

TECHNICAL REPORT



ISO/IEC17025 Accredited Lab.

Report No: FCC 1304086
File reference No: 2013-04-23

Applicant: Haier International(hk) Limited

Product: MID

Model No: HS-7DTB12

Trademark: Meridian

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

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

Approved By

Jack Chung

Jack Chung
Manager

Dated: April 23, 2013

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.

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Special Statement:

The testing quality ability of our laboratory meet with “Quality Law of People’s Republic of China” Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-02

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-02.

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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: Haier International (hk) Limited
Address: No.1 Haier Road,702B,Chuang Pai Mansion South, Qingdao 266101, P.R. China
Telephone: 0532-88937841
Fax: 0532-88937816

1.3 Description of EUT

Product: MID
Manufacturer: Haier International (hk) Limited
Address: No.1 Haier Road,702B,Chuang Pai Mansion South, Qingdao 266101, P.R. China
Brand Name: Meridian
Model Number: HS-7DTB12
Additional Model Number: N/A

Power Adapter	ASSA1A-050200 Input: 100-240V, 50/60Hz, 0.45A; Output: 5.0V, 2000mA
Type of Modulation	IEEE 802.11b : DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20) : OFDM(64QAM, 16QAM, QPSK, BPSK)
Frequency range	IEEE 802.11b/g/n (HT20) : 2412-2462MHz;
Channel Spacing	IEEE 802.11b/g/n (HT20) : 5MHz
Air Data Rate	IEEE 802.11b : 11, 5.5, 2, 1 Mbps IEEE 802.11g : 54, 48,36, 24, 18, 12, 9, 6 Mbps IEEE 802.11n HT20 : 150, 117,104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps
Frequency Selection	By software
Channel Number	IEEE 802.11b/g/n (HT20) : 11 Channels

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Antenna: Integral Antenna with maximum gain 2.0dBi

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2013-04-08 to 2013-04-22

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

A handwritten signature in black ink that reads '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	2012-08-21	2013-08-20
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2012-08-21	2013-08-20
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2012-08-21	2013-08-20
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2012-08-21	2013-08-20
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2012-08-21	2013-08-20
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2012-08-21	2013-08-20
System Controller	CT	SC100	-	--	--
Printer	EPSON	PHOTO EX3	CFNH234850	--	--
Computer	IBM	8434	1S8434KCE99BLXL O*	-	-
Loop Antenna	EMCO	6502	00042960	2012-08-21	2013-08-20
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2012-08-21	2013-08-20
3m OATS	--	--	N/A	2012-08-21	2013-08-20
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2012-08-21	2013-08-20
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2012-08-21	2013-08-20
Power meter	Anritsu	ML2487A	6K00003613	2012-08-21	2013-08-20
Power sensor	Anritsu	MA2491A	32263	2012-08-21	2013-08-20
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2012-08-21	2013-08-20
LISN	AFJ	LS16C	10010947251	2012-08-21	2013-08-20
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2012-08-21	2013-08-20
9*6*6 Anechoic	--	--	N/A	2012-08-21	2013-08-20
EMI Test Receiver	RS	ESCS30	100139	2012-08-21	2013-08-20
LISN	AFJ	LS16C	10010947251	2012-08-21	2013-08-20
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2012-08-21	2013-08-20

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2.1 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
TF Card	--	--	Kingston	--	--
Earphone	--	--	--	--	--

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3. DESCRIPTION OF TEST MODES

IEEE 802.11b, 802.11g, 802.11n (HT20) mode

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 802.11b mode: 11Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: 65Mbps data rate (worst case) were chosen for full testing



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 & RSS-210 Issue 8	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit & RSS-210 Issue 8	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b) & RSS-210 Issue 8	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209 & RSS-210 Issue 8	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e) & RSS-210 Issue 8	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d) & RSS-210 Issue 8	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 & RSS-210 Issue 8

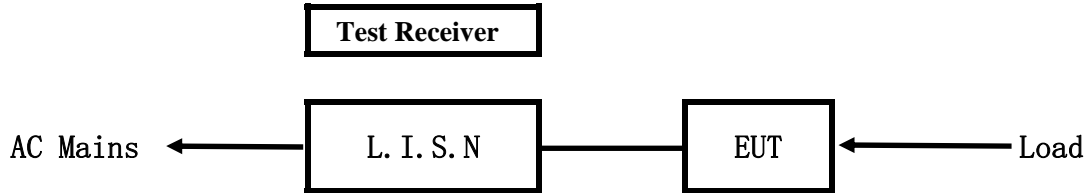
4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

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5. Power Line Conducted Emission Test

5.1 Schematics of the test



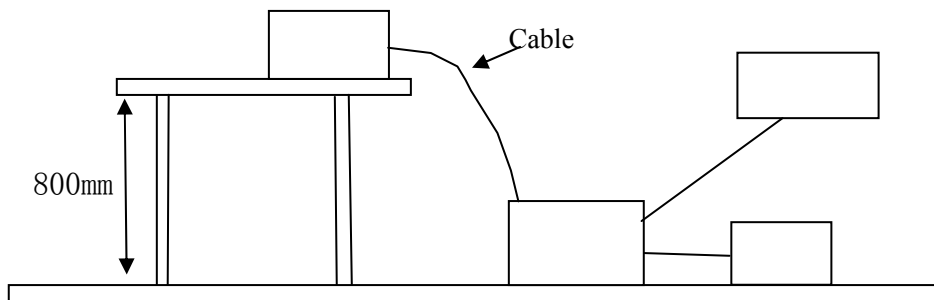
EUT: Equipment Under Test

5.2 Test Method and test Procedure

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

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

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

A. EUT

Device	Manufacturer	Model	FCC
MID	Haier International(hk) Limited	HS-7DTB12	RH2-HS-7DTB12

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107 and RSS-210

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:
- *Decreasing linearly with logarithm of frequency.
 - 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.



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

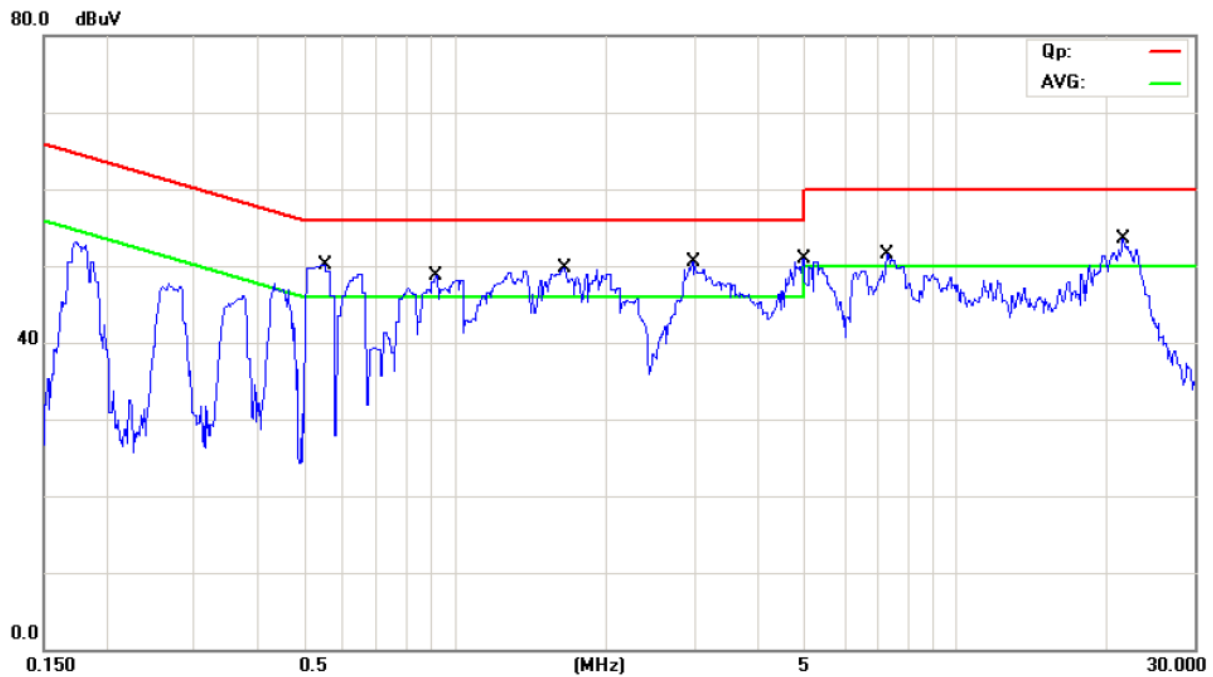
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 Kpa

EUT set Condition: Charging And Keep WIFI Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.915	Live	45.01	31.11	56.00	46.00
1.654	Live	42.56	32.16	56.00	46.00
2.950	Live	47.88	38.38	56.00	46.00
4.941	Live	46.78	37.78	56.00	46.00
7.235	Live	45.06	36.66	60.00	50.00
21.578	Live	49.09	38.79	60.00	50.00
0.548	Live	31.12	23.42	56.00	46.00

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

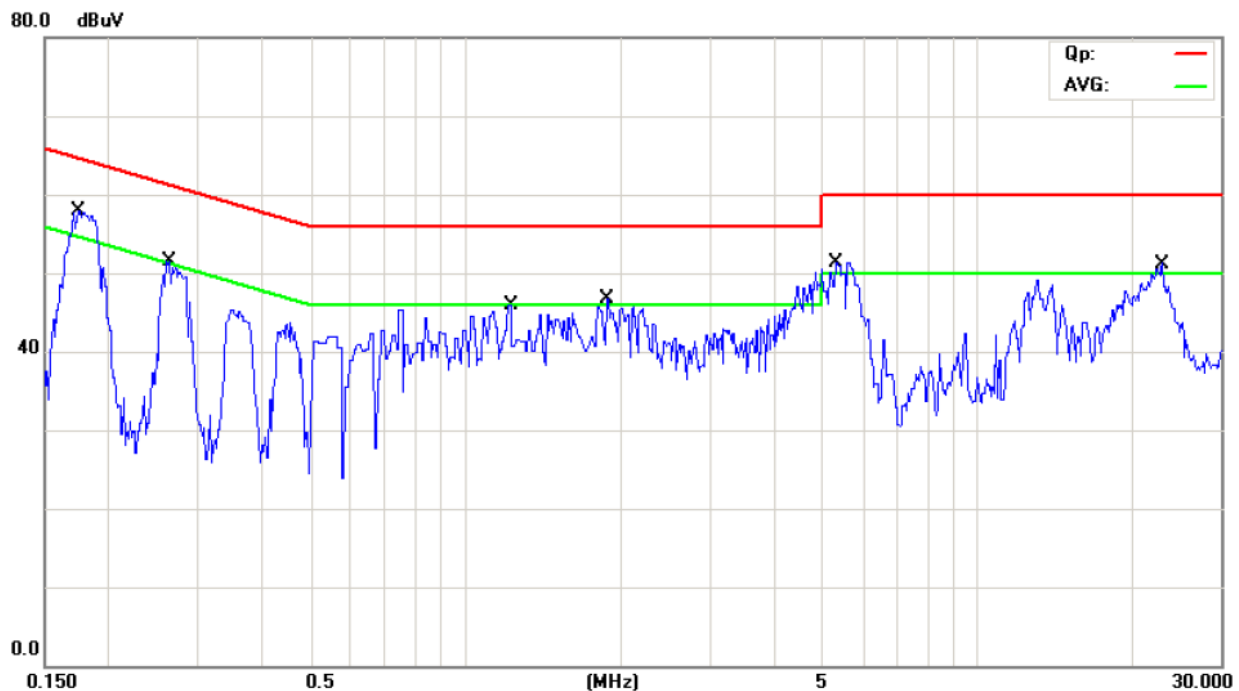
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 Kpa

EUT set Condition: Charging And Keep WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.174	Neutral	51.73	32.13	64.73	54.73
0.261	Neutral	45.92	31.92	61.37	51.37
1.228	Neutral	33.09	22.89	56.00	46.00
1.888	Neutral	36.76	29.36	56.00	46.00
5.258	Neutral	48.39	33.39	60.00	50.00
22.977	Neutral	47.38	37.98	60.00	50.00

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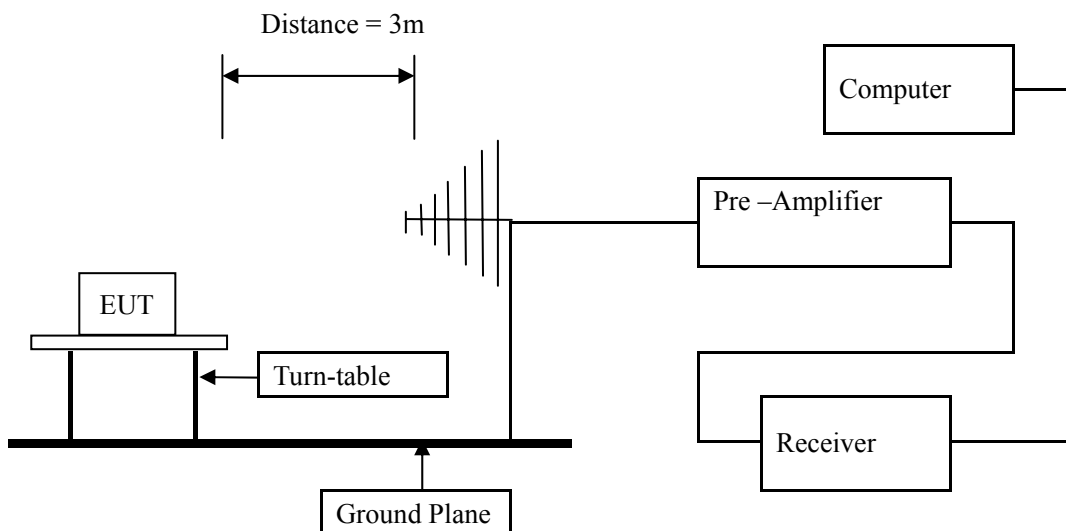
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6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna 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 and 15.109 and RSS-210

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
 4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep WIFI Transmitting**

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.520	38.60	H	43.50
247.520	32.80	H	46.00
445.520	37.17	H	46.00
544.520	36.47	H	46.00
148.520	40.02	V	43.50
173.280	35.14	V	43.50
445.520	36.94	V	46.00
544.520	40.70	V	46.00

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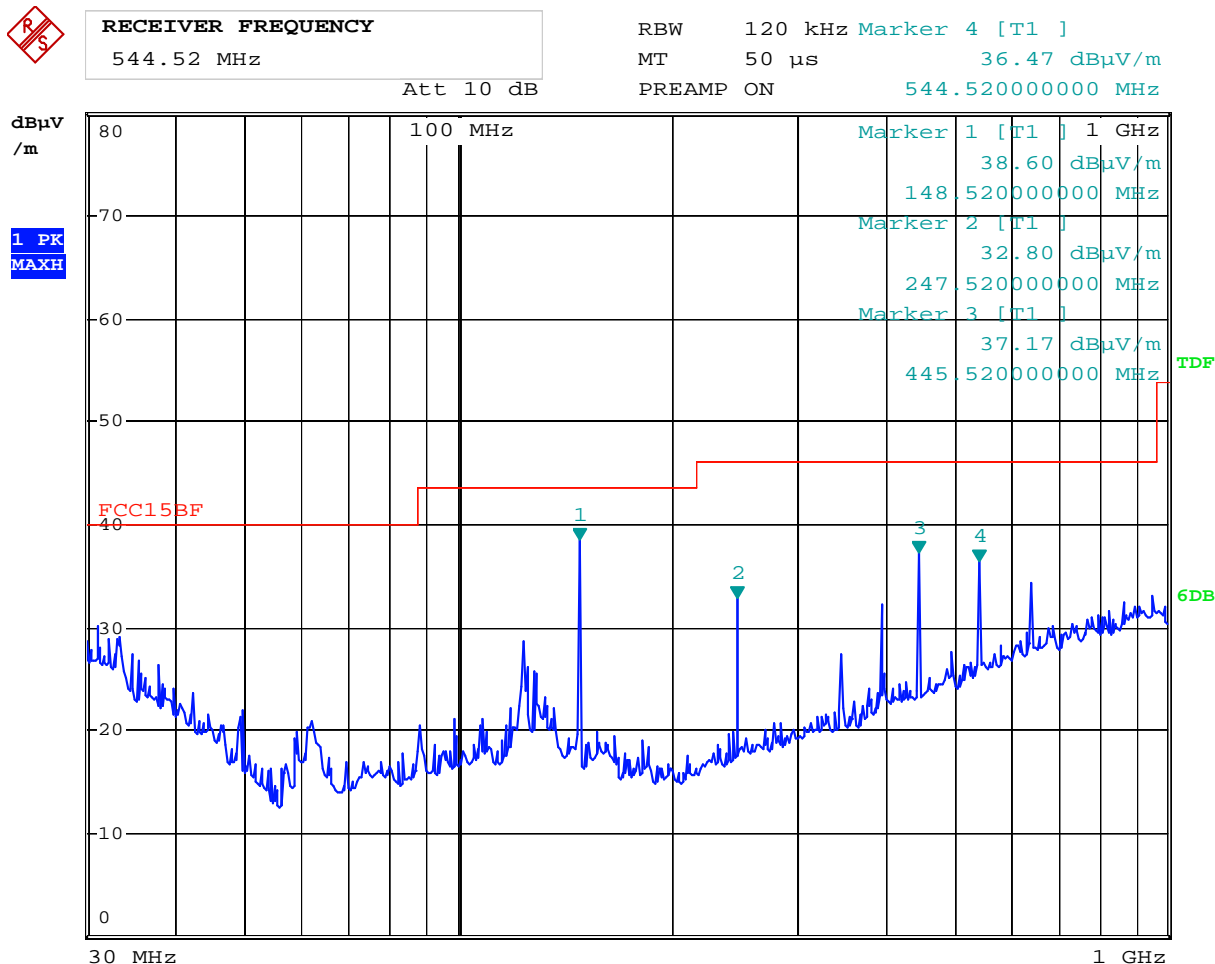
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Test Figure:

H

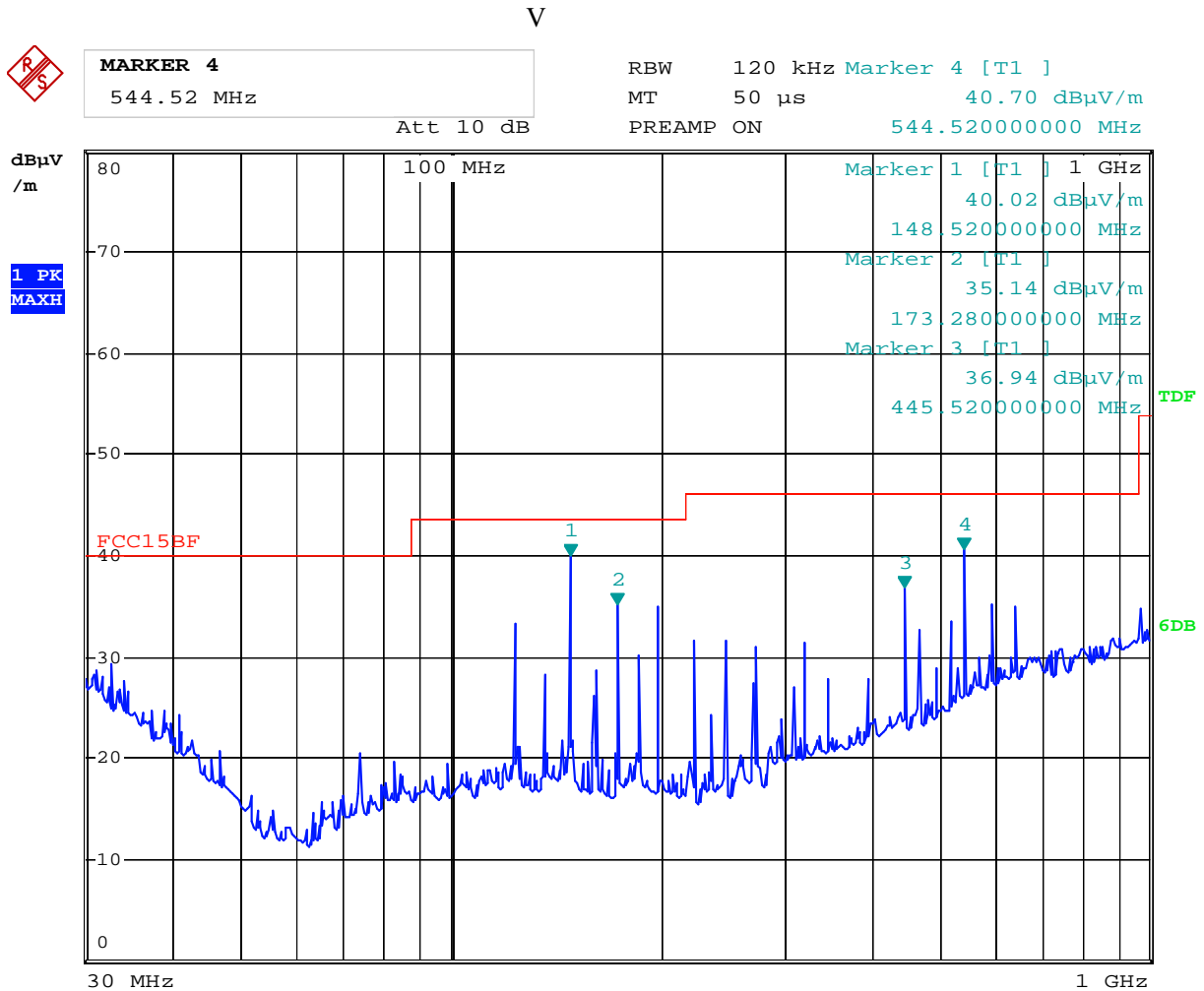


Date: 22.APR.2013 12:10:42

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Test Figure:



Date: 22.APR.2013 12:26:26

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Operation Mode: Transmitting & Receiving under CH01 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	90.39 (PK)	H	Fundamental Frequency
2412.00	90.69 (PK)	V	
4824.00	45.78 (PK)	H	74(Peak)/ 54(AV)
4824.00	46.32 (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 6Mbps

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Operation Mode: Transmitting & Receiving under CH06 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	89.97 (PK)	H	Fundamental Frequency
2437.00	90.44 (PK)	V	
4874.00	46.47 (PK)	H	74(Peak)/ 54(AV)
4874.00	48.20 (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 6 Mbps

Operation Mode: Transmitting & Receiving under CH11 for 11g at 6Mbps

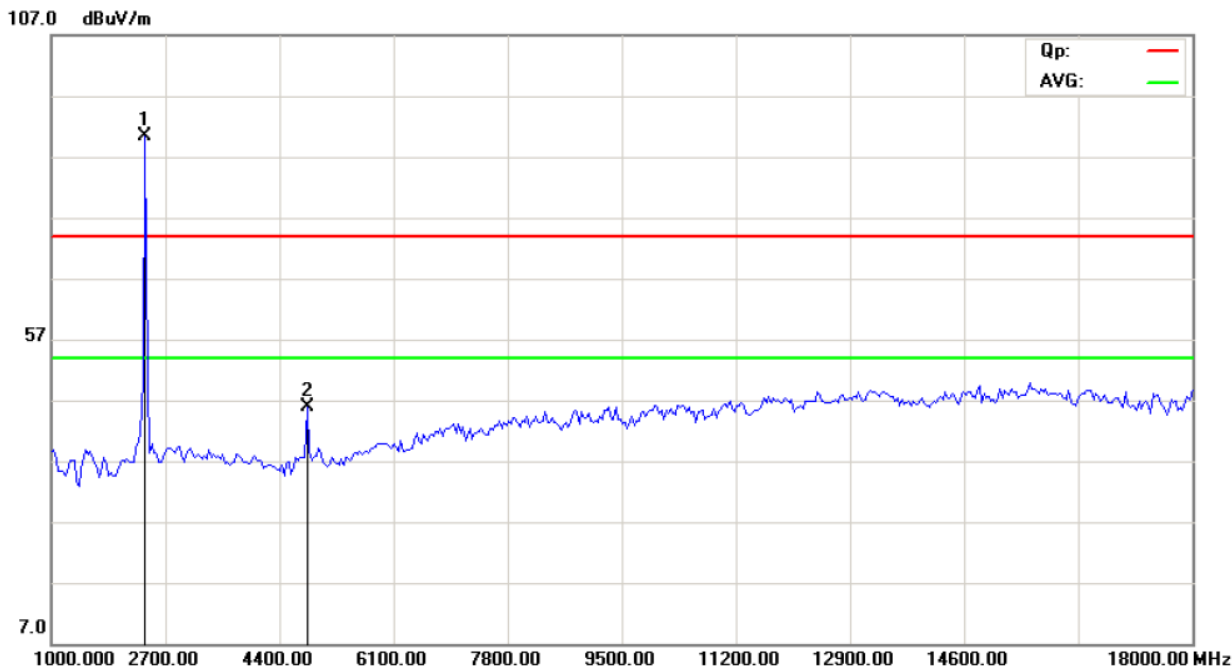
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	89.43 (PK)	H	Fundamental Frequency
2462.00	91.86 (PK)	V	
4924	46.58 (PK)	H	74(Peak)/ 54(AV)
4924	47.84 (PK)	V	74(Peak)/ 54(AV)
7368	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	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 6 Mbps

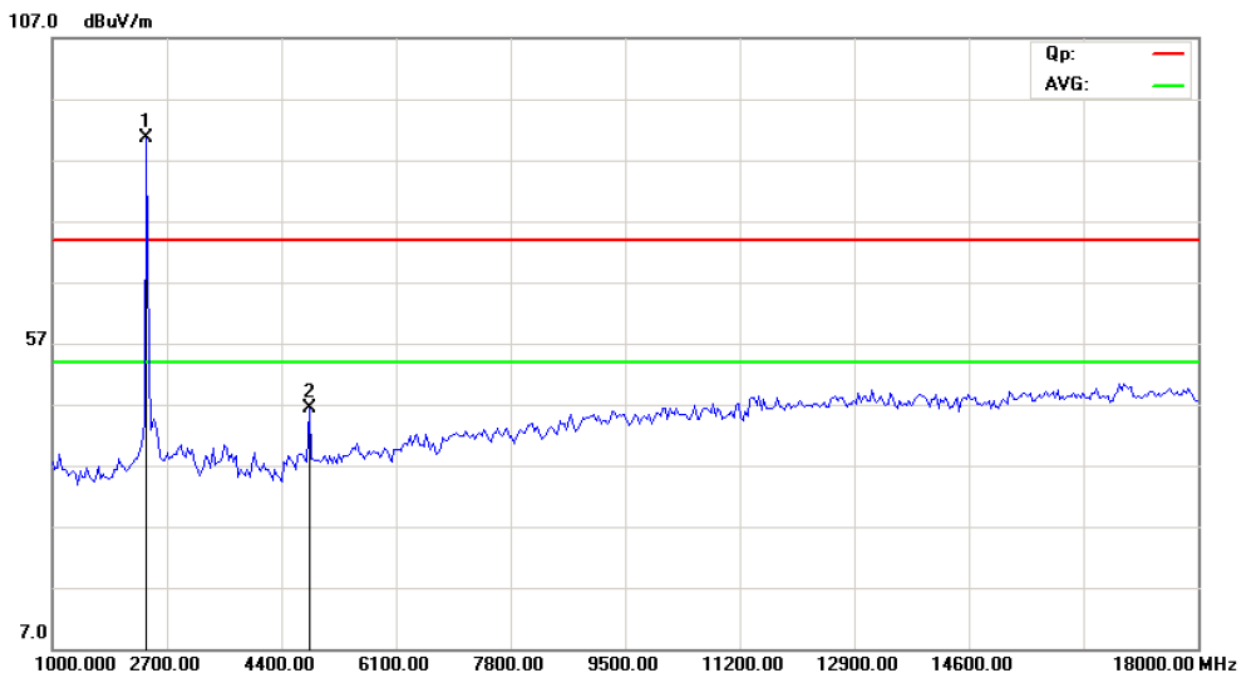
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Please refer to the following test plots for details:

CH01 for 11g at 6Mbps: Horizontal



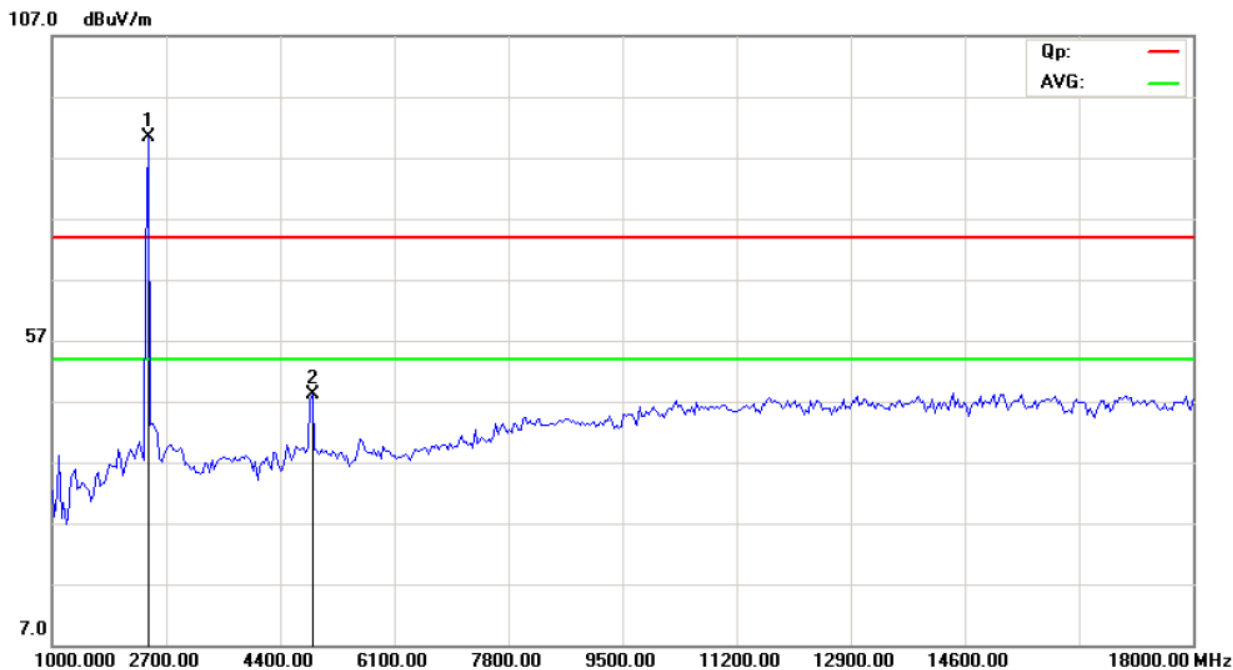
CH01 for 11g at 6Mbps: Vertical



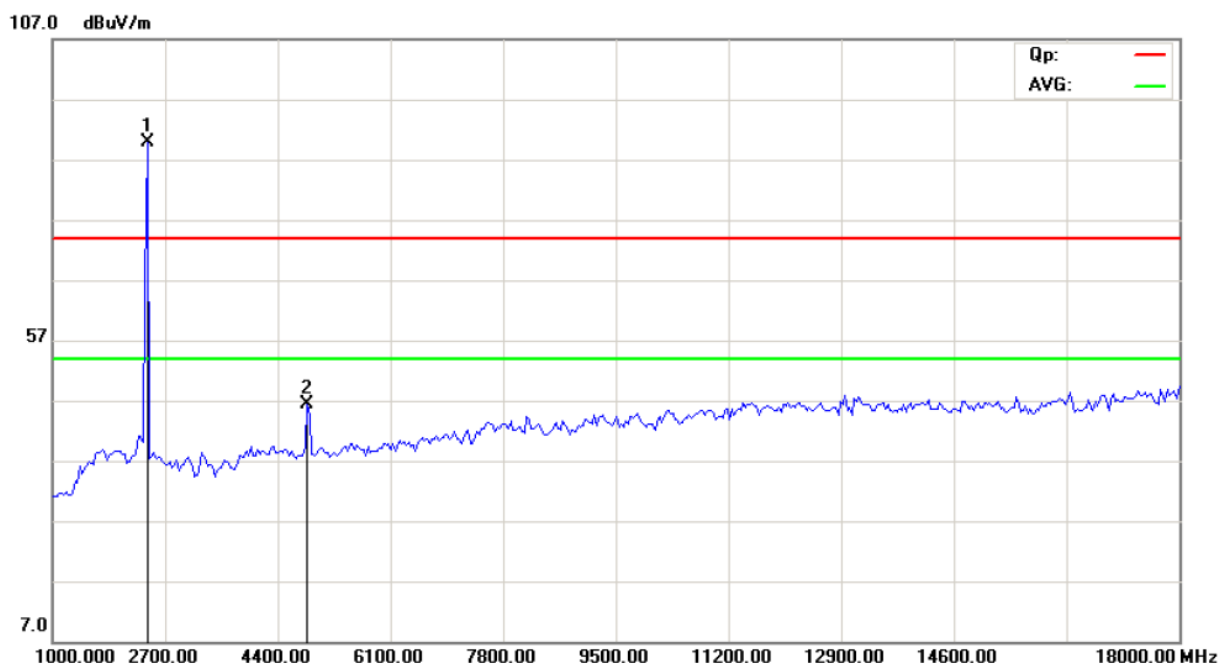
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CH06 for 11g at 6Mbps: Vertical

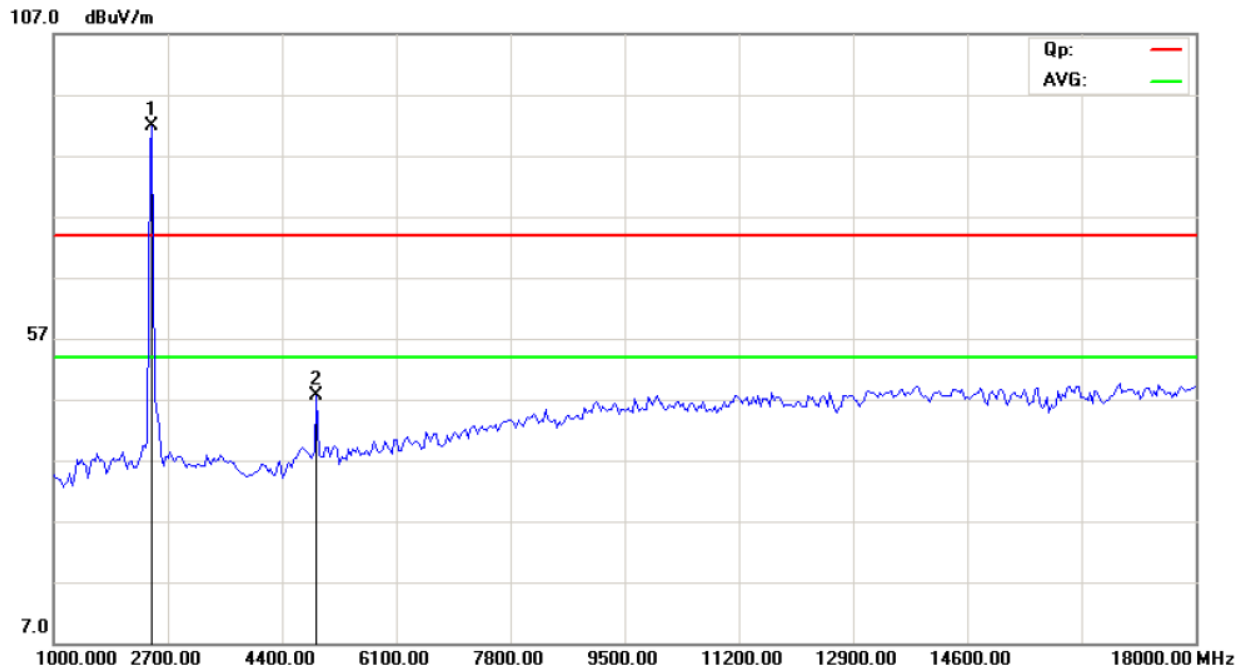


CH06 for 11g at 6Mbps: Horizontal

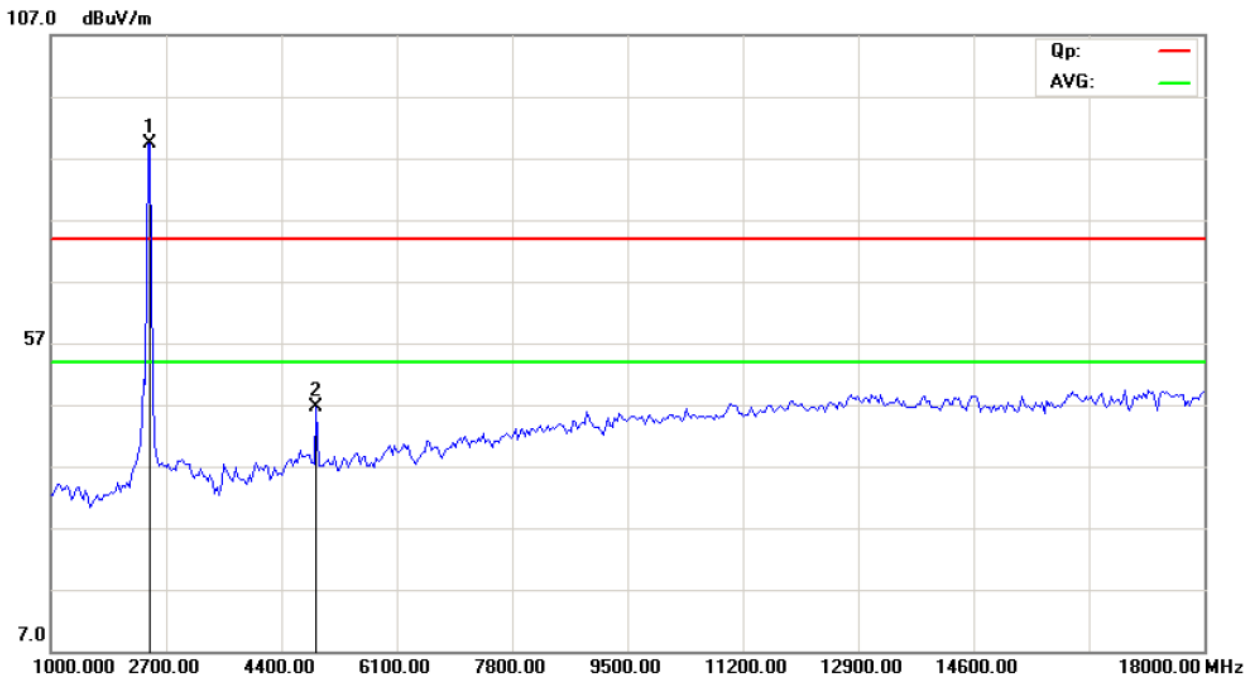


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CH11 for 11g at 6Mbps: Vertical



CH11 for 11g at 6Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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Operation Mode: Transmitting & Receiving under CH01 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	92.26 (PK)	V	Fundamental Frequency
2412.00	89.76 (PK)	H	
4824.00	46.32 (PK)	H	74(Peak)/ 54(AV)
4824.00	45.09 (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: Transmitting & Receiving under CH06 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	91.13 (PK)	H	Fundamental Frequency
2437.00	91.15 (PK)	V	
4874.00	47.12 (PK)	H	74(Peak)/ 54(AV)
4874.00	47.00 (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: Transmitting & Receiving under CH11 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	89.88 (PK)	H	Fundamental Frequency
2462.00	92.17 (PK)	V	
4924	46.29 (PK)	H	74(Peak)/ 54(AV)
4924	47.13 (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)

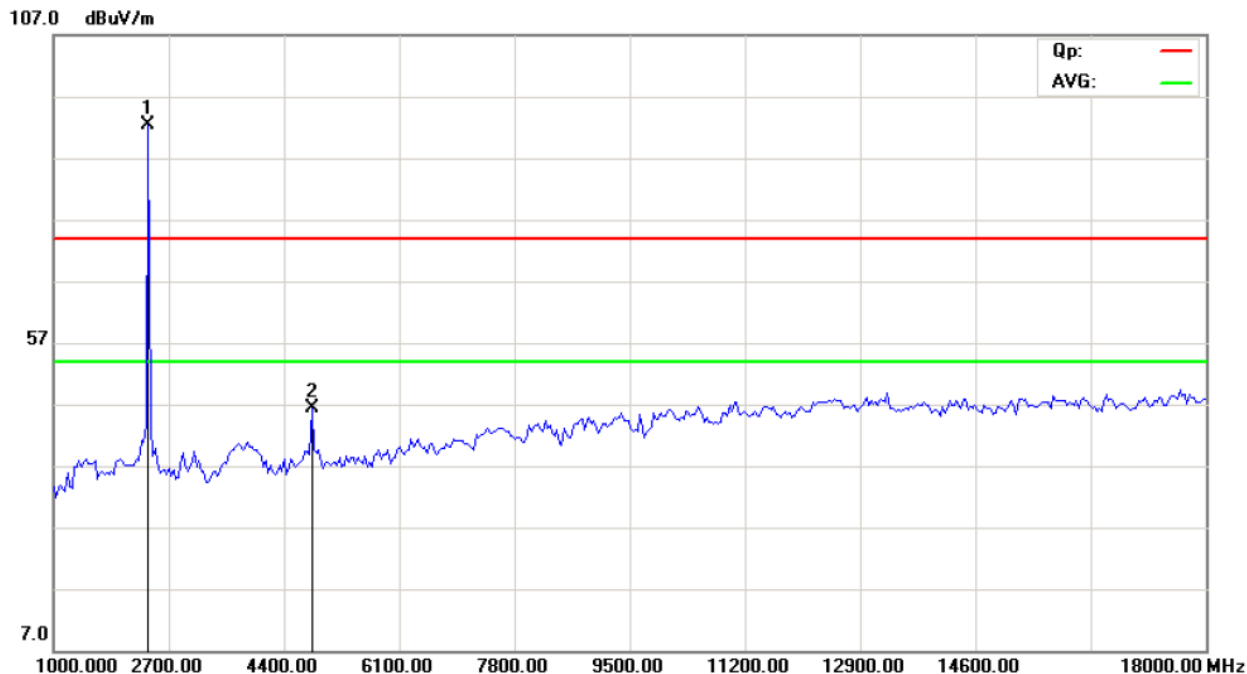
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
 2. Remark "---" means that the emissions level is too low to be measured
 3. For 802.11b mode at 11Mbps

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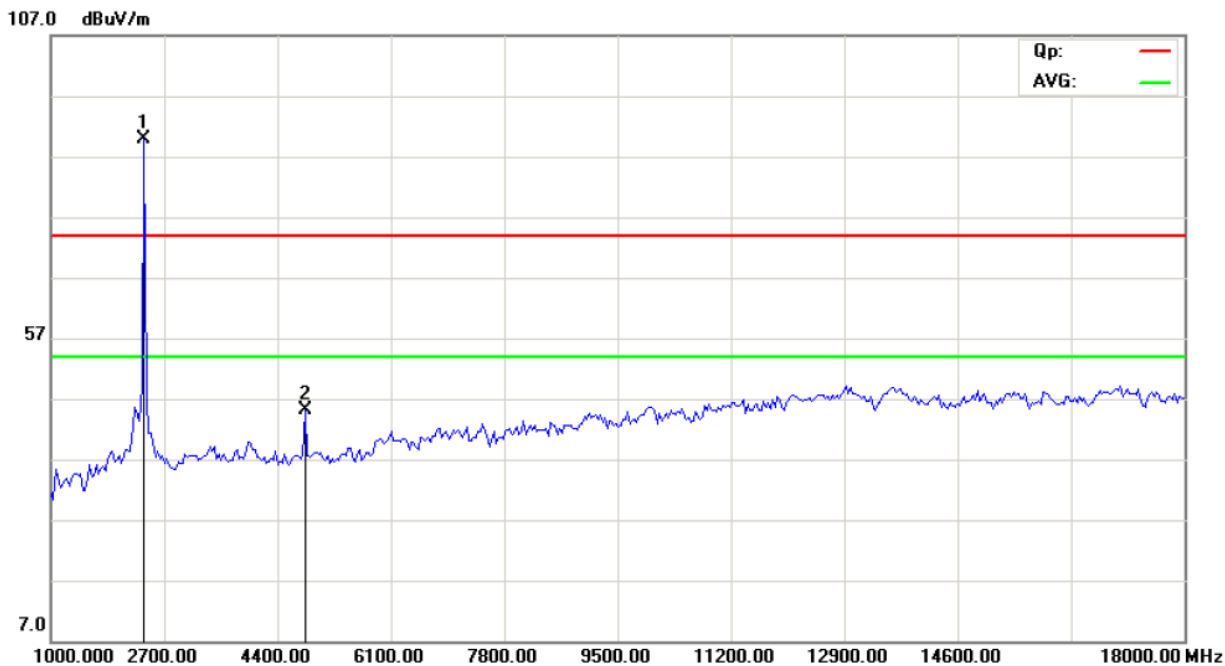


Please refer to the following test plots for details:

CH01 for 11b at 11Mbps: Horizontal



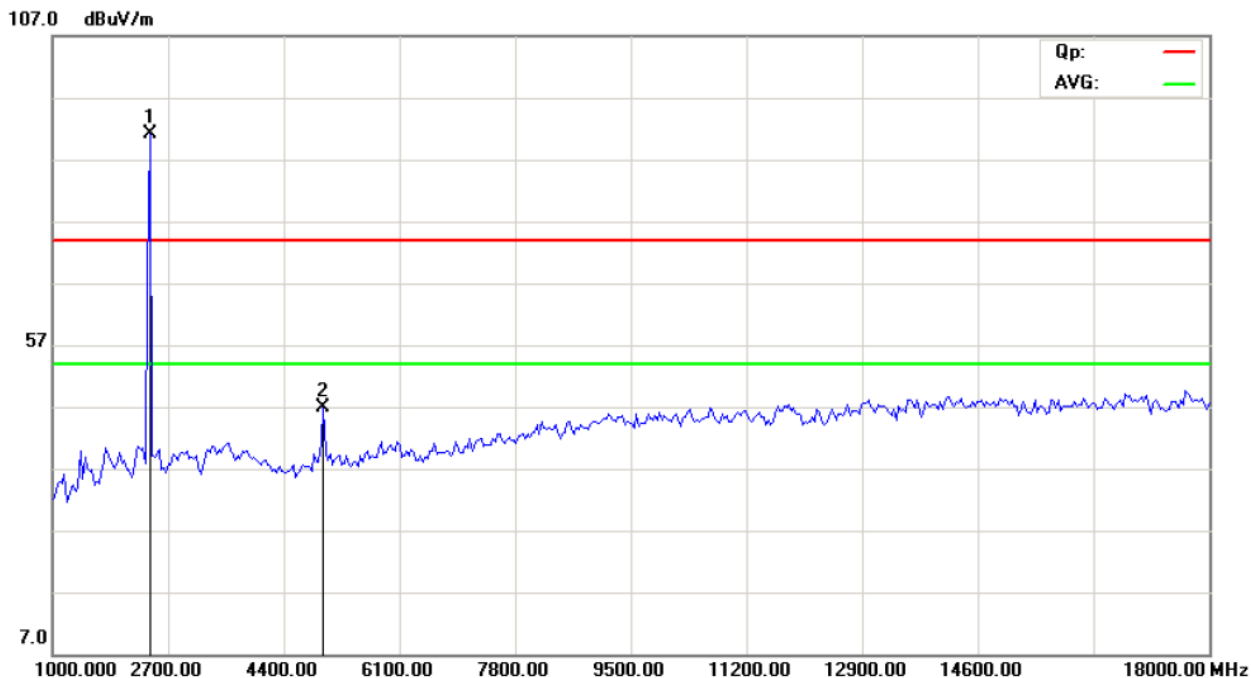
CH01 for 11b at 11Mbps: Vertical



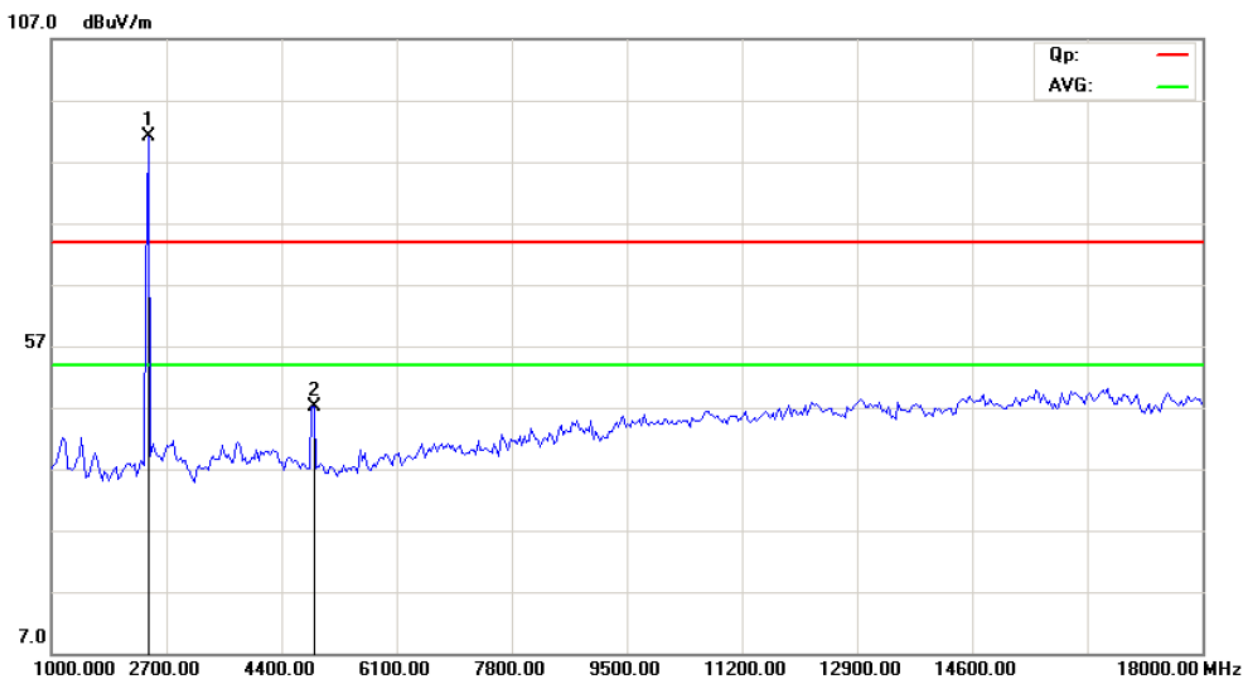
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CH06 for 11b at 11Mbps: Vertical

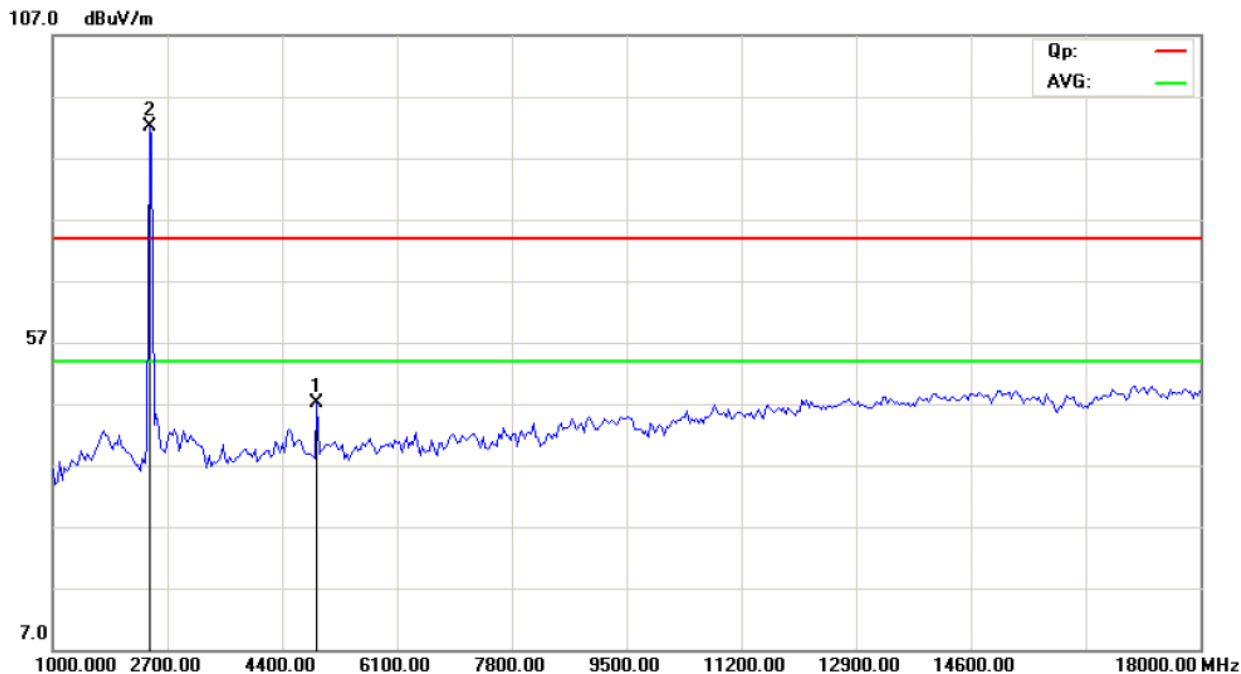


CH06 for 11b at 11Mbps: Horizontal

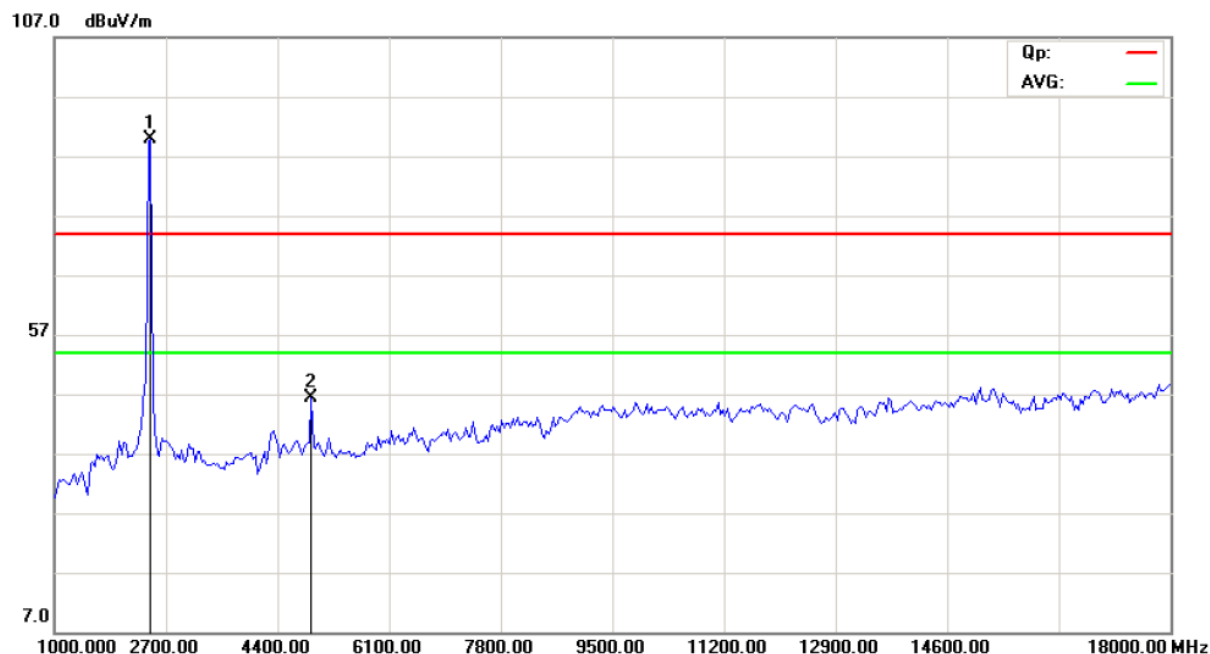


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CH11 for 11b at 11Mbps: Vertical



CH11 for 11b at 11Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.



Operation Mode: Transmitting & Receiving under CH01 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	91.36 (PK)	H	Fundamental Frequency
2412.00	91.42 (PK)	V	
4824.00	45.86 (PK)	H	74(Peak)/ 54(AV)
4824.00	48.09 (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 802.11n (HT20) mode 65Mbps

Operation Mode: Transmitting & Receiving under CH06 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	91.55 (PK)	H	Fundamental Frequency
2437.00	92.01 (PK)	V	
4874.00	48.04 (PK)	H	74(Peak)/ 54(AV)
4874.00	46.19 (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 802.11n (HT20) mode 65Mbps

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Operation Mode: Transmitting & Receiving under CH11 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	89.12 (PK)	H	Fundamental Frequency
2462.00	92.31 (PK)	V	
4924	46.19 (PK)	H	74(Peak)/ 54(AV)
4924	47.14 (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)

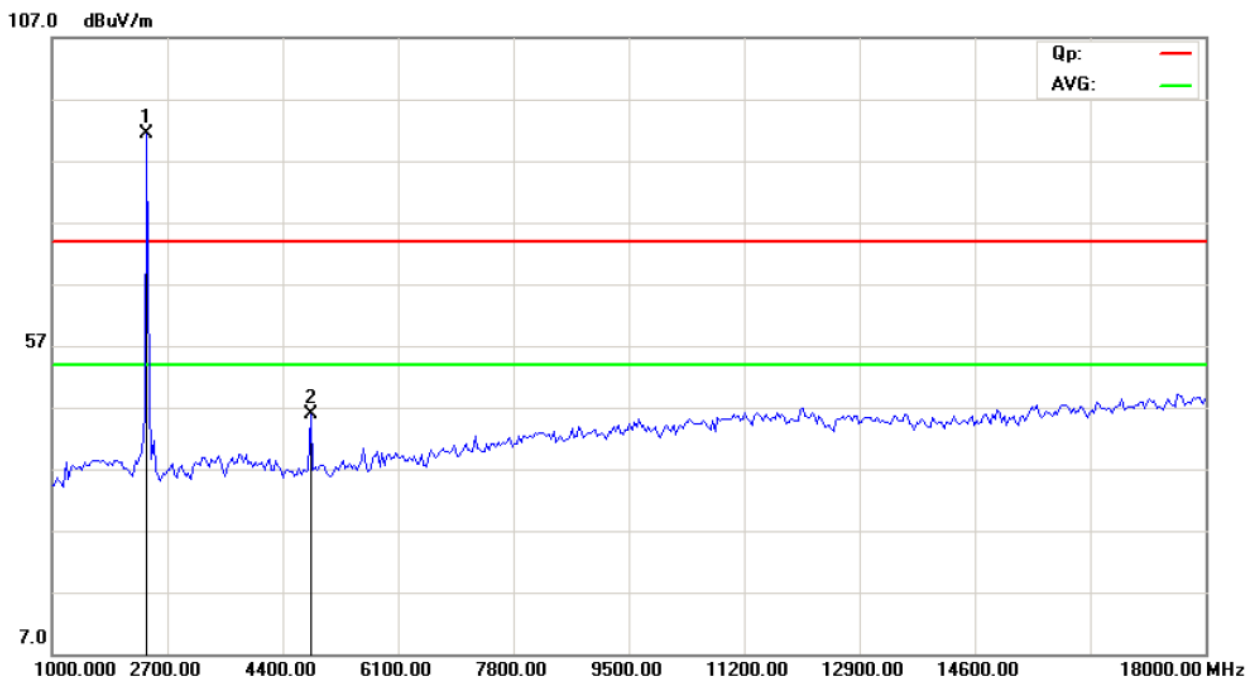
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
 2. Remark "---" means that the emissions level is too low to be measured
 3. For 802.11n (HT20) mode 65Mbps

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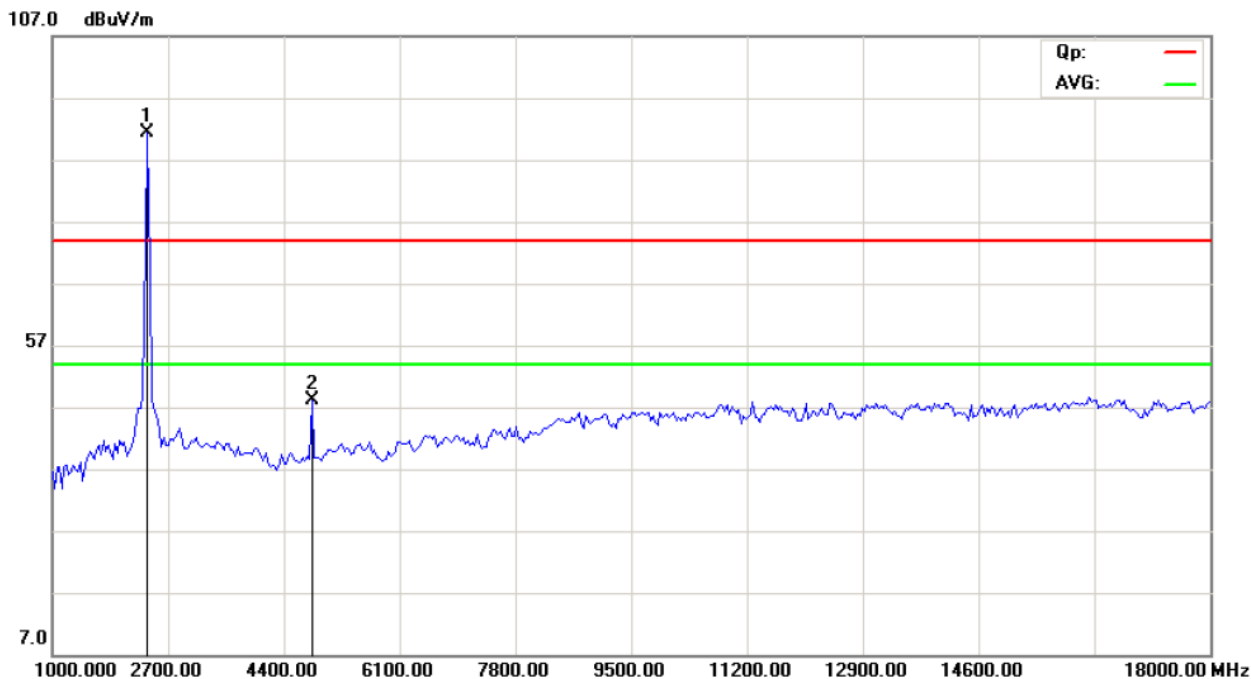


Please refer to the following test plots for details:

CH01 for 11n HT20 at 65Mbps: Horizontal

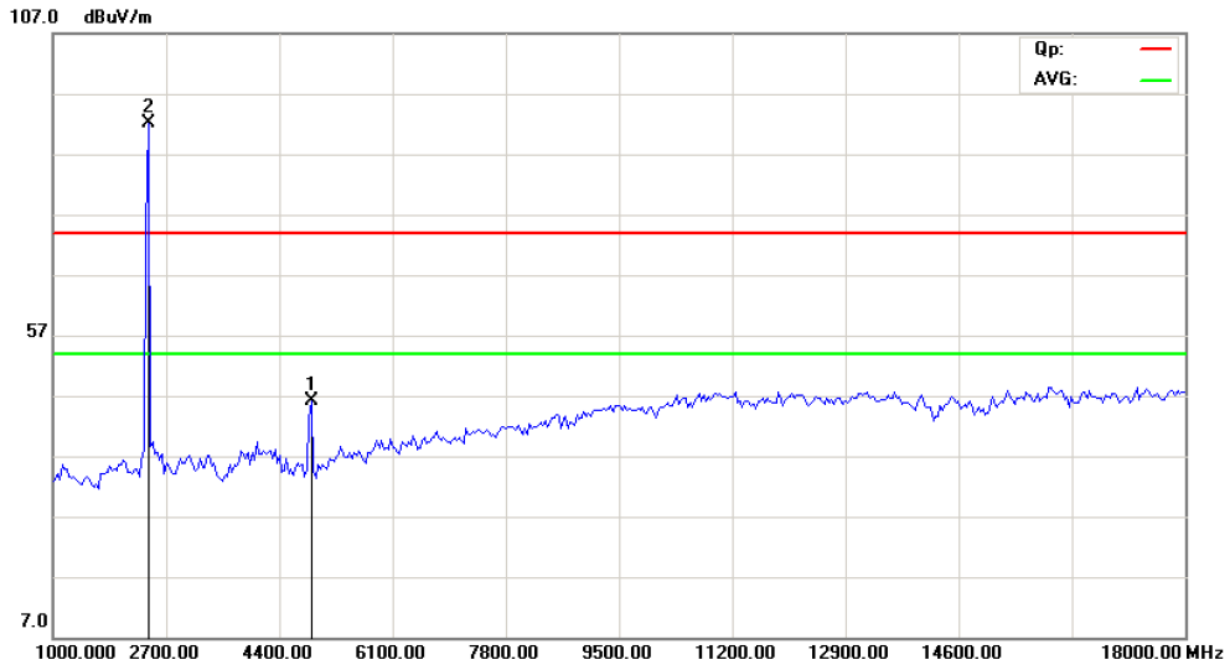


CH01 for 11n HT20 at 65Mbps: Vertical

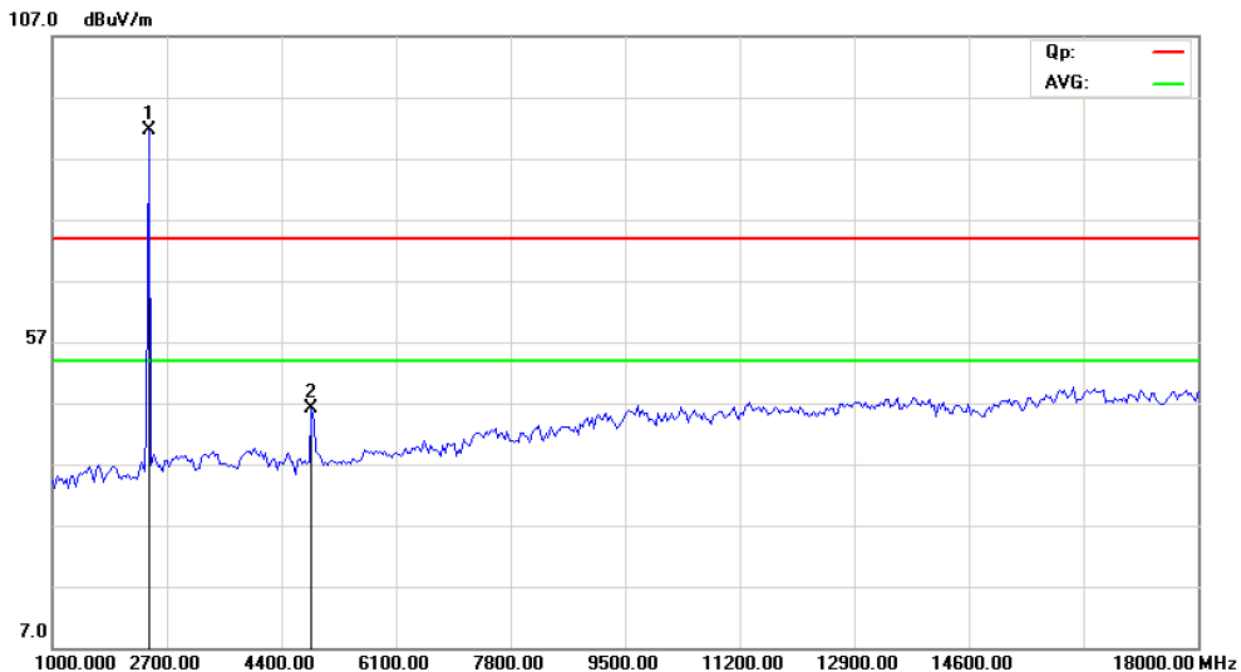


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CH06 for 11n HT20 at 65Mbps: Vertical



CH06 for 11n HT20 at 65Mbps: Horizontal

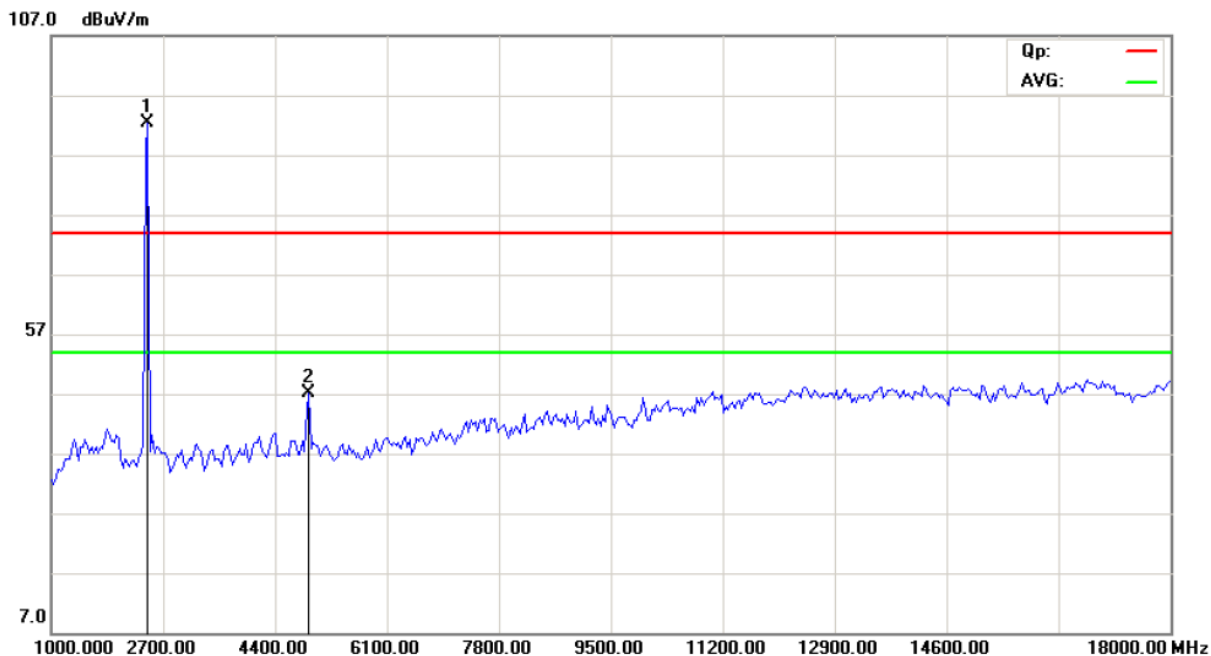


The report refers only to the sample tested and does not apply to the bulk.

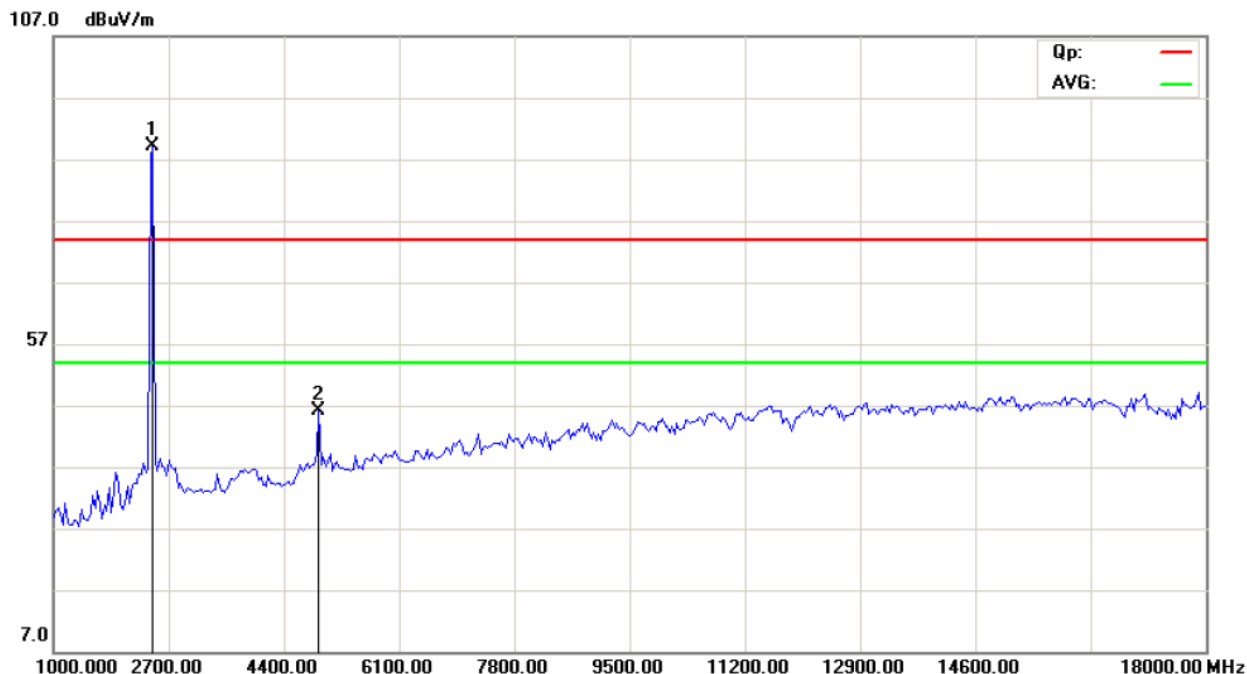
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CH11 for 11n HT20 at 65Mbps: Vertical



CH11 for 11n HT20 at 65Mbps: Horizontal

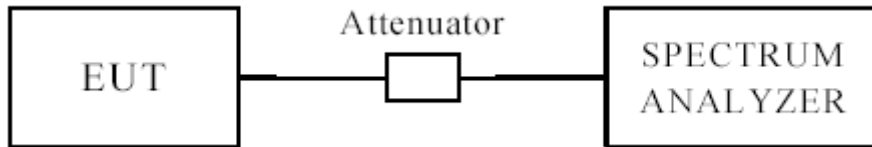


Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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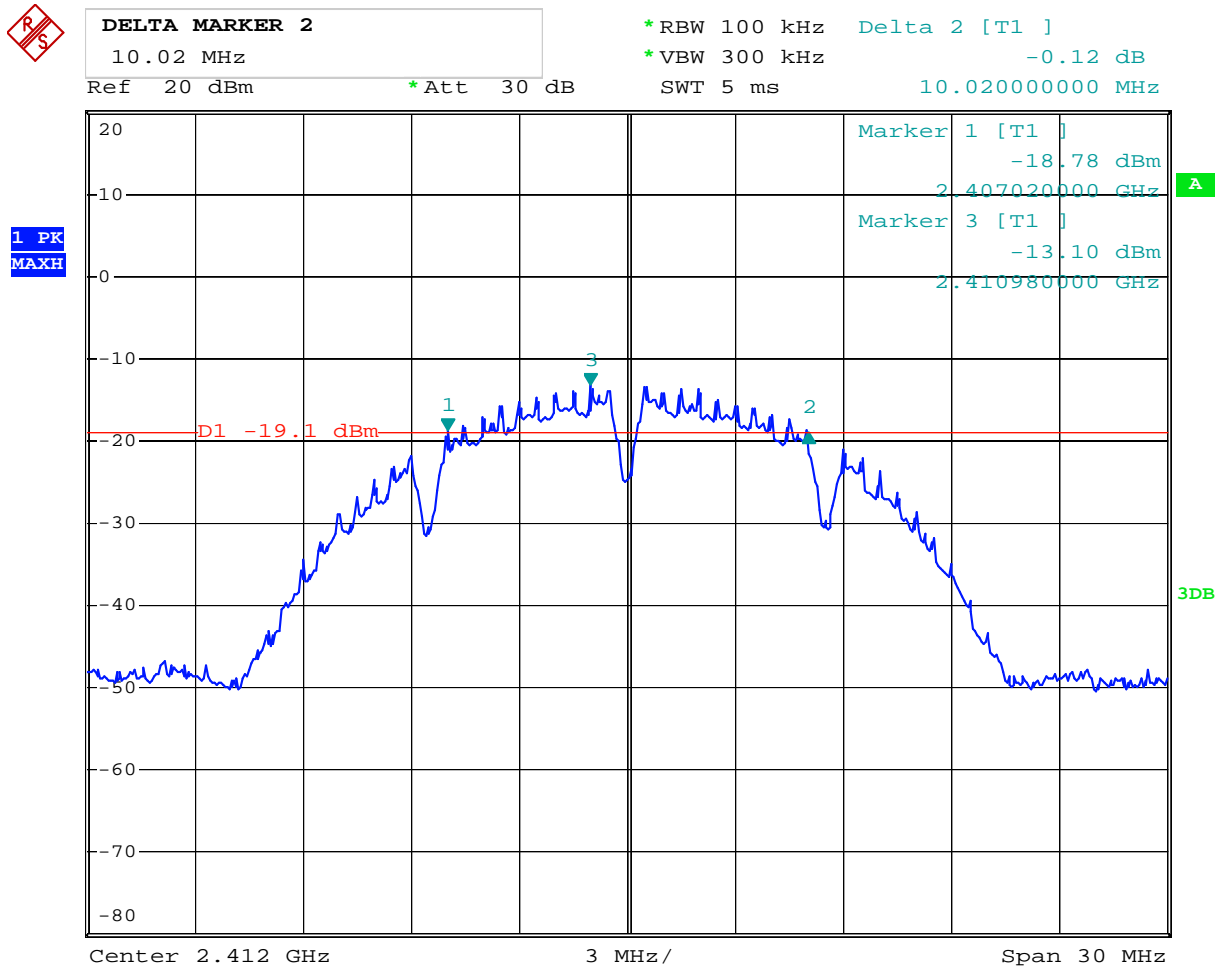
6dB Occupied Bandwidth

EUT		MID		Model	HS-7DTB12
Mode		802.11b		Input Voltage	AC 120V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	10.02	0.5	Pass
6	2437	1	10.02	0.5	Pass
11	2462	1	10.02	0.5	Pass
1	2412	11	8.64	0.5	Pass
6	2437	11	9.30	0.5	Pass
11	2462	11	8.76	0.5	Pass

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1. 802.11b at 1Mbps of CH01

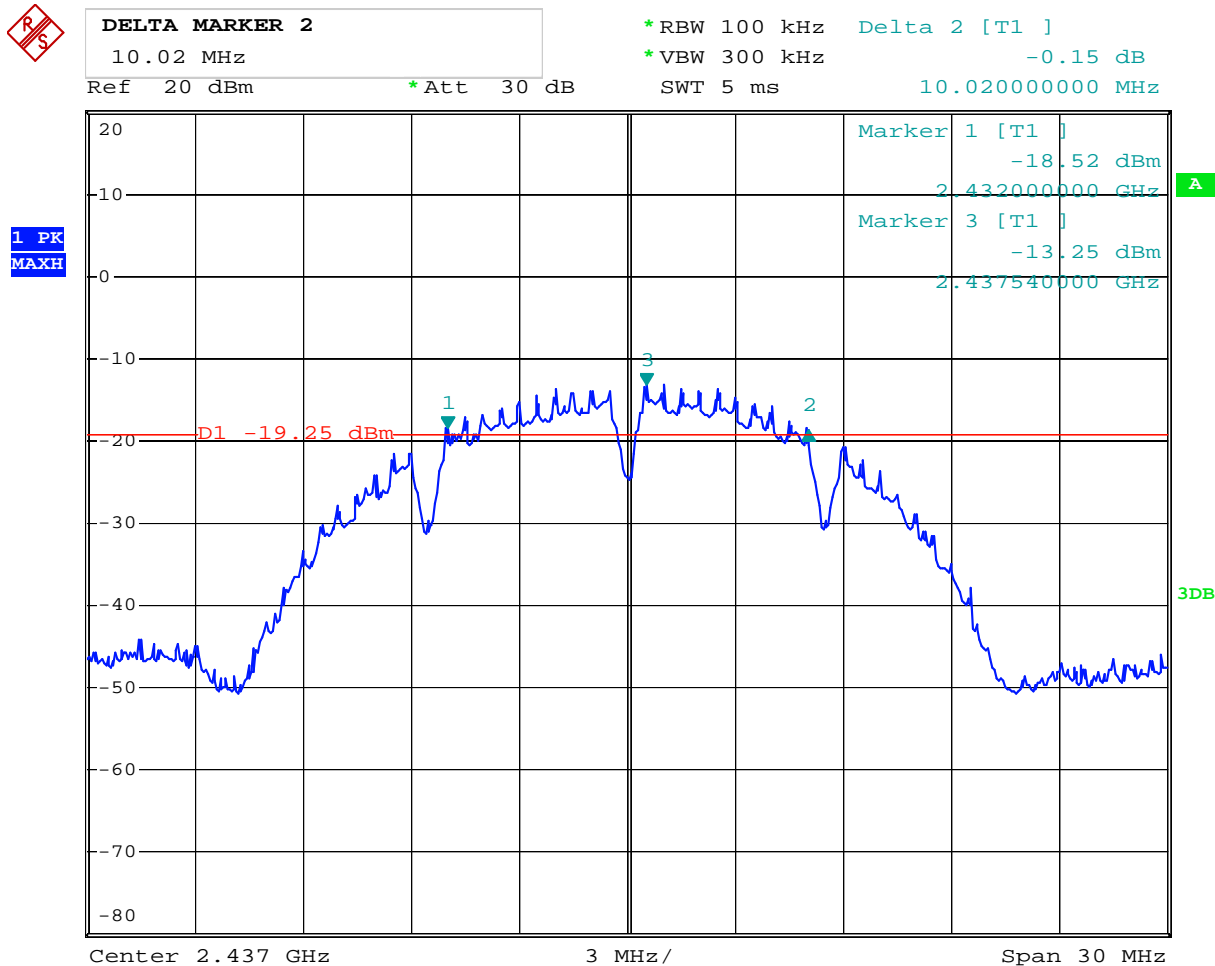


Date: 13.APR.2013 15:19:12

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2. 802.11b at 1Mbps of CH06

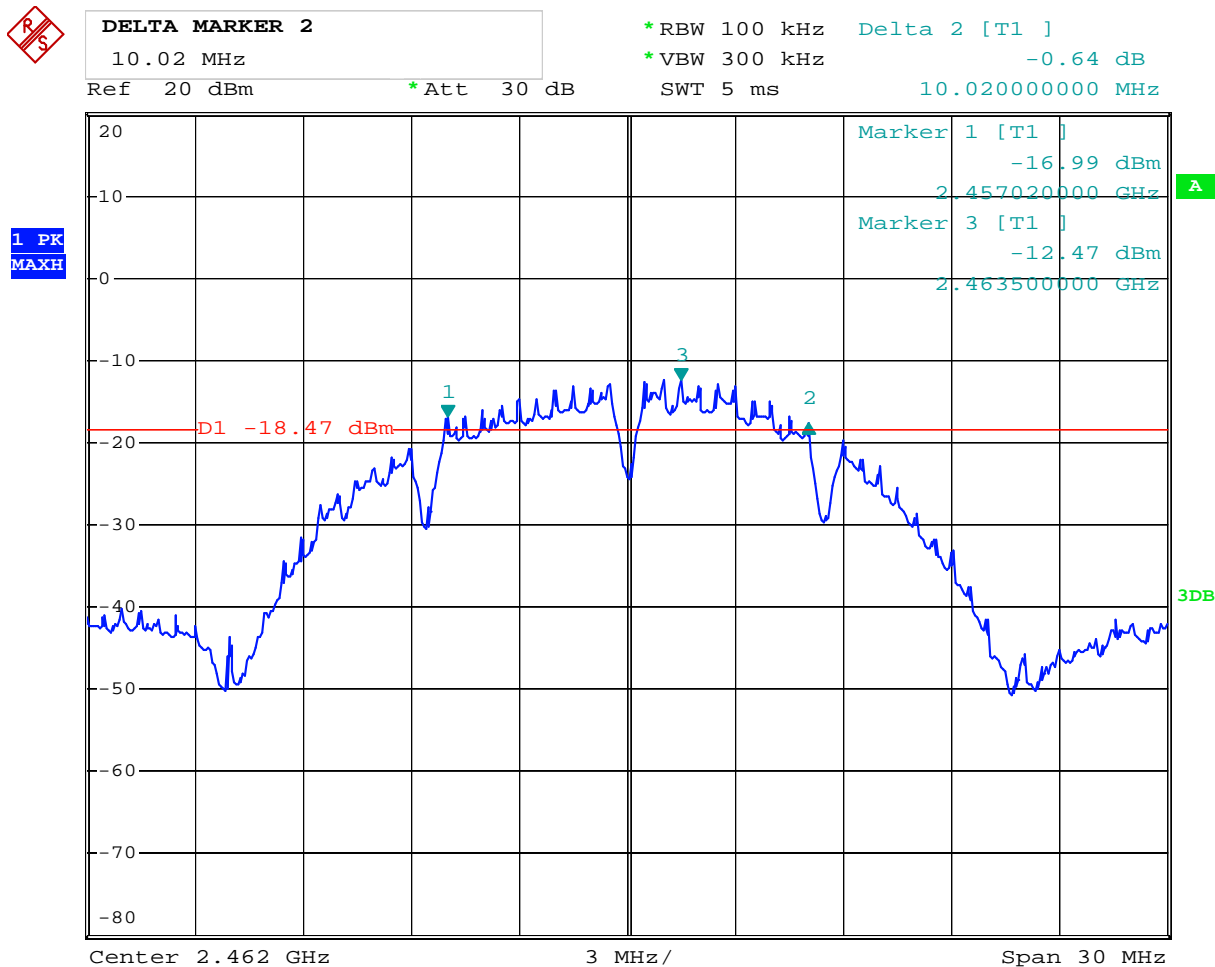


Date: 13.APR.2013 15:20:16

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3. 802.11b at 1Mbps of CH11

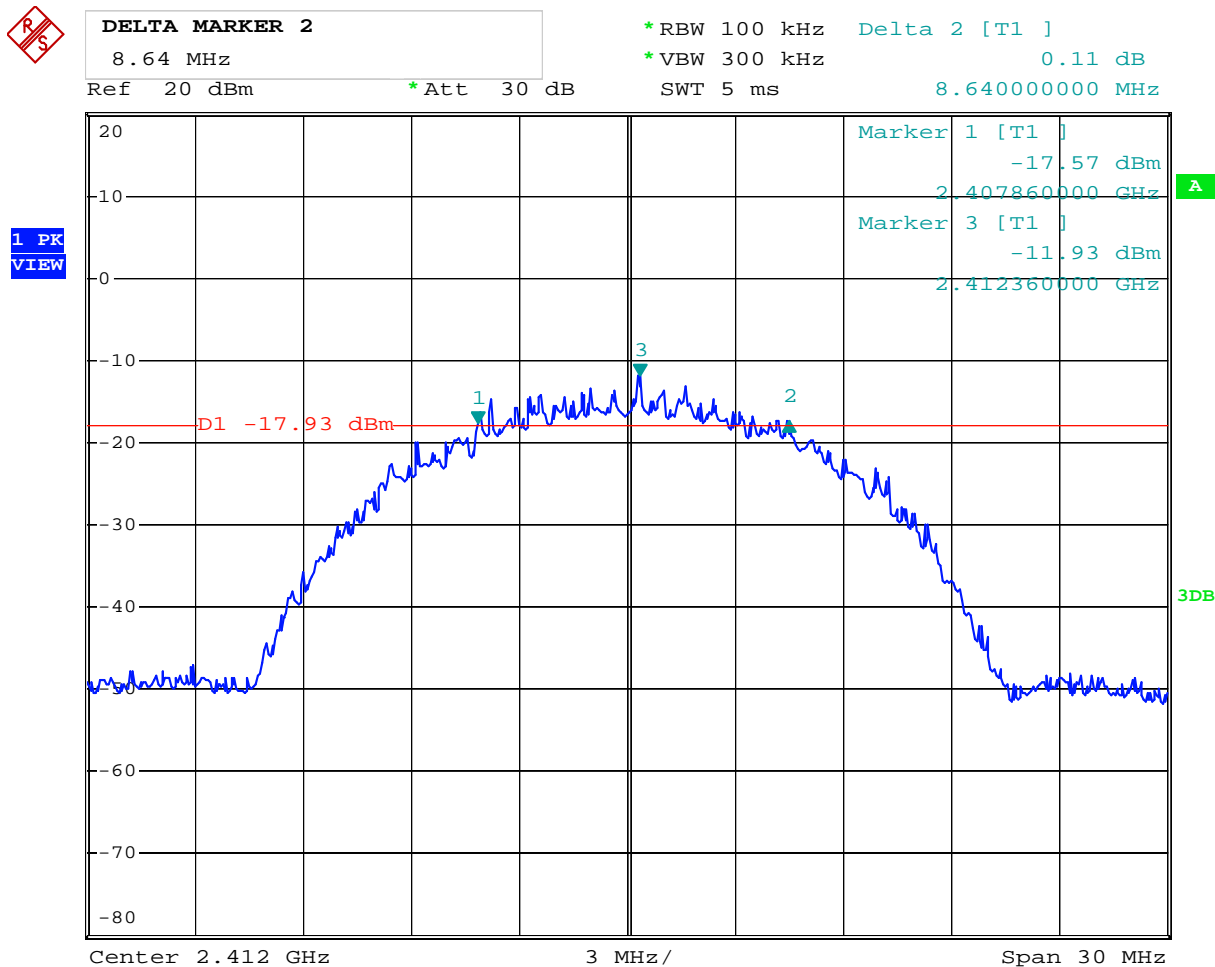


Date: 13.APR.2013 15:21:21

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4. 802.11b at 11Mbps of CH01

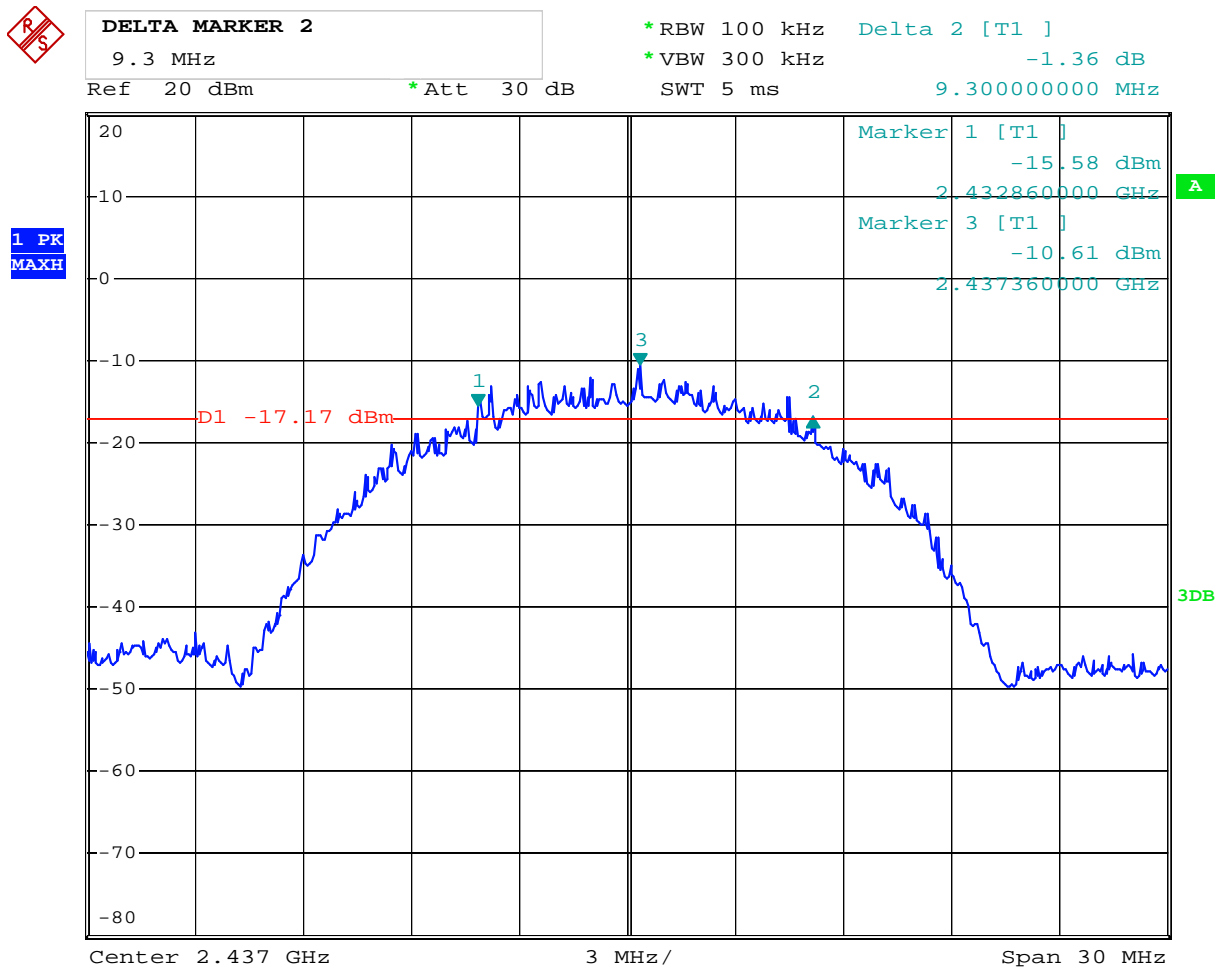


Date: 13.APR.2013 15:33:21

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5. 802.11b at 11Mbps of CH06

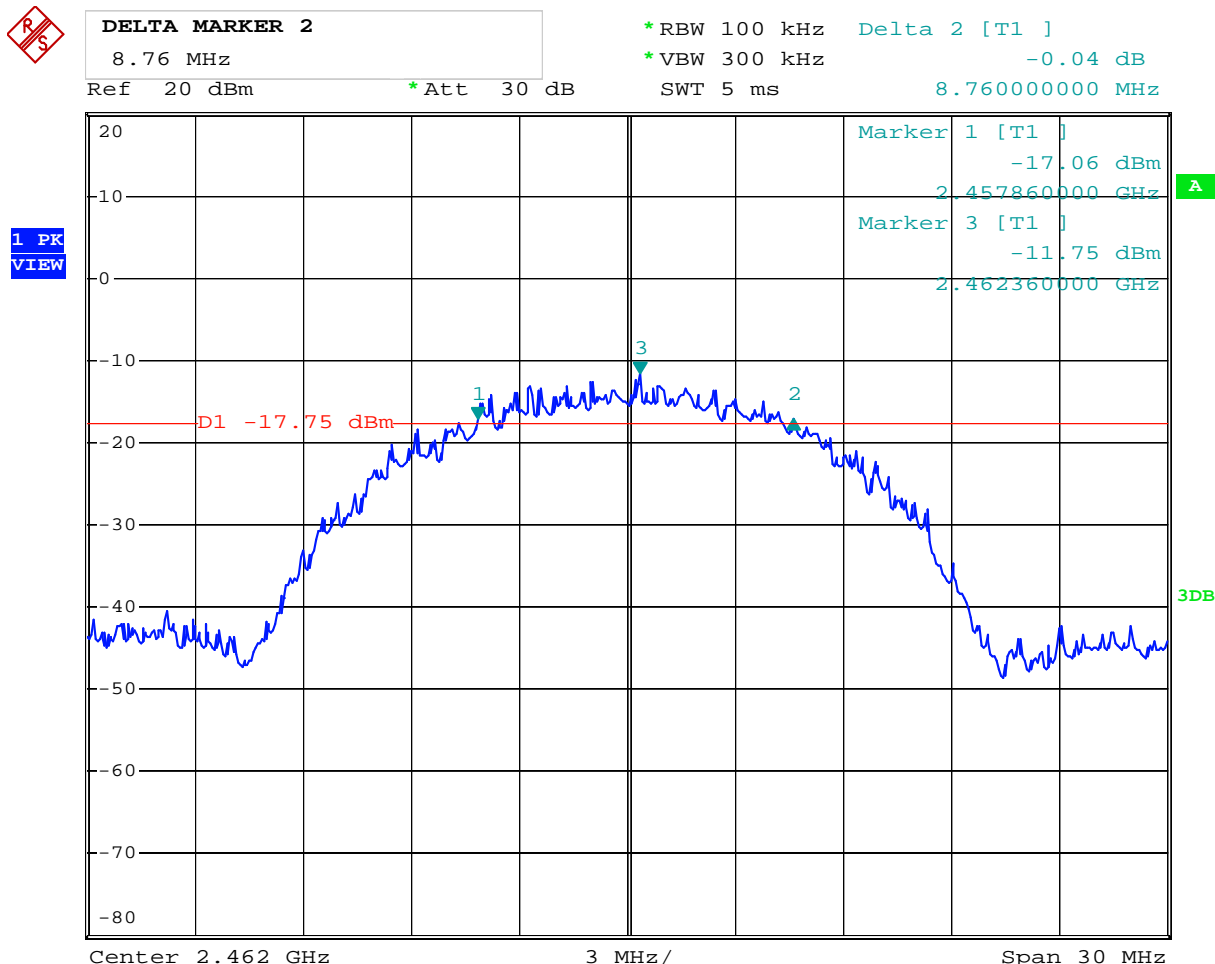


Date: 13.APR.2013 15:37:21

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6. 802.11b at 11Mbps of CH11



Date: 13.APR.2013 15:35:19

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6dB Occupied Bandwidth

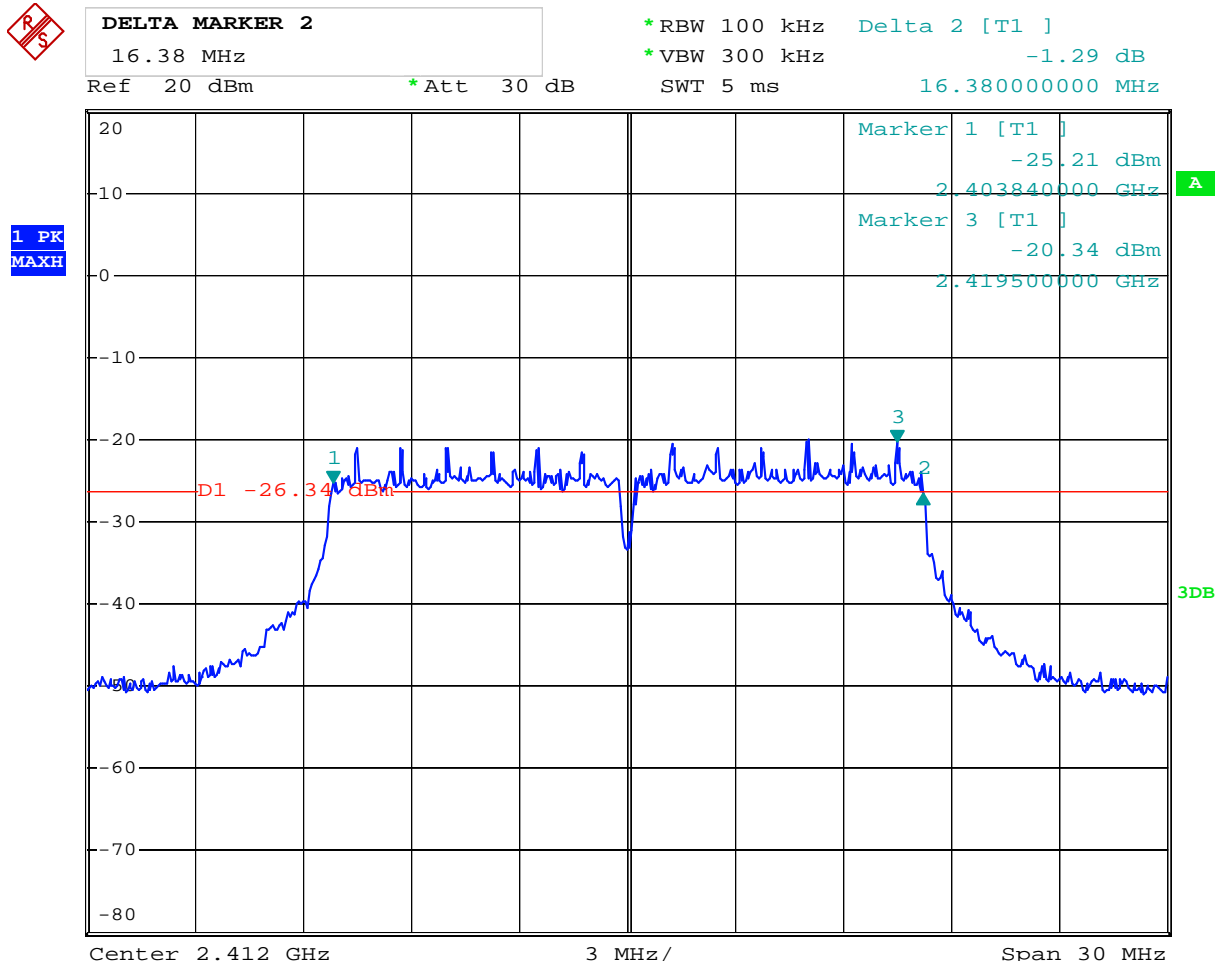
EUT		MID		Model	HS-7DTB12
Mode		802.11g		Input Voltage	AC 120V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	6	16.38	0.5	Pass
6	2437	6	16.38	0.5	Pass
11	2462	6	16.38	0.5	Pass

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Test Plots:

1. 802.11g at 6Mbps of CH01

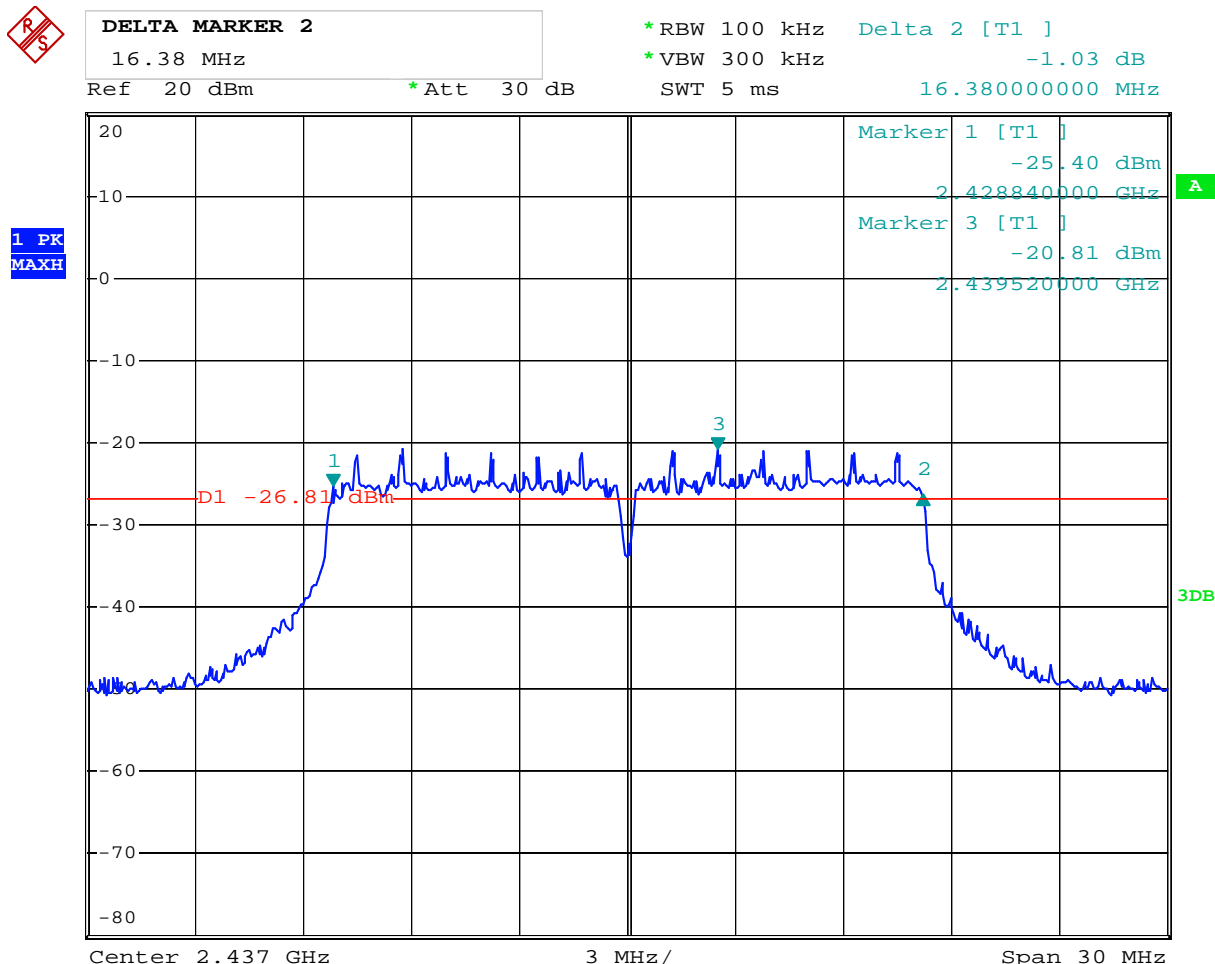


Date: 13.APR.2013 15:28:41

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2. 802.11g at 6Mbps of CH06



Date: 13.APR.2013 15:27:25

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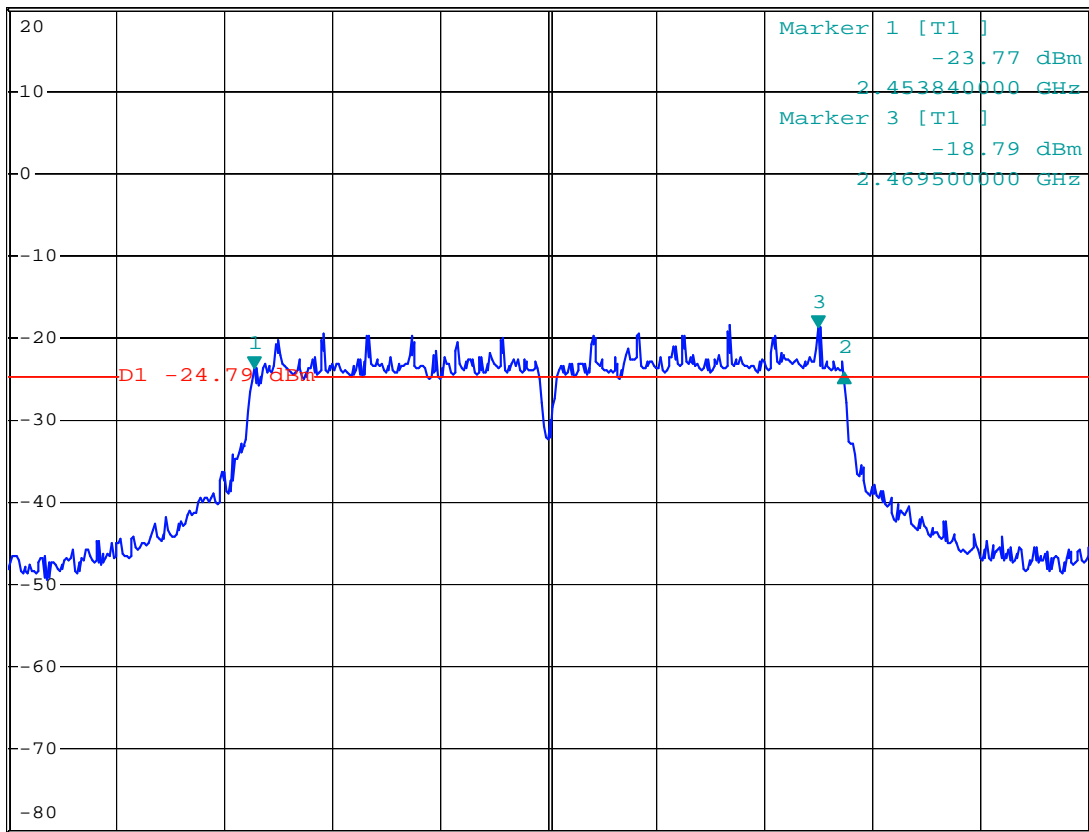
3. 802.11g at 6Mbps of CH11



DELTA MARKER 2
 16.38 MHz
 Ref 20 dBm *Att 30 dB

*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -0.40 dB
 SWT 5 ms 16.380000000 MHz

1 PK
 MAXH



Center 2.462 GHz 3 MHz/ Span 30 MHz

Date: 13.APR.2013 15:22:24

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6dB Occupied Bandwidth

EUT		MID		Model	HS-7DTB12
Mode		802.11n		Input Voltage	AC 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	HT20	17.34	0.5	Pass
6	2437	HT20	17.58	0.5	Pass
11	2462	HT20	17.58	0.5	Pass

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Test Plots:

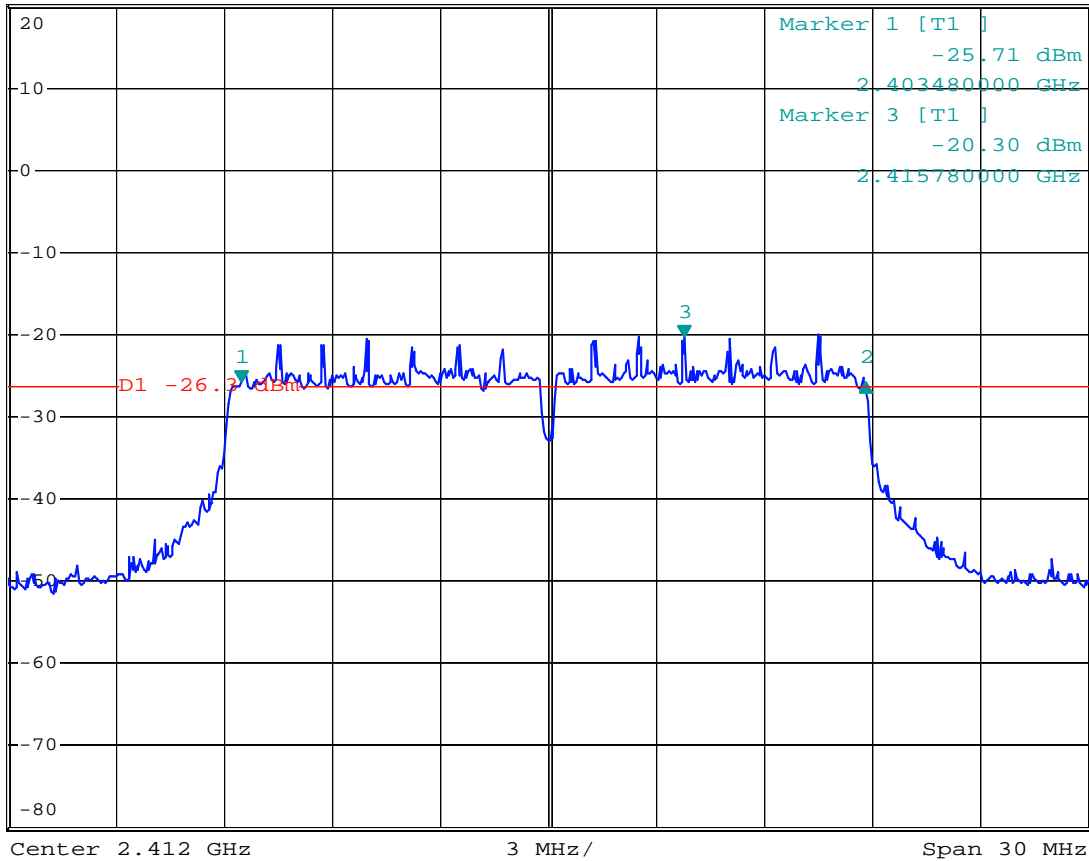
1. 802.11n at HT20 of CH01



DELTA MARKER 2
 17.34 MHz
 Ref 20 dBm *Att 30 dB

*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -0.02 dB
 SWT 5 ms 17.34000000 MHz

1 PK
 MAXH

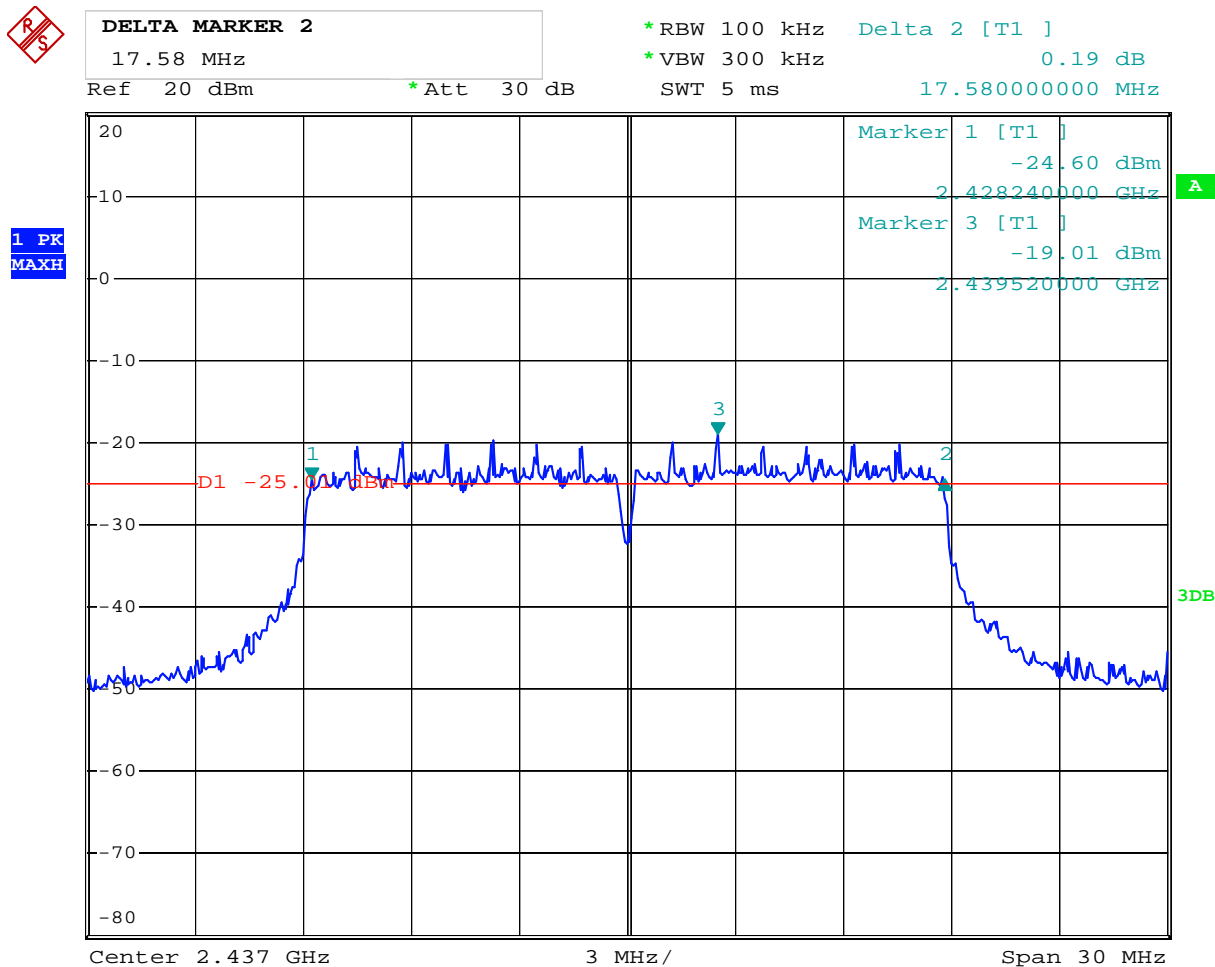


Date: 13.APR.2013 15:38:31

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2. 802.11n at HT20 of CH06



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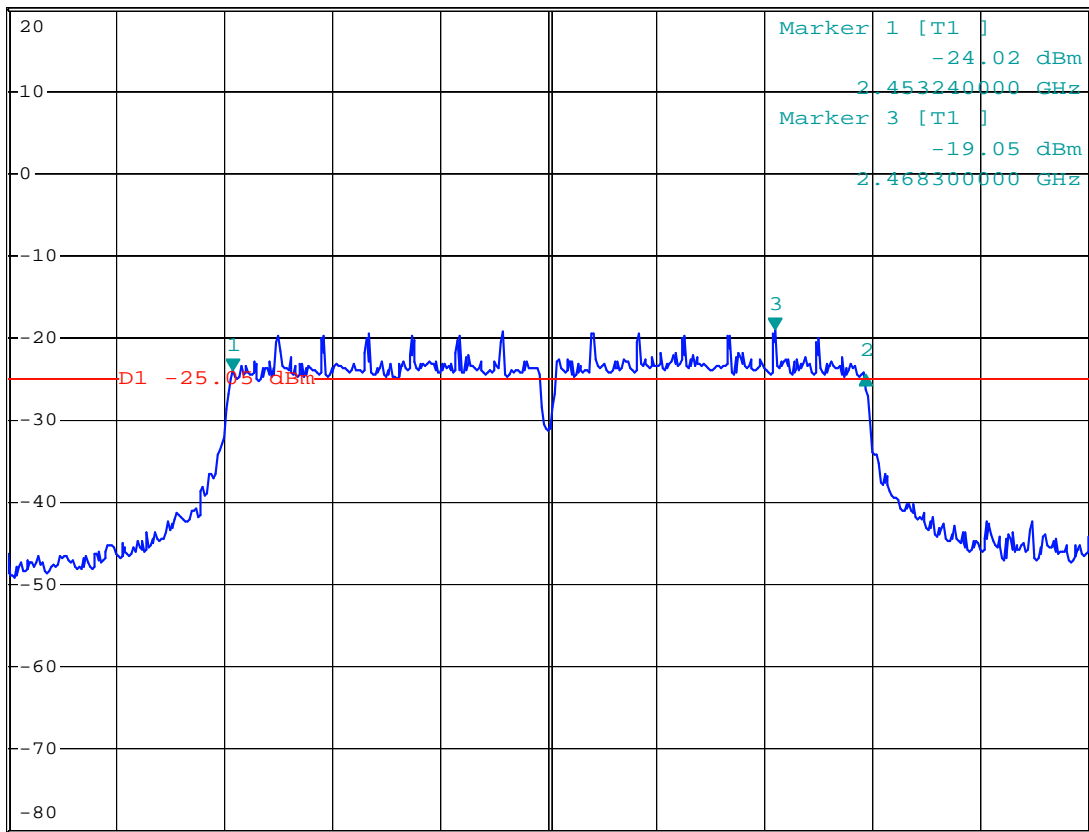
3. 802.11n at HT20 of CH11



DELTA MARKER 2
 17.58 MHz
 Ref 20 dBm *Att 30 dB

*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -0.47 dB
 SWT 5 ms 17.580000000 MHz

1 PK
 MAXH



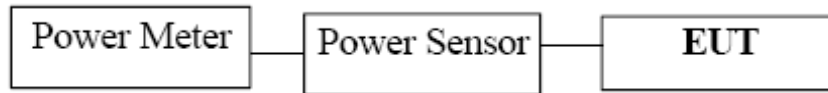
Center 2.462 GHz 3 MHz/ Span 30 MHz

Date: 13.APR.2013 15:40:34

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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.

Note: the peak power was measured

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8.4 Test Results

EUT	MID		Model	HS-7DTB12
Mode	802.11b		Input Voltage	See Below
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	0.91	30	Pass
6	2437	1.67	30	Pass
11	2462	1.70	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:
 Peak Power Output = Peak Power Reading + Cable loss + Attenuator
 3. The worse case was recorded

EUT	MID		Model	HS-7DTB12
Mode	802.11g		Input Voltage	See Below
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	0.61	30	Pass
6	2437	0.28	30	Pass
11	2462	0.89	30	Pass

- Note: 1. At final test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11
 2. The result basic equation calculation as follow:
 Peak Power Output = Peak Power Reading + Cable loss + Attenuator
 3. The worse case was recorded



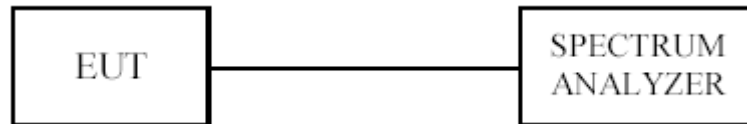
EUT	MID	Model	HS-7DTB12	
Mode	802.11n (HT20)	Input Voltage	See Below	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	0.94	30	Pass
6	2437	0.18	30	Pass
11	2462	0.38	30	Pass

- Note: 1. At final test to get the worst-case emission at 11n HT20 for CH01, CH06 and CH11
 2. The result basic equation calculation as follow:
 Peak Power Output = Peak Power Reading + Cable loss + Attenuator
 3. The worse case was recorded

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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

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW \geq 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be \leq 8 dBm.

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9.4 Test Result

EUT	MID		Model	HS-7DTB12	
Mode	802.11b 11Mbps		Input Voltage	AC 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	
11Mbps					
1	2412	-24.23	8	Pass	
6	2437	-21.33	8	Pass	
11	2462	-25.29	8	Pass	

EUT	MID		Model	HS-7DTB12	
Mode	802.11b 1Mbps		Input Voltage	AC 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	
1Mbps					
1	2412	-24.53	8	Pass	
6	2437	-21.21	8	Pass	
11	2462	-24.53	8	Pass	

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EUT	MID		Model	HS-7DTB12
Mode	802.11g 6Mbps		Input Voltage	AC 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
6Mbps				
1	2412	-30.63	8	Pass
6	2437	-29.79	8	Pass
11	2462	-29.70	8	Pass

EUT	MID		Model	HS-7DTB12
Mode	802.11n HT20		Input Voltage	AC 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
HT20				
1	2412	-30.86	8	Pass
6	2437	-29.95	8	Pass
11	2462	-28.67	8	Pass

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9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -24.23 dBm
SWT 120 ms 2.412960000 GHz

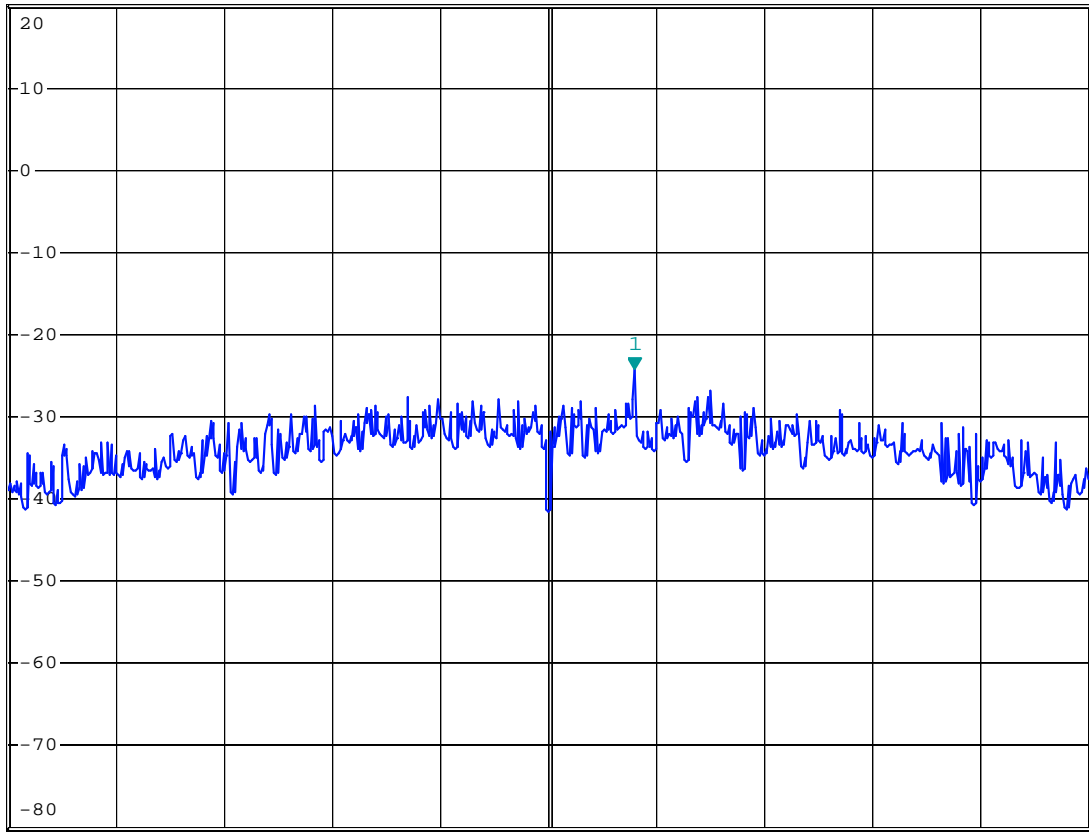
Ref 20 dBm

*Att 30 dB

SWT 120 ms

2.412960000 GHz

1 PK
VIEW



Center 2.412 GHz

1.2 MHz/

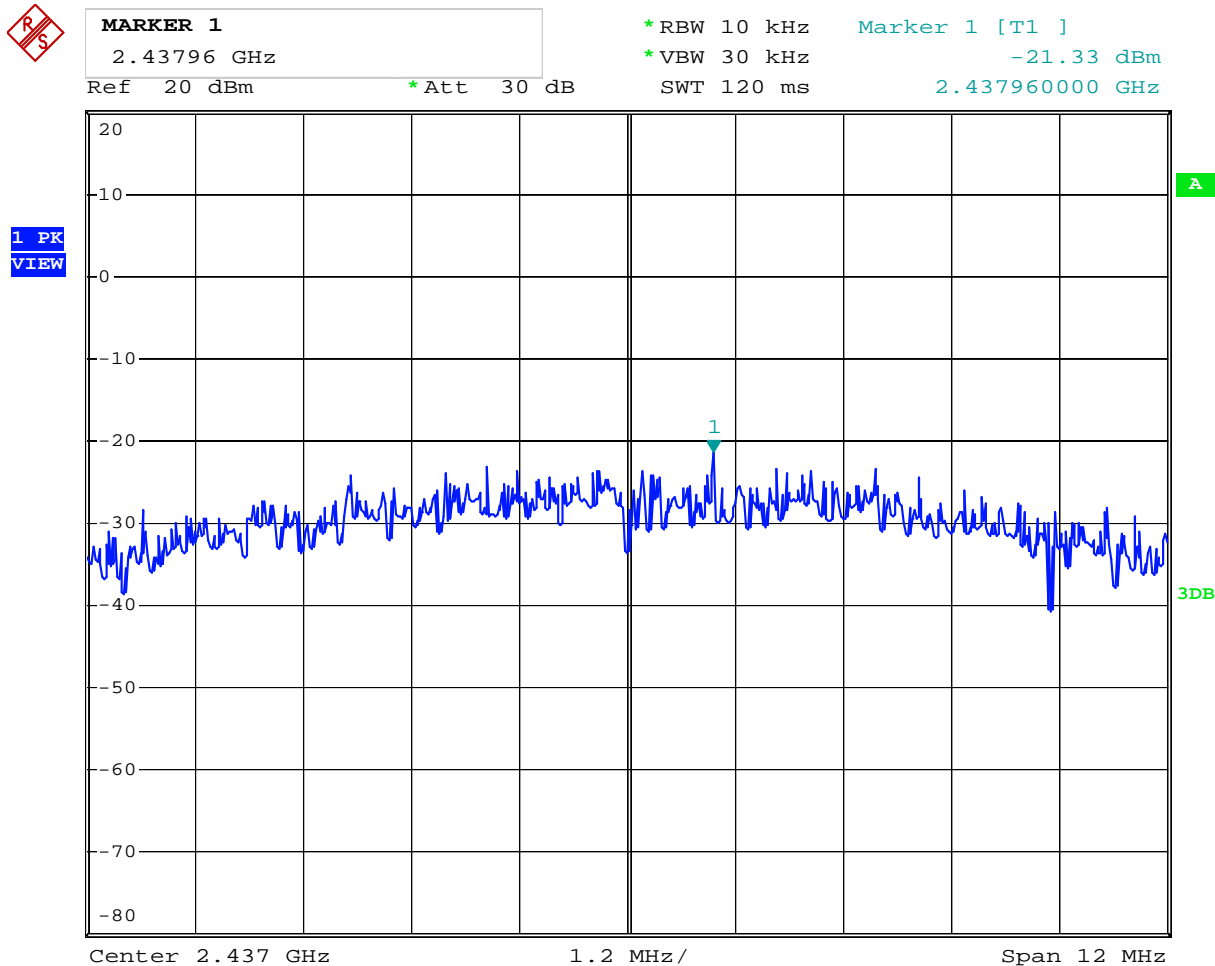
Span 12 MHz

Date: 13.APR.2013 15:46:55

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2. 802.11b at 11Mbps at CH06

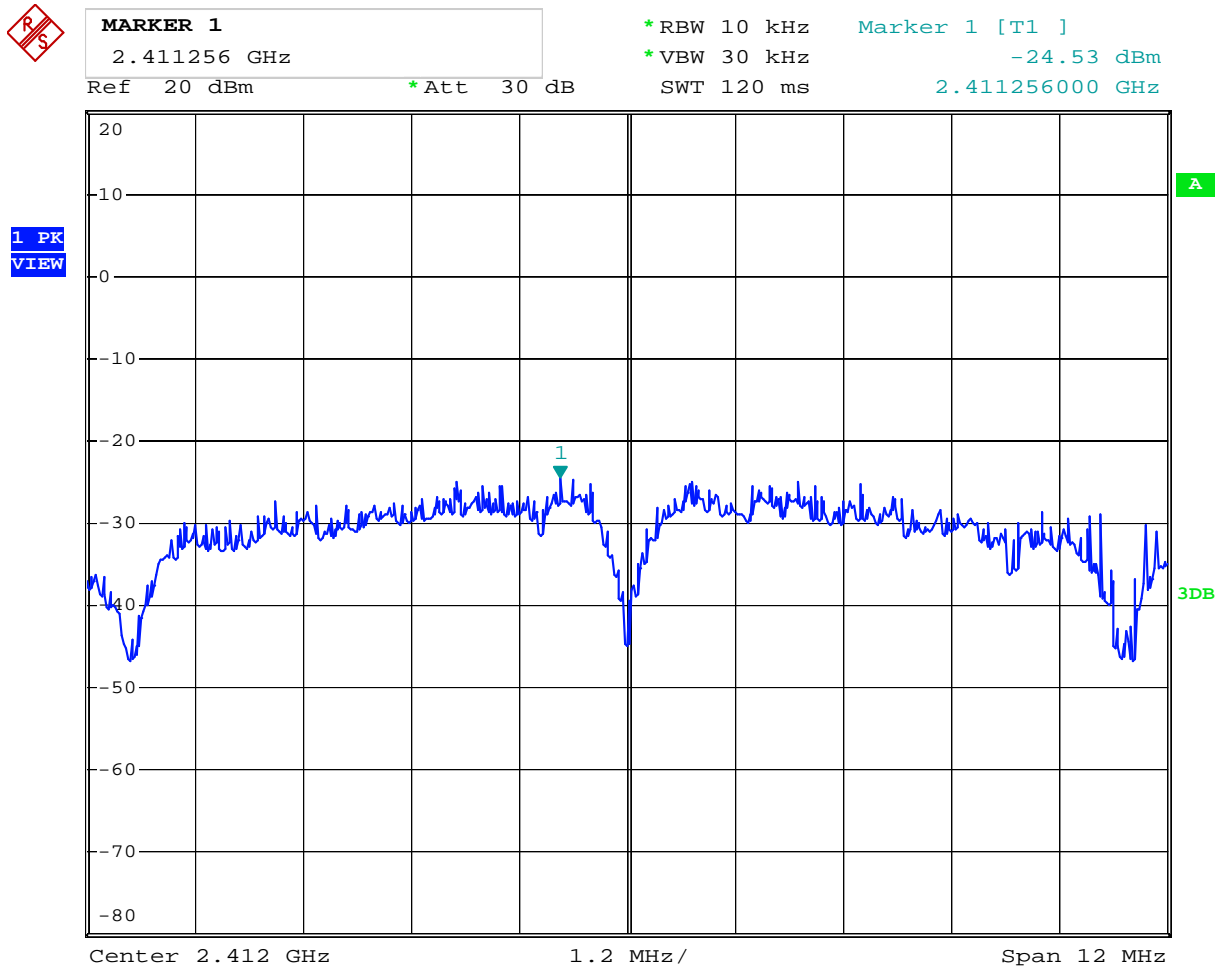


Date: 13.APR.2013 15:47:17

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4. 802.11b at 1Mbps of CH1

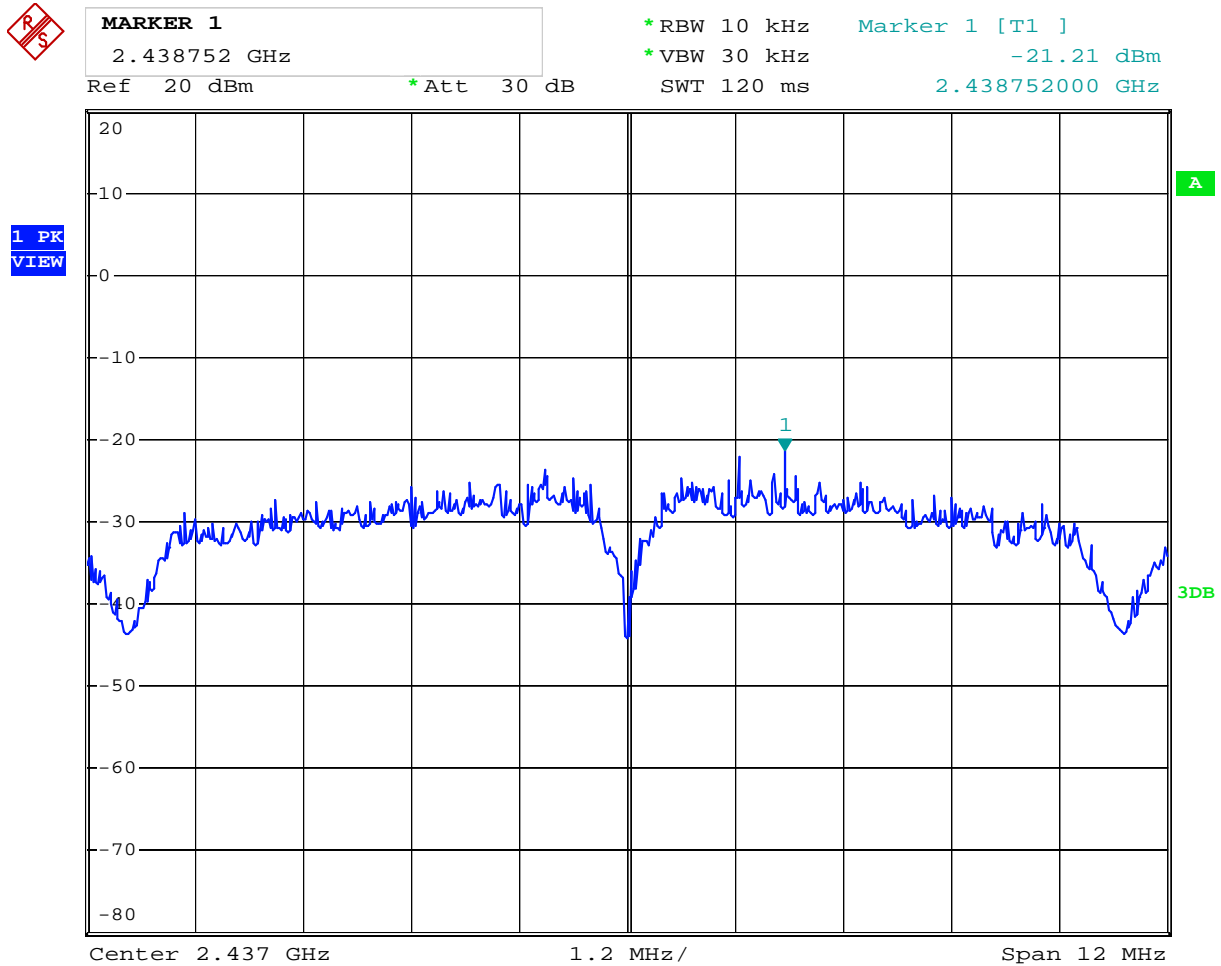


Date: 13.APR.2013 15:46:12

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5. 802.11b at 1Mbps of CH6

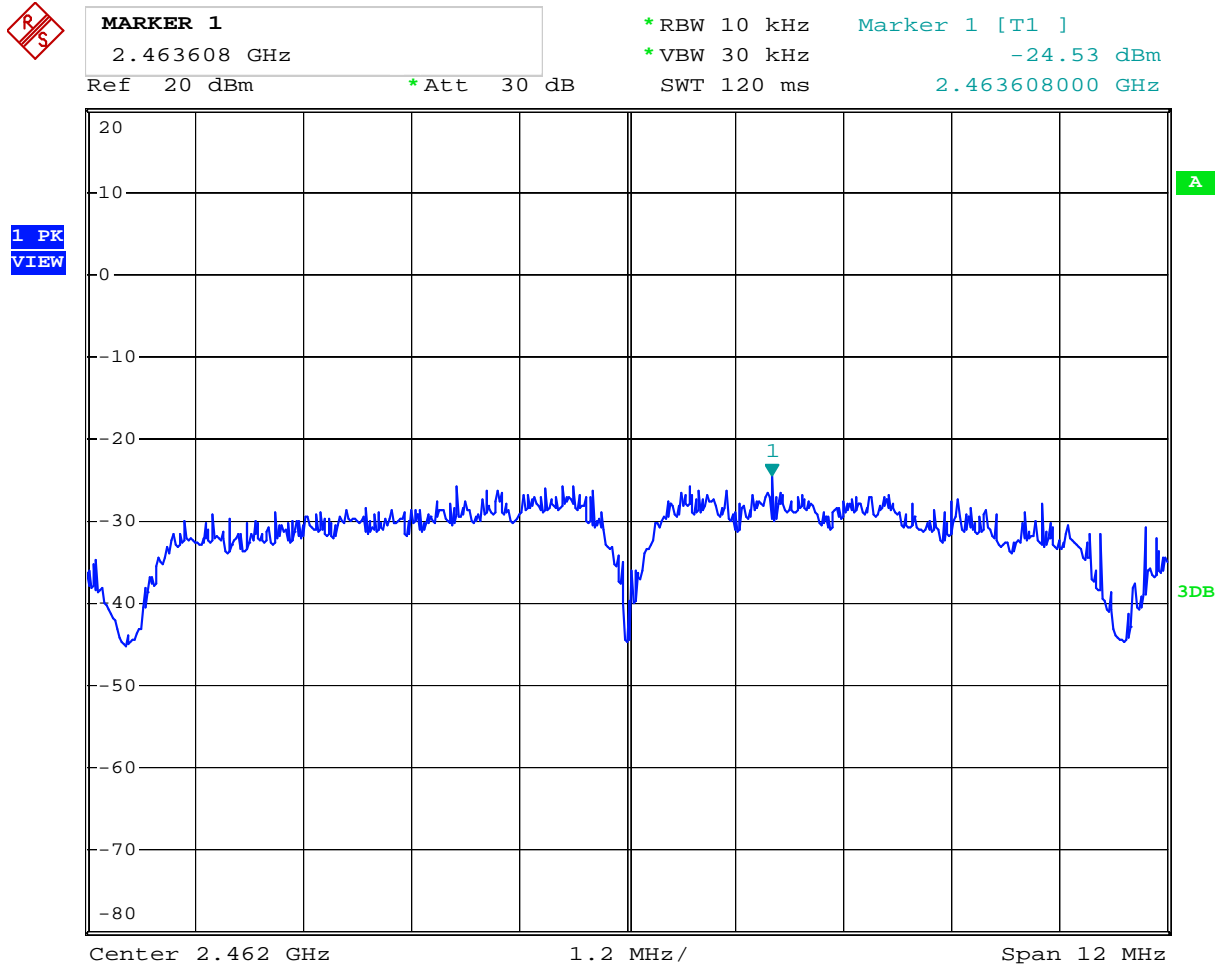


Date: 13.APR.2013 15:45:18

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6. 802.11b at 1Mbps of CH11

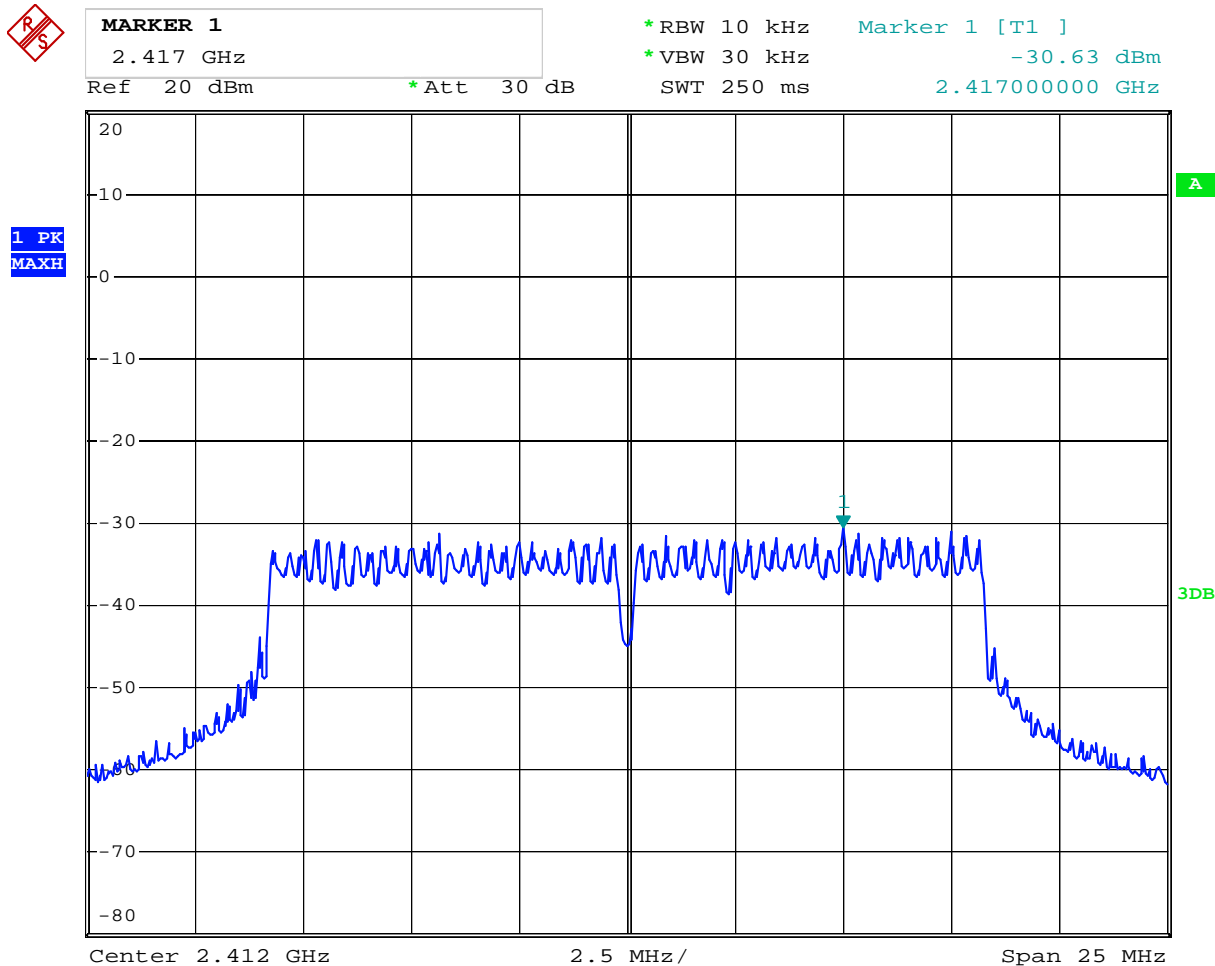


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7. 802.11g at 6Mbps of CH1

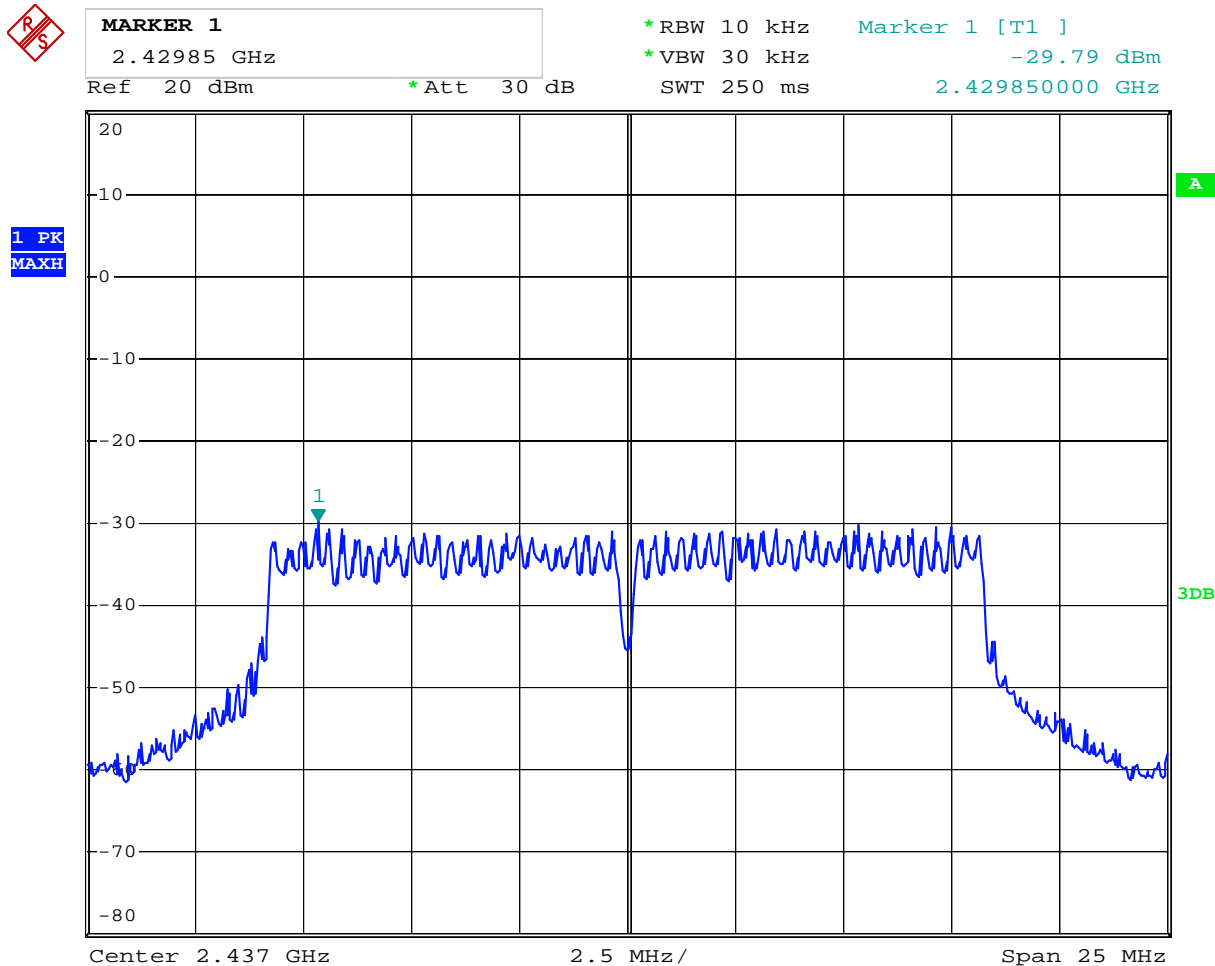


Date: 13.APR.2013 15:42:47

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8. 802.11g at 6 Mbps of CH6

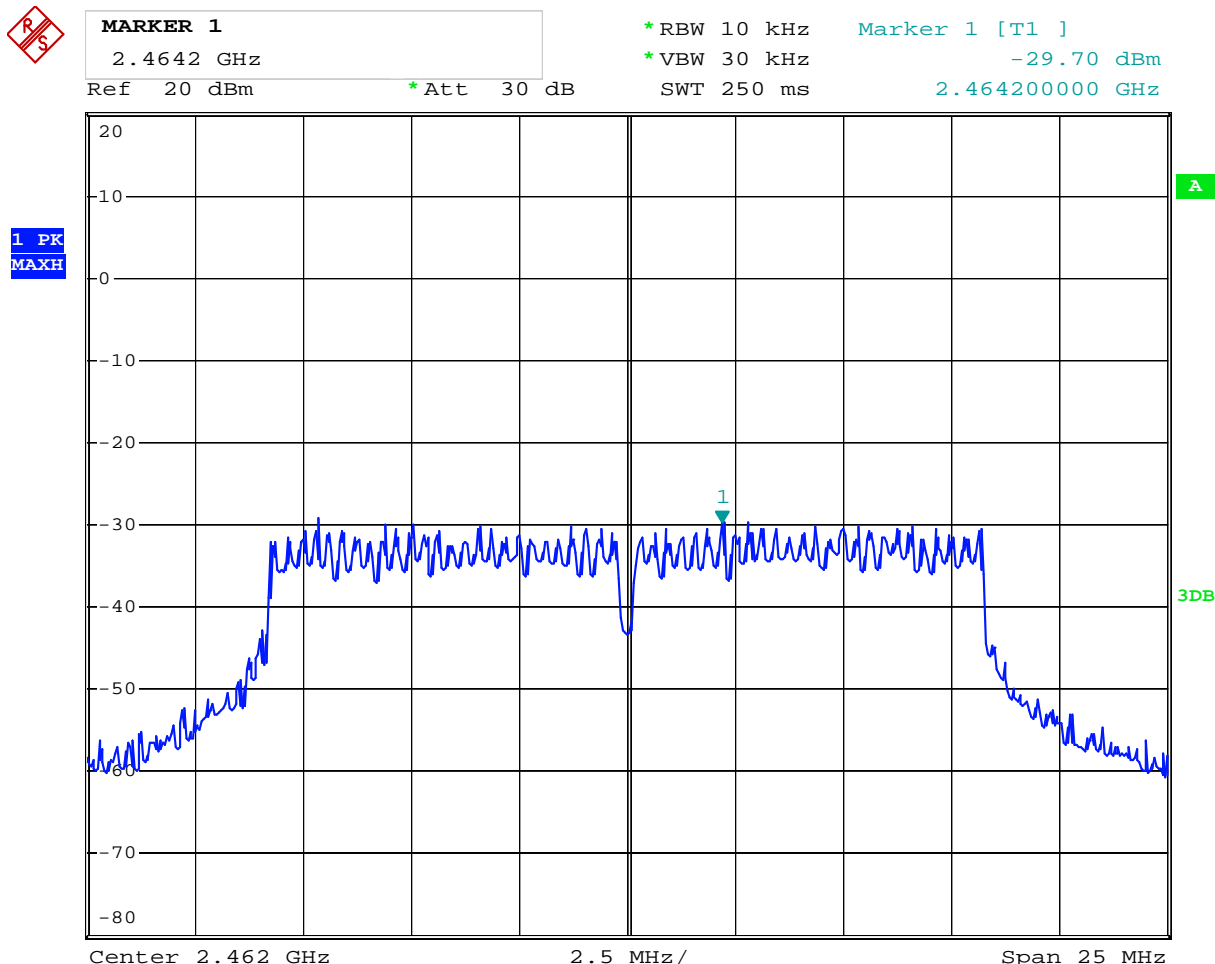


Date: 13.APR.2013 15:43:15

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9. 802.11g at 6 Mbps of CH11

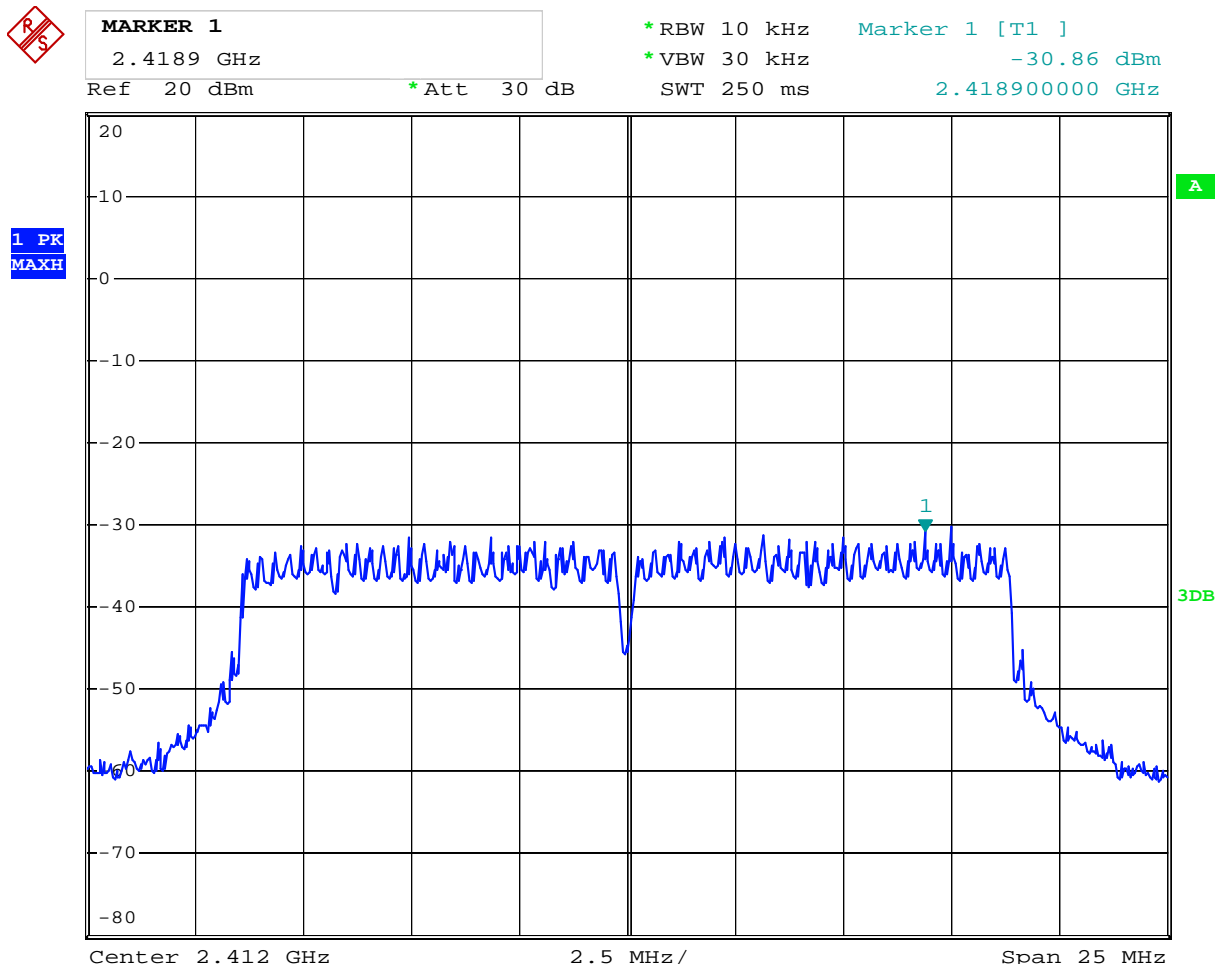


Date: 13.APR.2013 15:43:37

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10. 802.11n at HT20 of CH01

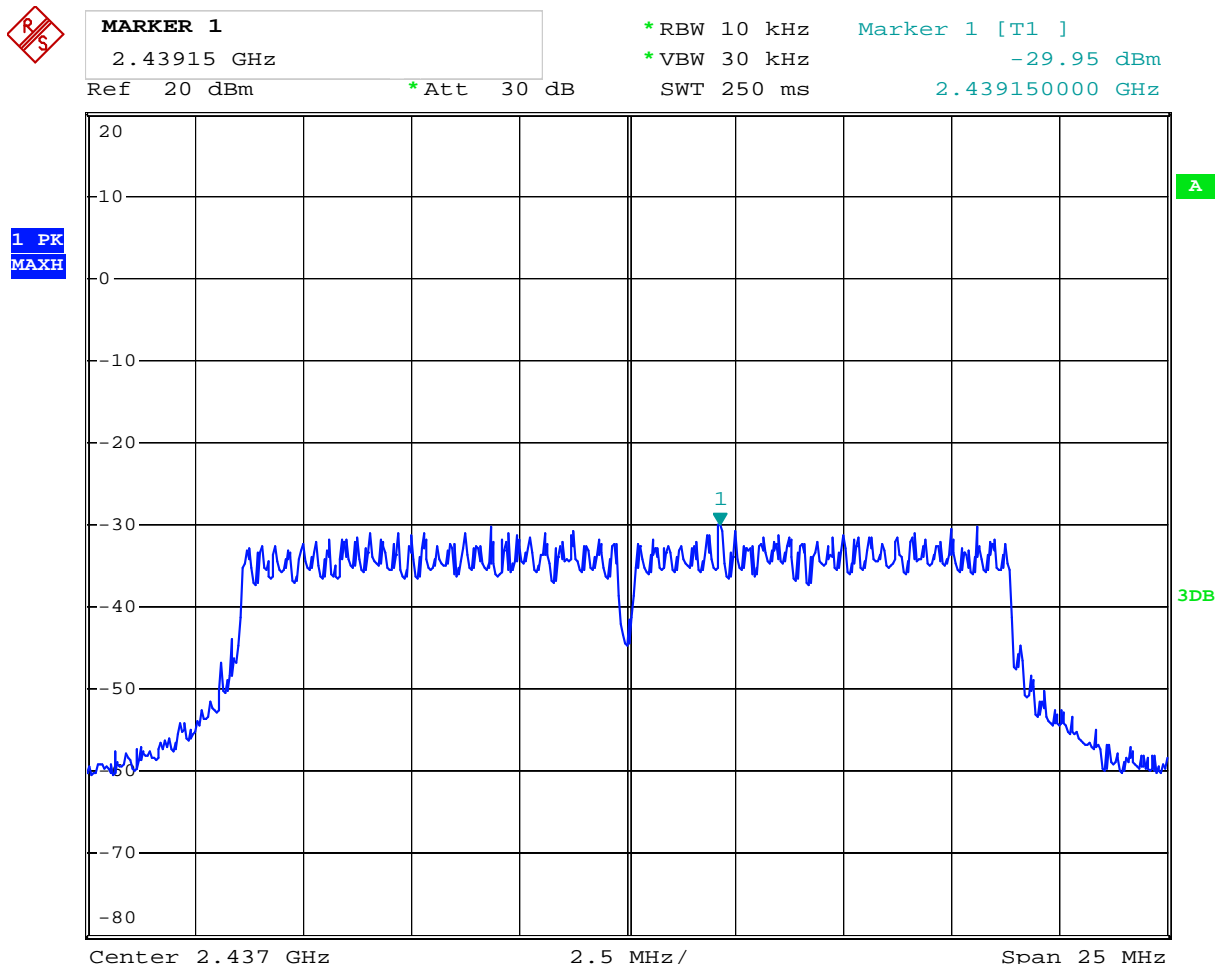


Date: 13.APR.2013 15:42:09

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11. 802.11n at HT20 of CH06

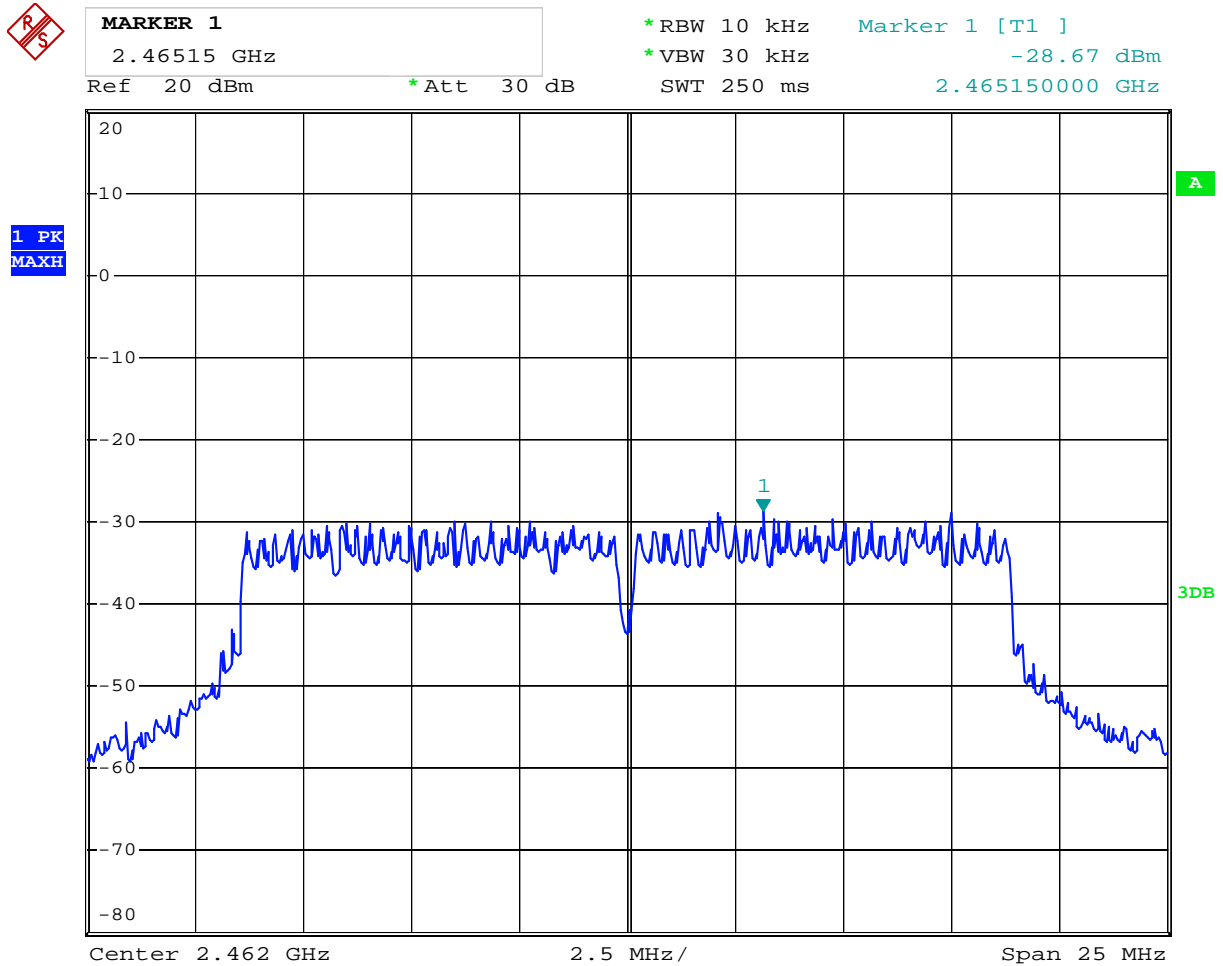


Date: 13.APR.2013 15:41:40

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12. 802.11n at HT20 of CH11

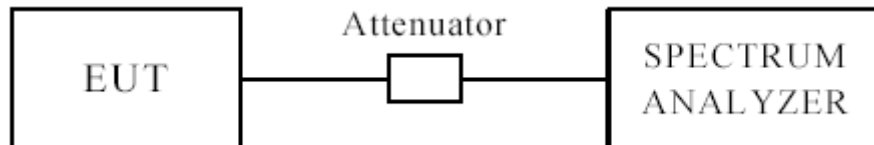


Date: 13.APR.2013 15:41:07

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10 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 -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

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

Note: 1. this is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), after pre-test. It was found that the worse radiated emission was get at the lying position. the worse case was recorded

2. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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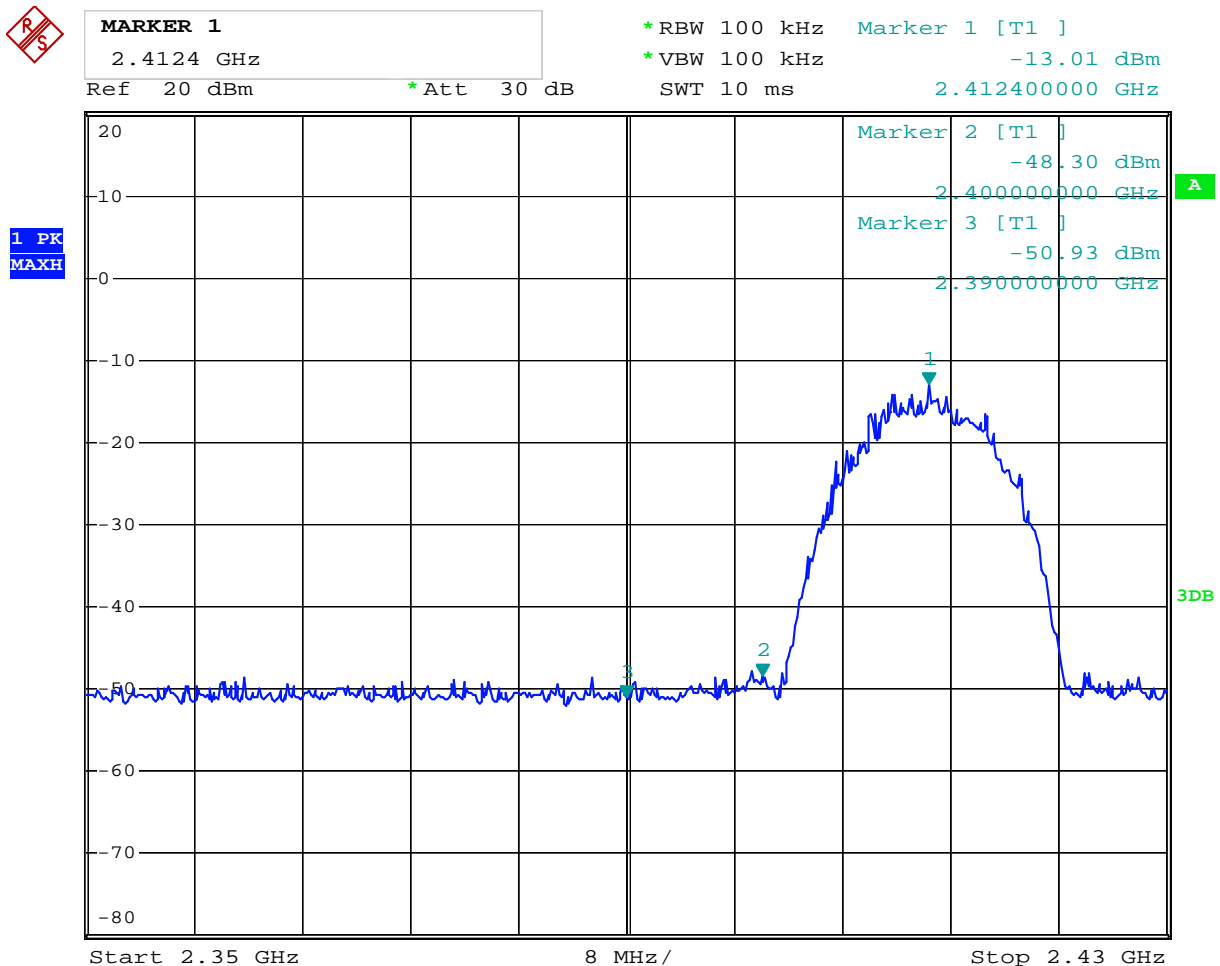
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge and Restricted band Measurement

EUT	MID		Model	HS-7DTB12
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	43.22	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390	PK (dBμV/m)	38.08	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 13.APR.2013 15:49:13

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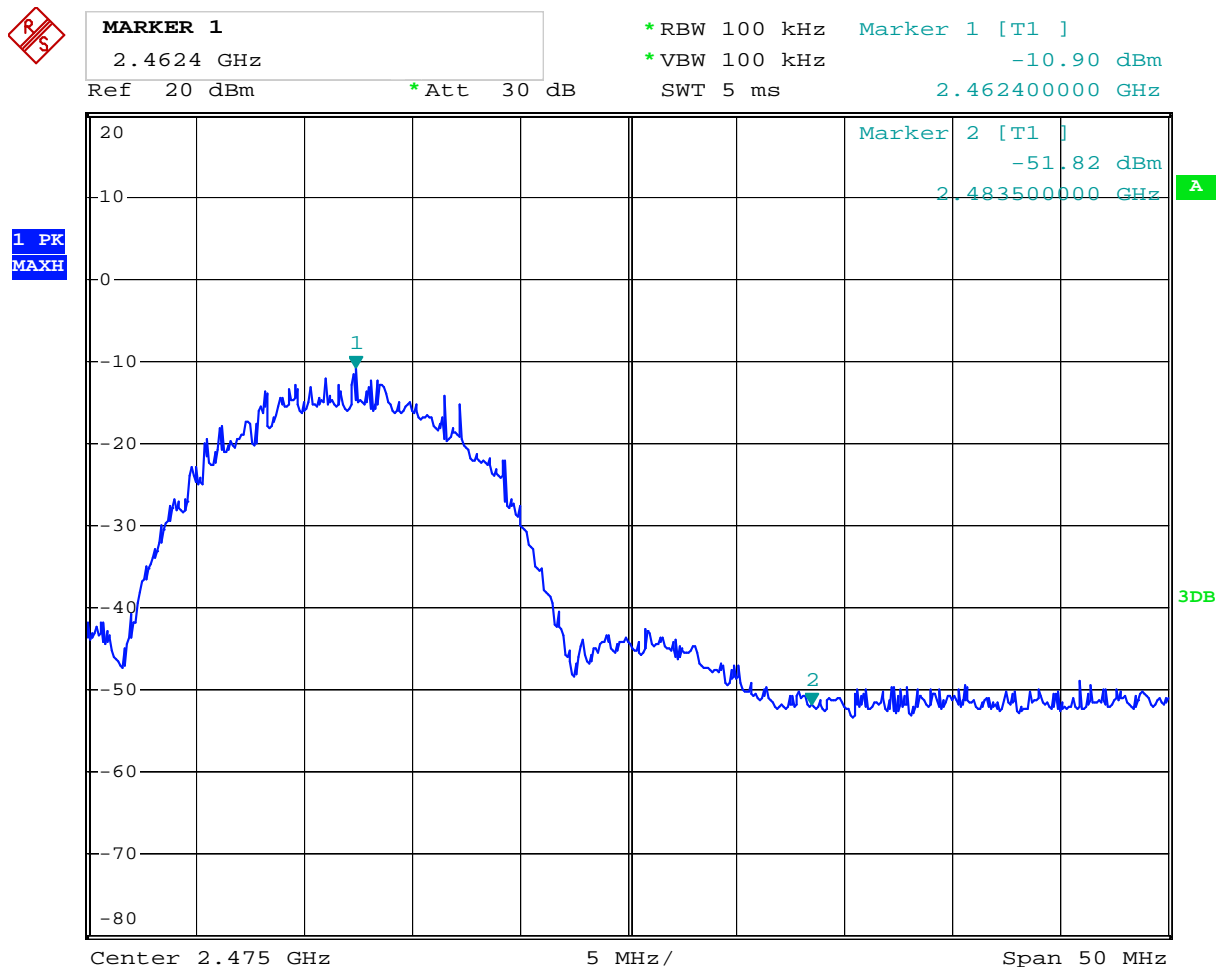


Note: The Max. FS in Restrict Band are measured in conventional method.
CH11 at 11Mbps

10.4 Band-edge and Restricted band Measurement

EUT	MID		Model	HS-7DTB12
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	41.68	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 13.APR.2013 15:54:41

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

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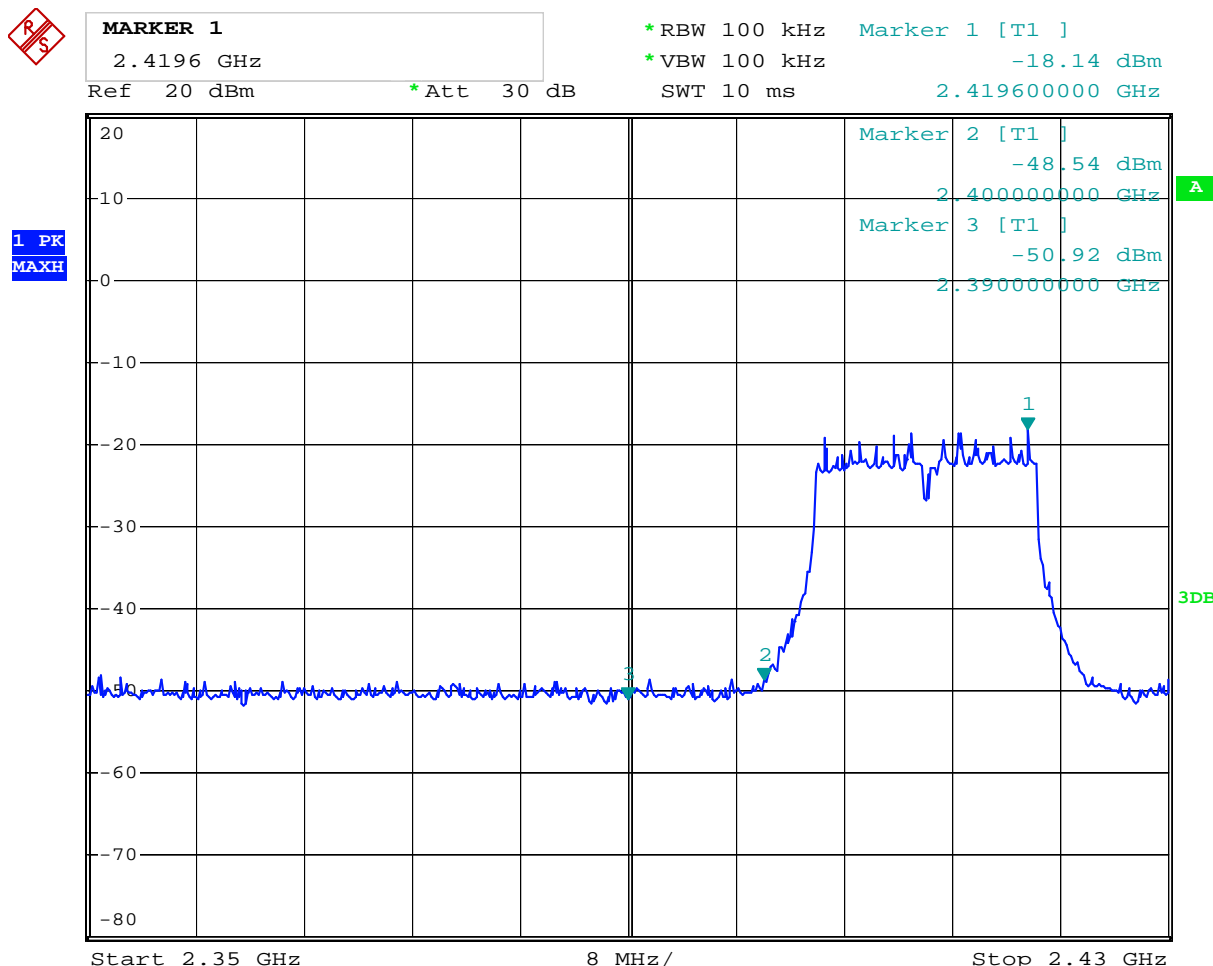


For 802.11g mode
CH01 at 6Mbps

10.4 Band-edge and Restricted band Measurement

EUT	MID		Model	HS-7DTB12
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	43.08	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390	PK (dBμV/m)	39.16	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 13.APR.2013 15:50:09

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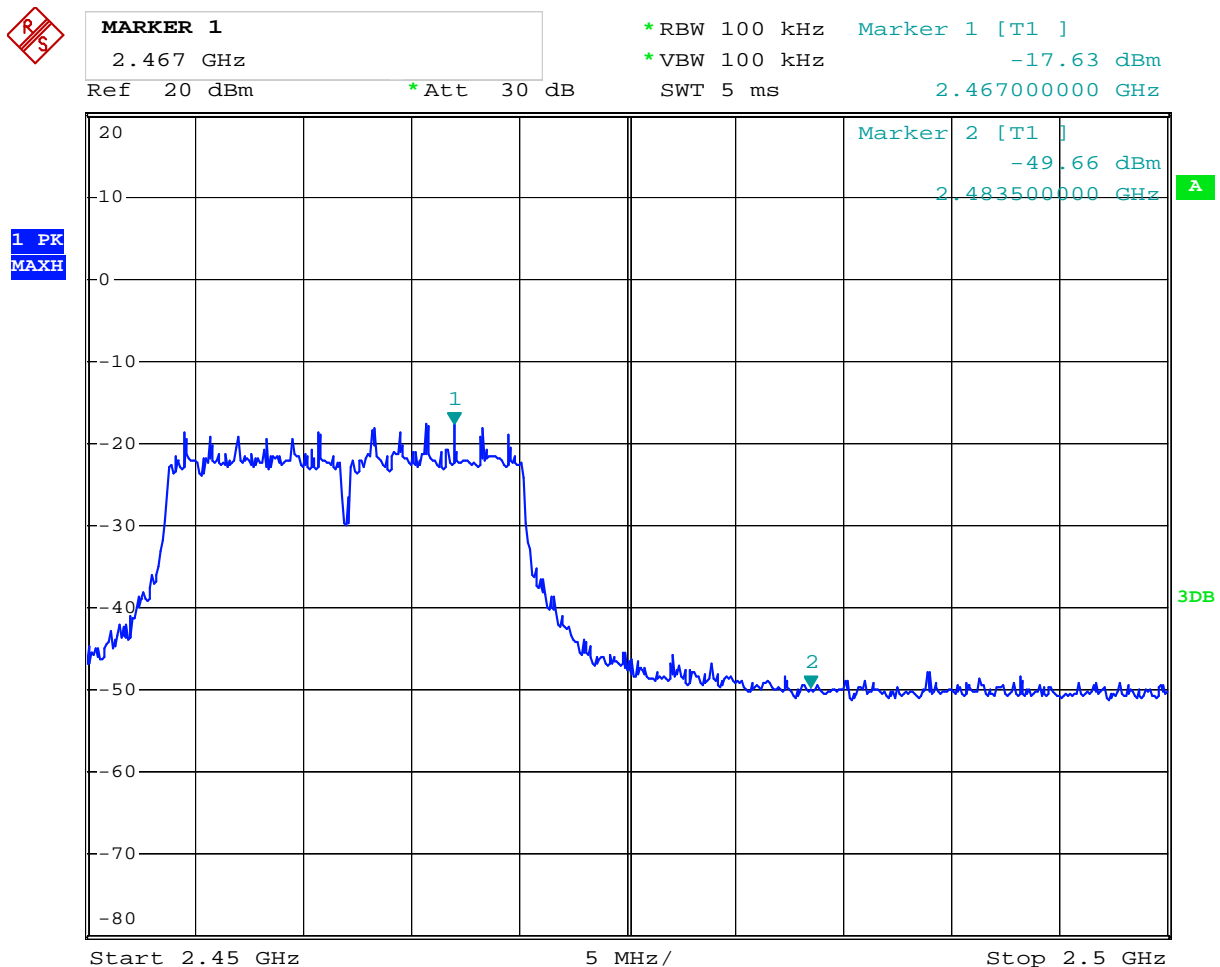


Note: The Max. FS in Restrict Band are measured in conventional method.
CH11 at 6Mbps

10.4 Band-edge and Restricted band Measurement

EUT	MID		Model	HS-7DTB12
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	41.77	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 13.APR.2013 15:54:04

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

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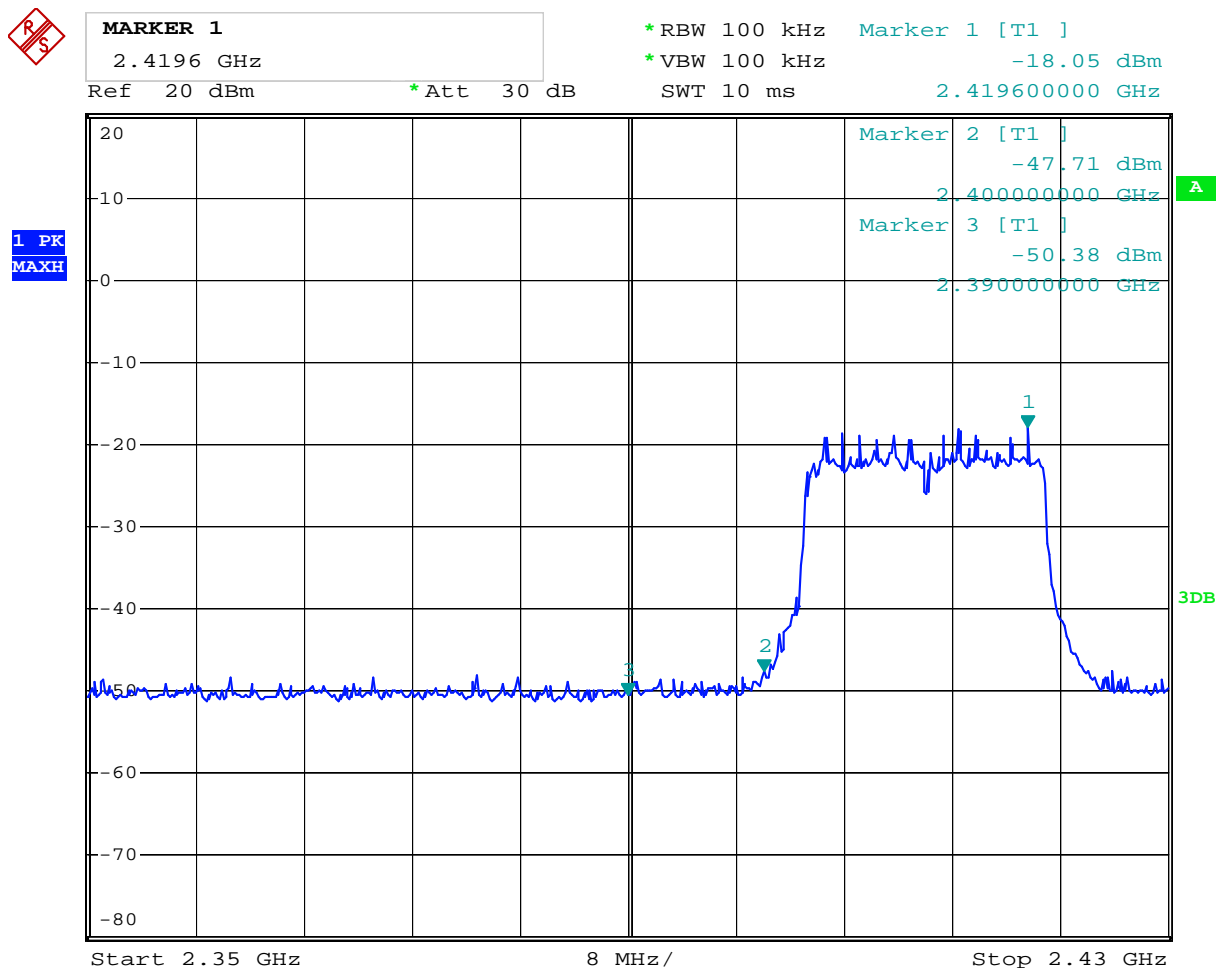
For 802.11n (HT20) mode

CH01 at 65Mbps

10.4 Band-edge and Restricted band Measurement

EUT	MID		Model	HS-7DTB12
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	43.58	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390	PK (dBμV/m)	39.61	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 13.APR.2013 15:51:35

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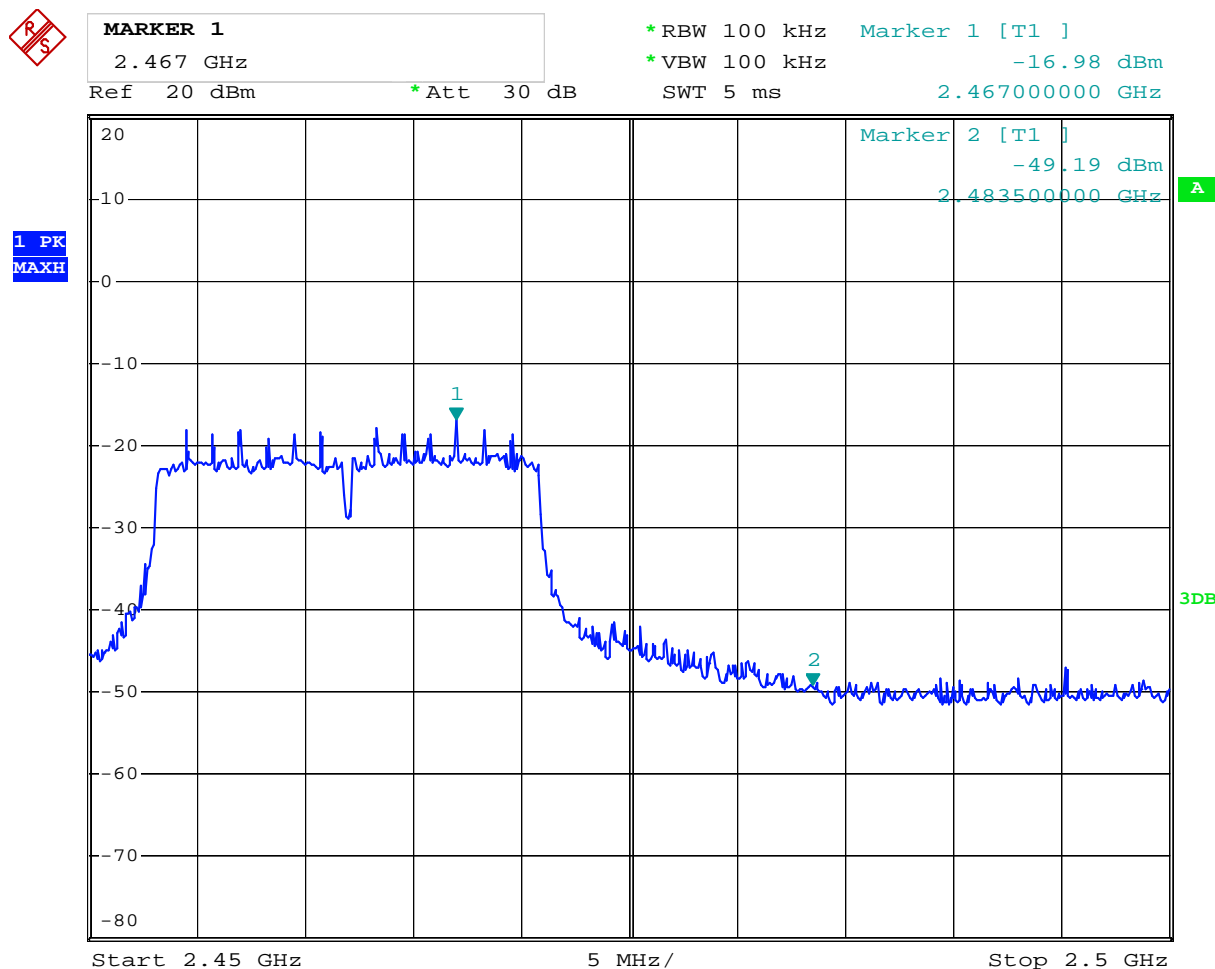
Note: The Max. FS in Restrict Band are measured in conventional method.

CH11 at 65Mbps

10.4 Band-edge and Restricted band Measurement

EUT	MID		Model	HS-7DTB12
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	41.86	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 13.APR.2013 15:52:34

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

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Integral antenna used. The maximum Gain of the antennas is 2.0dBi.

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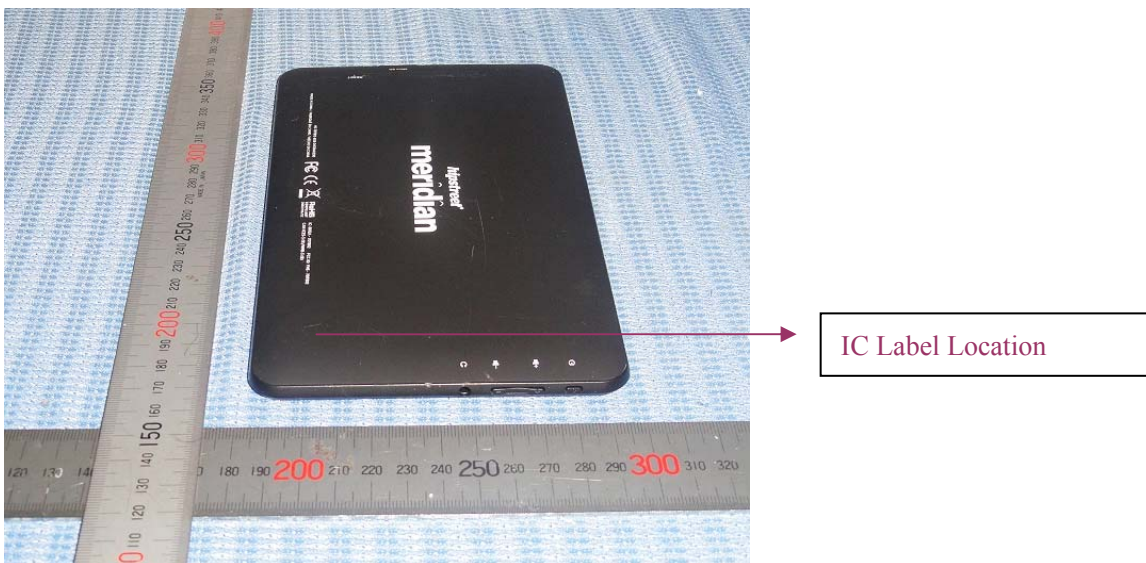
12.0 FCC Label

FCC ID: RH2-HS-7DTB12

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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13.0 Photo of testing

Conducted Emission Test Setup:

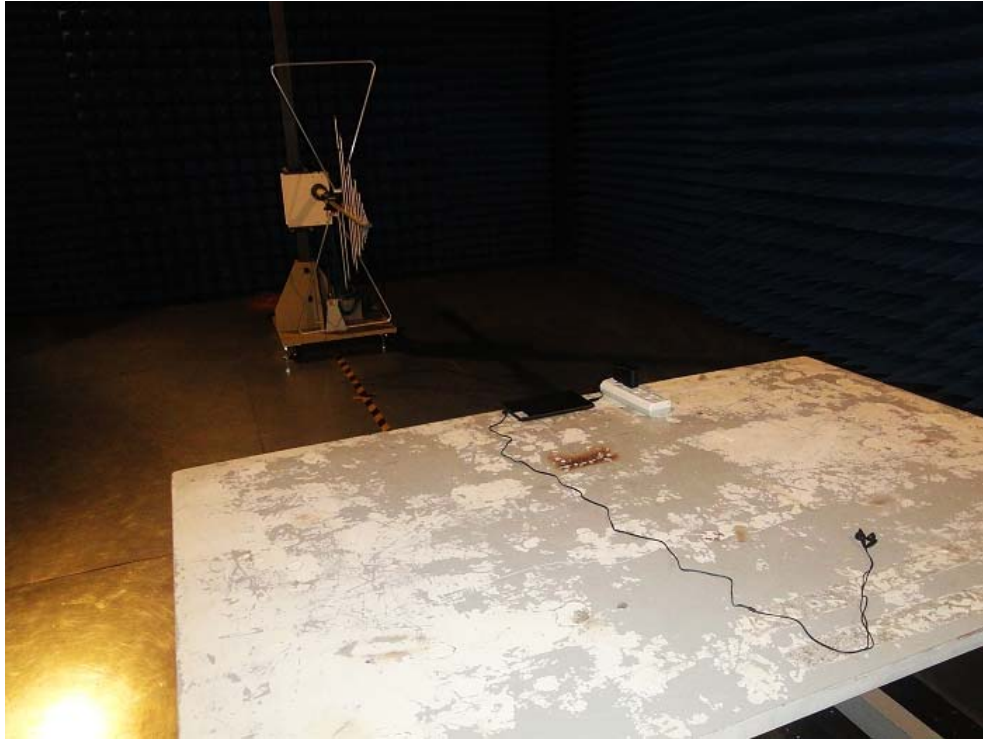


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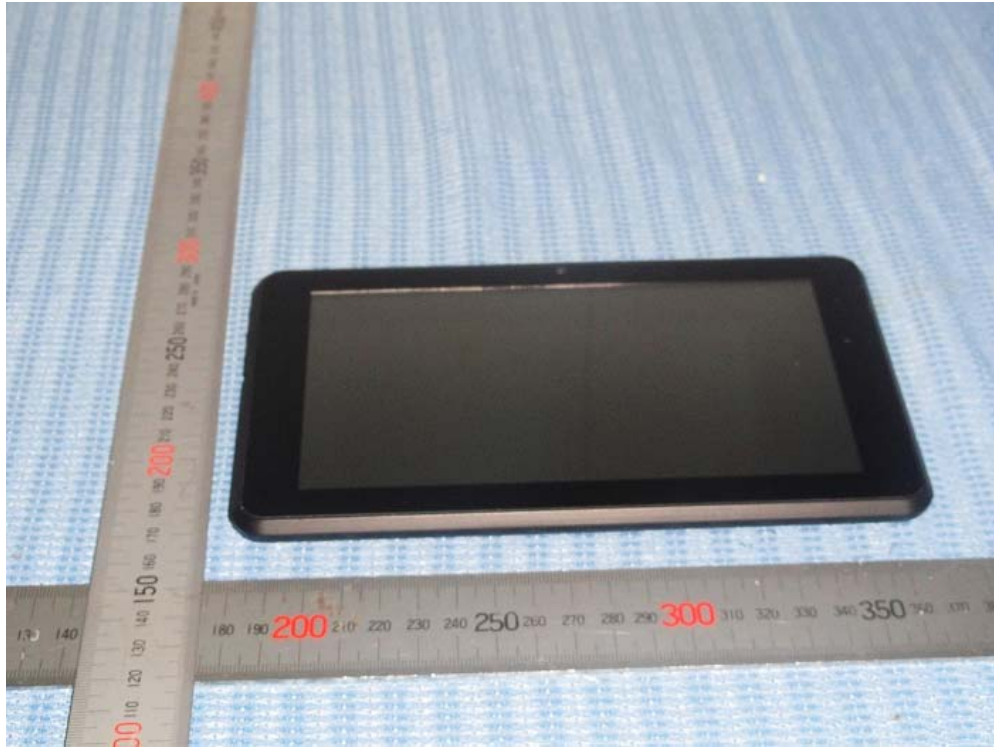
Radiated Emission Test Setup:



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Photographs – EUT

Outside view



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Outside view

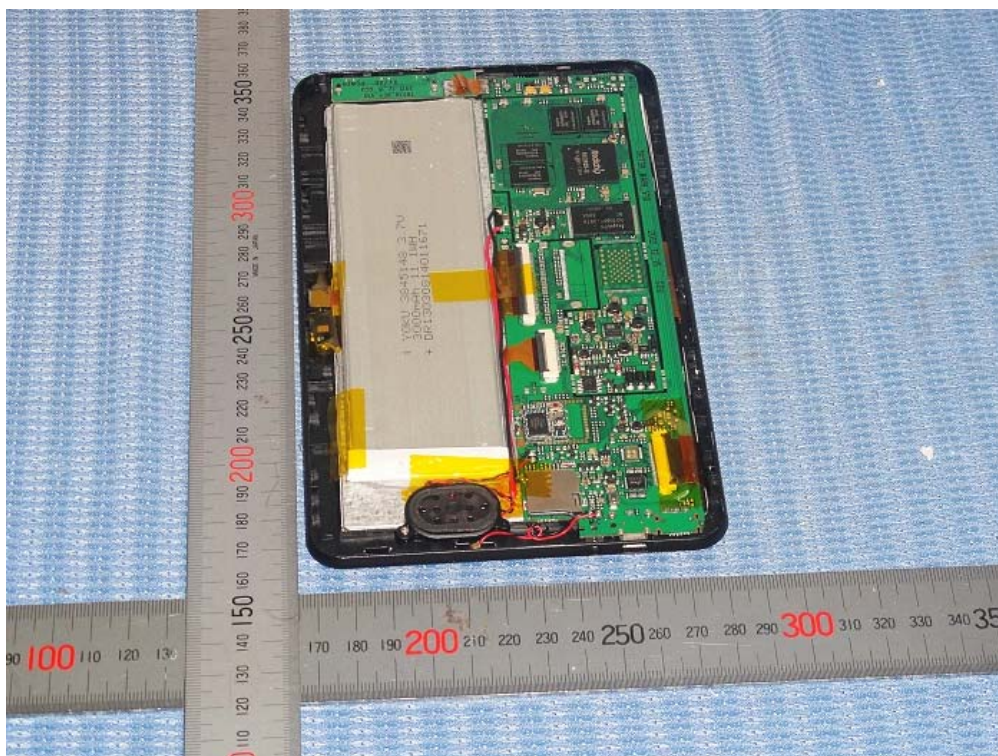


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Inside view

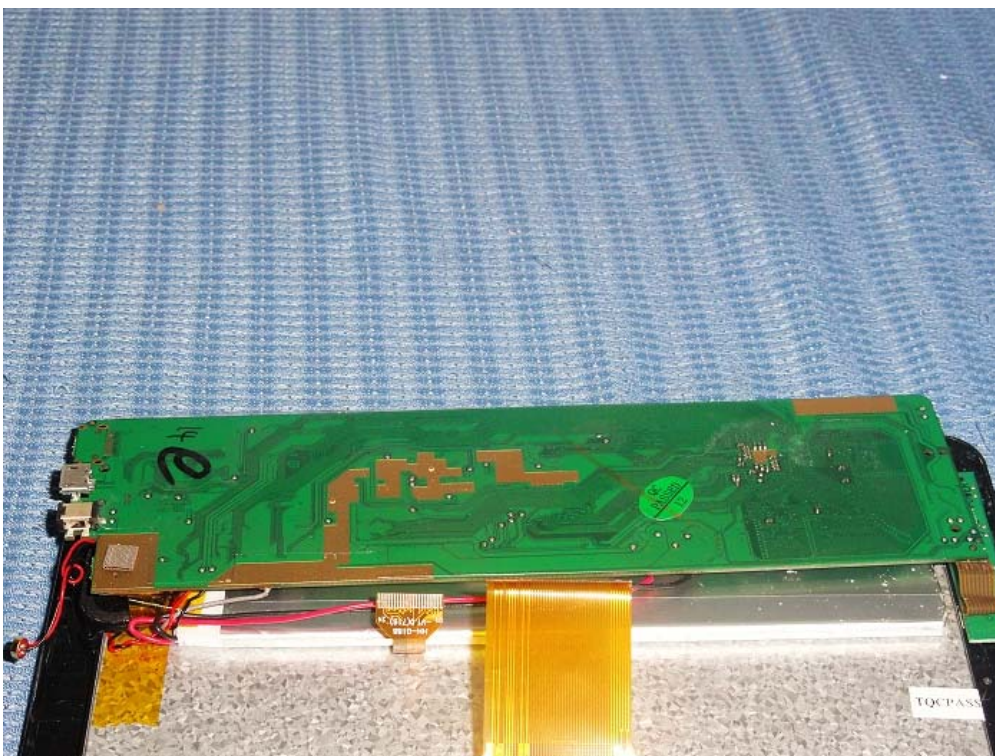


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Inside view



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Power Supply



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Power Supply



End of the report

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