



卓時檢測
TIMEWAY TESTING LABORATORY



NO.L2292

ISO/IEC17025 Accredited Lab.

Report No: FCC 0711080
File reference No: 2007-12-04

Applicant: Group Sense Mobile-Tech Limited

Product: WiFi PMP

Model No: i280

Trademark: Xplore

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: Dec 04,2007

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

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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.: 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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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: Group Sense Mobile-Tech Limited
Address: 6/F, Bldg 9, 5 Science Park West Ave., Hong Kong Science Park, Shatin, N.T., Hong Kong
Telephone: 00852-28328271
Fax: 00852-25912360

1.3 Description of EUT

Product:	WiFi PMP
Manufacturer:	Group Sense Mobile-Tech Limited
Brand Name:	Xplore
Model Number:	i280
Additional Model Name	N/A
Additional Trade Name	N/A
Rating:	Input: DC3.4-4.2V 1A max;
Power Supply:	Model: CP39B0050V100V, Input: 110-240V~, 50-60Hz; Output: 5V, 1A
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	Printed antenna on PCB, and the antenna gain is -3.0dBi

1.4 Submitted Sample

1 Sample

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1.5 Test Duration
2007-11-14 to 2007-12-03

1.6 Test Uncertainty
Conducted Emissions Uncertainty = ± 2.4 dB
Radiated Emissions Uncertainty = ± 6.0 dB

1.7 Test Engineer *Terry Tang*
The sample tested by _____

Print Name: Terry Tang

2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
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
Power meter	Anritsu	ML2487A	6K00003613	2007-02-23	2008-02-22
Power sensor	Anritsu	MA2491A	32263	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
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2007-08-16	2008-08-15
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2007-02-05	2008-02-04
3m OATS	--	--	N/A	2007-02-05	2008-02-04
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-631	2007-07-03	2008-07-02
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	8485971001	2007-06-05	2008-06-04

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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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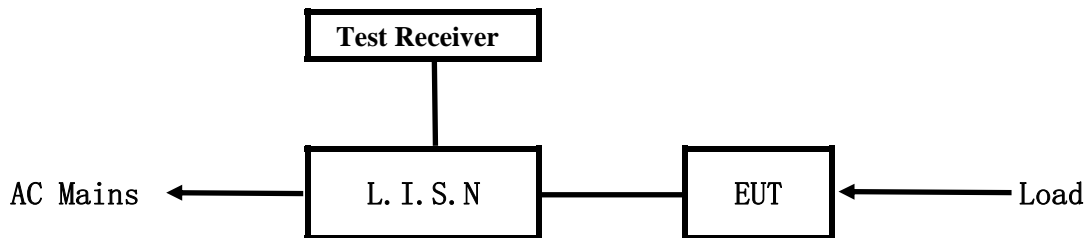
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

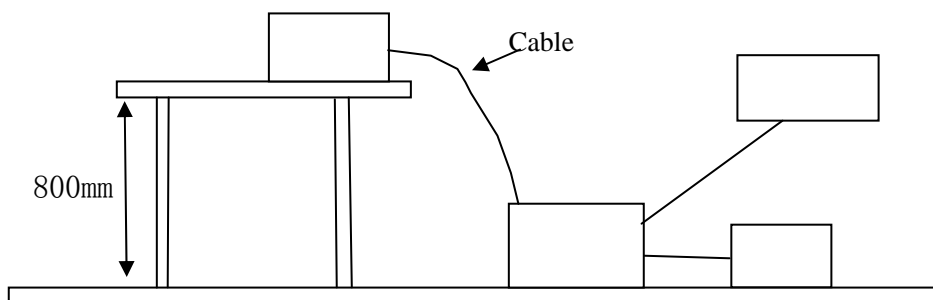


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



5.3 Configuration of The EUT

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

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	--	--



A. EUT

Device	Manufacturer	Model	FCC ID
WiFi PMP	Group Sense Mobile-Tech Limited	i280	VRI-I280

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 -2003.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Class A Limits (dB 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

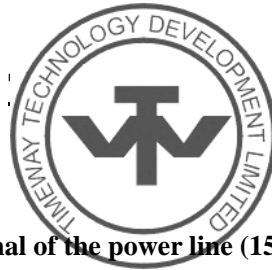
- Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

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

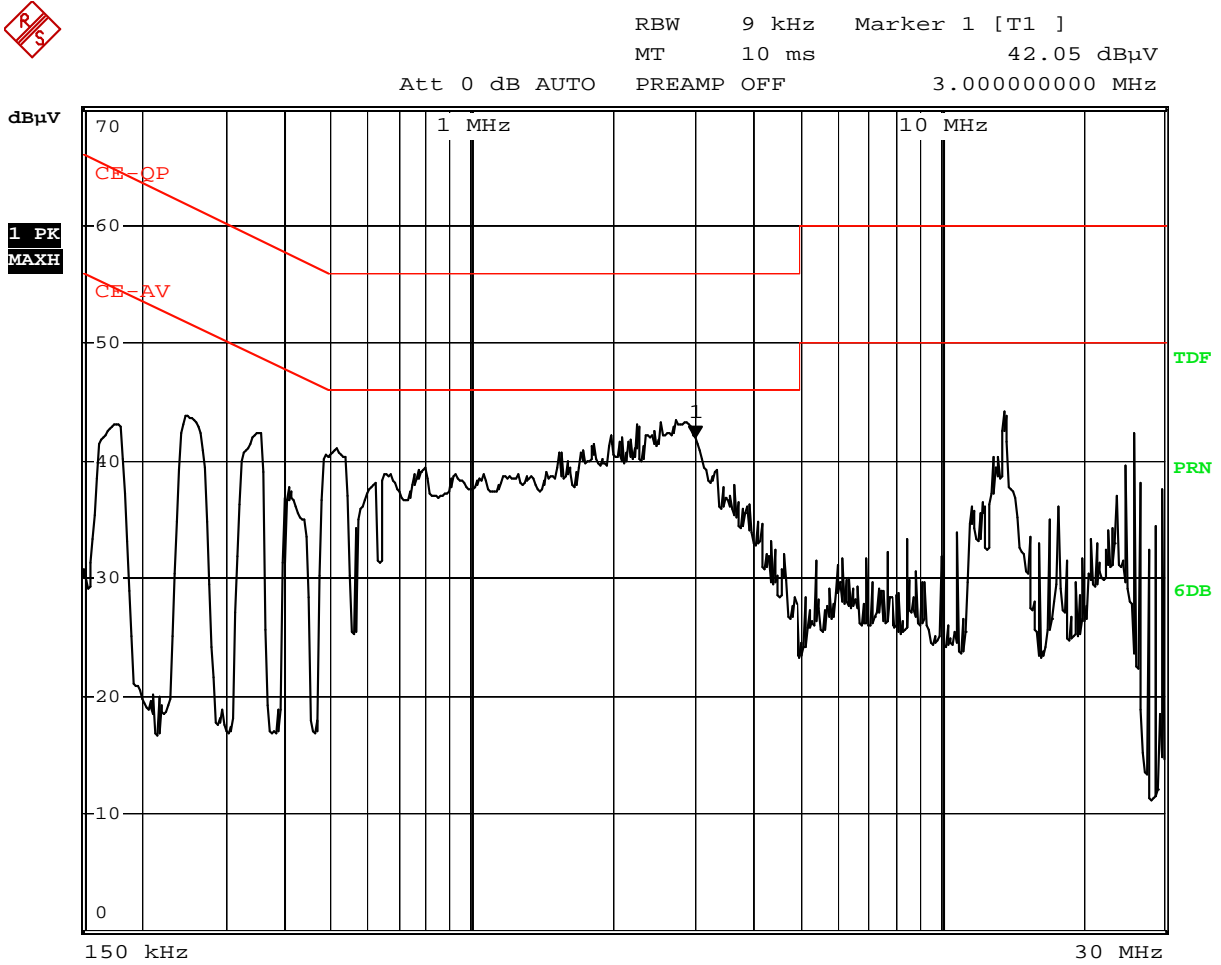
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A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Normal Operation
 Test Voltage 110V
Results: Pass

Please refer to following diagram for individual



Date: 19.NOV.2007 15:48:07

Frequency (MHz)	Reading(dB µ V)				Limit (dB µ V)	
	Line		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.358	41.1	29.8	--	--	58.8	48.8
2.264	40.3	25.8	--	--	56.0	46.0
2.852	41.4	26.2	--	--	56.0	46.0

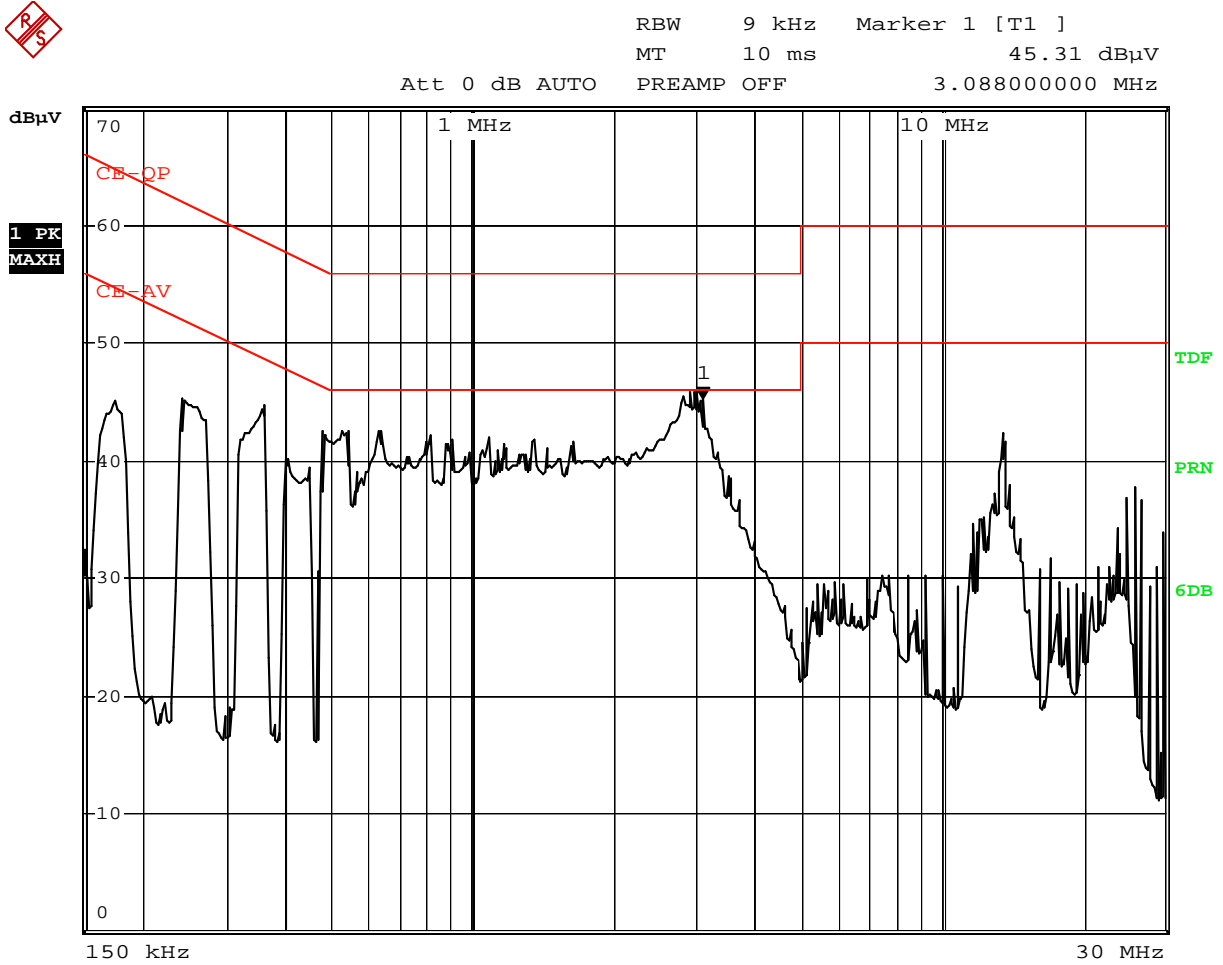
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B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Normal Operation
 Test Voltage 110V
Results: Pass

Please refer to following diagram for individual



Date: 19.NOV.2007 15:45:00

Frequency (MHz)	Reading(dB µ V)				Limit (dB µ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.358	--	--	42.2	31.4	58.8	48.8
0.636	--	--	41.1	24.6	56.0	46.0
2.992	--	--	43.5	29.6	56.0	46.0

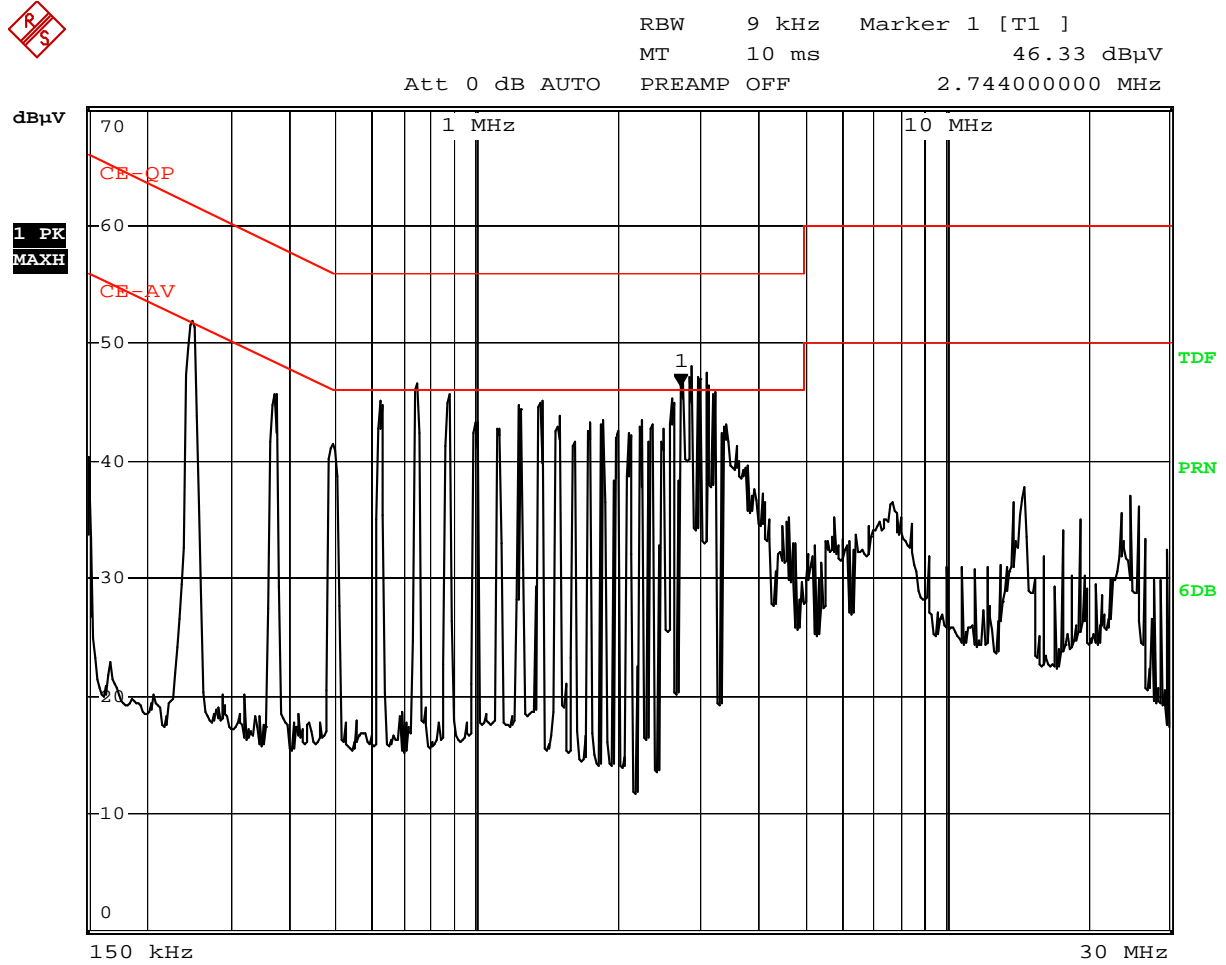
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C Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Normal Operation
 Test Voltage 240V
Results: Pass

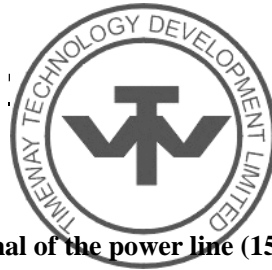
Please refer to following diagram for individual



Date: 19.NOV.2007 15:41:25

Frequency (MHz)	Reading(dB µ V)				Limit (dB µ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.250	--	--	51.1	50.1	61.8	51.8
0.748	--	--	44.7	39.3	56.0	46.0
2.856	--	--	45.5	34.5	56.0	46.0
3.092	--	--	45.7	34.7	56.0	46.0

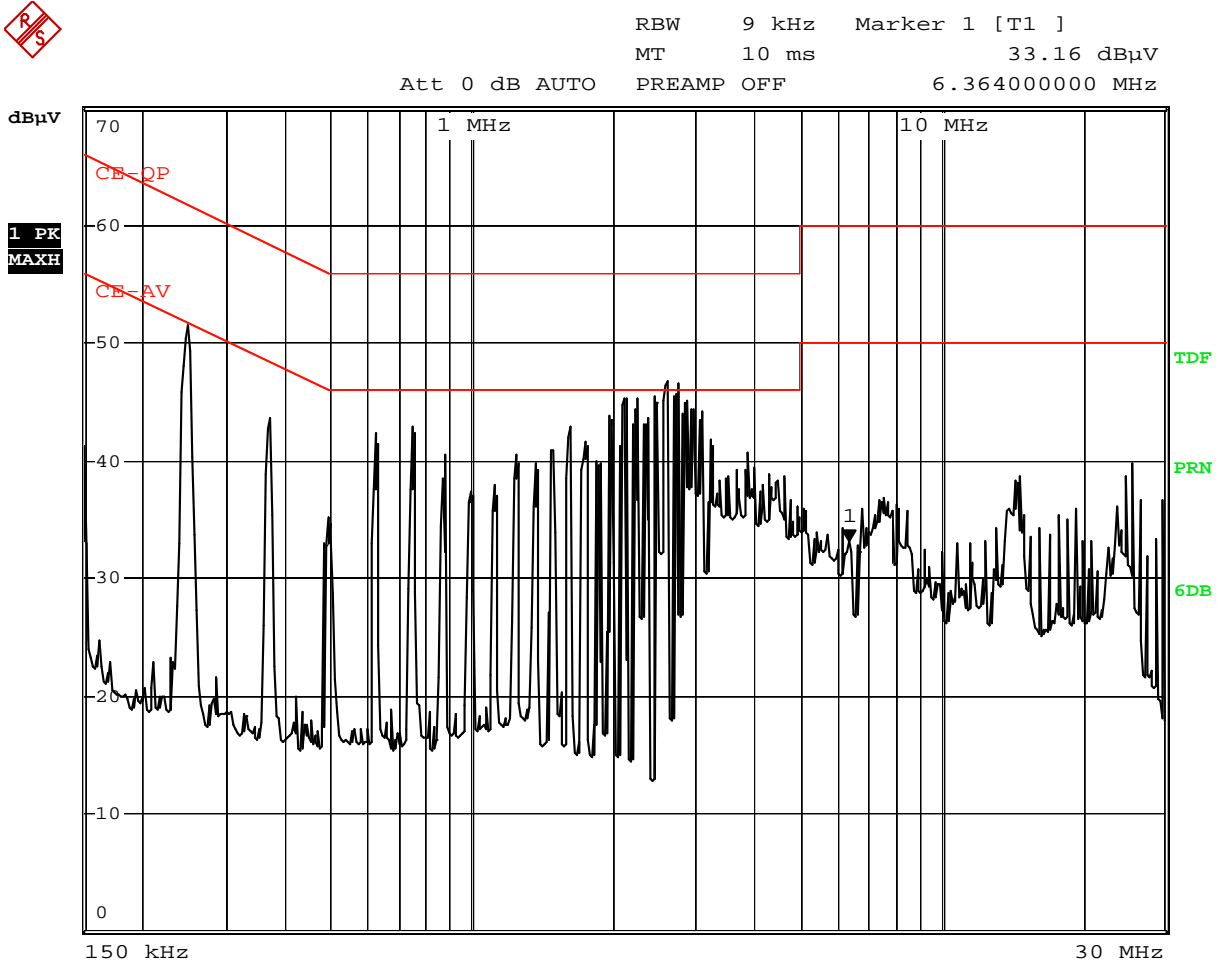
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D Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Normal Operation
 Test Voltage 240V
Results: Pass

Please refer to following diagram for individual



Date: 19.NOV.2007 15:38:05

Frequency (MHz)	Reading(dB µ V)				Limit (dB µ V)	
	Line		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.250	51.1	50.2	--	--	61.8	51.8
2.116	43.5	31.1	--	--	56.0	46.0
2.628	44.4	29.8	--	--	56.0	46.0
2.744	44.1	34.1	--	--	56.0	46.0

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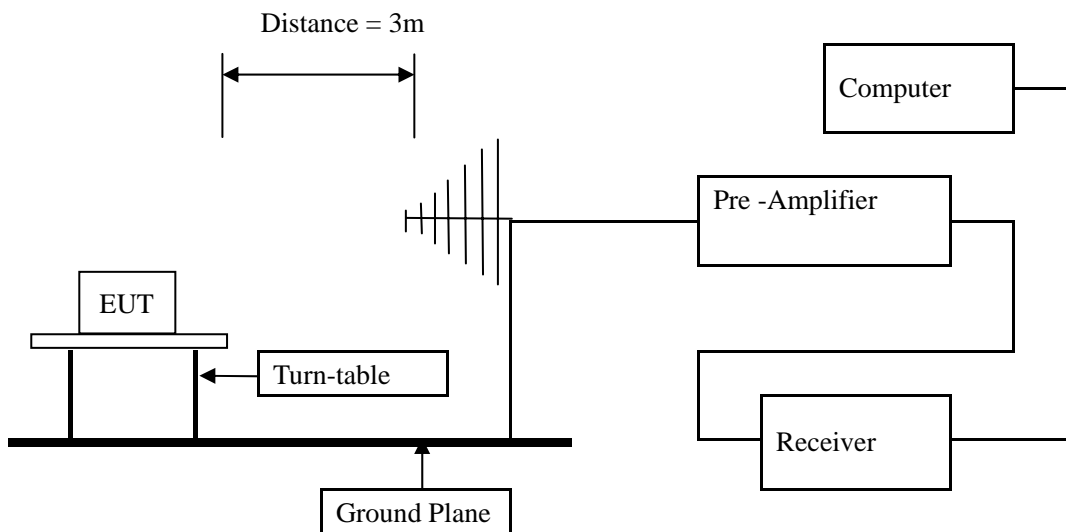


6 Radiated Emission Test

6.1 Test Method and test Procedure:

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



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)
139.125	39.12	H	43.50
194.900	38.84	H	43.50
347.675	43.00	H	46.00
711.425	36.61	H	46.00
886.025	36.98	H	46.00
88.200	36.13	V	43.50
151.250	36.57	V	43.50
194.900	38.21	V	43.50
347.675	35.89	V	46.00

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Test Figure: CH1 at 6Mbps

H

Radiated Emission Measurement

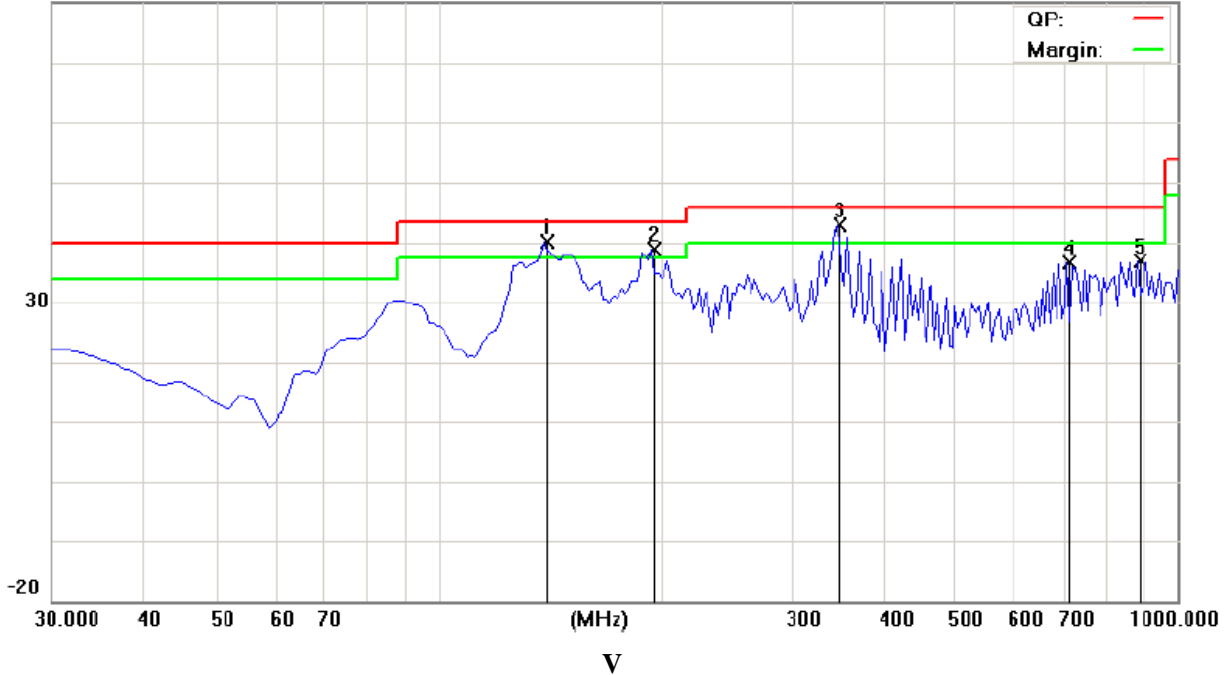
File :WiFi PMP

Data :#15

Date: 07/11/20/

Time: 13/50/09

80.0 dBuV/m



Radiated Emission Measurement

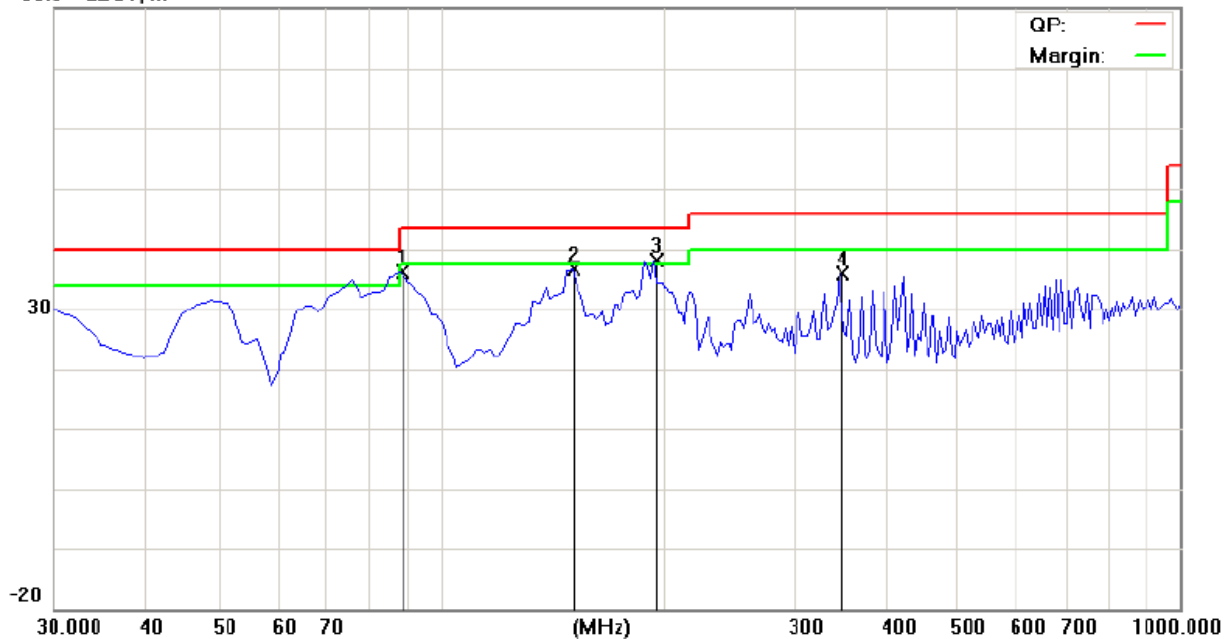
File :WiFi PMP

Data :#16

Date: 07/11/20/

Time: 13/52/47

80.0 dBuV/m



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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)
148.825	37.46	H	43.50
194.400	38.95	H	43.50
347.675	43.12	H	46.00
711.250	37.06	H	46.00
864.200	37.00	H	46.00
49.400	33.28	V	40.00
76.075	34.88	V	40.00
88.200	36.11	V	43.50
148.825	35.82	V	46.00
190.050	37.52	V	46.00
347.675	34.68	V	46.00

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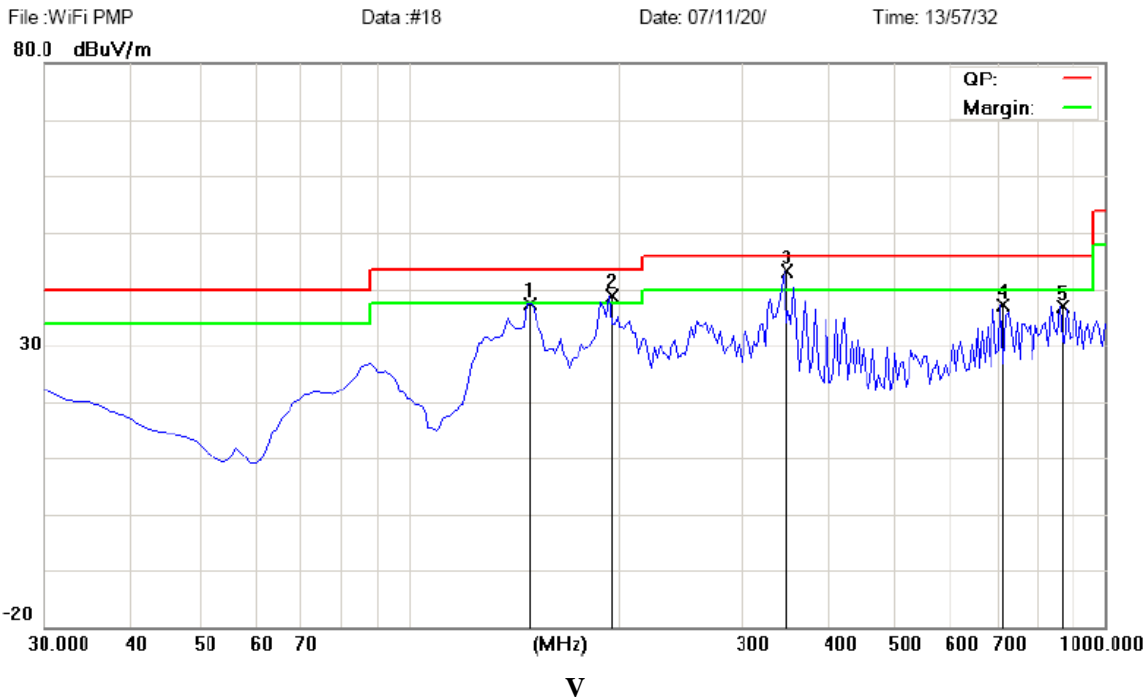
In the event of the improper use of the report, the Shenzhen Timeway Technology Consulting Co., Ltd. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Figure: CH1 at 1Mbps

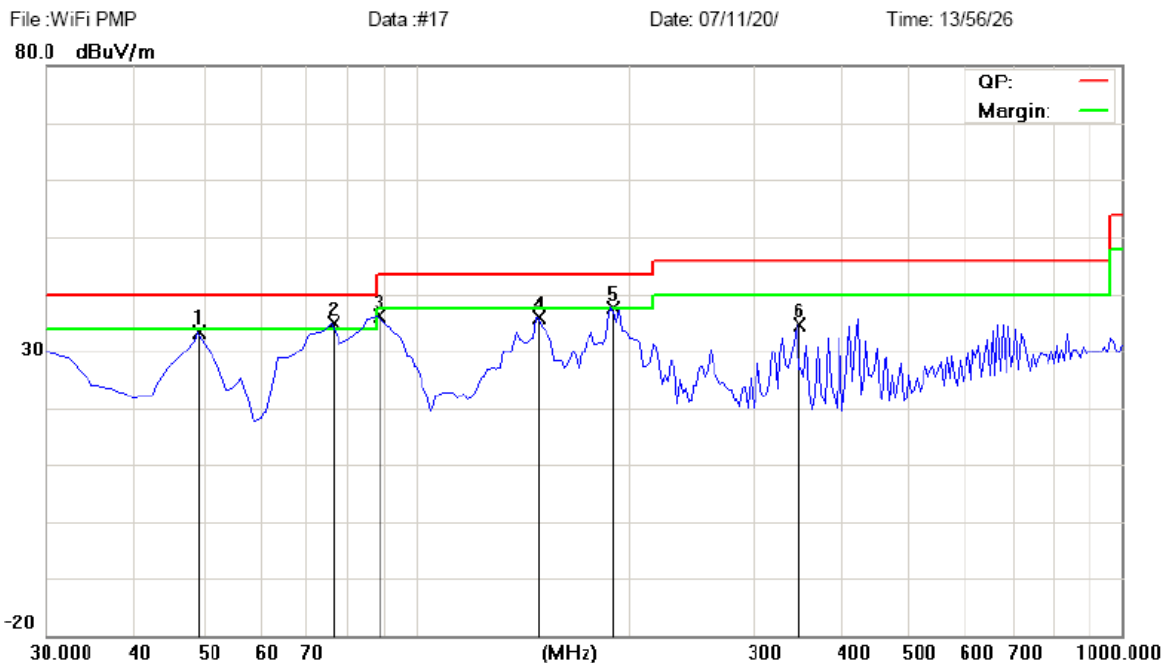
H

Radiated Emission Measurement



V

Radiated Emission Measurement



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

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	92.5 (PK) /83.6 (AV)	H	Fundamental Frequency
2412.00	96.8 (PK) /87.5 (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 802.11g 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	94.3 (PK) /85.6 (AV)	H	Fundamental Frequency
2437.00	100.5 (PK) /90.2 (AV)	V	
4874.00	49.3 (Peak)/ 41.6 (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	93.3PK) /85.2 (AV)	H	Fundamental Frequency
2462.00	98.7PK) /89.3 (AV)	V	
4924	48.5 (Peak)/ 40.6 (AV)	V	74(Peak)/ 54(AV)
4824	--	H	74(Peak)/ 54(AV)
7368	52.3 (Peak)/ 41.3 (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)

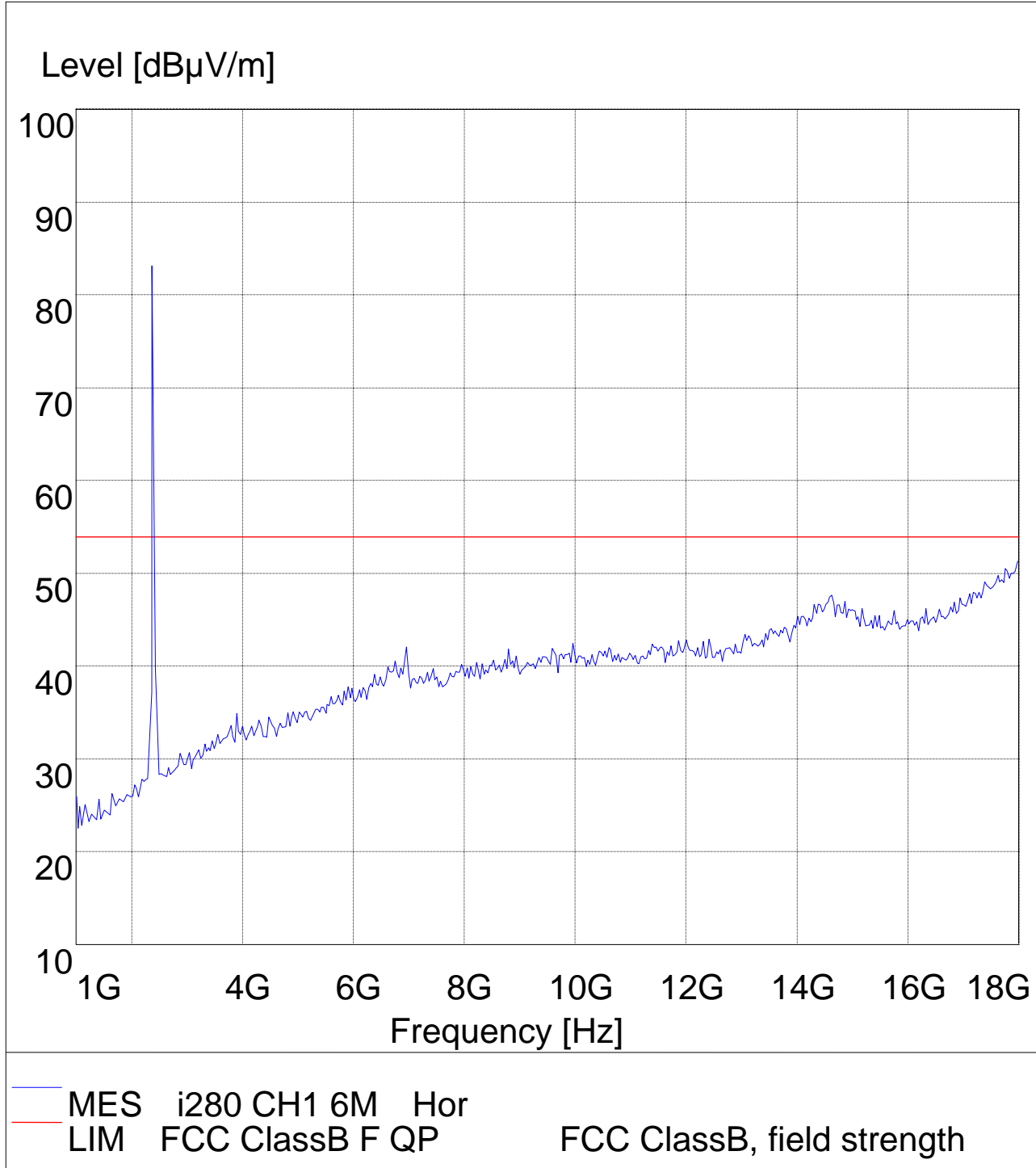
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
 2. Remark “---” means that the emissions level is too low to be measured
 3. For 802.11g mode at 6Mbps

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Please refer to the following test plots for details:

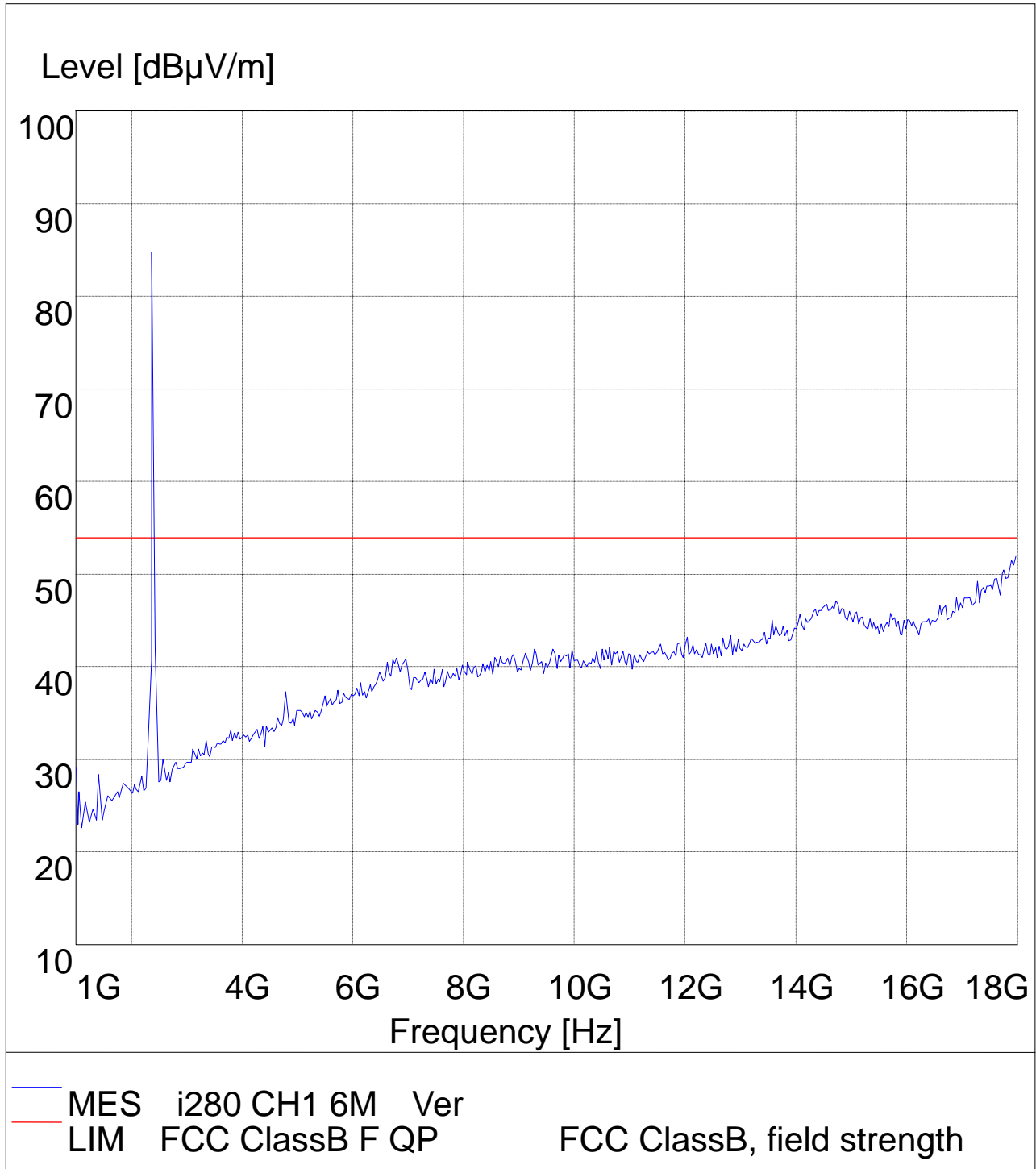
CH01 at 6Mbps: Horizontal



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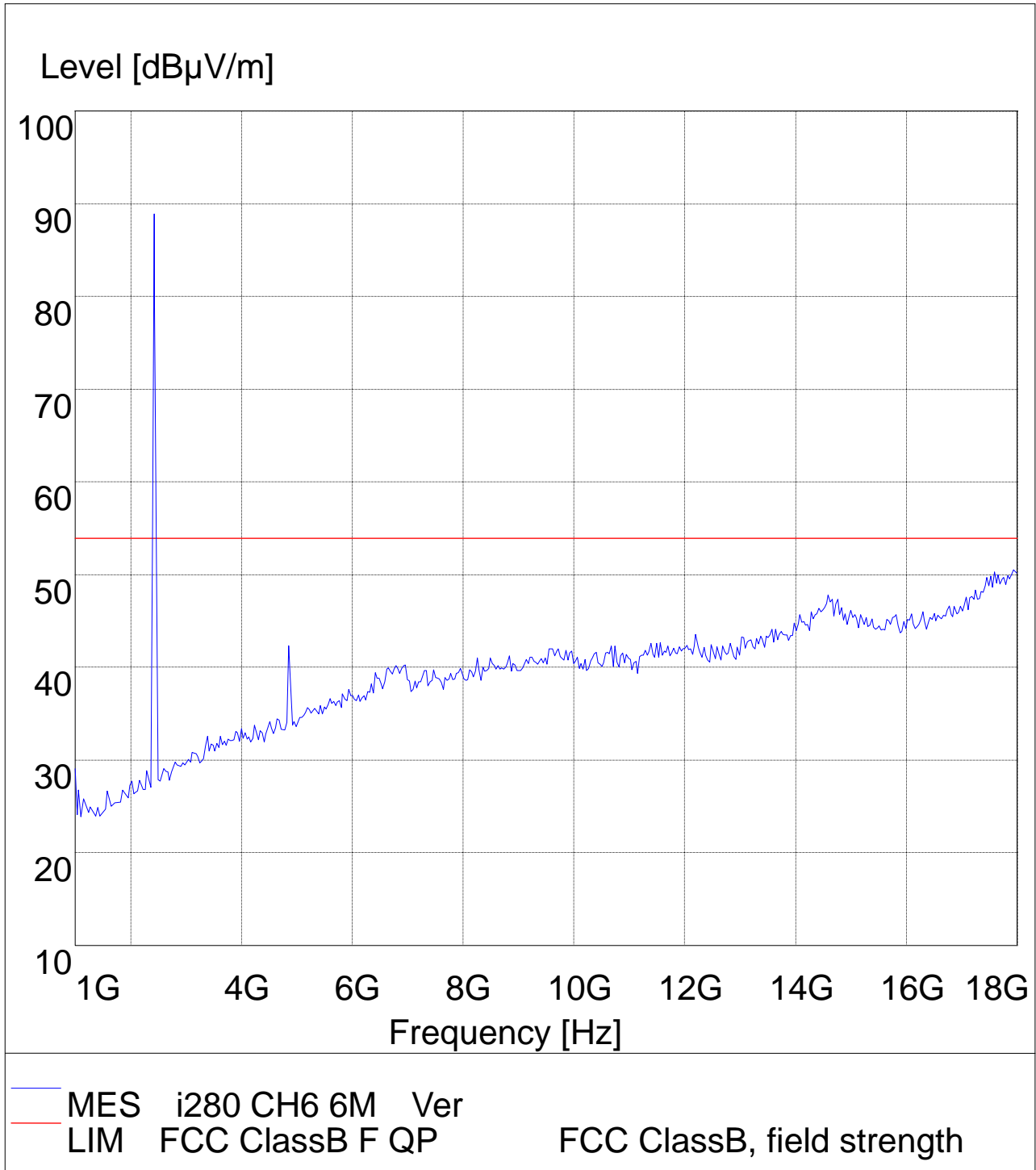
CH01 at 6Mbps: Veritcal



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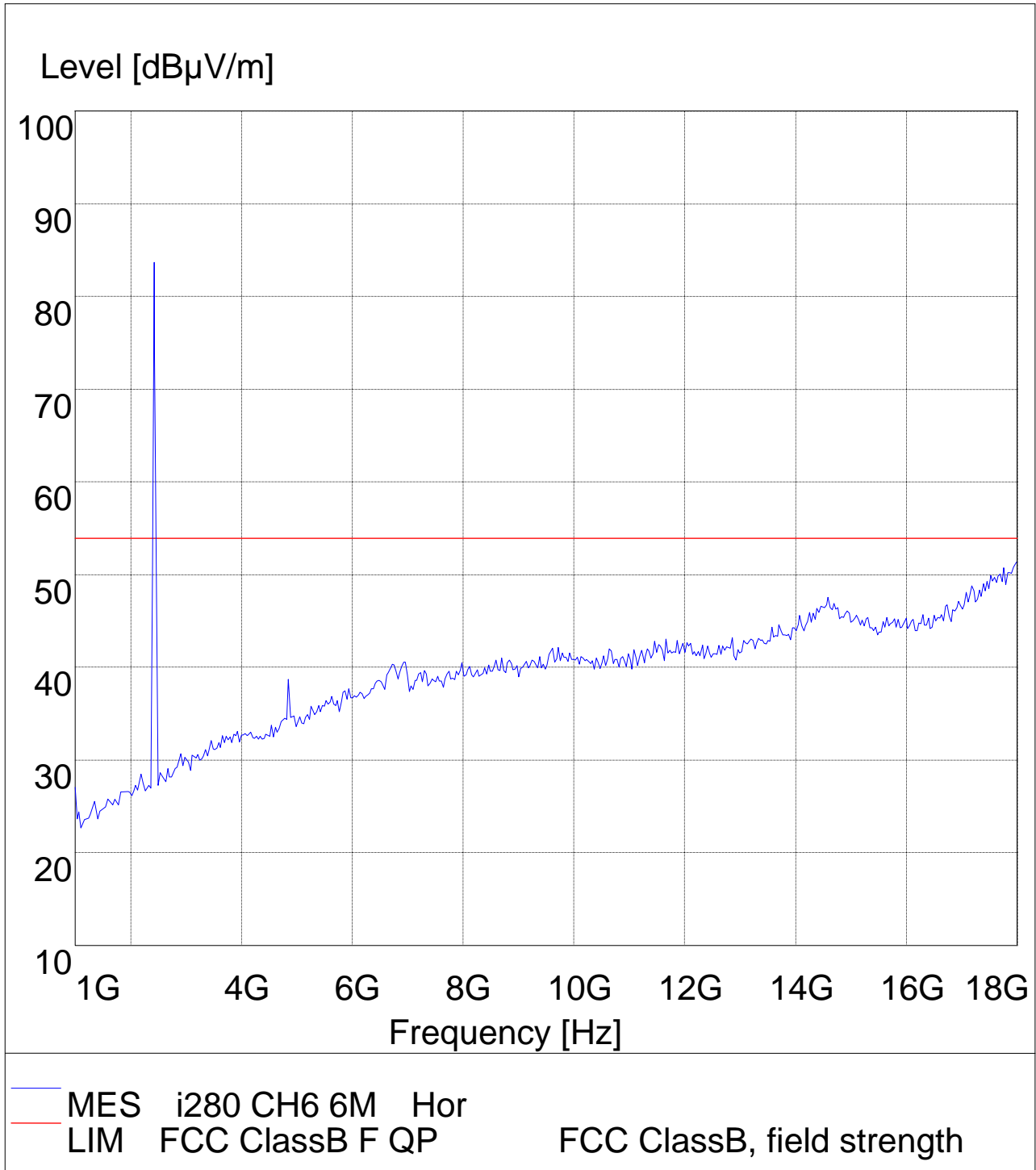
CH06 at 6Mbps: Vertical



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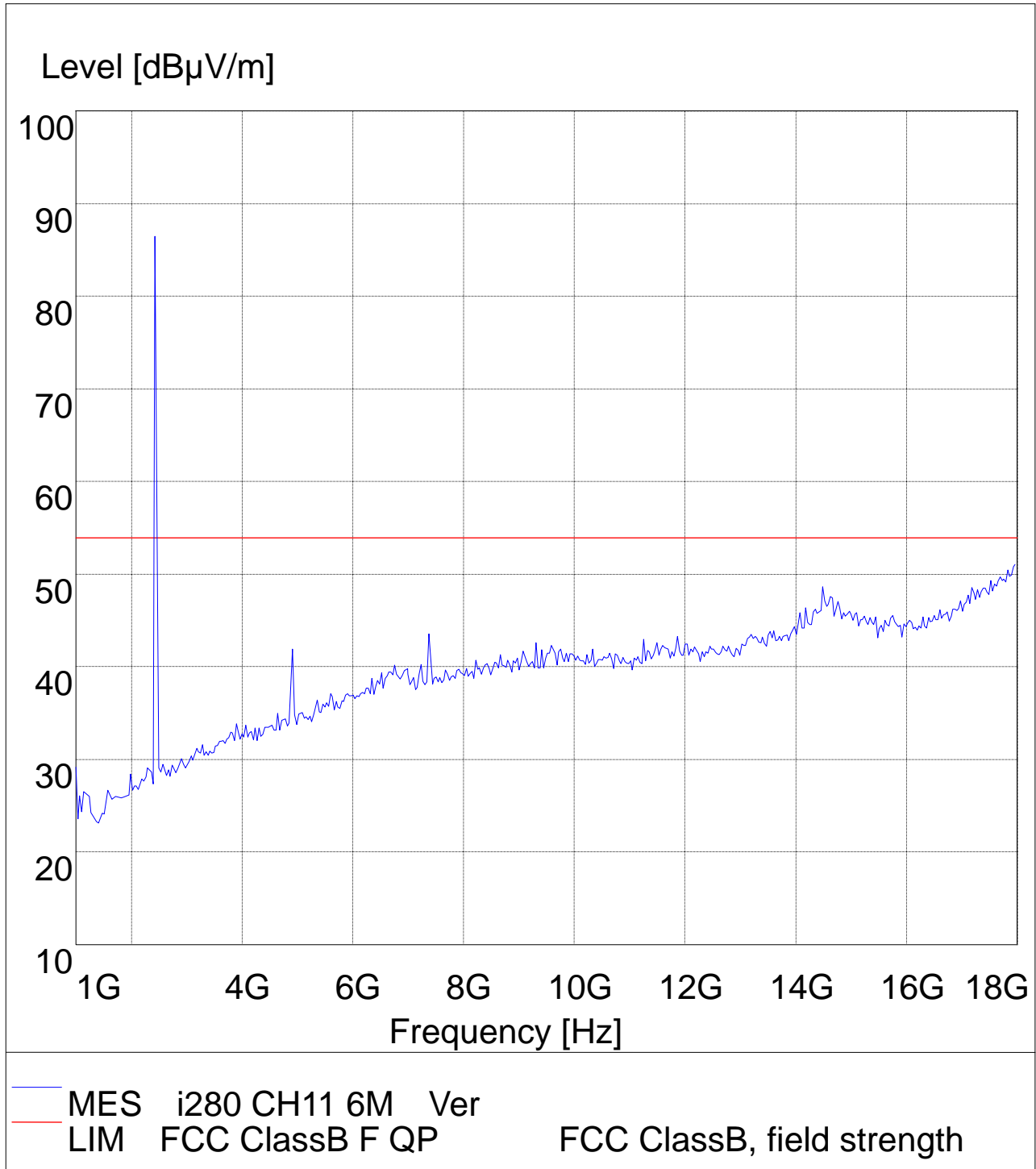
CH06 at 6Mbps: Horizontal



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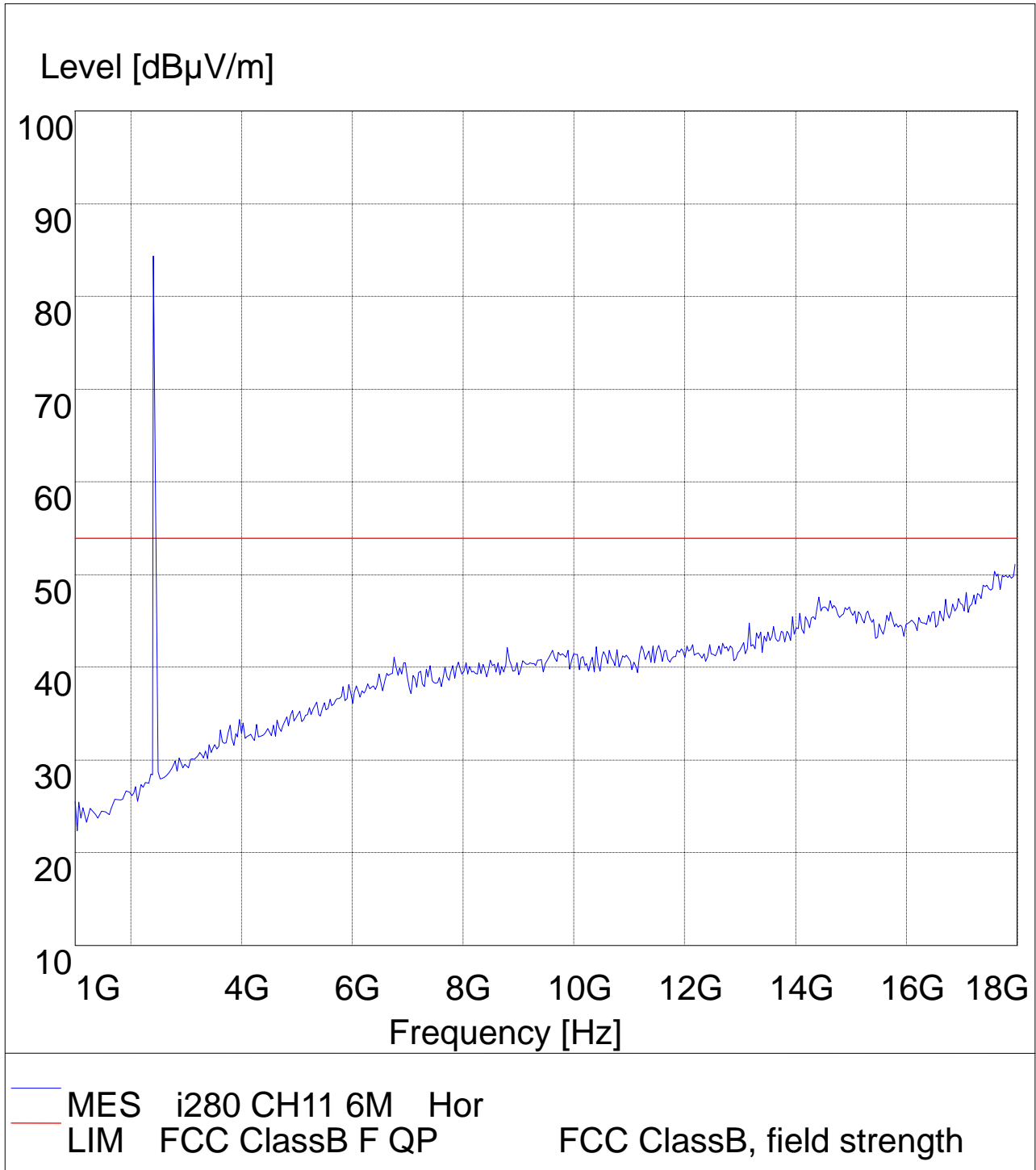
CH11 at 6Mbps: Vertical



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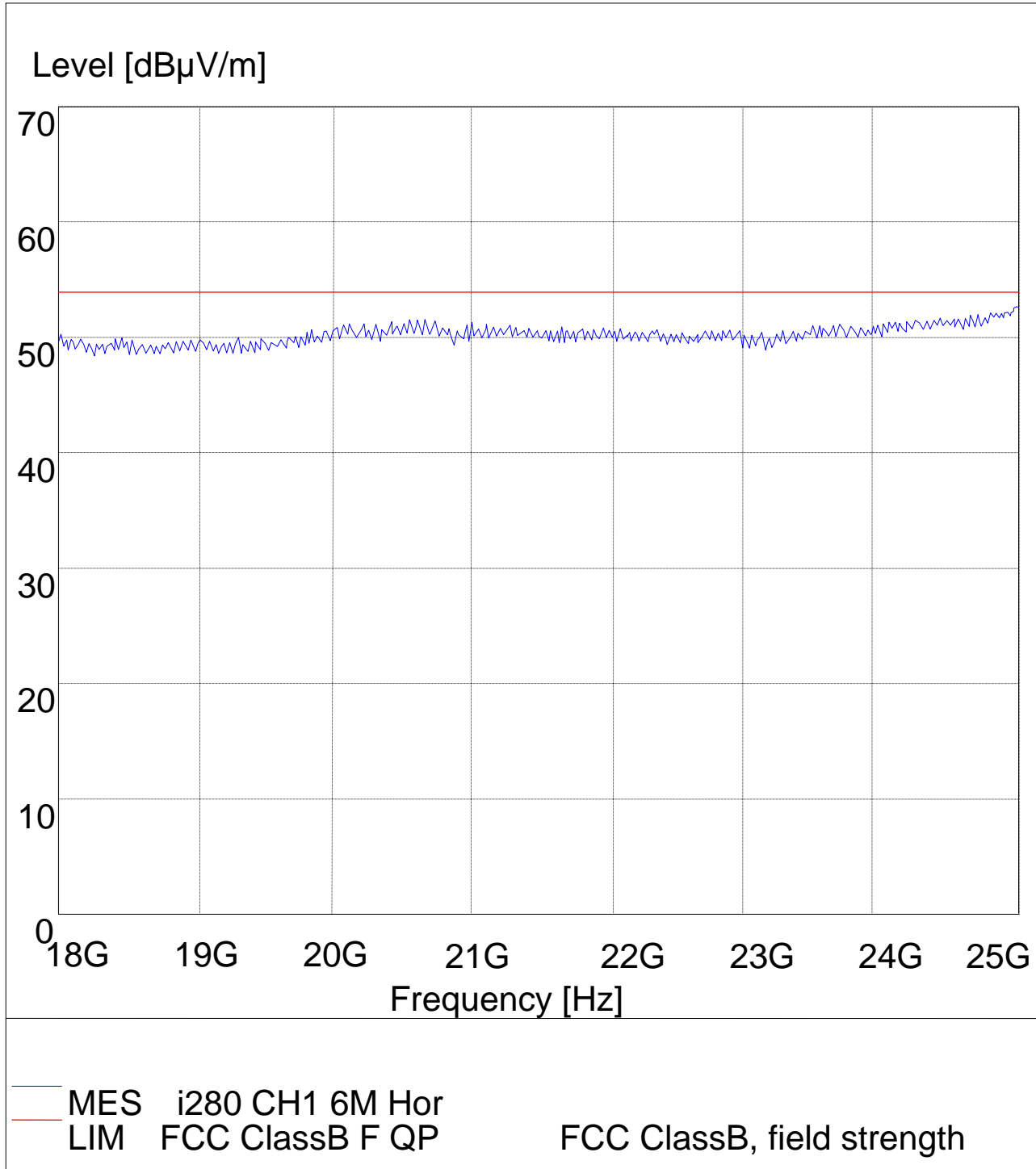
CH11at 6Mbps: Horizontal



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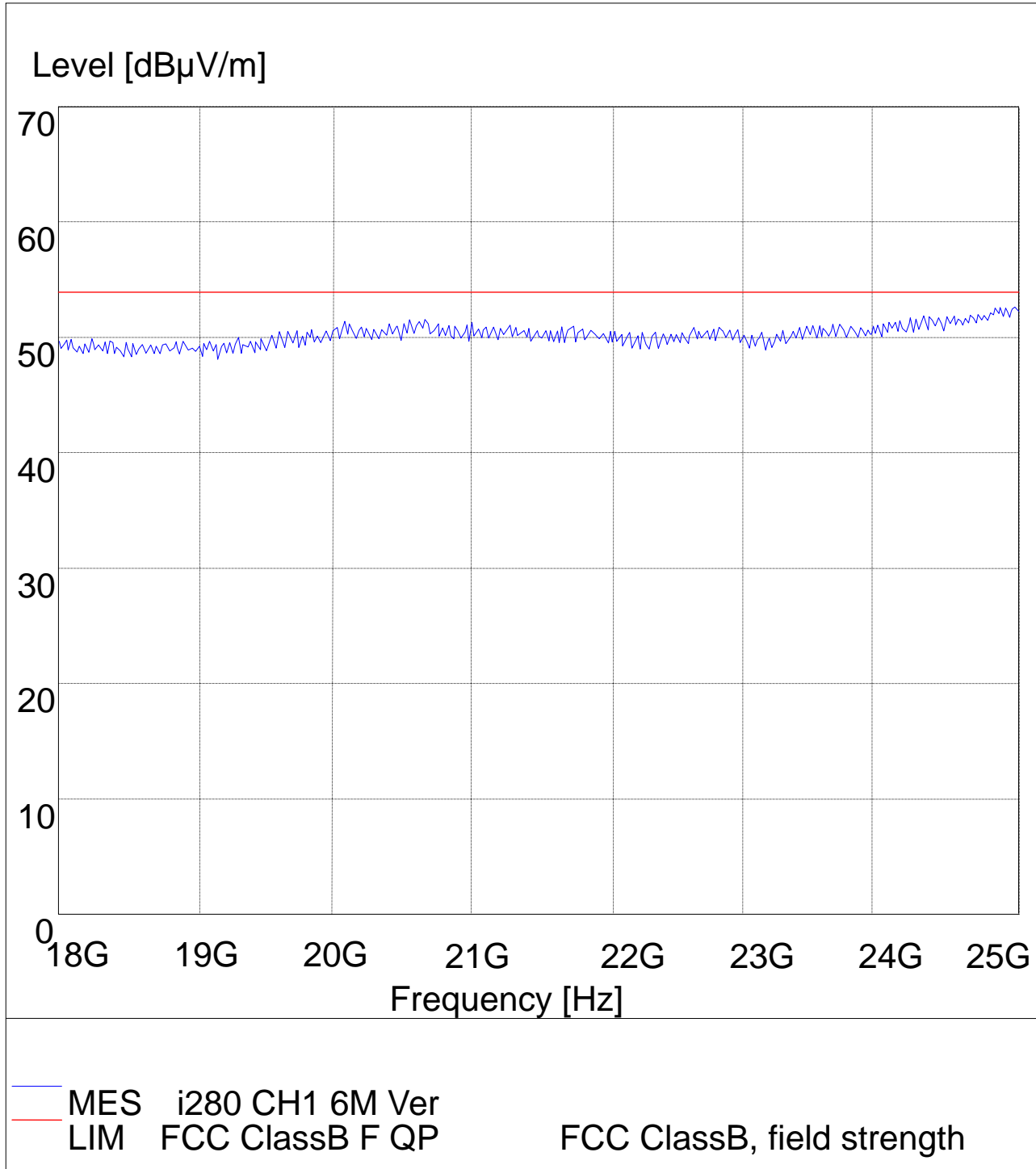
18-25G
CH1 6M Horizontal



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18-25G
CH1 6M Vertical



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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	84.3 (PK)/ 76.7(AV)	H	Fundamental Frequency
2412.00	88.5(PK)/80.6 (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	88.3(PK)/ 81.5 (AV)	H	Fundamental Frequency
2437.00	93.5(PK)/ 84.1 (AV)	V	
4874.00	52.6 (Peak)/43.8 (AV)	V	74(Peak)/ 54(AV)
4874.00	50.8 (Peak)/42.7 (AV)	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 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	86.4 (PK) /77.9(AV)	H	Fundamental Frequency
2462.00	90.2 (PK) /82.6 (AV)	V	
4924	51.6 (Peak)/ 43.2 (AV)	V	74(Peak)/ 54(AV)
4924	50.8 (Peak)/ 42.6 (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)

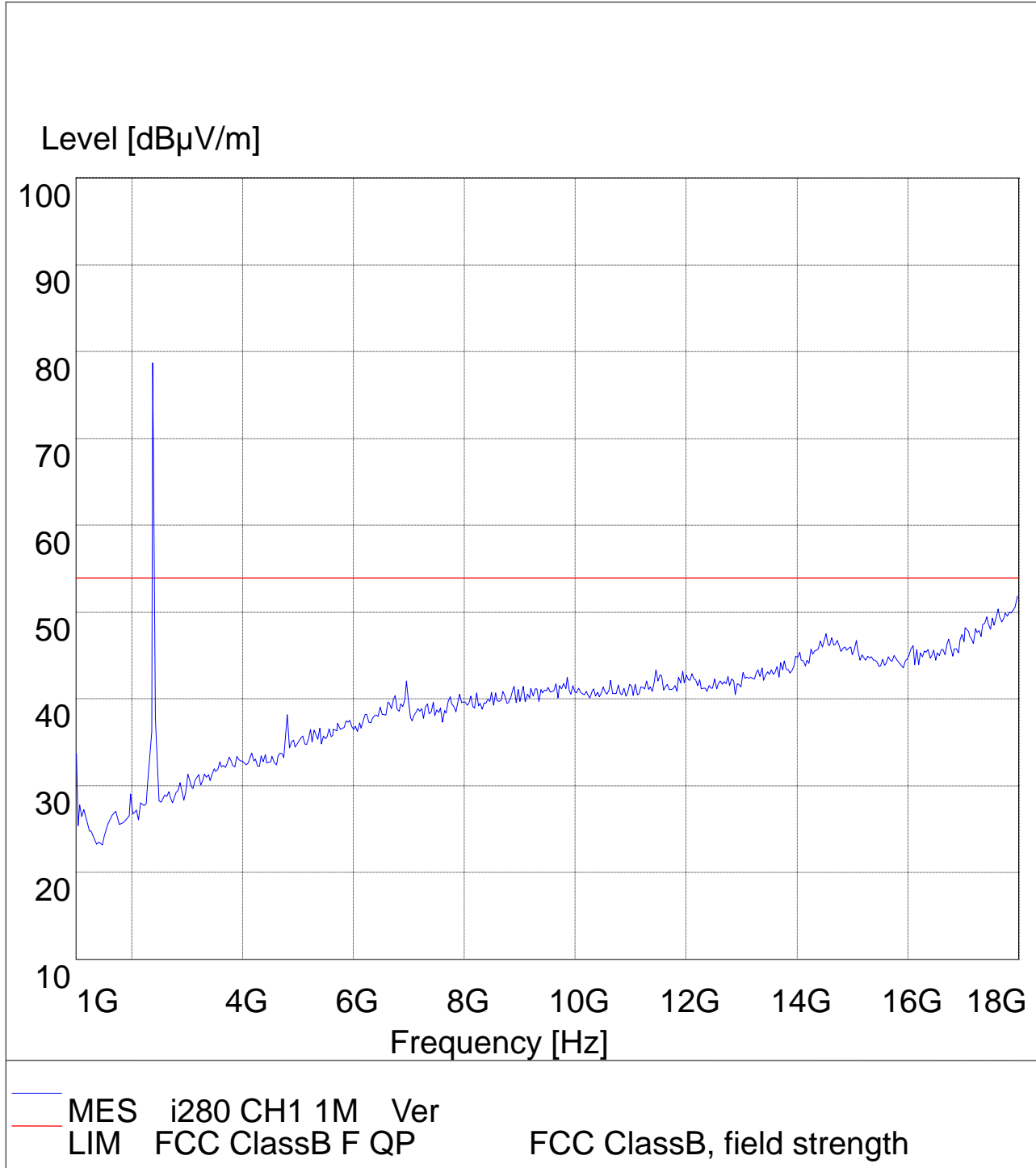
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
 2. Remark “---” means that the emissions level is too low to be measured
 3. For 802.11b mode at 1Mbps

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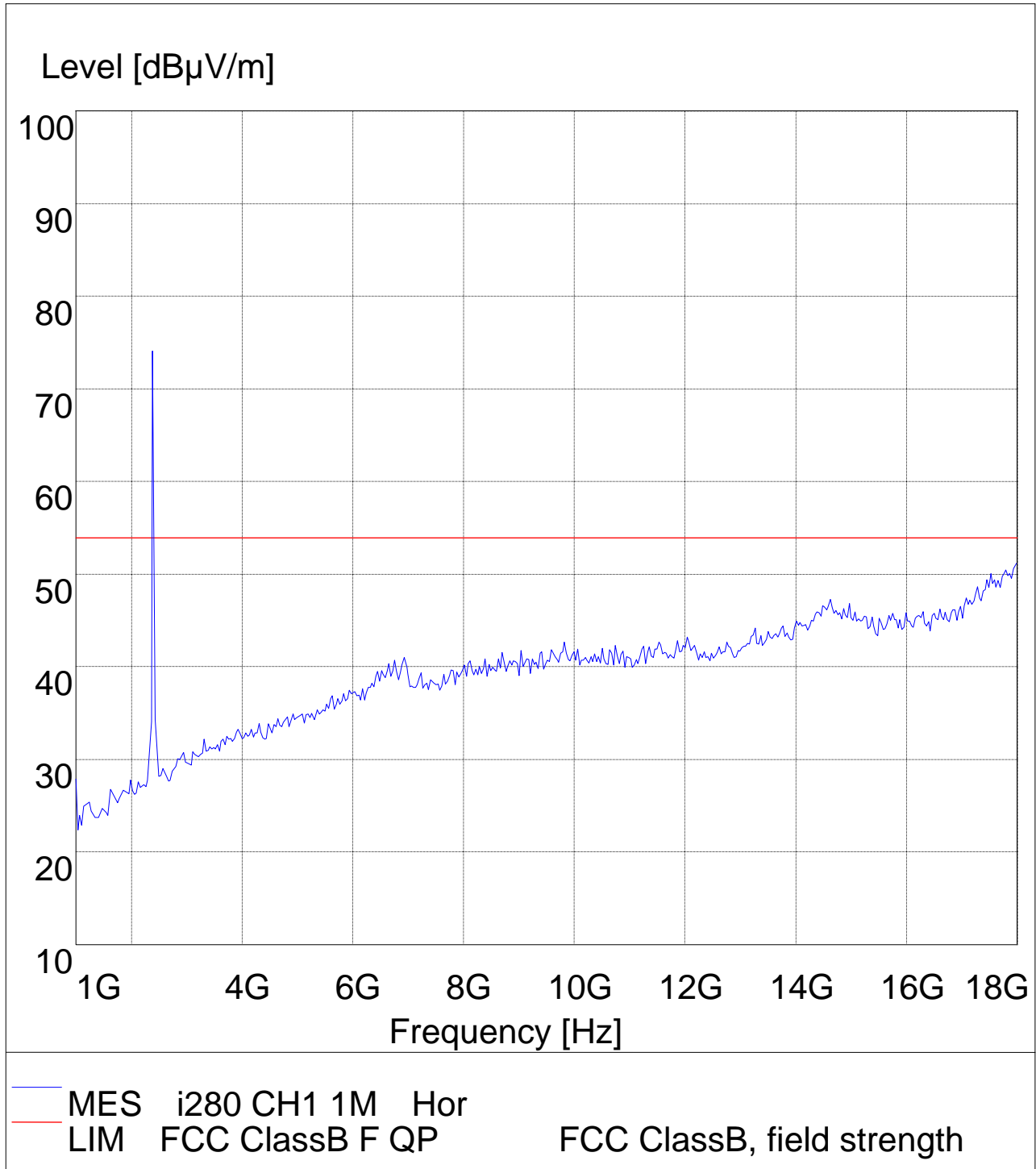
CH01 at 1Mbps: Vertical



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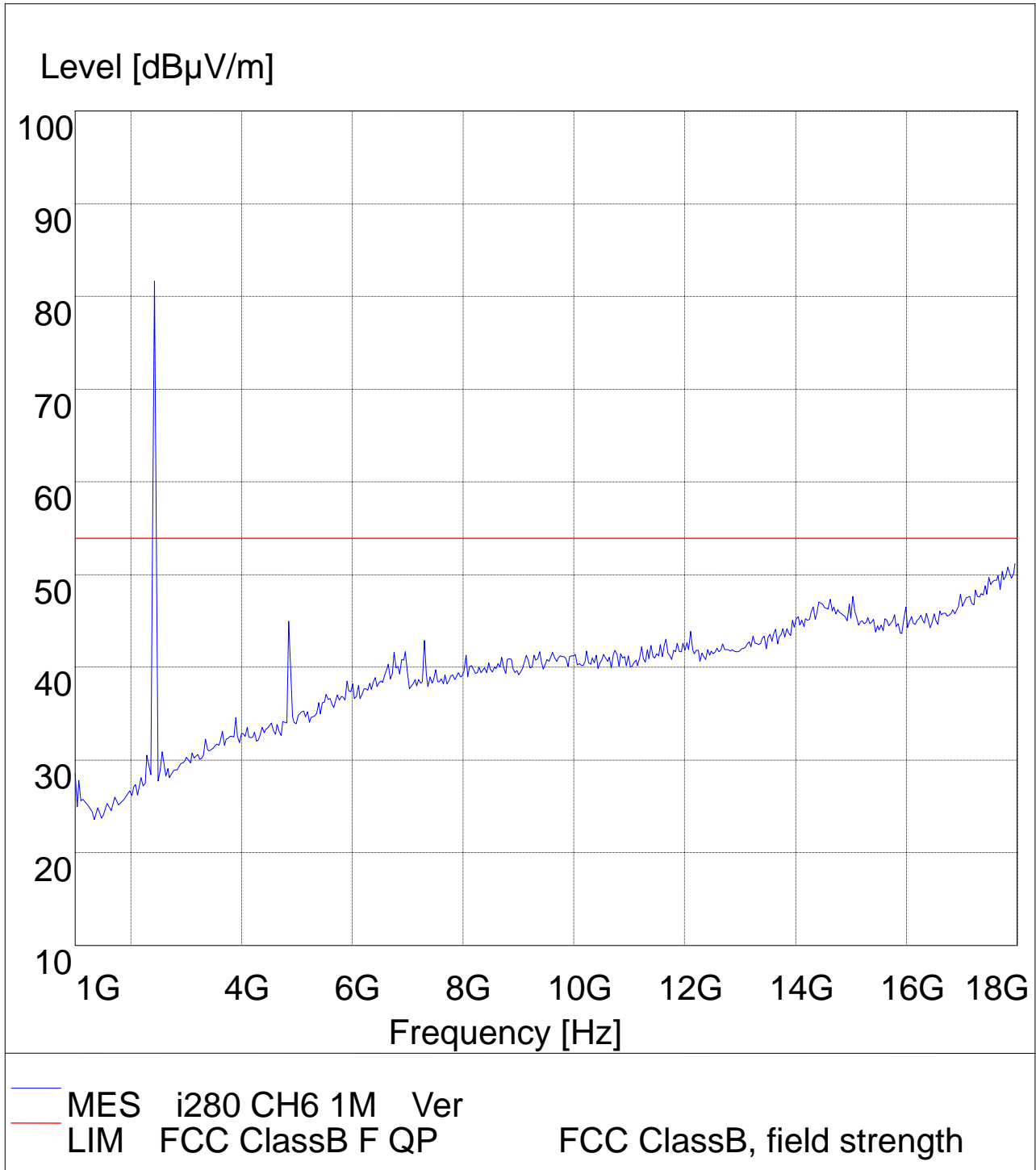
CH01 at 1Mbps: Horizontal



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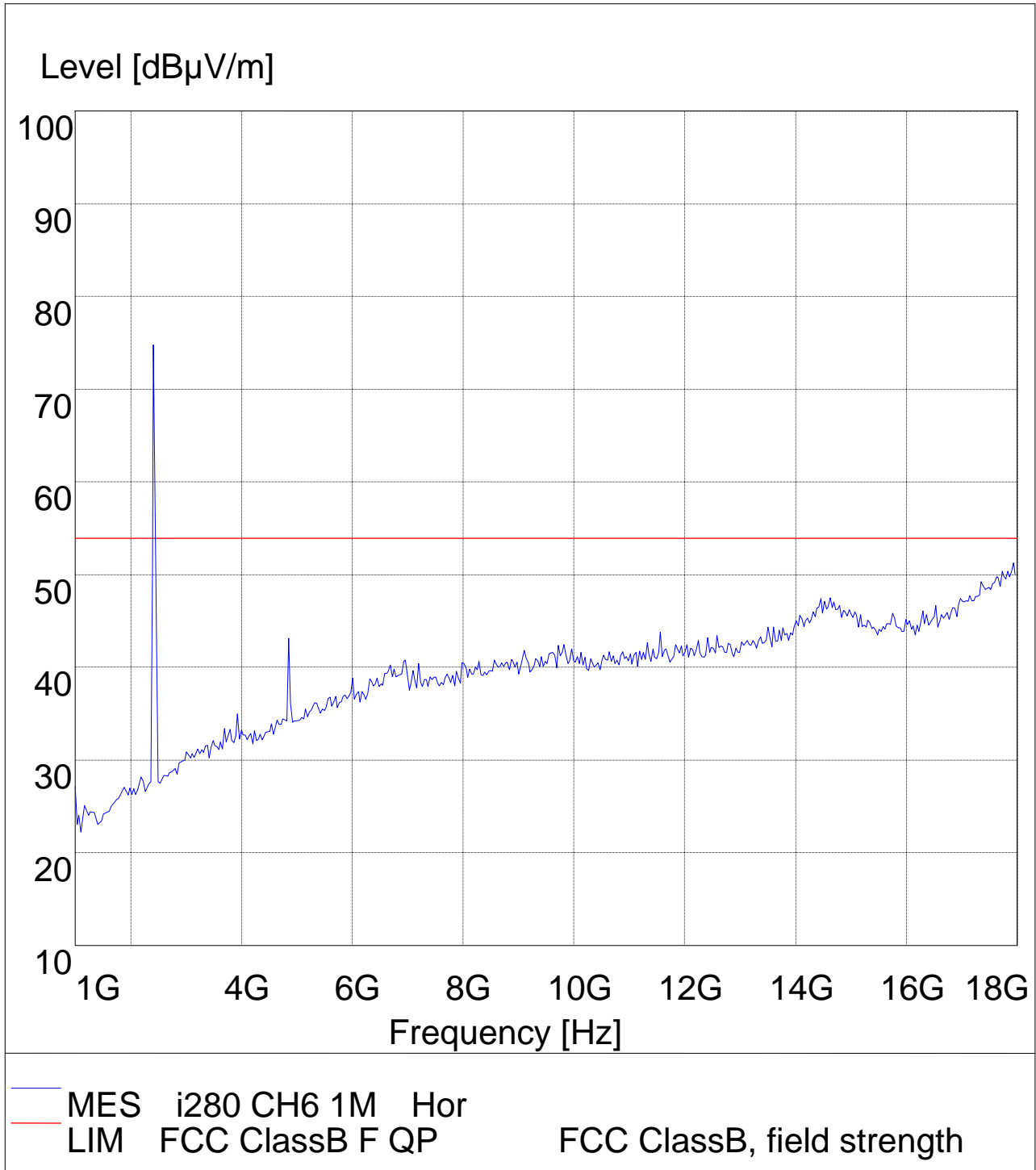
CH06 at 1Mbps: Vertical



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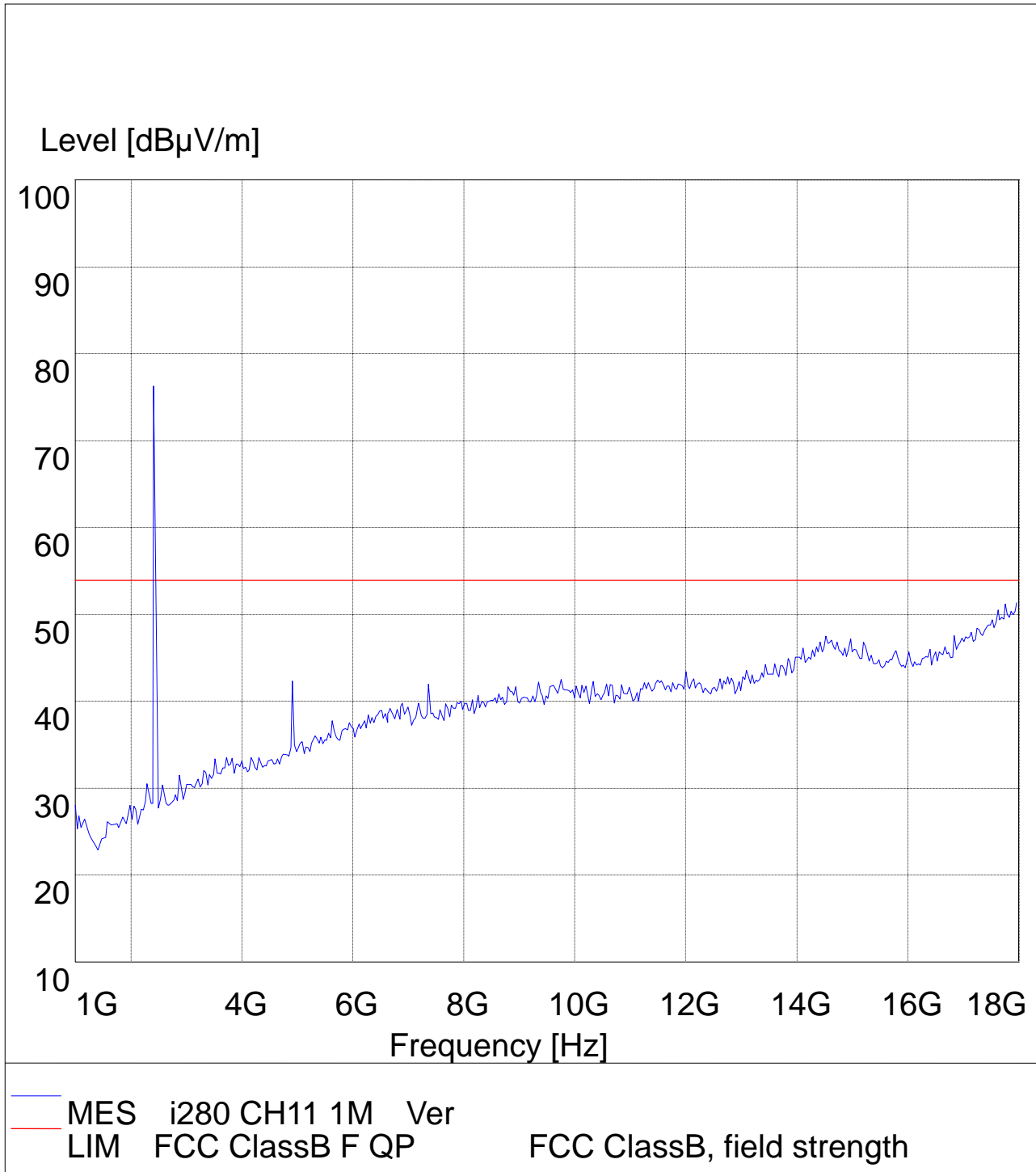
CH06 at 1Mbps: Horizontal



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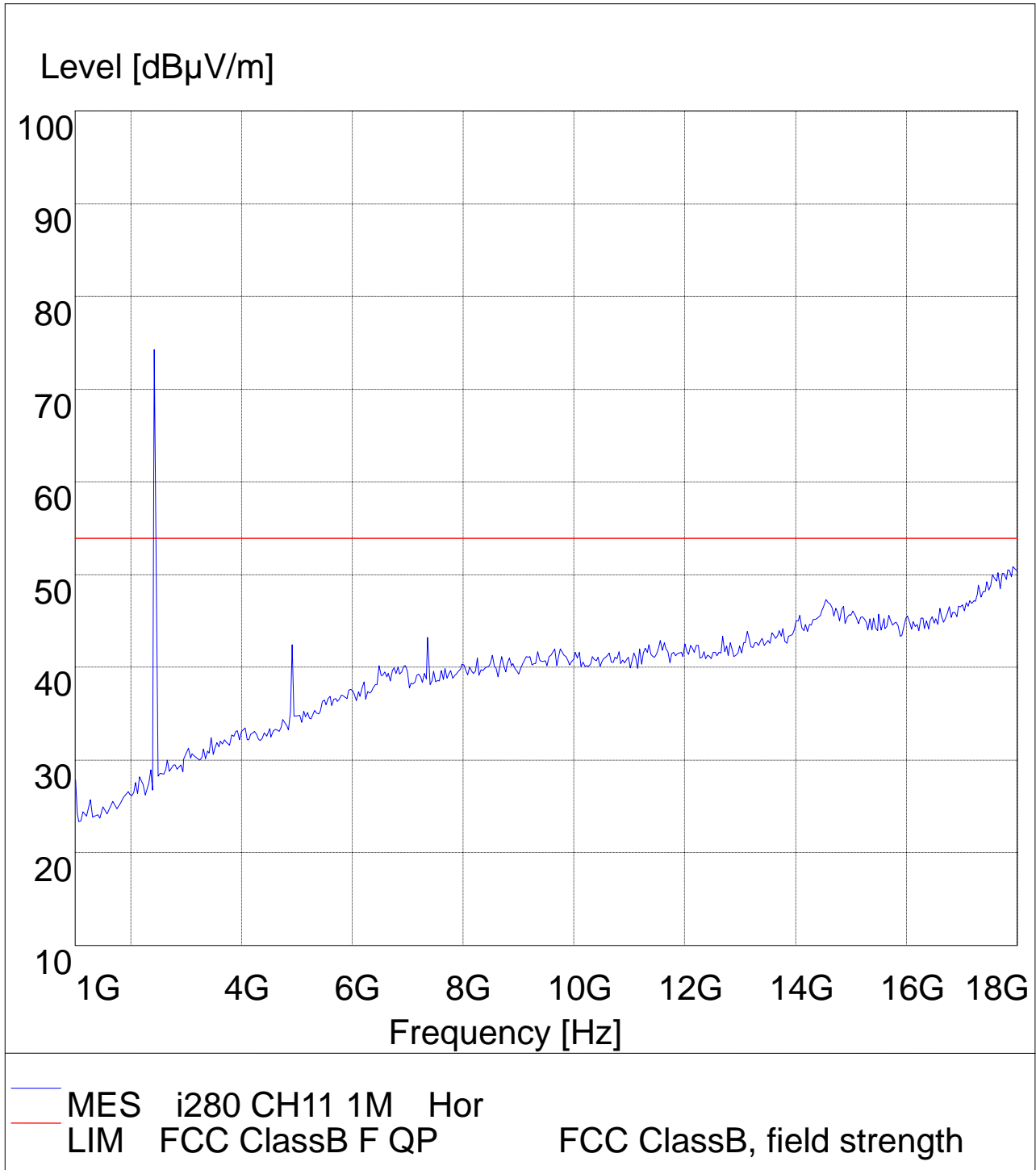
CH11 at 1Mbps: Vertical



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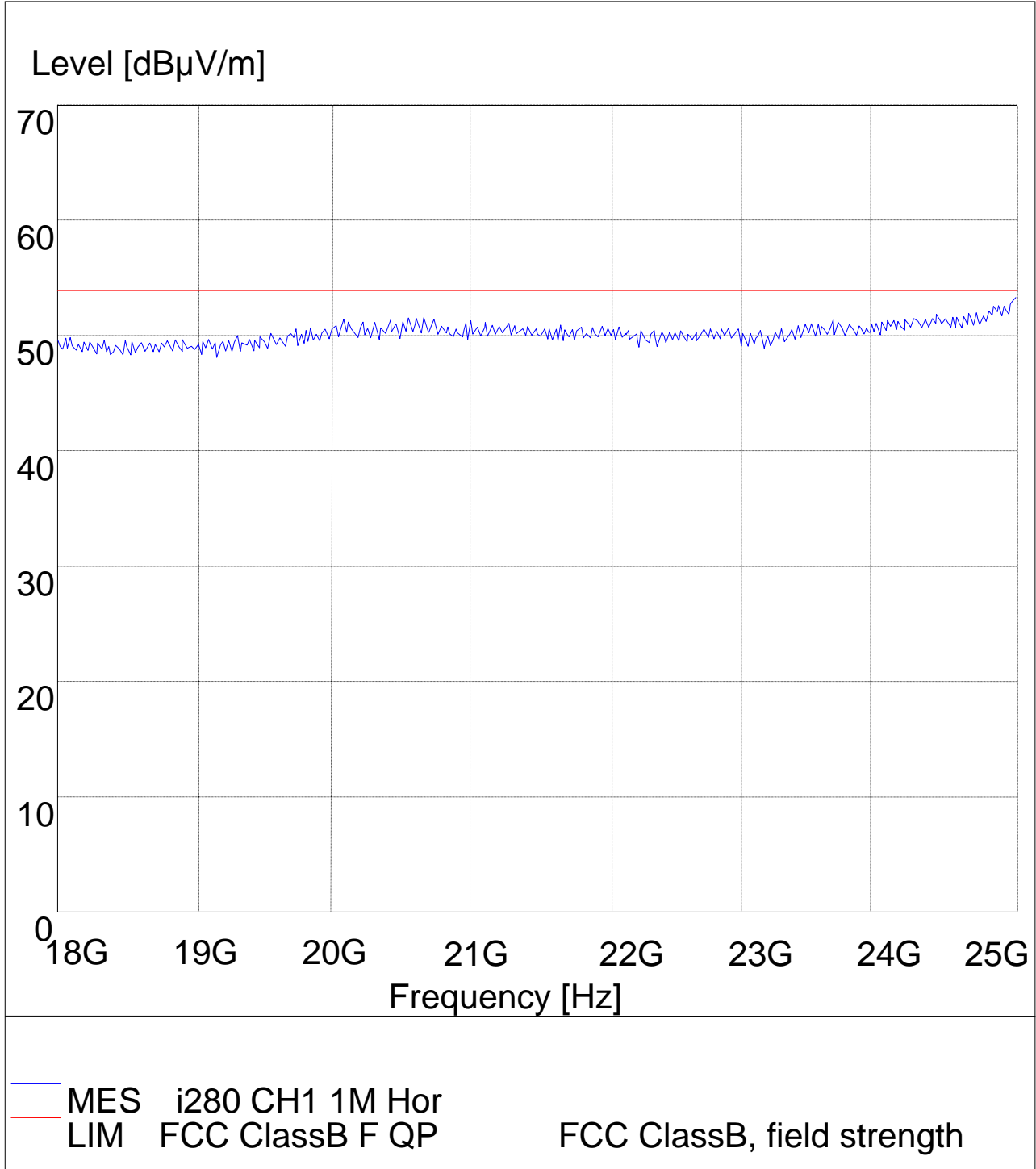
CH11 at 1Mbps: Horizontal



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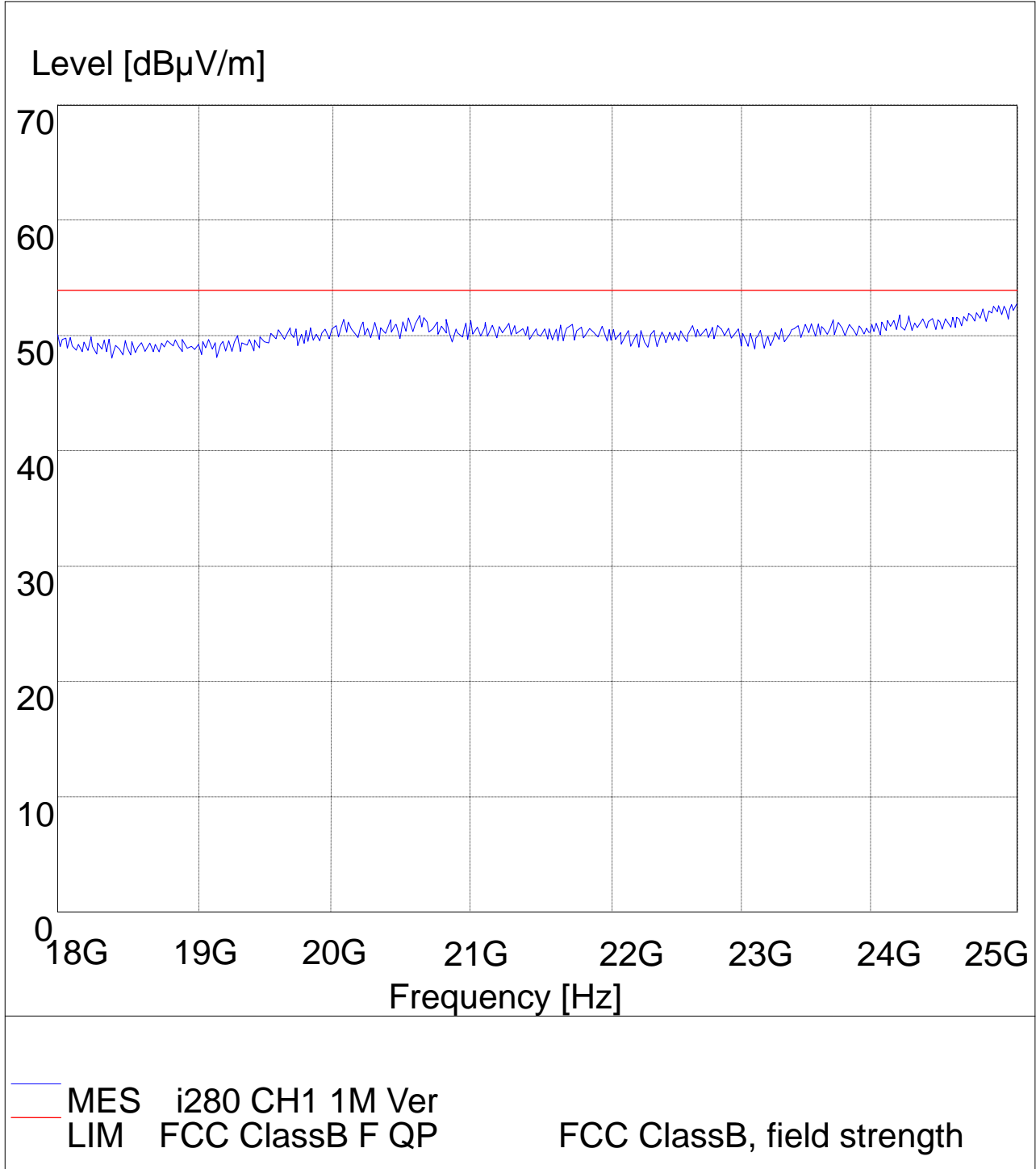
18-25G
CH1 1M Horizontal



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18-25G
CH1 1M Vertical

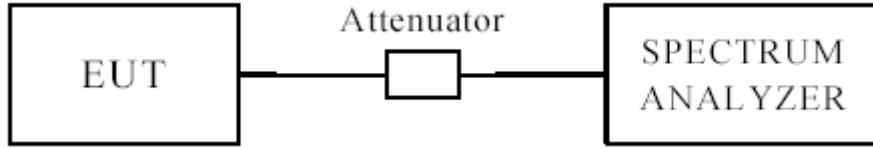


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7.0 6dB Bandwidth Measurement

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	WiFi PMP		Model	i280	
Mode	802.11b		Input Voltage	DC3.7V	
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	10.10	0.5	Pass
		11	10.60		
6	2437	1	9.98	0.5	Pass
		11	9.98		
11	2462	1	10.06	0.5	Pass
		11	10.02		

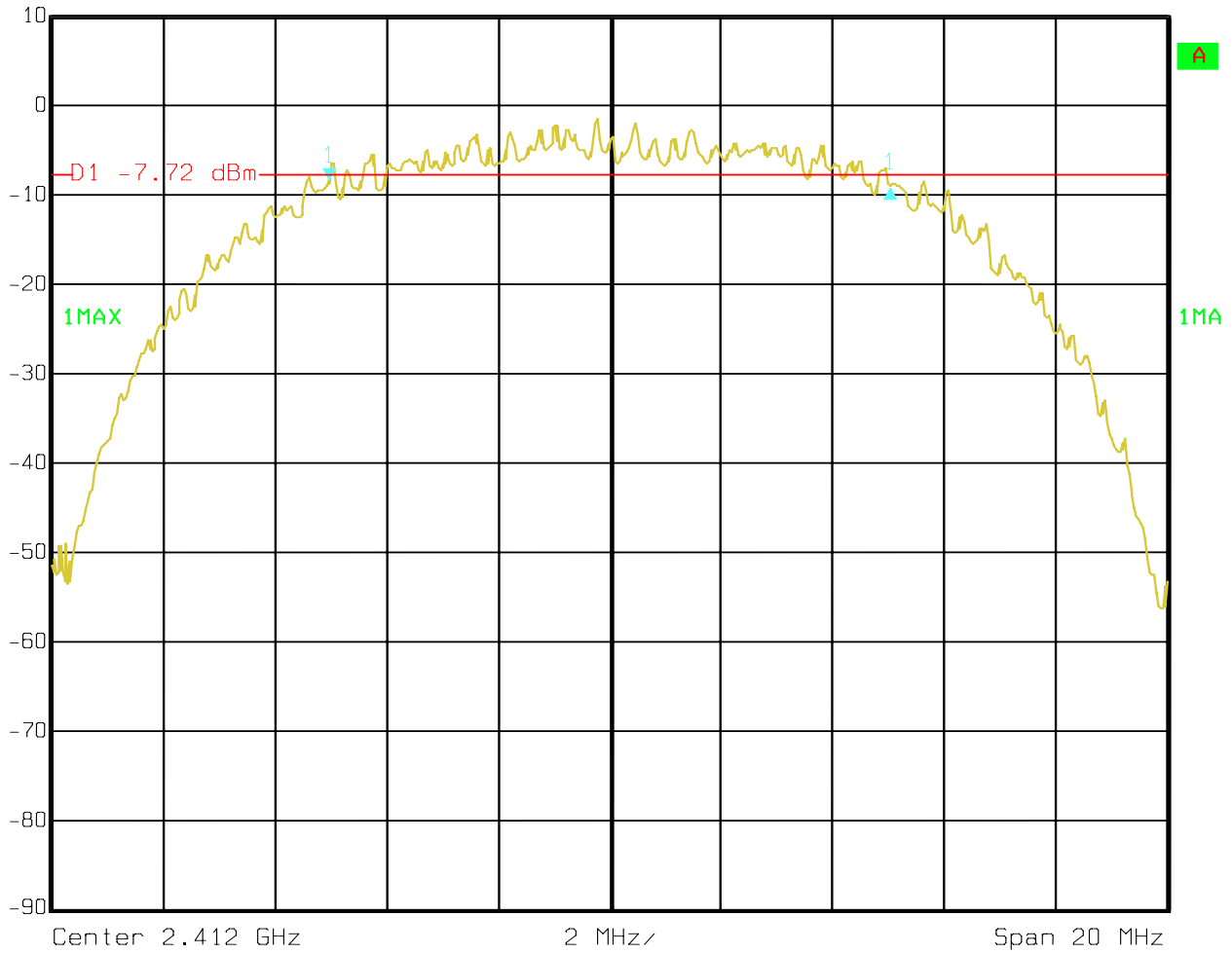
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Test Figure:

1. Condition: 802.11b at 11Mbps of CH01

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	-0.70 dB	VBW	100 kHz	
	10 dBm	10.06012024 MHz	SWT	5 ms	Unit



Date: 16.NOV.2007 11:16:10

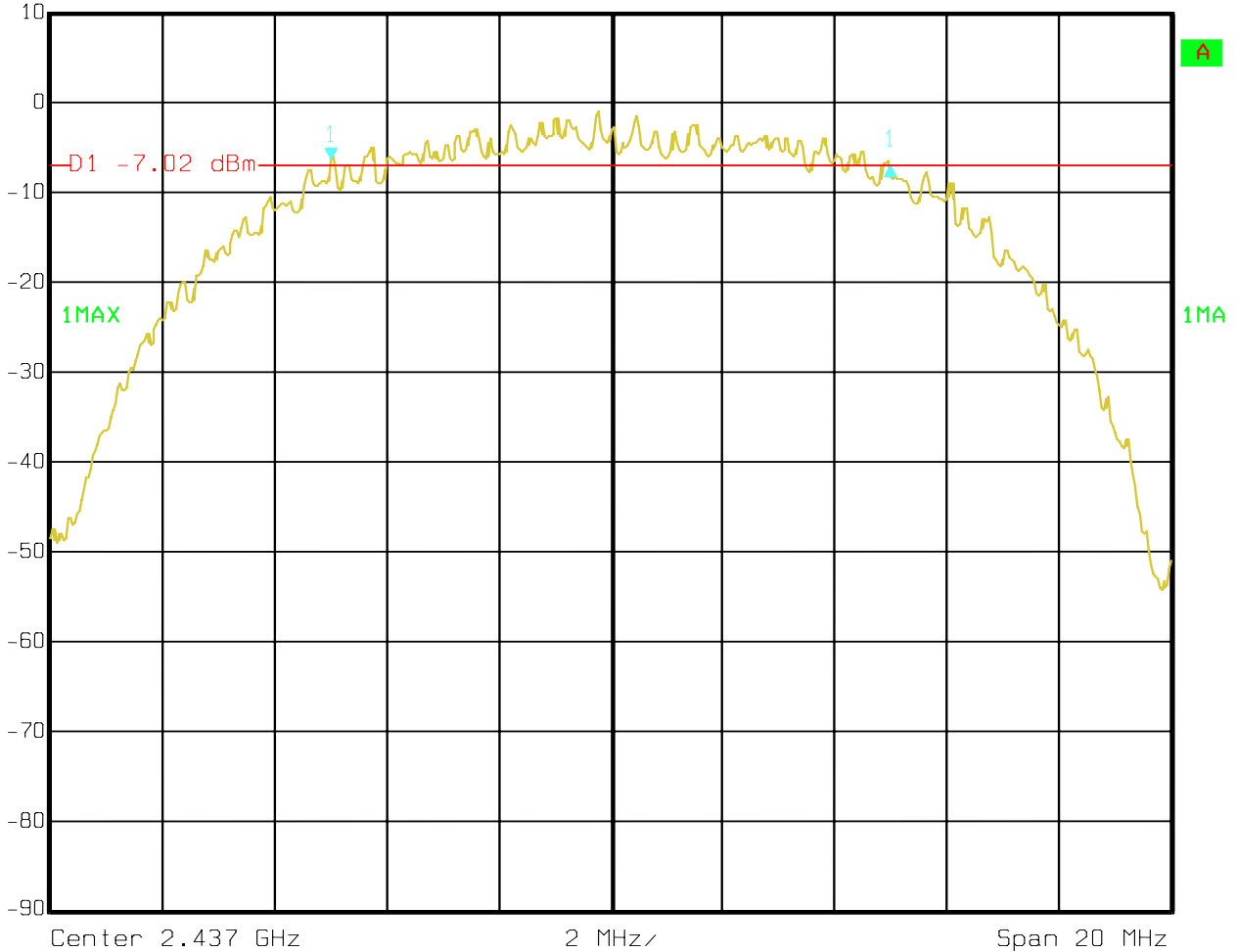
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2. Condition: 802.11b at 11Mbps of CH06



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	-0.53 dB	VBW	100 kHz	Unit	dBm
	9.97995992 MHz	SWT	5 ms		



Date: 16.NOV.2007 10:54:14

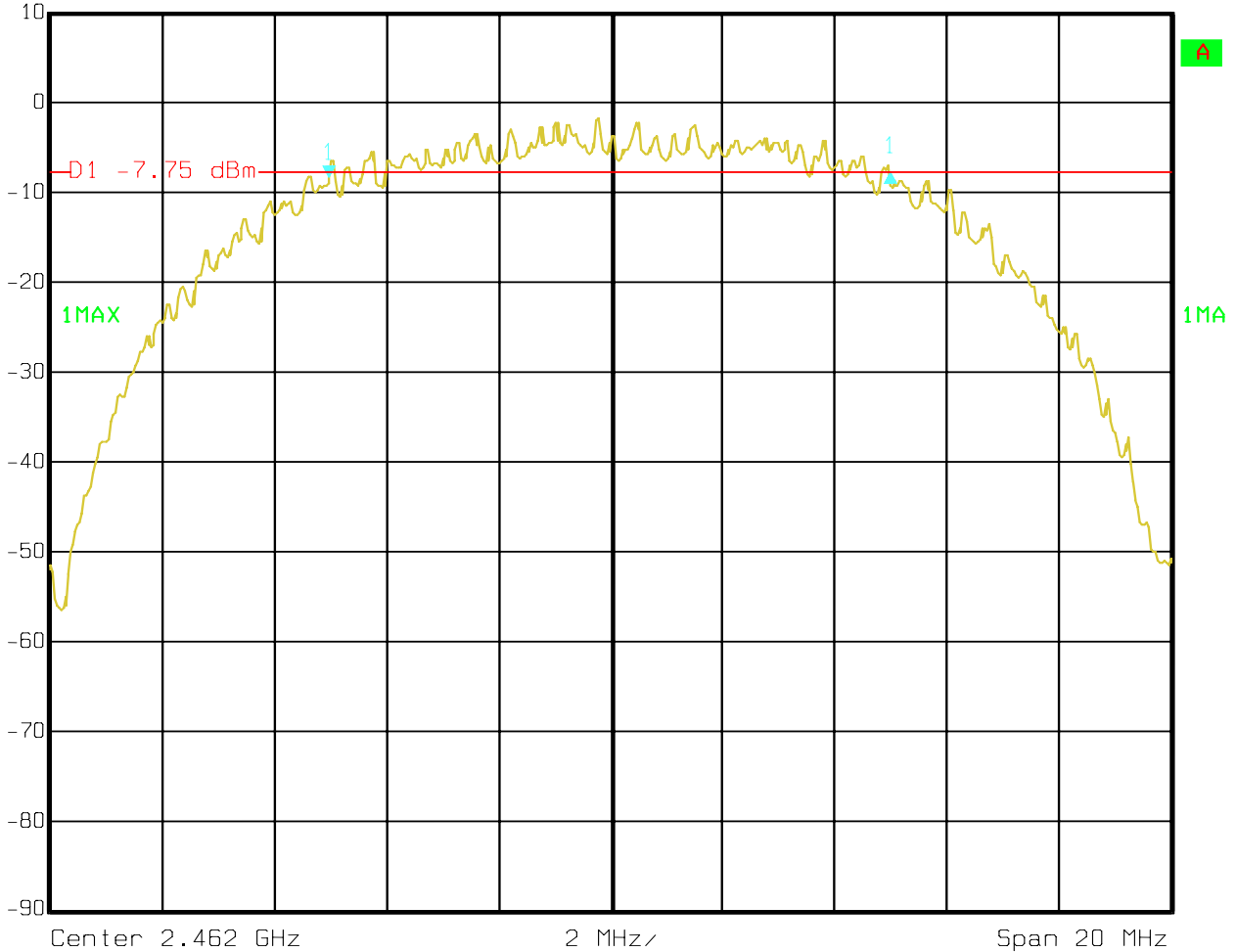
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3. 802.11b at 11Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	0.64 dB	VBW	100 kHz	Unit	dBm
	10.02004008 MHz	SWT	5 ms		



Date: 16.NOV.2007 10:52:14

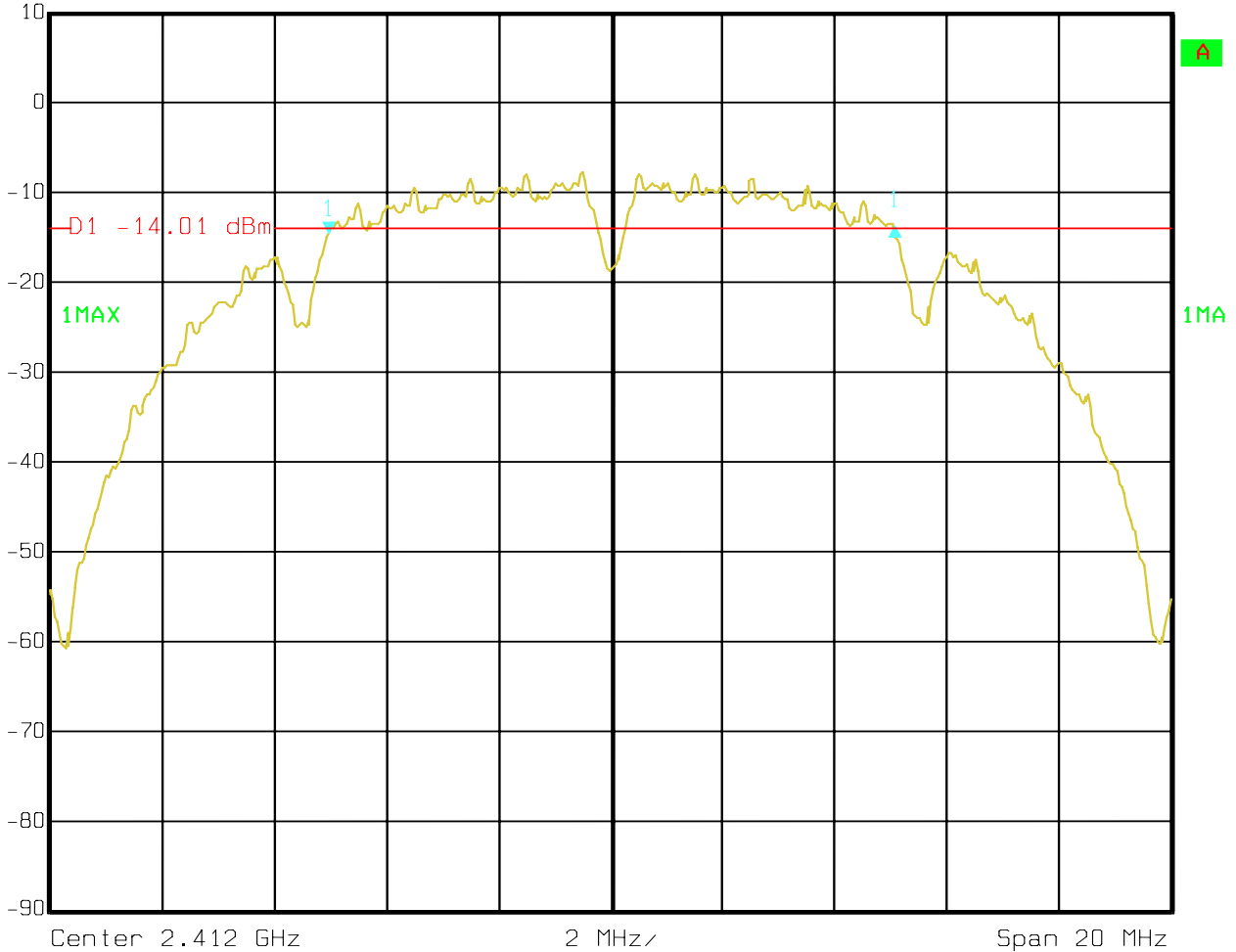
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4. 802.11b at 1Mbps of CH01



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	0.81 dB	VBW	100 kHz	Unit	dBm
	10.10020040 MHz	SWT	5 ms		



Date: 16.NOV.2007 10:44:09

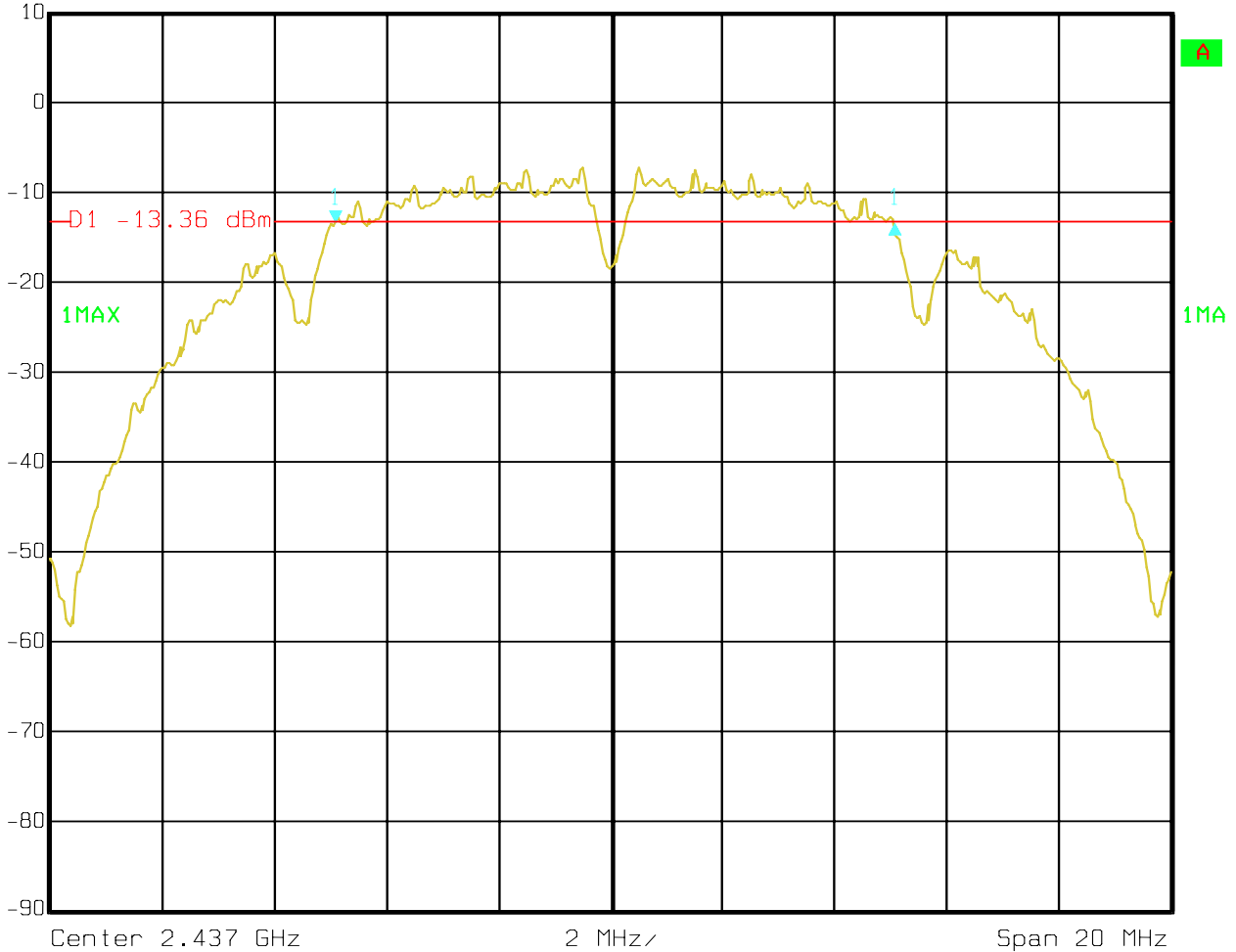
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5. 802.11b at 1Mbps of CH06



Delta 1 [T1] RBW 100 kHz RF Att 20 dB
Ref Lvl -0.01 dB VBW 100 kHz
10 dBm 9.97995992 MHz SWT 5 ms Unit dBm



Date: 16.NOV.2007 10:48:03

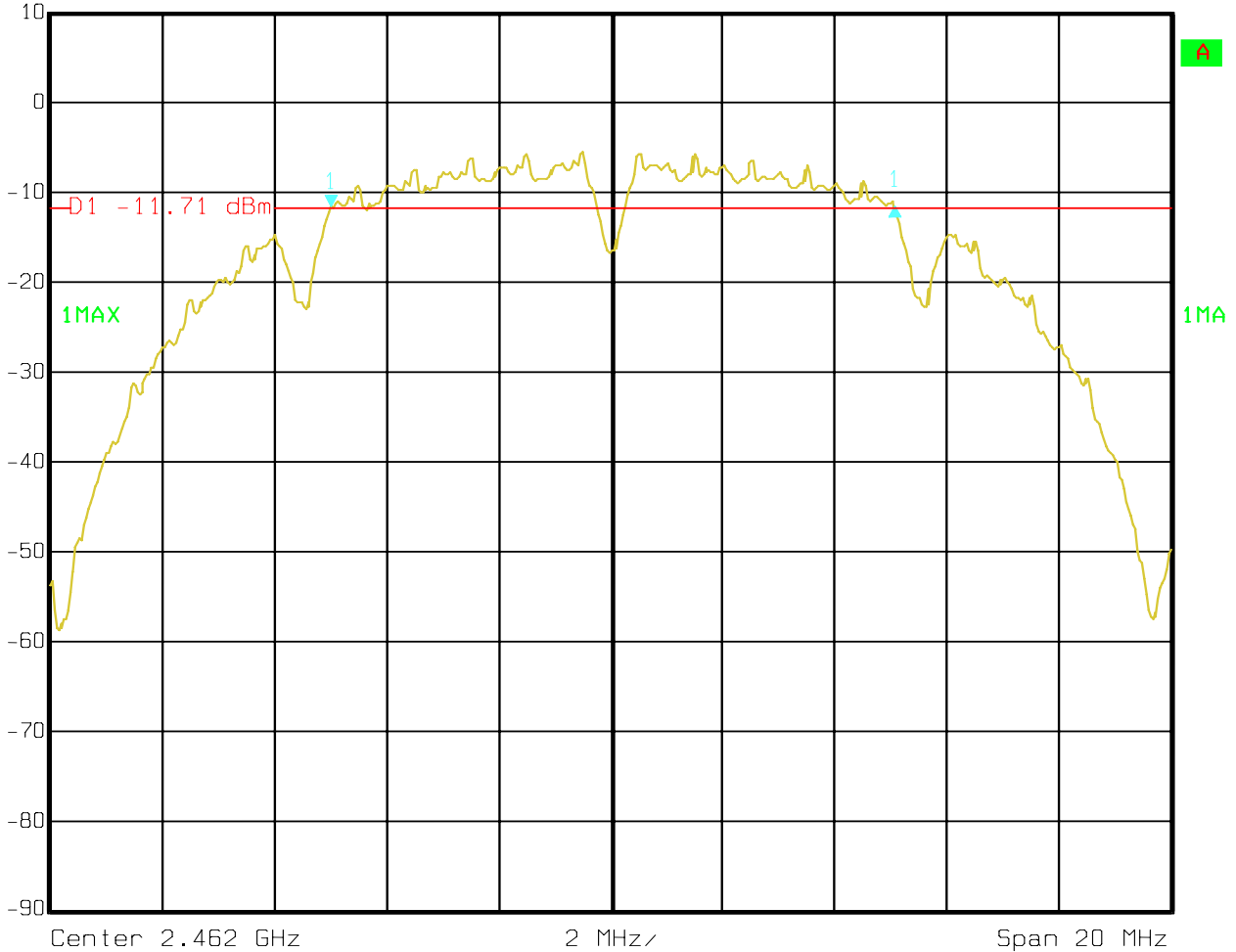
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6. 802.11b at 1Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	0.25 dB	VBW	100 kHz	Unit	dBm
	10.06012024 MHz	SWT	5 ms		



Date: 16.NOV.2007 10:49:59

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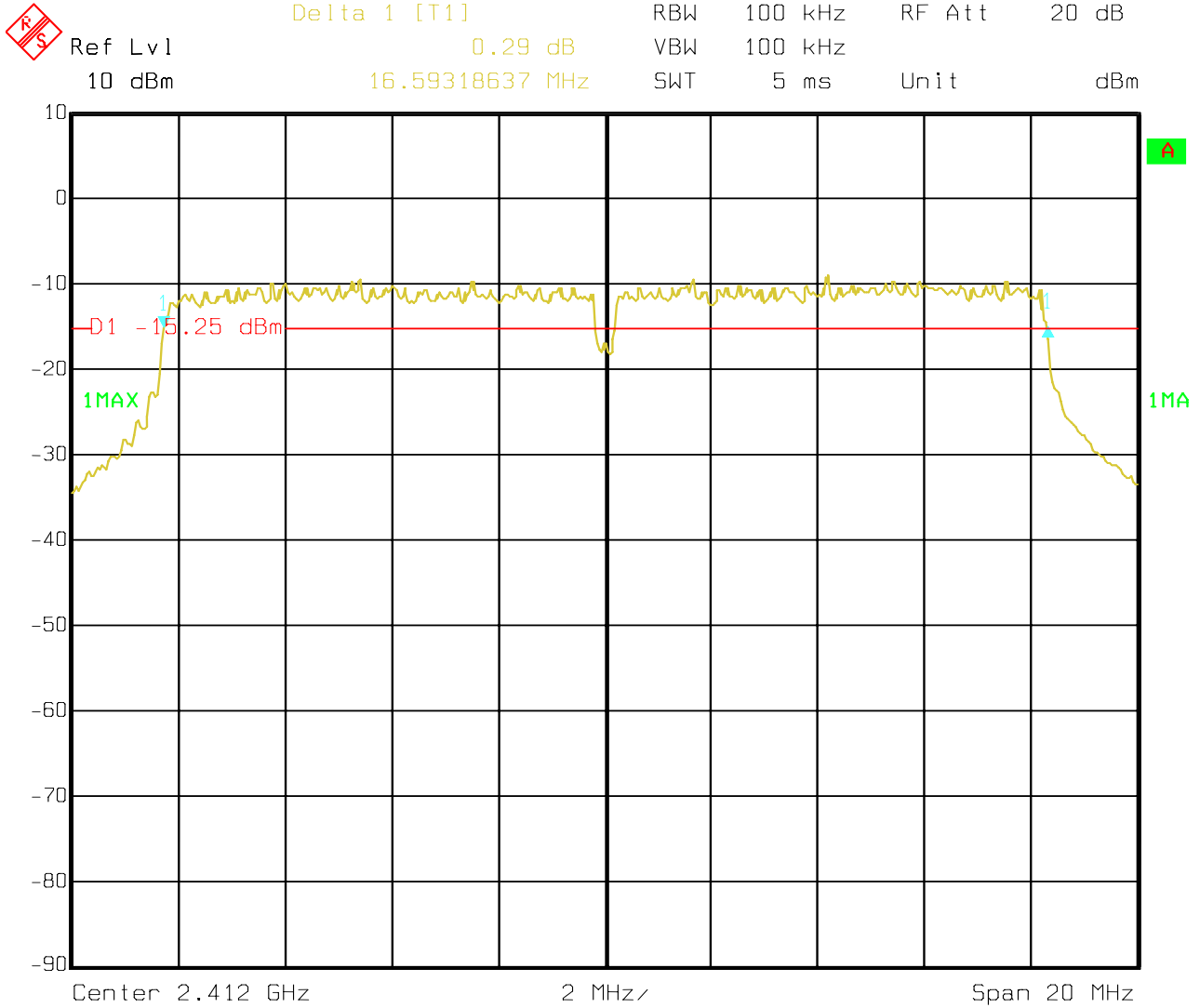
EUT		WiFi PMP		Model	i280
Mode		802.11g		Input Voltage	DC3.7V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/Fail
1	2412	6	16.59	0.5	Pass
		54	16.59		
6	2437	6	16.59	0.5	Pass
		54	16.59		
11	2462	6	16.59	0.5	Pass
		54	16.59		

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Test Plots:

1. 802.11g at 6Mbps of CH01

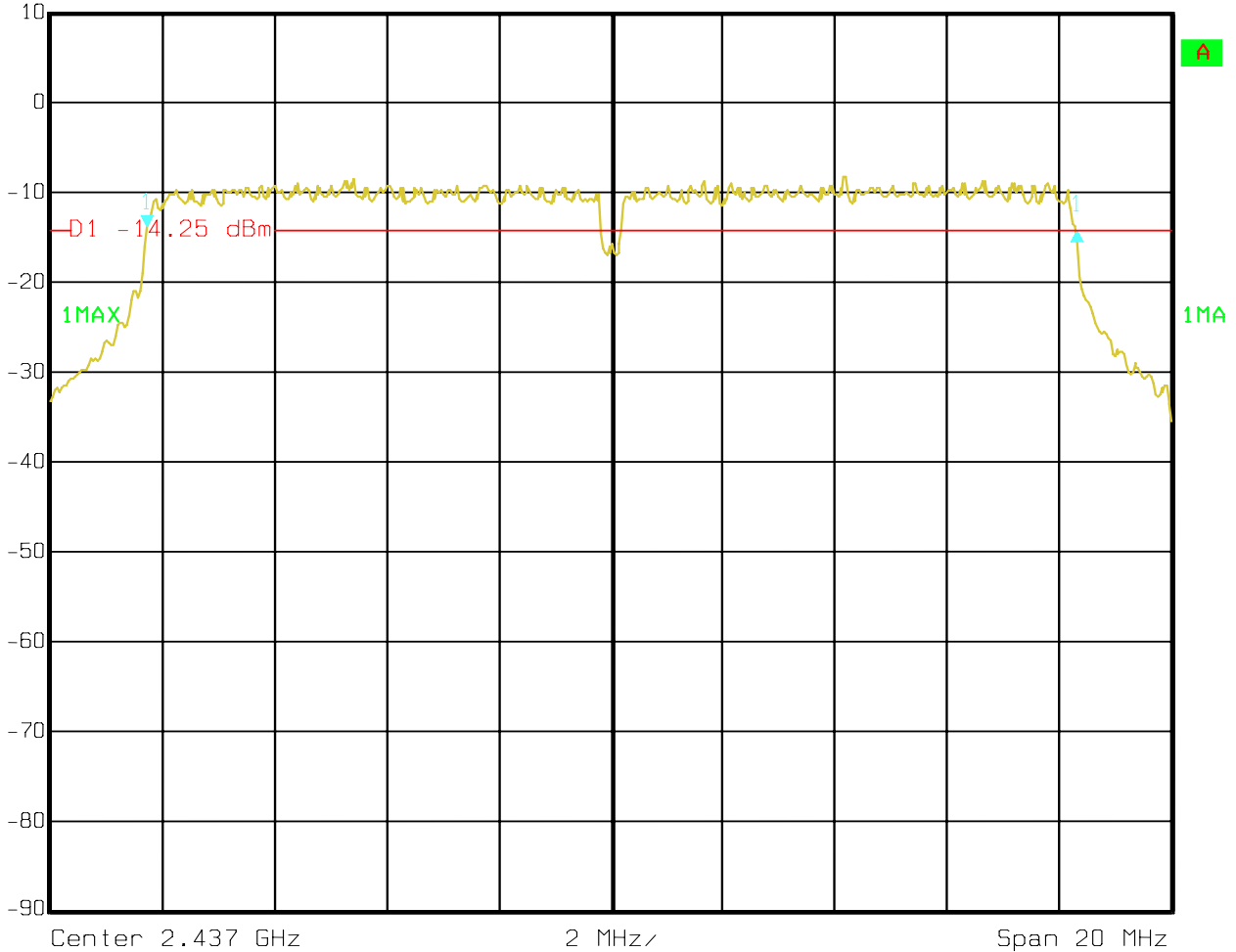


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2. 802.11g at 6Mbps of CH06

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	-0.15 dB	VBW	100 kHz	
	10 dBm	16.59318637 MHz	SWT	5 ms	Unit



Date: 16.NOV.2007 11:04:17

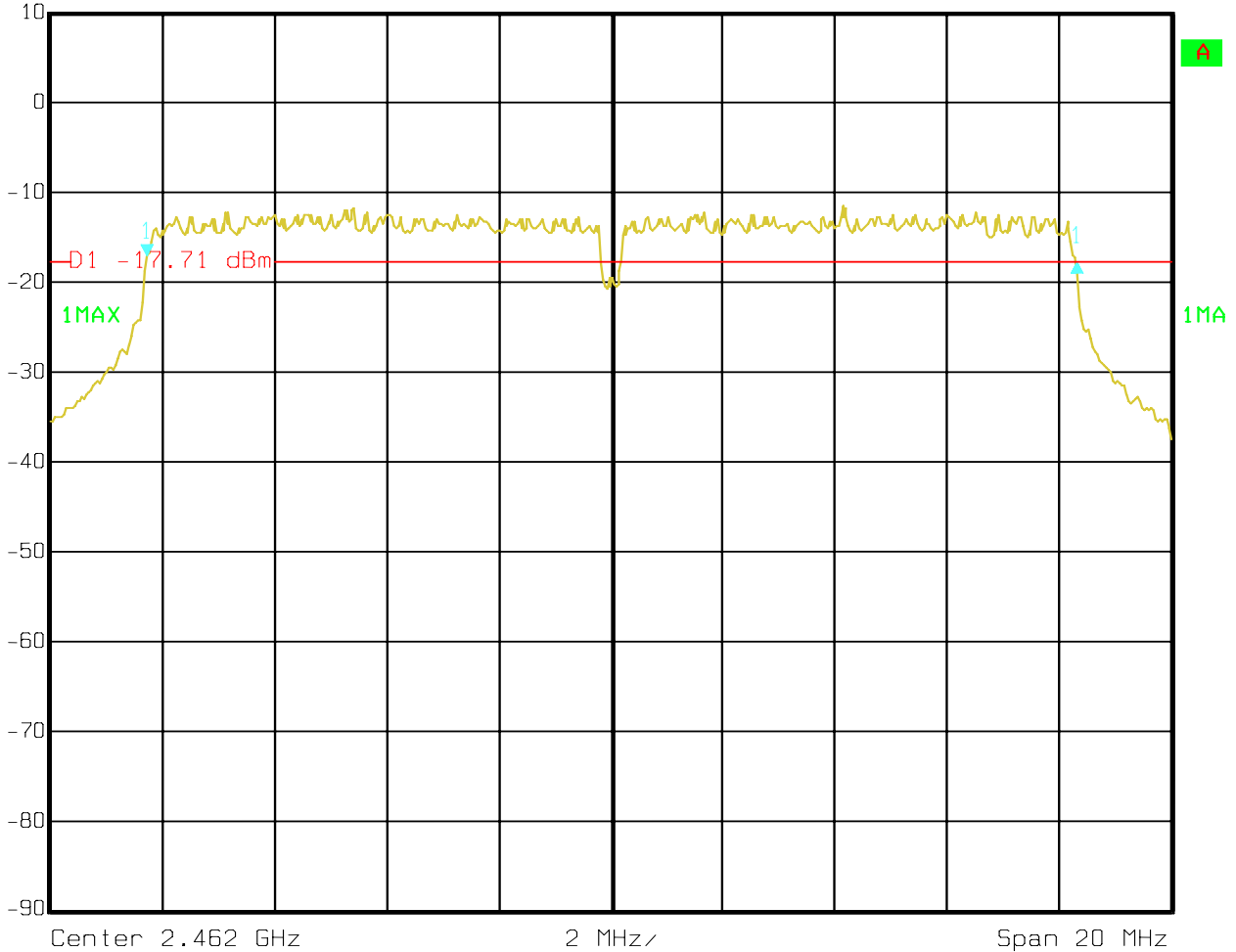
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3. 802.11g at 6Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	-0.26 dB	VBW	100 kHz	Unit	dBm
	16.59318637 MHz	SWT	5 ms		



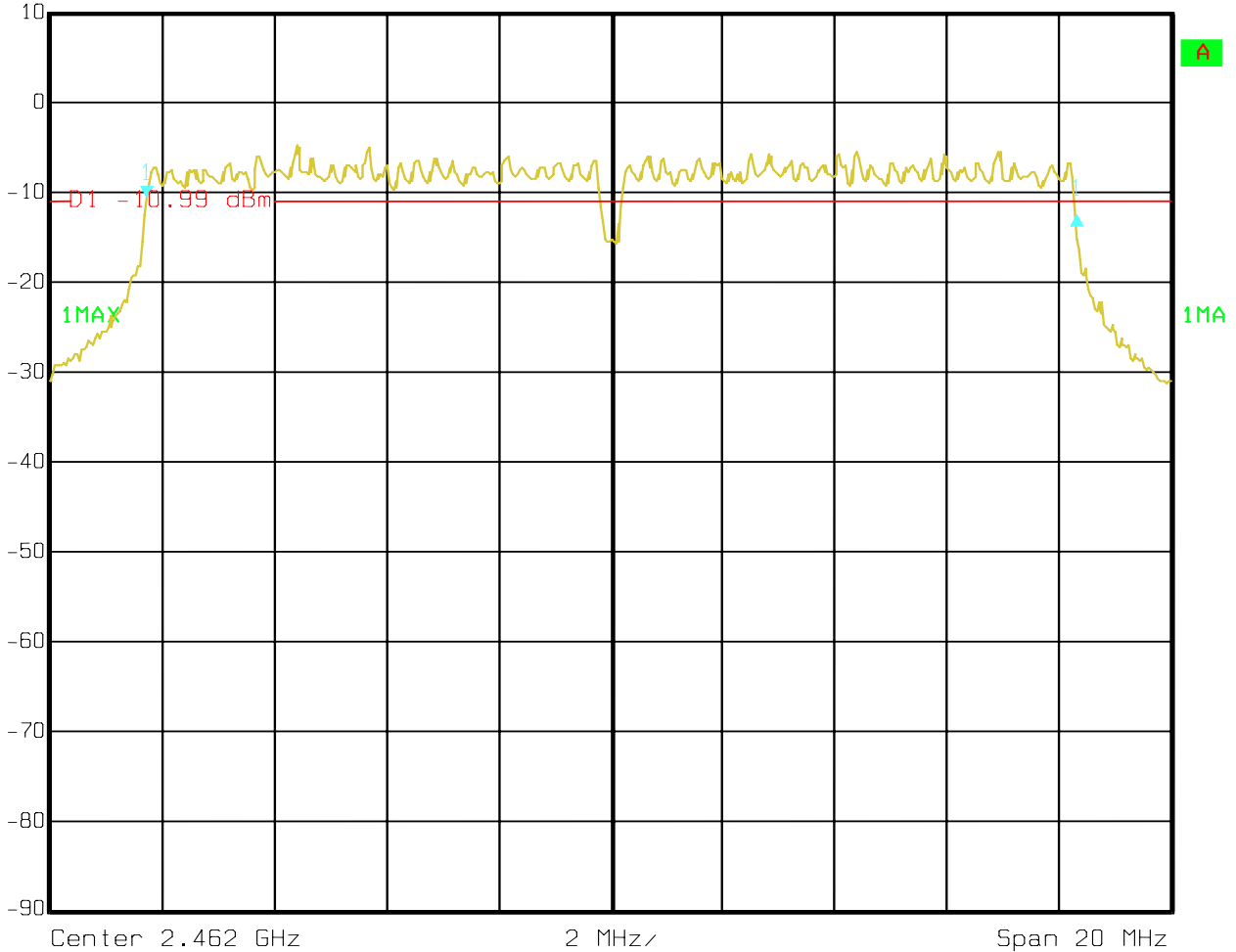
Date: 16.NOV.2007 11:07:24

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4. 802.11g at 54Mbps of CH11

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	-1.59 dB	VBW	100 kHz	
	10 dBm	16.59318637 MHz	SWT	5 ms	Unit dBm



Date: 16.NOV.2007 11:08:47

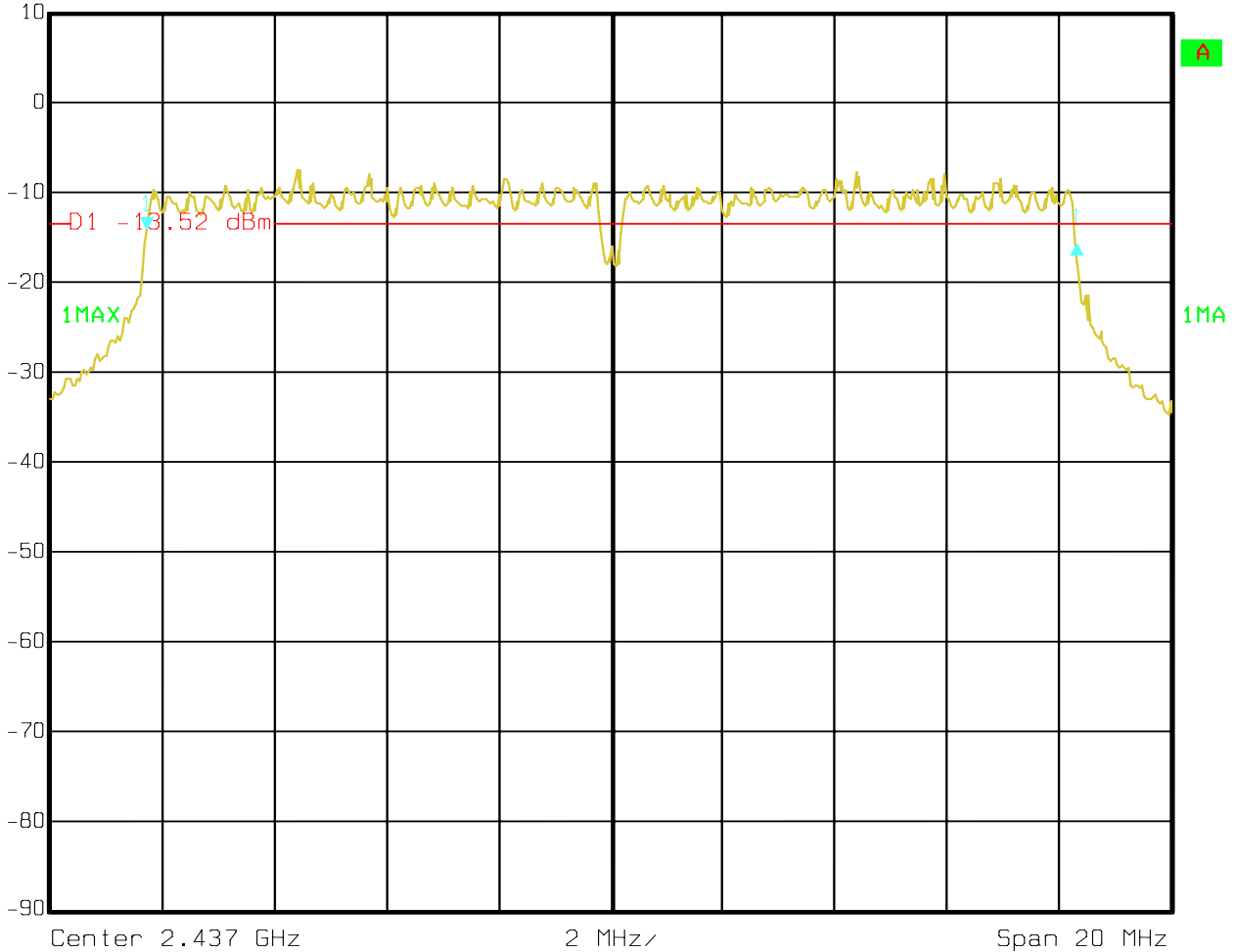
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5. 802.11g at 54Mbps of CH06



Delta 1 [T1] RBW 100 kHz RF Att 20 dB
Ref Lvl -1.45 dB VBW 100 kHz
10 dBm 16.59318637 MHz SWT 5 ms Unit dBm



Date: 16.NOV.2007 11:12:19

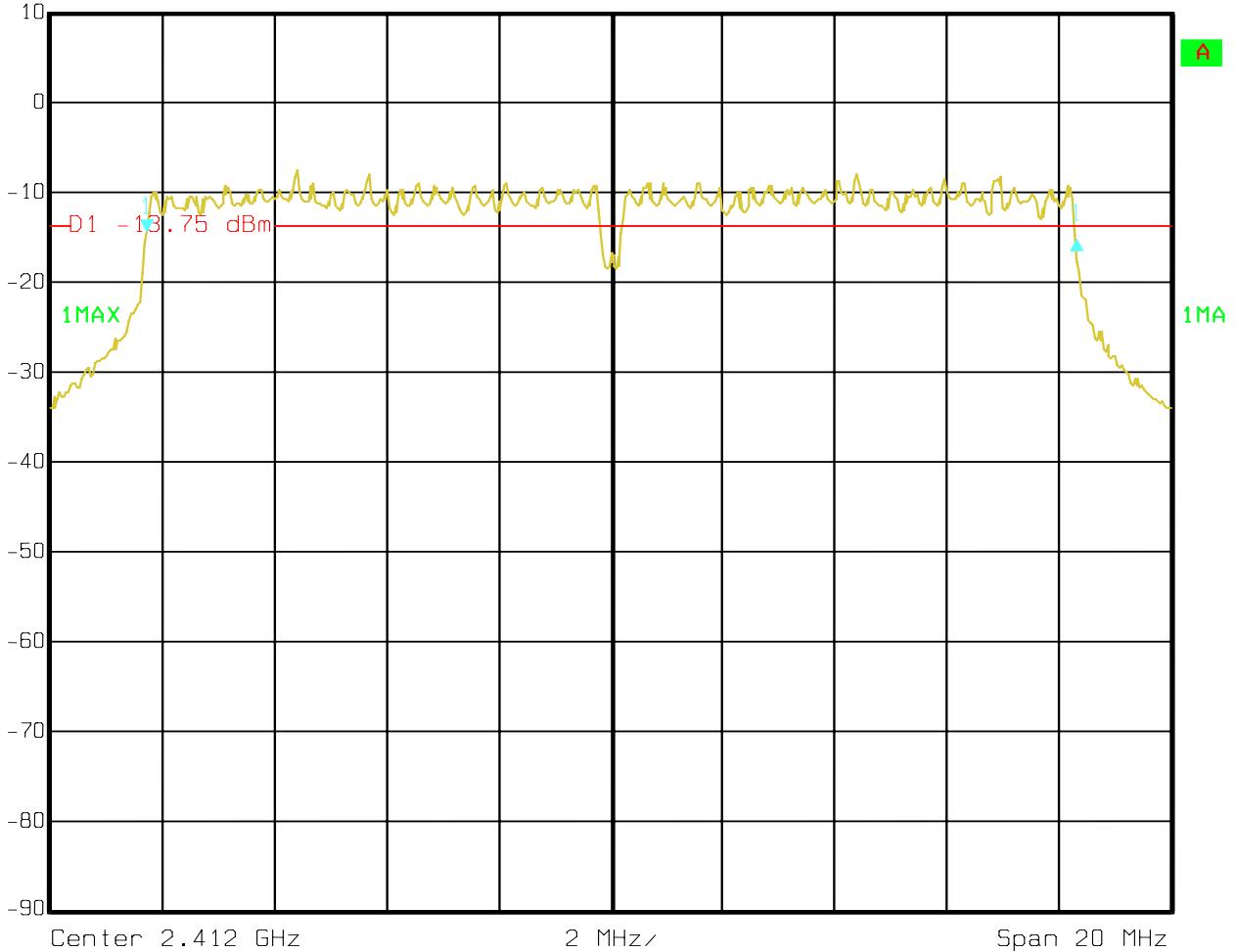
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6. 802.11g at 54Mbps of CH01



Delta 1 [T1] RBW 100 kHz RF Att 20 dB
Ref Lvl -0.77 dB VBW 100 kHz
10 dBm 16.59318637 MHz SWT 5 ms Unit dBm



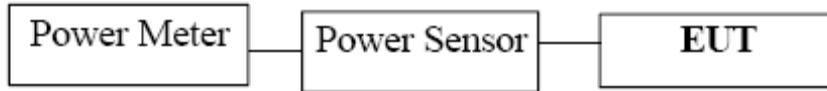
Date: 16.NOV.2007 11:13:40

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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	WiFi PMP		Model	i280
Mode	802.11b		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	10.23	30	Pass
6	2437	11.56	30	Pass
11	2462	10.86	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	WiFi PMP		Model	i280
Mode	802.11g		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	12.06	30	Pass
6	2437	13.23	30	Pass
11	2462	12.62	30	Pass

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

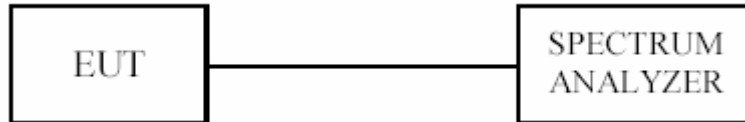
$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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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=100000.00ms

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	WiFi PMP		Model	i280
Mode	802.11b		Input Voltage	DC3.7V
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	-21.73	8	Pass
6	2437	-13.26	8	Pass
11	2462	-13.37	8	Pass

Note: For 802.11b mode at final test to get the worst-case emission at 1Mbps for CH1 and CH11. 11Mbps for CH06

EUT	WiFi PMP		Model	i280
Mode	802.11b		Input Voltage	DC3.7V
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	-26.30	8	Pass
6	2437	-27.24	8	Pass
11	2462	-28.91	8	Pass

Note: For 802.11g mode at final test to get the worst-case emission at 6Mbps for CH01,CH11 and 54Mbps for CH06

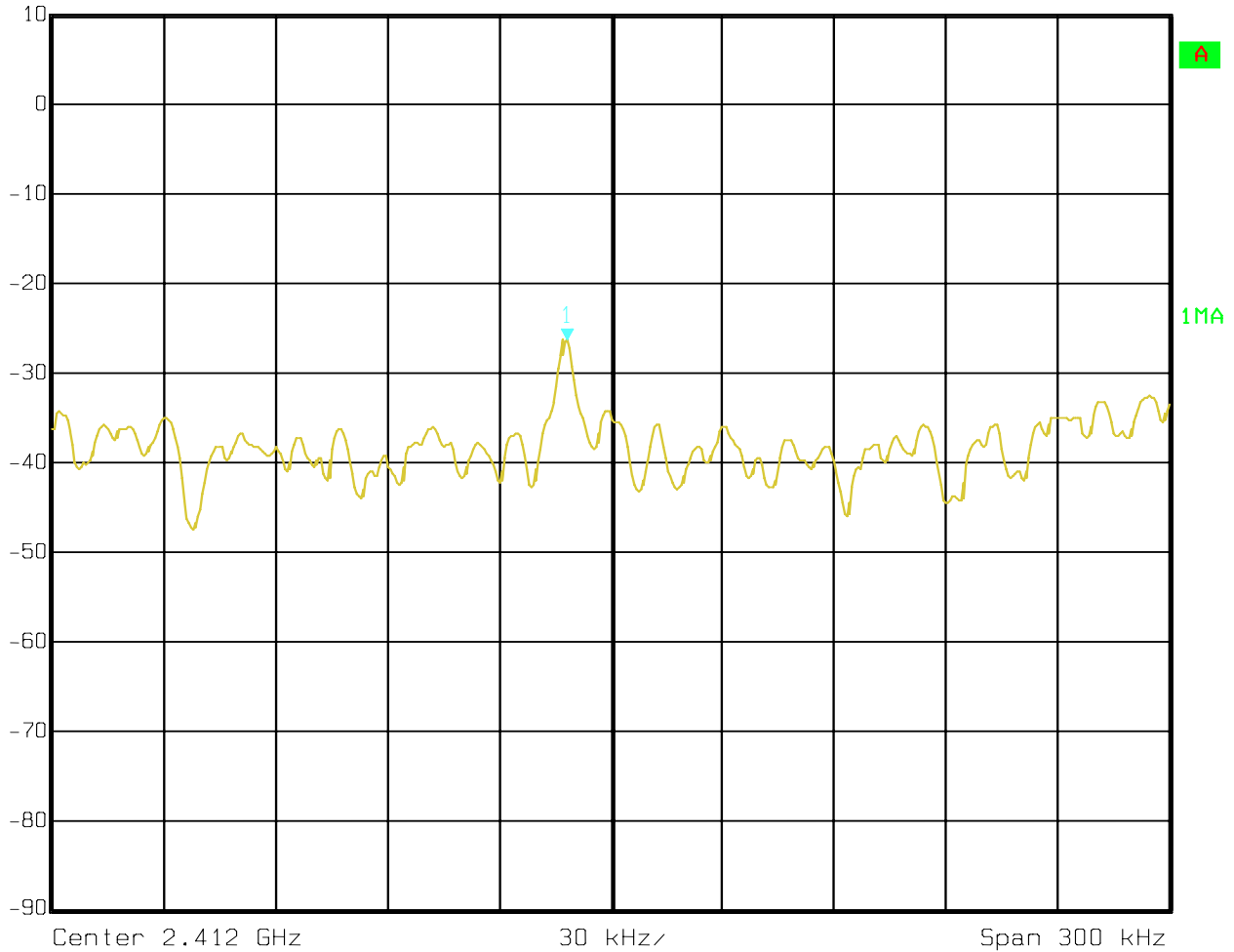
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9.5 Photo of Power Spectral Density Measurement

1.802.11g at 6Mbps of CH01

	Ref Lvl	Marker 1 [T1]	RBW	3 kHz	RF Att	20 dB
	10 dBm	-26.30 dBm	VBW	10 kHz		
		2.41198828 GHz	SWT	100 s	Unit	dBm



Date: 16.NOV.2007 11:55:19

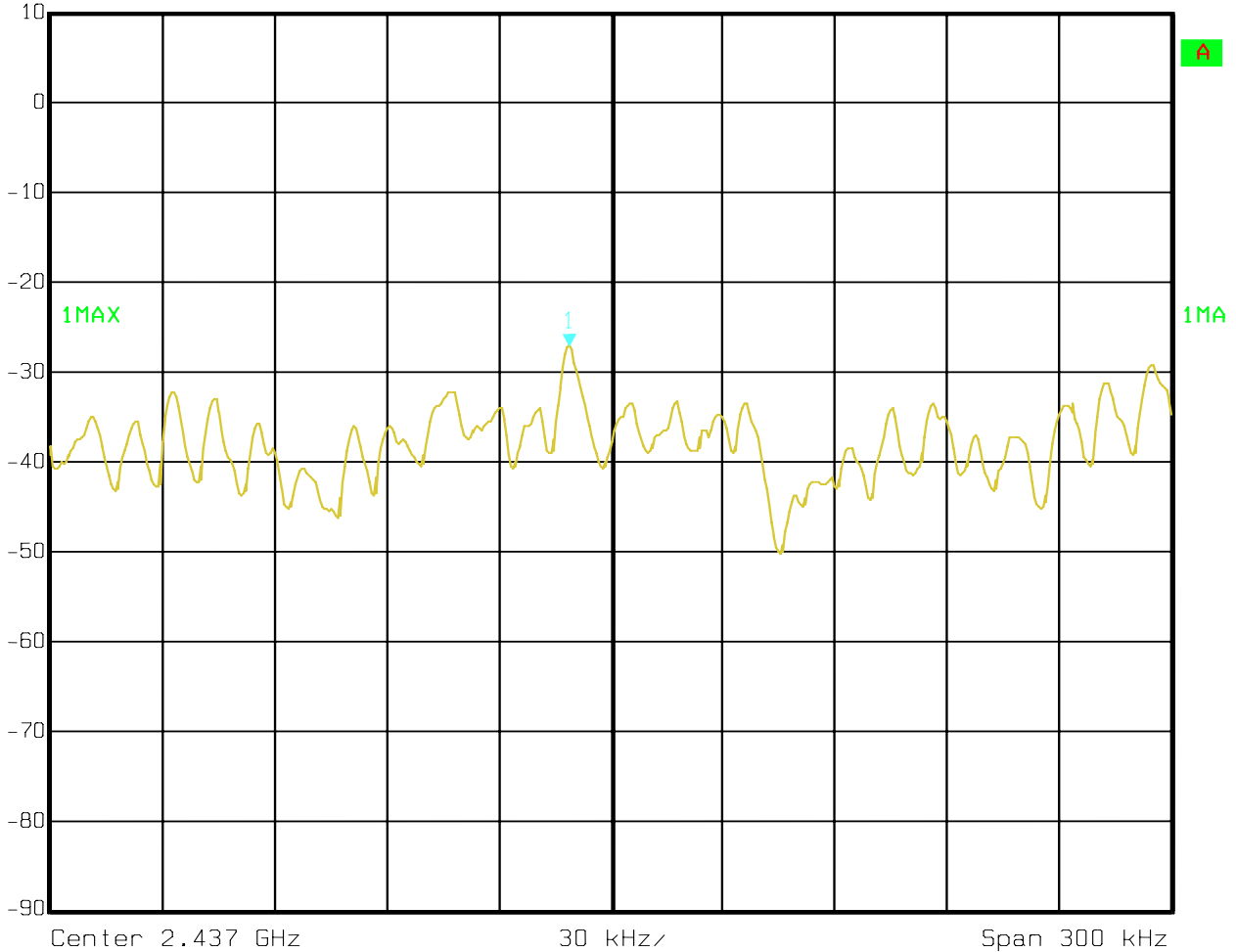
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2. 802.11g at 54Mbps at CH06



Marker 1 [T1] RBW 3 kHz RF Att 20 dB
Ref Lvl -27.24 dBm VBW 10 kHz
10 dBm 2.43698888 GHz SWT 100 s Unit dBm



Date: 16.NOV.2007 12:13:08

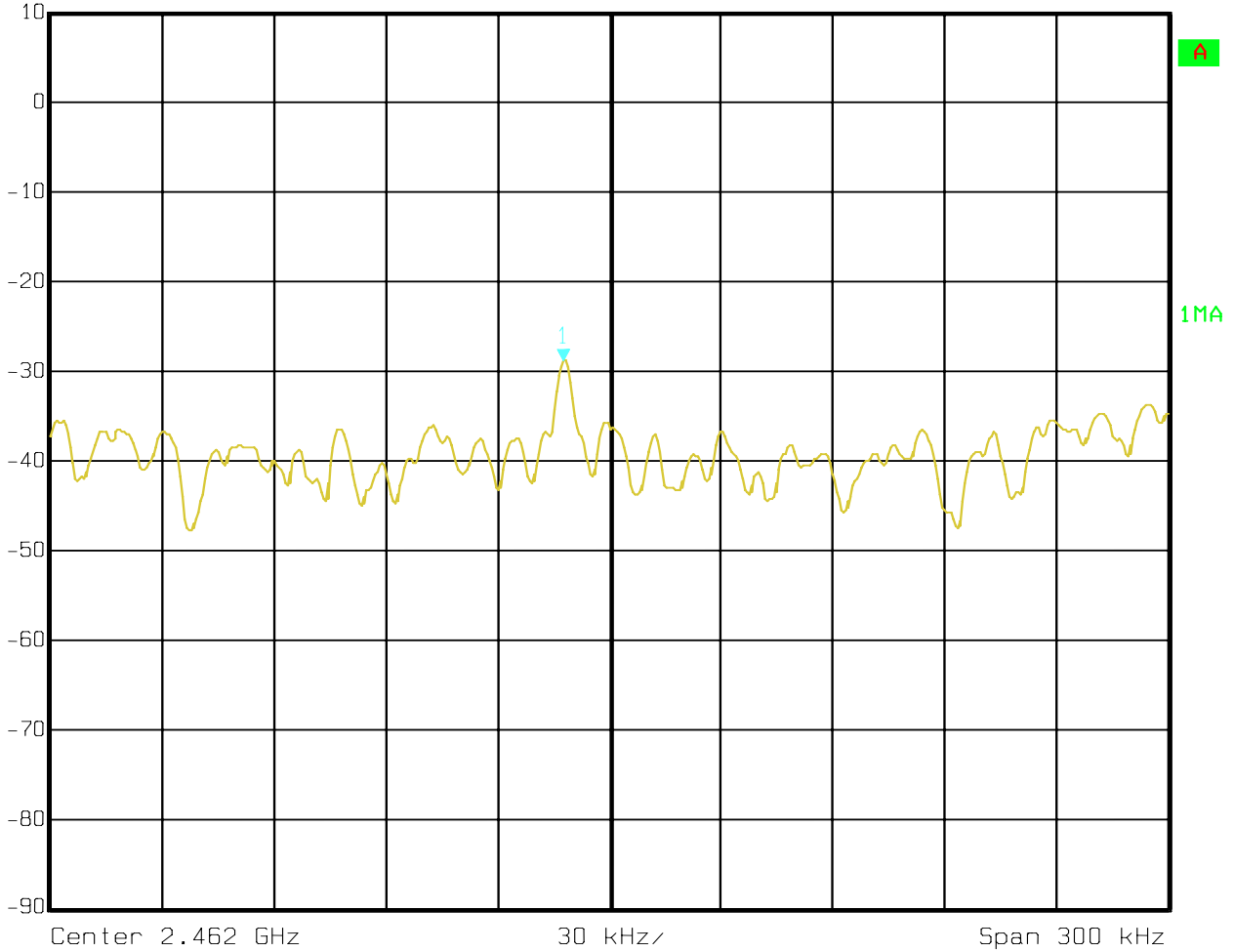
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3. 802.11g at 6Mbps of CH11



Marker 1 [T1] RBW 3 kHz RF Att 20 dB
Ref Lvl -28.91 dBm VBW 10 kHz
10 dBm 2.46198768 GHz SWT 100 s Unit dBm



Date: 16.NOV.2007 12:04:35

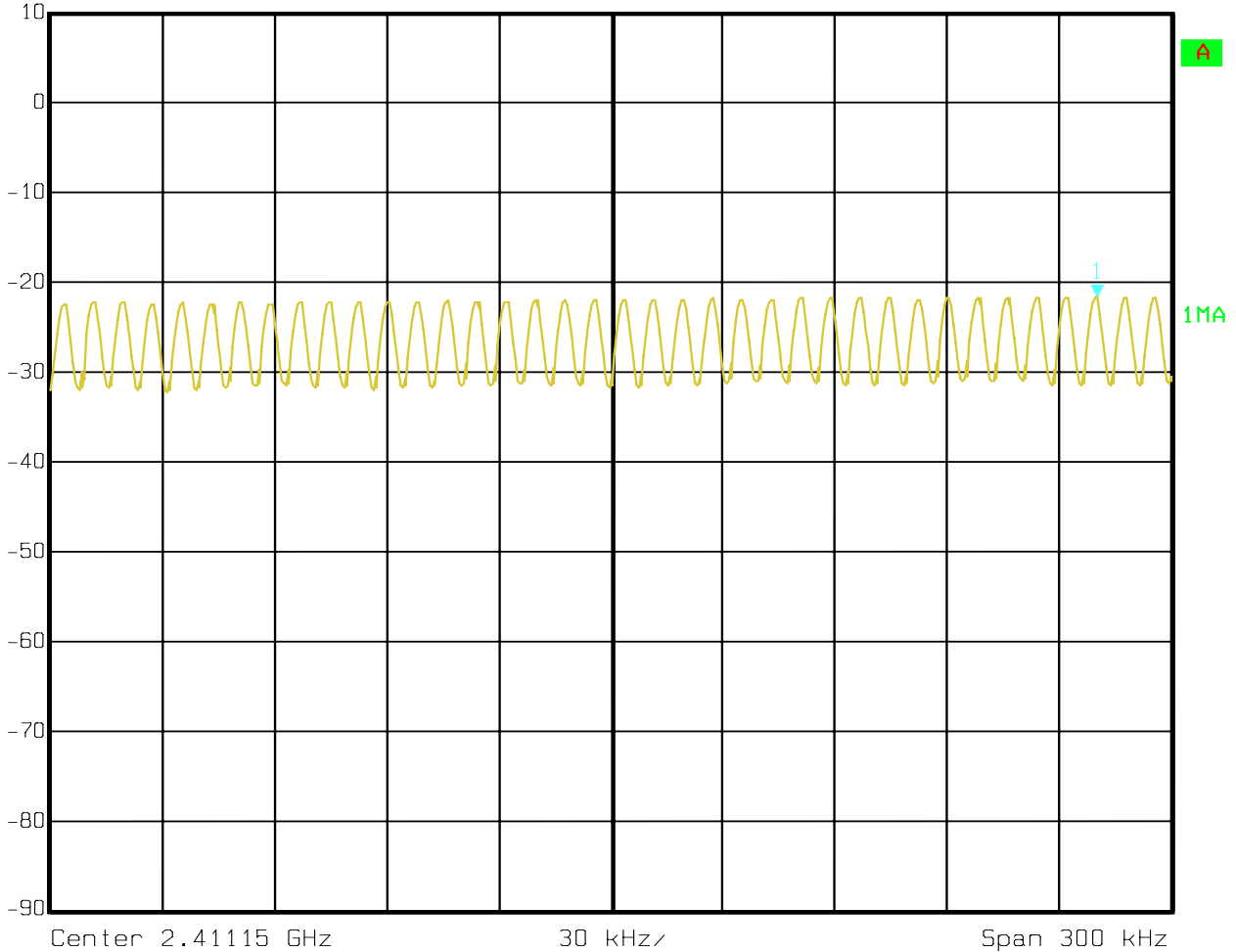
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4. 802.11b at 1Mbps of CH01



Marker 1 [T1] RBW 3 kHz RF Att 20 dB
Ref Lvl -21.73 dBm VBW 10 kHz
10 dBm 2.41128016 GHz SWT 100 s Unit dBm



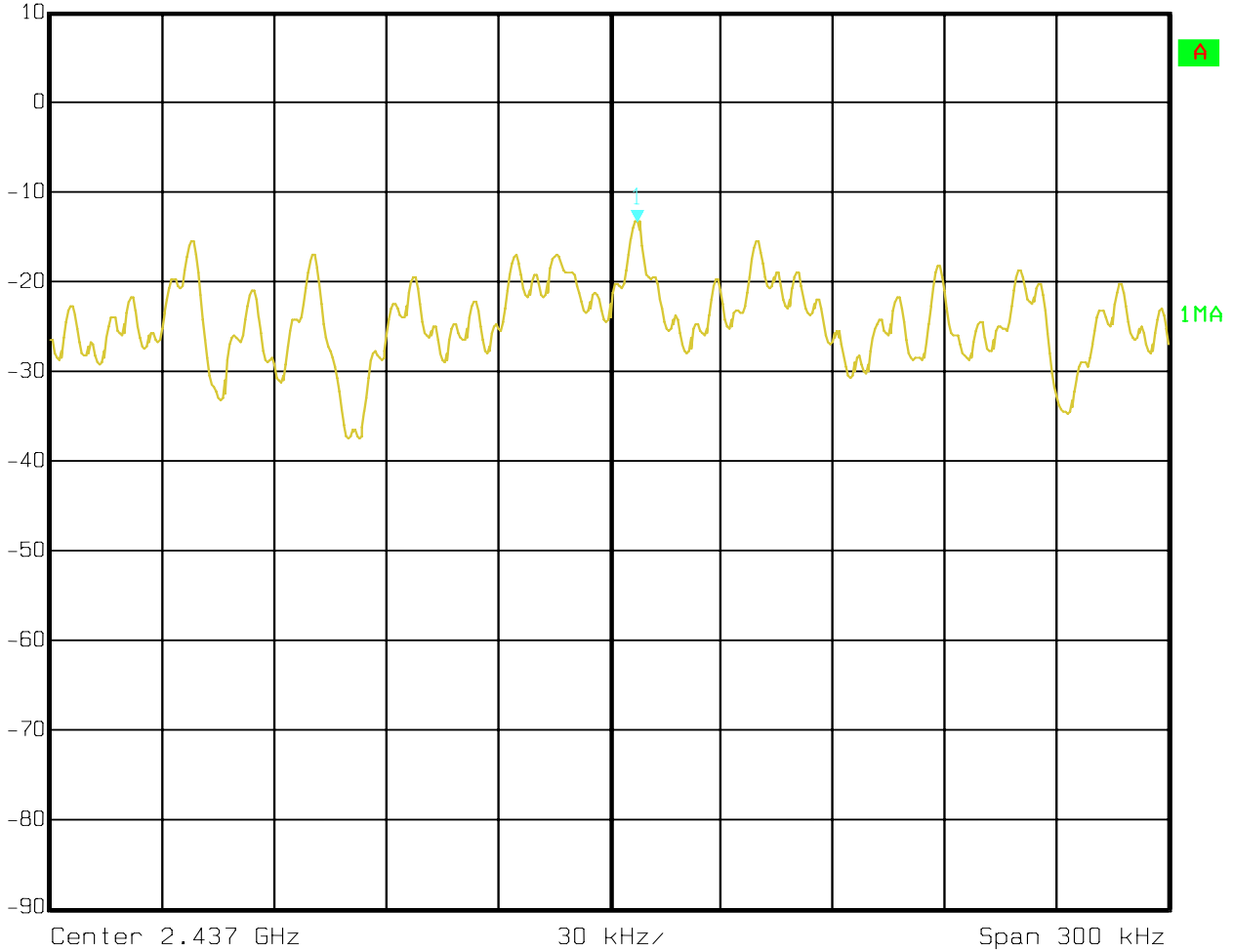
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5. 802.11b at 11Mbps of CH06

	Marker 1 [T1]	RBW	3 kHz	RF Att	20 dB
	Ref Lvl	-13.26 dBm	VBW	10 kHz	
	10 dBm	2.43700752 GHz	SWT	100 s	Unit dBm



Date: 16.NOV.2007 11:28:16

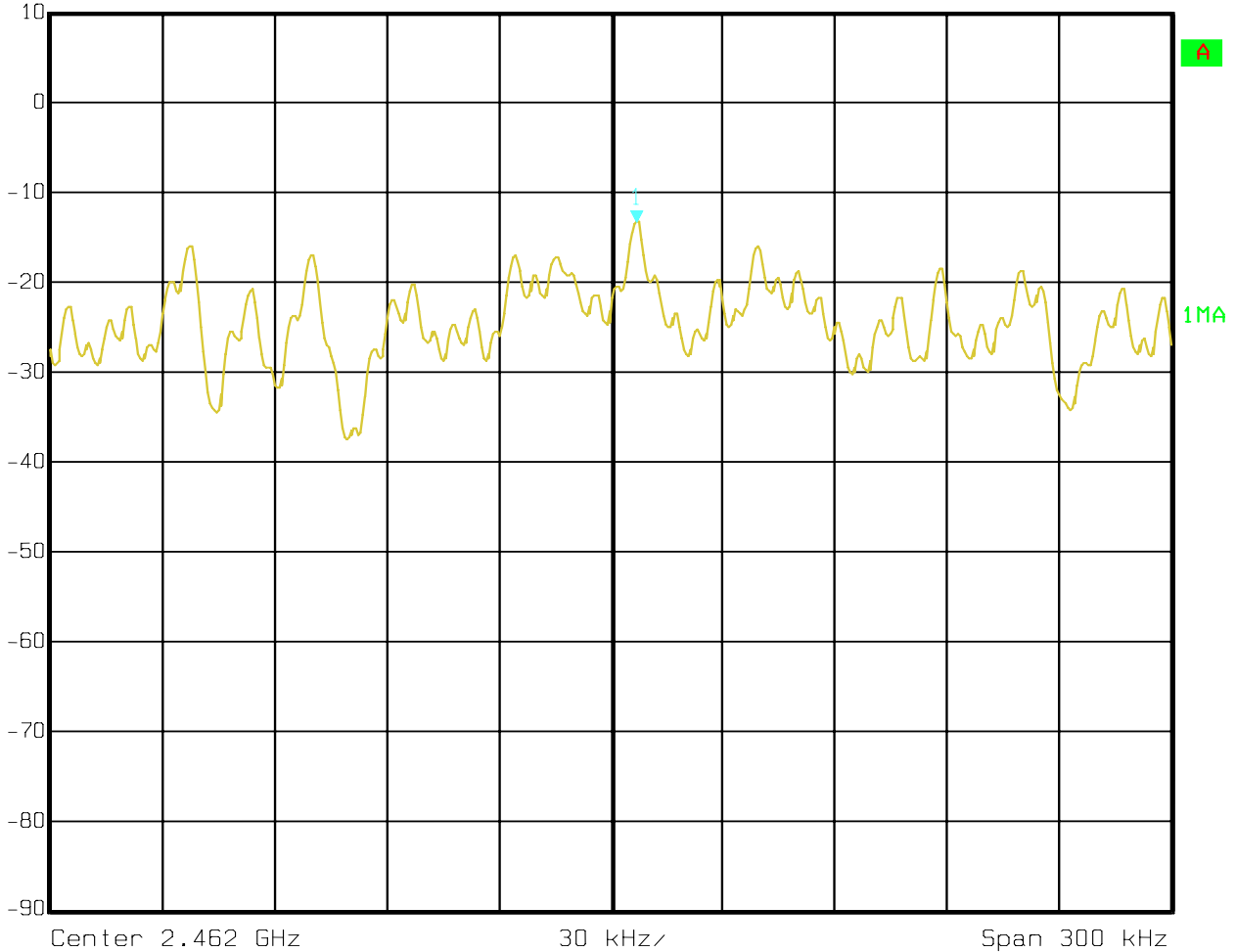
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6. 802.11b at 1Mbps of CH11



Marker 1 [T1] RBW 3 kHz RF Att 20 dB
Ref Lvl -13.37 dBm VBW 10 kHz
10 dBm 2.46200691 GHz SWT 100 s Unit dBm



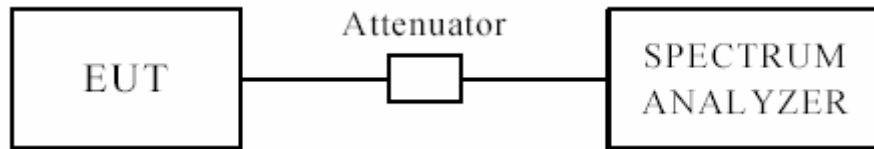
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10 Out of Band Measurement

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

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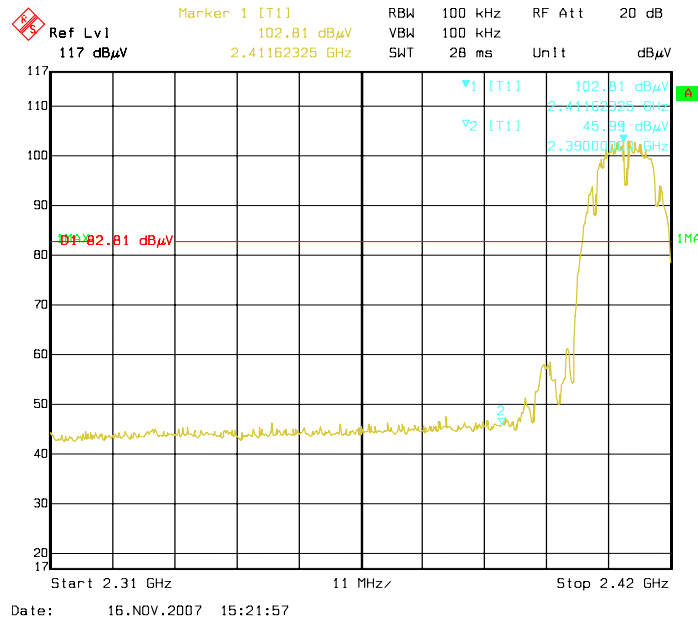
For 802.11b mode

10.4 Below -20dB of the highest emission level of operating band

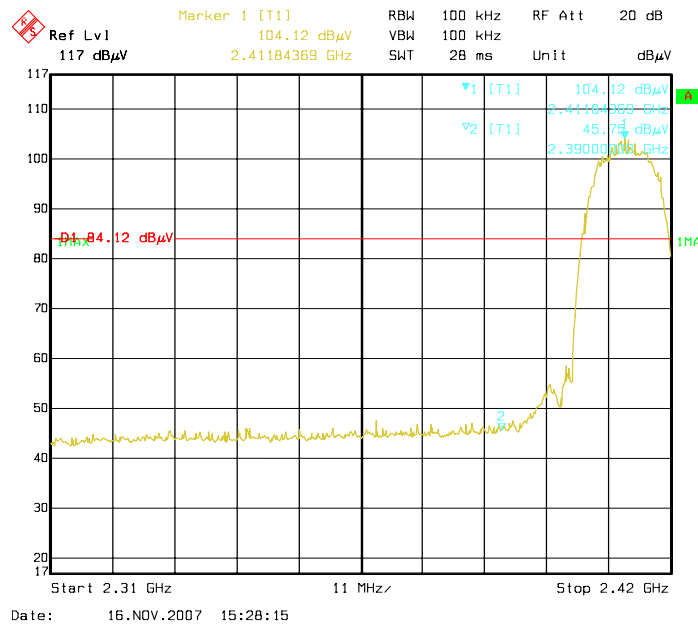
Product:	WiFi PMP	Test Mode:	CH01 at 1 Mbps and 11Mbps
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:

1Mbps



11Mbps



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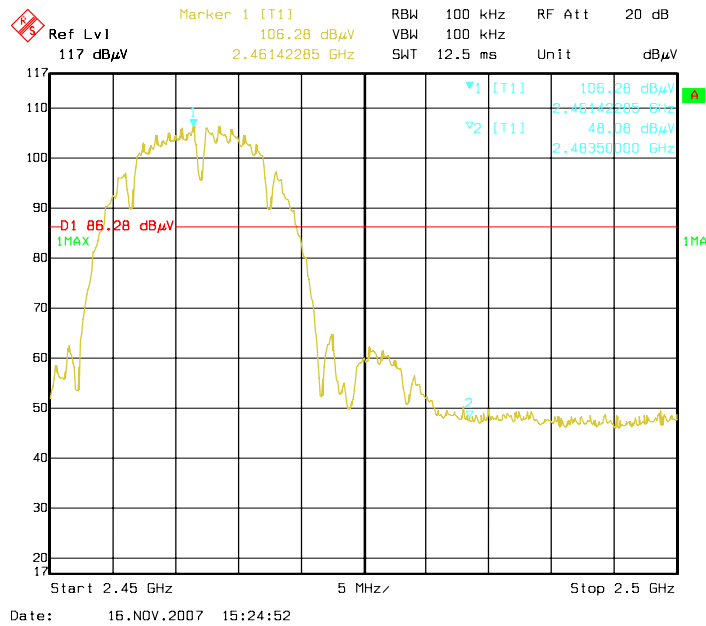


10.4 Below -20dB of the highest emission level of operating band

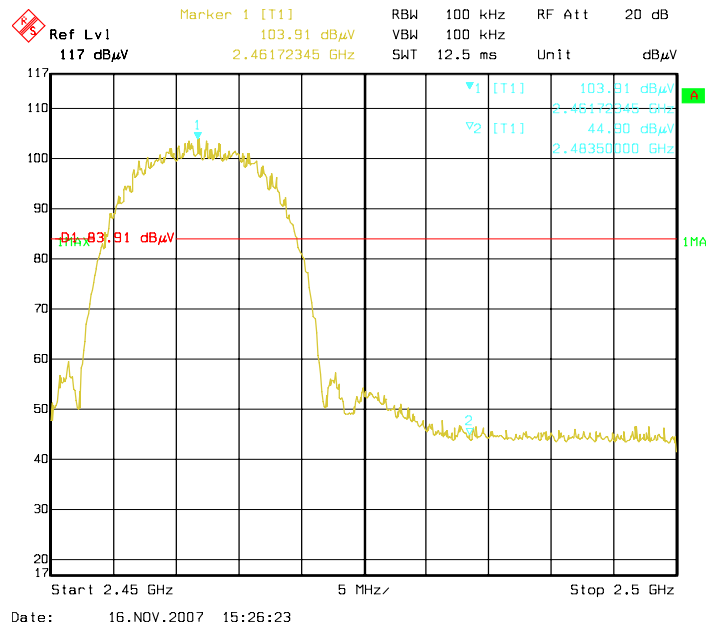
Product:	WiFi PMP	Test Mode:	CH11 at 1 Mbps and 11Mbps
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:

1Mbps



11Mbps



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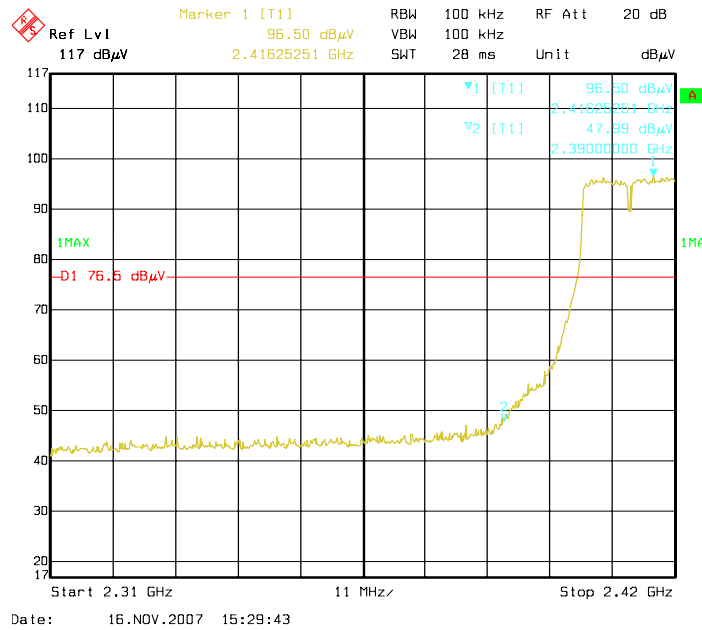
For 802.11g mode

10.4 Below -20dB of the highest emission level of operating band

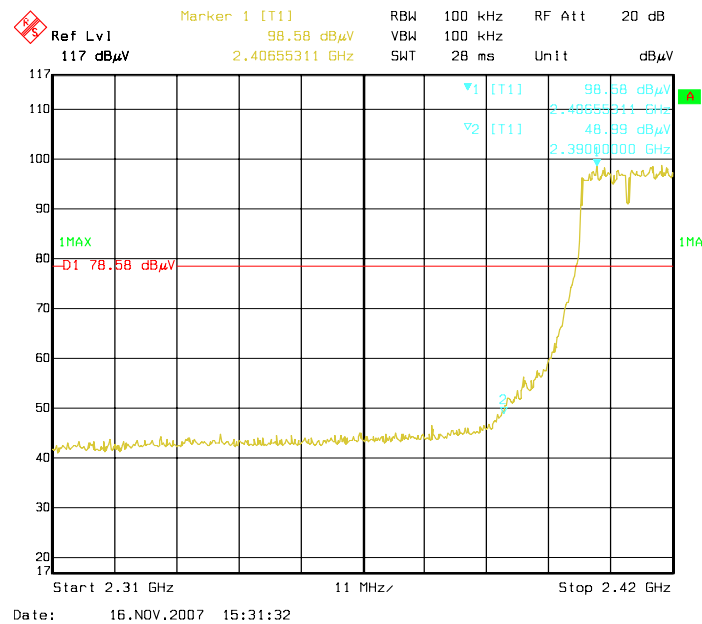
Product:	WiFi PMP	Test Mode:	CH01 at 6 Mbps and 54Mbps
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:

6Mbps



54Mbps



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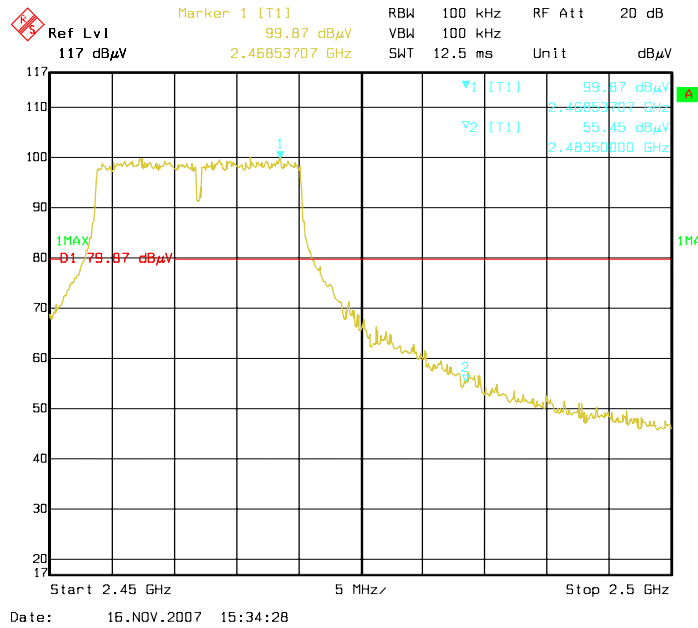


10.4 Below -20dB of the highest emission level of operating band

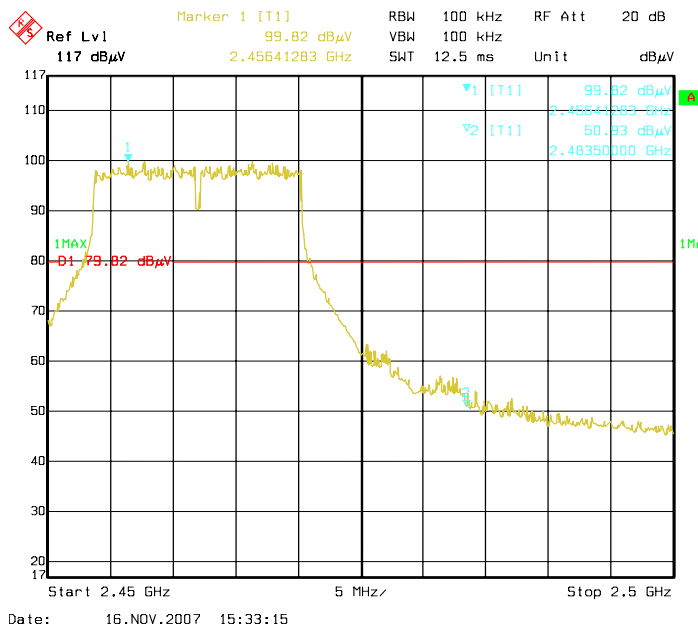
Product:	WiFi PMP	Test Mode:	CH11 at 6 Mbps and 54Mbps
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:

6Mbps



54Mbps



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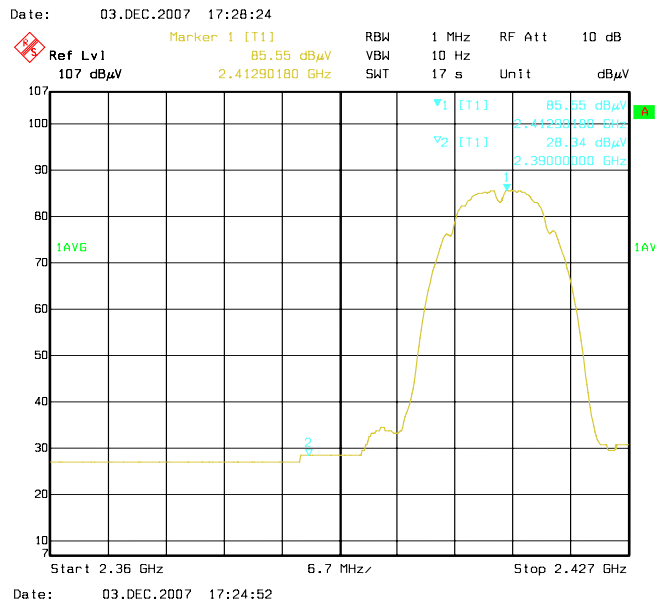
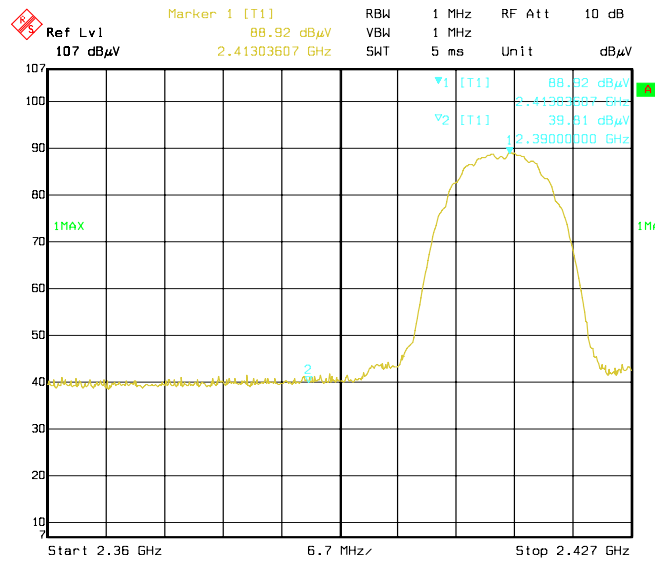


For 802.11b mode

10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH01 at 1Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	35.8	Limit	74(dB μ V/m)
	AV(dB μ V/m)	26.2		54(dB μ V/m)

Test Figure: Horizontal



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

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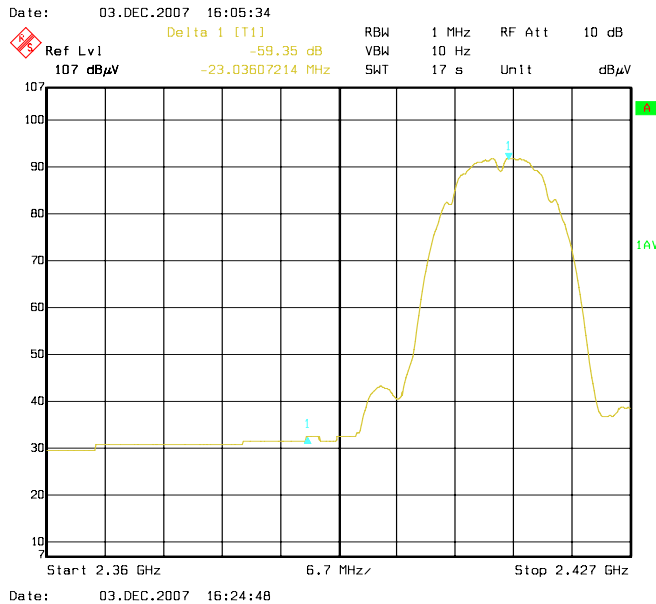
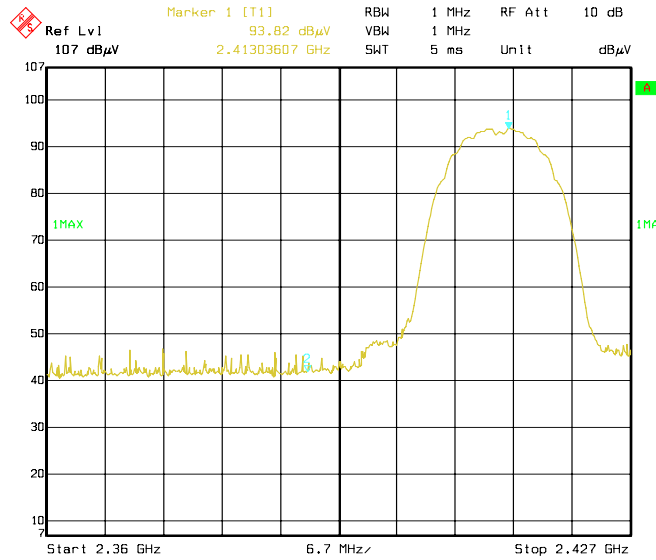
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH01 at 1Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	36.9	Limit	74(dB μ V/m)
	AV(dB μ V/m)	25.6		54(dB μ V/m)

Test Figure: Vertical



- Note: 1. FS= Field Strength
- 2. Band-edge measurement are made in the conventional manner

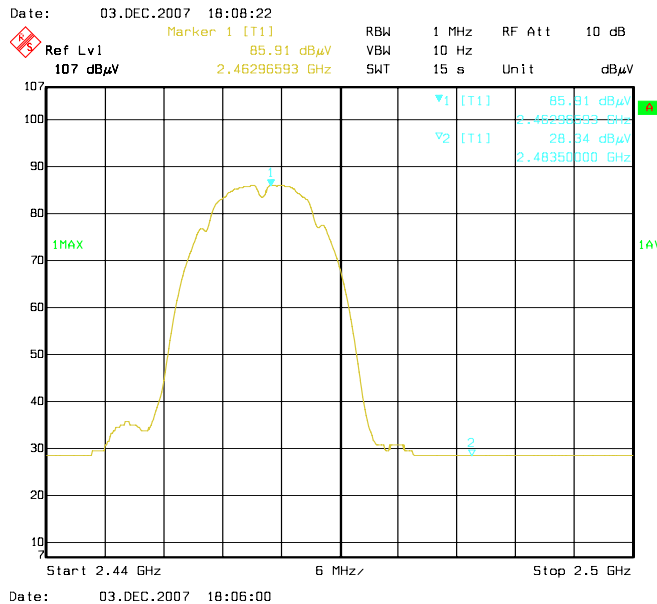
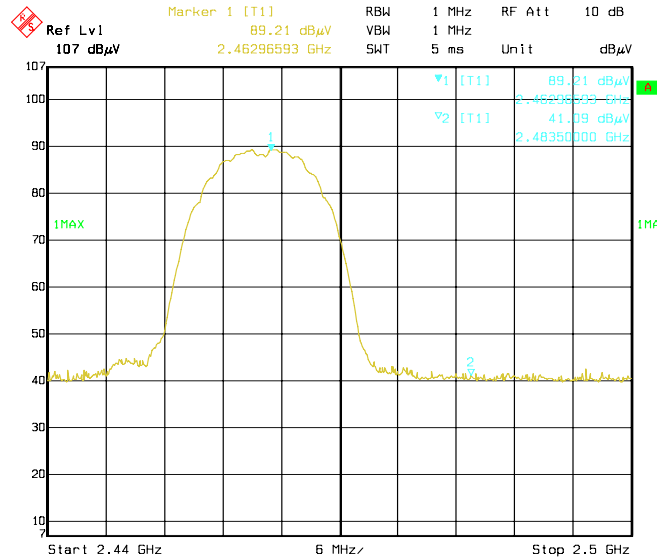
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH11 at 1Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	38.3	Limit	74(dB μ V/m)
	AV(dB μ V/m)	30.2		54(dB μ V/m)

Test Figure: Horizontal



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

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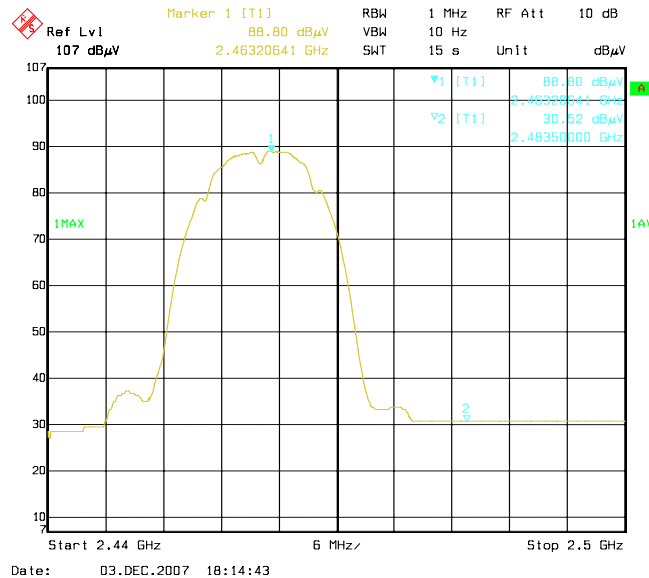
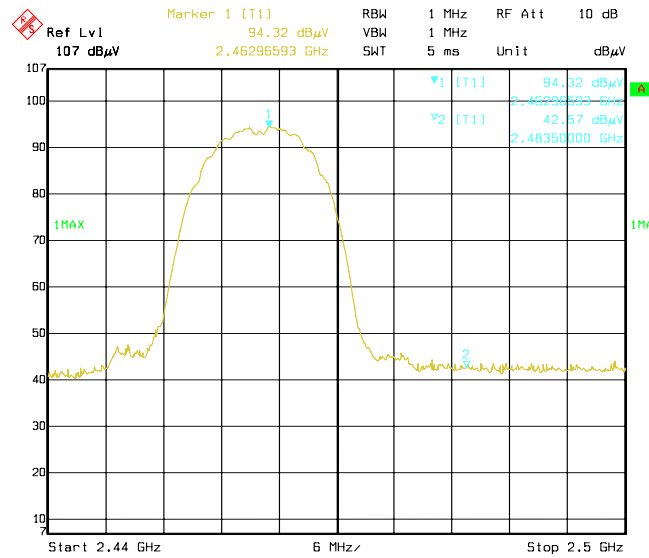
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH11 at 1Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	40.3	Limit	74(dB μ V/m)
	AV(dB μ V/m)	32.6		54(dB μ V/m)

Test Figure: Vertical



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

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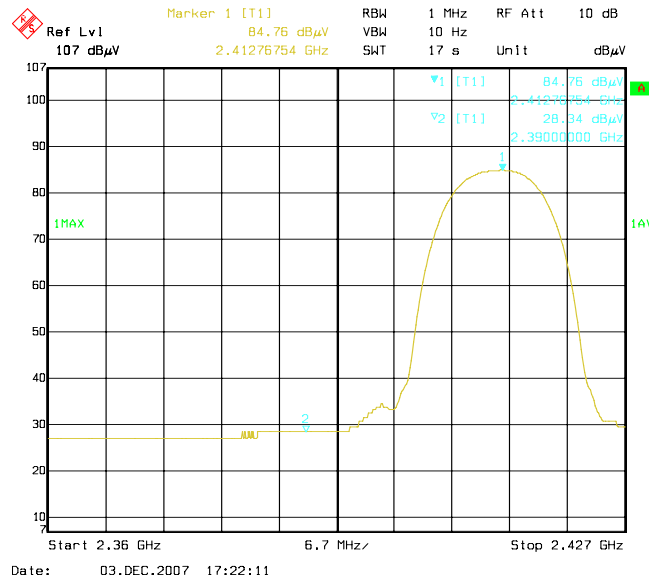
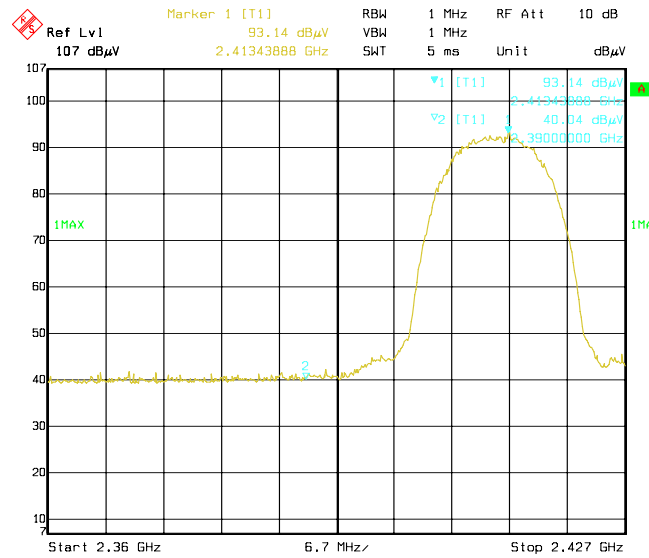
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH1 at 11Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	37.6	Limit	74(dB μ V/m)
	AV(dB μ V/m)	28.1		54(dB μ V/m)

Test Figure: Horizontal



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

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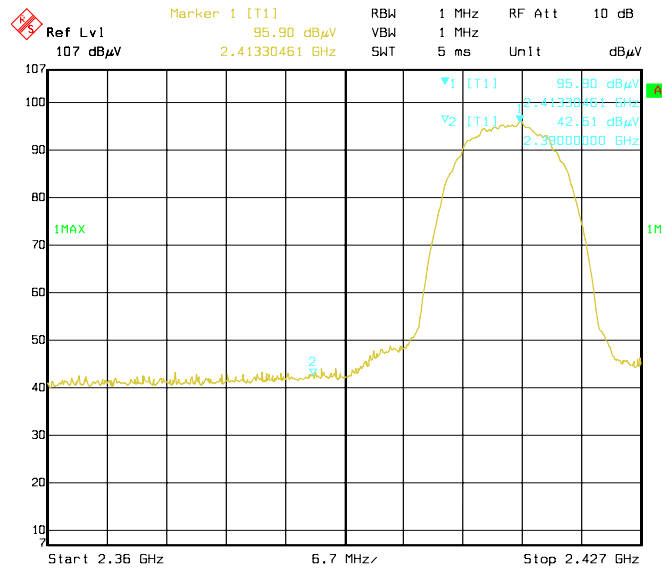
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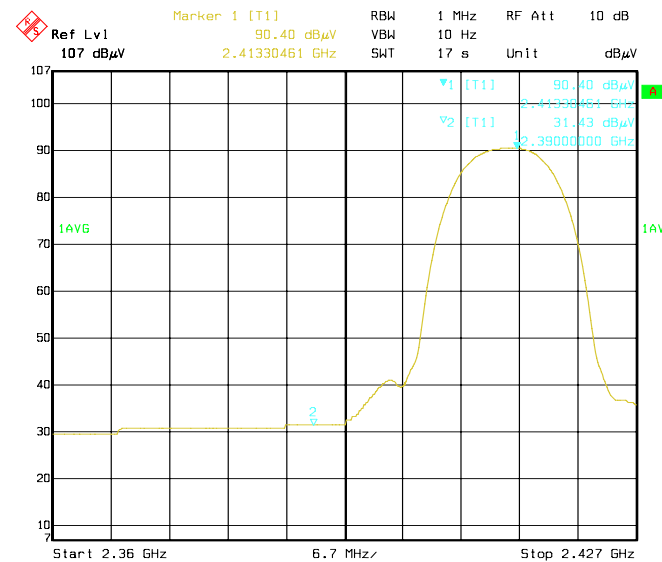
10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH1 at 11Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	38.2	Limit	74(dB μ V/m)
	AV(dB μ V/m)	27.3		54(dB μ V/m)

Test Figure: Vertical



Date: 03.DEC.2007 17:14:16



Date: 03.DEC.2007 16:56:58

Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

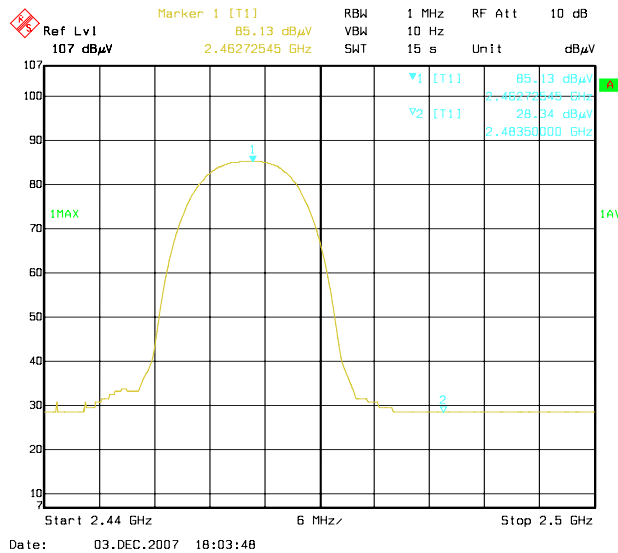
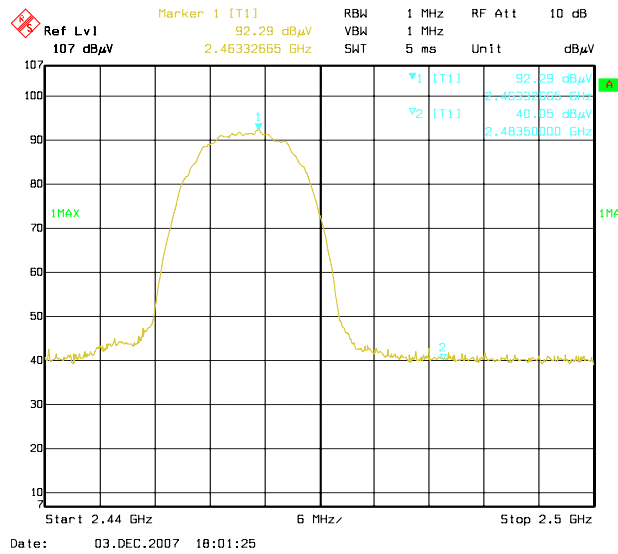
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH11 at 11Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	37.0	Limit	74(dB μ V/m)
	AV(dB μ V/m)	27.3		54(dB μ V/m)

Test Figure: Horizontal



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

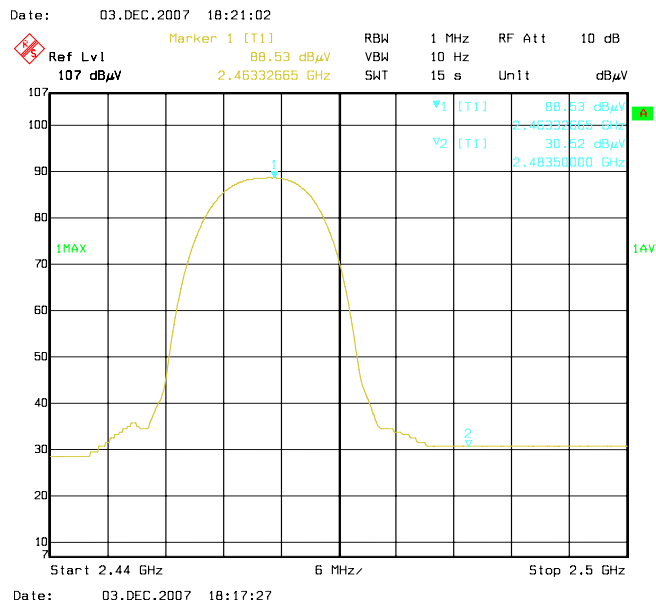
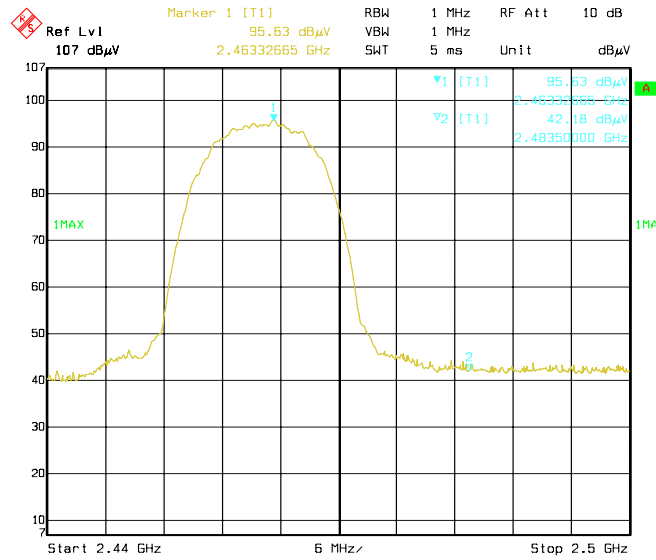
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH11 at 11Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	37.3	Limit	74(dB μ V/m)
	AV(dB μ V/m)	28.6		54(dB μ V/m)

Test Figure: Vertical



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

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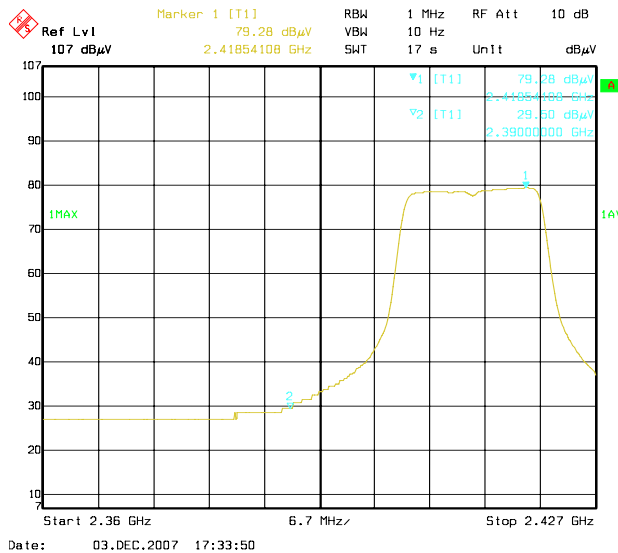
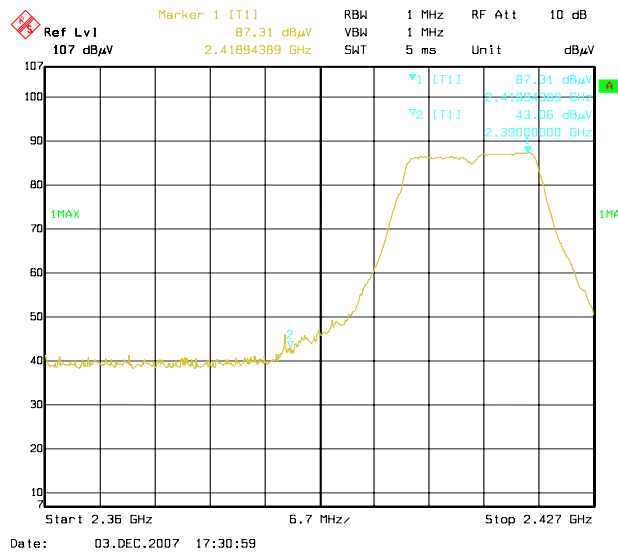


802.11g Mode

10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH1 at 6Mbps
Mode	Keeping Transmitting		Input Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	50.6	Limit	74(dB μ V/m)
	AV(dB μ V/m)	36.6		54(dB μ V/m)

Test Figure: Horizontal



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

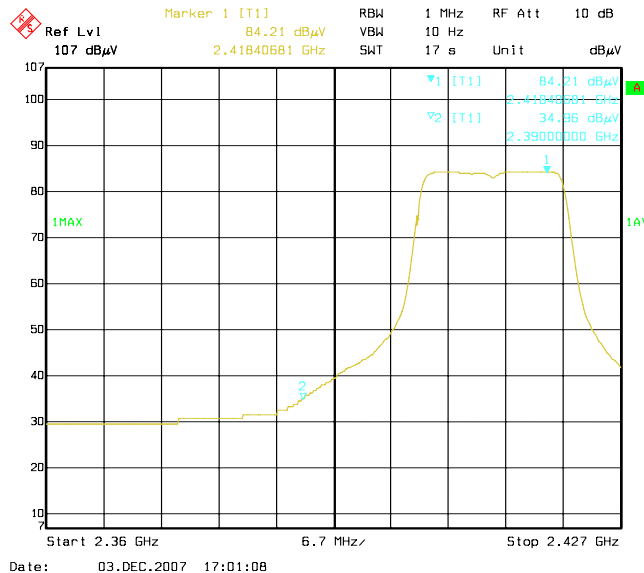
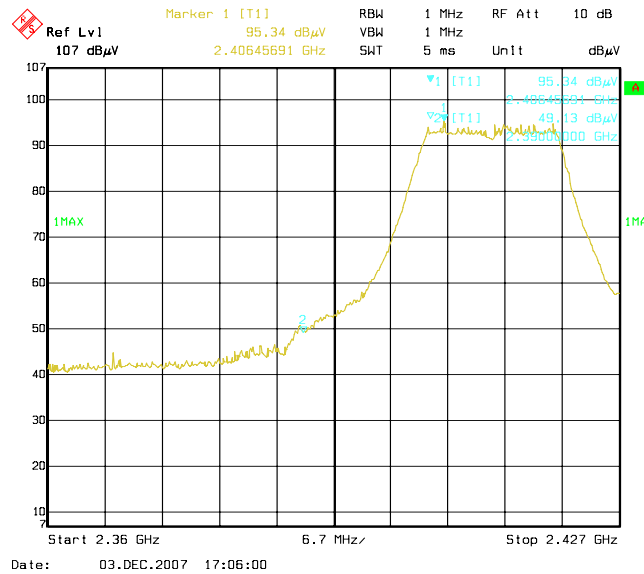
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH1 at 6Mbps
Mode	Keeping Transmitting		Input Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	52.3	Limit	74(dB μ V/m)
	AV(dB μ V/m)	38.6		54(dB μ V/m)

Test Figure: Vertical



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

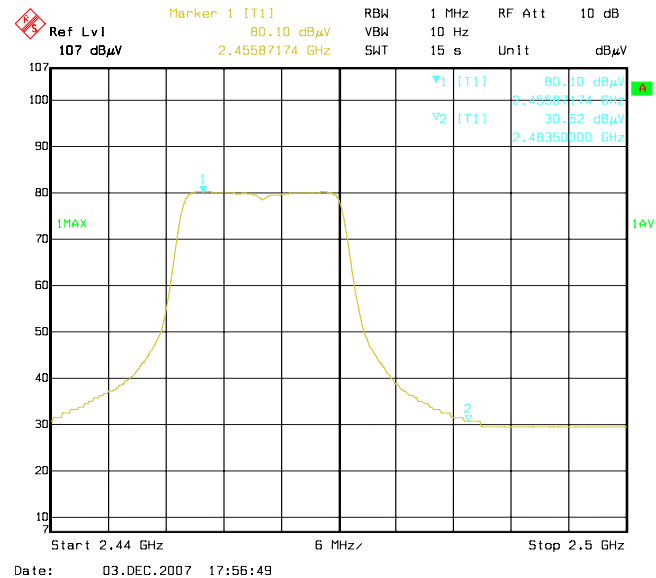
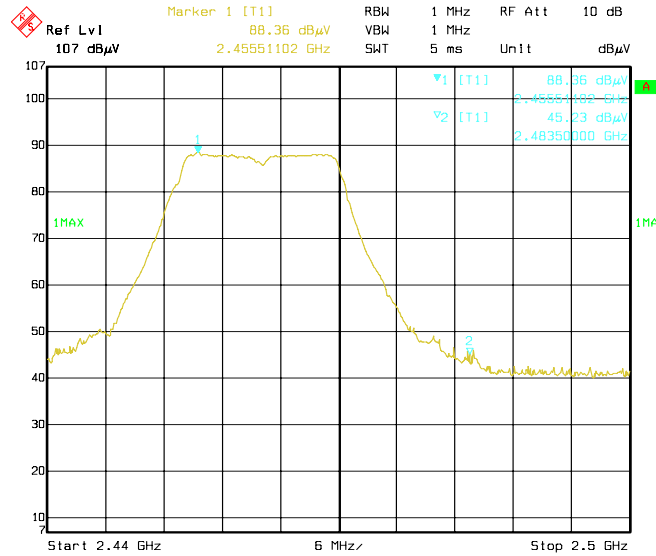
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH11 at 6Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	51.2	Limit	74(dB μ V/m)
	AV(dB μ V/m)	40.8		54(dB μ V/m)

Test Figure: Horizontal



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

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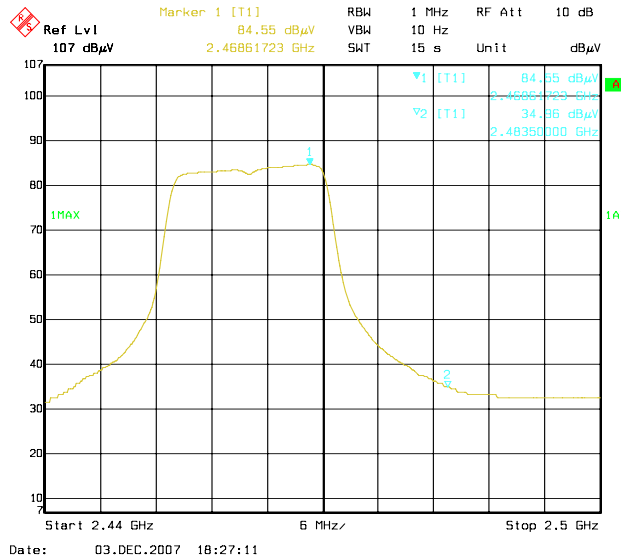
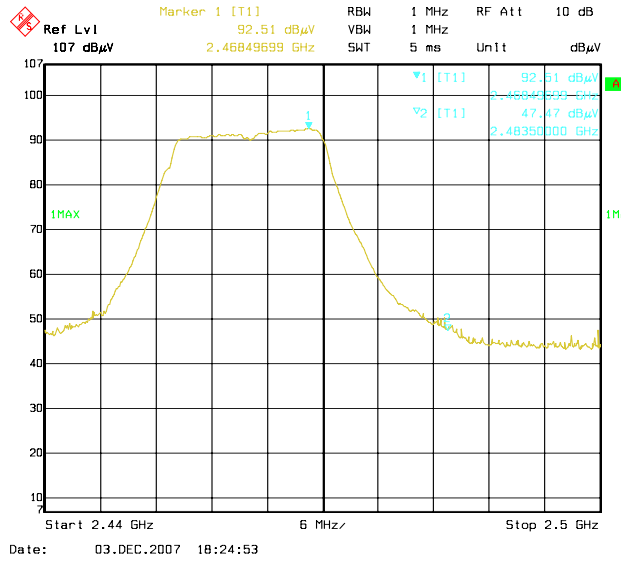
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH11 at 6Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	53.7	Limit	74(dB μ V/m)
	AV(dB μ V/m)	42.3		54(dB μ V/m)

Test Figure: Vertical



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

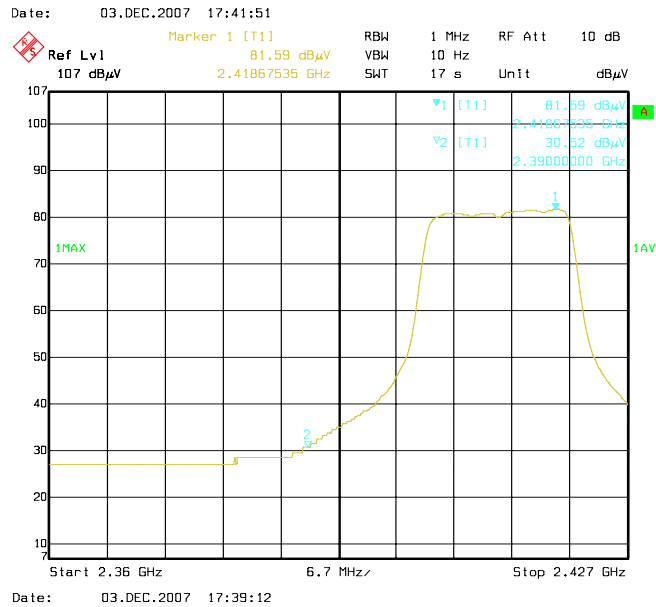
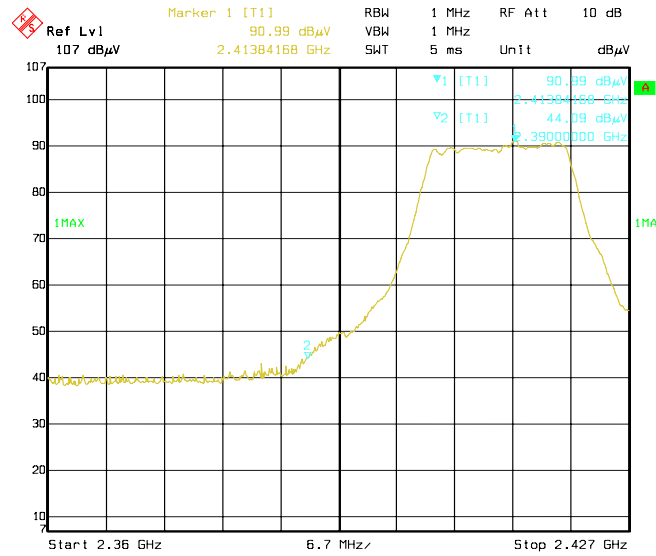
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH1 at 54Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	52.1	Limit	74(dB μ V/m)
	AV(dB μ V/m)	43.6		54(dB μ V/m)

Test Figure: Horizontal



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

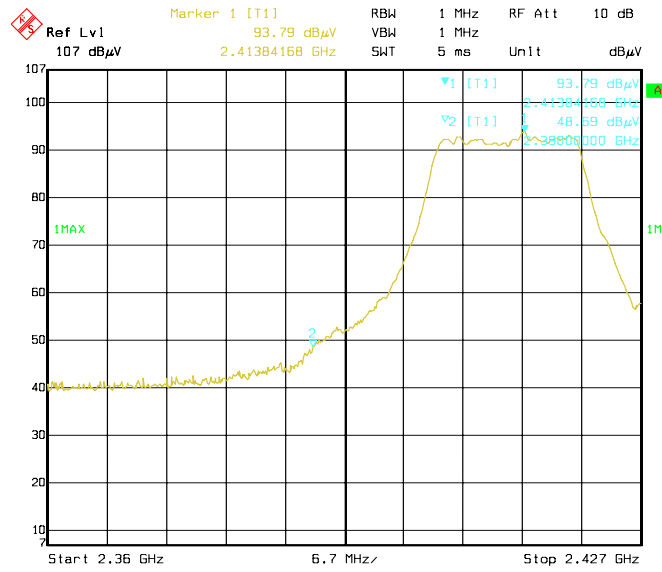
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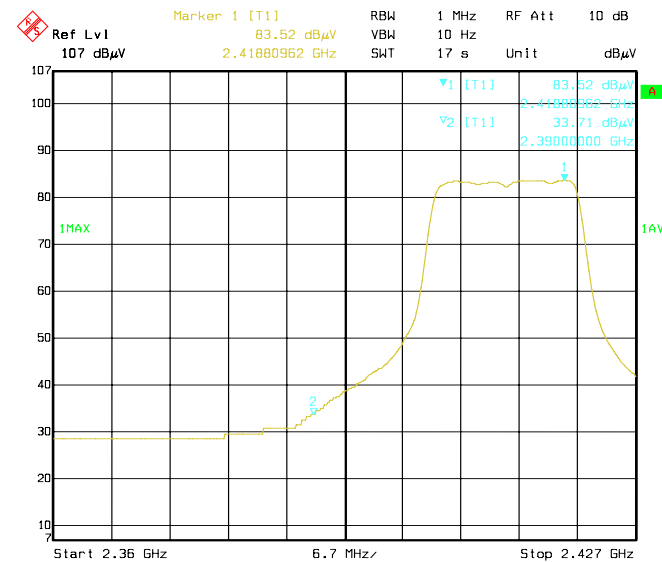
10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH1 at 54Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	54.6	Limit	74(dB μ V/m)
	AV(dB μ V/m)	43.8		54(dB μ V/m)

Test Figure: Vertical



Date: 03.DEC.2007 17:08:49



Date: 03.DEC.2007 17:11:29

Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

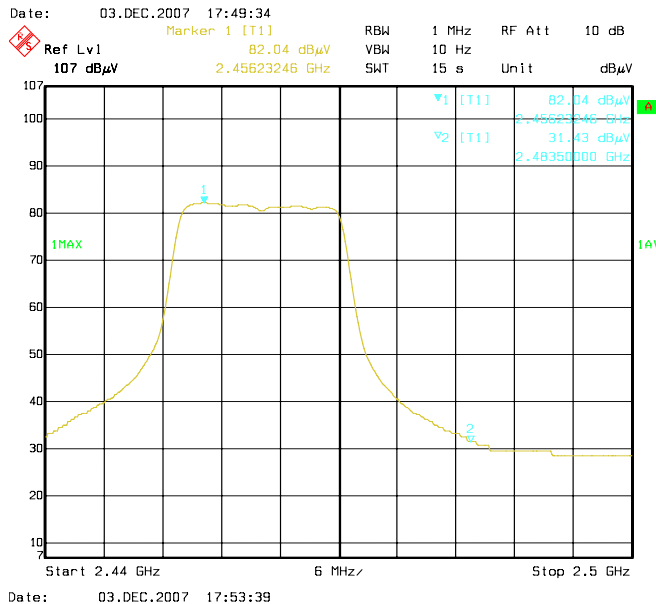
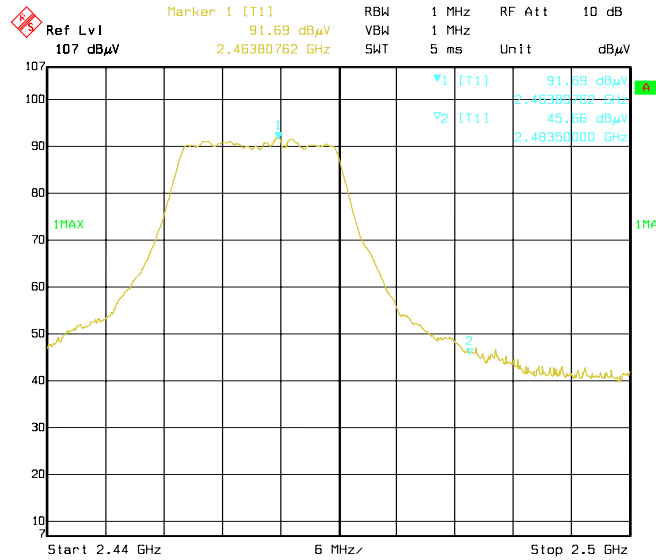
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH11 at 54Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	51.8	Limit	74(dB μ V/m)
	AV(dB μ V/m)	40.7		54(dB μ V/m)

Test Figure: Horizontal



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

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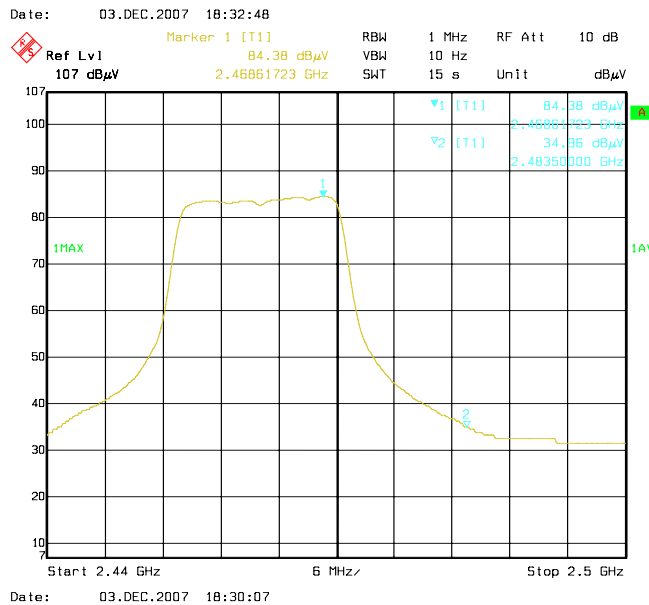
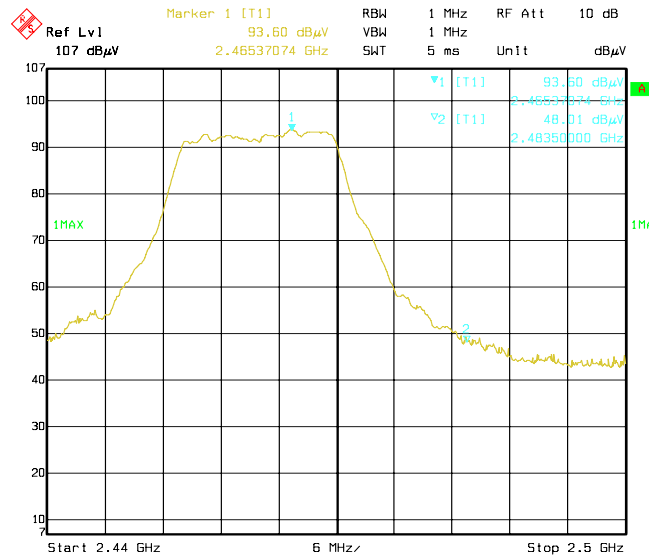
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10.4 Restricted bands

Product:	WiFi PMP		Test Mode:	CH11 at 54Mbps
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK/AV
The Max. FS in Restrict Band	PK (dB μ V/m)	53.2	Limit	74(dB μ V/m)
	AV(dB μ V/m)	43.6		54(dB μ V/m)

Test Figure: Vertical



Note: 1. FS= Field Strength

2. Band-edge measurement are made in the conventional manner

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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 amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

An RF cable connected the IPX connector with the antenna board. The maximum Gain of this antenna is -3dBi.

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12.0 Maximum Permissible Exposure

12.1 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

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

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

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

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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12.2 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
0.501	11.56	14.32	0.001427	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
0.501	13.23	21.04	0.002097	1	Compiles

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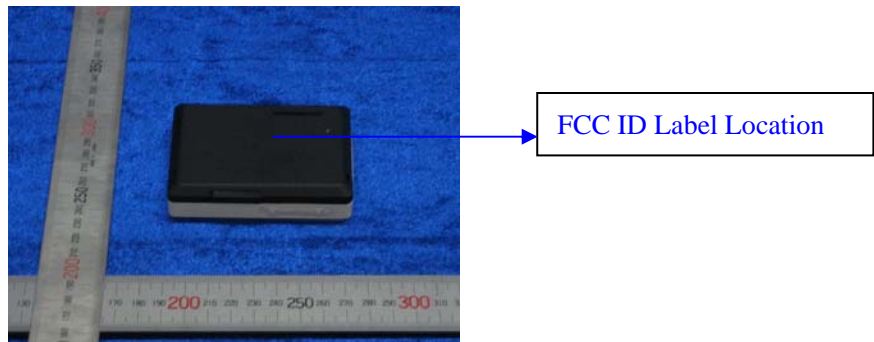
13.0 FCC ID Label

FCC ID: VRI-I280

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:





14.0 Photo of testing

14.1 Conducted test View--



14.2 Emission Radiated test View--



The report refers only to the sample tested and does not apply to the bulk.
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14.3 Photo for the EUT

Outside View



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Interior View



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Interior View



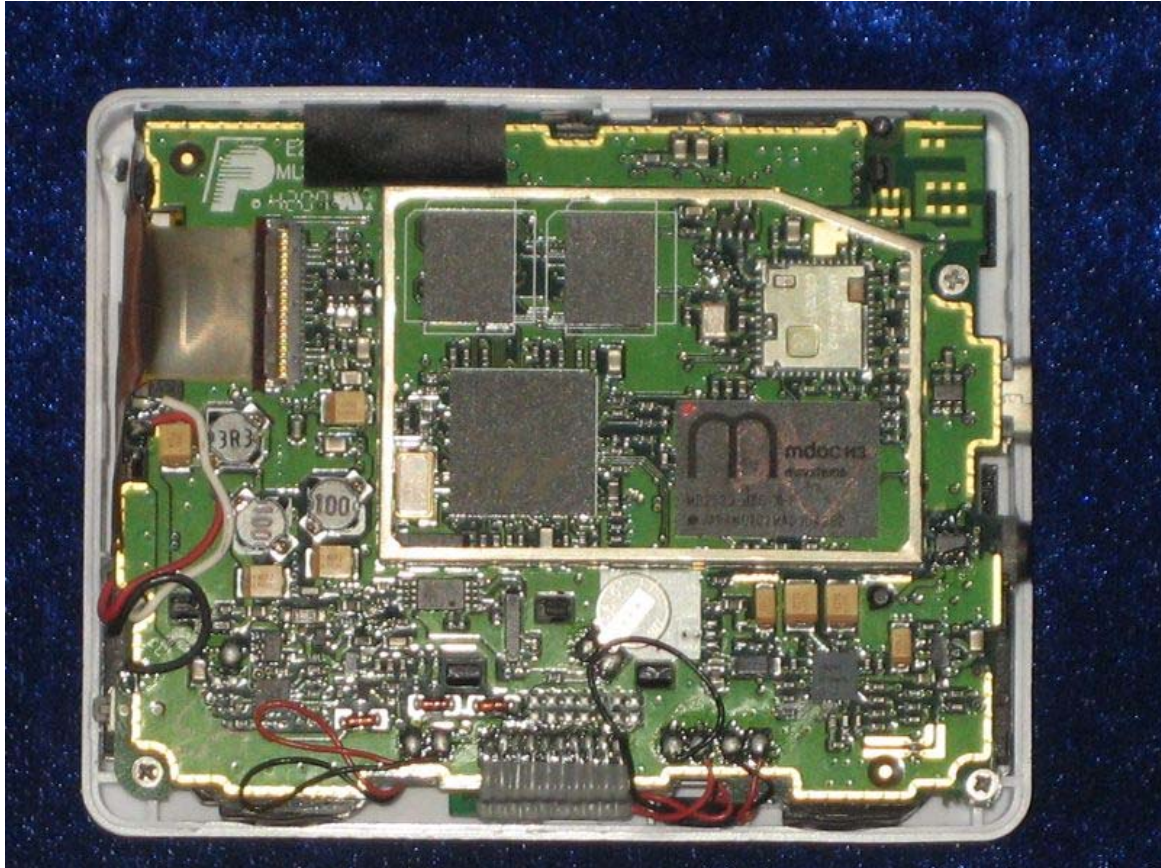
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End of the report

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