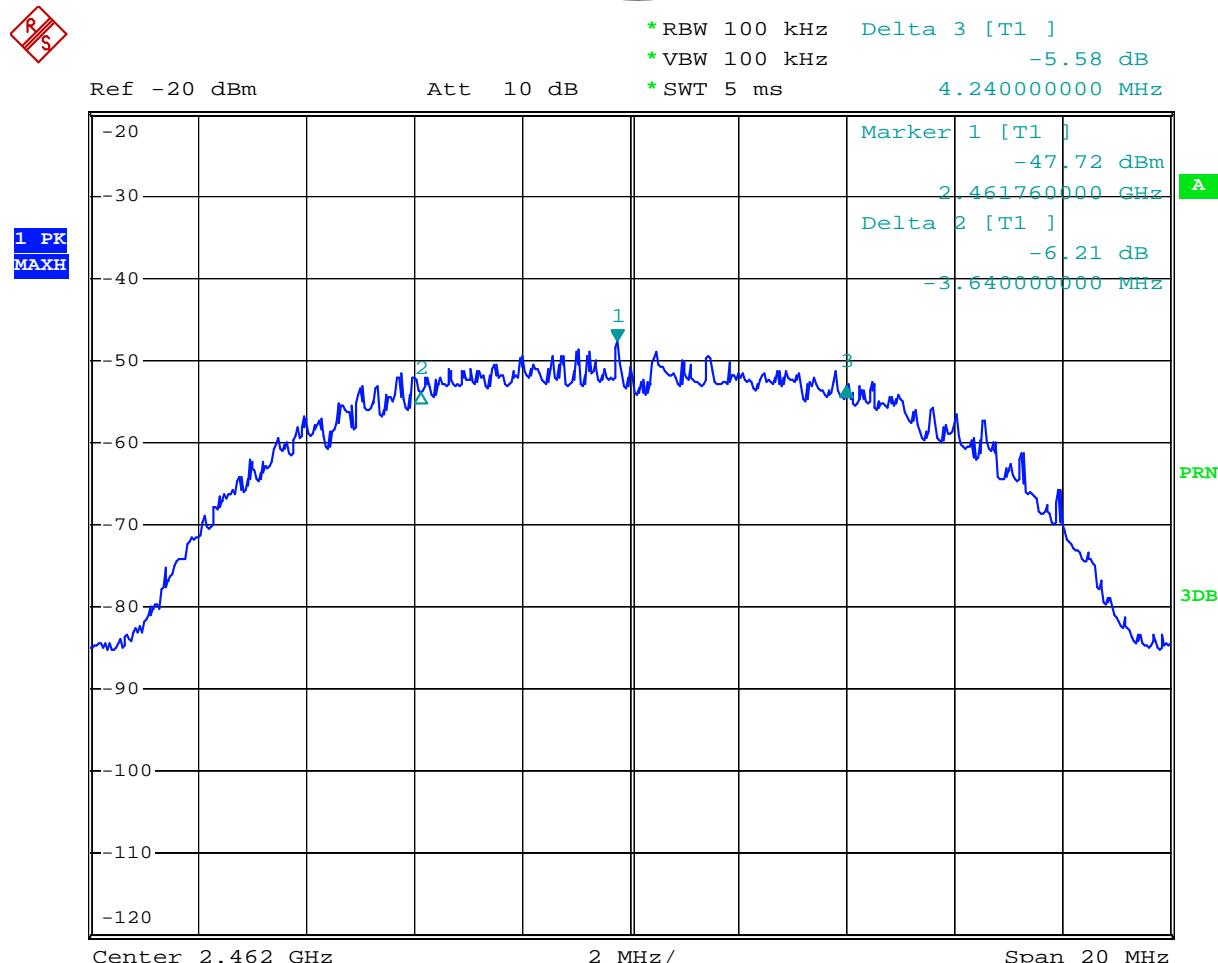
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3. 802.11b at 11Mbps of CH11



Date: 26.MAR.2007 13:43:49

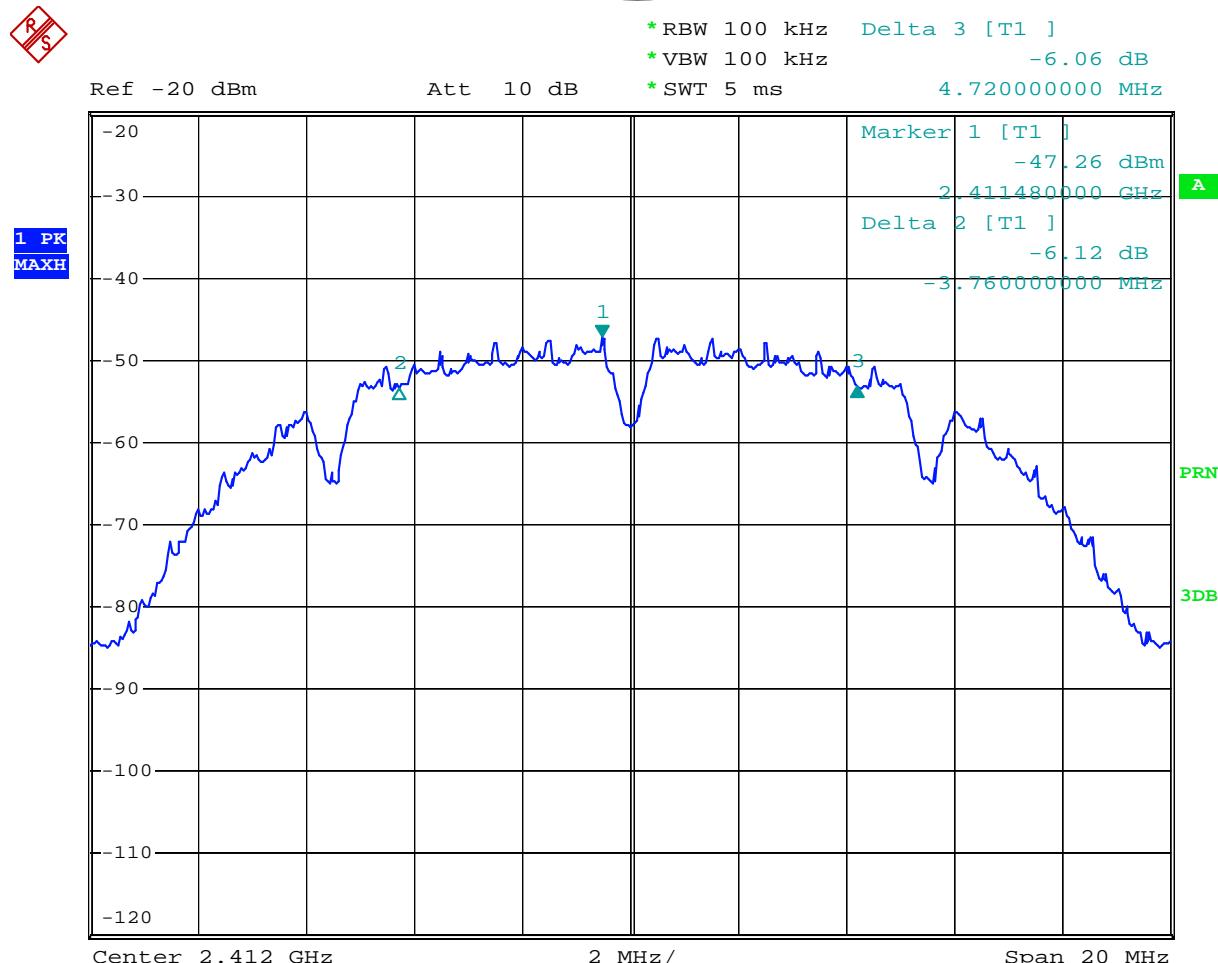
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4. 802.11b at 1Mbps of CH01



Date: 26.MAR.2007 13:12:27

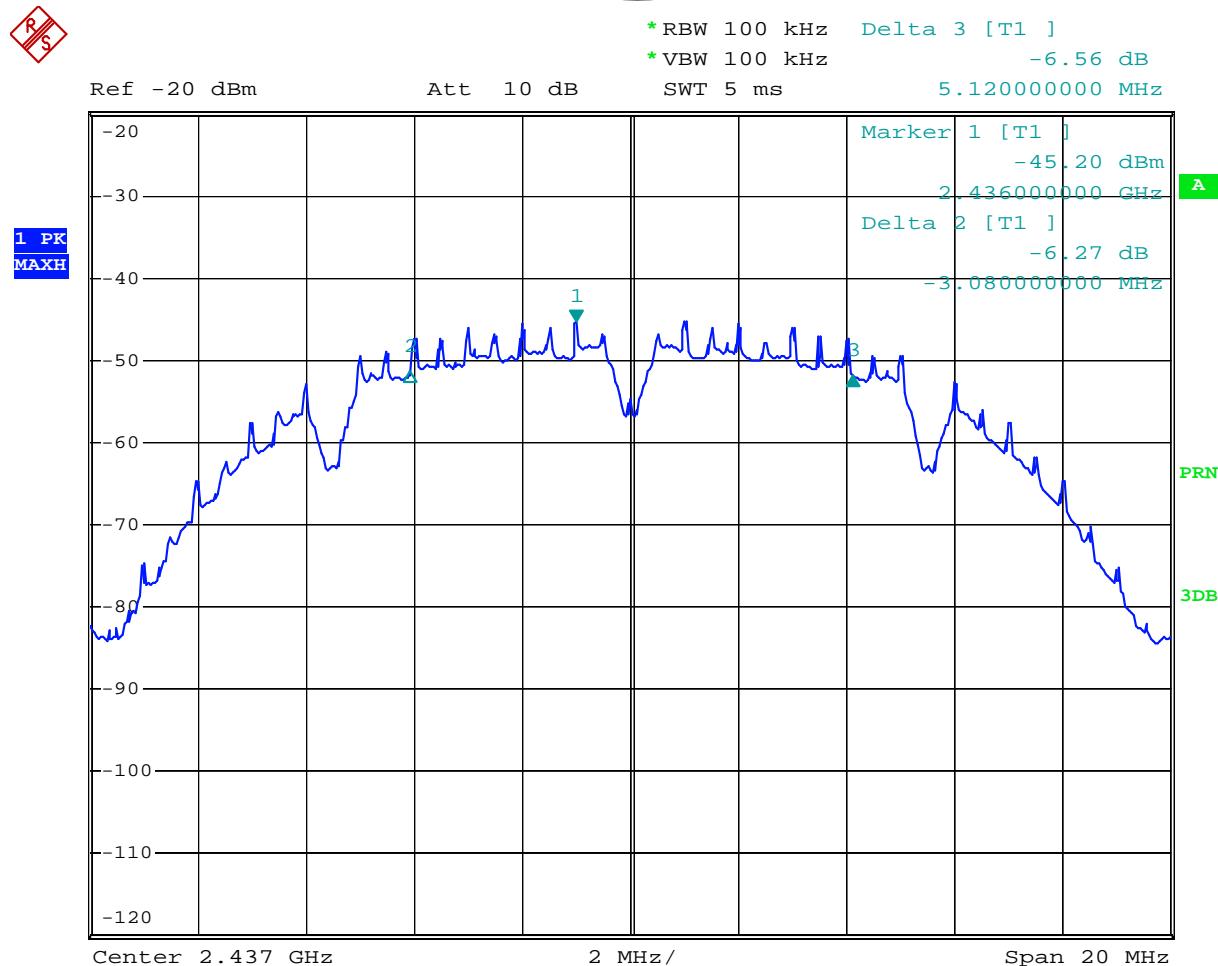
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5. 802.11b at 1Mbps of CH06



Date: 26.MAR.2007 15:49:04

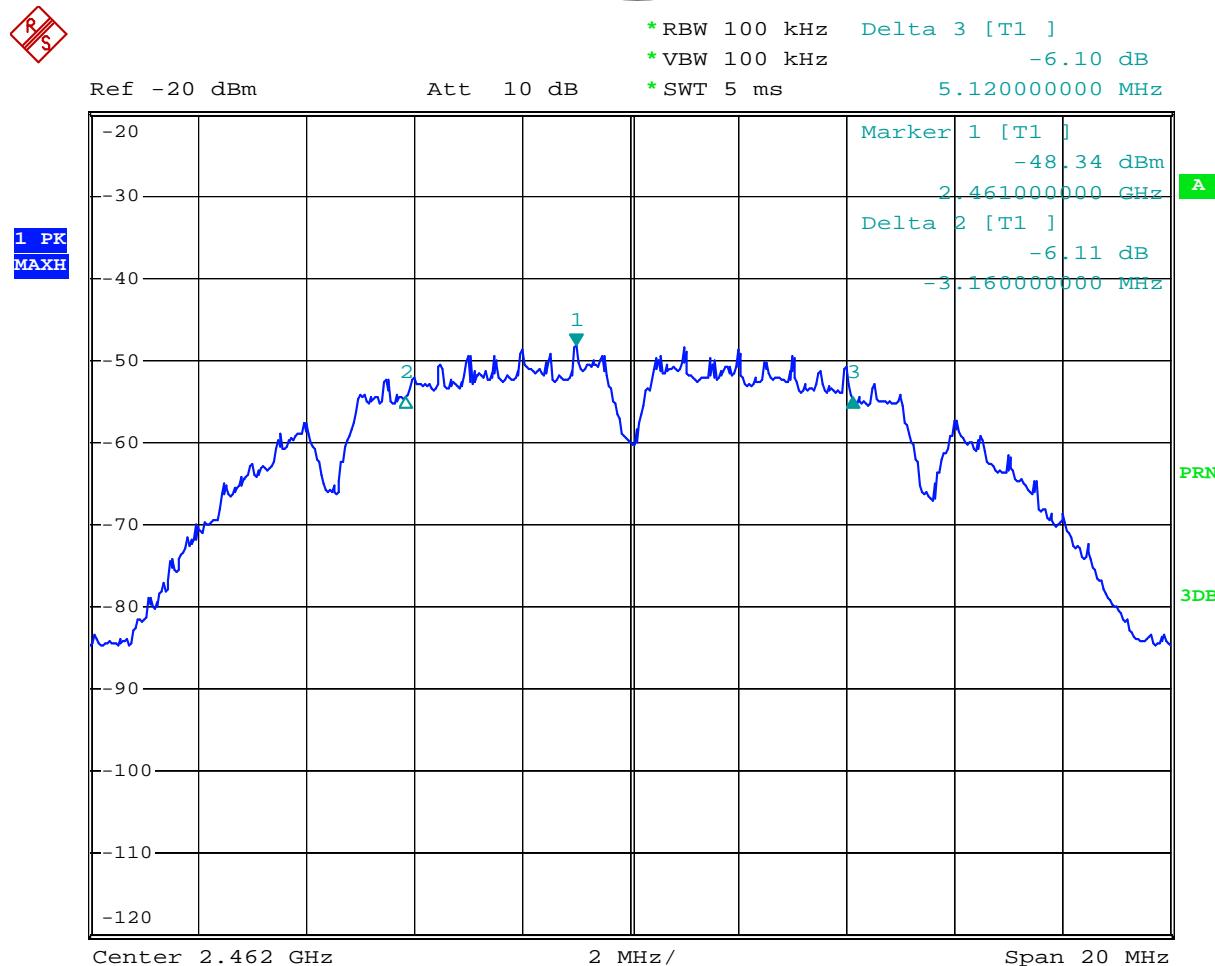
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6. 802.11b at 1Mbps of CH11



Date: 26.MAR.2007 13:40:19

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EUT	PDA with WiFi 802.11b/g		Model		WF28	
Mode	802.11g		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	16.64	0.5	Pass	
		54	16.40			
6	2437	6	16.44	0.5	Pass	
		54	16.56			
11	2462	6	16.32	0.5	Pass	
		54	16.24			

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

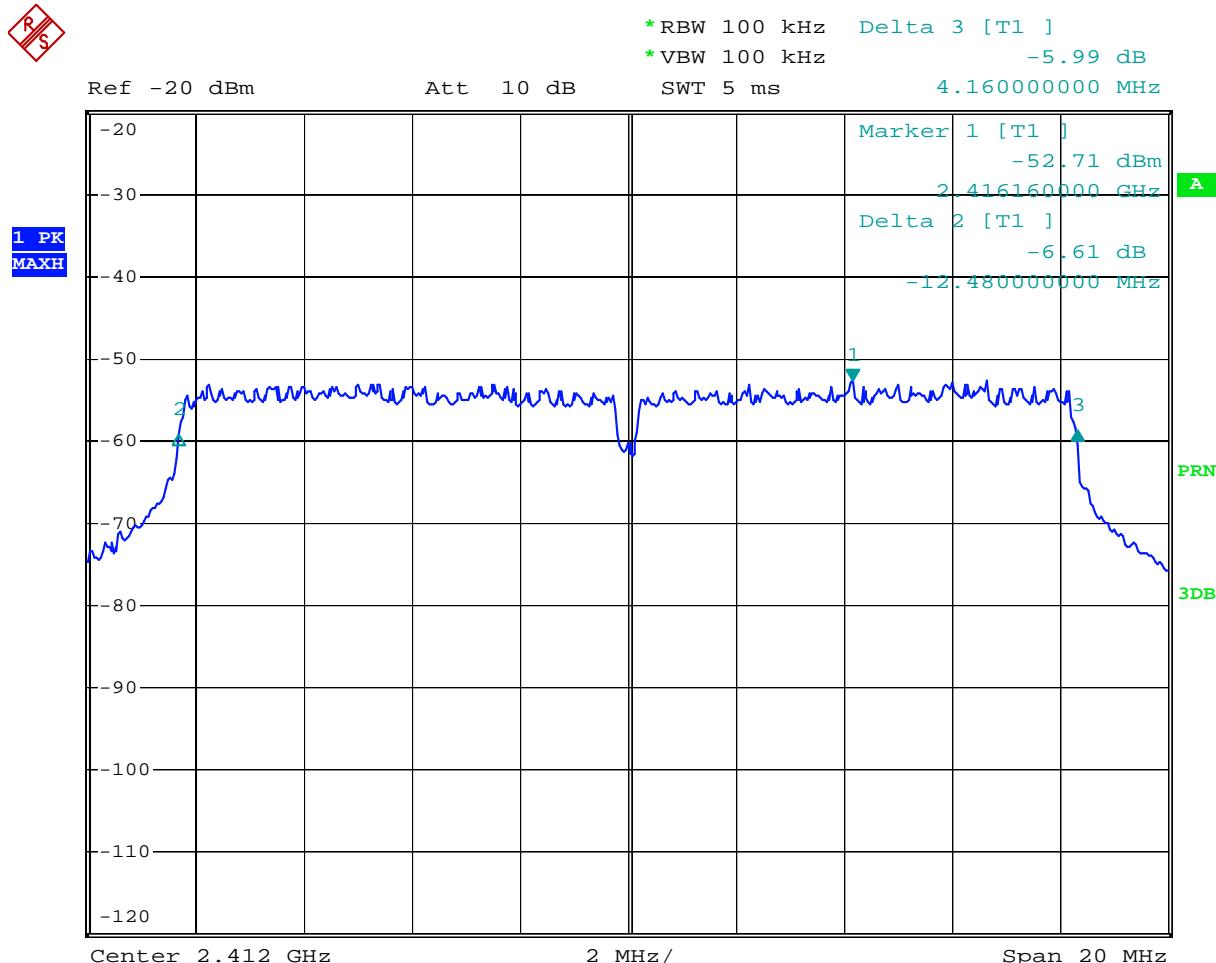
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Test Plots:

1. 802.11g at 6Mbps of CH01



Date: 21.APR.2007 16:11:58

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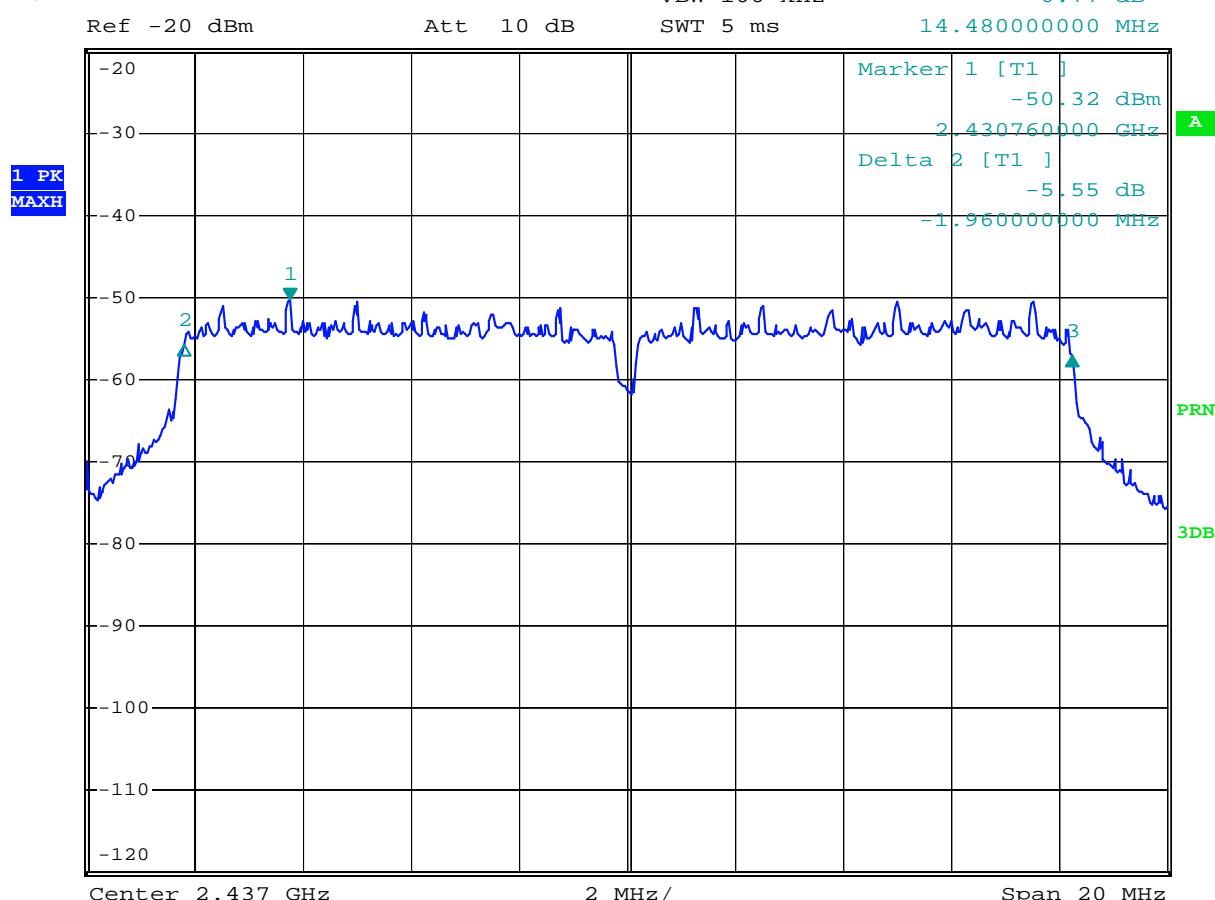
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2. 802.11g at 6Mbps of CH06

R
S



Date: 26.MAR.2007 16:09:09

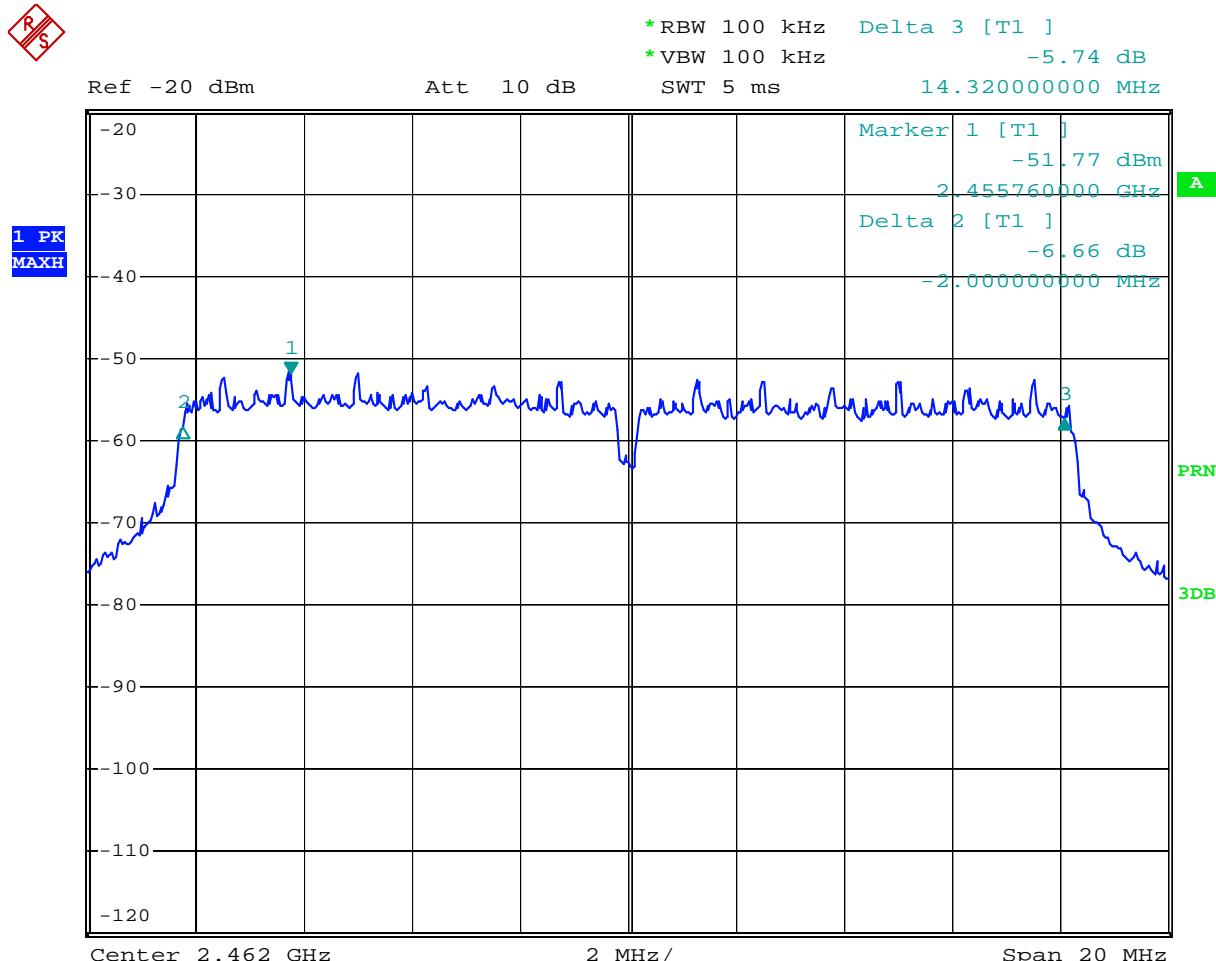
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3. 802.11g at 6Mbps of CH11



Date: 26.MAR.2007 16:18:03

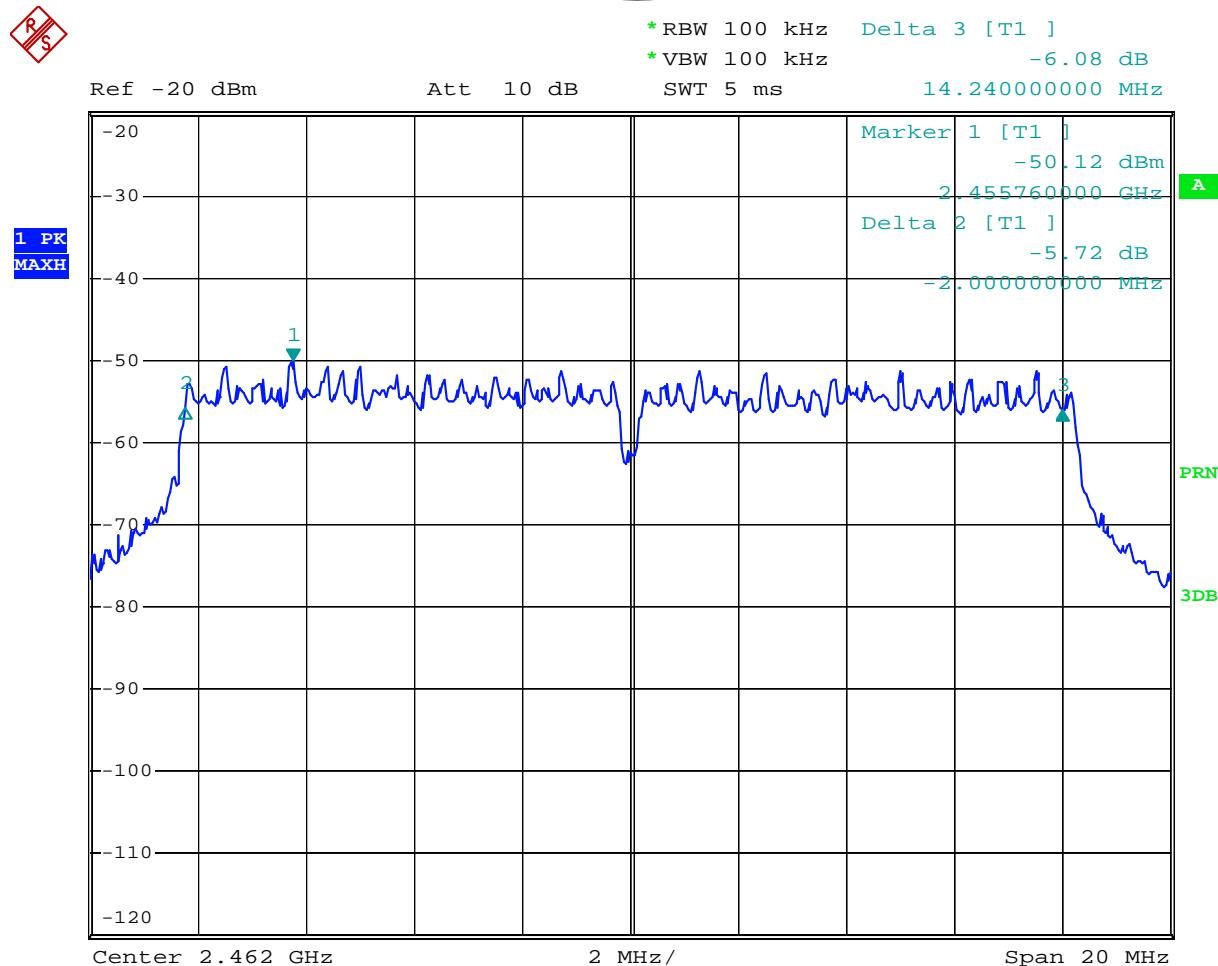
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4. 802.11g at 54Mbps of CH11



Date: 26.MAR.2007 16:15:04

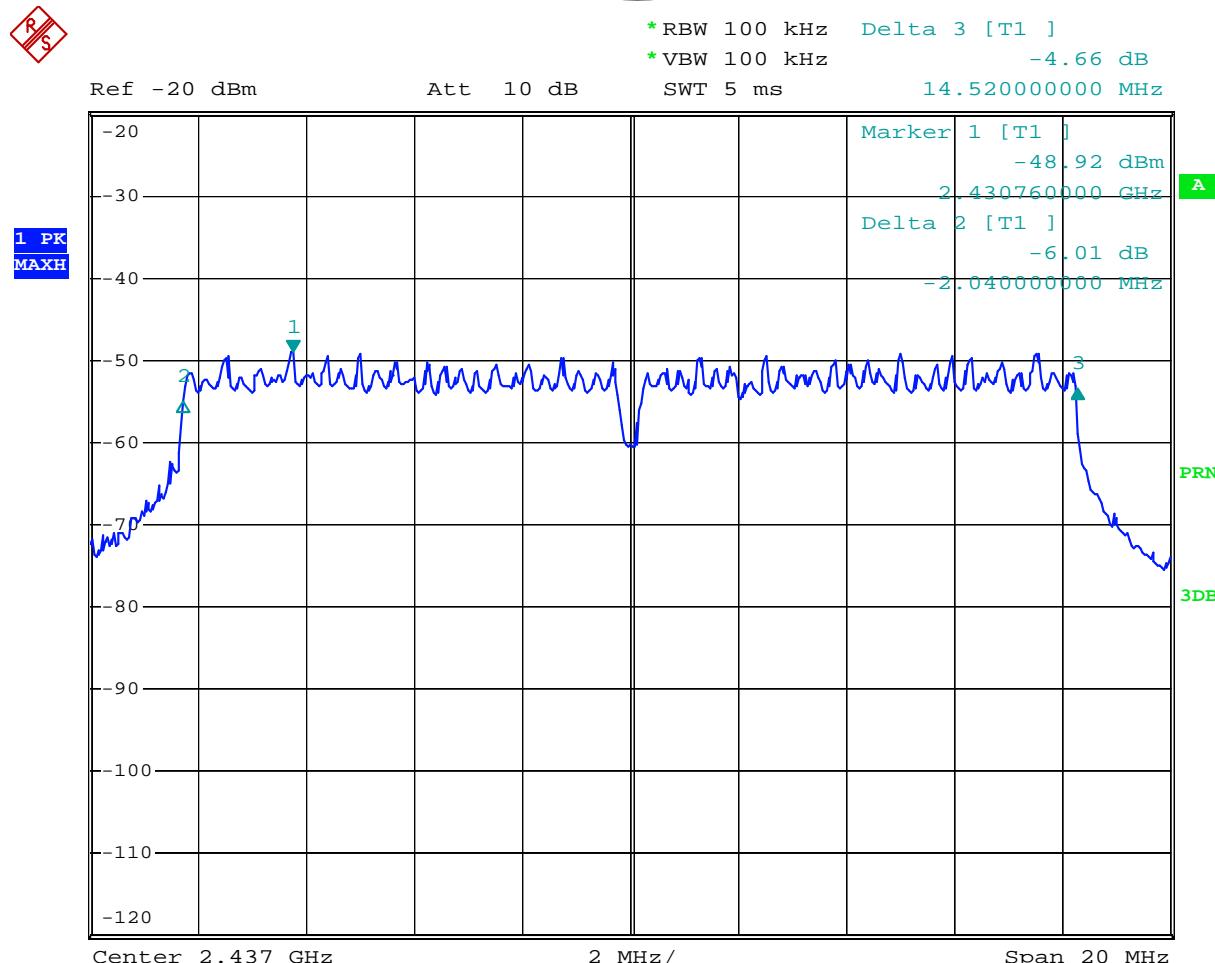
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5. 802.11g at 54Mbps of CH06



Date: 26.MAR.2007 16:12:53

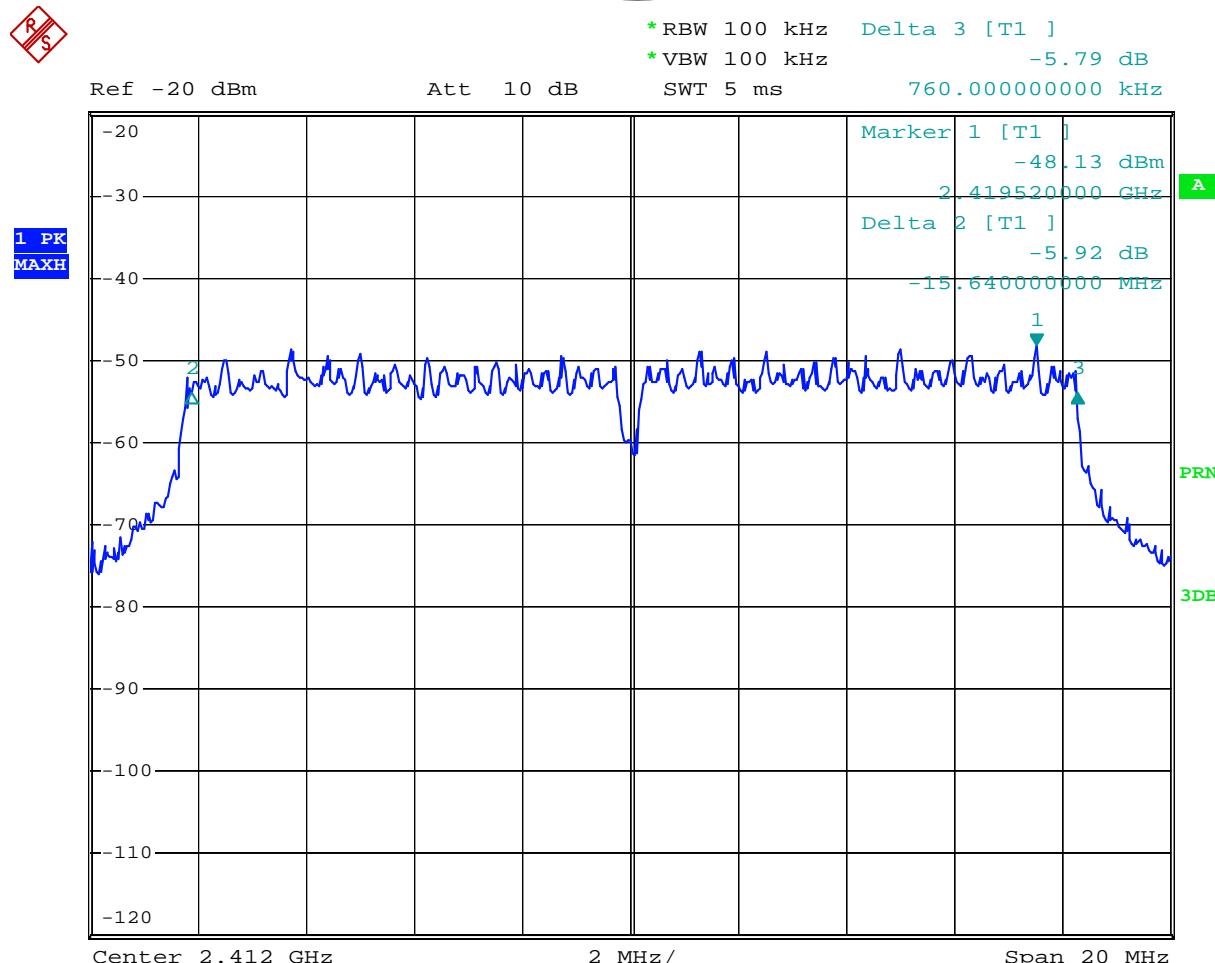
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6. 802.11g at 54Mbps of CH01



Date: 26.MAR.2007 16:01:59

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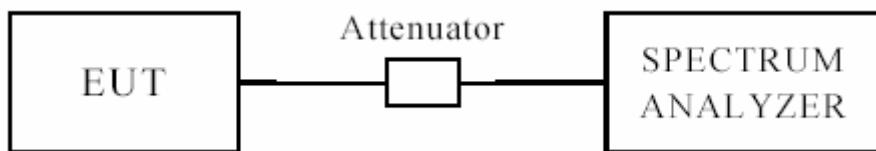
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8. Maximum Peak Output Power

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		PDA with WiFi 802.11b/g	Model	WF28
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)	Pass/ Fail
1	2412	4.5	30	Pass
6	2437	8.8	30	Pass
11	2462	9.1	30	Pass

Note: 1. At final test to get the worst-case emission at 1Mbps 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		PDA with WiFi 802.11b/g	Model	WF28
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)	Pass/ Fail
1	2412	2.1	30	Pass
6	2437	2.9	30	Pass
11	2462	5.7	30	Pass

Note: 1. At final test to get the worst-case emission at 6Mbps for 1Mbps for CH01, CH06 and CH11
2. The result basic equation calculation as follow:

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

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

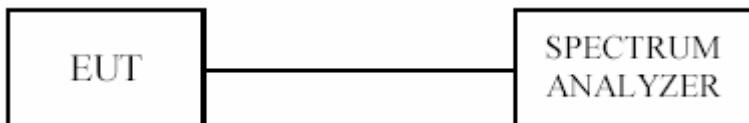
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9. Power Spectral Density Measurement

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=500ms

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		PDA with WiFi 802.11b/g	Model	WF28
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	-51.71	8	Pass
6	2437	-54.58	8	Pass
11	2462	-61.15	8	Pass

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

EUT		PDA with WiFi 802.11b/g	Model	WF28
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	-67.66	8	Pass
6	2437	-69.77	8	Pass
11	2462	-65.26	8	Pass

Note: For 802.11g mode at final test to get the worst-case emission at 6Mbps for CH11, CH06 and CH01

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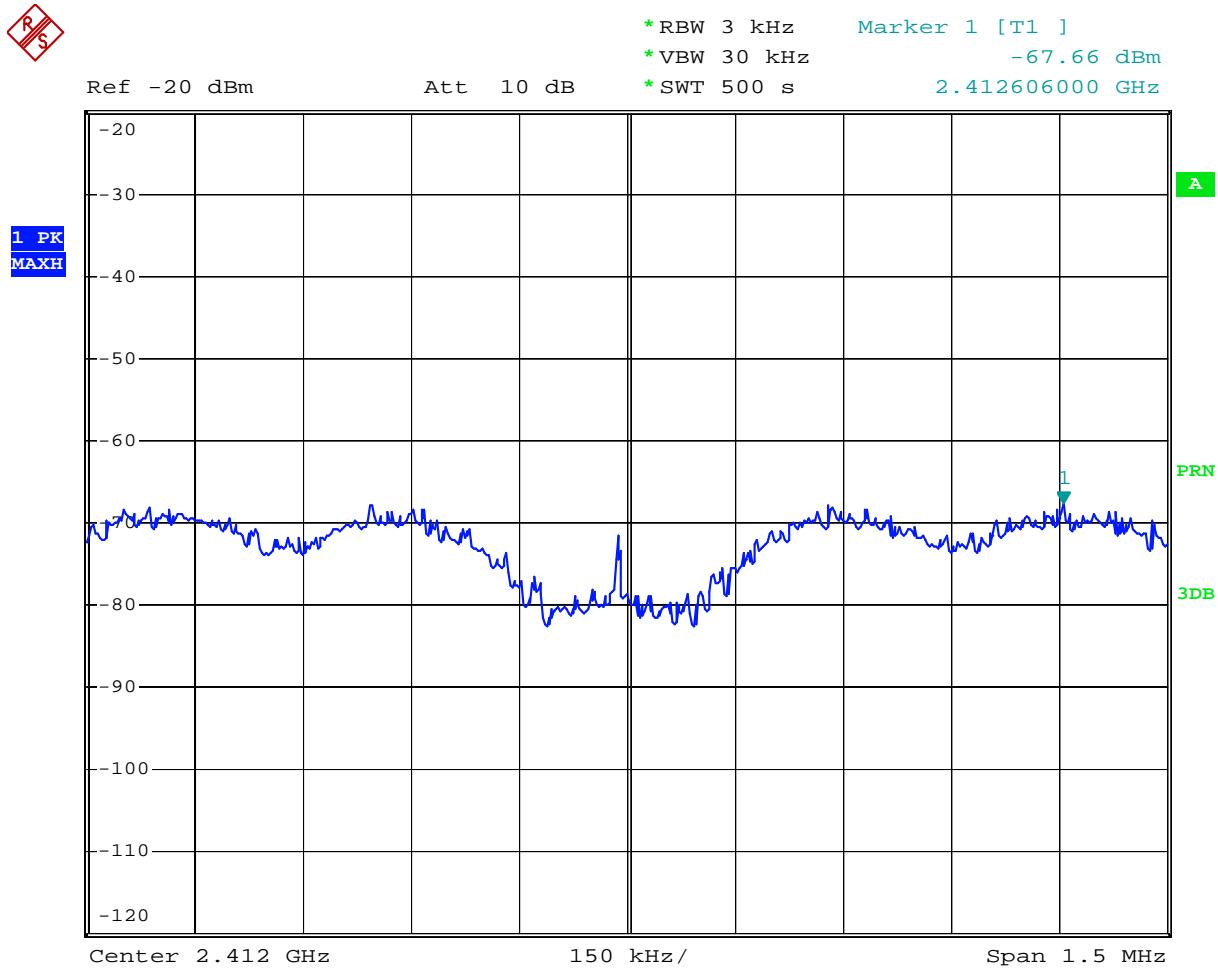
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9.5 Photo of Power Spectral Density Measurement

1.802.11g at 6Mbps of CH01



Date: 26.MAR.2007 20:00:44

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2. 802.11g at 6Mbps at CH06

R
S



Date: 26.MAR.2007 17:38:13

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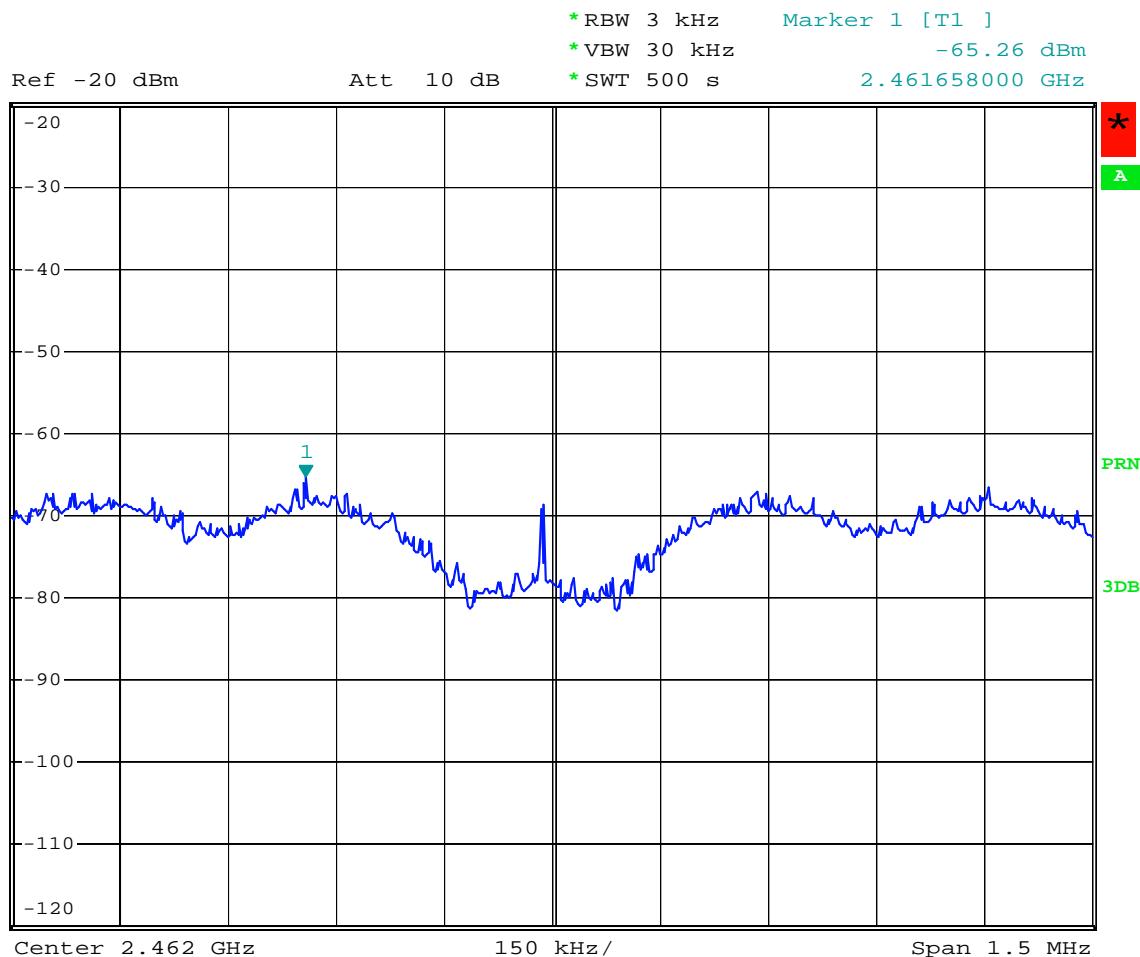
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3. 802.11g at 6Mbps of CH11

R
S



Date: 26.MAR.2007 16:37:02

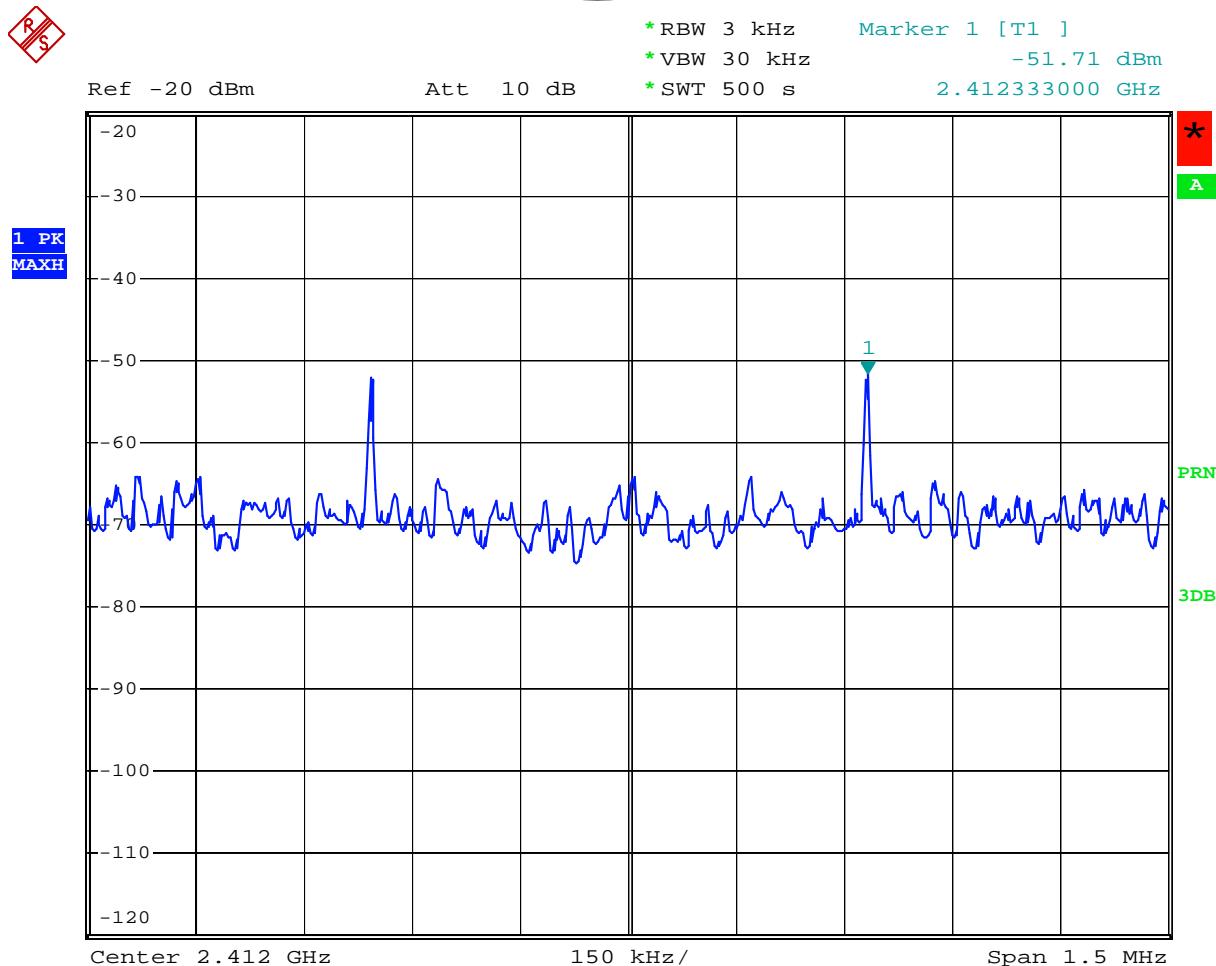
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4. 802.11b at 1Mbps of CH01



Date: 26.MAR.2007 18:23:12

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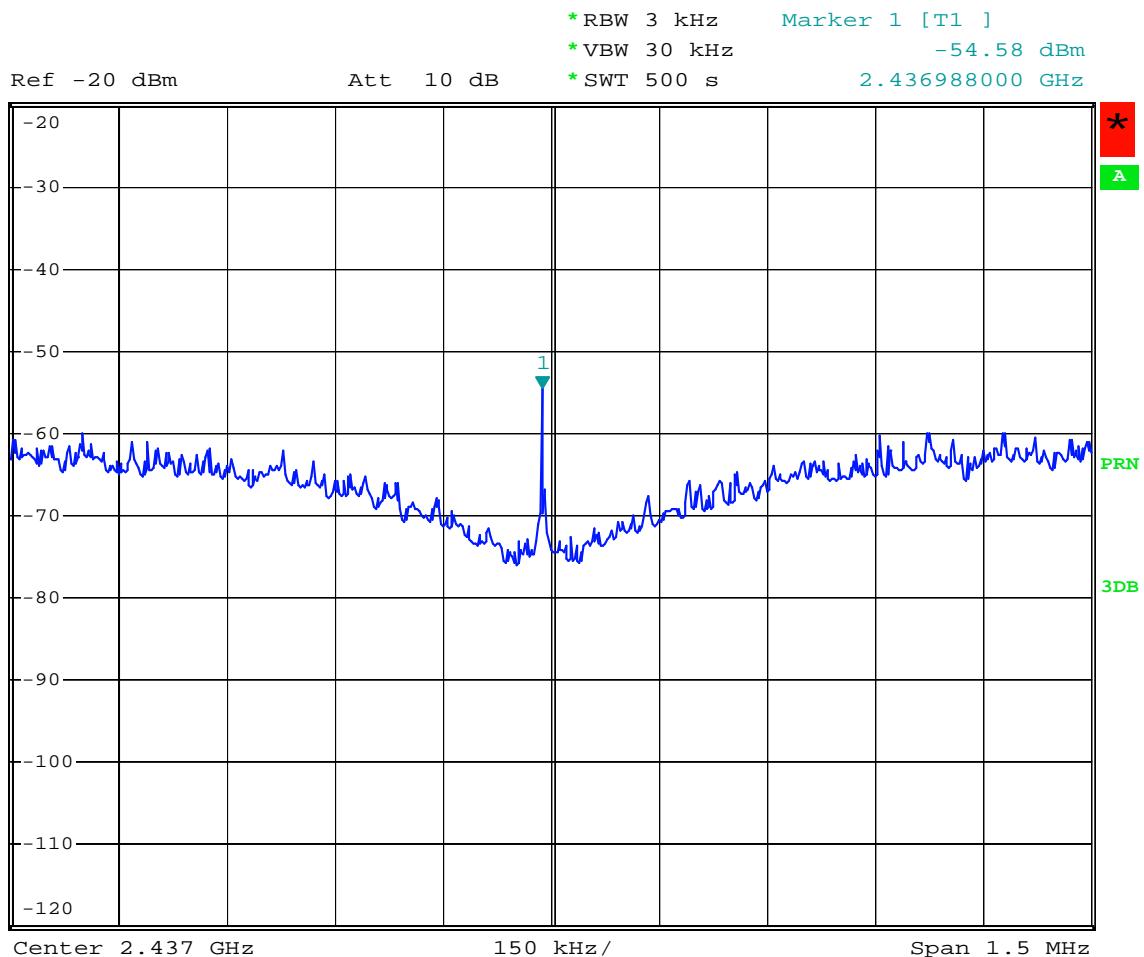
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5. 802.11b at 1Mbps of CH06

R
S



Date: 26.MAR.2007 19:04:17

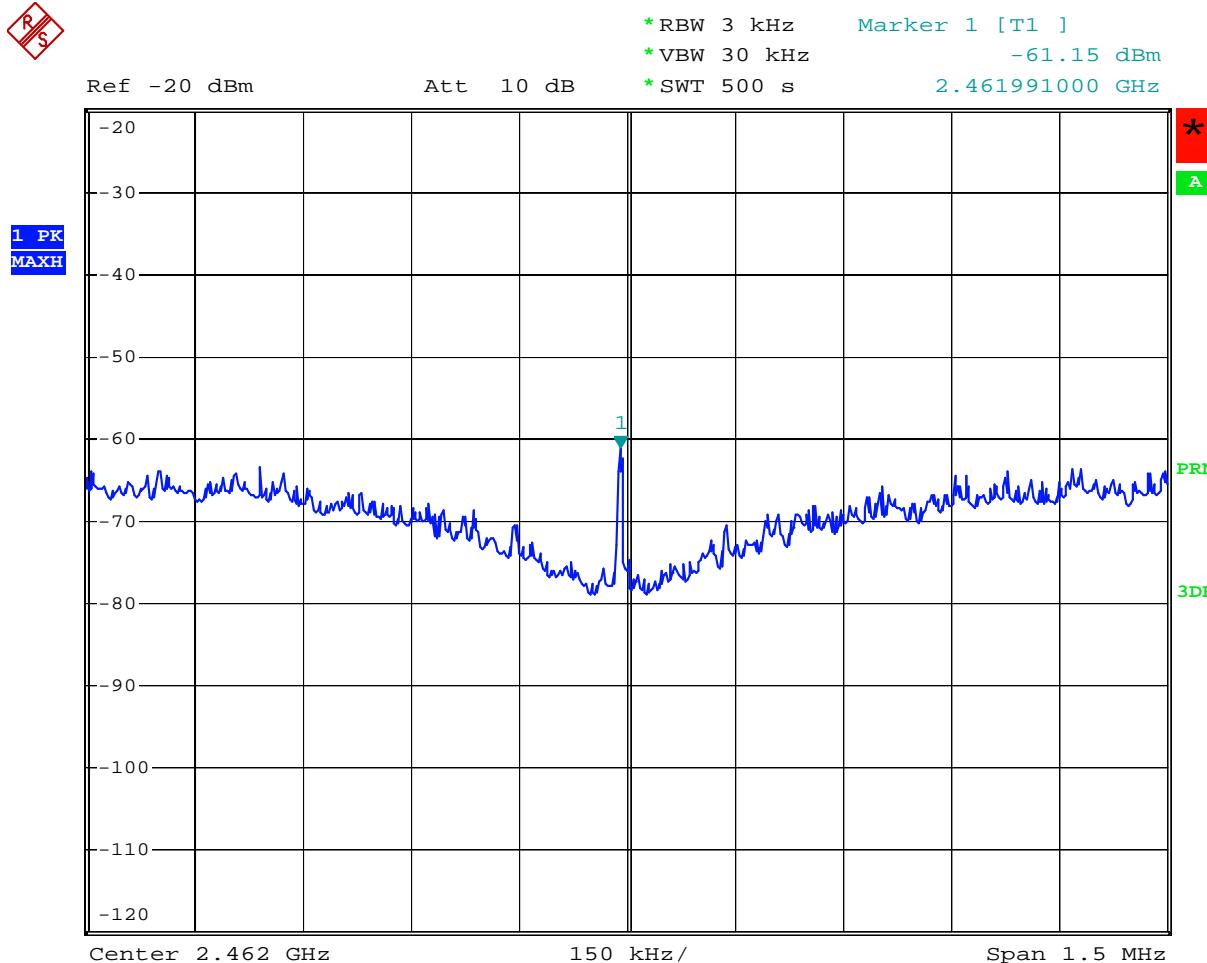
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6. 802.11b at 1Mbps of CH11



Date: 26.MAR.2007 19:35:57

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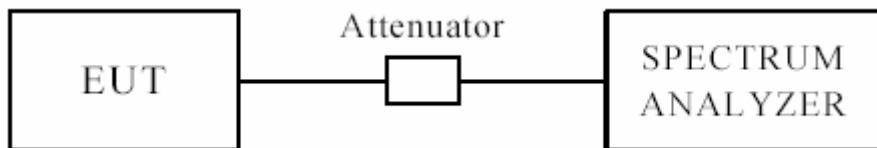
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10 Out of Band Measurement

10.1 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 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.

10.4 Test Result

For 802.11b mode

CH01 at 1Mbps

Note (Peak)

The band edge emission plot on the following first page shows 52.19dBc 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 93.8dBuV/m (Peak), so the maximum field strength in restrict band is $93.8 - 52.19 = 41.61$ dBuV/m which is under 74dBuV/m limit.

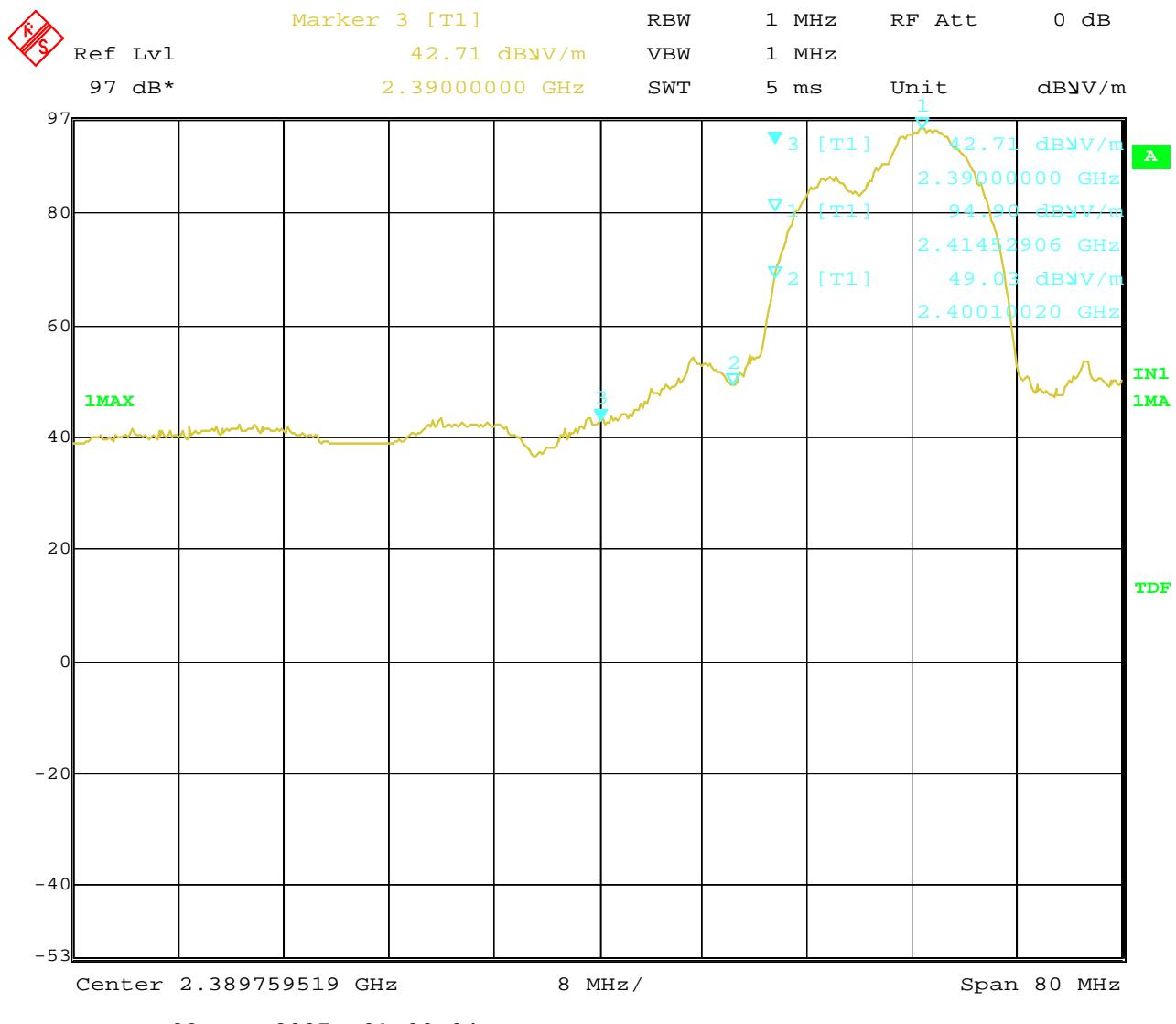
Note (Average):

The band edge emission plot on the following second page shows 55.69dBc 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 90.5dBuV/m (Average), so the maximum field strength in restrict band is $90.5 - 55.69 = 34.81$ dBuV/m which is under 54dBuV/m limit.

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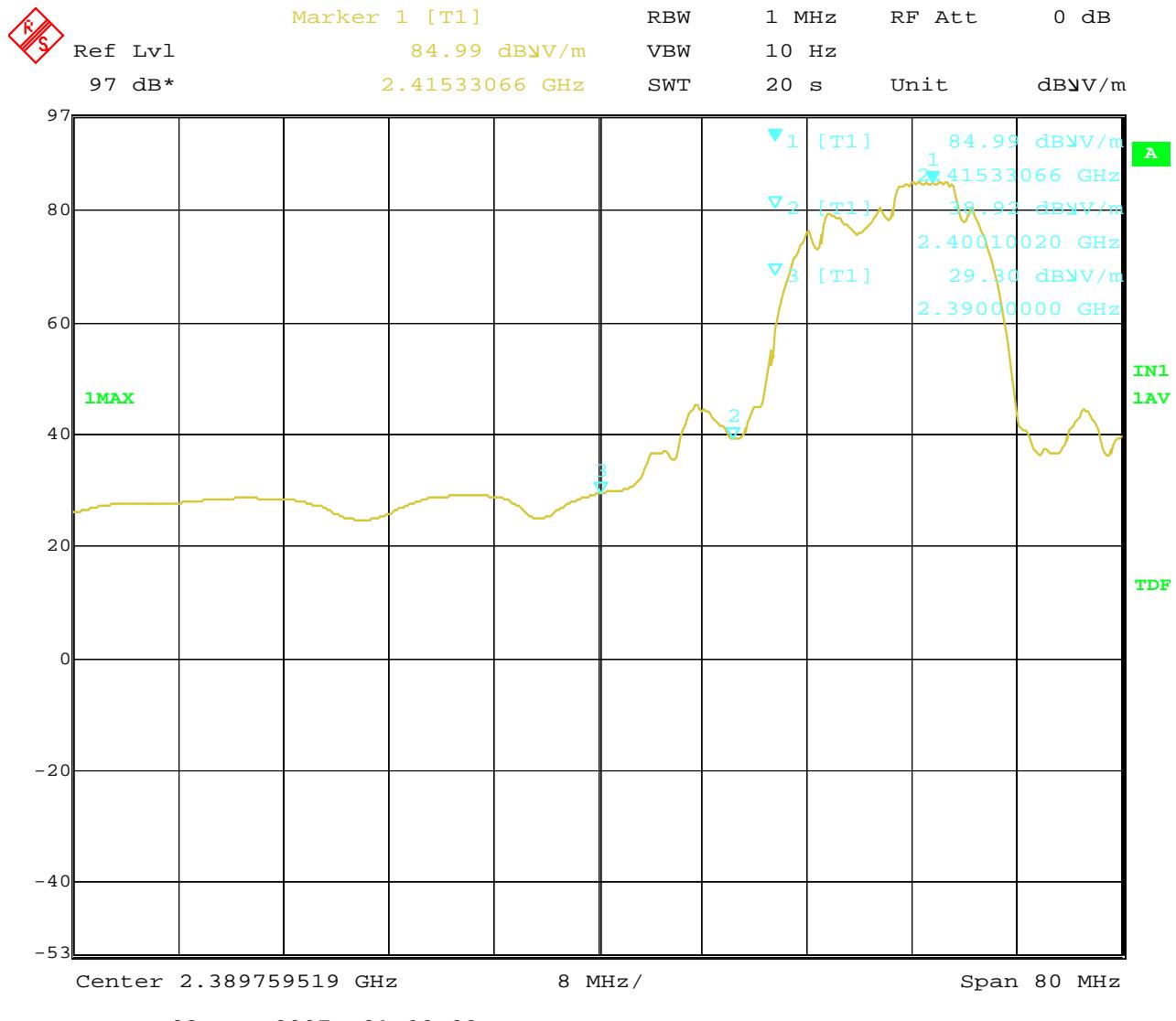
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For 802.11b mode

CH11 at 1Mbps

Note (Peak)

The band edge emission plot on the following first page shows 60.74dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 11 is 96.8dBuV/m (Peak), so the maximum field strength in restrict band is $96.8 - 60.74 = 36.06$ dBuV/m which is under 74dBuV/m limit.

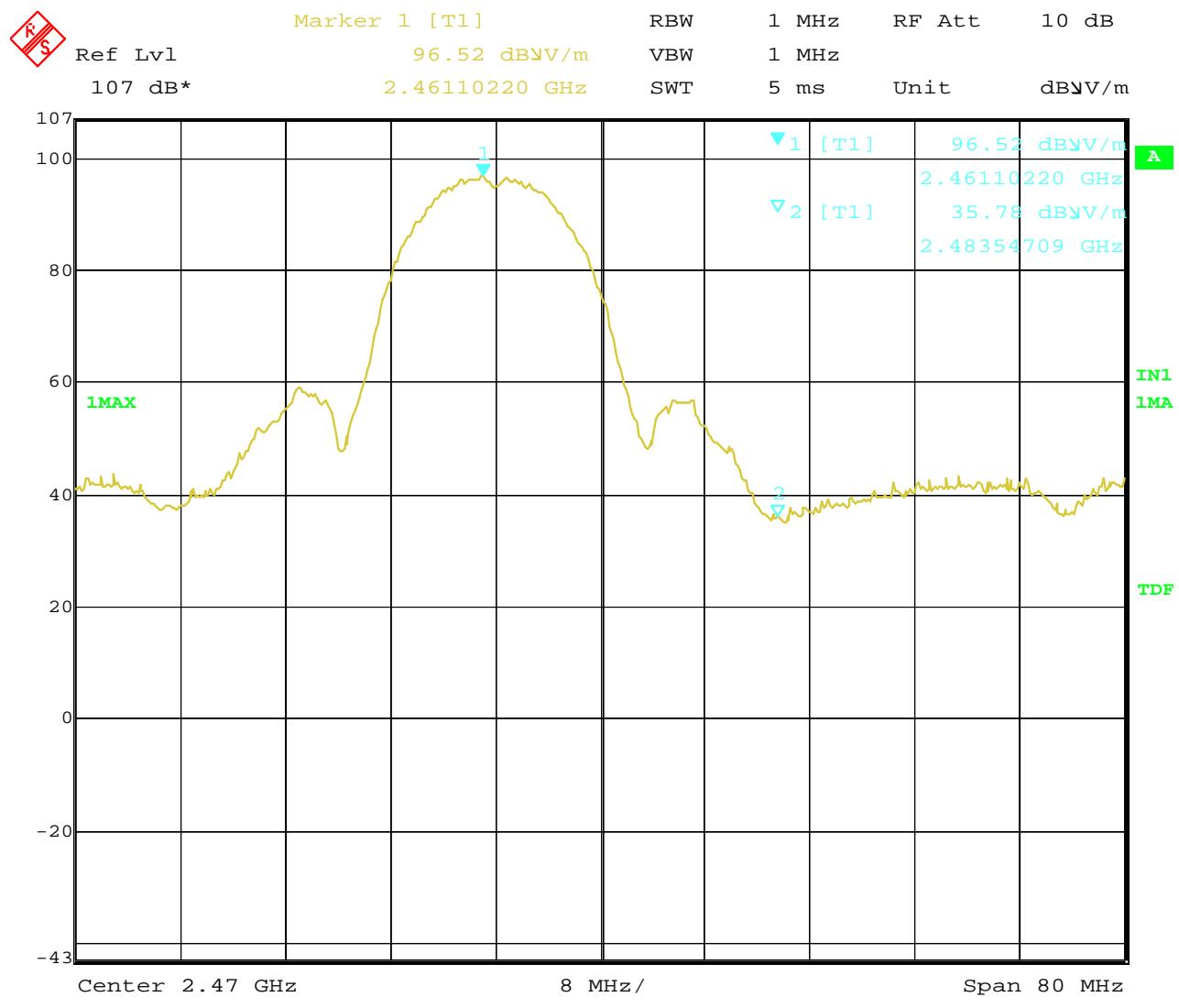
Note (Average):

The band edge emission plot on the following second page shows 64.4dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 11 is 93.2dBuV/m (Average), so the maximum field strength in restrict band is $93.2 - 64.4 = 28.8$ dBuV/m which is under 54dBuV/m limit.

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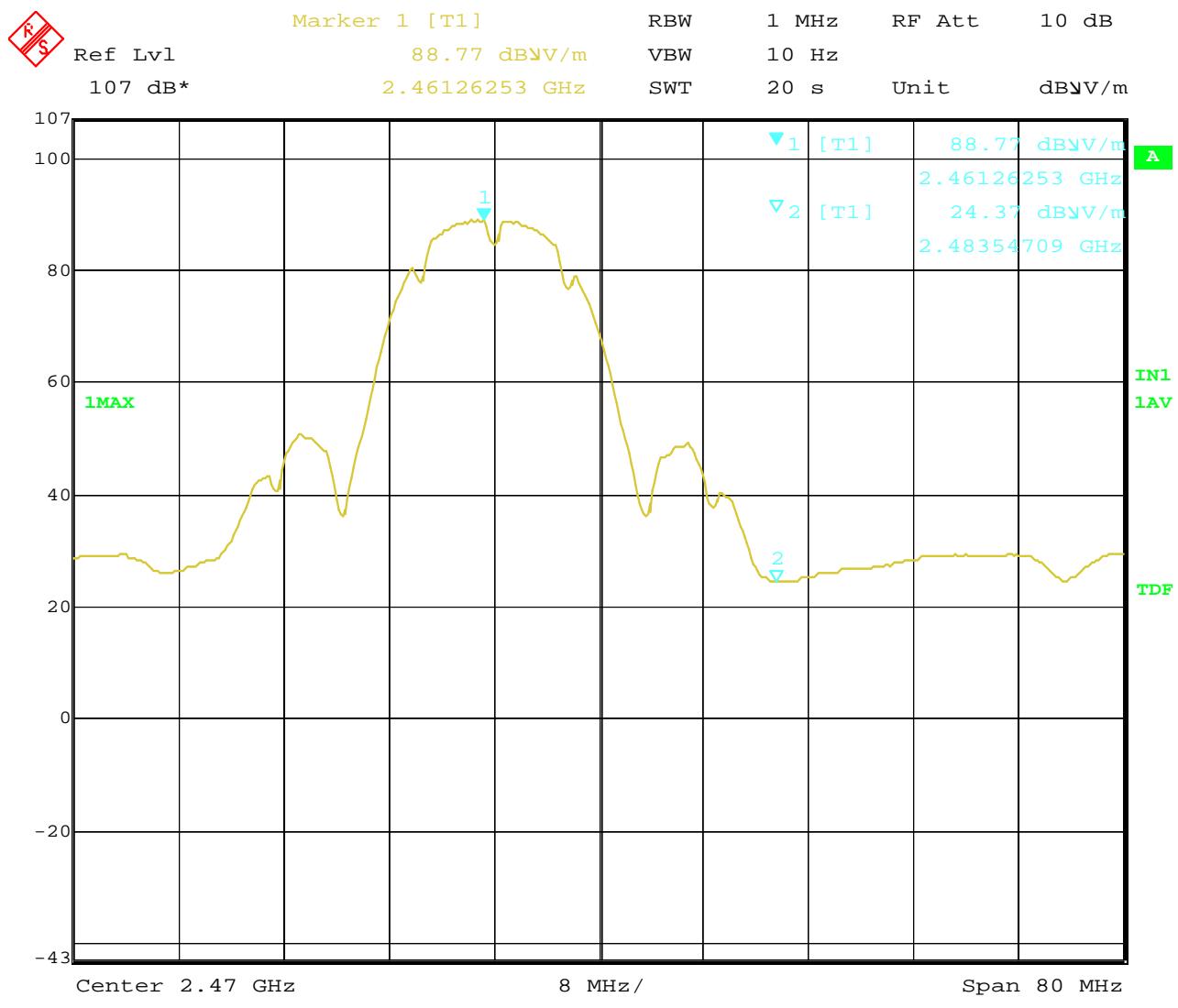
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For 802.11g mode

CH11 at 6Mbps

Note (Peak)

The band edge emission plot on the following first page shows 40.89dBc 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 96.4dBuV/m (Peak), so the maximum field strength in restrict band is $96.4 - 40.89 = 55.51$ dBuV/m which is under 74dBuV/m limit.

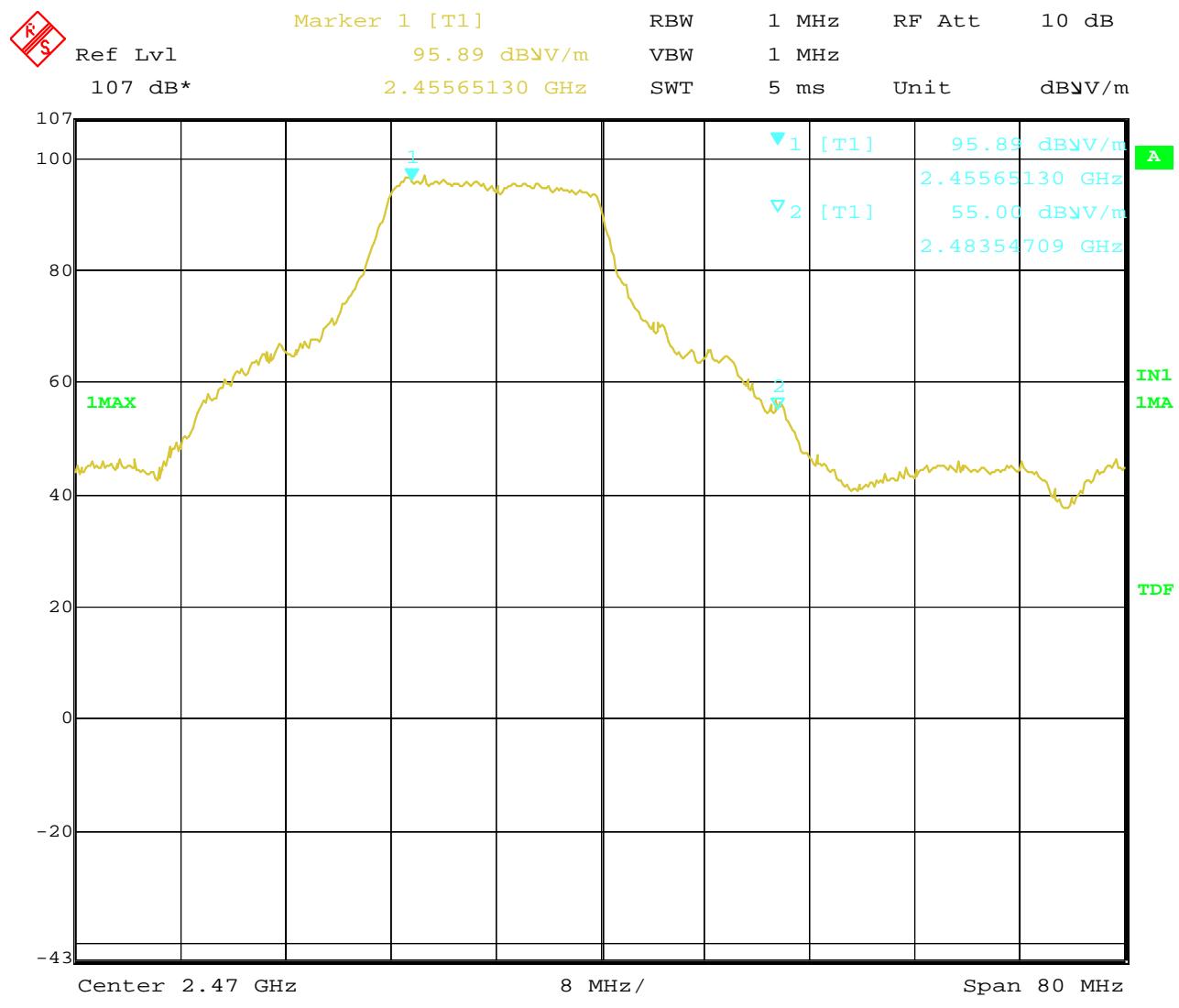
Note (Average):

The band edge emission plot on the following second page shows 47.74dBc 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 88.7dBuV/m (Average), so the maximum field strength in restrict band is $88.7 - 47.74 = 40.96$ dBuV/m which is under 54dBuV/m limit.

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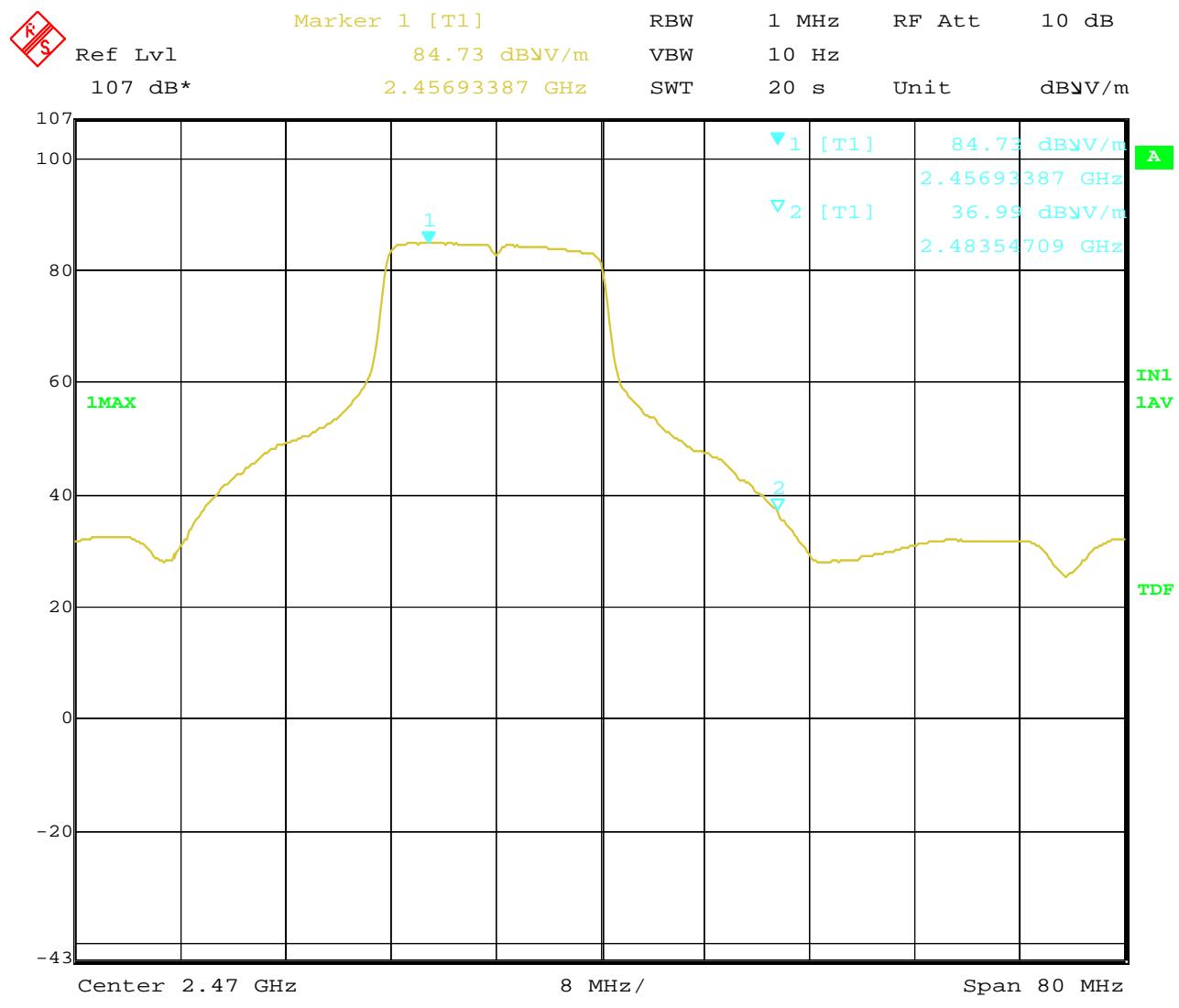
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For 802.11g mode

CH01 at 6Mbps

Note (Peak)

The band edge emission plot on the following first page shows 41.52dBc 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 93.3dBuV/m (Peak), so the maximum field strength in restrict band is $93.3 - 41.52 = 51.78$ dBuV/m which is under 74dBuV/m limit.

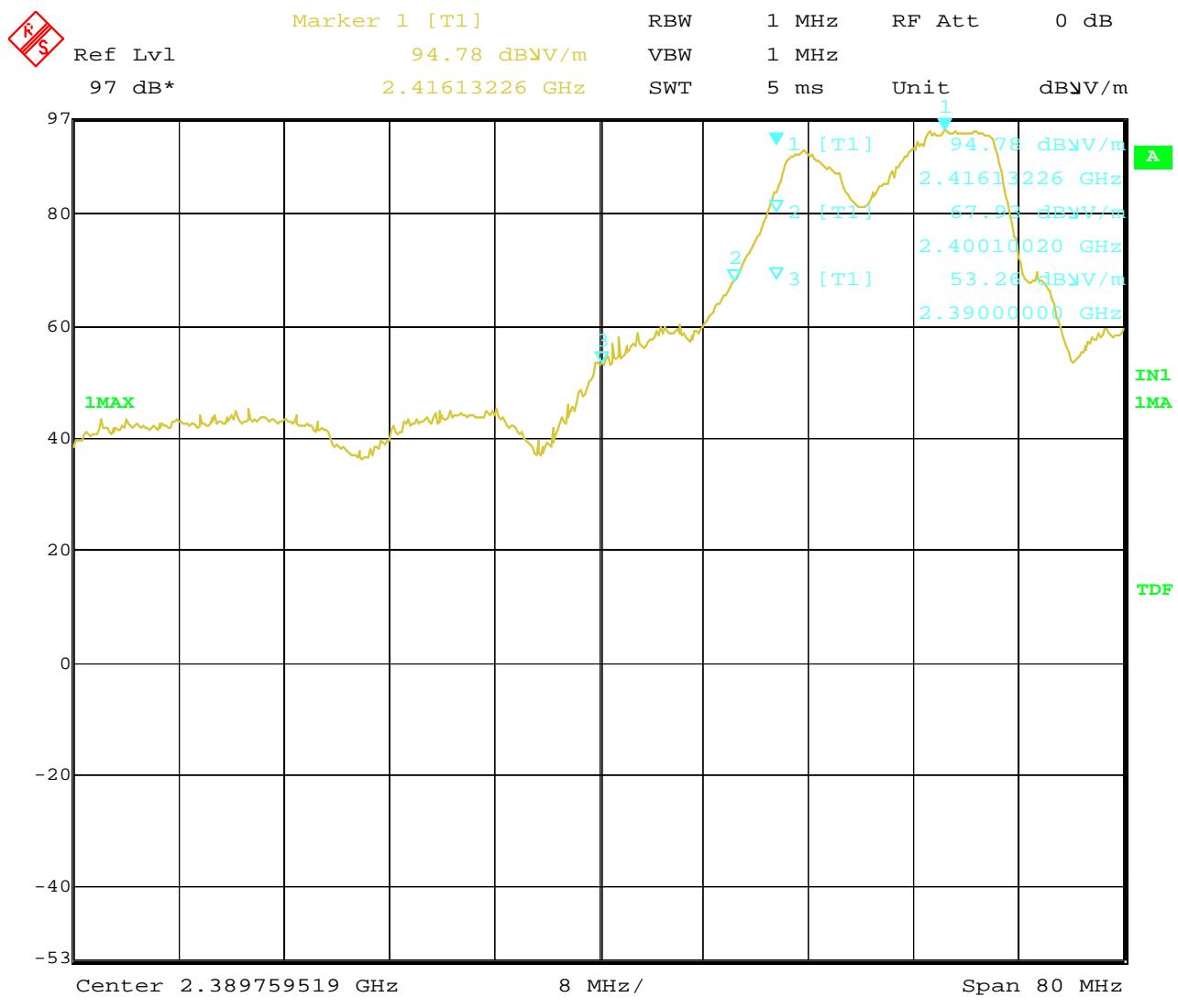
Note (Average):

The band edge emission plot on the following second page shows 47.21dBc 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 84.7dBuV/m (Average), so the maximum field strength in restrict band is $84.7 - 47.21 = 37.49$ dBuV/m which is under 54dBuV/m limit.

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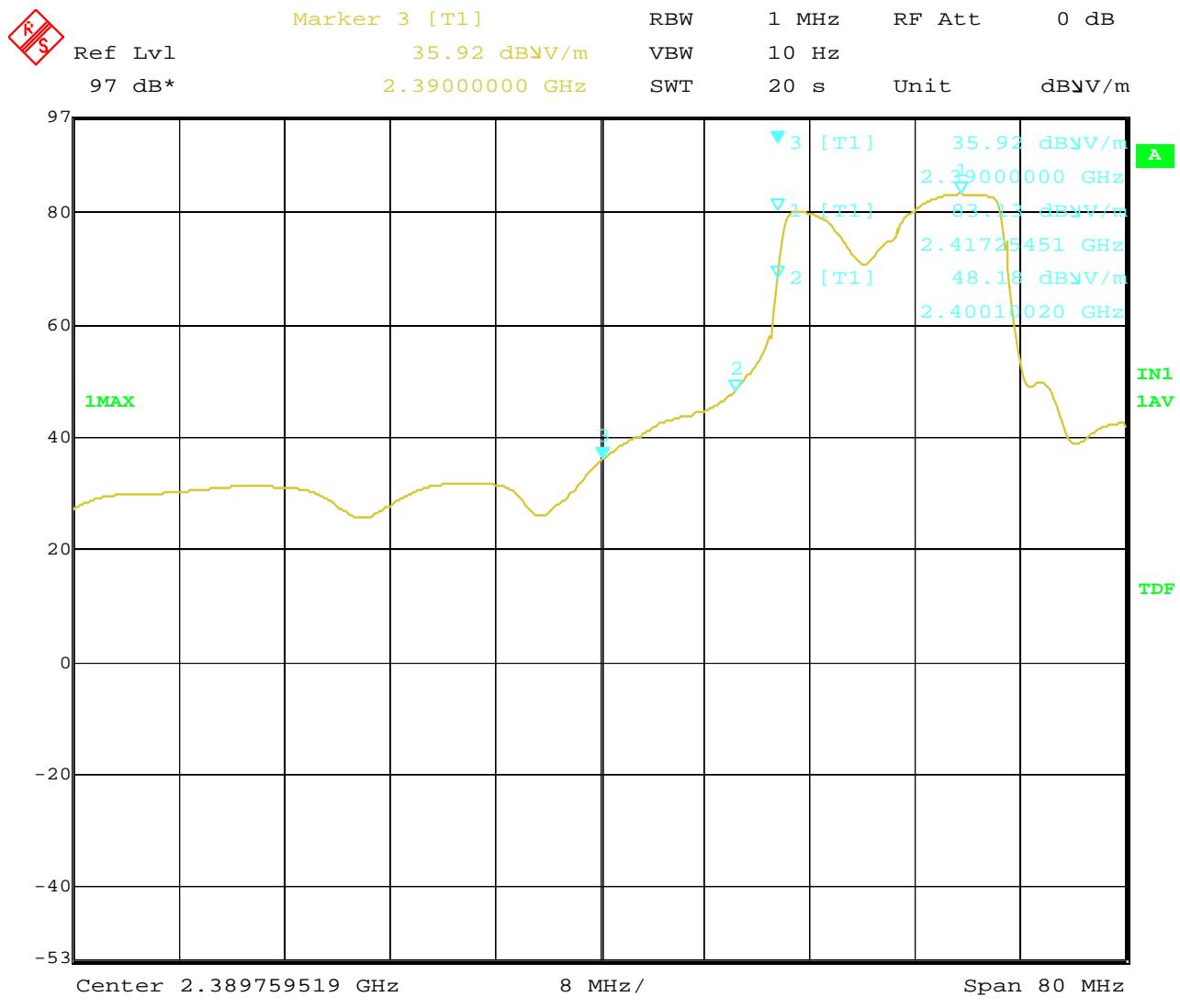
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11.0 Antenna Requirement

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

The antenna is chip dielectric antenna. The maximum Gain of this antenna is -0.8dBi

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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
0.832	9.1	8.1283	0.0013453	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
0.832	5.7	3.7154	0.0006148	1	Compiles

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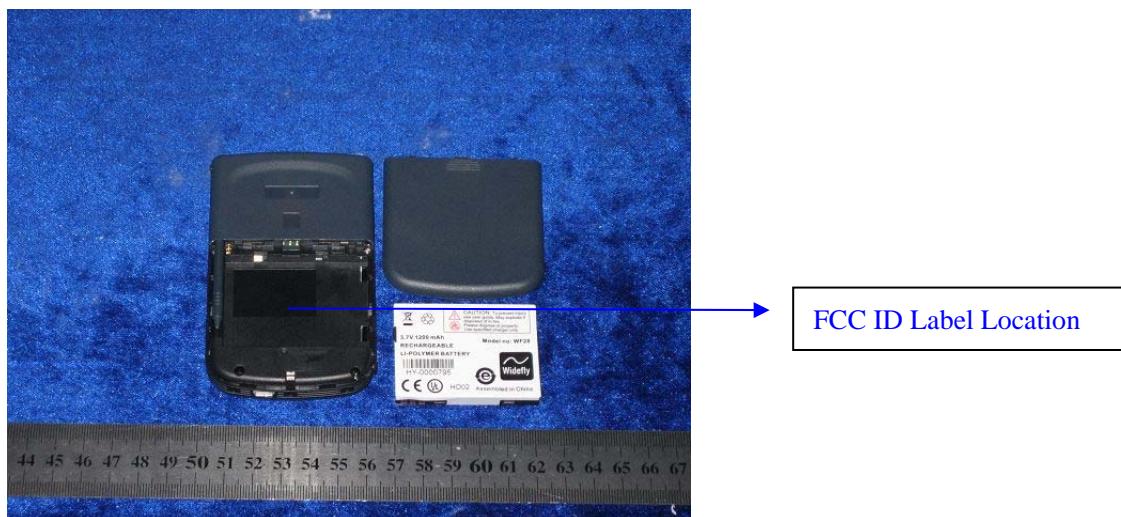
13.0 FCC ID Label

FCC ID: RWL-B100

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:



The report refers only to the sample tested and does not apply to the bulk.
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14.0 Photo of testing

14.1 Conducted test View--



14.2 Emission Radiated test View--



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Outside View

14.3 Photo for the EUT



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Outside View

14.4 Photo for the EUT



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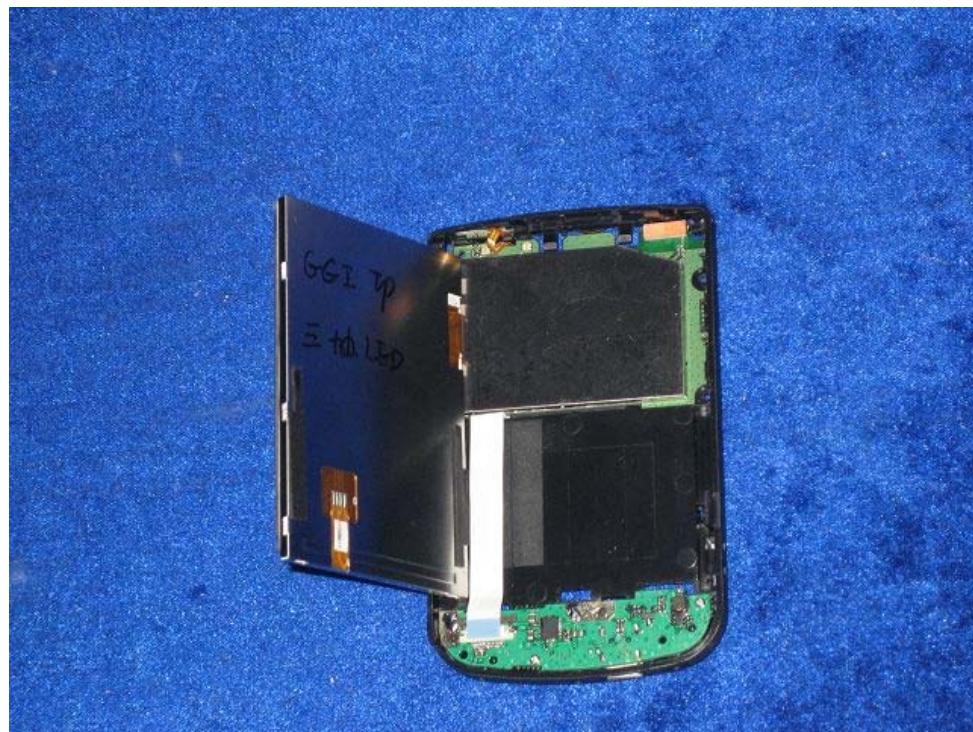
Outside View



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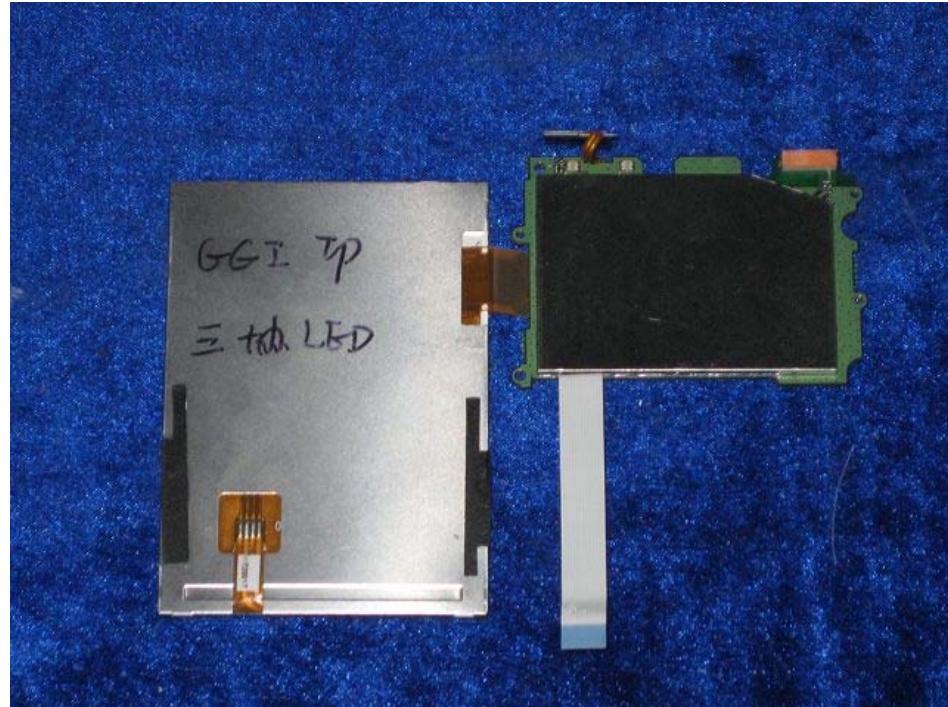
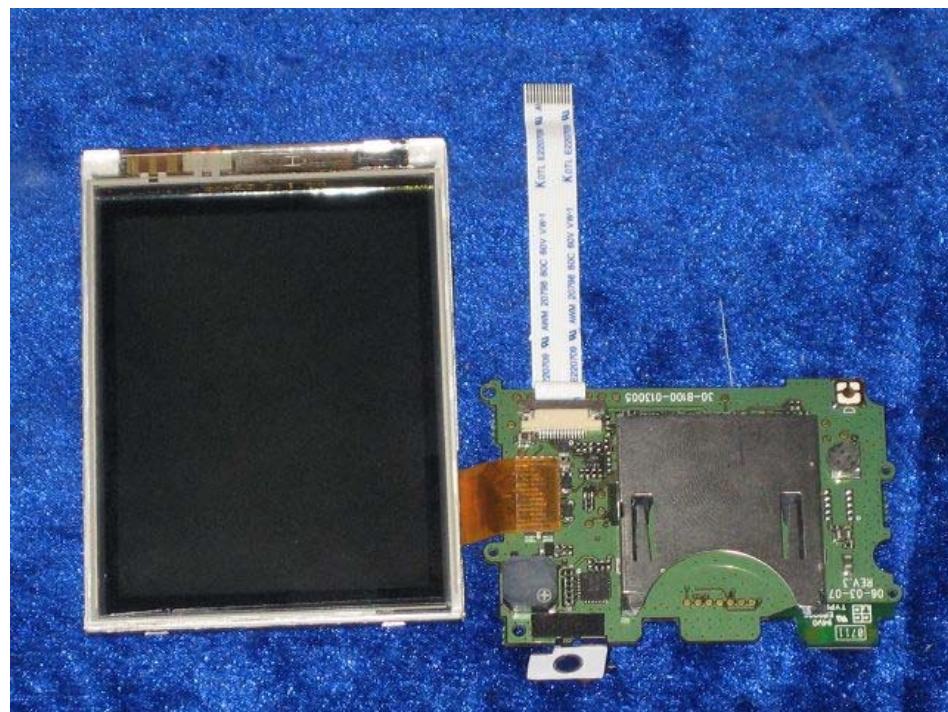
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Interior View



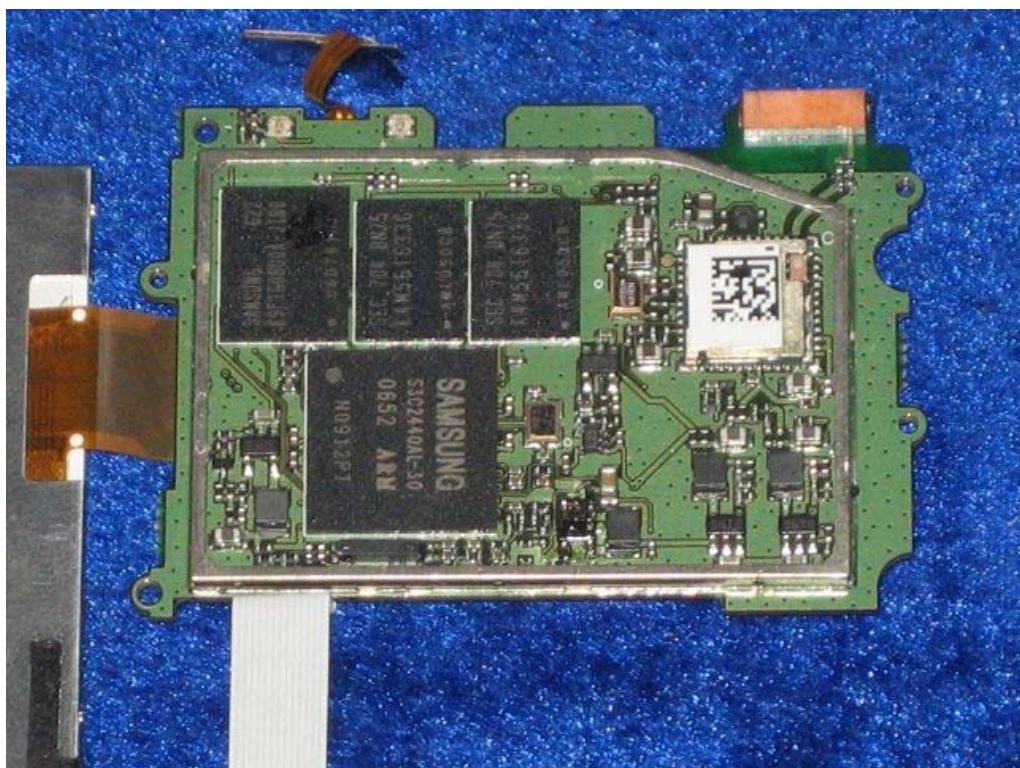
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Interior View



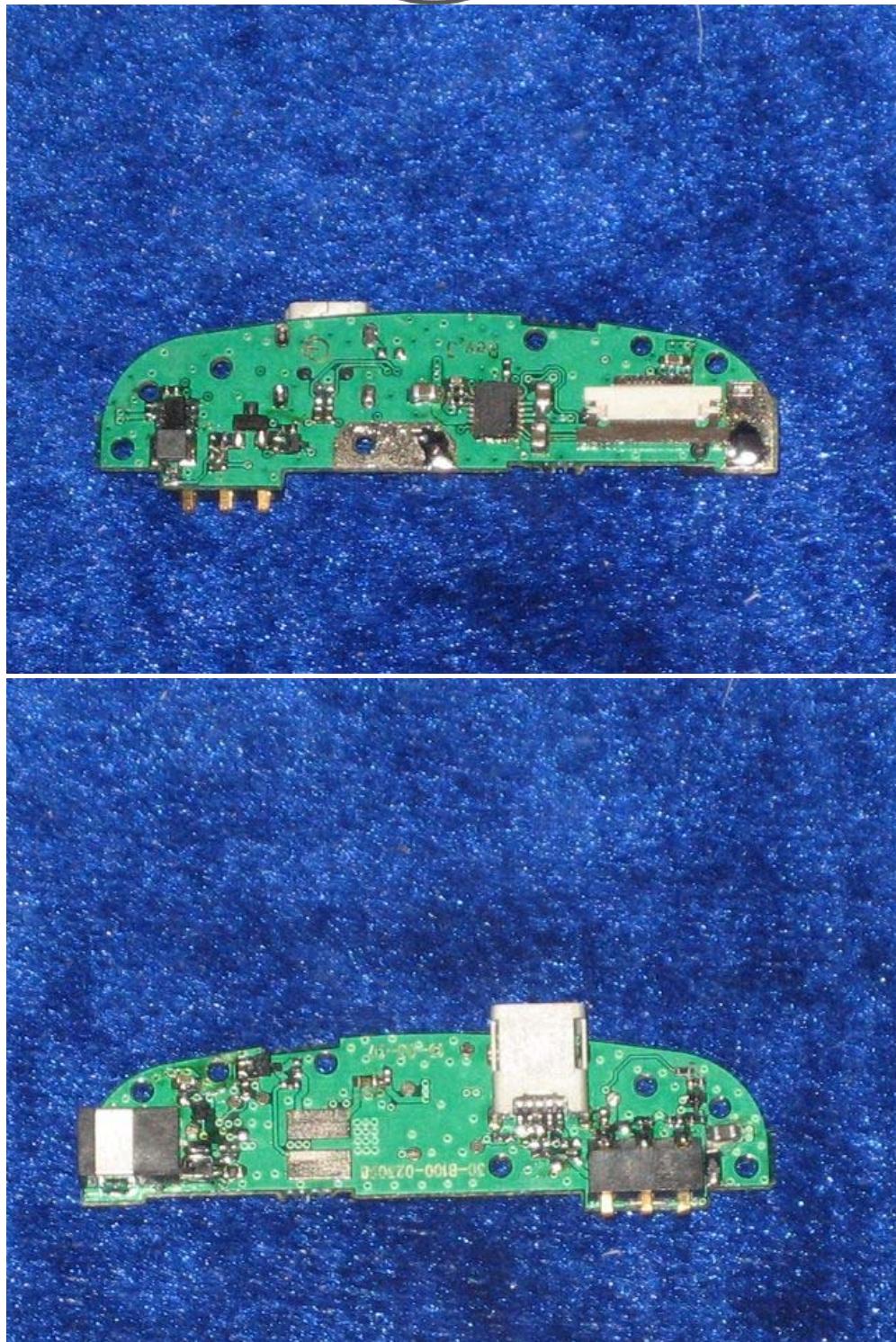
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Interior View



End of the report

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