



ISO/IEC17025 Accredited Lab.

Report No: FCC 1108196  
File reference No: 2011-09-26

Applicant: Honest Technology

Product: nScreenBox

Model No: HT nScreenBox SM01

Trademark: HT

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: Sep.26, 2011

**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  
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Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-01  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Honest Technology  
Address: Kyung-Dong Bldg, 5F, 906-5 Jijok-Dong, Yuseong-Gu, Daejeon, Korea 305-330  
Telephone: +82-1577-0718  
Fax: +82-1577-0719

### 1.3 Description of EUT

Product:	nScreenBox
Manufacturer:	Shenzhen TENA Electronic Co., Ltd
Brand Name:	HT
Model Number:	HT nScreenBox SM01
Additional model number:	N/A
Power Source Adapter	Model: GSCU1000S005V005 Input: 120VAC~0.25A 60Hz Output: DC 5V, 2.0A
Type of Modulation	DBPSK、DQPSK、CCK、OFDM
Frequency range	2422-2452 MHz for 802.11n HT40 and 2412-2462MHz for 802.11b/g, 802.11n HT20
Antenna Designation:	An RF cable connected the IPX connector with the PCB antenna. The maximum Gain of antenna is 3.48dBi.
Frequency Selection	By software
Channel Number	7 for 802.11n HT40 and 11 channels for 802.11b/g, 802.11n HT20

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1.4 Submitted Sample: 1 Sample

1.5 Test Duration  
2011-08-26 to 2011-09-26

1.6 Test Uncertainty  
Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

*Terry Tang*

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

Print Name: Terry Tang

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2.0		Test Equipments			
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2011-04-26	2012-04-25
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2011-04-26	2012-04-25
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2011-04-26	2012-04-25
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2011-04-26	2012-04-25
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2011-04-26	2012-04-25
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2011-04-26	2012-04-25
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2011-04-26	2012-04-25
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2011-04-26	2012-04-25
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2011-04-26	2012-04-25
System Controller	CT	SC100	-	2011-04-26	2012-04-25
Printer	EPSON	PHOTO EX3	CFNH234850	2011-04-26	2012-04-25
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2011-04-26	2012-04-25
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2011-04-26	2012-04-25
Computer	IBM	8434	1S8434KCE99BLX LO*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2011-04-26	2012-04-25
Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2011-04-26	2012-04-25
CDN	EM TEST	CDN M2/M3	-	2011-04-26	2012-04-25
Attenuation	EM TEST	ATT6/75	-	2011-04-26	2012-04-25
Resistance	EM TEST	R100	-	2011-04-26	2012-04-25

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Electromagnetic Injection Clamp	LITTHI	EM101	35708	2011-04-26	2012-04-25
Inductive Components	EM TEST	MC2630	-	2011-04-26	2012-04-25
Antenna	EM TEST	MS100	-	2011-04-26	2012-04-25
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2011-04-26	2012-04-25
Power Amplifier	AR	150W1000	300999	2011-04-26	2012-04-25
Field probe	Holaday	HI-6005	105152	2011-04-26	2012-04-25
Bilog Antenna	Chase	CBL6111C	2576	2011-04-26	2012-04-25
Loop Antenna	EMCO	6502	00042960	2011-04-26	2012-04-25
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2011-04-26	2012-04-25
3m OATS	--	--	N/A	2011-04-26	2012-04-25

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### 3.0 Technical Details

#### 3.1 Description of test modes

##### IEEE 802.11b, 802.11g, 802.11n HT20mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

##### IEEE 802.11n HT40mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2422
Middle	2437
High	2452

IEEE 802.11b mode : 11Mbps data rate (worst case) were chosen for full testing. IEEE 802.11g mode : 54Mbps data rate (worst case) were chosen for full testing. IEEE 802.11n HT20 mode : 65Mbps data rate (worst case) were chosen for full testing. IEEE 802.11n HT40 mode : 135Mbps data rate (worst case) were chosen for full testing.

The worst-case data rates are determined according to the description above, based on the investigations by measuring the PSD and average power across all the data rates, bandwidths, modulations and spatial stream modes.

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### 3.0 Technical Details

### 3.2 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(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	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

### 3.3 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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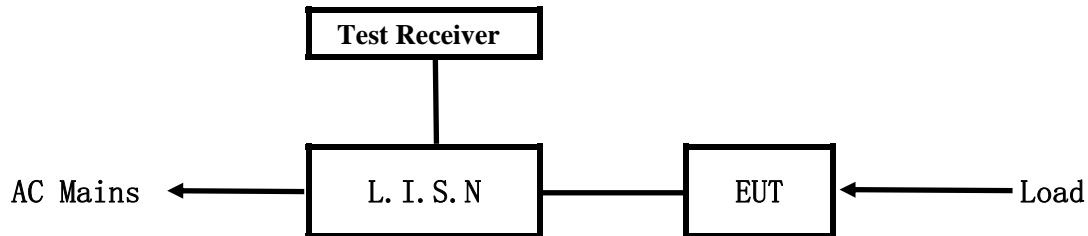
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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test



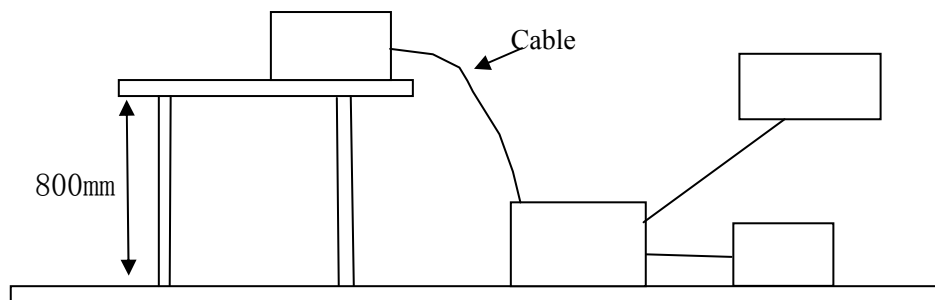
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2009. 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 –2009.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 5.3 Configuration of The EUT

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

#### A. EUT

Device	Manufacturer	Model	FCC ID
nScreenBox	Shenzhen TENA Electronic Co., Ltd	HT nScreenBox SM01	TJWNSCREENSM

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
U-disk	Netac	U208	FCC DOC	--
Monitor	SAMSUNG	P2450	FCC DOC	Data cable of 1.5m length

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2009.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequency (MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

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

5.6 Test Results

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

Note: the worse cases was selected to conducted the test

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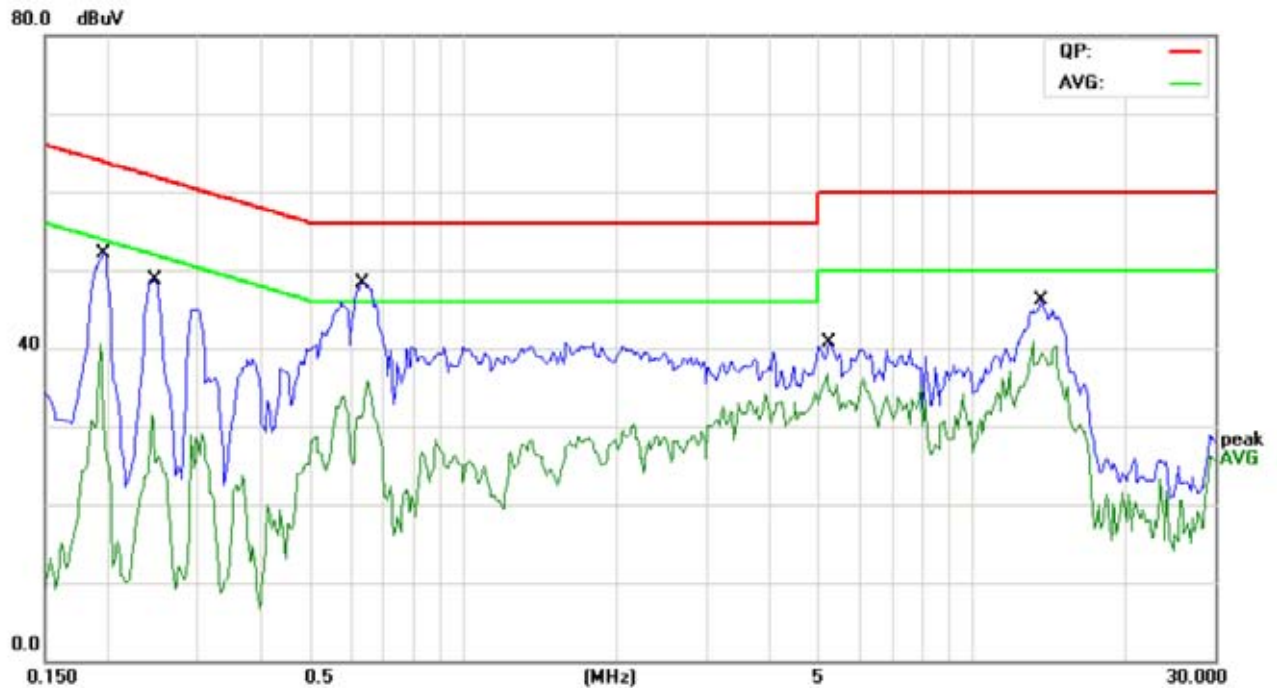


# **A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: **Ping Wireless Network, Full Load**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.193	46.62	29.89	--	--	63.90	53.90
0.247	44.58	28.48	--	--	61.83	51.83
0.638	44.17	32.52	--	--	56.00	46.00
5.230	36.83	31.51	--	--	60.00	50.00
13.691	40.35	32.94	--	--	60.00	50.00

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

EUT set Condition: **Ping Wireless Network, Full Load**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.193	--	--	47.74	30.43	63.90	53.90
0.235	--	--	45.33	27.84	62.24	52.24
0.653	--	--	45.76	35.97	56.00	46.00
5.250	--	--	38.71	32.09	60.00	50.00
7.621	--	--	34.89	26.57	60.00	50.00

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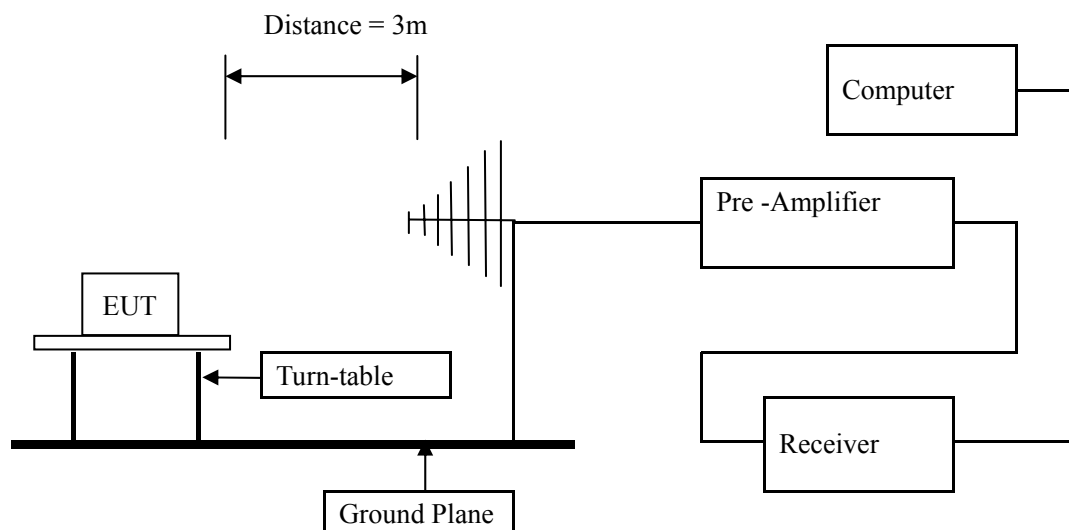
## 6.0 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2009. 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 C63.4-2009.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna 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.

Test Voltage: 120V~, 60Hz

#### Block diagram of Test setup



### 6.2 Configuration of The EUT

Same as section 5.3 of this report

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ 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 ( $\mu$ V)
  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: **Ping Wireless Network, Full Load**

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
245.825	42.34	H	46.00
405.875	41.72	H	46.00
541.675	42.65	H	46.00
677.475	43.26	H	46.00
810.850	41.41	H	46.00
946.650	42.63	H	46.00
946.650	43.56	V	46.00
730.825	42.79	V	46.00
650.800	43.92	V	46.00
541.675	43.65	V	46.00
488.325	40.92	V	46.00
73.650	36.10	V	40.00

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

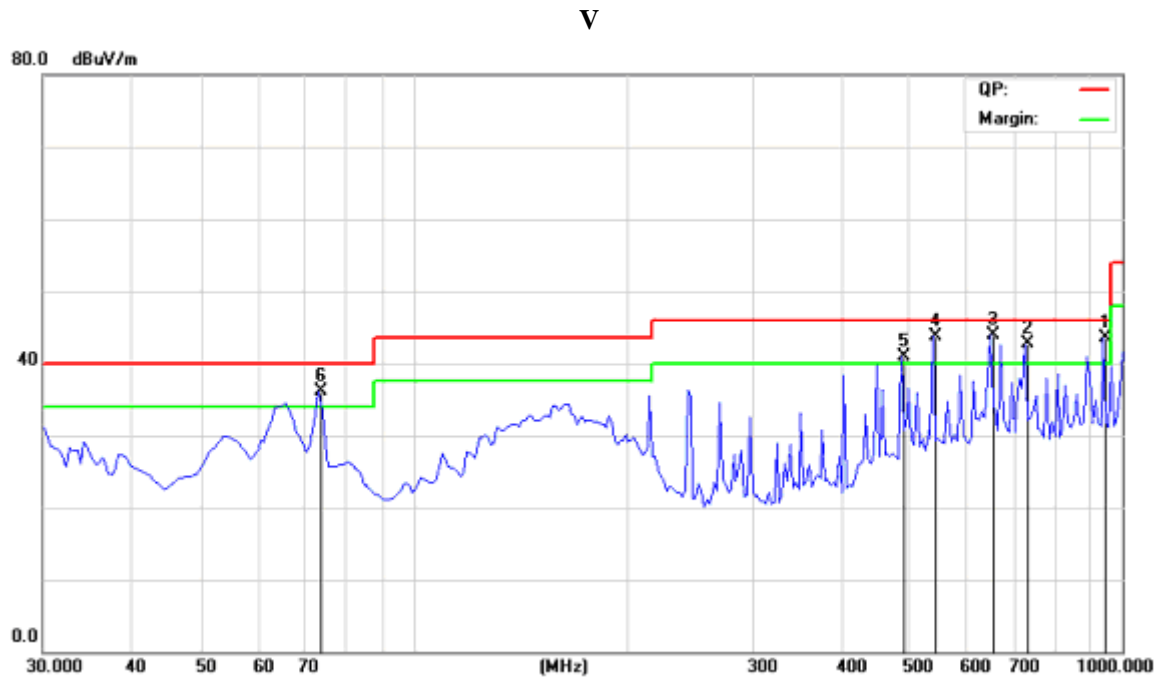
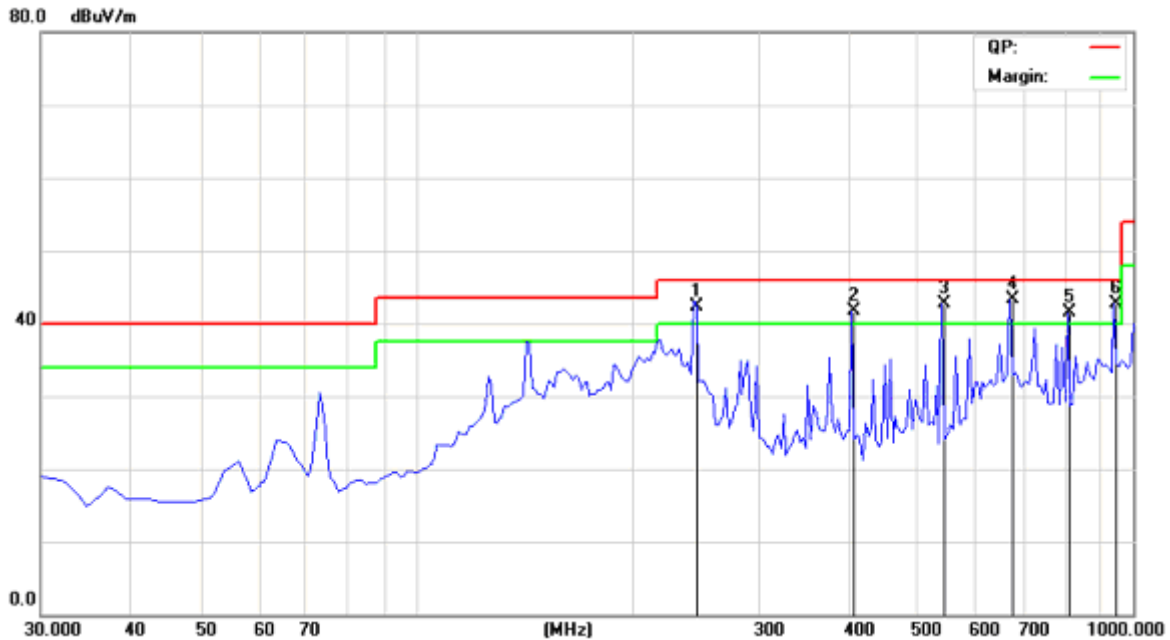
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Test Figure:



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**Operation Mode: Keep Transmitting in CH01 at 54Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	90.08 (PK)	H	Fundamental Frequency
2412.00	99.76 (PK)	V	
4824.00	48.03 (PK)	H	74(Peak)/ 54(AV)
4824.00	49.79 (PK)	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)
16884	--	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 54Mbps



**Operation Mode: Keep Transmitting in CH06 at 54Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	91.52 (PK)	H	Fundamental Frequency
2437.00	98.02 (PK)	V	
4874.00	48.54 (PK)	H	74(Peak)/ 54(AV)
4874.00	50.18 (PK)	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 54Mbps

**Operation Mode: Keep Transmitting in CH11 at 54Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	98.84 (PK)	V	Fundamental Frequency
2462.00	93.21 (PK)	H	
4924	46.84 (PK)	H	74(Peak)/ 54(AV)
4924	48.21 (PK)	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 54Mbps

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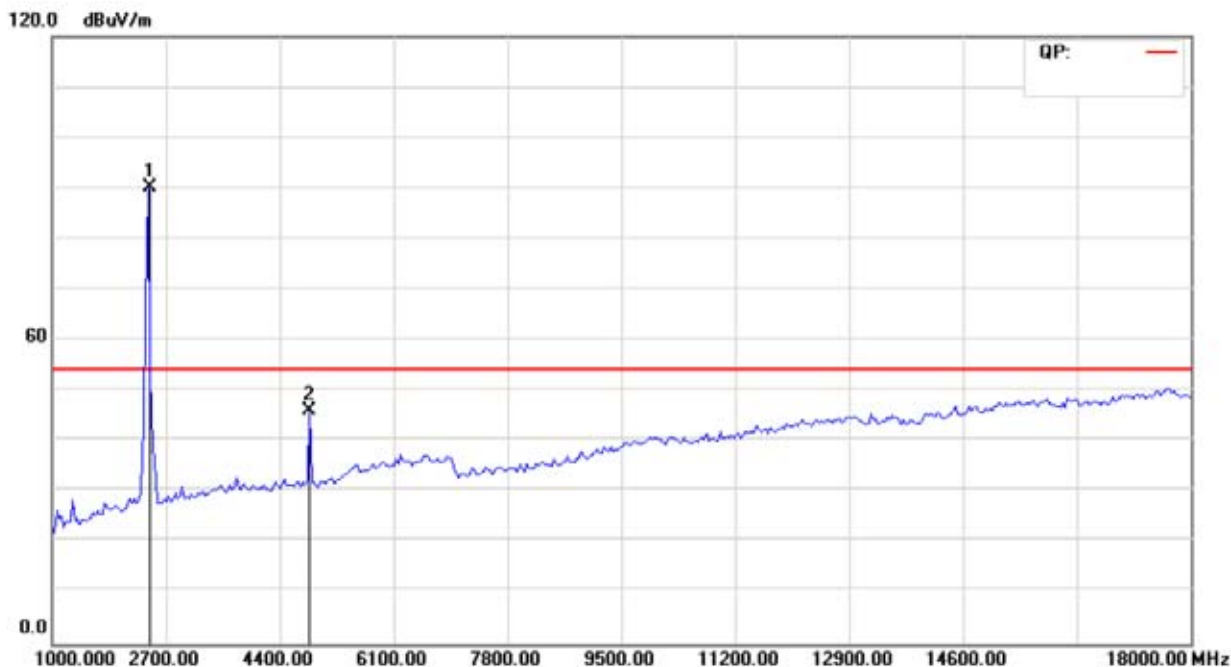
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Please refer to the following test plots for details:

**CH01 at 54Mbps: Horizontal**



**CH01 at 54Mbps: Vertical**



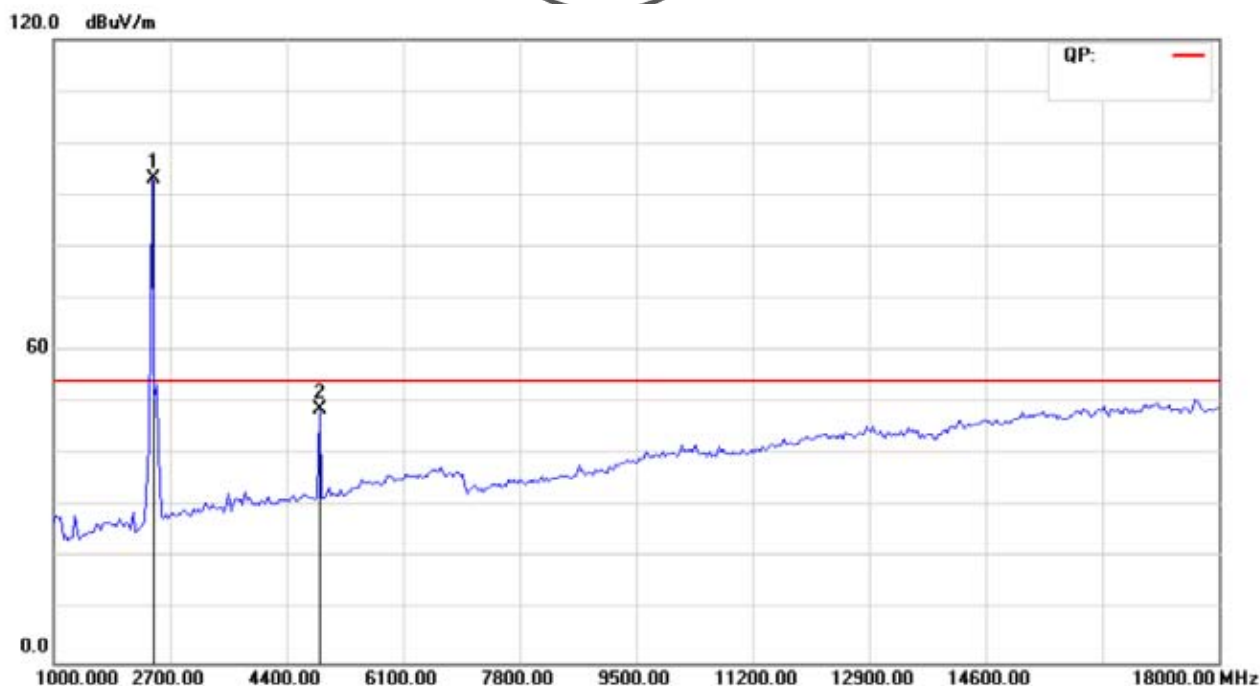
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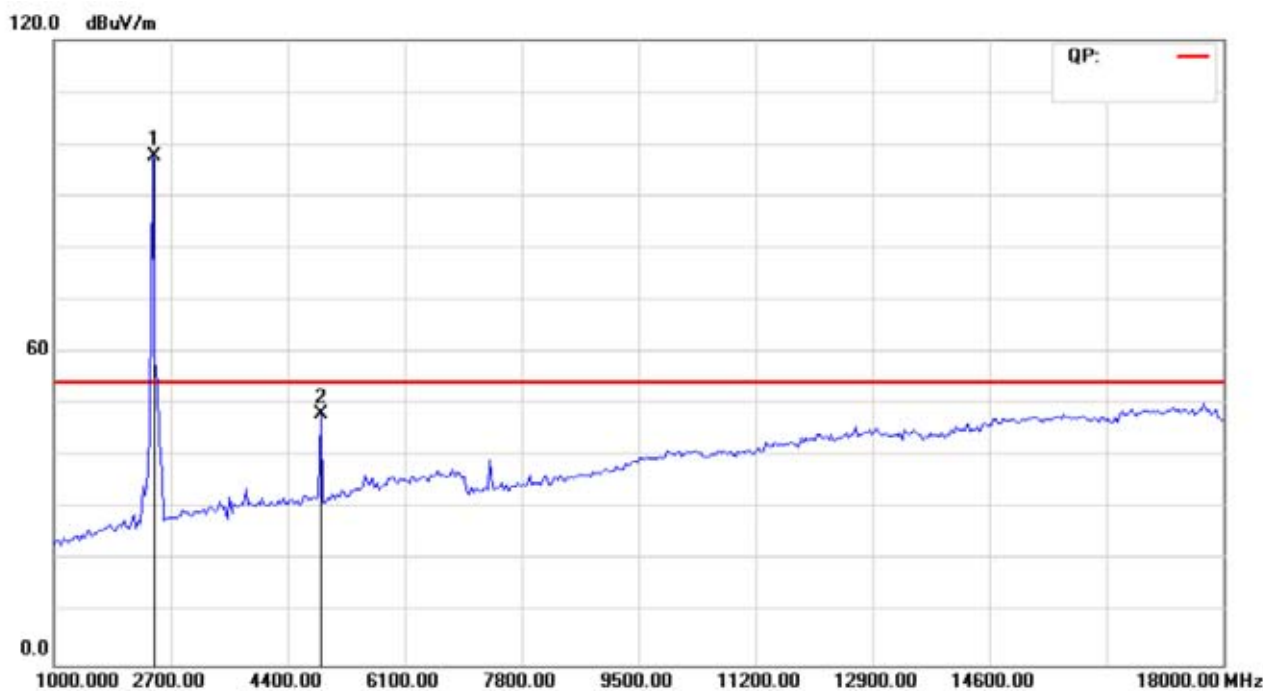
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### CH06 at 54Mbps: Horizontal



### CH06 at 54Mbps: Vertical



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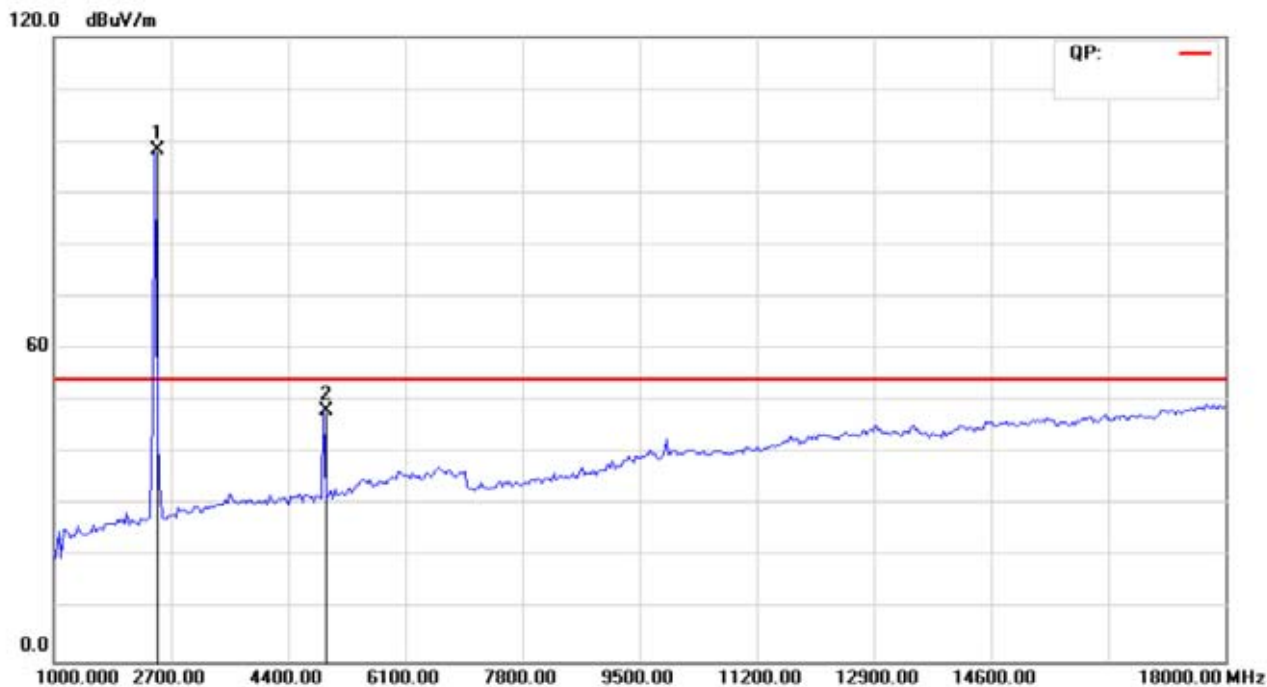
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### CH11 at 54Mbps: Horizontal



### CH11at 54Mbps: Vertical



**Note: For the radiated emissions from 18GHz-25GHz, it is the floor noise that meets the requirement of FCC rule.**

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**Operation Mode: Keep Transmitting in CH01 at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	92.35 (PK)	H	Fundamental Frequency
2412.00	101.43 (PK)	V	
4824.00	47.23 (PK)	H	74(Peak)/ 54(AV)
4824.00	50.53 (PK)	V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

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

**Operation Mode: Keep Transmitting in CH06 at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	92.48 (PK)	H	Fundamental Frequency
2437.00	100.06 (PK)	V	
4874.00	47.09 (PK)	H	74(Peak)/ 54(AV)
4874.00	50.13(PK)	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 **11Mbps**

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**Operation Mode: Keep Transmitting in CH11 at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	92.07(PK)	H	Fundamental Frequency
2462.00	100.70(PK)	V	
4924	47.69(PK)	H	74(Peak)/ 54(AV)
4924	49.83(PK)	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 **11Mbps**

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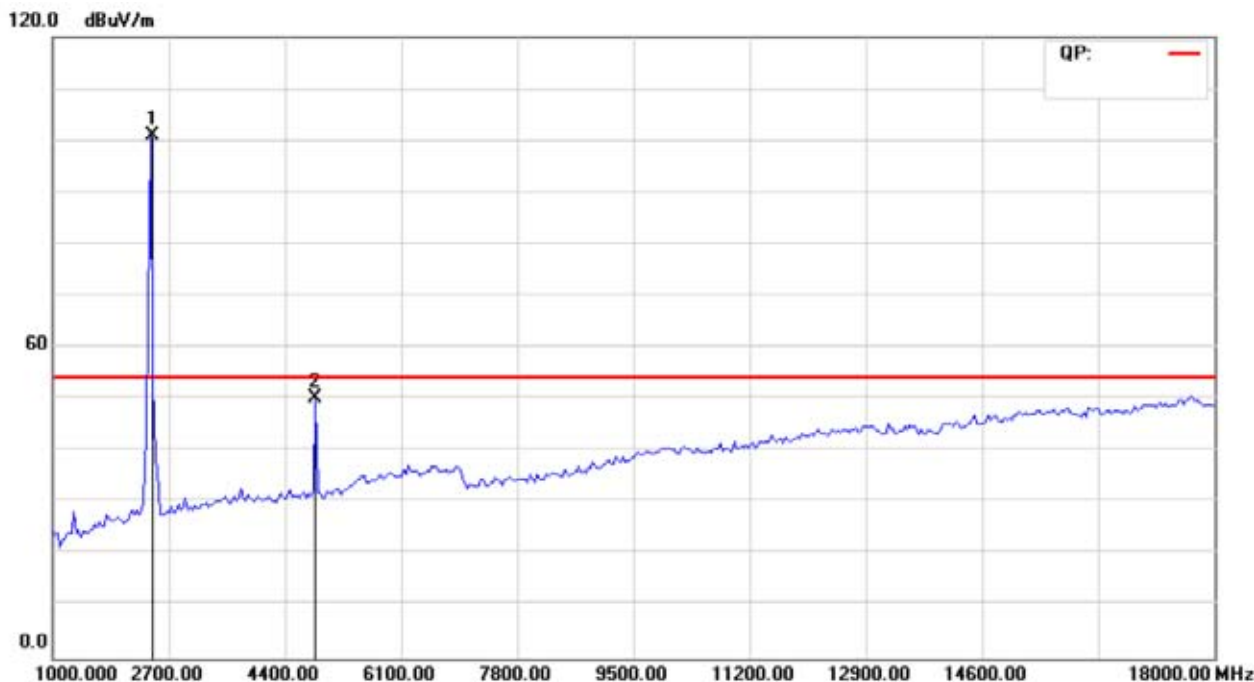


Please refer to the following test plots for details:

**CH01 at 11Mbps: Horizontal**



**CH01 at 11Mbps: Vertical**



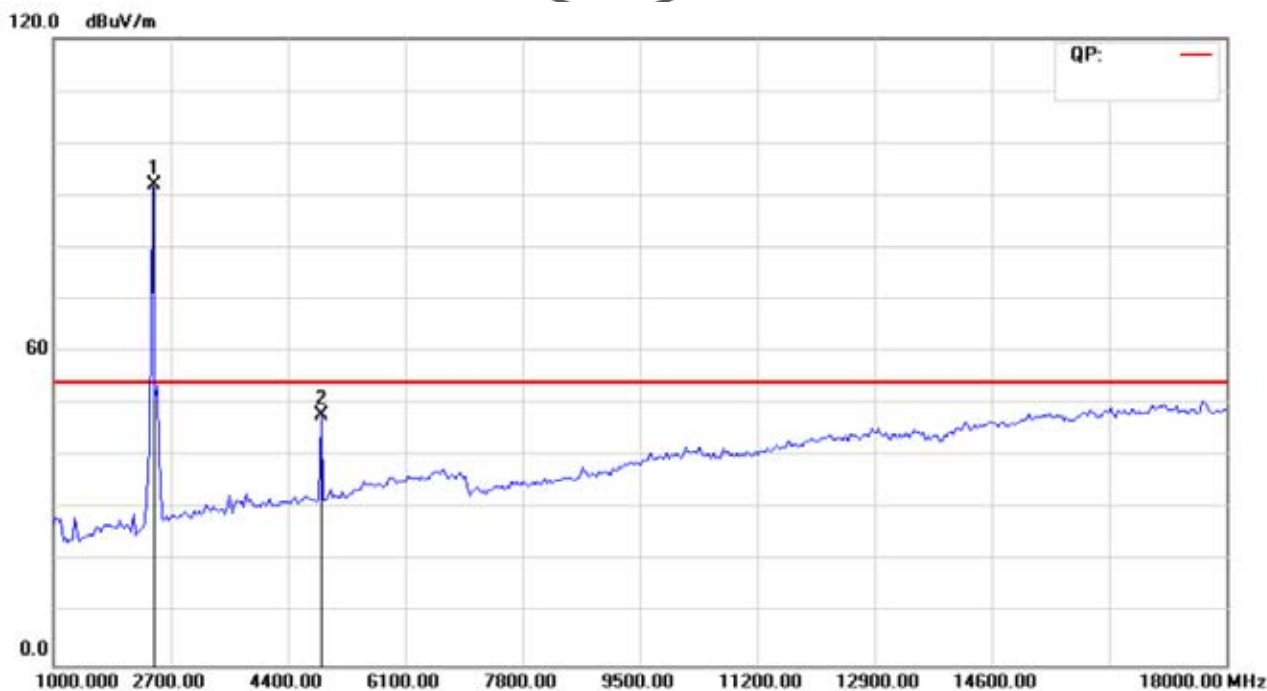
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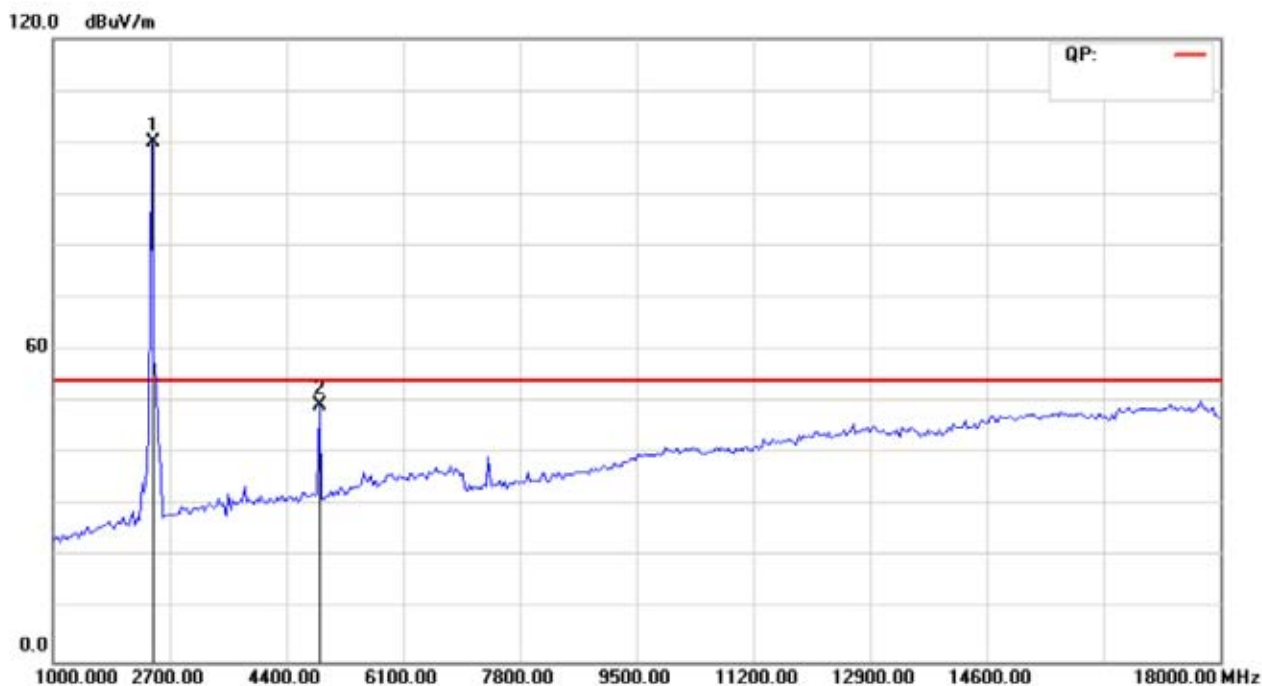
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### CH06 at 11Mbps: Horizontal



### CH06 at 11Mbps: Vertical



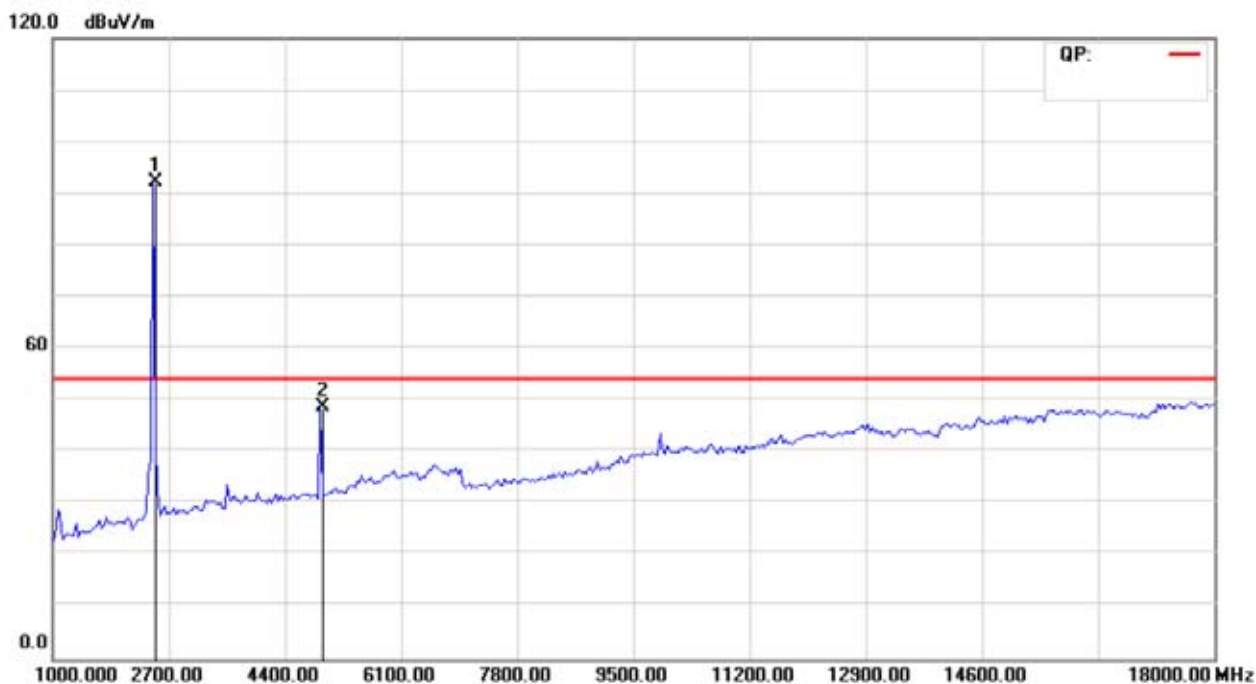
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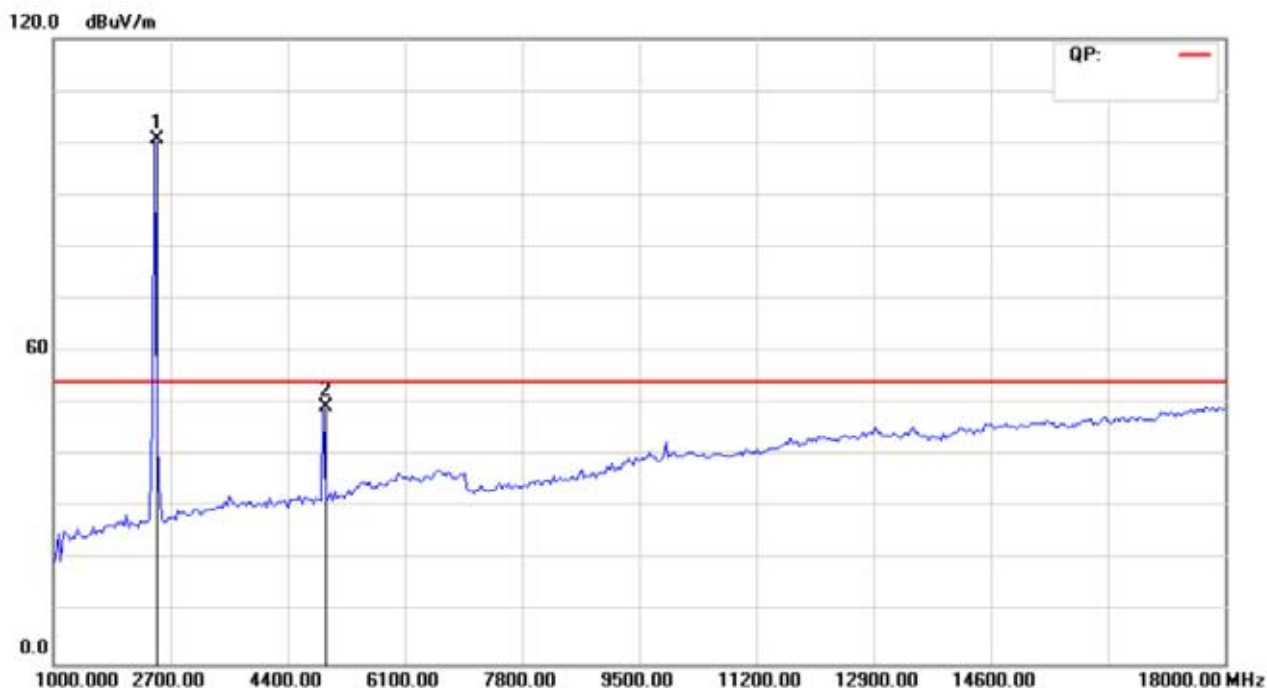
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### CH11 at 11Mbps: Horizontal



### CH11 at 11Mbps: Vertical



**Note: For the radiated emissions from 18GHz-25GHz, it is the floor noise that meet the requirement of FCC rule.**

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**Operation Mode: Keep Transmitting in CH01 at 65Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	83.02 (PK)	H	Fundamental Frequency
2412.00	89.83 (PK)	V	
4824.00	--	H	74(Peak)/ 54(AV)
4824.00	--	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 802.11n HT20 mode at **65Mbps**

**Operation Mode: Keep Transmitting in CH06 at 65Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	83.08 (PK)	H	Fundamental Frequency
2437.00	90.01 (PK)	V	
4874.00	--	H	74(Peak)/ 54(AV)
4874.00	--	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 802.11n HT20 mode at **65Mbps**

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**Operation Mode: Keep Transmitting in CH11 at 65Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	84.37 (PK)	H	Fundamental Frequency
2462.00	89.20 (PK)	V	
4924	--	H	74(Peak)/ 54(AV)
4924	--	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 802.11n HT20 mode at **65Mbps**



Please refer to the following test plots for details:

**CH01 at 65Mbps: Horizontal**



**CH01 at 65Mbps: Vertical**



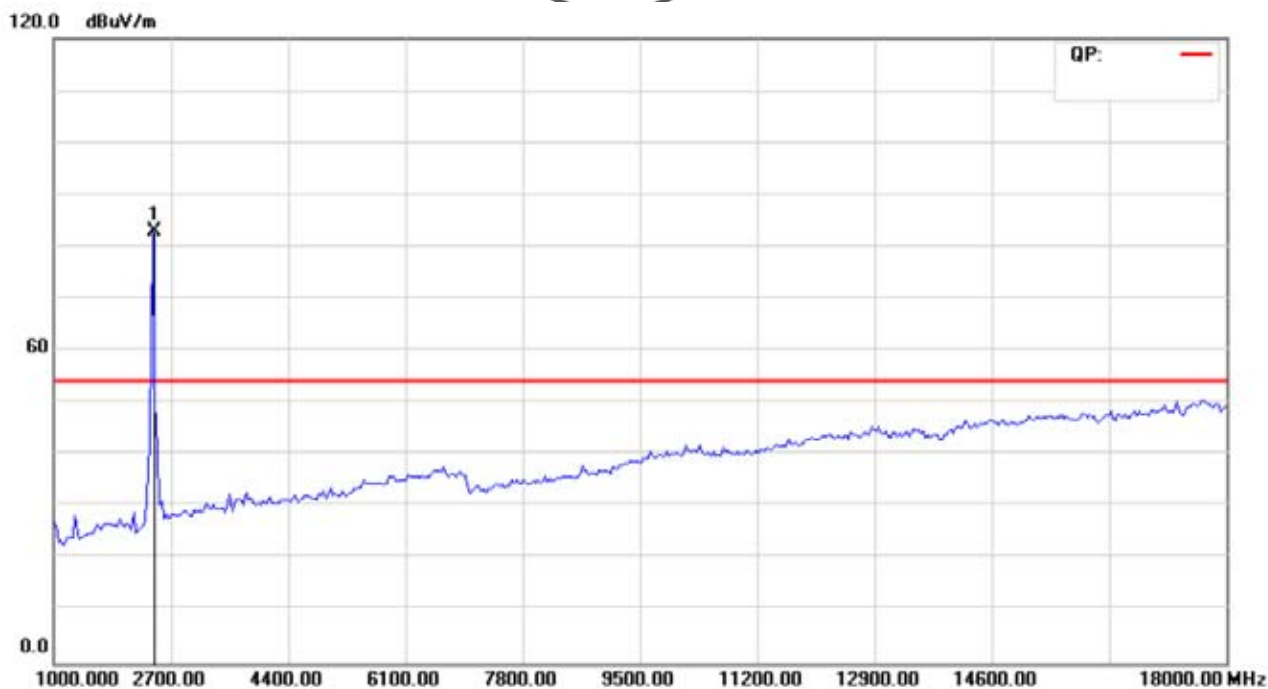
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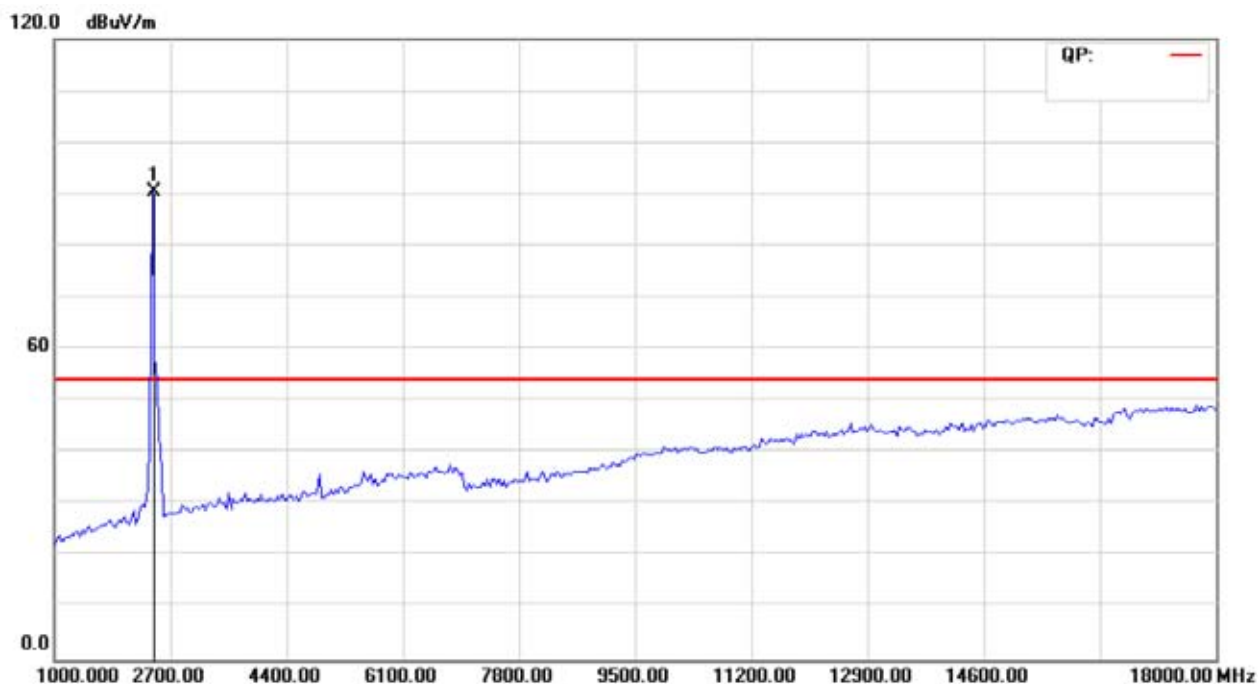
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### CH06 at 65Mbps: Horizontal



### CH06 at 65Mbps: Vertical



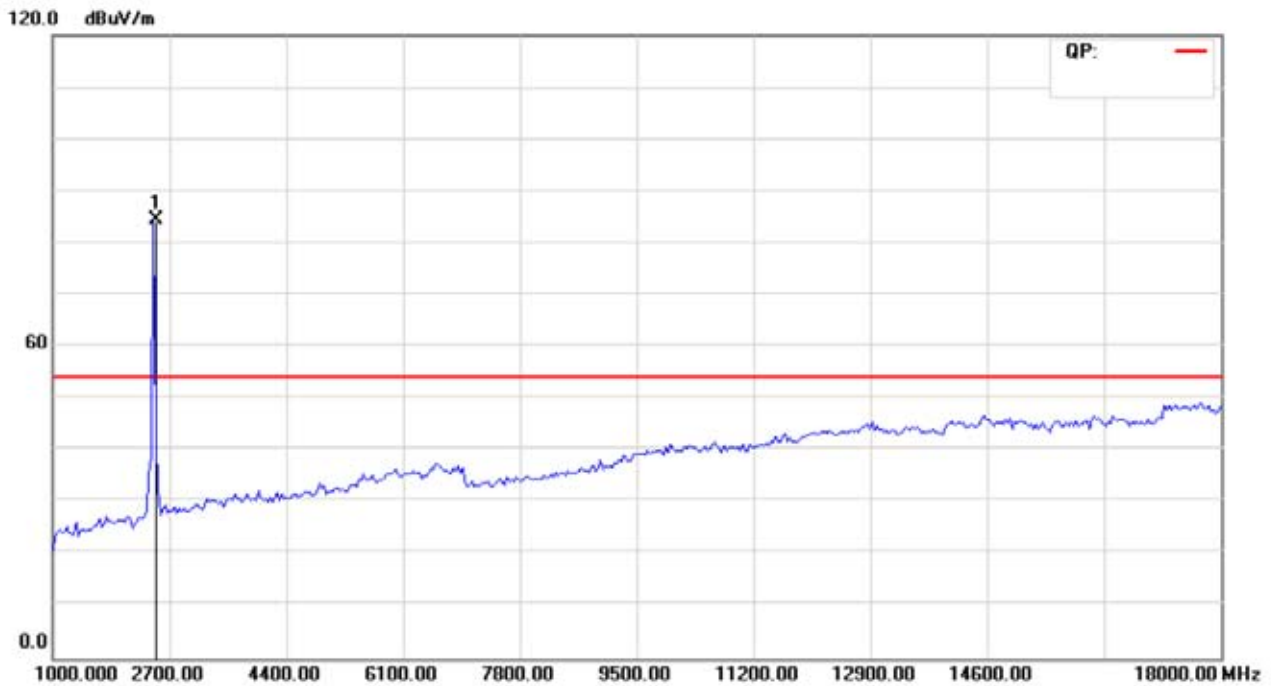
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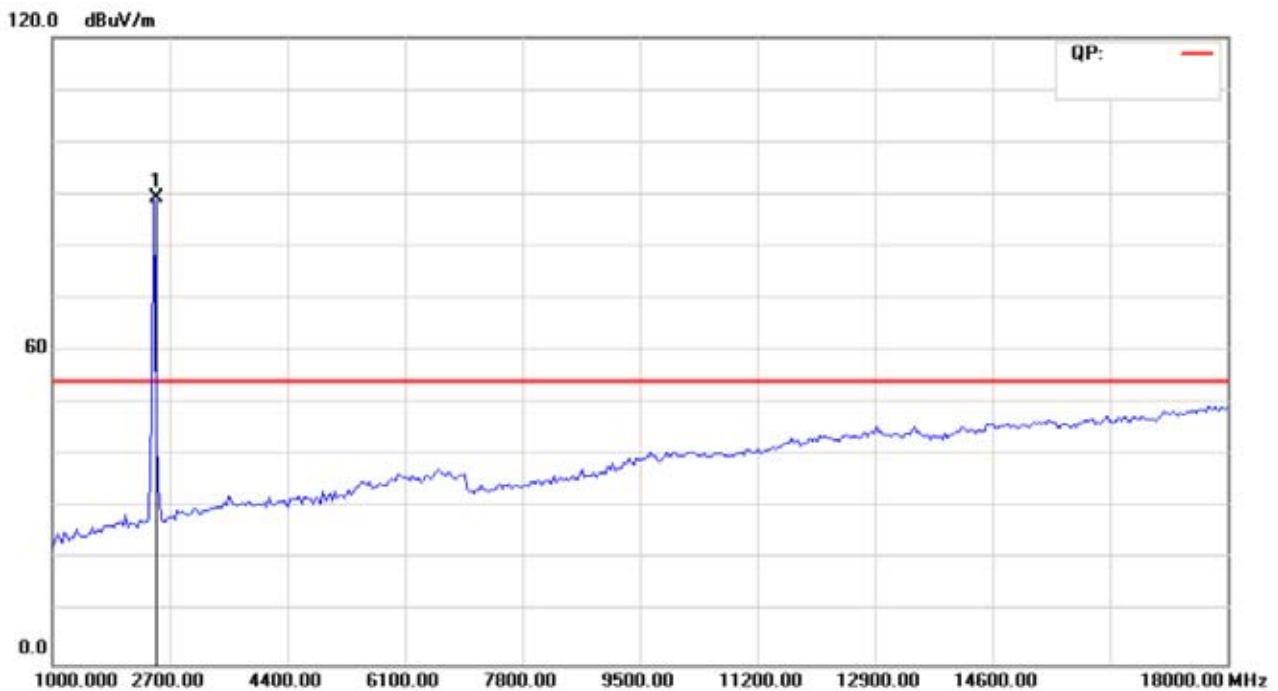
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### CH11 at 65Mbps: Horizontal



### CH11 at 65Mbps: Vertical



**Note: For the radiated emissions from 18GHz-25GHz, it is the floor noise that meet the requirement of FCC rule.**

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**Operation Mode: Keep Transmitting in CH01 at 135Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2422.00	75.52 (PK)	H	Fundamental Frequency
2422.00	81.02 (PK)	V	
4824.00	--	H	74(Peak)/ 54(AV)
4824.00	--	V	74(Peak)/ 54(AV)
7266.00	--	H/V	74(Peak)/ 54(AV)
9688.00	--	H/V	74(Peak)/ 54(AV)
12110	--	H/V	74(Peak)/ 54(AV)
14532	--	H/V	74(Peak)/ 54(AV)
16954	--	H/V	74(Peak)/ 54(AV)
19376	--	H/V	74(Peak)/ 54(AV)
21798	--	H/V	74(Peak)/ 54(AV)
24220	--	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 802.11n HT40 mode at **135Mbps**

**Operation Mode: Keep Transmitting in CH04 at 135Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	74.08 (PK)	H	Fundamental Frequency
2437.00	82.06(PK)	V	
4874.00	--	H	74(Peak)/ 54(AV)
4874.00	--	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 802.11n HT40 mode at **135Mbps**

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**Operation Mode: Keep Transmitting in CH07 at 135Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2452.00	75.37(PK)	H	Fundamental Frequency
2452.00	81.70(PK)	V	
4904	--	H	74(Peak)/ 54(AV)
4904	--	V	74(Peak)/ 54(AV)
7356	--	H/V	74(Peak)/ 54(AV)
9808	--	H/V	74(Peak)/ 54(AV)
12260	--	H/V	74(Peak)/ 54(AV)
14712	--	H/V	74(Peak)/ 54(AV)
17164	--	H/V	74(Peak)/ 54(AV)
19616	--	H/V	74(Peak)/ 54(AV)
22068	--	H/V	74(Peak)/ 54(AV)
24520	--	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 802.11n HT40 mode at **135Mbps**

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Please refer to the following test plots for details:

**CH03 at 135Mbps: Horizontal**



**CH03 at 135Mbps: Vertical**



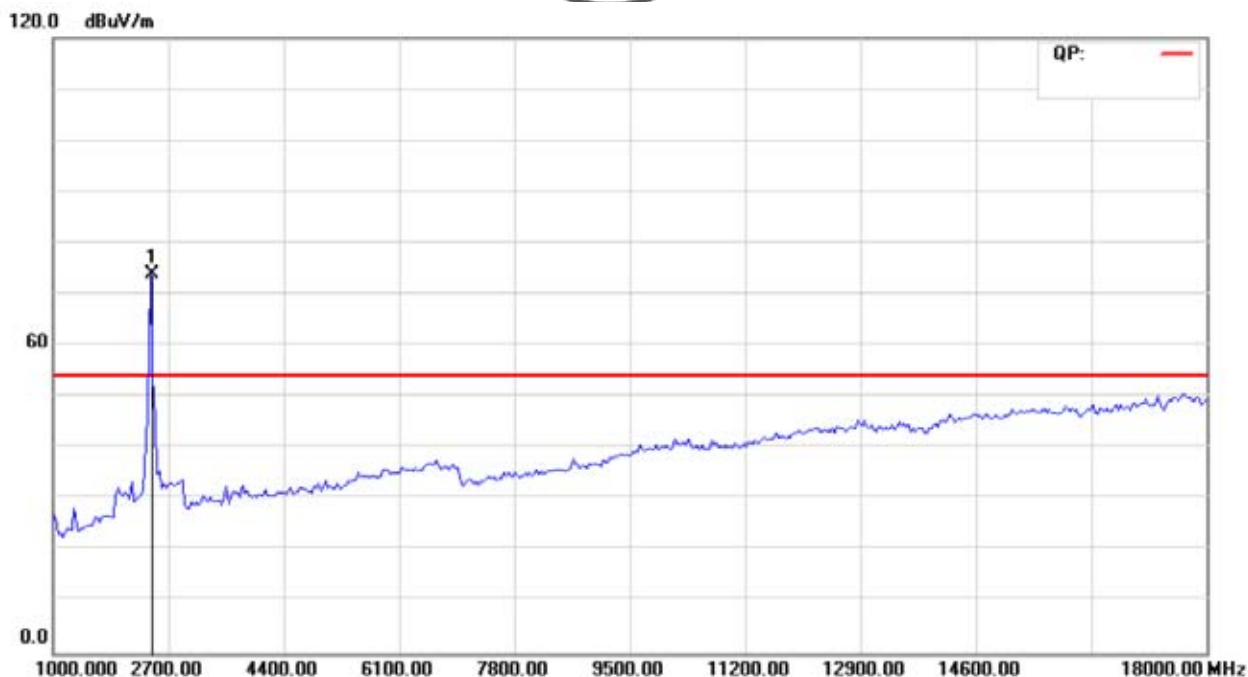
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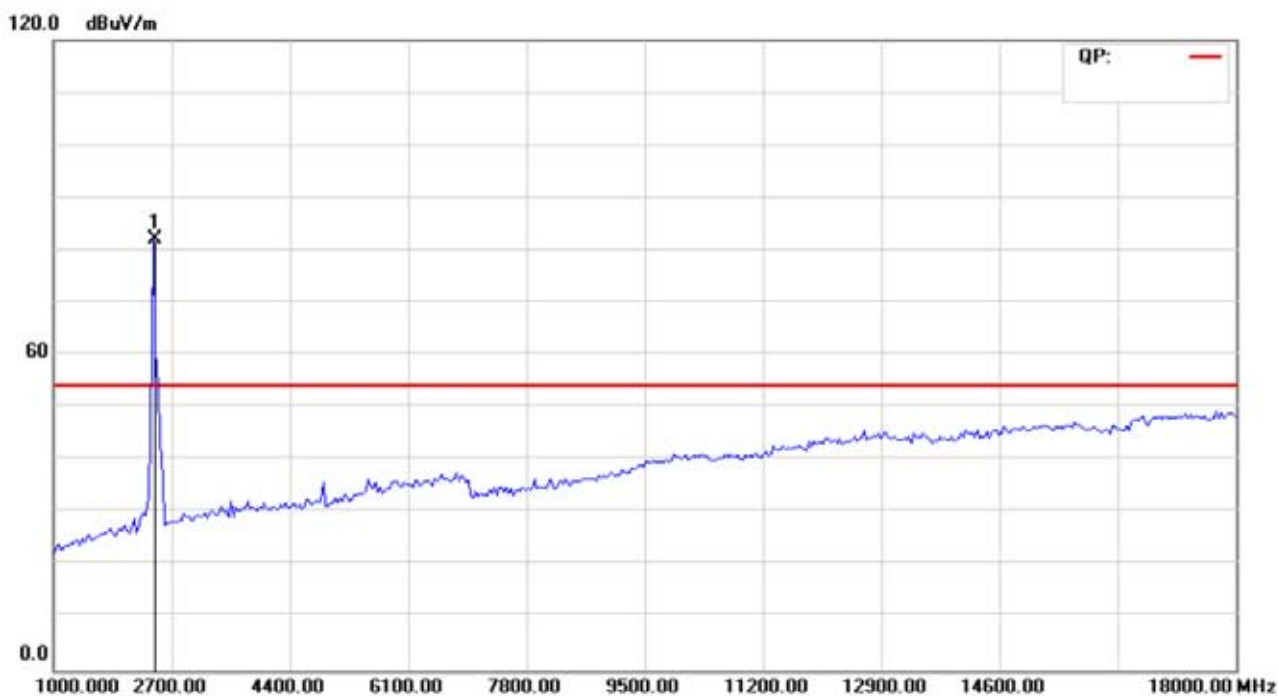
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### CH06 at 135Mbps: Horizontal



### CH06 at 135Mbps: Vertical



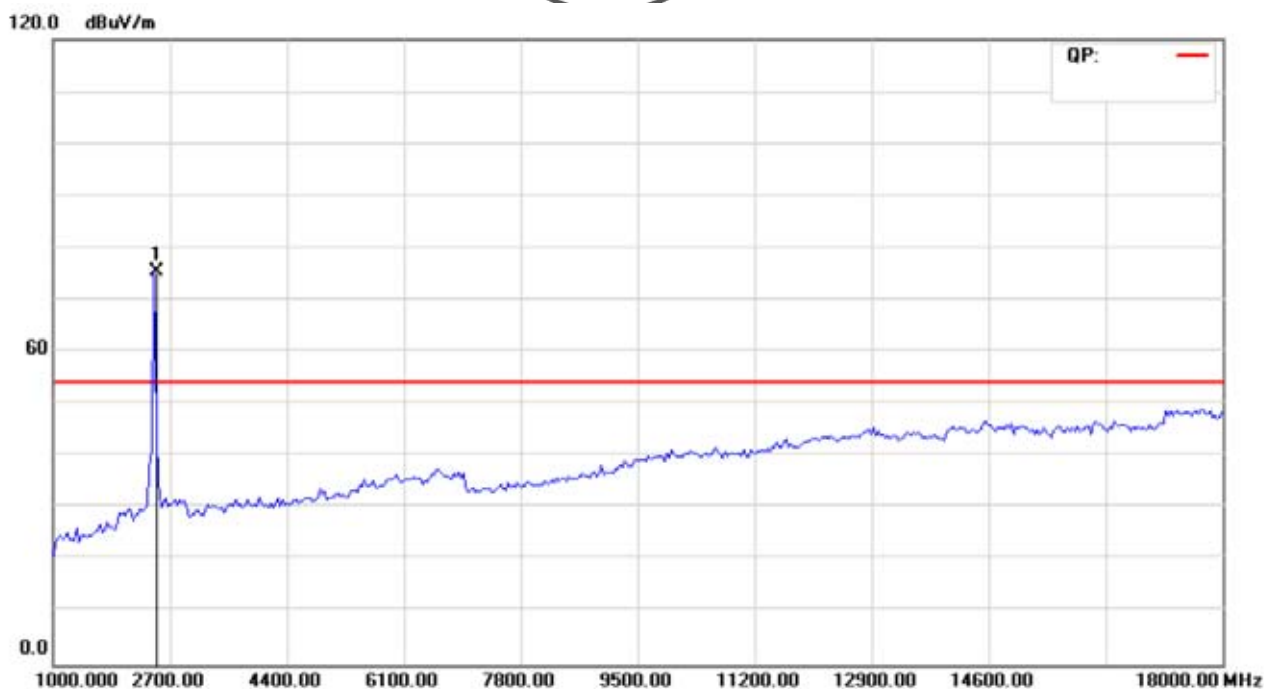
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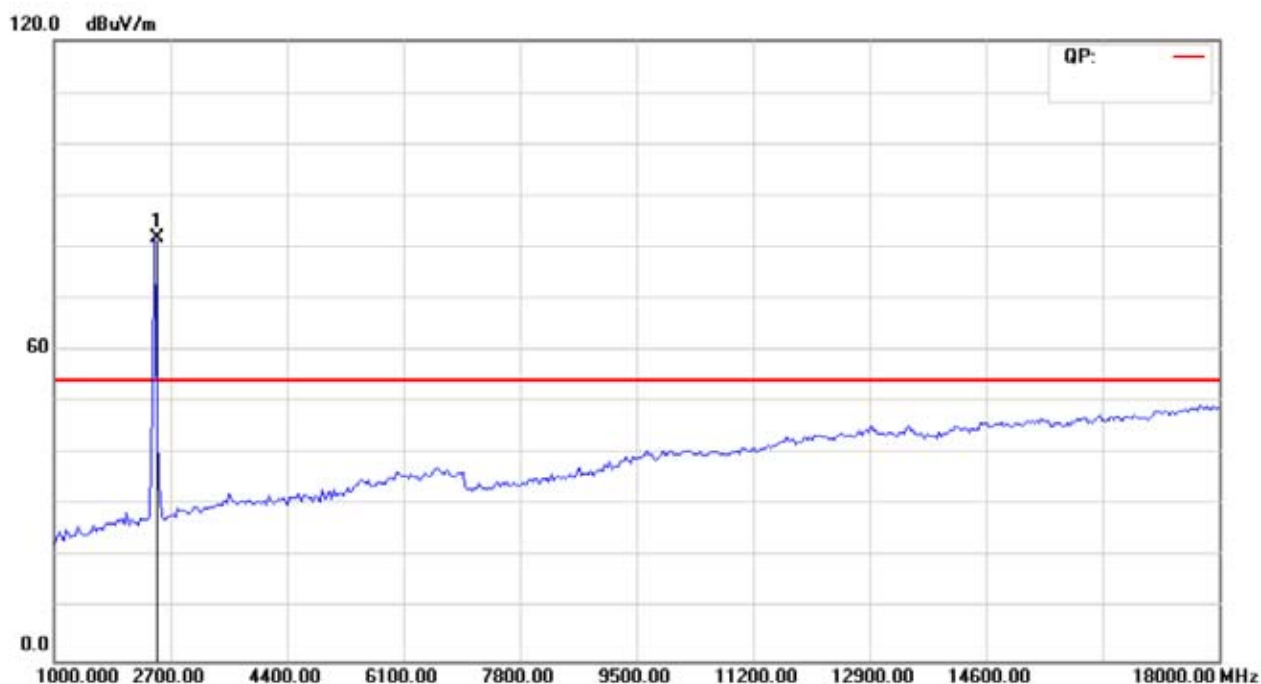
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### CH09 at 135Mbps: Horizontal



### CH09 at 135Mbps: Vertical



**Note: For the radiated emissions from 18GHz-25GHz, it is the floor noise that meet the requirement of FCC rule.**

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

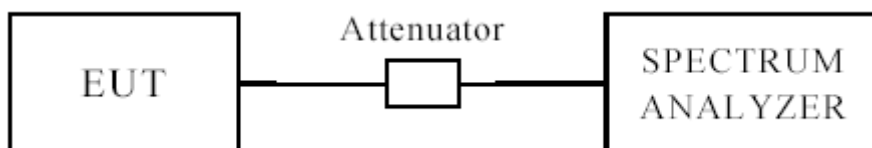
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## 7.0 6dB Bandwidth Measurement

### 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 for 802.11b/g/n mode; The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

### 7.4 Test Result

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EUT		nScreenBox		Model	HT nScreenBox SM01	
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	11	11.06	0.5	Pass	
6	2437	11	11.02	0.5	Pass	
11	2462	11	10.42	0.5	Pass	

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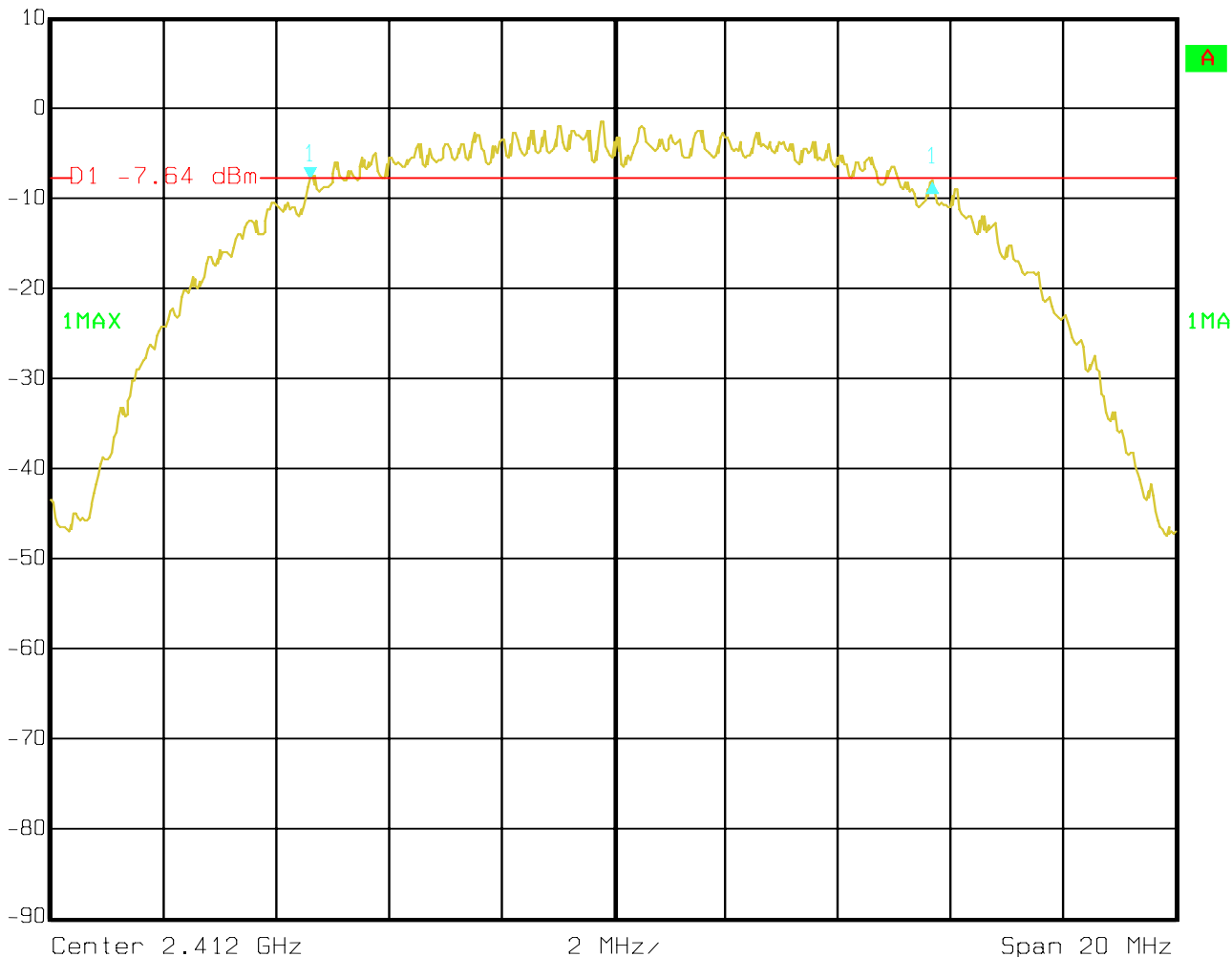
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1. 802.11b at 11Mbps of CH01



Delta 1 [T1] RBW 100 kHz RF Att 20 dB  
Ref Lvl -0.13 dB VBW 100 kHz  
10 dBm 11.06212425 MHz SWT 5 ms Unit dBm



Date: 21.SEP.2011 16:25:33

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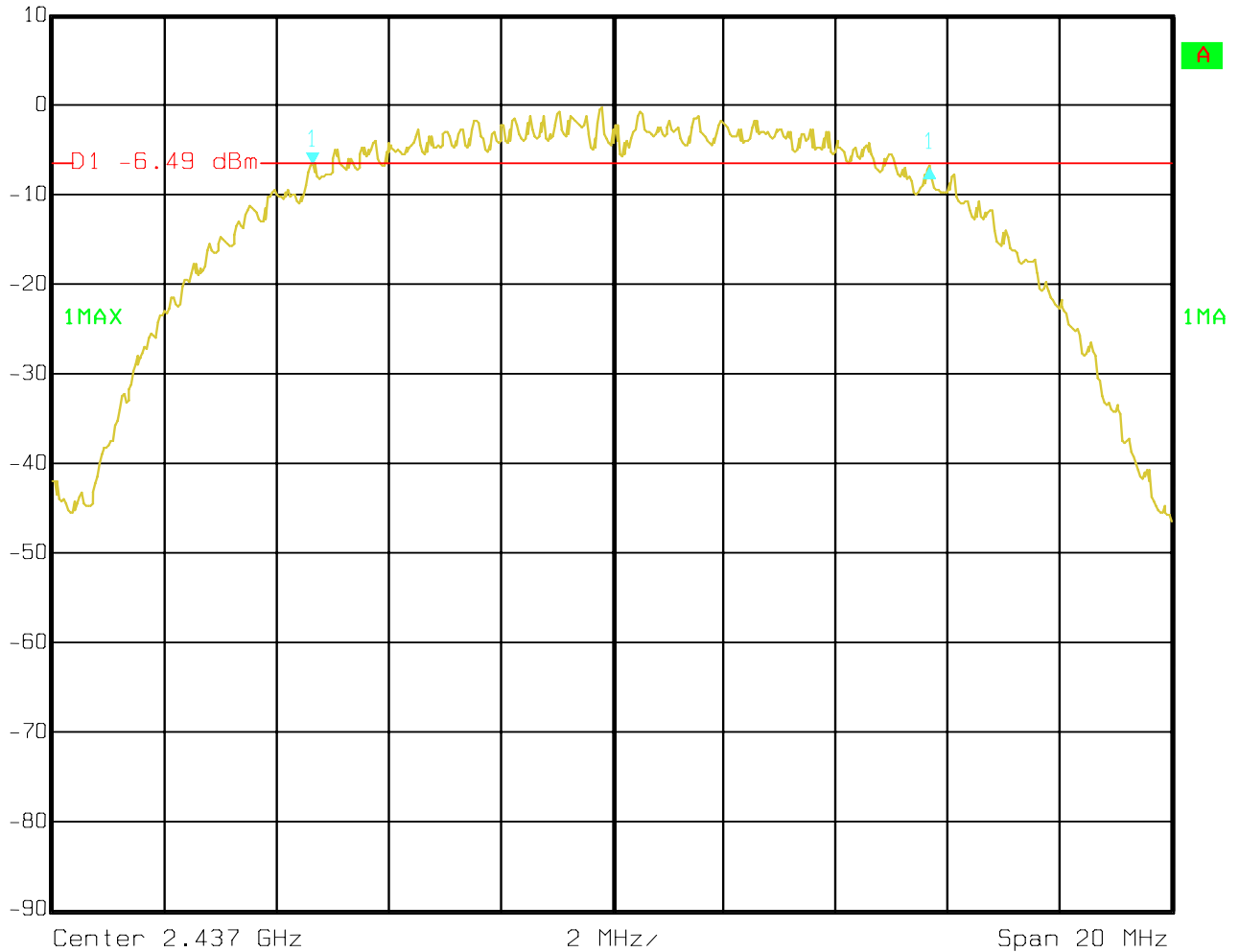


## TEST REPORT

### 2. 802.11b at 11Mbps of CH06



Ref Lvl 10 dBm  
Delta 1 [T1] -0.46 dB  
11.02204409 MHz  
RBW 100 kHz  
VBW 100 kHz  
SWT 5 ms  
RF Att 20 dB  
Unit dBm



Date: 21.SEP.2011 16:29:45

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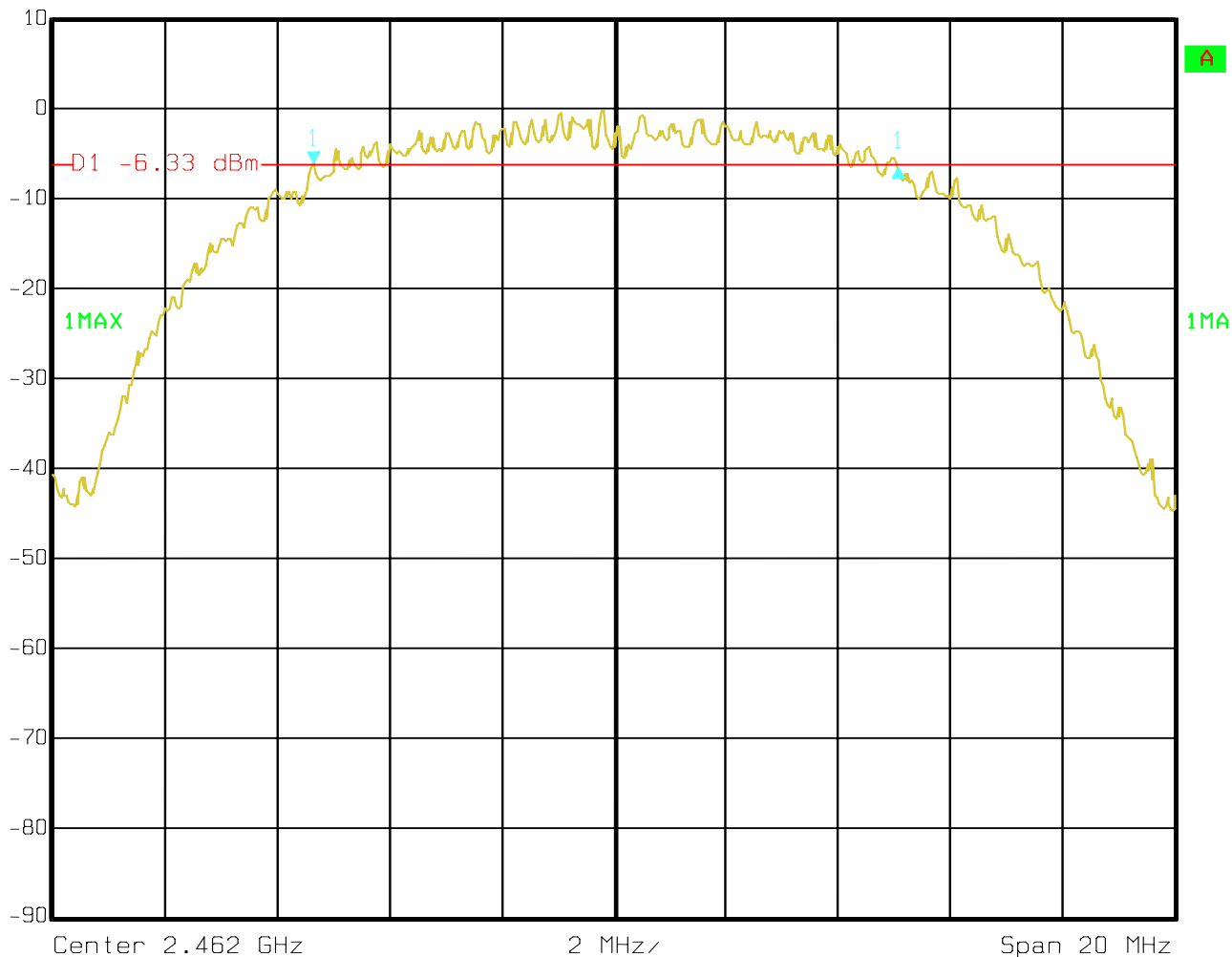


# TEST REPORT

## 3. 802.11b at 11Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	-0.23 dB	VBW	100 kHz		
	10.42084168 MHz	SWT	5 ms	Unit	dBm



Date: 21.SEP.2011 16:31:14

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EUT		nScreenBox		Model		HT nScreenBox SM01	
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		54	16.55		0.5	Pass
6	2437		54	16.55		0.5	Pass
11	2462		54	16.55		0.5	Pass

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

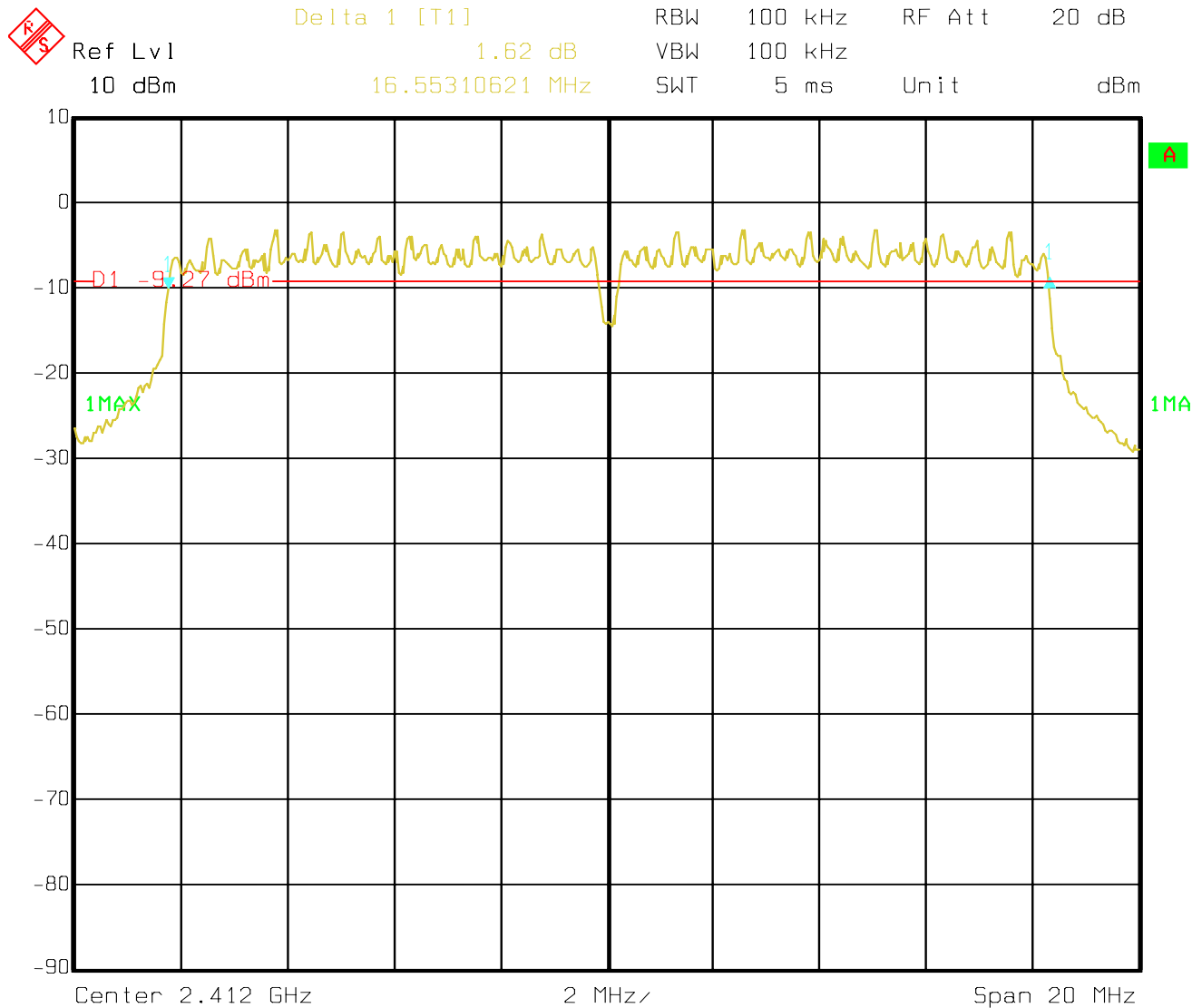
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**Test Plots:**

**1. 802.11g at 54Mbps of CH01**



Date: 21.SEP.2011 16:37:02

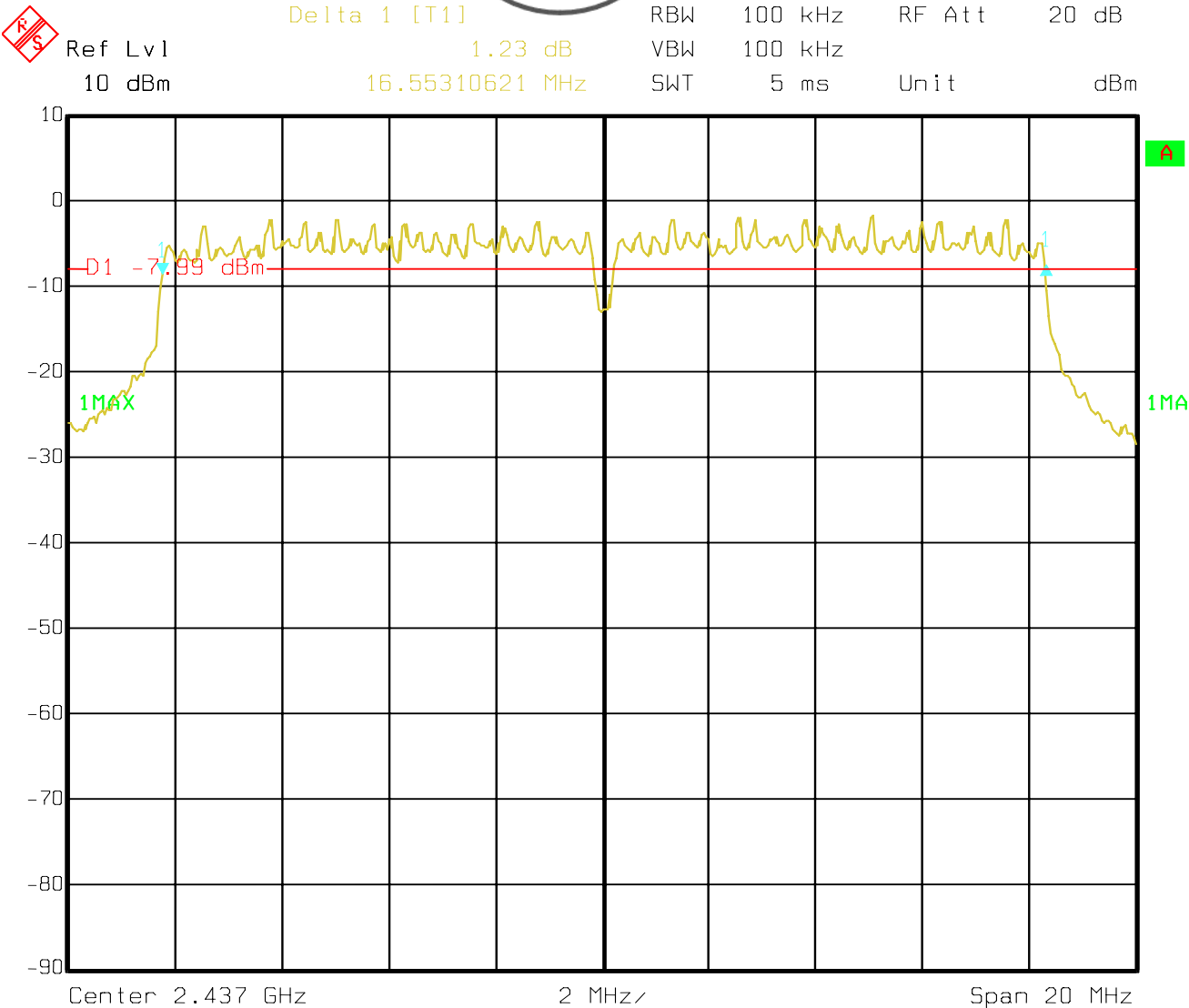
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2. 802.11g at 54Mbps of CH06



Date: 21.SEP.2011 16:35:28

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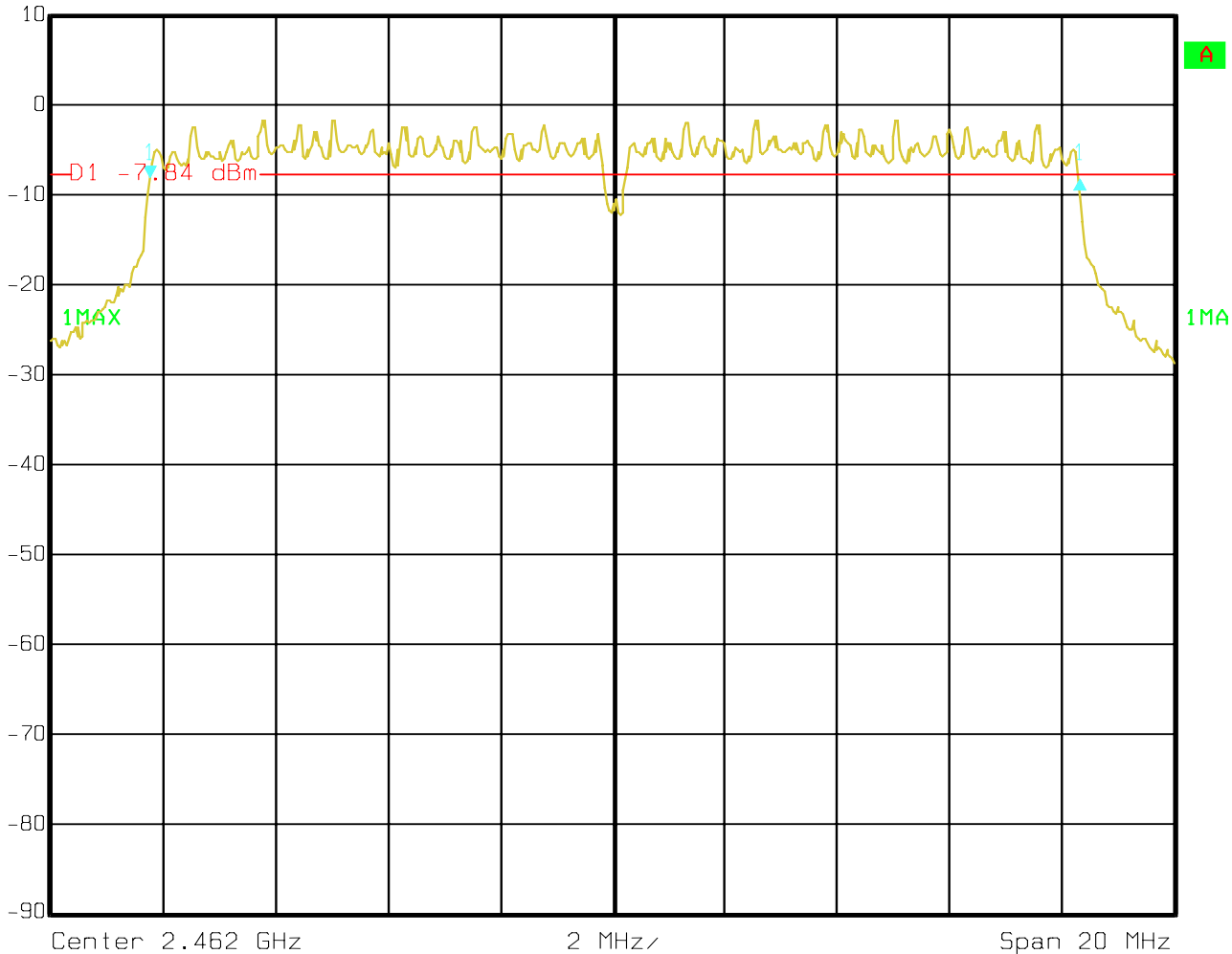


# TEST REPORT

## 3. 802.11g at 54Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	0.01 dB	VBW	100 kHz		
	16.55310621 MHz	SWT	5 ms	Unit	dBm



Date: 21.SEP.2011 16:33:42

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EUT		nScreenBox		Model		HT nScreenBox SM01	
Mode		802.11n HT20		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		65	17.72		0.5	Pass
6	2437		65	17.72		0.5	Pass
11	2462		65	17.72		0.5	Pass

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

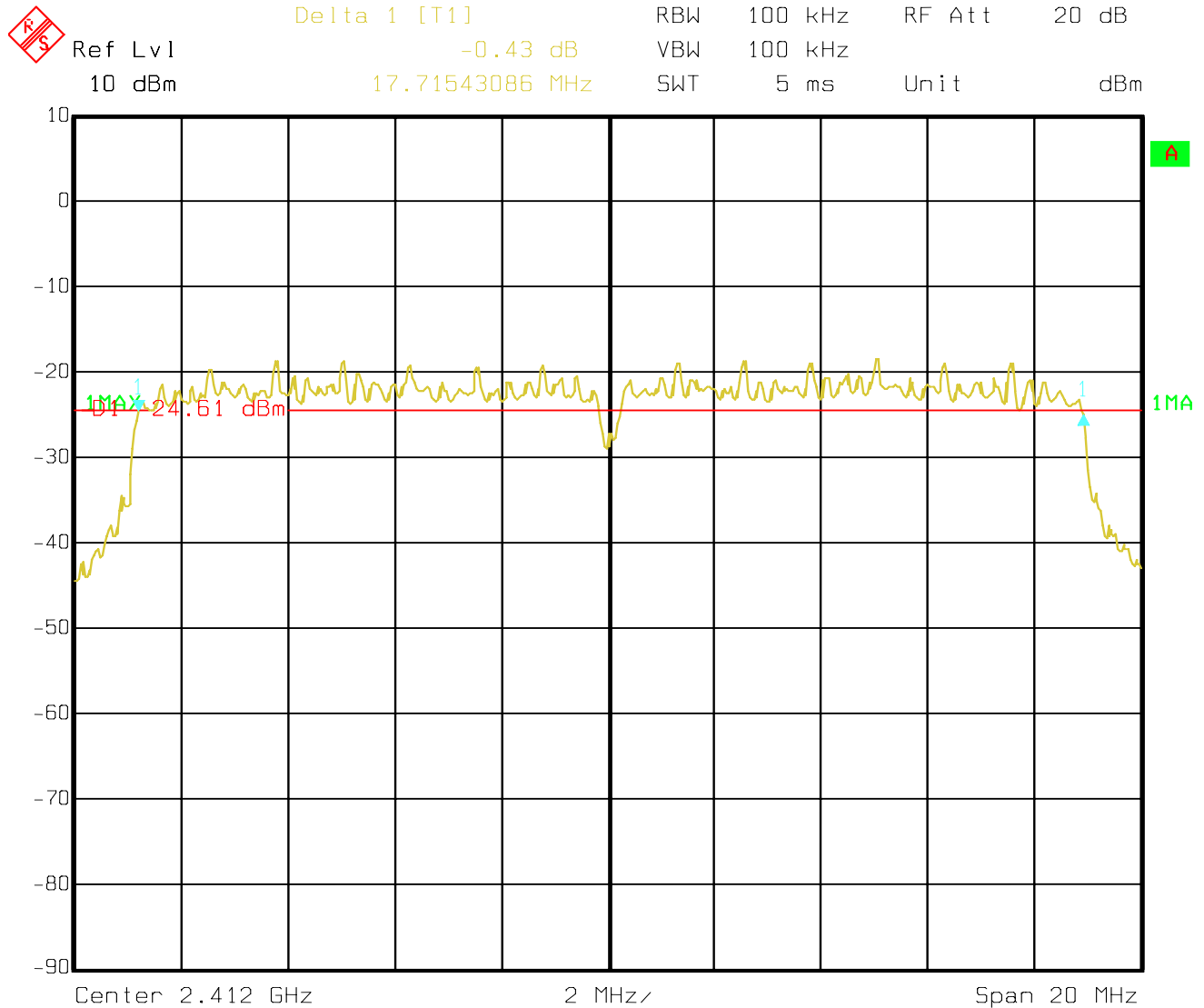
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**Test Plots:**

**1. 802.11 n HT20 at 65Mbps of CH01**



Date: 21.SEP.2011 16:40:35

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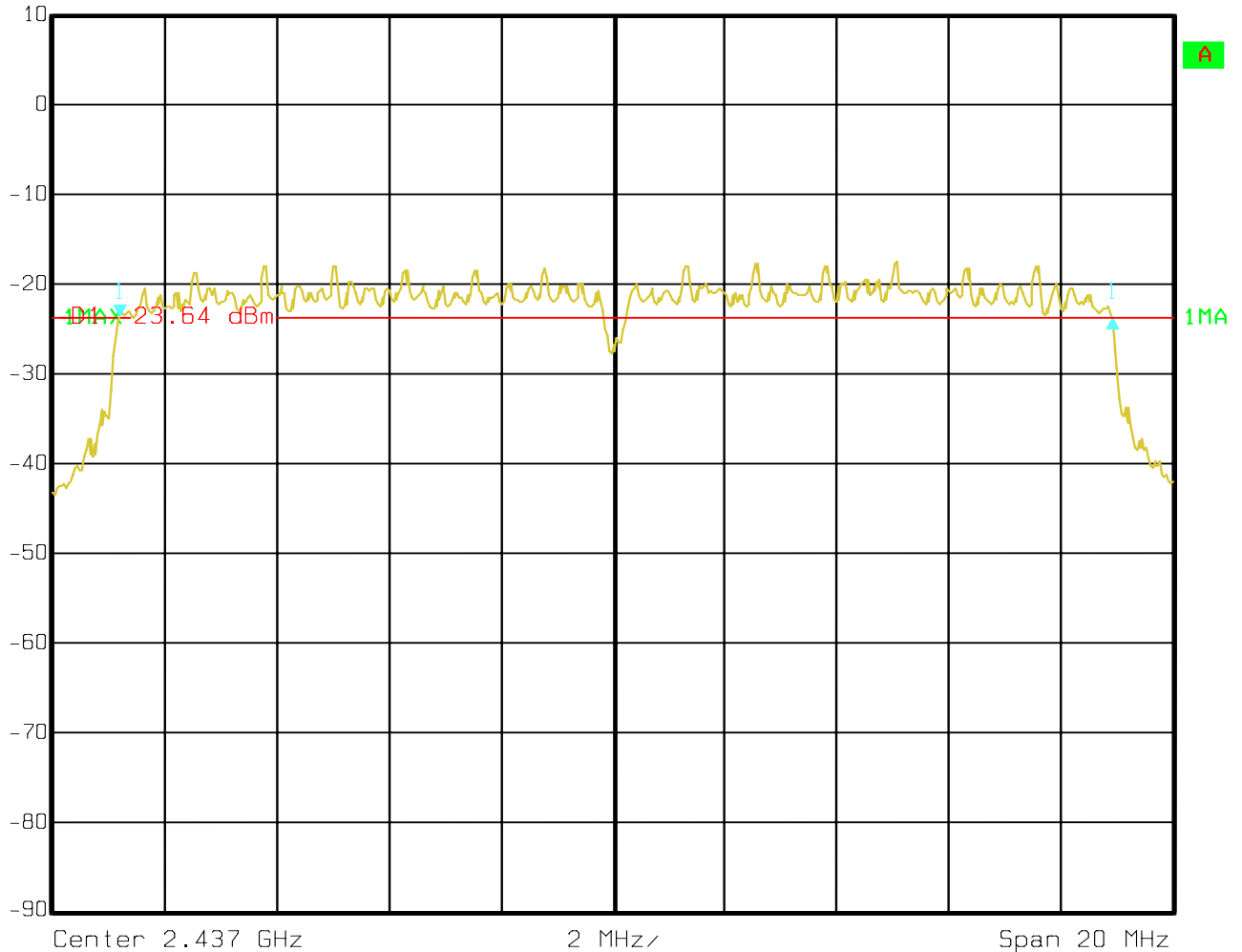




2. 802.11 n HT20 at 65Mbps of CH06



Ref Lvl 10 dBm  
Delta 1 [T1] -0.10 dB  
17.71543086 MHz  
RBW 100 kHz  
VBW 100 kHz  
SWT 5 ms  
RF Att 20 dB  
Unit dBm

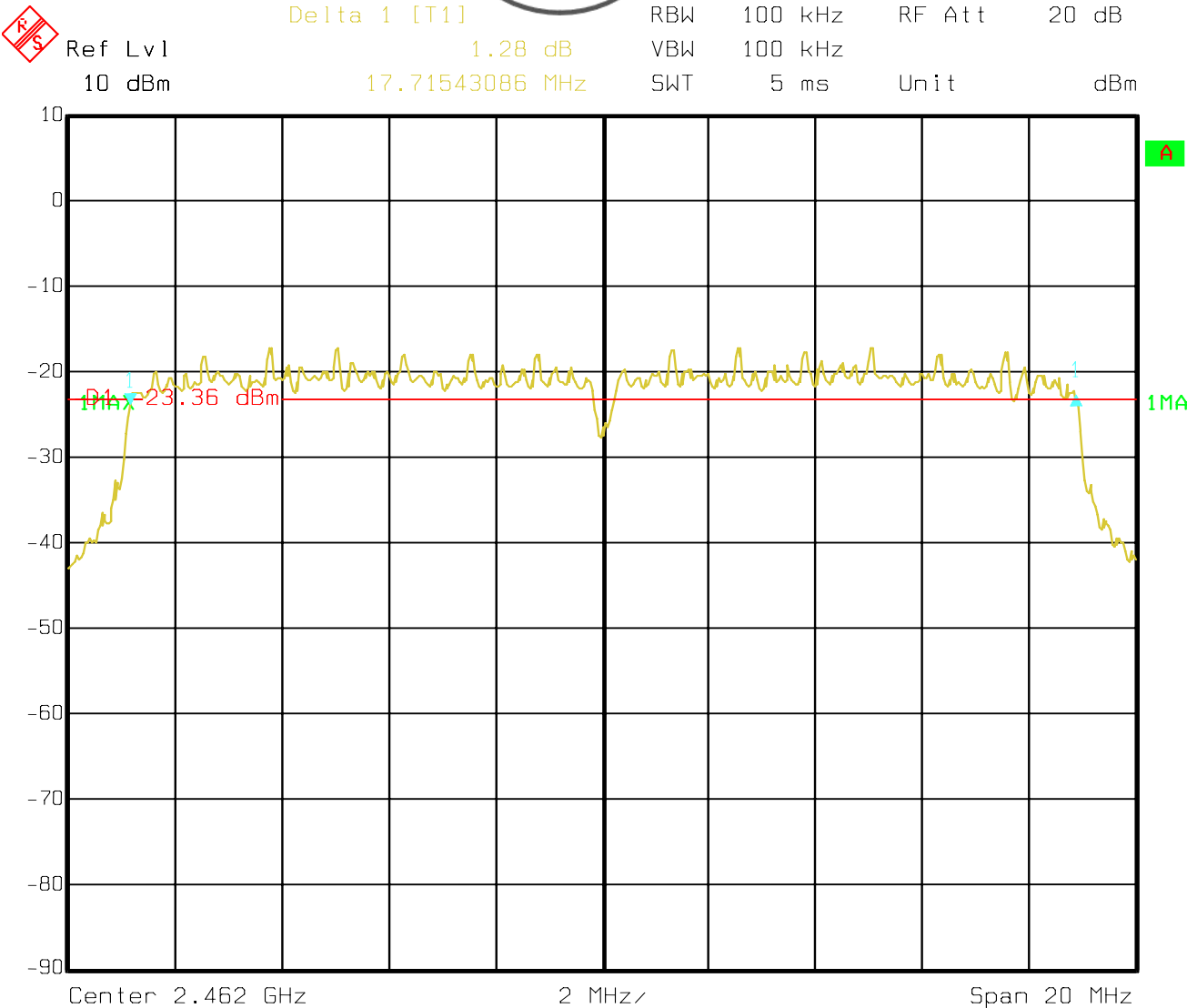


Date: 21.SEP.2011 16:42:13

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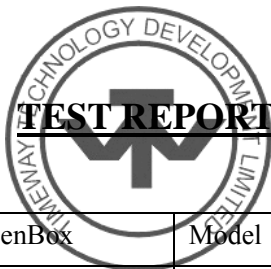


3. 802.11n HT20 at 65Mbps of CH11



Date: 21.SEP.2011 16:43:35

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EUT		nScreenBox		Model	HT nScreenBox SM01	
Mode		802.11n HT40		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	2422	135	36.55	0.5	Pass	
4	2437	135	36.47	0.5	Pass	
7	2452	135	36.60	0.5	Pass	

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

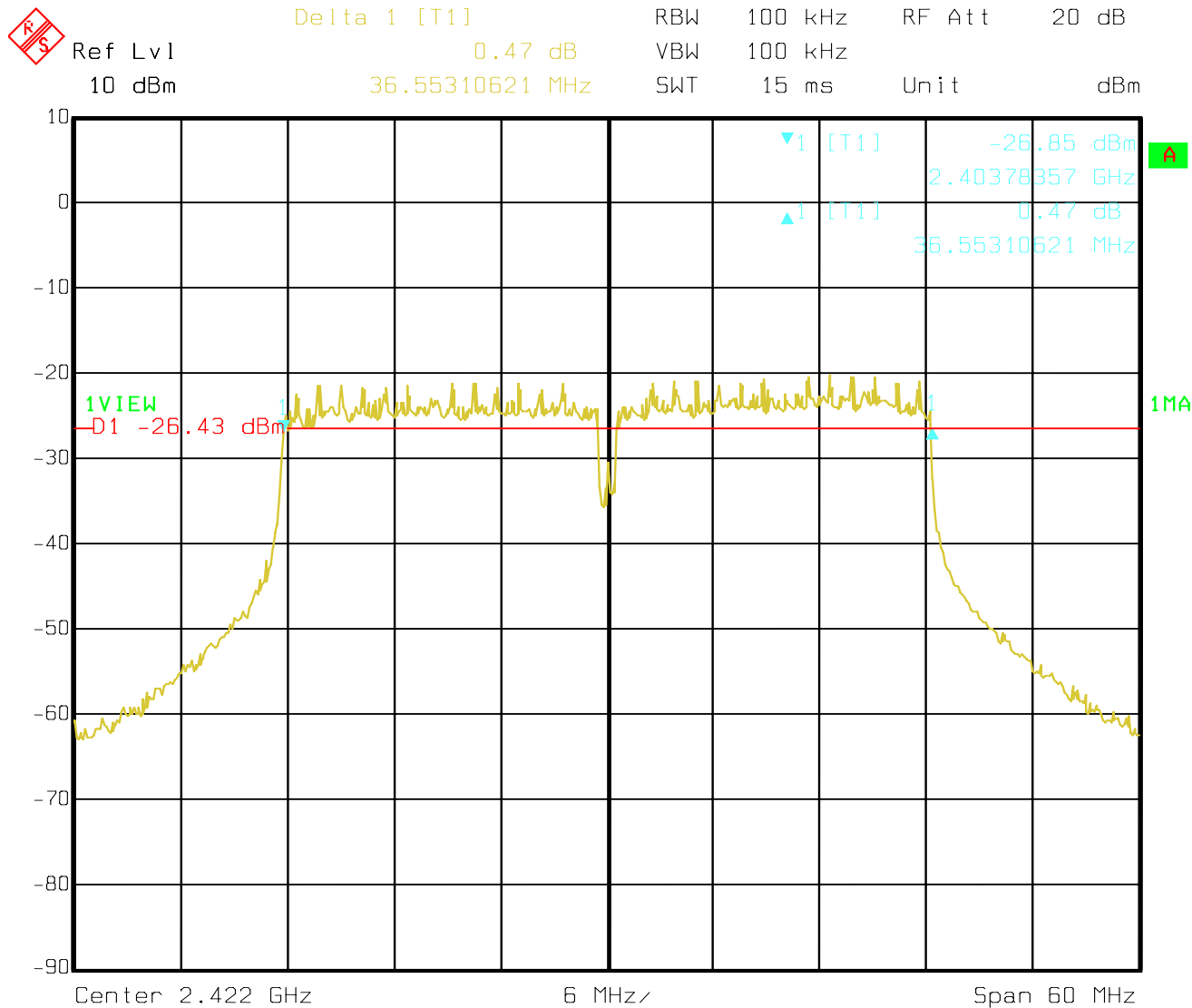
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**Test Plots:**

**1. 802.11 n HT40 at 135Mbps of CH01**



Date: 20.SEP.2011 18:07:56

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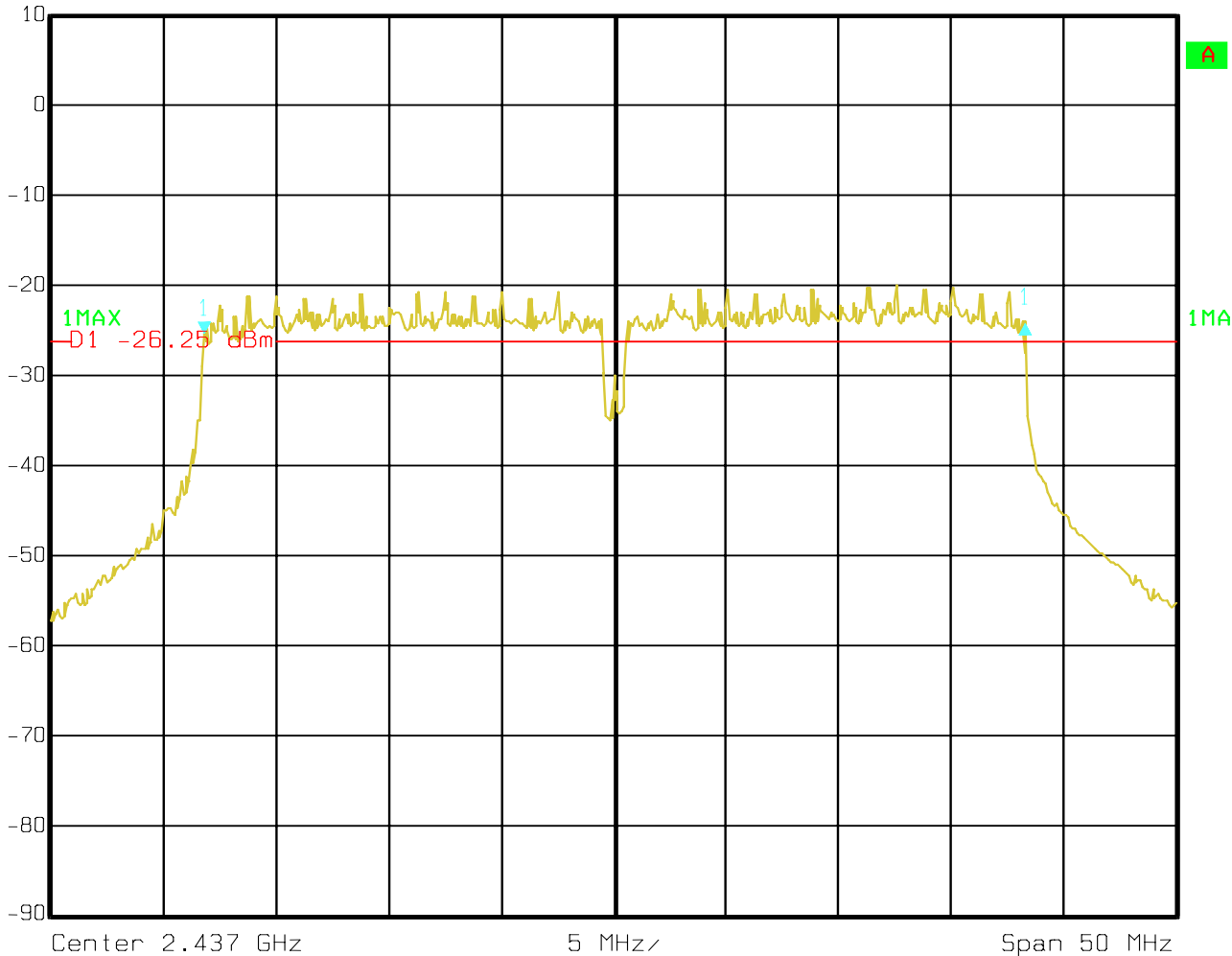
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2. 802.11 n HT40 at 135Mbps of CH04



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	1.28 dB	VBW	100 kHz		
	36.47294589 MHz	SWT	12.5 ms	Unit	dBm

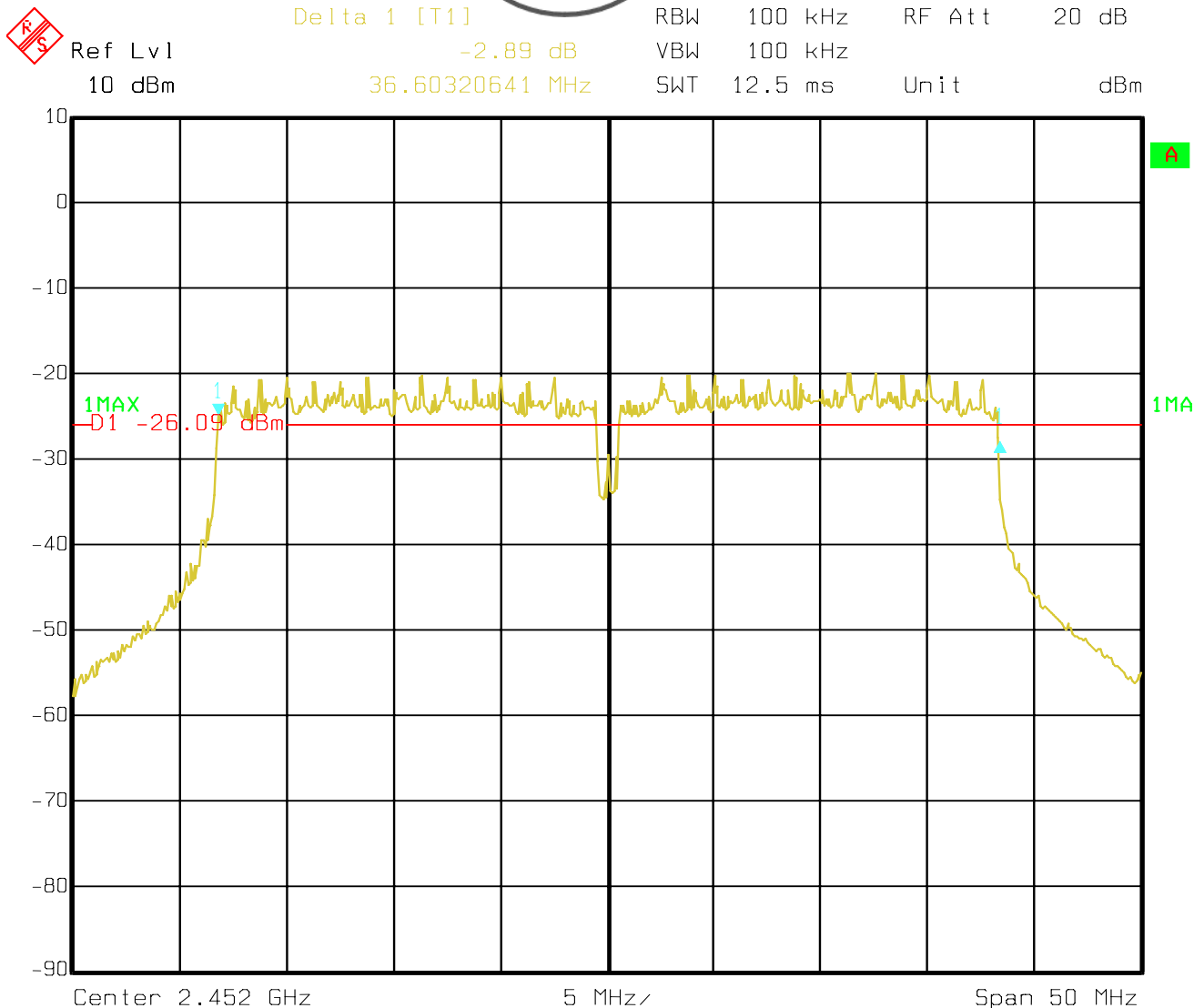


Date: 21.SEP.2011 17:03:34

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### 3. 802.11n HT40 at 135Mbps of CH07



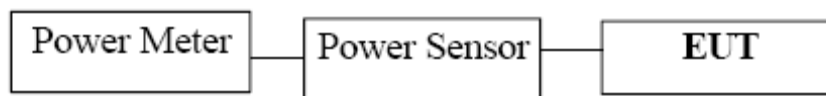
Date: 21.SEP.2011 17:05:15

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## 8.0 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.

**Note: the peak power was measured**

### 8.4 Test Results

EUT	nScreenBox	Model	HT nScreenBox SM01	
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	13.93	30	Pass
6	2437	15.17	30	Pass
11	2462	15.46	30	Pass

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

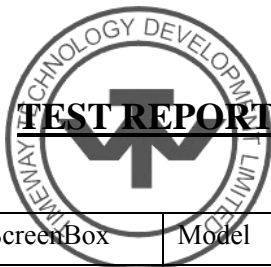
2. The result basic equation calculation as follow:

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

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EUT	nScreenBox	Model	HT nScreenBox SM01	
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	14.77	30	Pass
6	2437	13.44	30	Pass
11	2462	13.70	30	Pass

Note: At final test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

EUT	nScreenBox	Model	HT nScreenBox SM01	
Mode	802.11n HT20	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	2.11	30	Pass
6	2437	3.08	30	Pass
11	2462	3.34	30	Pass

Note: At final test to get the worst-case emission at 65Mbps for CH01, CH06 and CH11

EUT	nScreenBox	Model	HT nScreenBox SM01	
Mode	802.11 n HT40	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
3	2422	2.49	30	Pass
6	2437	3.04	30	Pass
9	2452	3.37	30	Pass

Note: 1. At final test to get the worst-case emission at 135Mbps for CH01, CH04 and CH7

2. The result basic equation calculation as follow:

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

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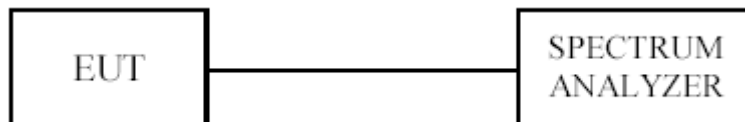
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## 9.0 Power Spectral Density Measurement

### 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=60s, **PK detector**.

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.

### 9.4 Test Result

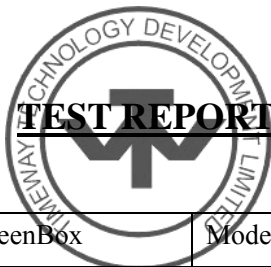
EUT	nScreenBox	Model	HT nScreenBox SM01	
Mode	802.11b	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
1	2412	-15.29	8	Pass
6	2437	-14.03	8	Pass
11	2462	-13.73	8	Pass

Note: For 802.11b mode at final test to get the worst-case emission at 11Mbps for CH11, CH06 and CH01

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EUT	nScreenBox	Model	HT nScreenBox SM01	
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	-17.64	8	Pass
6	2437	-15.15	8	Pass
11	2462	-14.98	8	Pass

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

EUT	nScreenBox	Model	HT nScreenBox SM01	
Mode	802.11n HT20	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	-32.22	8	Pass
6	2437	-33.47	8	Pass
11	2462	-30.63	8	Pass

Note: For 802.11 n HT20 mode at final test to get the worst-case emission at 65Mbps for CH11, CH06 and CH01

EUT	nScreenBox	Model	HT nScreenBox SM01	
Mode	802.11 n HT40	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	2422	-37.89	8	Pass
4	2437	-35.69	8	Pass
7	2452	-32.76	8	Pass

Note: For 802.11 n HT40 mode at final test to get the worst-case emission at 135Mbps for CH03, CH06 and CH09

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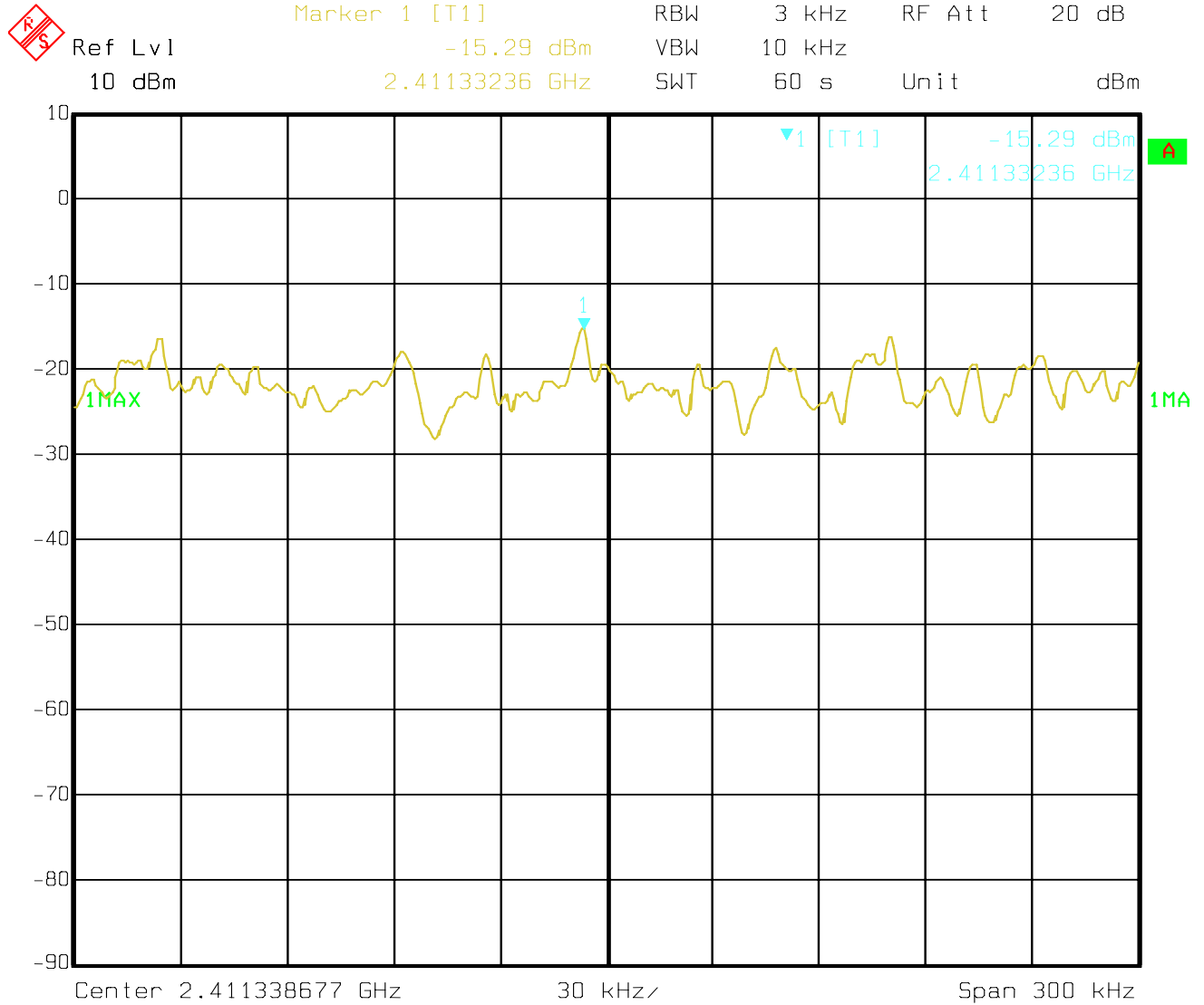
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9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01



Date:            22.SEP.2011    16:34:22

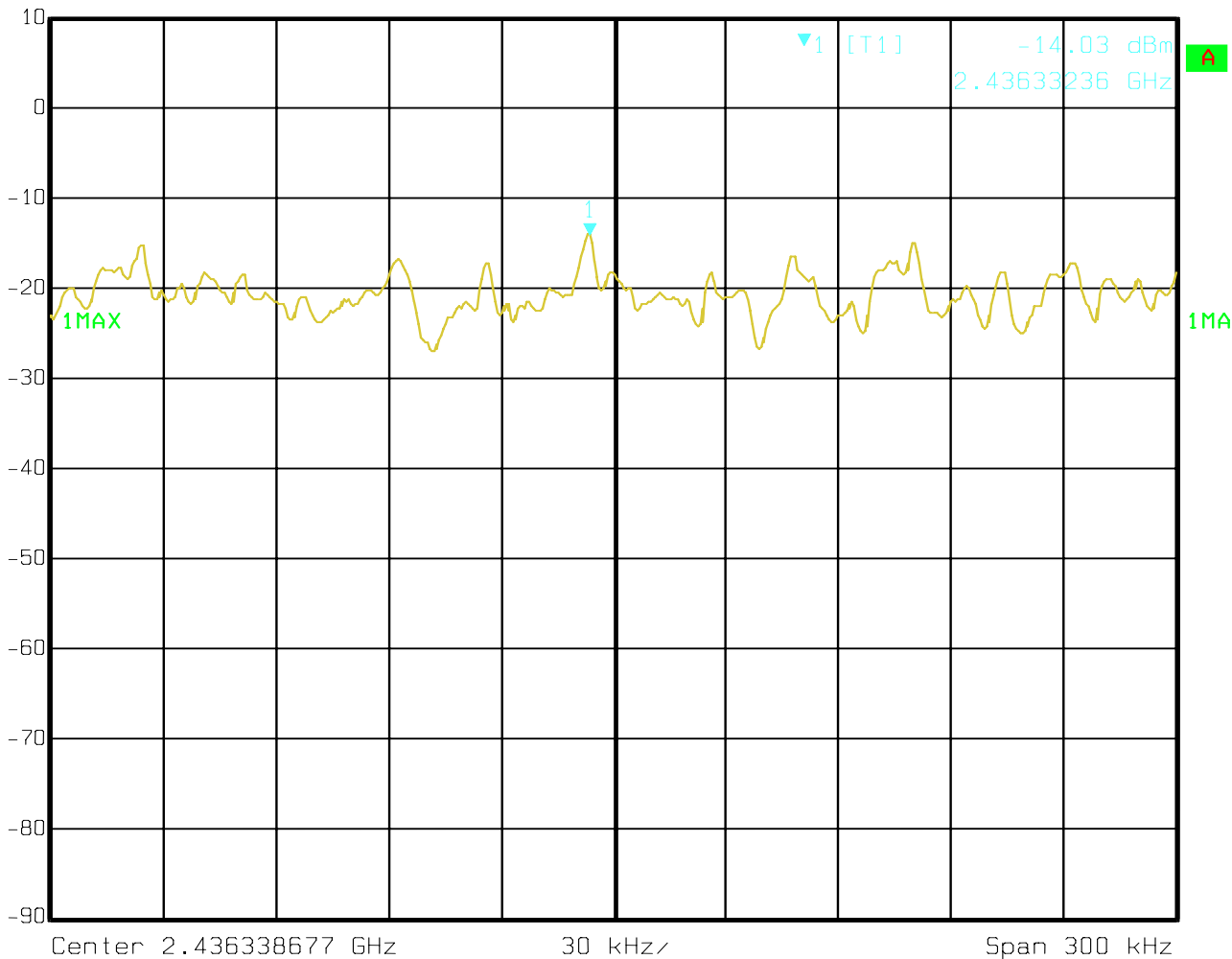
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2. 802.11b at 11Mbps at CH06



Ref Lvl 10 dBm  
Marker 1 [T1] -14.03 dBm  
2.43633236 GHz  
RBW 3 kHz  
VBW 10 kHz  
SWT 60 s  
RF Att 20 dB  
Unit dBm

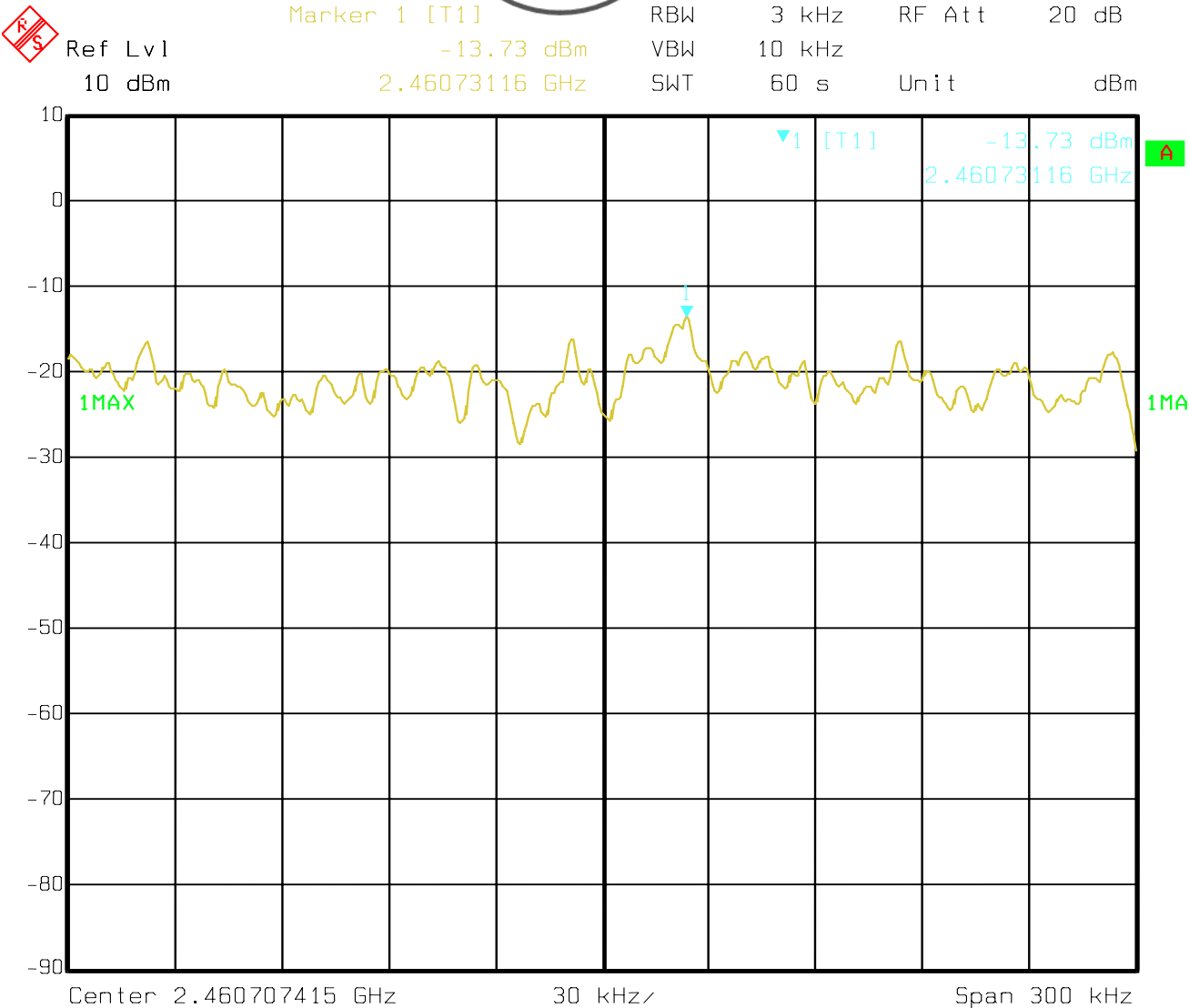


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3. 802.11b at 11Mbps of CH11

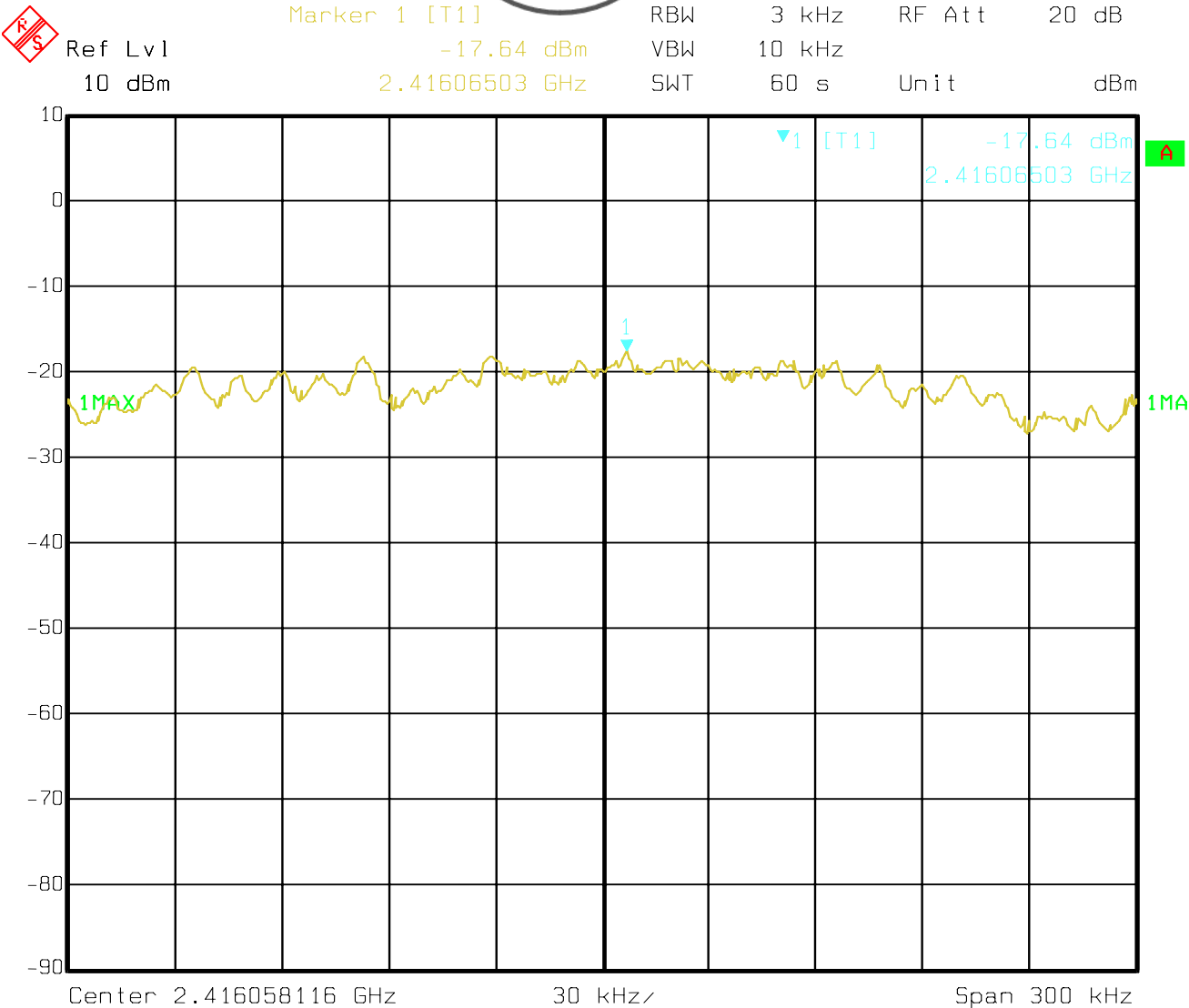


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4. 802.11g at 54Mbps of CH01

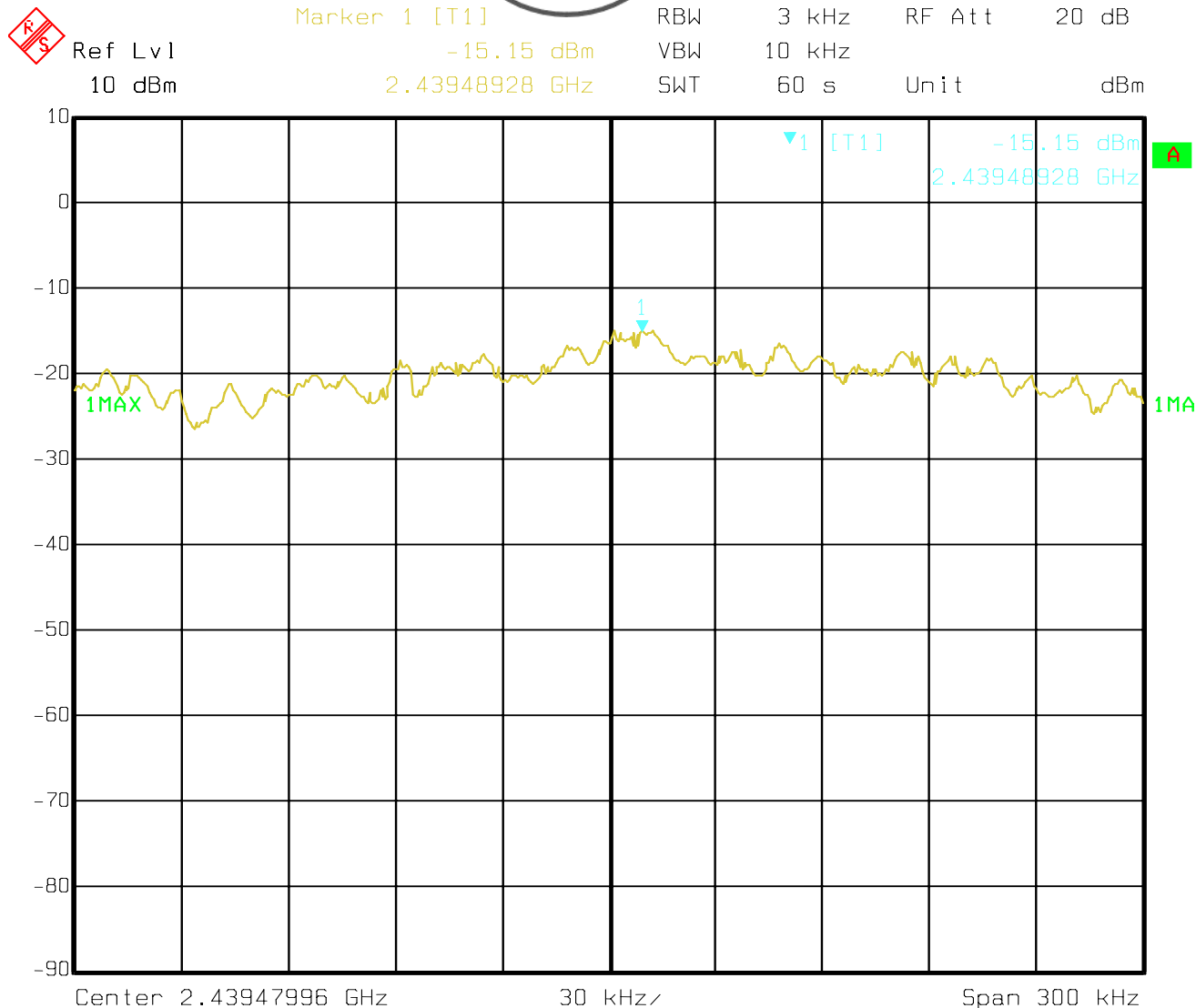


Date: 22.SEP.2011 16:50:31

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5. 802.11g at 54Mbps of CH06



Date: 22.SEP.2011 16:47:05

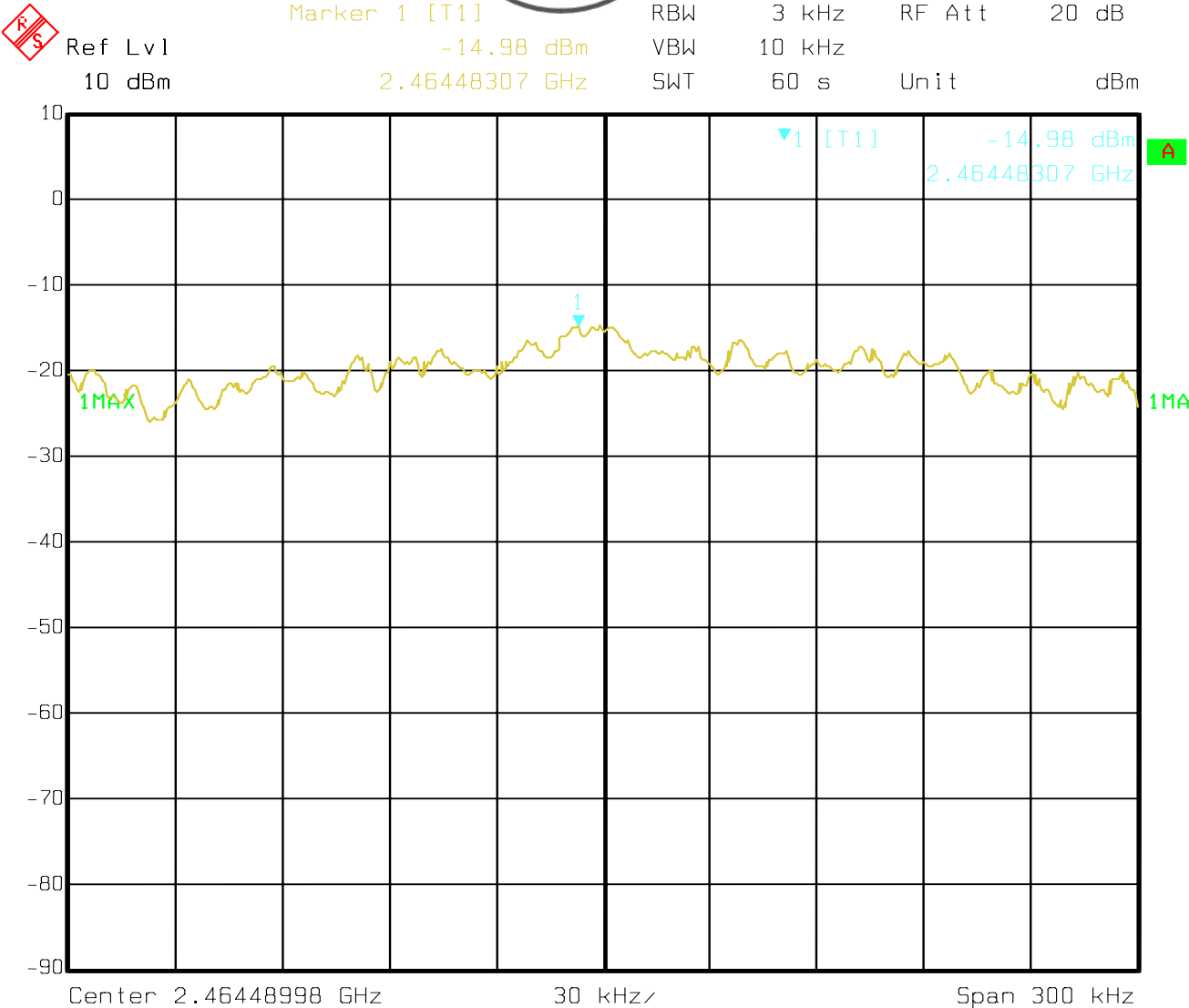
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6. 802.11g at 54Mbps of CH11



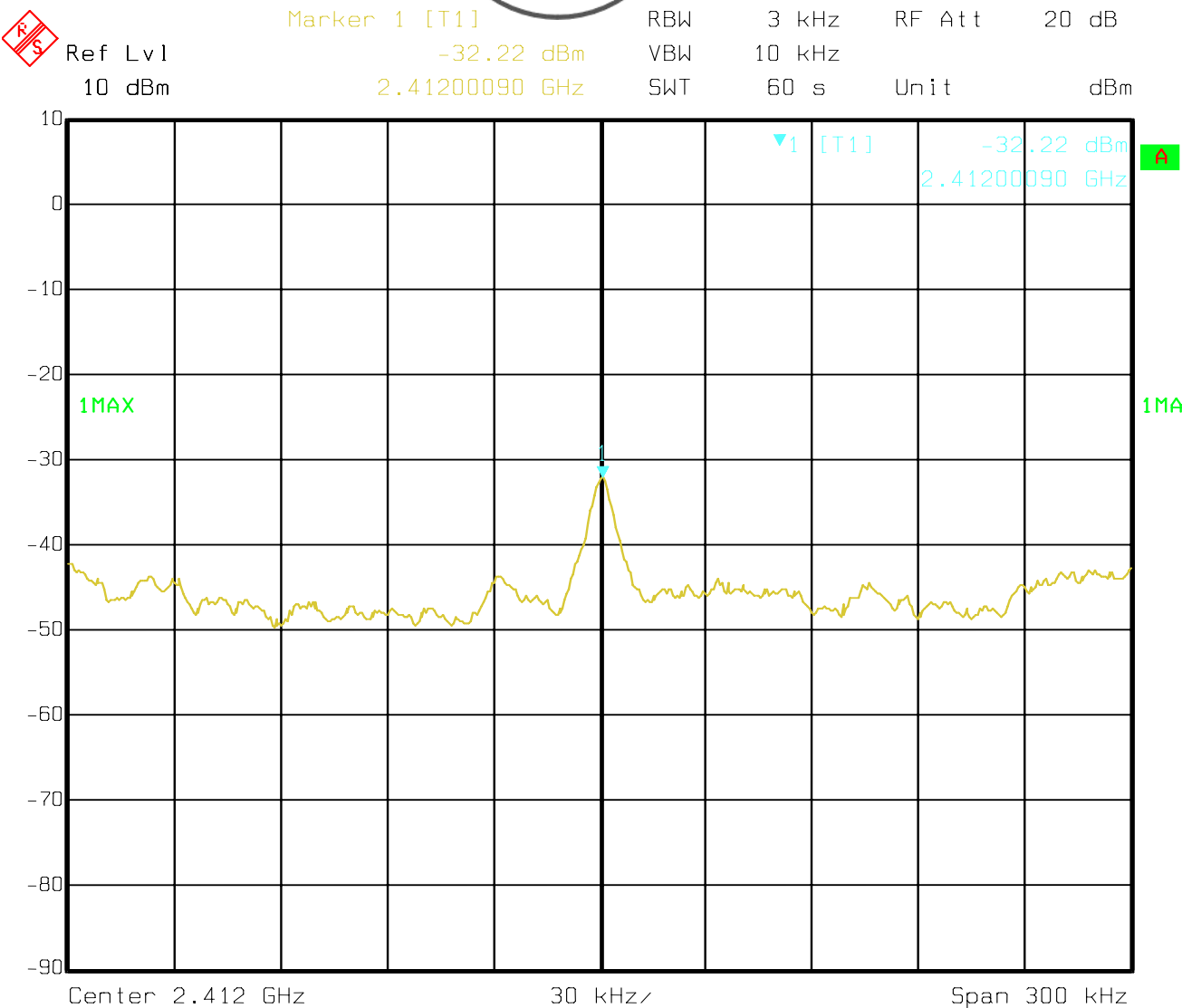
Date: 22.SEP.2011 16:44:34

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7. 802.11 n HT20 at 65Mbps of CH01



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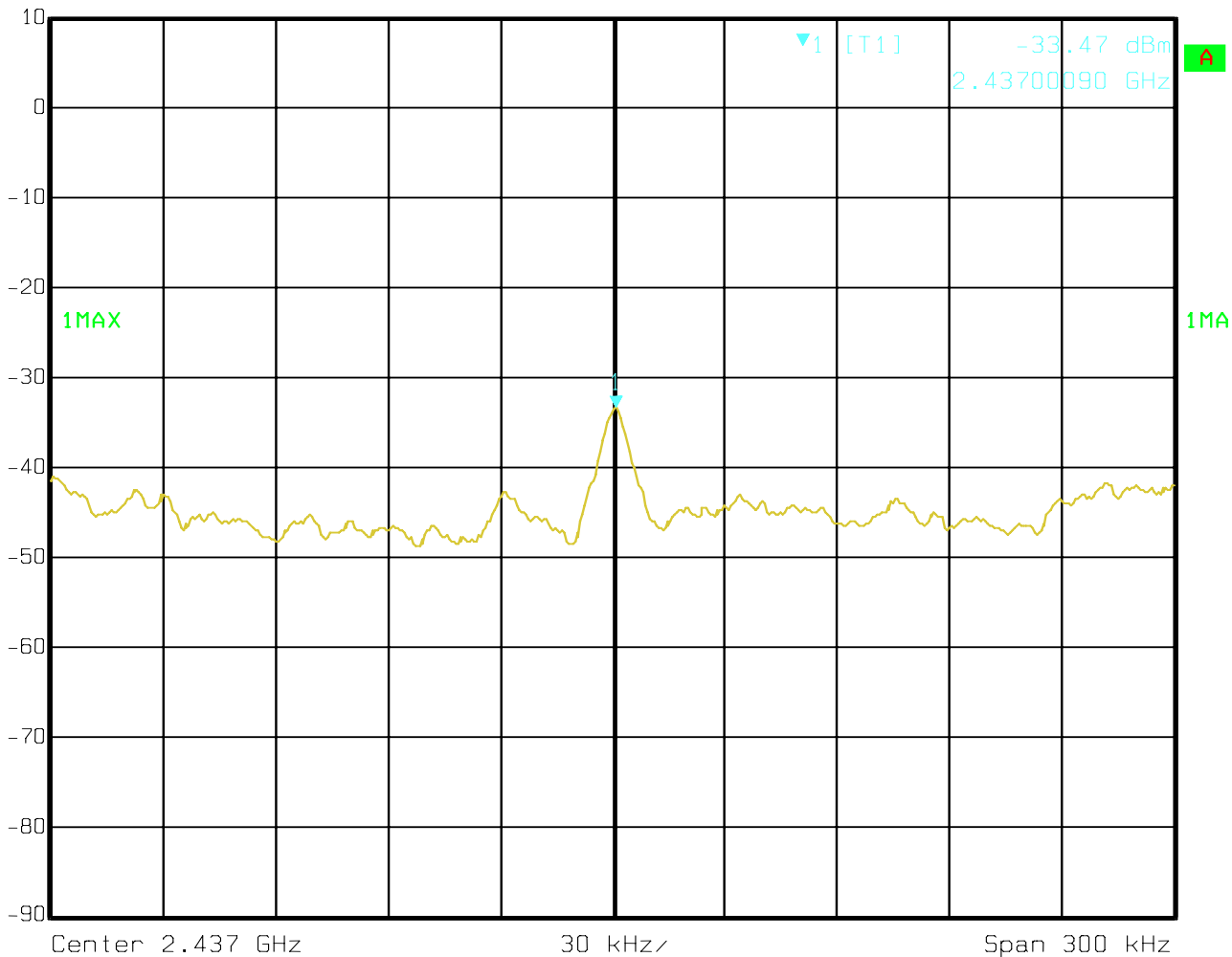


**TEST REPORT**

8. 802.11 n HT20 at 65Mbps of CH06



Ref Lvl 10 dBm  
 Marker 1 [T1] -33.47 dBm  
 2.43700090 GHz  
 RBW 3 kHz RF Att 20 dB  
 VBW 10 kHz  
 SWT 60 s Unit dBm

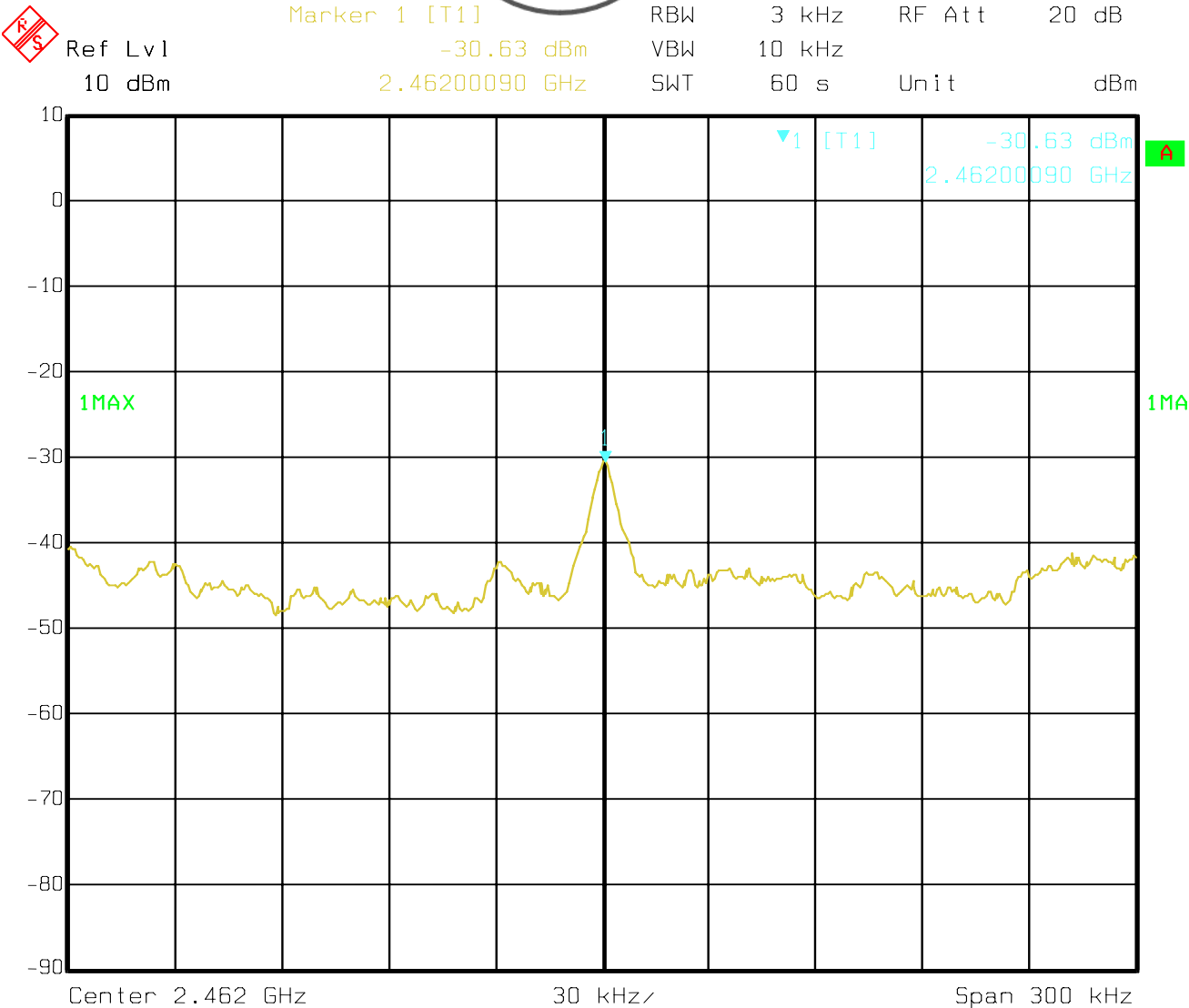


Date: 22.SEP.2011 16:13:24

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9. 802.11 n HT20 at 65Mbps of CH11



Date: 22.SEP.2011 16:15:28

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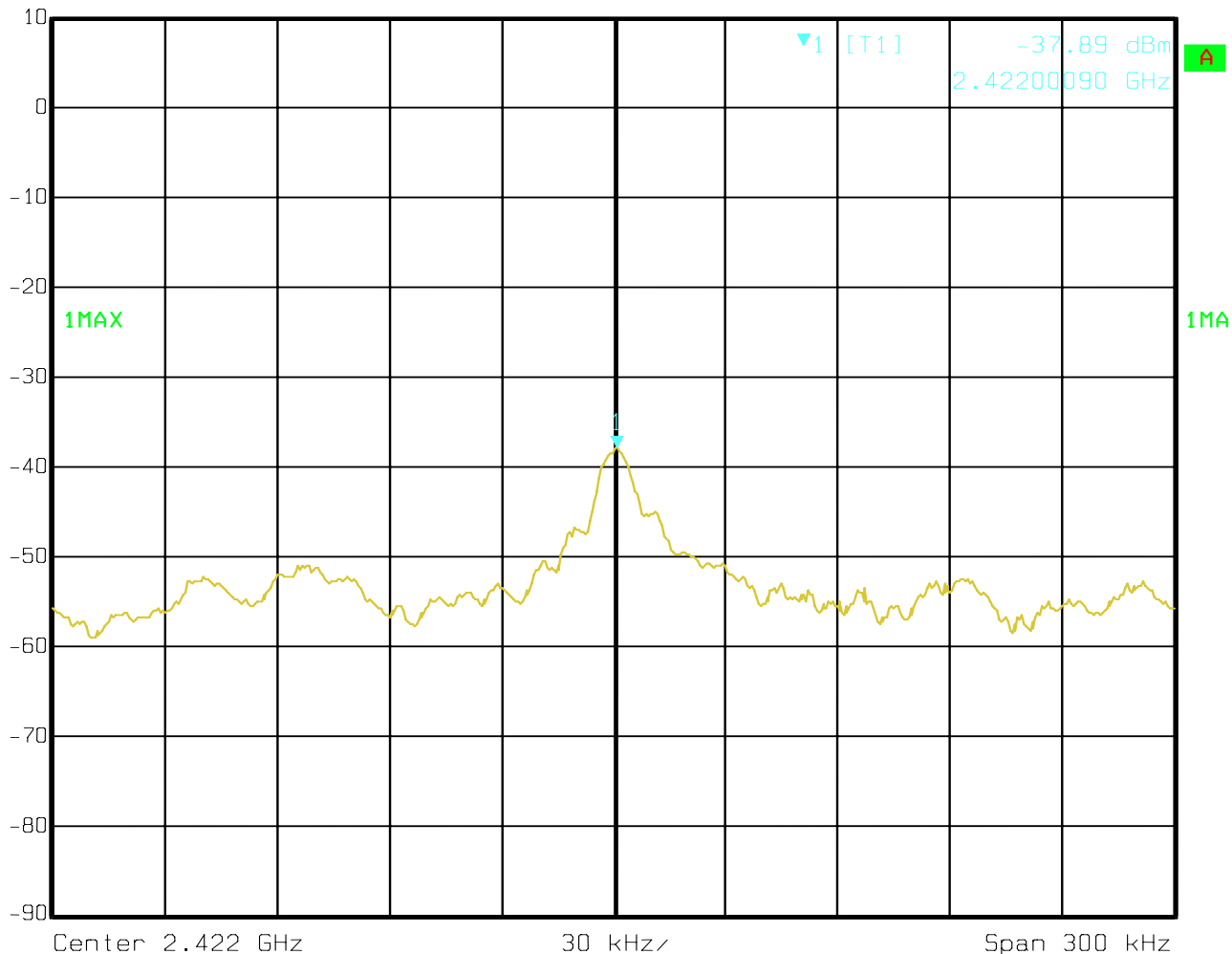


# TEST REPORT

## 10. 802.11n HT40 at 135Mbps of CH01



Ref Lvl 10 dBm  
Marker 1 [T1] -37.89 dBm  
2.42200090 GHz  
RBW 3 kHz  
VBW 10 kHz  
SWT 60 s  
RF Att 20 dB  
Unit dBm



Date: 22.SEP.2011 16:29:45

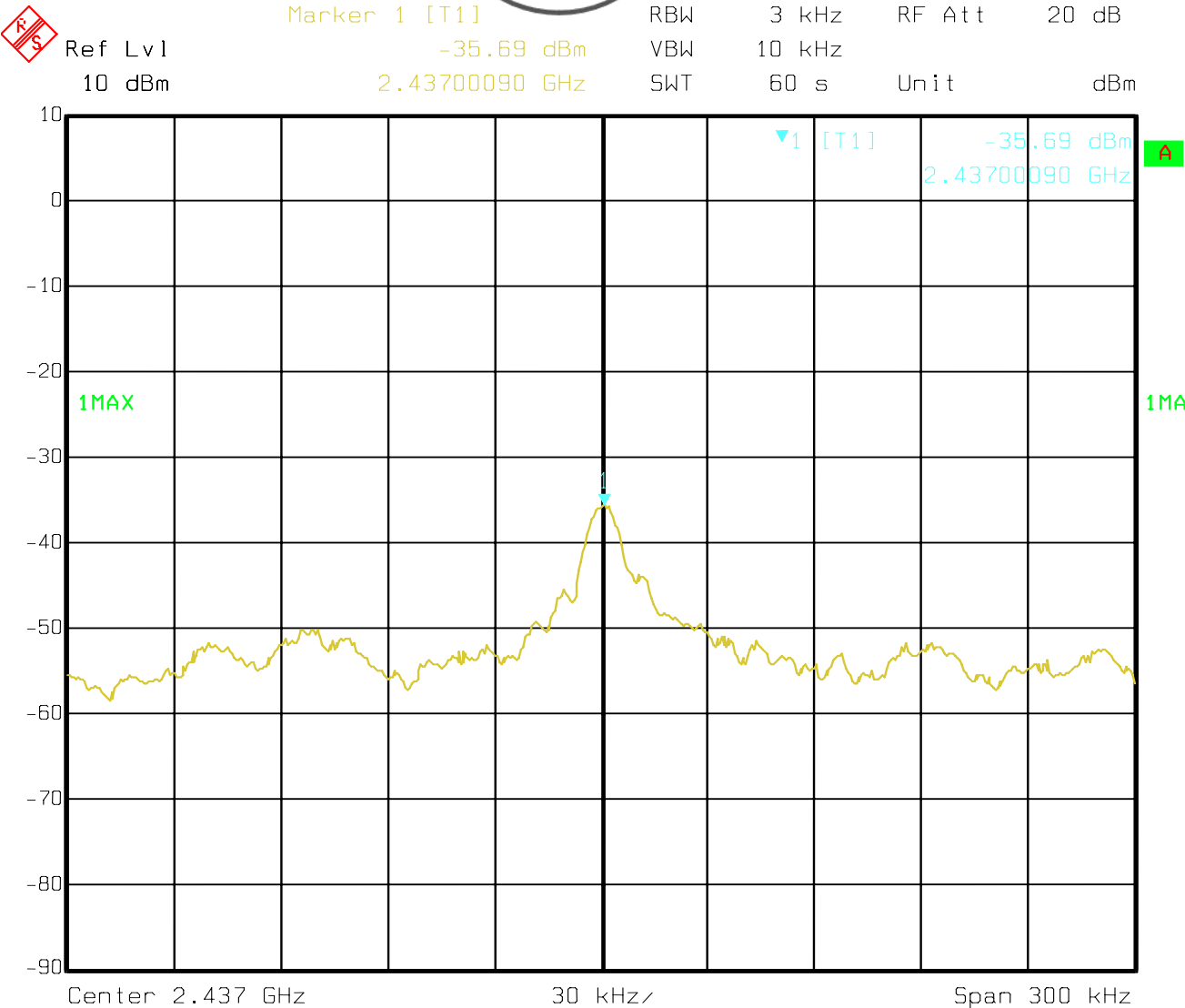
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11. 802.11 n HT40 at 135Mbps of CH04

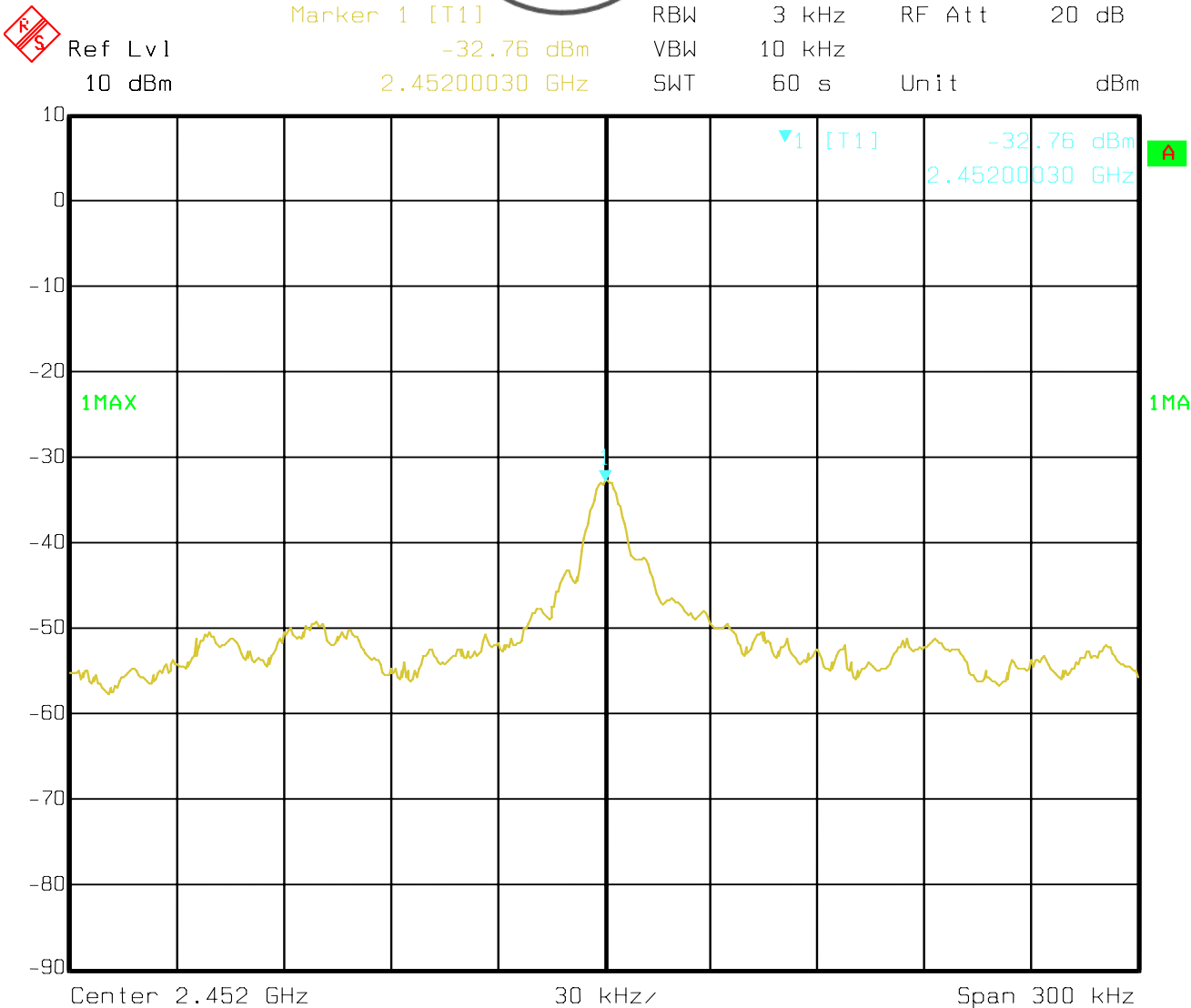


Date: 22.SEP.2011 16:26:38

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12. 802.11 n HT40 at 135Mbps of CH07



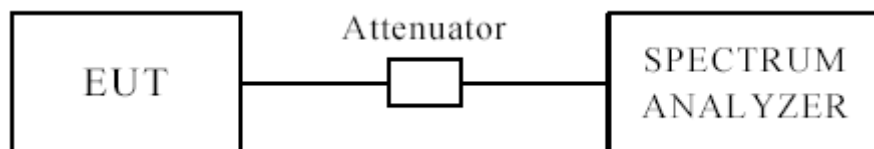
Date: 22.SEP.2011 16:36:01

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## 10.0 Out of Band Measurement

### 10.1 Test Setup for band edge



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

### 10.2 Limits of Out of Band Emissions Measurement

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

### 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.( Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

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

### 10.4 Test Result

Please see next pages

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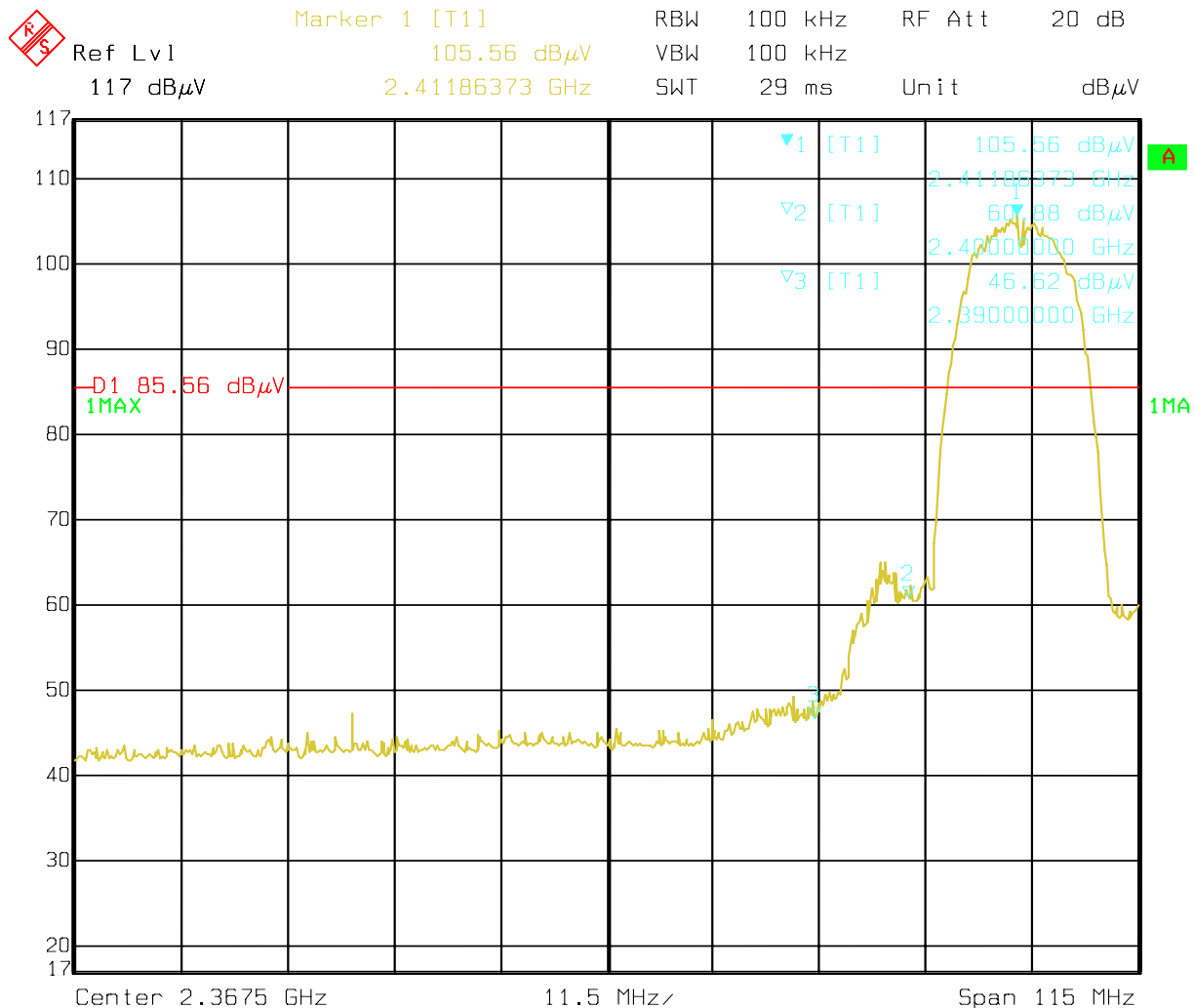
For 802.11b mode

CH01 at 11Mbps

#### 10.4 Restricted band and bandedge Measurement

Product:	nScreenBox		Model	HT nScreenBox SM01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band 2390MHz	PK (dBμV/m)	46.87(V)/41.18 (H)	Limit	74(dBμV/m)
	AV (dBμV/m)	38.66(V) /34.21(H)		54(dBμV/m)

#### Test Figure:



Date: 22.SEP.2011 19:32:37

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

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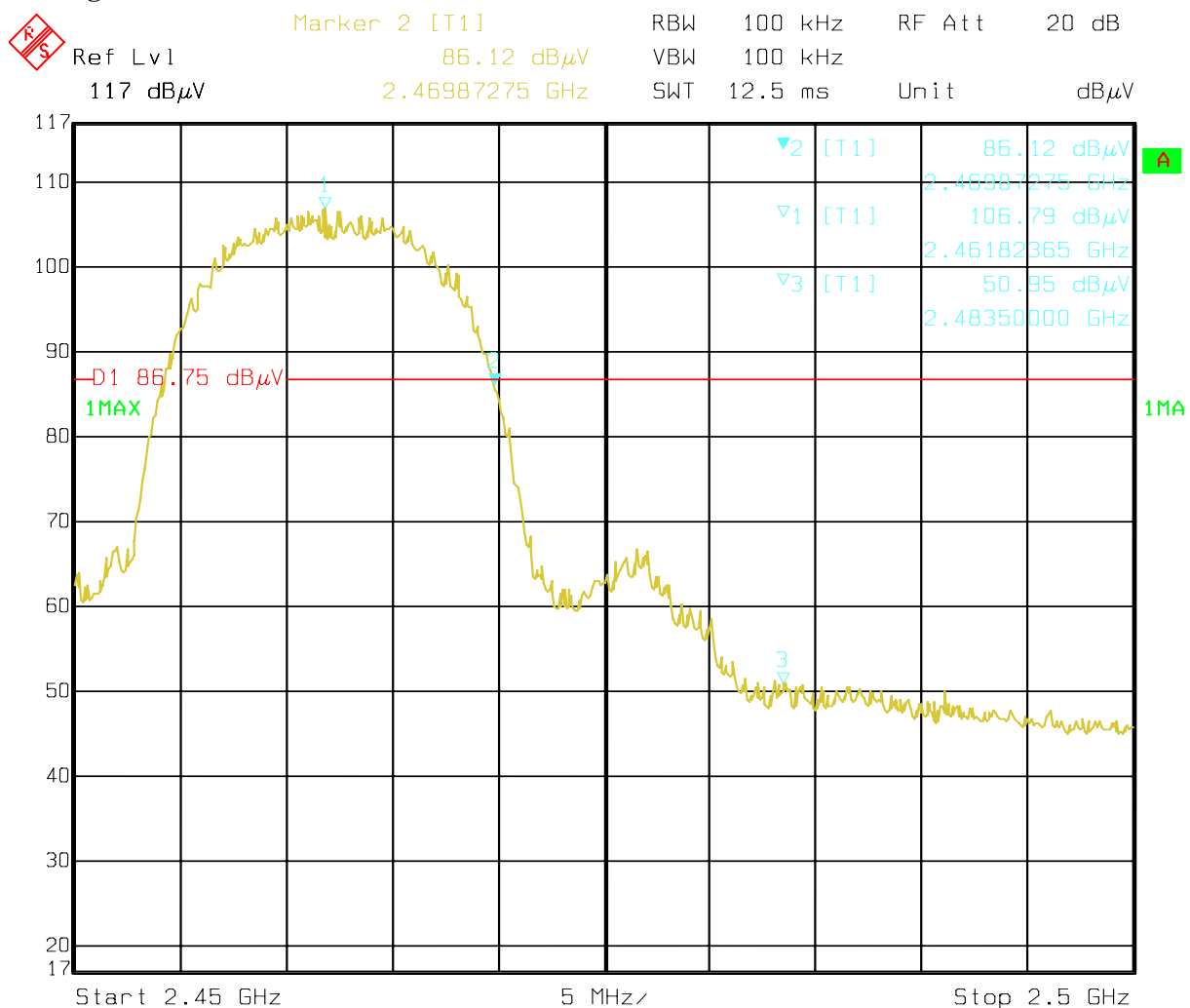


CH11 at 11Mbps

#### 10.4 Restricted band and bandedge Measurement

Product:	nScreenBox		Model	HT nScreenBox SM01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band 2483.5MHz	PK (dBμV/m)	51.56(V) /45.43(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	42.54 (V)/38.31(H)		54(dBμV/m)

#### Test Figure:



Date: 22.SEP.2011 19:22:55

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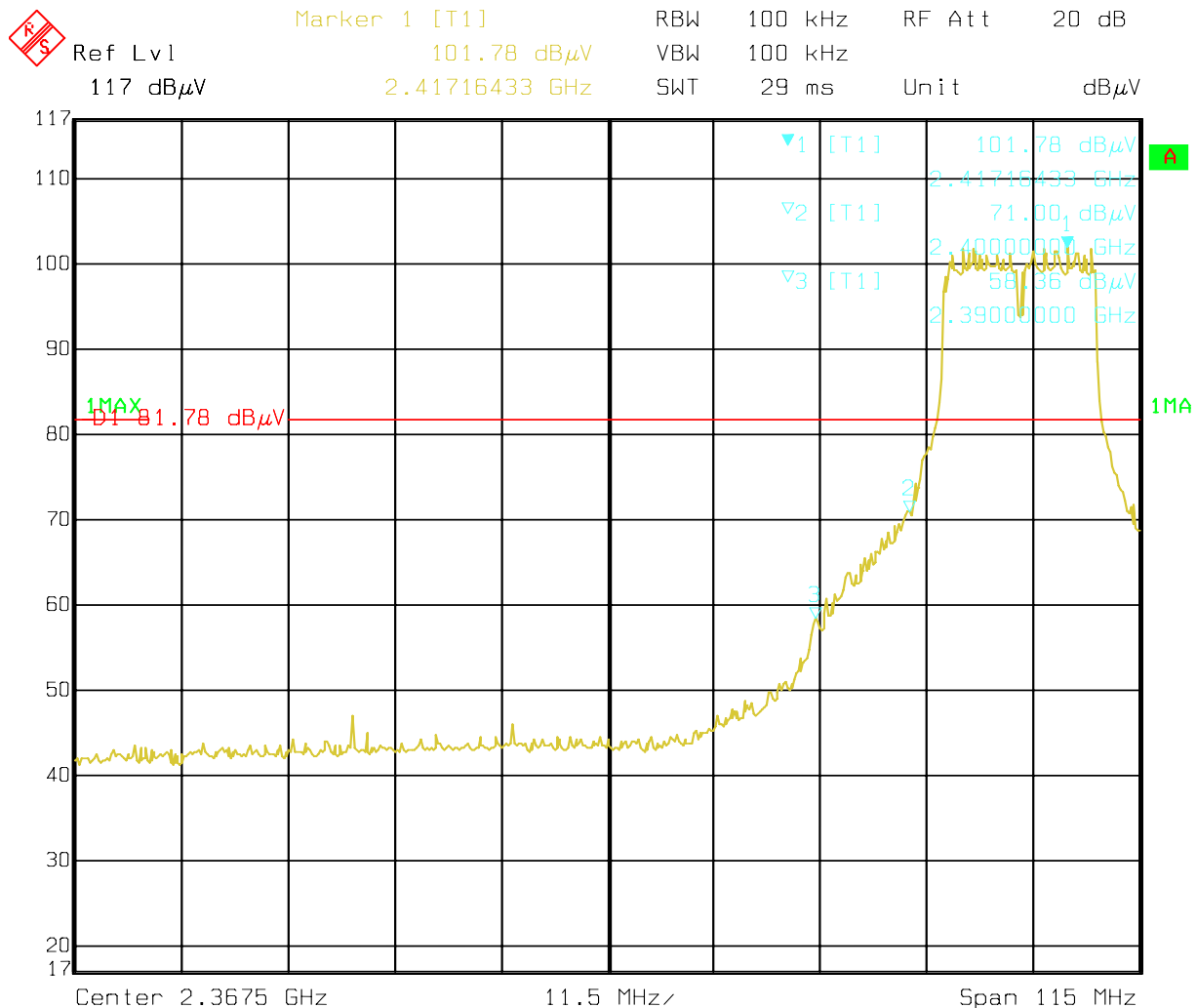
For 802.11g mode

CH01 at 54Mbps

#### 10.4 Restricted band and bandedge Measurement

Product:	nScreenBox		Model	HT nScreenBox SM01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band 2390MHz	PK (dBμV/m)	57.32(V) /54.21(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	40.03(V) /39.86(H)		54(dBμV/m)

#### Test Figure:



Date: 22.SEP.2011 19:34:24

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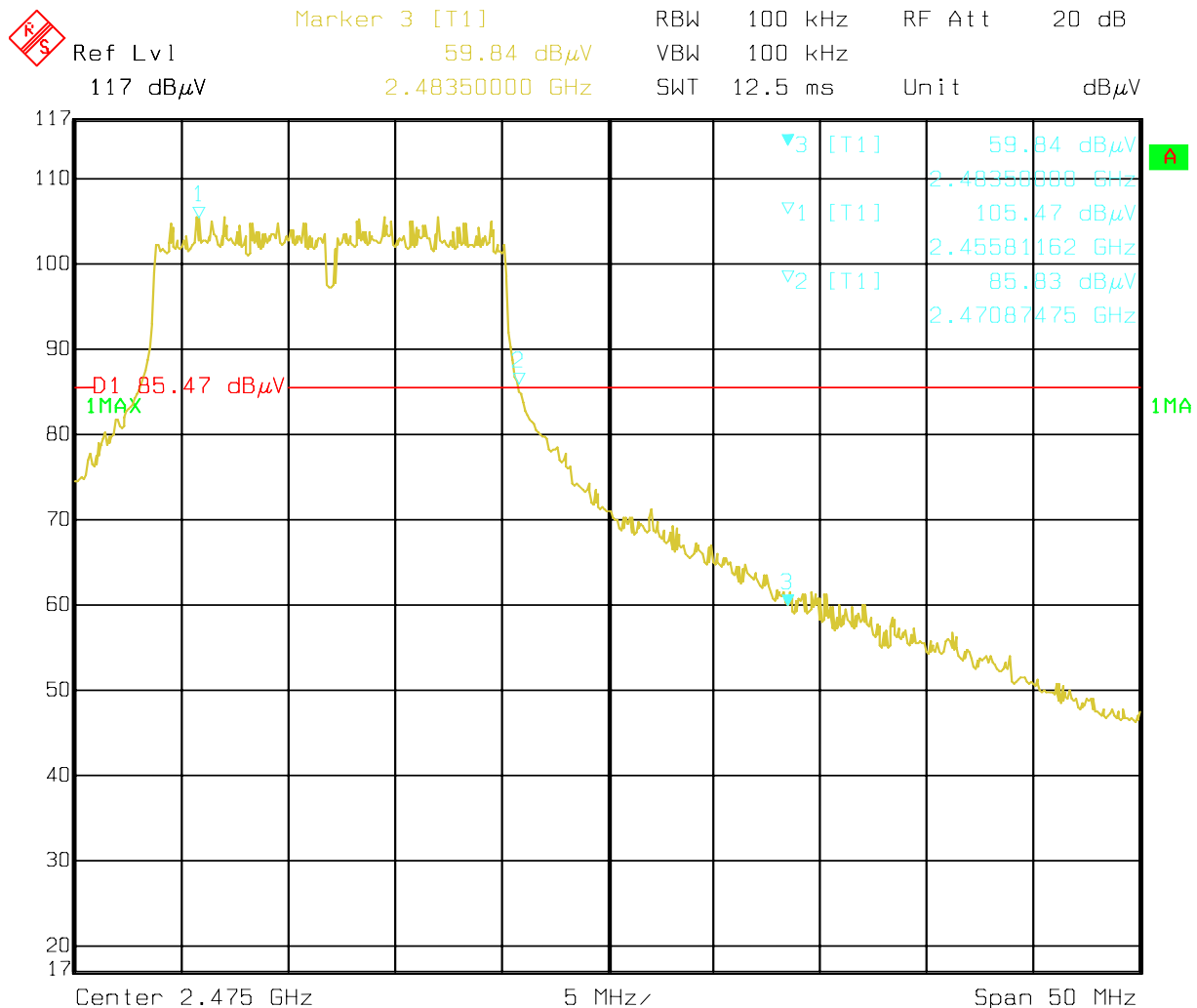


CH11 at 54Mbps

#### 10.4 Restricted band and bandedge Measurement

Product:	nScreenBox		Model	HT nScreenBox SM01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
The Max. FS in Restrict Band 2483.5MHz	PK (dBμV/m)	57.68(V)/53.38(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	43.07(V)/40.78(H)		54(dBμV/m)

#### Test Figure:



Date: 22.SEP.2011 19:21:02

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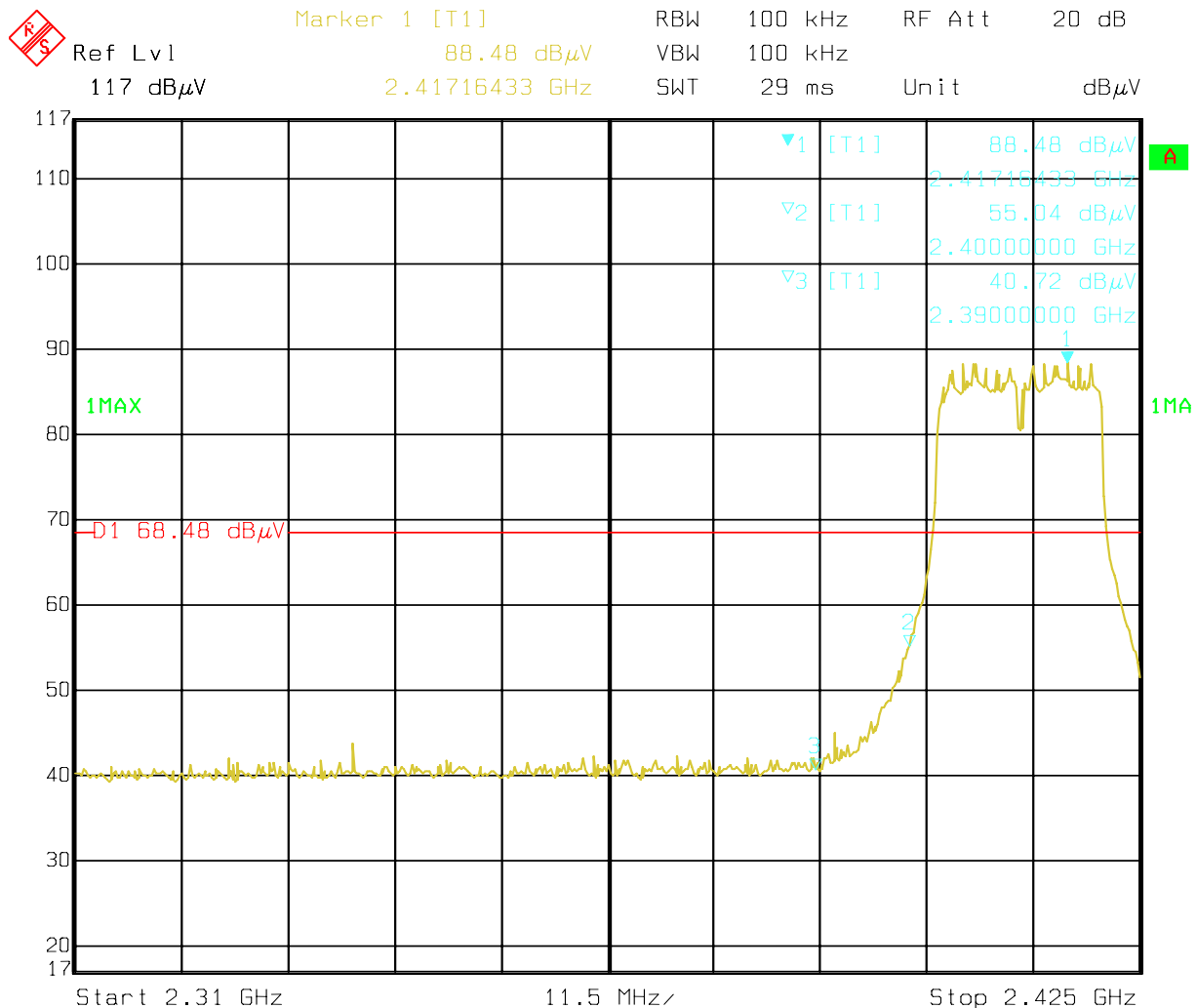
For 802.11n HT20 mode

CH01 at 65Mbps

#### 10.4 Restricted band and bandedge Measurement

Product:	nScreenBox		Model	HT nScreenBox SM01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band 2390MHz	PK (dBμV/m)	43.86(V) /38.21(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	31.01(V) /30.17(H)		54(dBμV/m)

#### Test Figure:



Date: 22.SEP.2011 19:31:30

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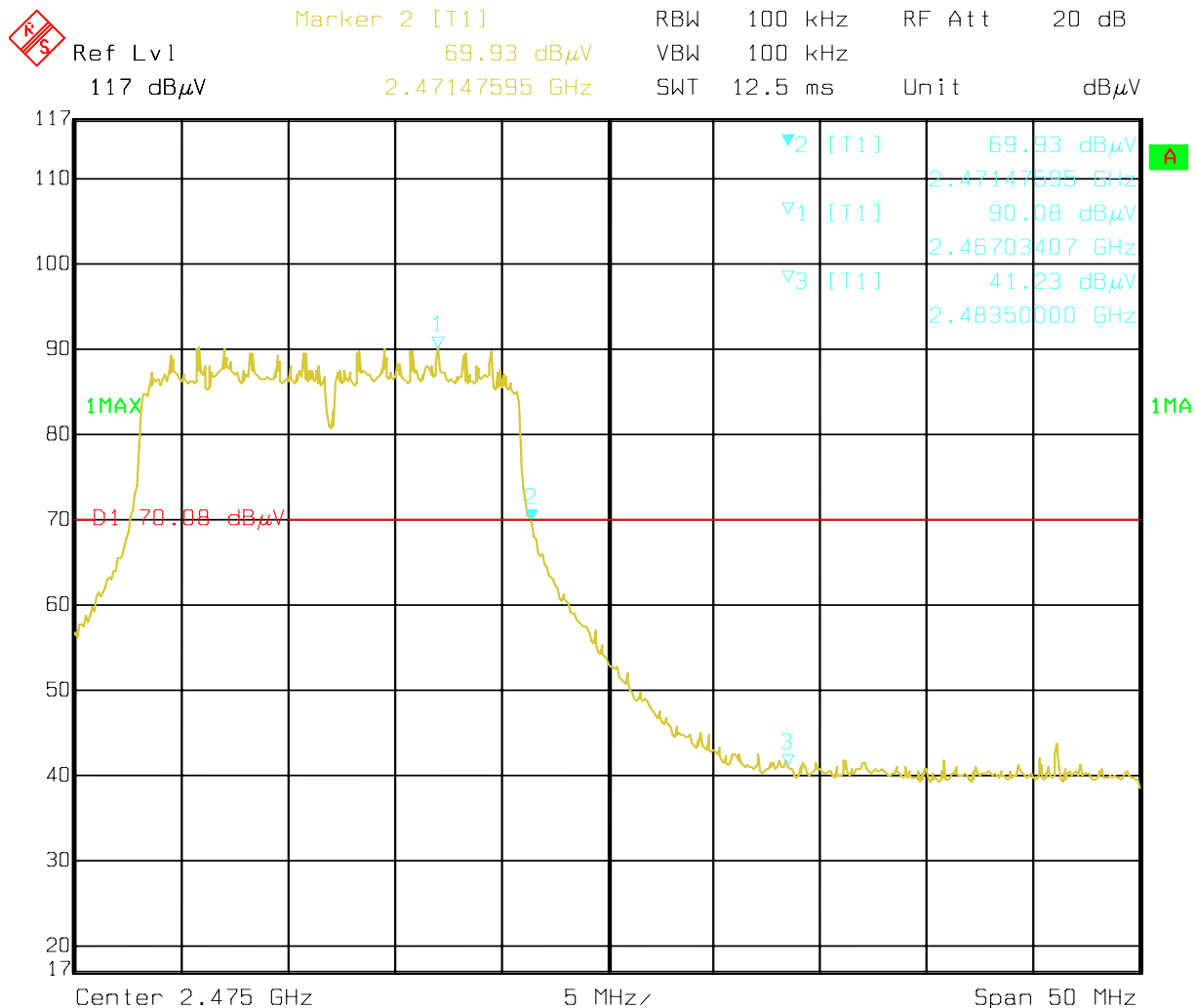


CH11 at 65Mbps

#### 10.4 Restricted band and band edge Measurement

Product:	nScreenBox		Model	HT nScreenBox SM01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
The Max. FS in Restrict Band 2483.5MHz	PK (dBμV/m)	41.56(V)/35.38(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	31.04(V)/30.24(H)		54(dBμV/m)

#### Test Figure:



Date: 22.SEP.2011 19:24:29

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

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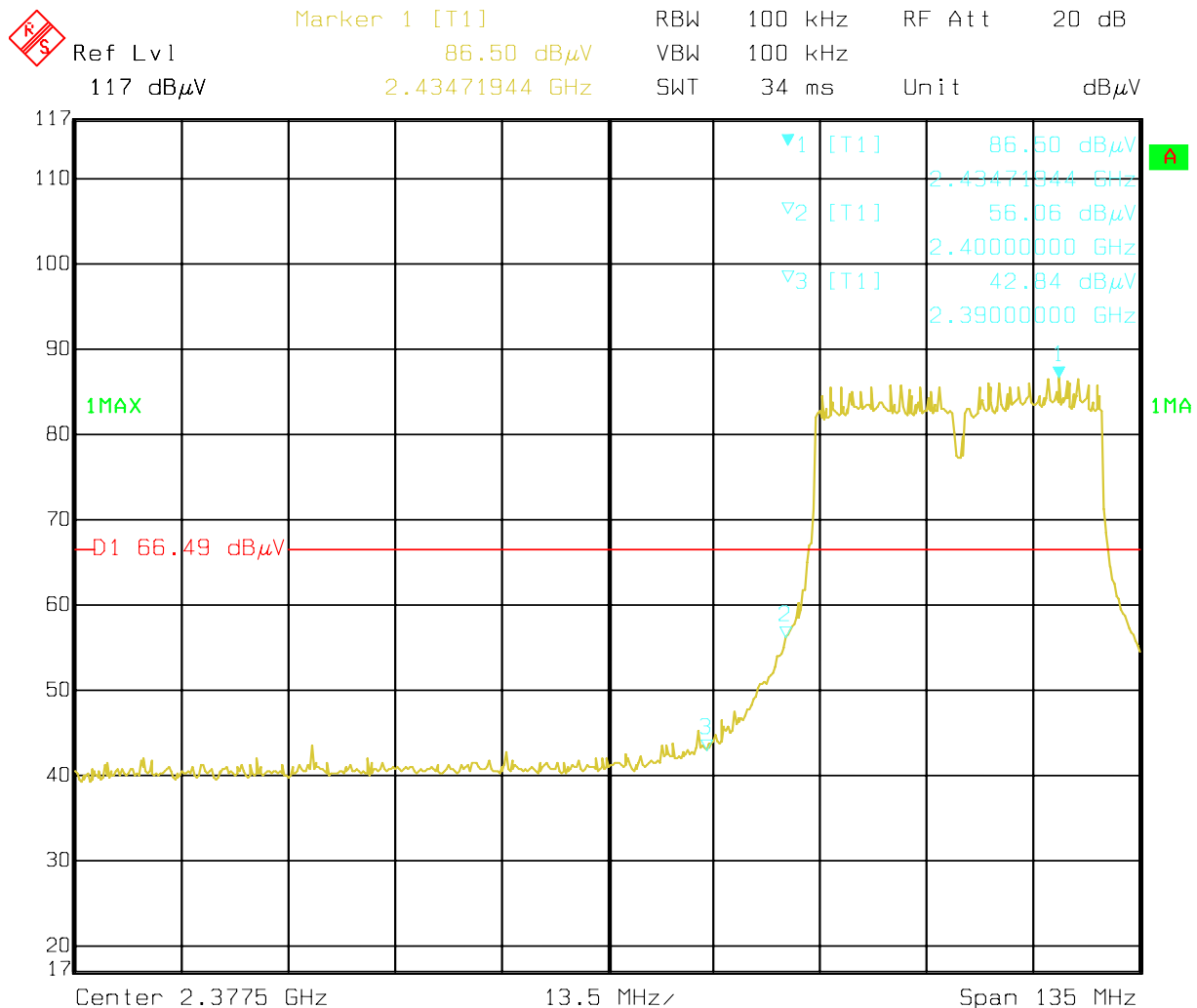
For 802.11n HT40 mode

CH03 at 135Mbps

#### 10.4 Restricted band and bandedge Measurement

Product:	nScreenBox		Model	HT nScreenBox SM01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band 2390MHz	PK (dBμV/m)	42.15(V) /38.41(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	33.03(V) /31.13(H)		54(dBμV/m)

#### Test Figure:



Date: 22.SEP.2011 19:29:51

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

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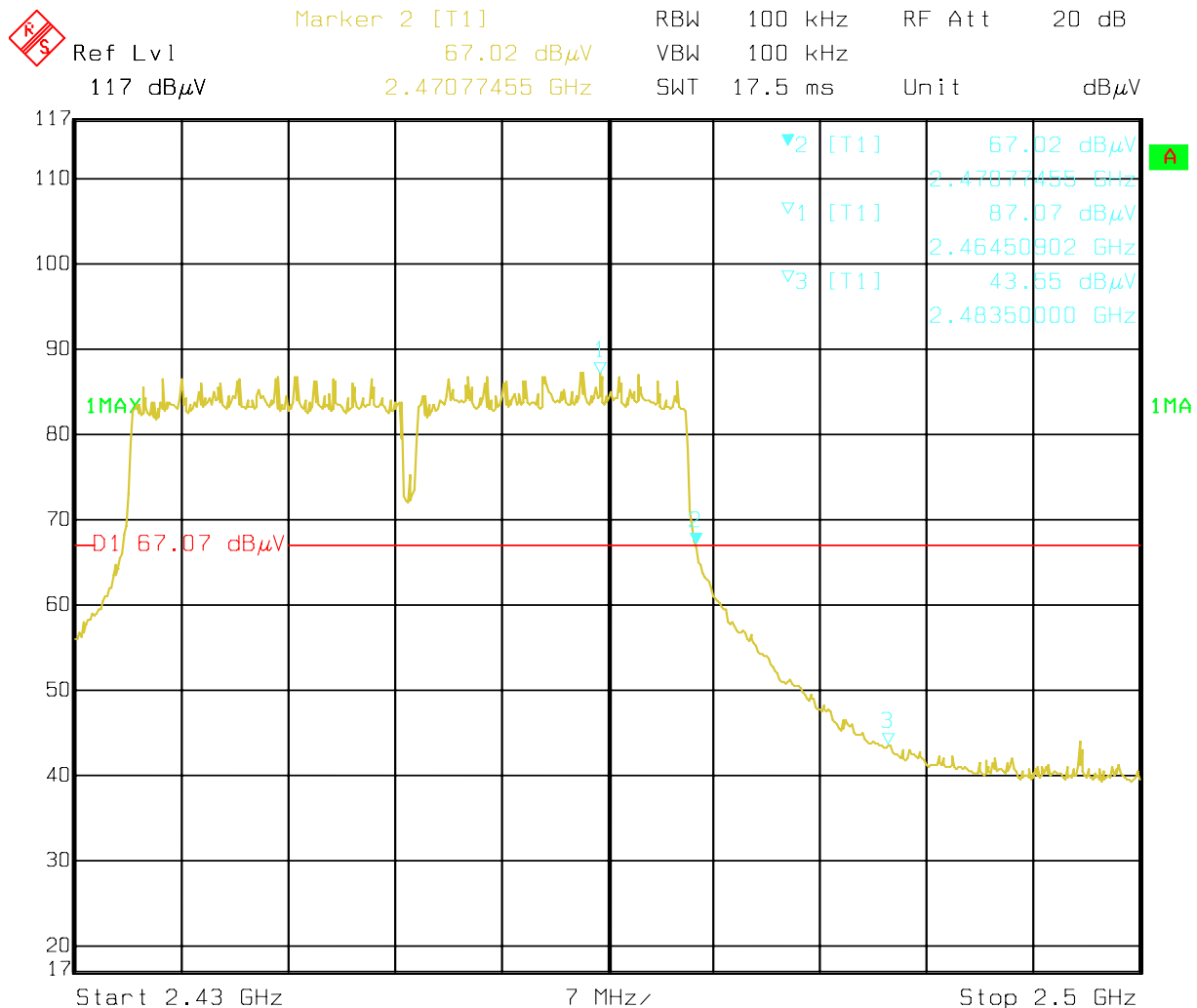


CH9 at 135Mbps

#### 10.4 Restricted band and bandedge Measurement

Product:	nScreenBox		Model	HT nScreenBox SM01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
The Max. FS in Restrict Band 2483.5MHz	PK (dBμV/m)	43.12(V)/38.28(H)	Limit	74(dBμV/m)
	AV (dBμV/m)	32.32(V)/30.64(H)		54(dBμV/m)

#### Test Figure:



Date: 22.SEP.2011 19:27:12

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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**

PCB antenna. The maximum Gain of the antenna is 3.48dBi.

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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 <sup>2</sup> )	Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> 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 <sup>2</sup> )	Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> 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

$$E \text{ (V/m)} = (30 \cdot P \cdot G)^{0.5} / d$$

$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} = E^2 / 377$$

**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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**Calculated Result and Limit**

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.23	15.46	35.16	0.155	1	Compiles

**Note: 802.11b 11Mbps is the worse case.**



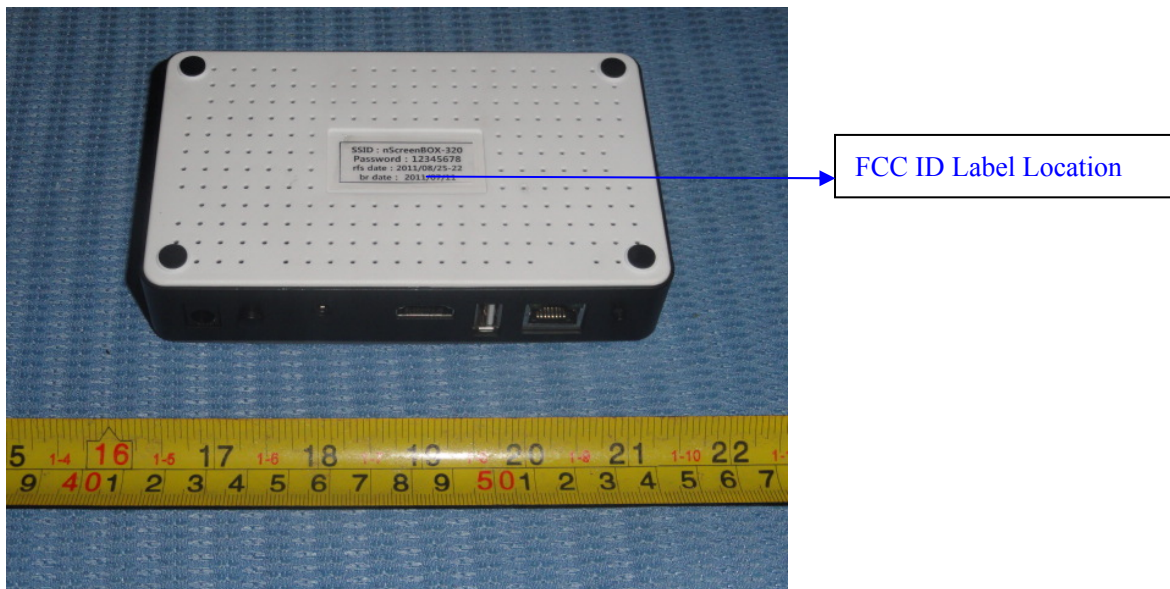
### 13.0 FCC ID Label

#### FCC ID: TJWNSCREENSM

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

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

#### Mark Location:



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#### 14.0 Photo of testing

##### Conducted Emissions



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14.3 Photo for the EUT

Front View



Back View



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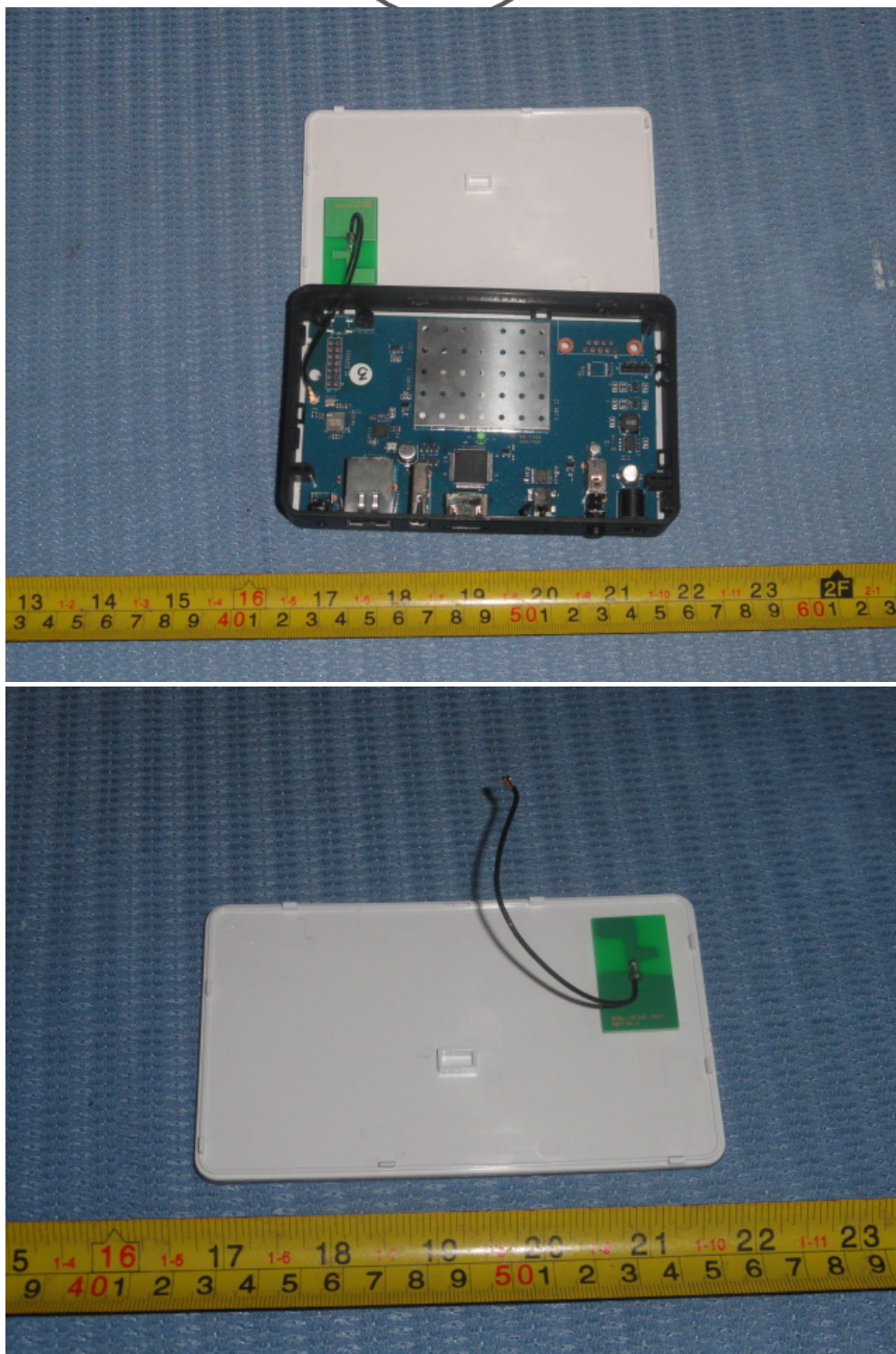
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Interior View

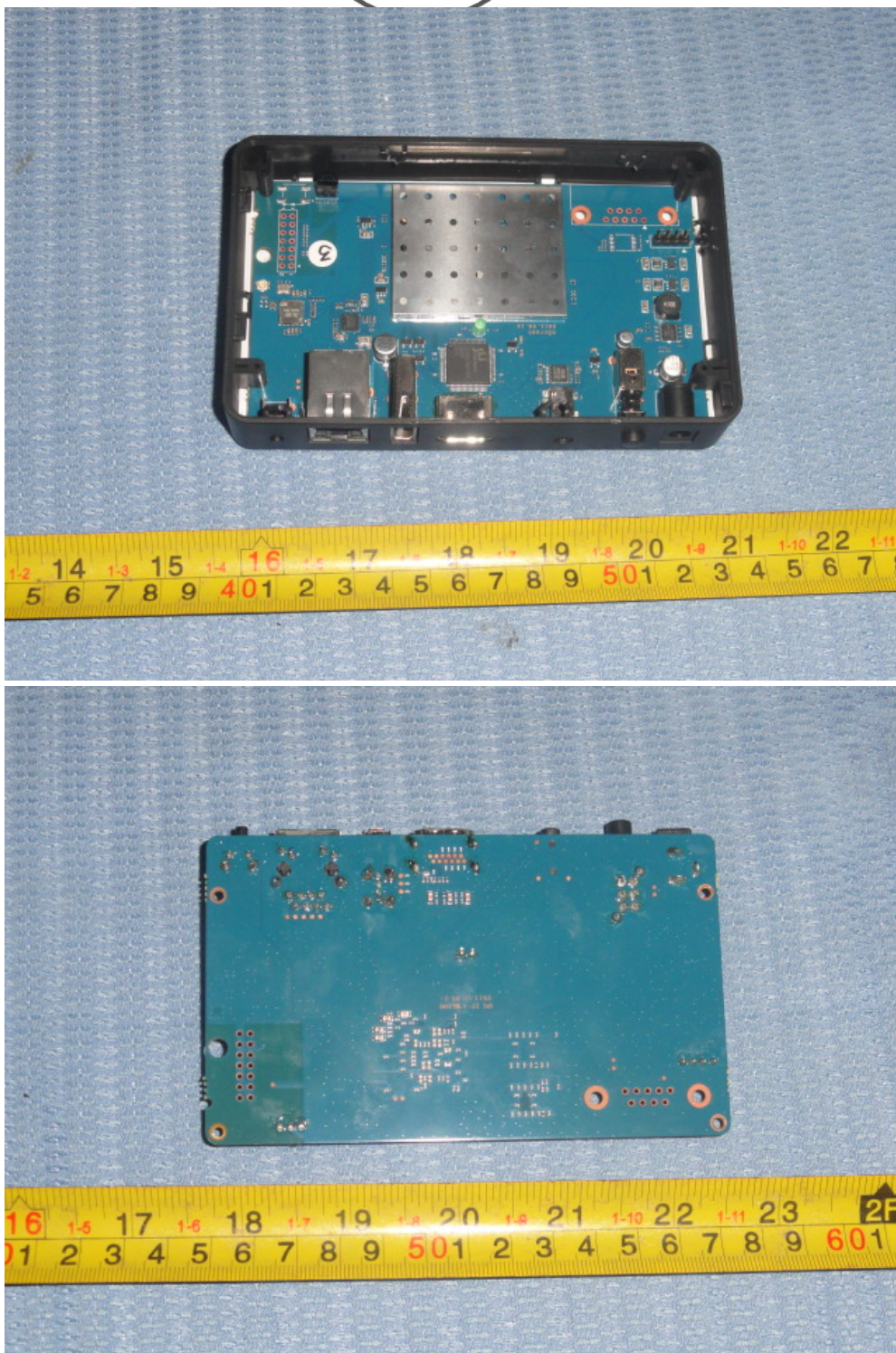


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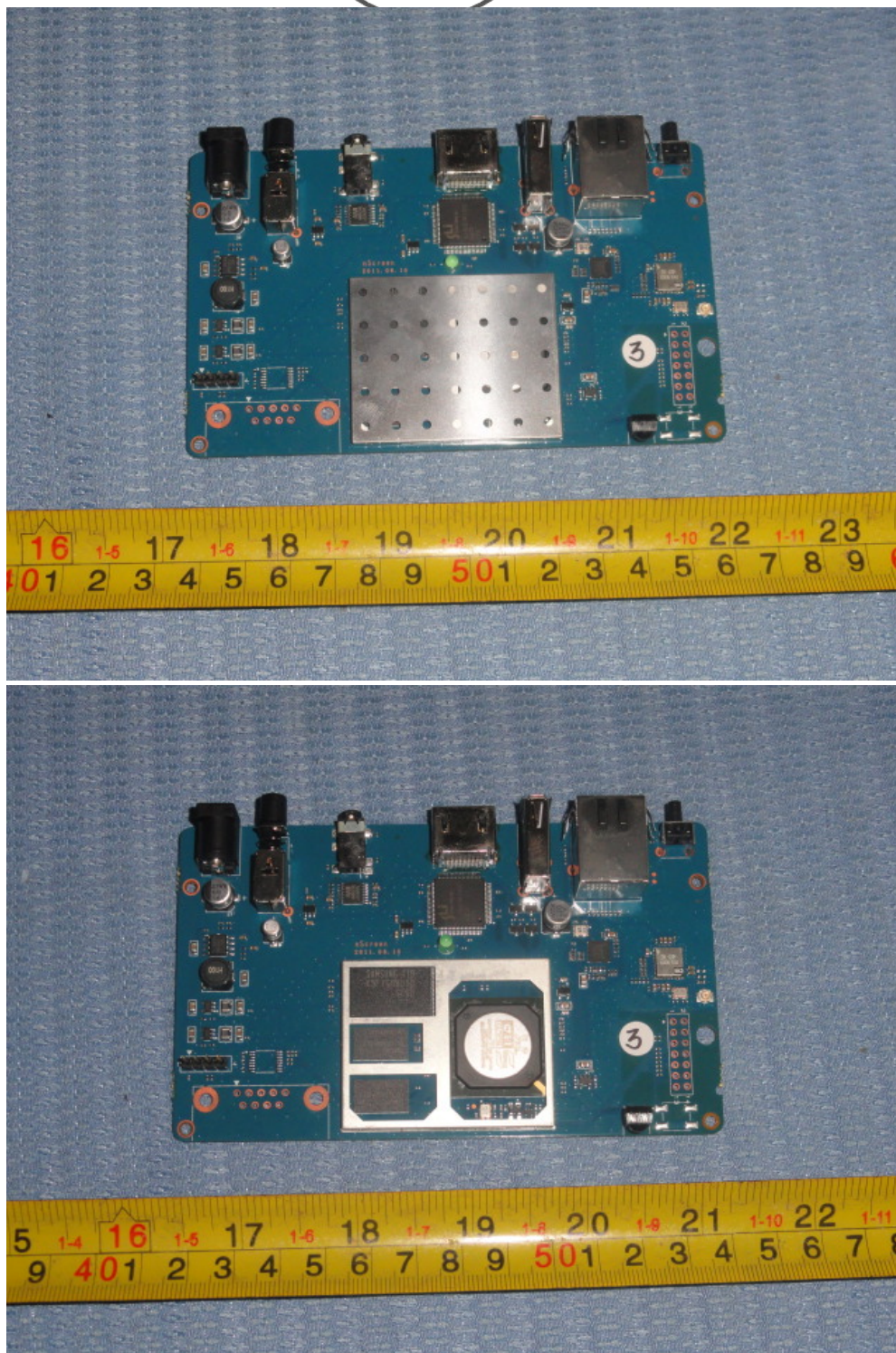


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**End of the report**

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