

TECHNICAL REPORT



Report No: FCC 1509133-01  
File reference No: 2015-09-29

Applicant: JIANGSU SHUANGSHUANG TECHNOLOGY CO,LTD.

Product: MID

Model No: TE116C0, D2-1161G

Trademark: N/A

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated: September 29, 2015

**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 TESTING LABORATORIES**

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timewaytech.com



### **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 17025:2005 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 TESTING LABORATORIES.  
Address: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone, Futian District,Shenzhen, Guangdong 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-02  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: JIANGSU SHUANGSHUANG TECHNOLOGY CO,LTD.  
Address: No.188,West Coastal Road,Haian County,Jiangsu Province,P.R.China.  
Telephone: 0513-88355088  
Fax: 0513-88355618

### 1.3 Description of EUT

Product: MID  
Manufacturer: JIANGSU SHUANGSHUANG TECHNOLOGY CO,LTD.  
Address: No.188,West Coastal Road,Haian County,Jiangsu Province,P.R.China.  
Brand Name: N/A  
Model Number: TE116C0  
Additional Model Number: D2-1161G  
Type of Modulation IEEE 802.11b : DSSS (CCK, QPSK, DBPSK)  
IEEE 802.11g/n (HT20/40) : OFDM(64QAM, 16QAM, QPSK, BPSK)  
Frequency range IEEE802.11b/g/n (HT20/40): 2412-2462MHz,IEEE802.11n (HT40) : 2422-2452MHz  
Channel Spacing 5MHz for IEEE 802.11b/g/n(HT20/40)  
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 HT20/40 : 150, 135, 117 ,104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6.5 Mbps  
Frequency Selection By software  
Channel Number IEEE 802.11b/g/n (HT20) : 11 Channels; IEEE 802.11n (HT40) : 7 Channels,  
Antenna: Integral Antenna and the maximum Gain of this antenna is 1.71dBi;

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Power Adapter                      Model No.: KA23-0502000USU  
Input: 100-240V, 50/60Hz, 0.35A; Output: DC5V, 2000mA

1.4 Submitted Sample: 2 Samples

1.5 Test Duration  
2015-09-22 to 2015-09-29

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



2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2015-08-22	2016-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2015-08-22	2016-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2015-08-22	2016-08-21
Ultra Broadband ANT	R&S	HL562	100157	2015-08-23	2016-08-22
ESDV Test Receiver	R&S	ESDV	100008	2015-08-22	2016-08-21
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2015-08-22	2016-08-21
System Controller	CT	SC100	-	--	--
Printer	EPSON	PHOTO EX3	CFNH234850	--	--
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-
Loop Antenna	EMCO	6502	00042960	2015-08-23	2016-08-22
ESPI Test Receiver	R&S	ESI26	838786/013	2015-08-22	2016-08-21
3m OATS	--	--	N/A	2015-08-24	2016-08-23
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2015-08-24	2016-08-23
Horn Antenna	R&S	BBHA 9120D	9120D-631	2015-08-24	2016-08-23
Power meter	Anritsu	ML2487A	6K00003613	2015-08-22	2016-08-21
Power sensor	Anritsu	MA2491A	32263	2015-08-22	2016-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2015-08-23	2016-08-21
LISN	AFJ	LS16C	10010947251	2015-08-22	2016-08-21
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2015-08-23	2016-08-22
9*6*6 Anechoic	--	--	N/A	2015-08-24	2016-08-23
EMI Test Receiver	RS	ESCS30	100139	2015-08-22	2016-08-21

### 2.1 Auxiliary Equipment

Name	Model No.	Rating	Manufacturer	FCC ID/DOC
Passive 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: 54Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: 6.5Mbps data rate (worst case) were chosen for full testing

#### IEEE 802.11n (HT40) mode

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 802.11n (HT40) mode: 6.5Mbps 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

#### 3.1 Summary of test results

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.107 &amp; 15.207</b>	<b>Conducted Emission Test</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit</b>	<b>Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth&gt;500kHz</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(b)</b>	<b>Maximum peak output power Limit: max. 30dBm</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.109,15.205 &amp; 15.209</b>	<b>Transmitter Radiated Emission Limit: Table 15.209</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(e)</b>	<b>Power Spectral Density Limit: max. 8dBm</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(d)</b>	<b>Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209</b>	<b>PASS</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart & Subpart C, Paragraph 15.247 and ANSI C63.4:2014 AND ANSI C63.10:2013**

#### 4.0 EUT Modification

**No modification by Shenzhen Timeway Technology Consulting Co., Ltd**

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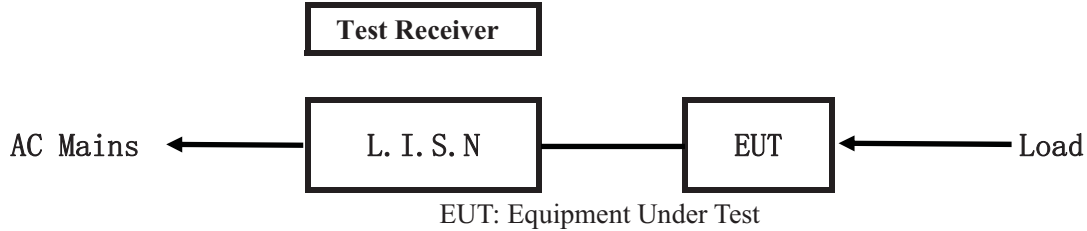
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**5.0 Power Line Conducted Emission Test**

5.1 Schematics of the test

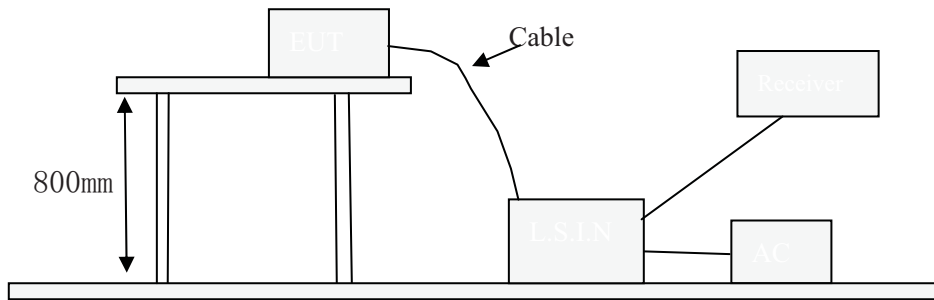


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2014.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
MID	JIANGSU SHUANGSHUANG TECHNOLOGY CO,LTD.	TE116C0, D2-1161G	2ABDT- TE116C0

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
--	--	--	--	--

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5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4-2014.

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.



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

**EUT Operating Environment**

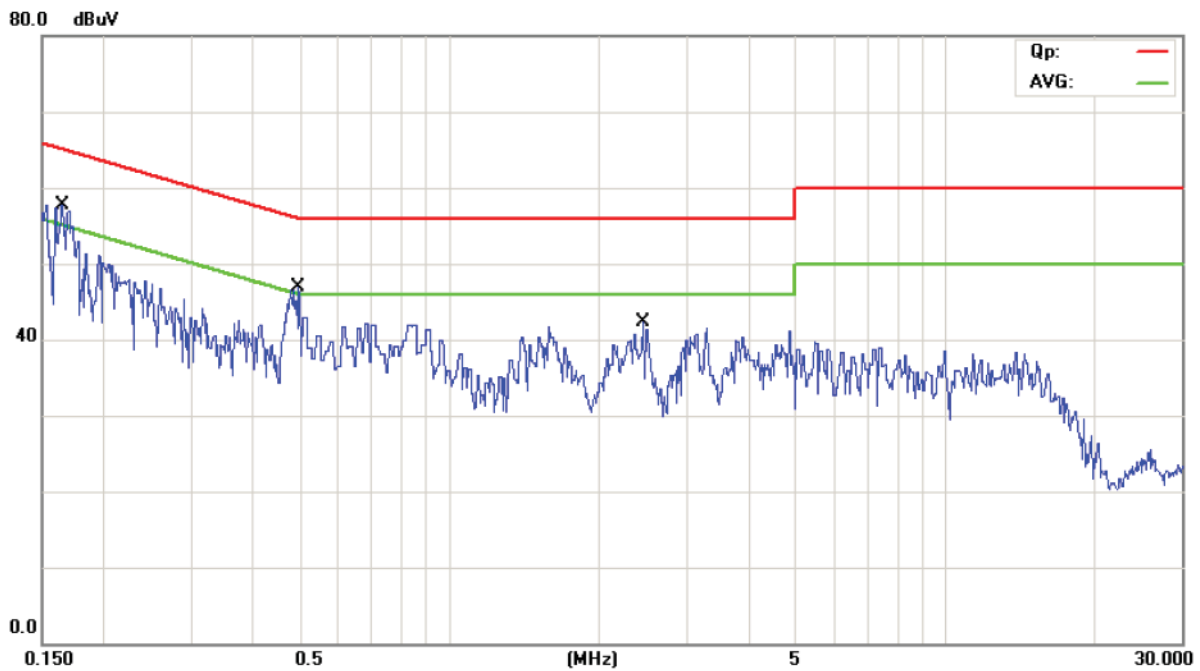
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep WIFI Transmitting**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1643	37.70	11.02	48.72	65.24	-16.52	QP	
2		0.1643	4.20	11.02	15.22	55.24	-40.02	AVG	
3		0.4948	25.10	11.37	36.47	56.09	-19.62	QP	
4		0.4948	8.30	11.37	19.67	46.09	-26.42	AVG	
5		2.4595	19.20	12.48	31.68	56.00	-24.32	QP	
6		2.4595	0.60	12.48	13.08	46.00	-32.92	AVG	

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

**EUT Operating Environment**

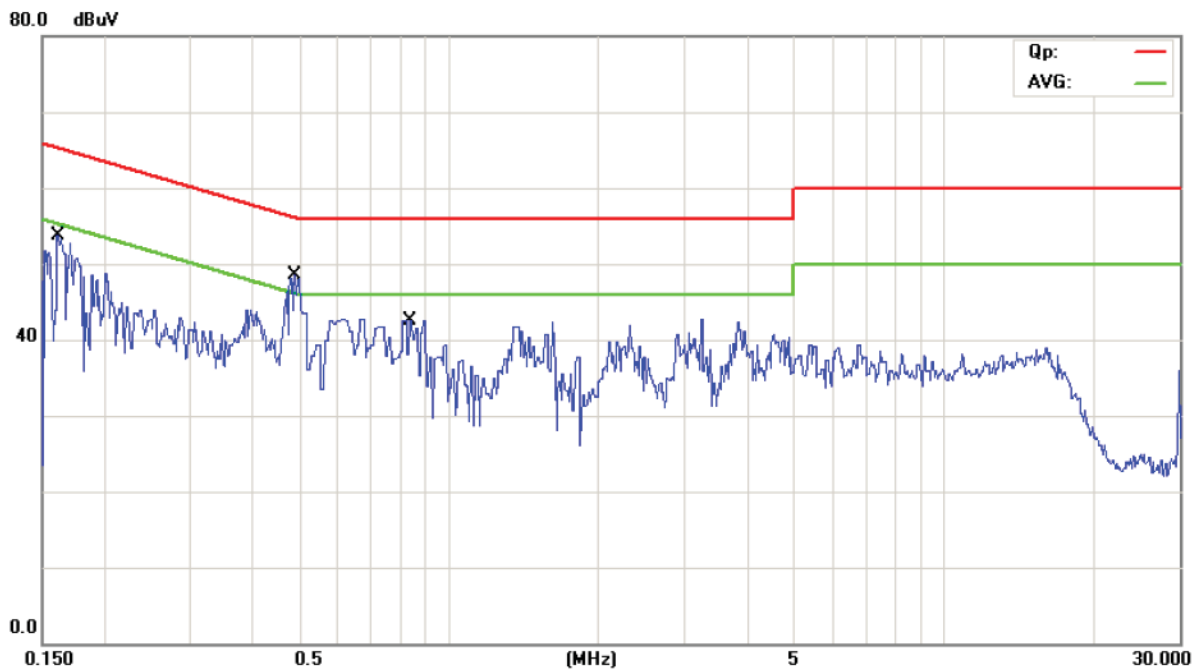
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep WIFI Transmitting**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1616	36.50	11.01	47.51	65.38	-17.87	QP	
2		0.1616	-2.40	11.01	8.61	55.38	-46.77	AVG	
3	*	0.4860	30.70	11.36	42.06	56.24	-14.18	QP	
4		0.4860	2.50	11.36	13.86	46.24	-32.38	AVG	
5		0.8360	24.30	11.73	36.03	56.00	-19.97	QP	
6		0.8360	4.20	11.73	15.93	46.00	-30.07	AVG	

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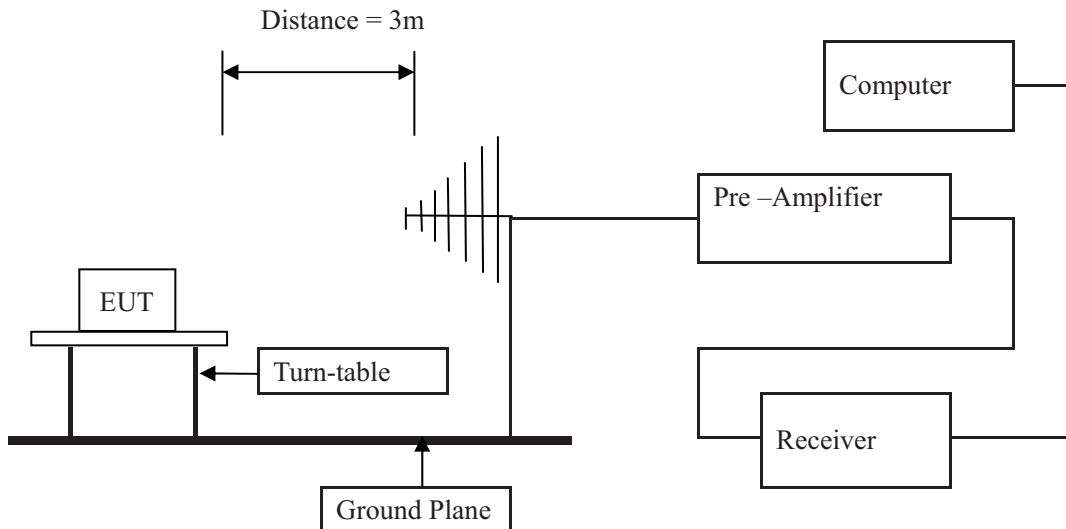


## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. 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 C63.10–2013.
- (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=1MHz VBW=3MHz and PK detector. For measurement below 1GHz, peak values with RBW=1MHz, VBW=3MHz and RMS 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**

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 (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/Vertical (30MHz----1000MHz)**

EUT set Condition: **Keep WIFI Transmitting**

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
30.760	30.00	H	40.00
958.240	40.21	H	46.00
400.000	34.57	H	46.00
250.000	32.52	H	46.00
100.000	30.57	V	43.50
944.960	41.06	V	46.00
150.000	37.84	V	43.50
50.000	32.97	V	40.00

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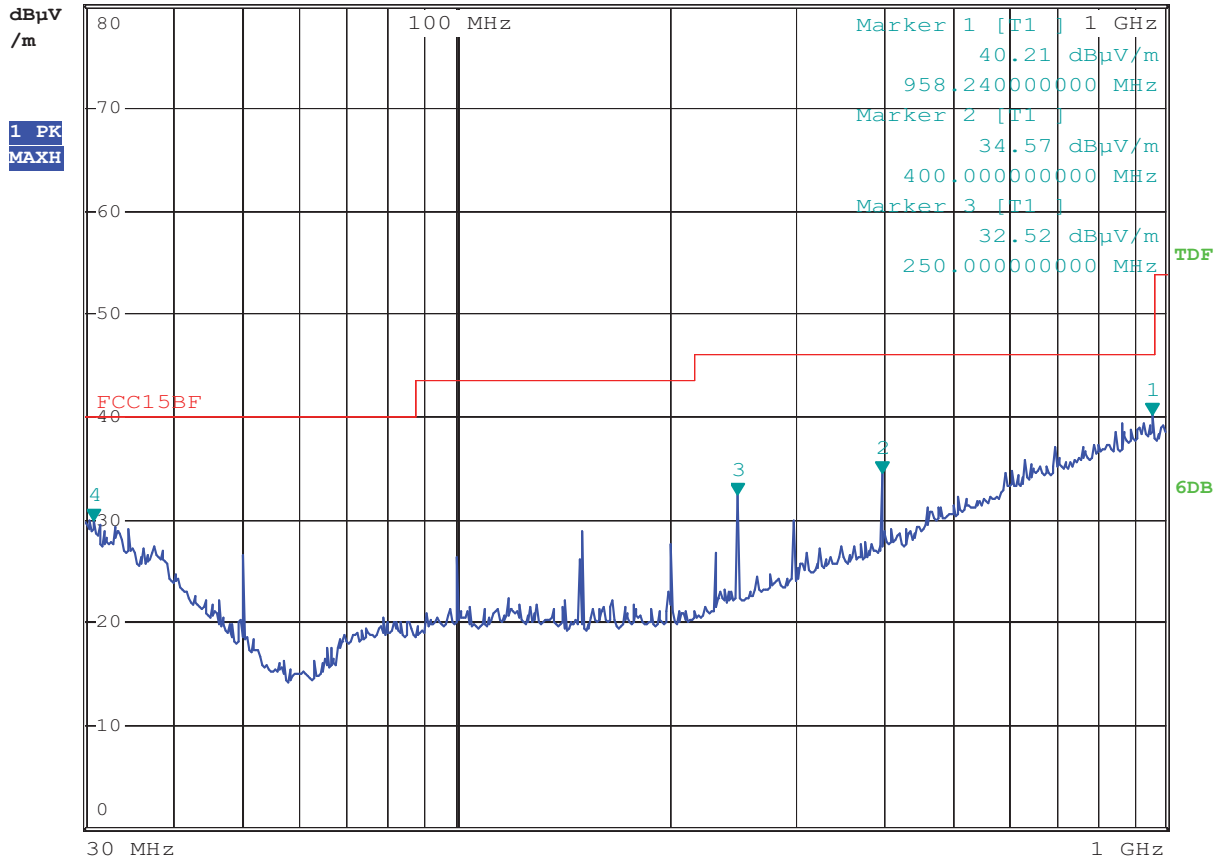
Test Figure:

H



**MARKER 4**  
 30.76 MHz  
 Att 10 dB

RBW 120 kHz Marker 4 [T1 ]  
 MT 50 μs 30.00 dBμV/m  
 PREAMP ON 30.760000000 MHz



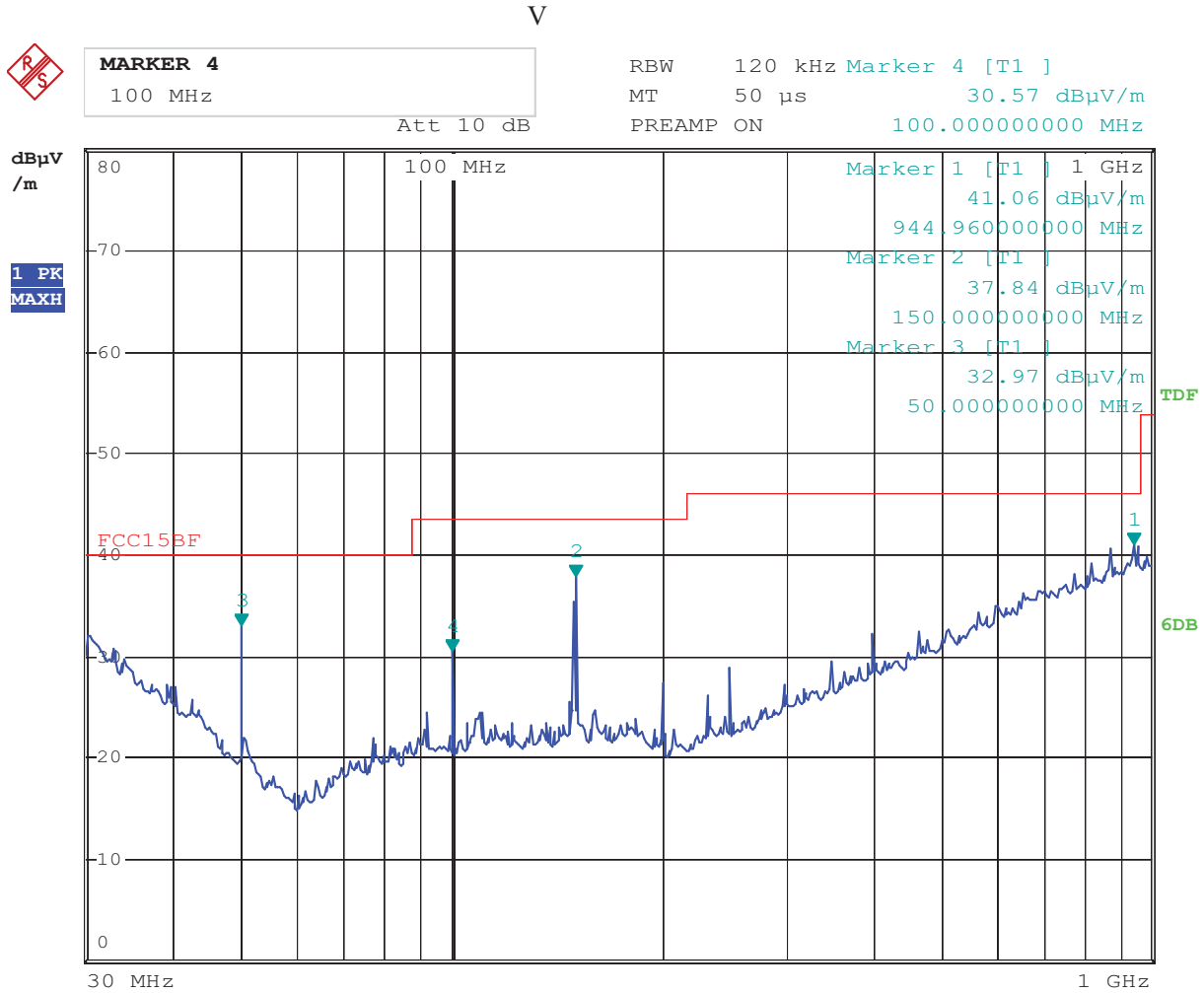
Date: 23.SEP.2015 11:40:50

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Test Figure:



Date: 23.SEP.2015 11:43:43

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**Operation Mode: Transmitting under CH01 for 11g at 54Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4824.00	49.80 (PK)	H	74(Peak)/ 54(AV)
4824.00	49.33 (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

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**Operation Mode: Transmitting under CH06 for 11g at 54Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4874.00	51.18 (PK)	V	74(Peak)/ 54(AV)
4874.00	51.22 (PK)	H	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark "---" means that the emissions level is too low to be measured  
 3. For 802.11g mode 54 Mbps

**Operation Mode: Transmitting under CH11 for 11g at 54Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4924	51.66 (PK)	H	74(Peak)/ 54(AV)
4924	51.11 (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)
24620	--	H/V	74(Peak)/ 54(AV)

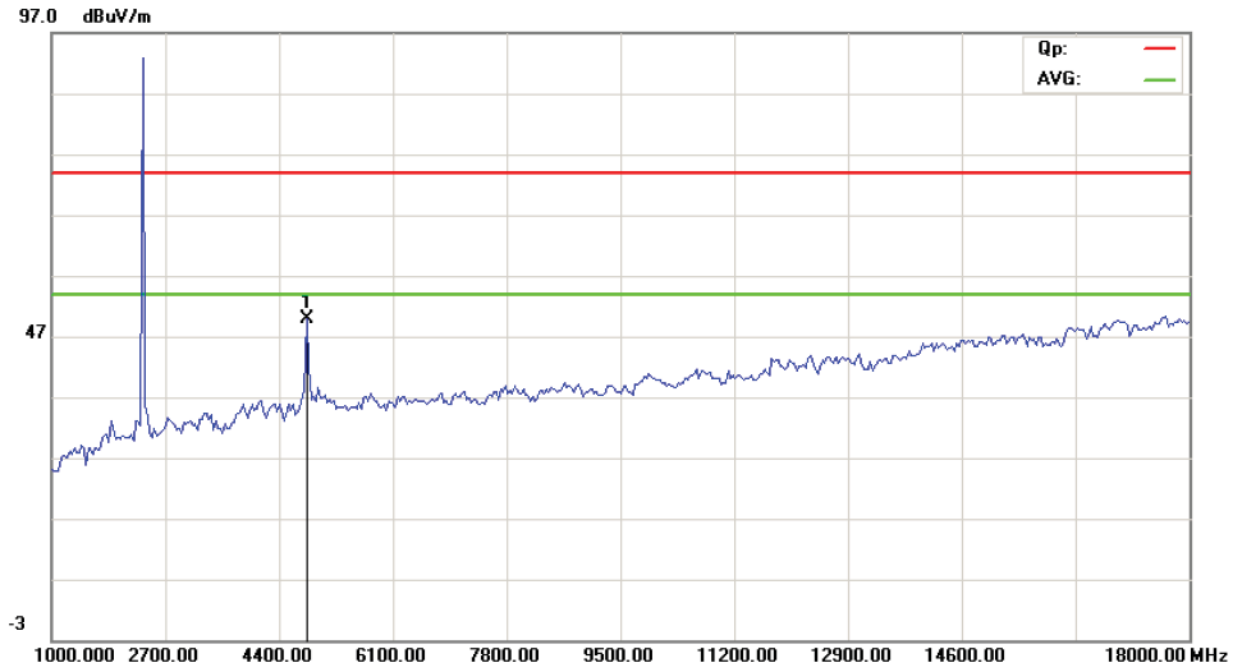
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark "---" means that the emissions level is too low to be measured  
 3. For 802.11g mode at 54 Mbps

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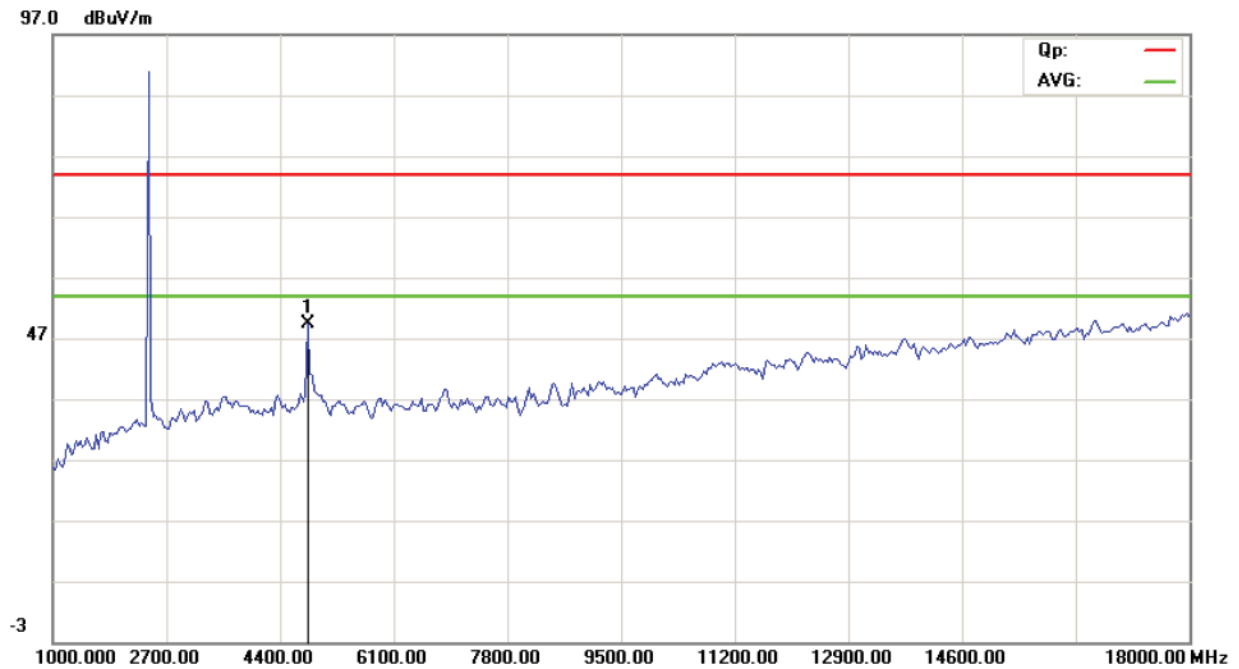


Please refer to the following test plots for details:

**CH01 for 11g at 54Mbps: Horizontal**



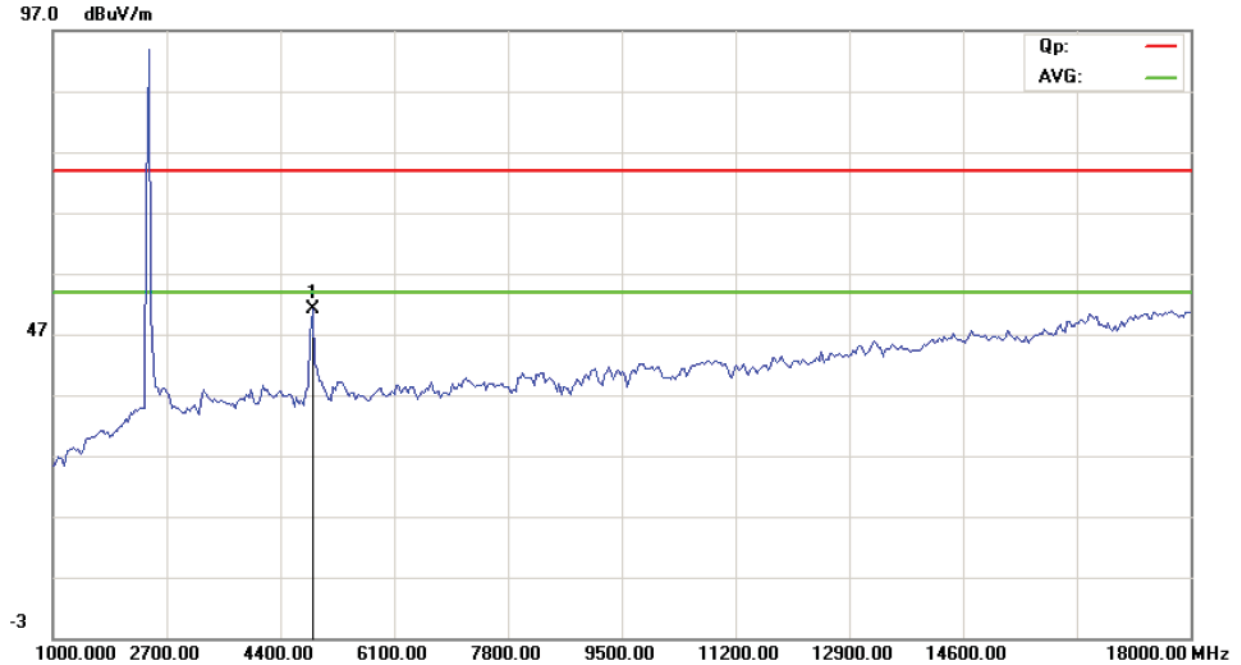
**CH01 for 11g at 54Mbps: Vertical**



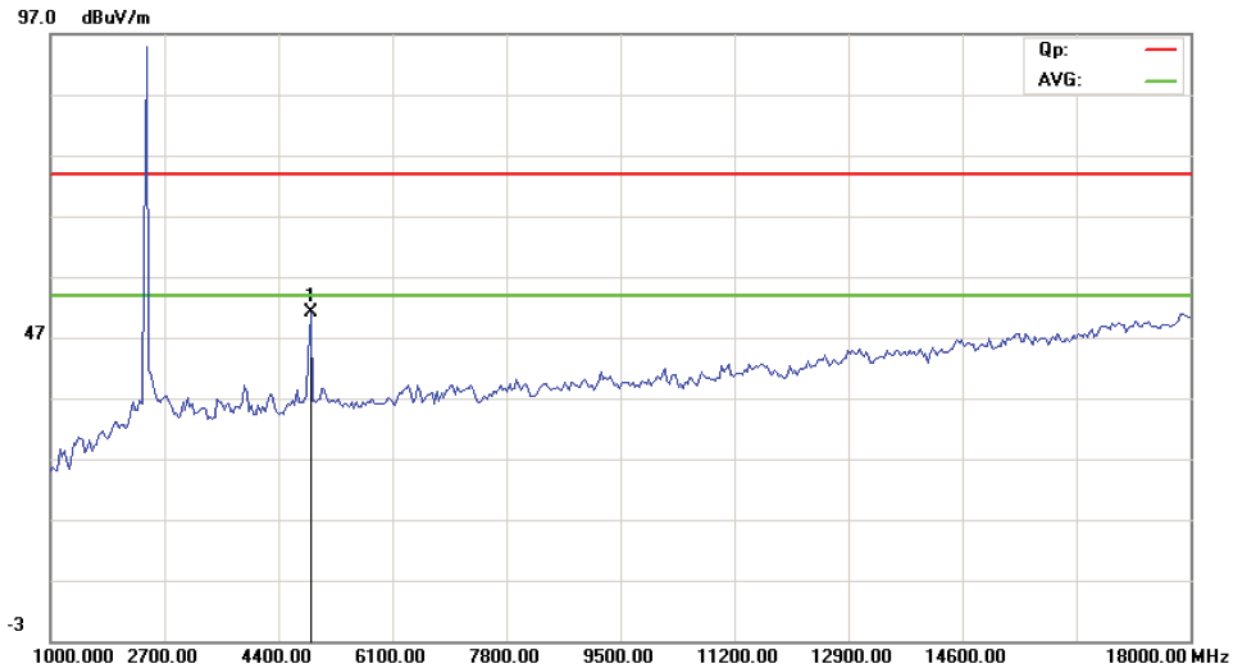
The report refers only to the sample tested and does not apply to the bulk.  
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**CH06 for 11g at 54Mbps: Vertical**



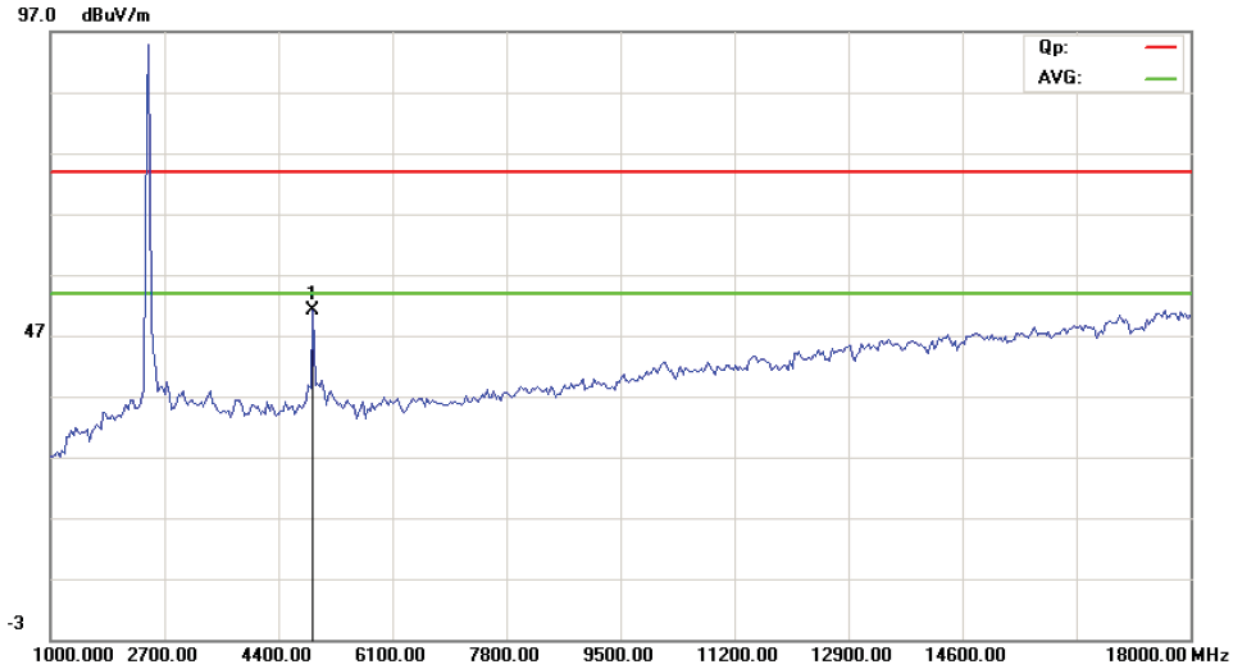
**CH06 for 11g at 54Mbps: Horizontal**



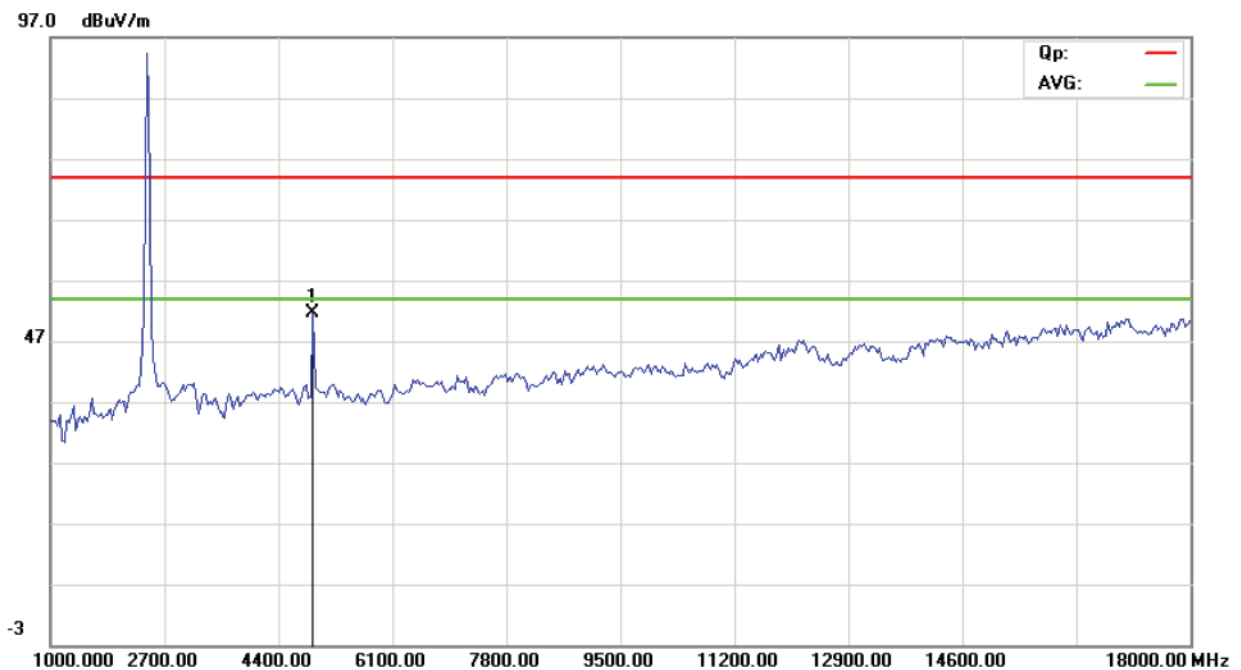
The report refers only to the sample tested and does not apply to the bulk.  
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### CH11 for 11g at 54Mbps: Vertical



### CH11 for 11g at 54Mbps: Horizontal



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

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**Operation Mode: Transmitting under CH01 for 11b at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4824.00	52.83 (PK)	H	74(Peak)/ 54(AV)
4824.00	52.62 (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 under CH06 for 11b at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4874.00	50.08 (PK)	H	74(Peak)/ 54(AV)
4874.00	50.53 (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 under CH11 for 11b at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4924	50.83 (PK)	H	74(Peak)/ 54(AV)
4924	50.62 (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)
24620	--	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

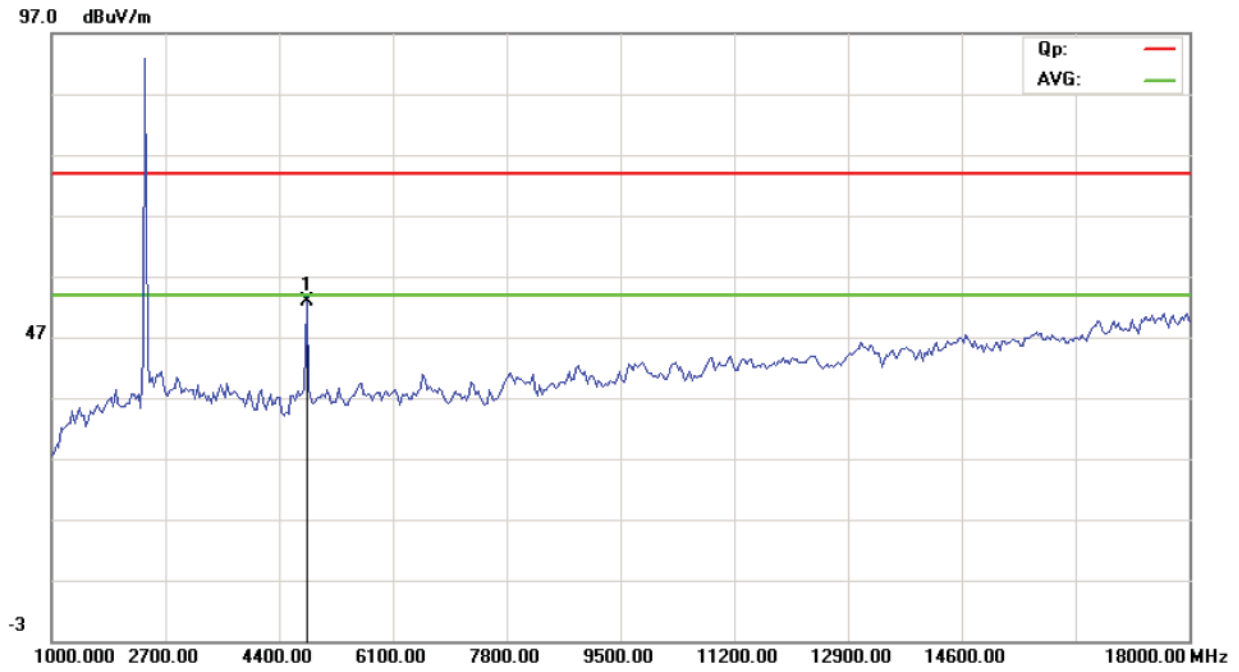
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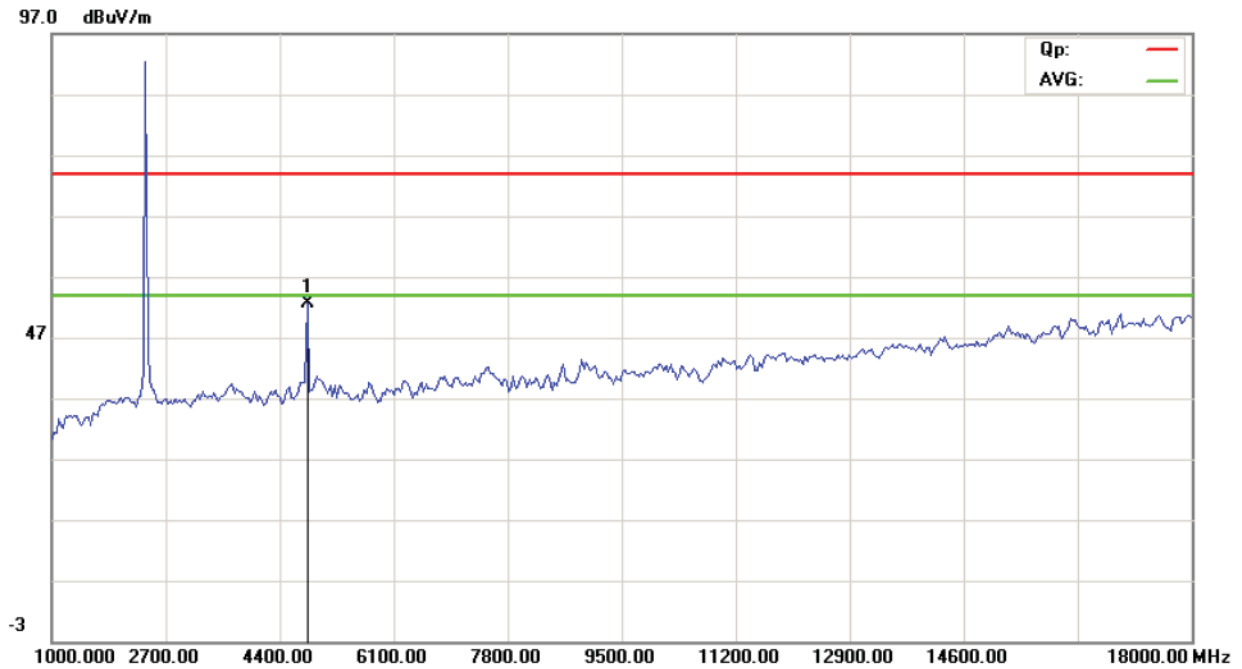


Please refer to the following test plots for details:

**CH01 for 11b at 11Mbps: Horizontal**



**CH01 for 11b at 11Mbps: Vertical**



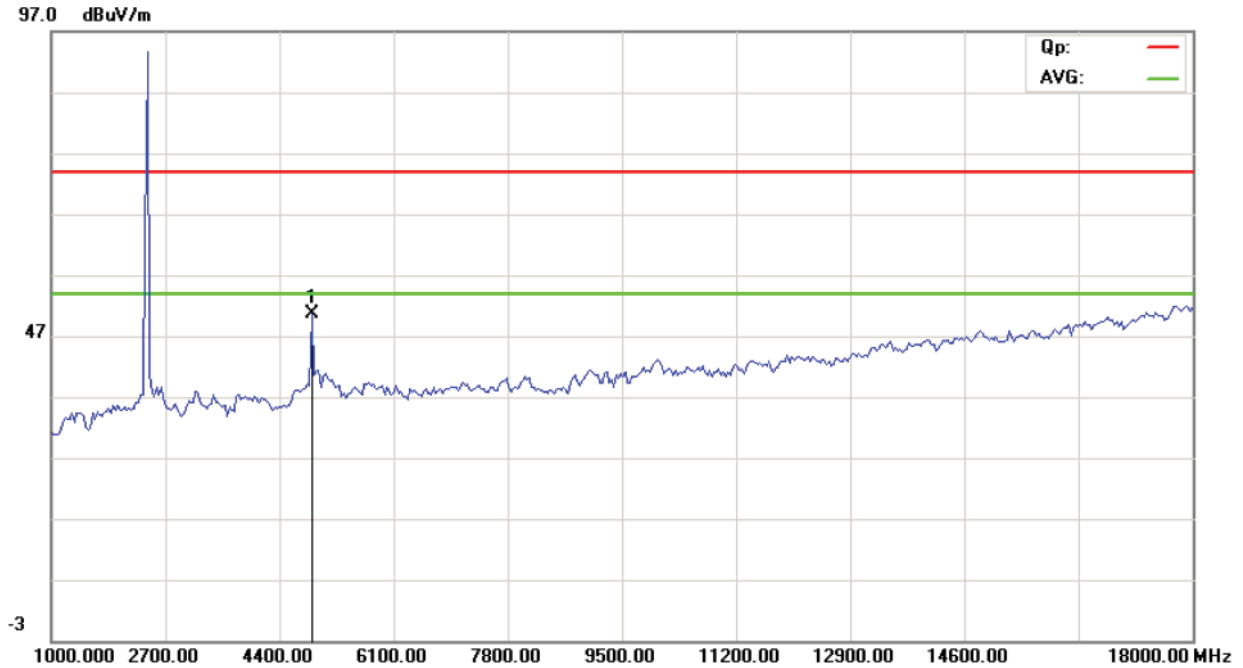
The report refers only to the sample tested and does not apply to the bulk.

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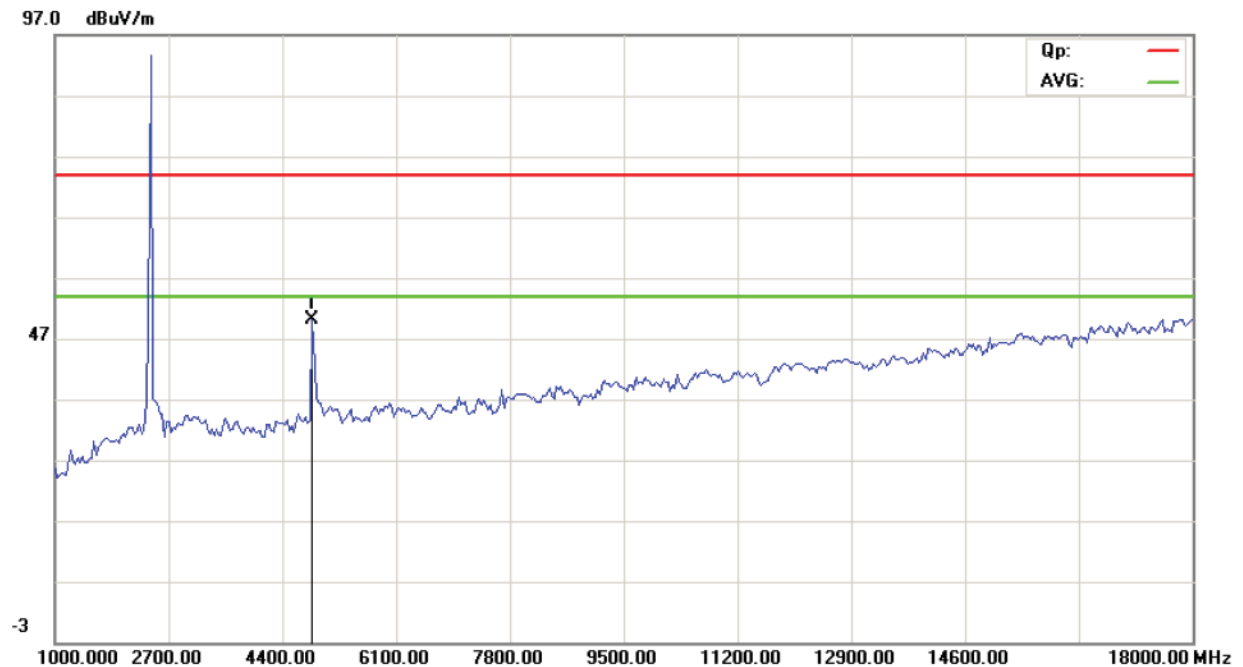
In the event of the improper use of the report, the SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



**CH06 for 11b at 11Mbps: Vertical**



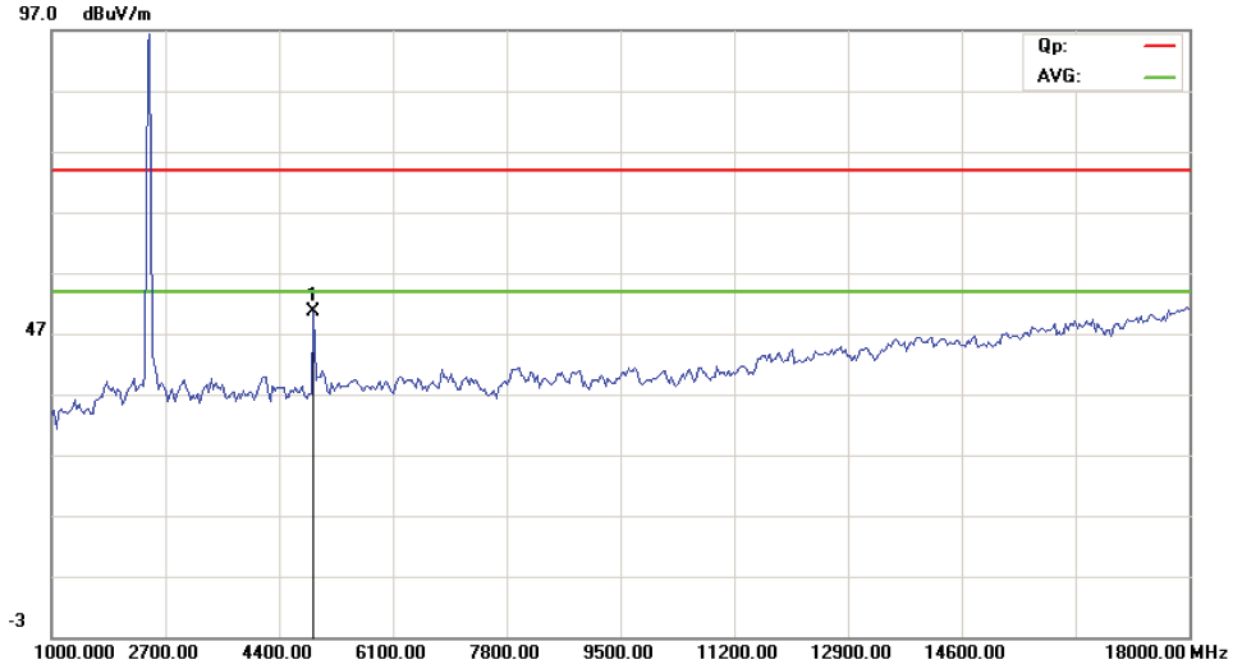
**CH06 for 11b at 11Mbps: Horizontal**



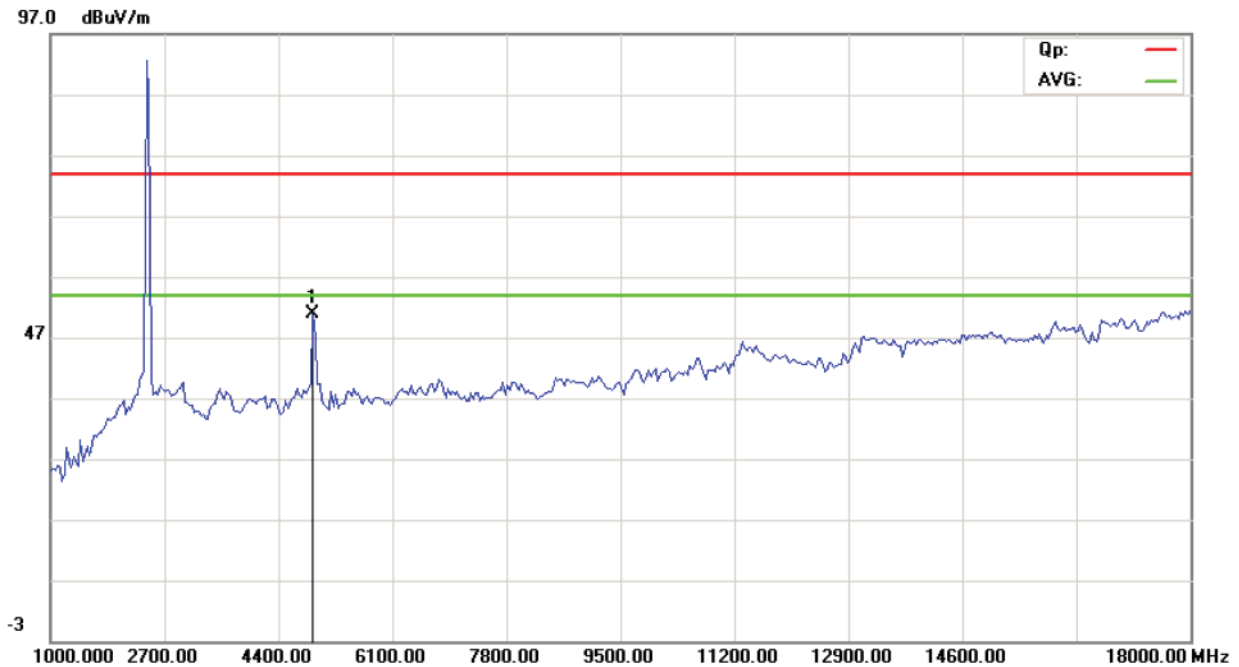
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### CH11 for 11b at 11Mbps: Vertical



### CH11 for 11b at 11Mbps: Horizontal



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

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**Operation Mode: Transmitting under CH01 for 11n HT20 at 6.5Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4824.00	50.35 (PK)	H	74(Peak)/ 54(AV)
4824.00	50.09 (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 6.5Mbps

**Operation Mode: Transmitting under CH06 for 11n HT20 at 6.5Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4874.00	52.58 (PK)	H	74(Peak)/ 54(AV)
4874.00	52.19 (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 6.5Mbps

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**Operation Mode: Transmitting under CH11 for 11n HT20 at 6.5Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4924	51.19 (PK)	H	74(Peak)/ 54(AV)
4924	51.64 (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)
24620	--	H/V	74(Peak)/ 54(AV)

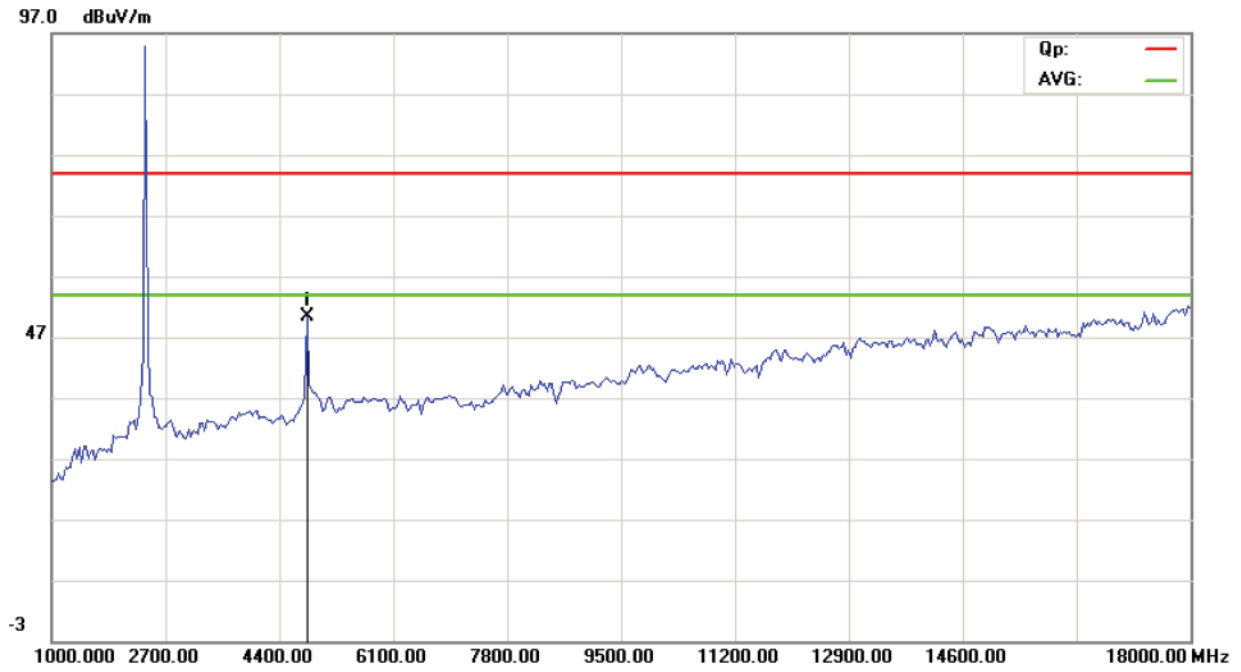
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark “---” means that the emissions level is too low to be measured  
 3. For 802.11n (HT20) mode 6.5Mbps

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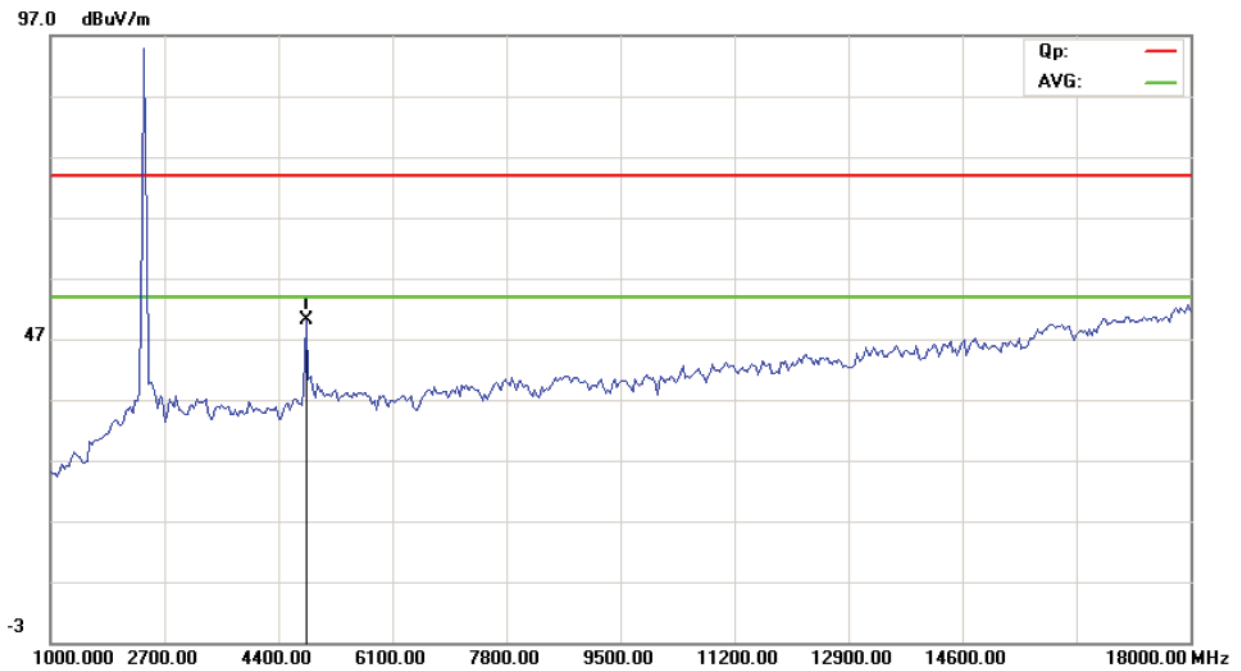


Please refer to the following test plots for details:

**CH01 for 11n HT20 at 6.5Mbps: Horizontal**



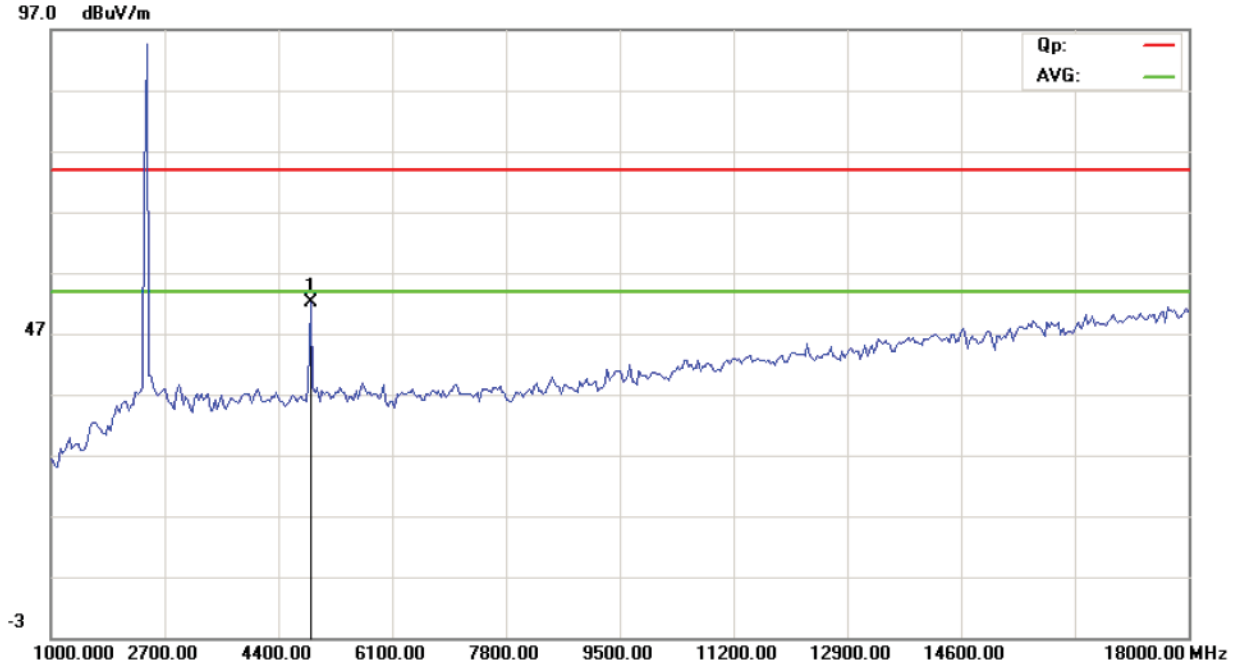
**CH01 for 11n HT20 at 6.5Mbps: Vertical**



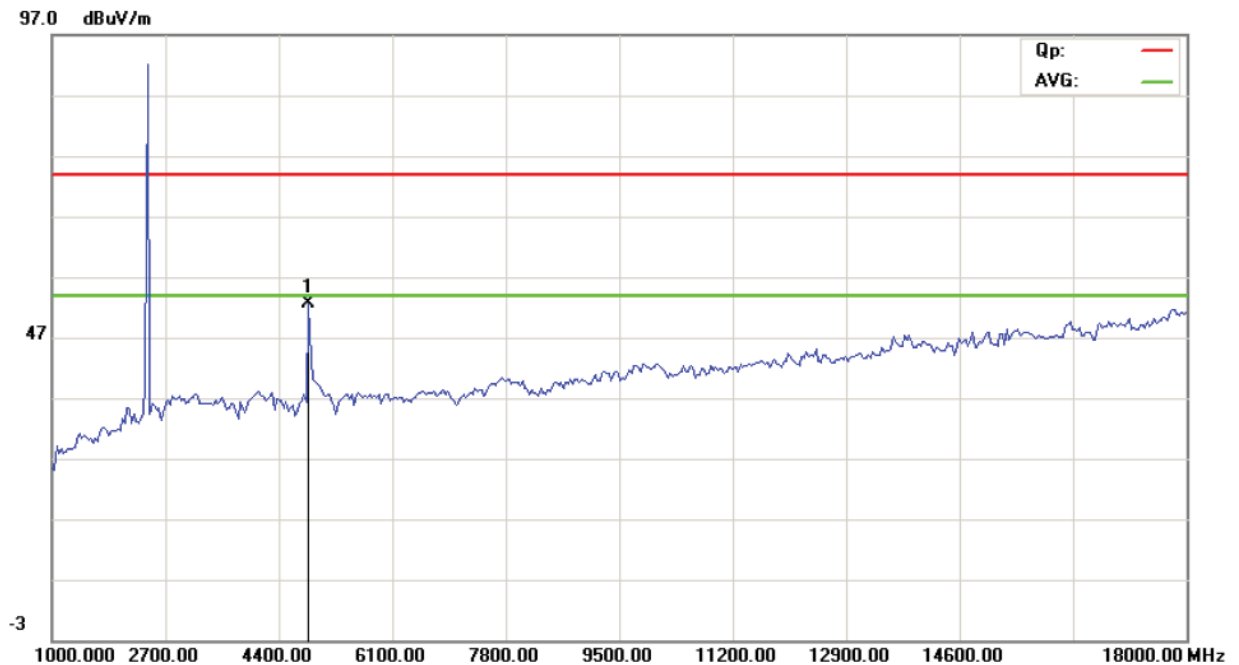
The report refers only to the sample tested and does not apply to the bulk.  
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**CH06 for 11n HT20 at 6.5Mbps: Vertical**



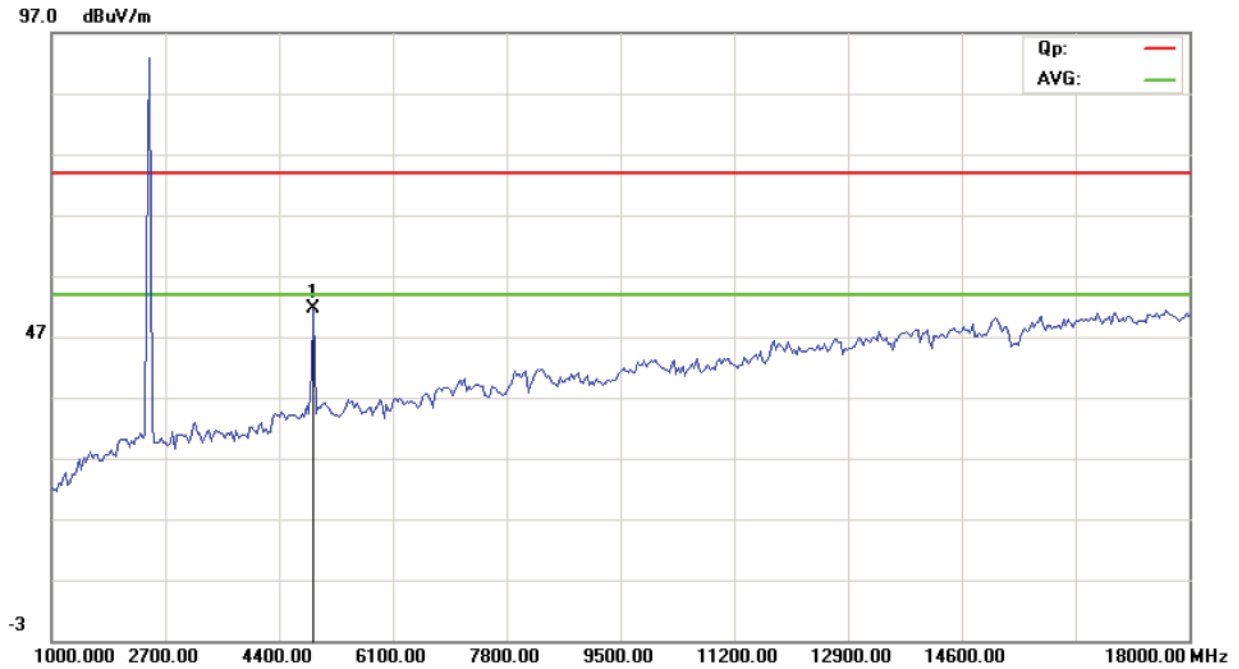
**CH06 for 11n HT20 at 6.5Mbps: Horizontal**



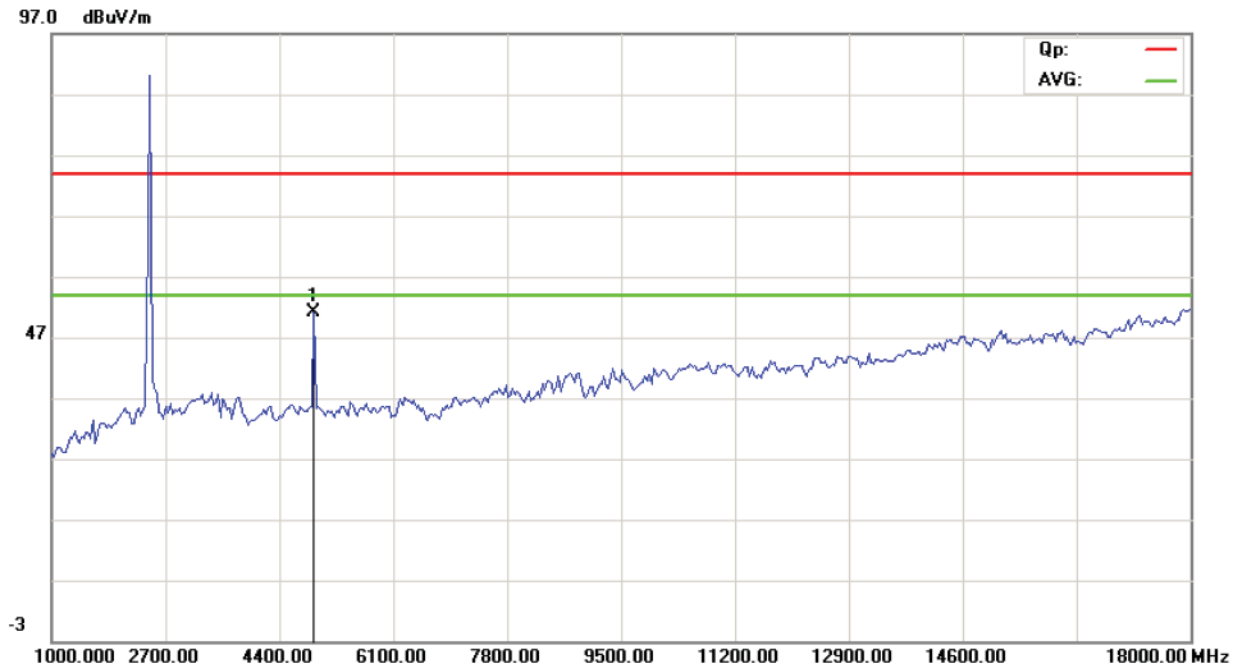
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**CH11 for 11n HT20 at 6.5Mbps: Vertical**



**CH11 for 11n HT20 at 6.5Mbps: Horizontal**



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

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**Operation Mode: Transmitting under CH01 for 11n HT40 at 6.5Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4844.00	48.55 (PK)	H	74(Peak)/ 54(AV)
4844.00	48.29 (PK)	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 6.5Mbps

**Operation Mode: Transmitting under CH04 for 11n HT40 at 6.5Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4874.00	48.19 (PK)	H	74(Peak)/ 54(AV)
4874.00	48.56 (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 (HT40) mode 6.5Mbps

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**Operation Mode: Transmitting under CH07 for 11n HT40 at 6.5Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4904	49.37 (PK)	H	74(Peak)/ 54(AV)
4904	49.64 (PK)	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)

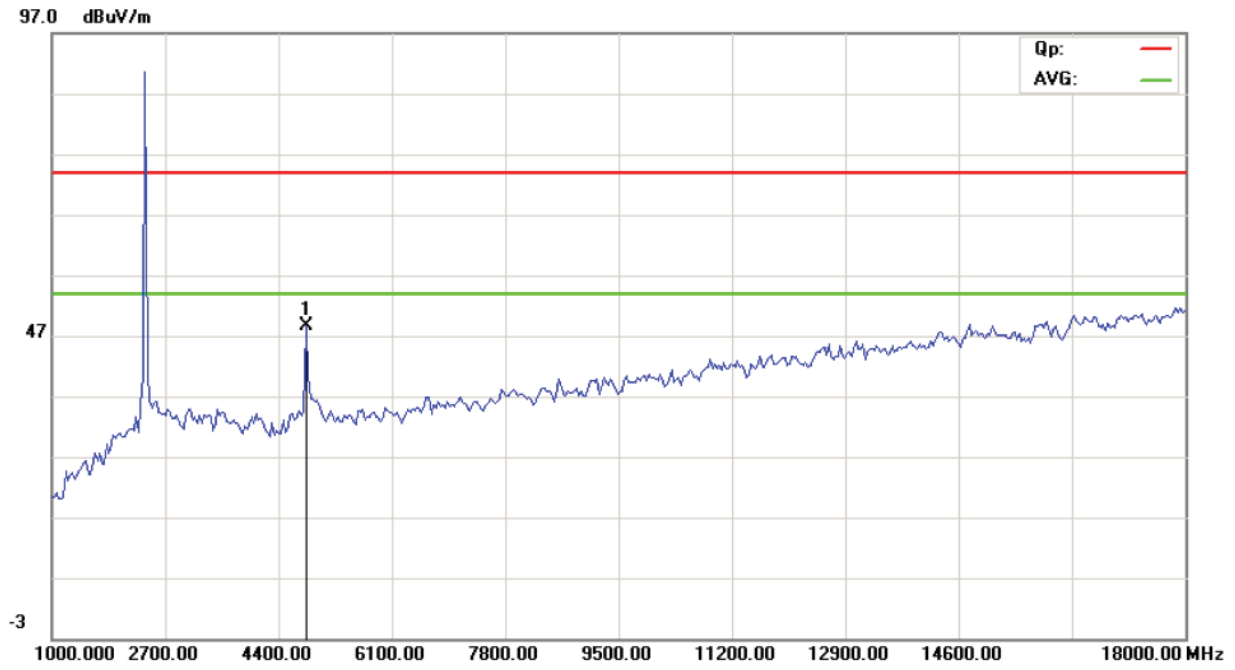
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark “---” means that the emissions level is too low to be measured  
 3. For 802.11n (HT40) mode 6.5Mbps

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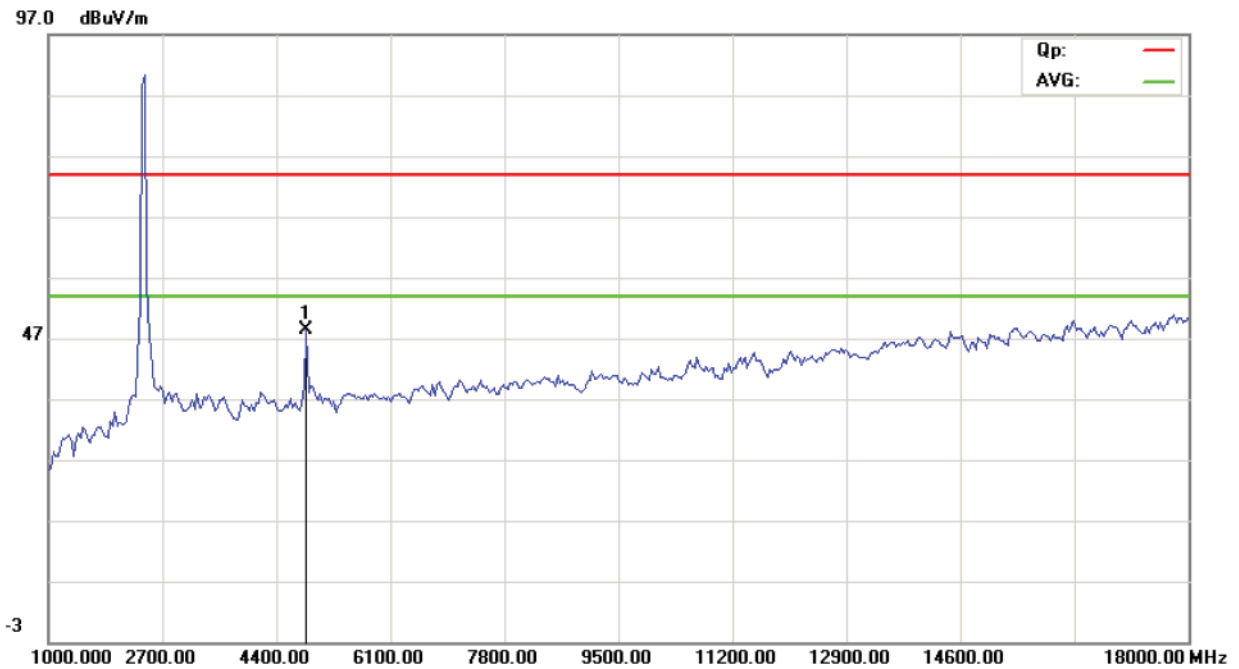


Please refer to the following test plots for details:

**CH01 for 11n HT40 at 6.5Mbps: Horizontal**



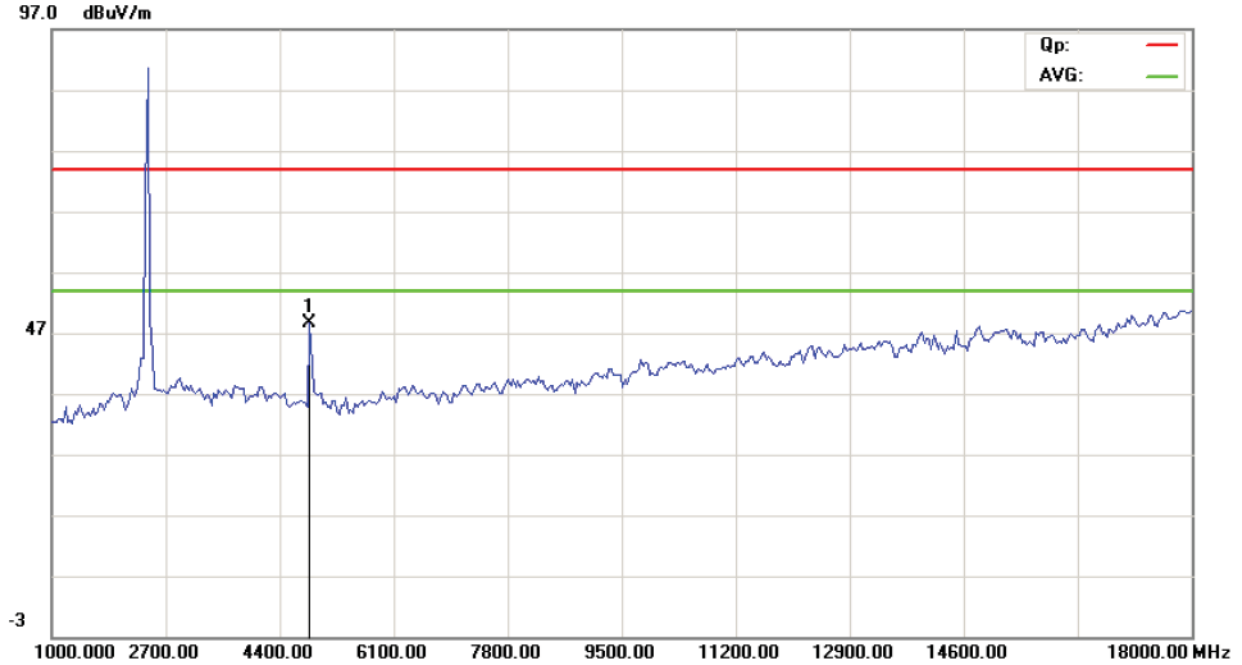
**CH01 for 11n HT40 at 6.5Mbps: Vertical**



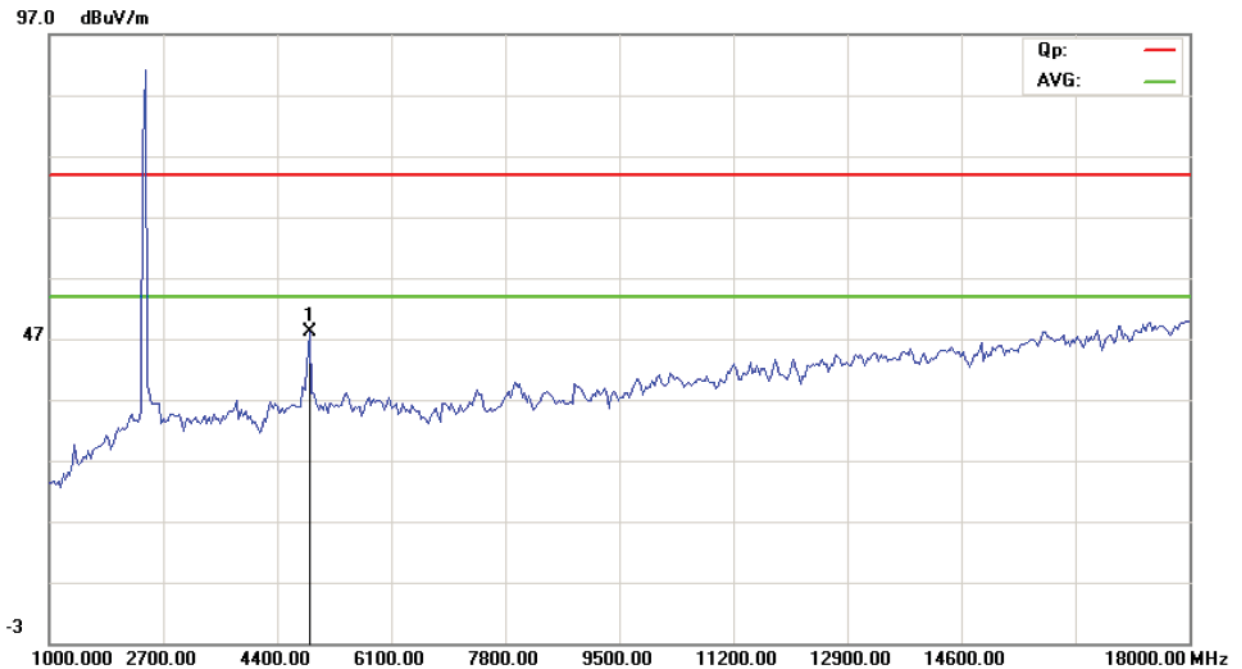
The report refers only to the sample tested and does not apply to the bulk.  
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**CH04 for 11n HT40 at 6.5Mbps: Vertical**



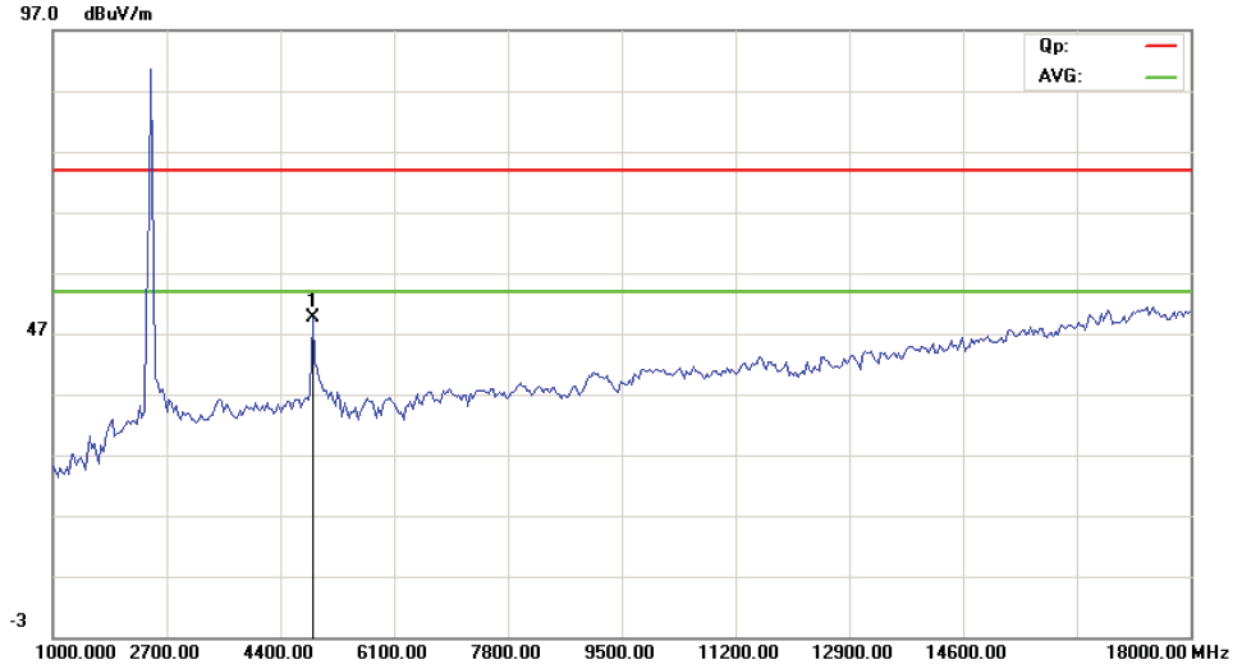
**CH04 for 11n HT40 at 6.5Mbps: Horizontal**



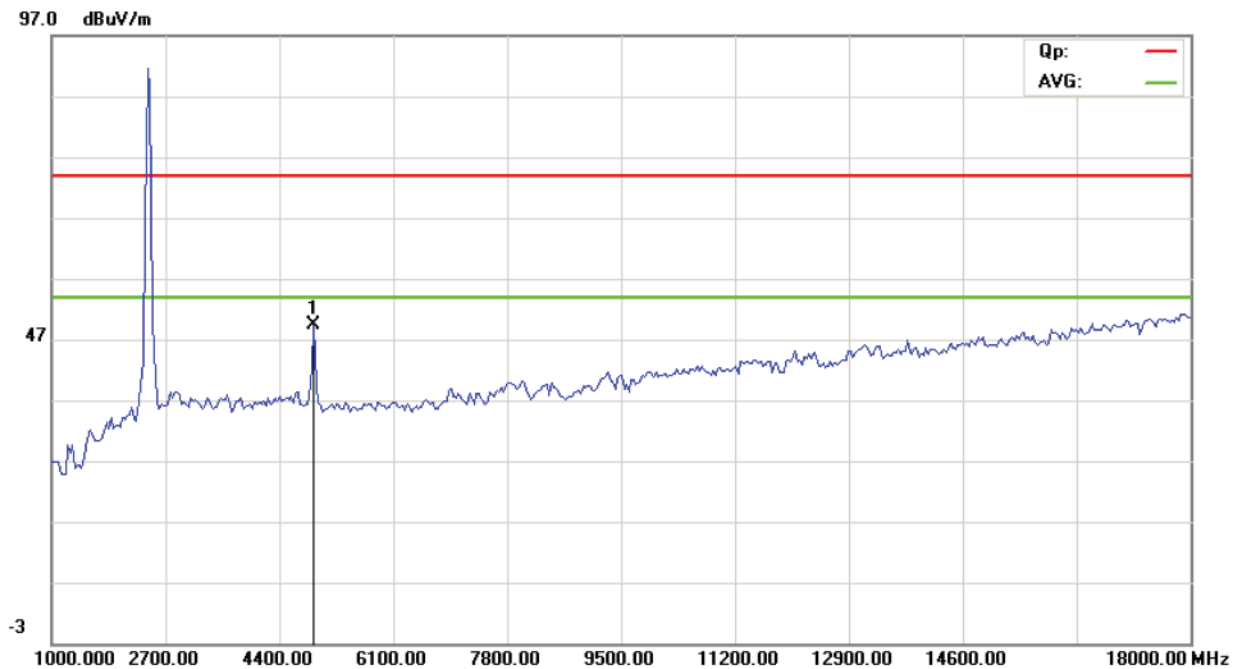
The report refers only to the sample tested and does not apply to the bulk.  
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**CH07 for 11n HT40 at 6.5Mbps: Vertical**



**CH07 for 11n HT40 at 6.5Mbps : Horizontal**



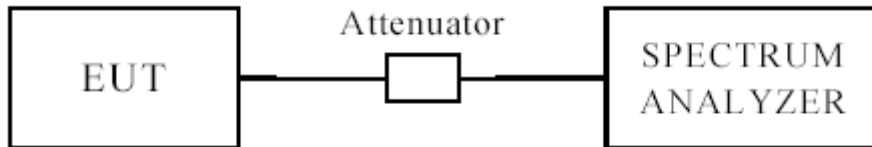
Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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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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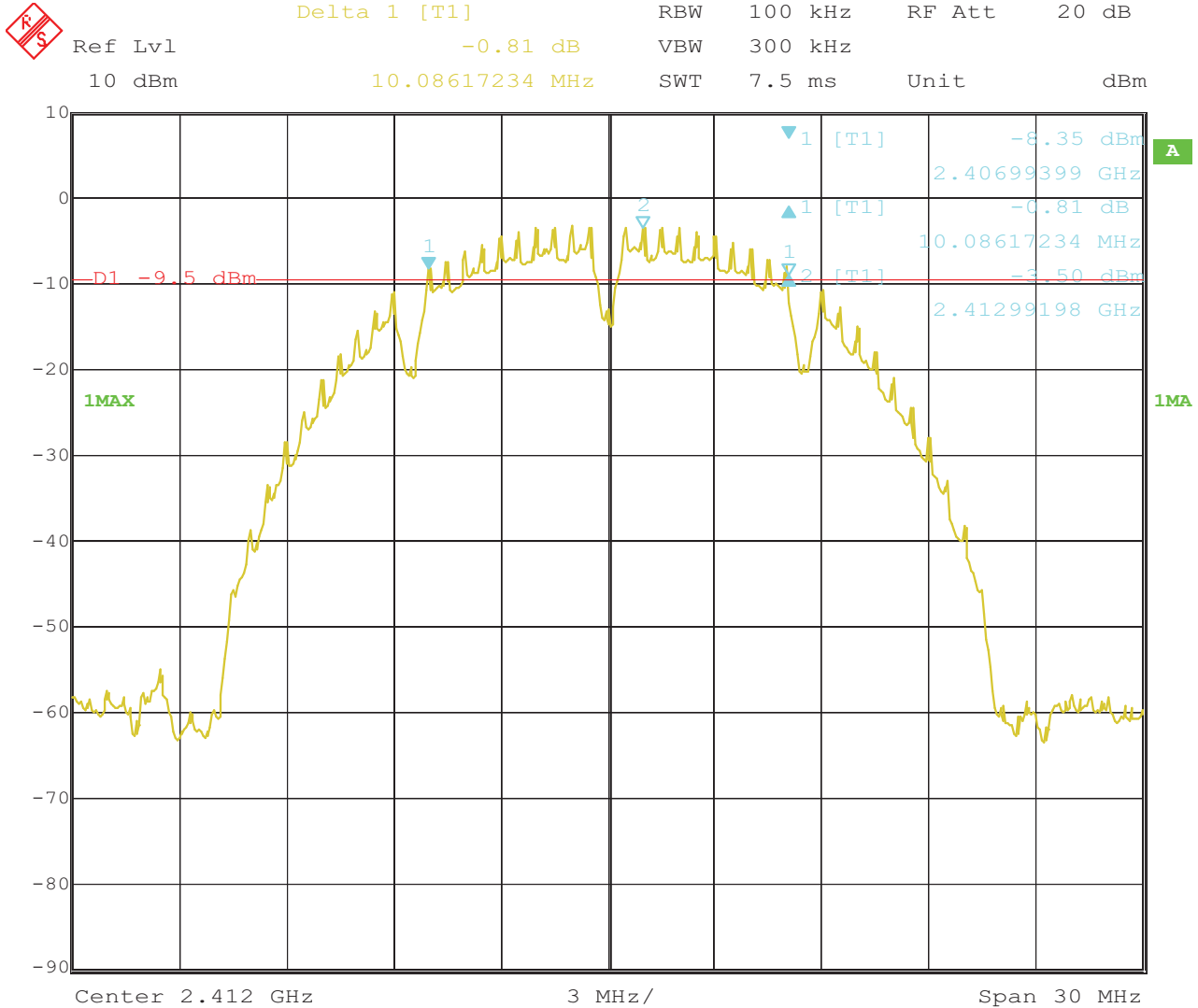
**6dB Occupied Bandwidth**

EUT		MID		Model		TE116C0, D2-1161G	
Mode		802.11b		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	1	10.09	0.5	Pass		
6	2437	1	10.04	0.5	Pass		
11	2462	1	10.04	0.5	Pass		
1	2412	11	10.22	0.5	Pass		
6	2437	11	10.22	0.5	Pass		
11	2462	11	10.22	0.5	Pass		

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1. 802.11b at 1Mbps of CH01



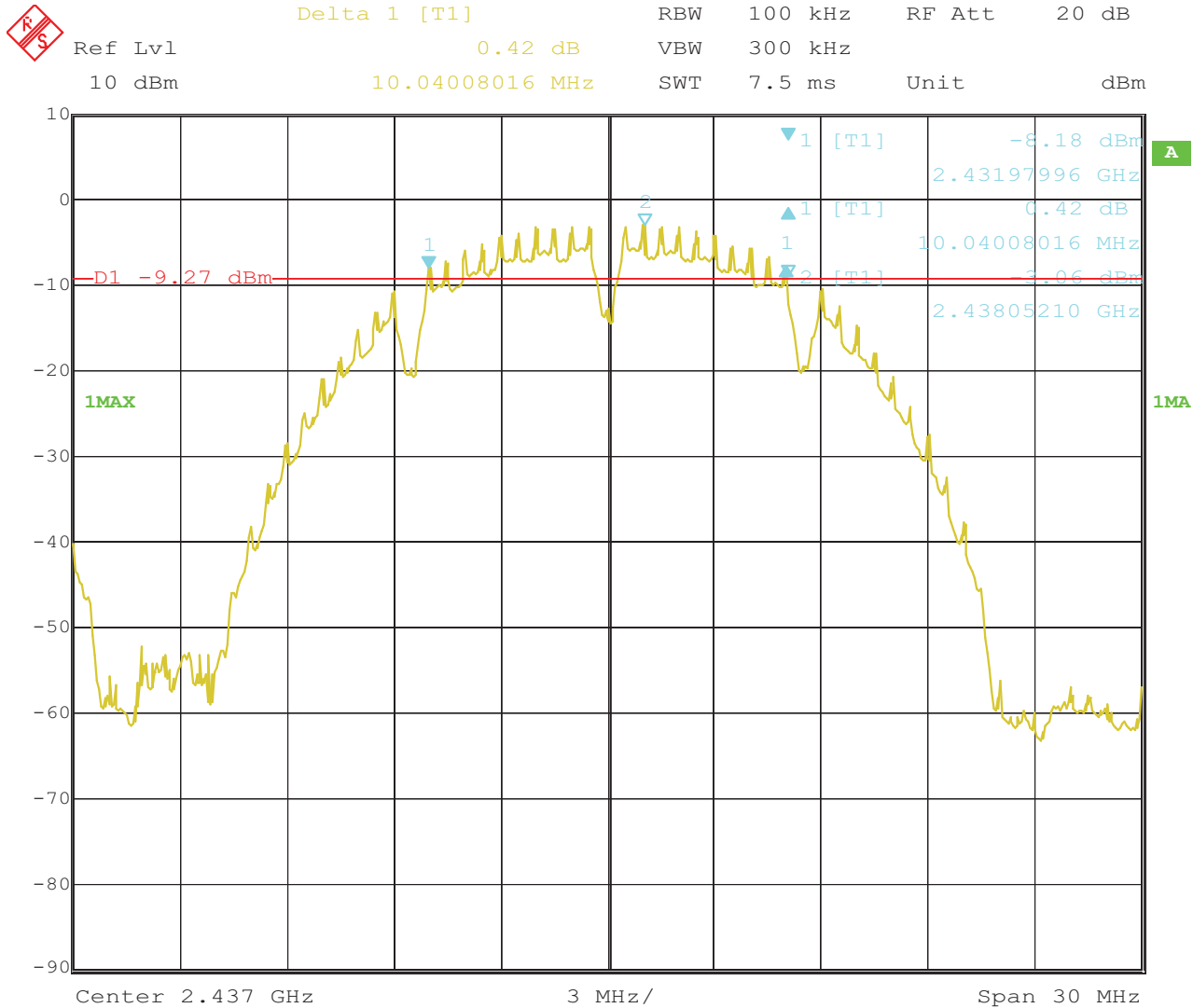
Date: 28.SEP.2015 17:02:13

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2. 802.11b at 1Mbps of CH06

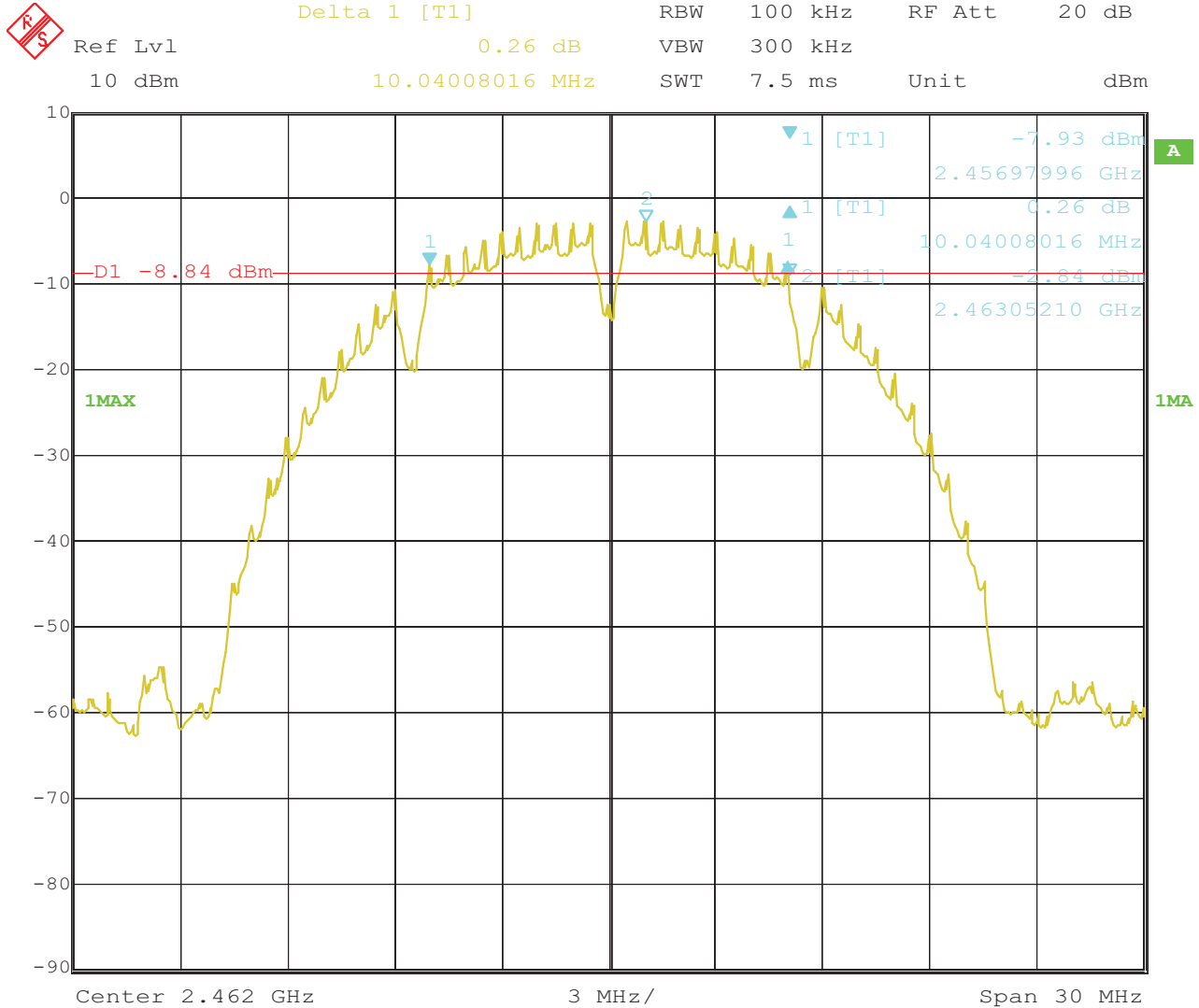


Date: 28.SEP.2015 17:16:48

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3. 802.11b at 1Mbps of CH11



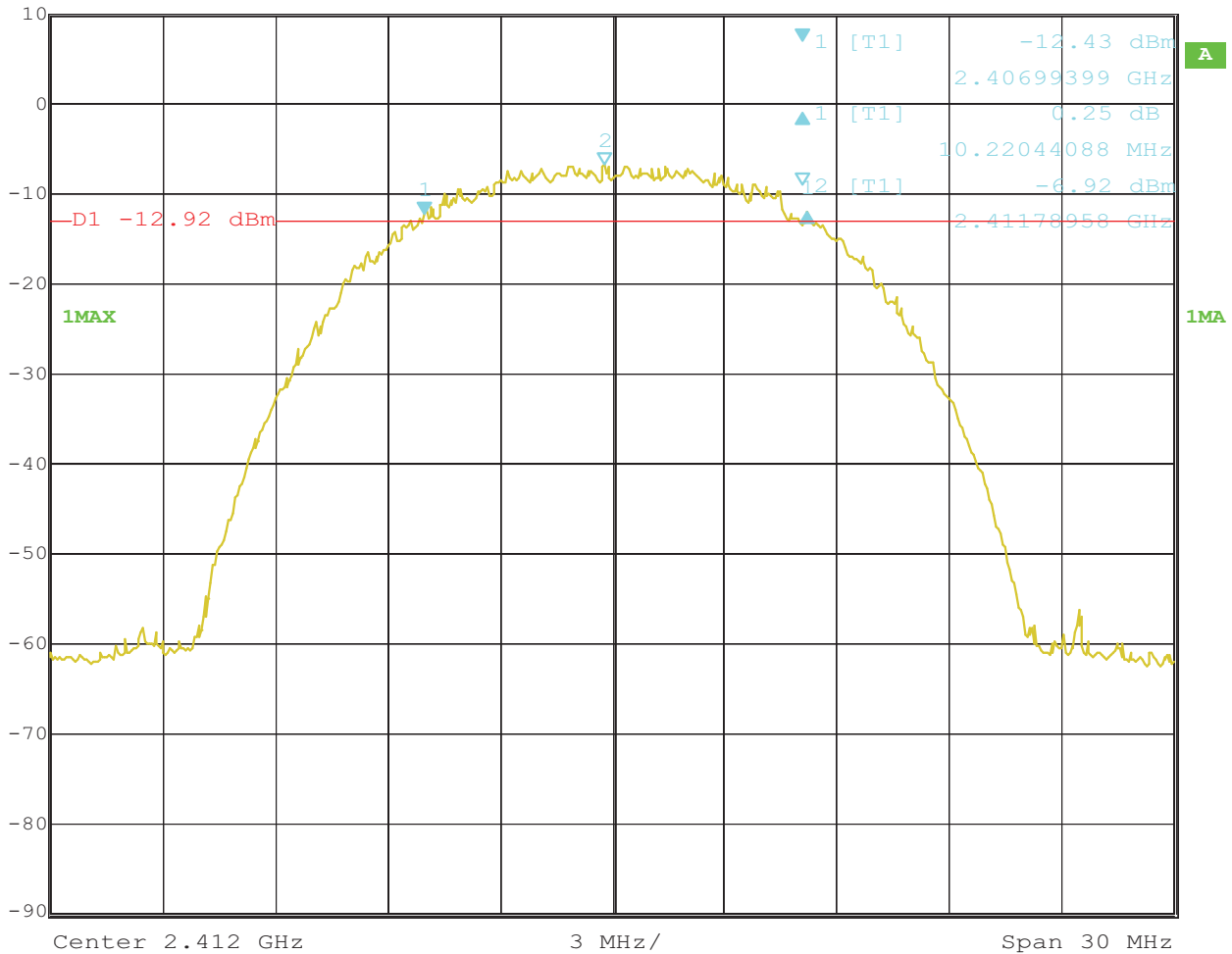
Date: 28.SEP.2015 17:19:27

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4. 802.11b at 11Mbps of CH01

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	0.25 dB	VBW	300 kHz	
	10 dBm	10.22044088 MHz	SWT	7.5 ms	Unit



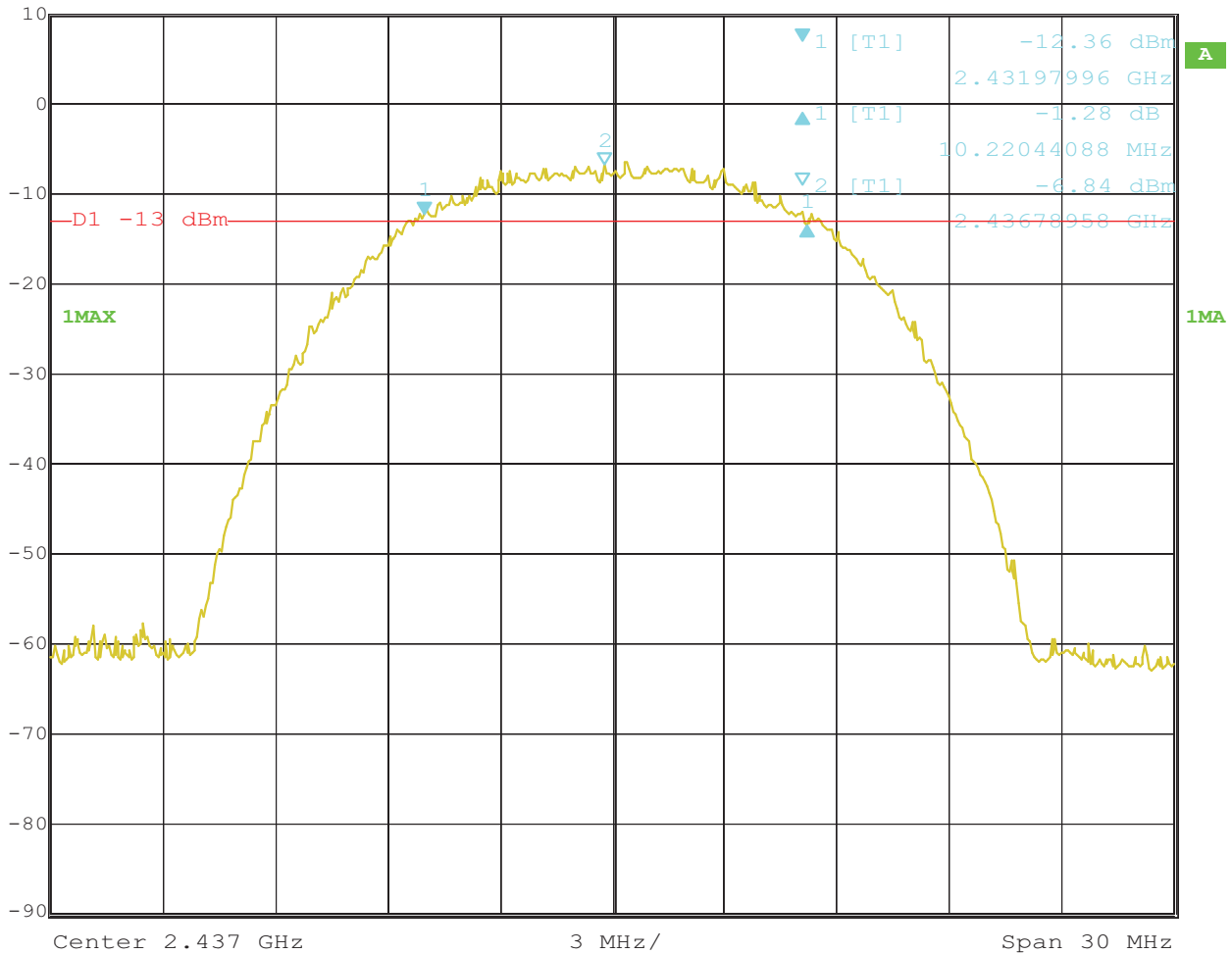
Date: 28.SEP.2015 17:10:31

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5. 802.11b at 11Mbps of CH06

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	-1.28 dB	VBW	300 kHz	
	10 dBm	10.22044088 MHz	SWT	7.5 ms	Unit dBm



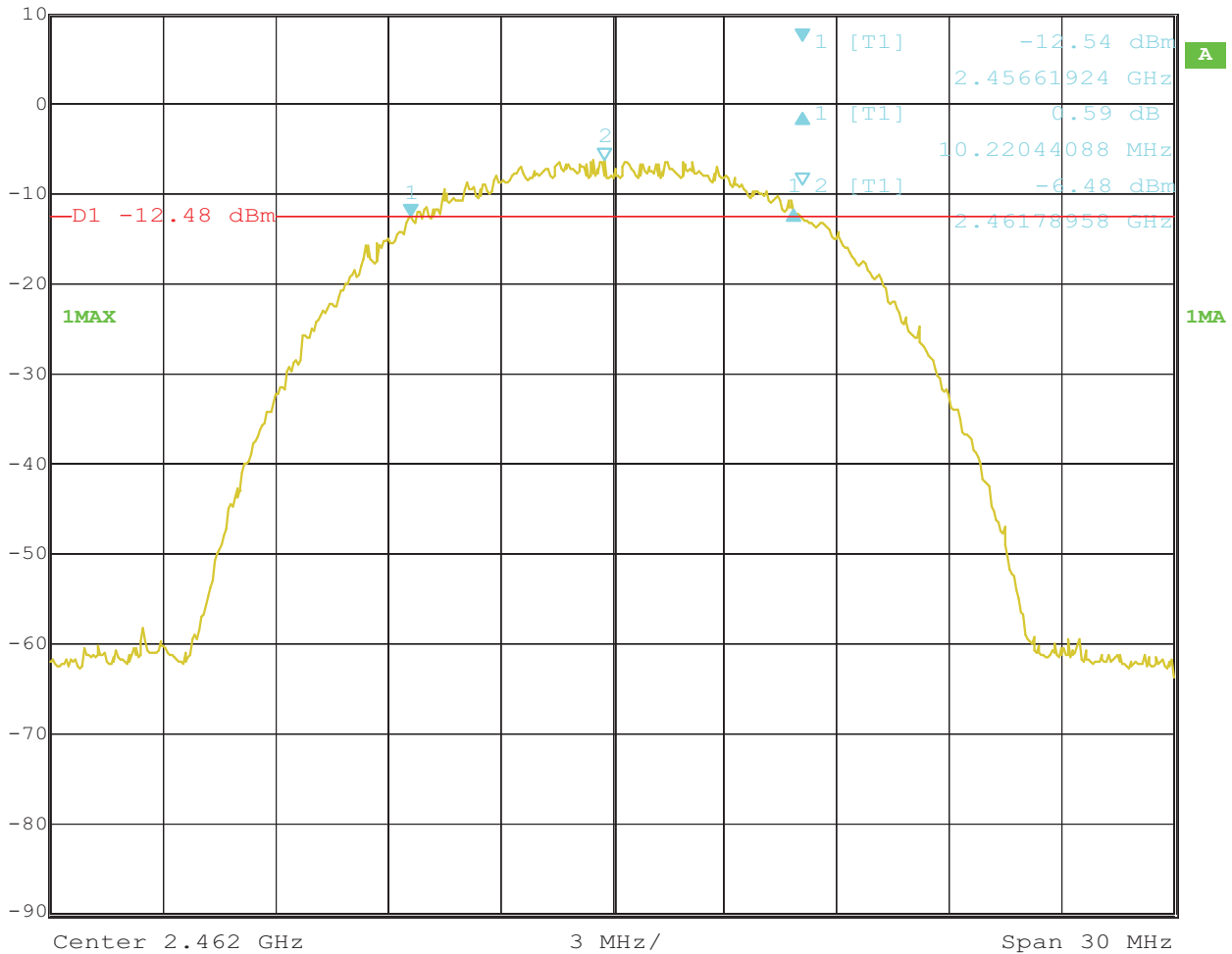
Date: 28.SEP.2015 17:12:55

The report refers only to the sample tested and does not apply to the bulk.  
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6. 802.11b at 11Mbps of CH11

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	0.59 dB	VBW	300 kHz	
	10 dBm	10.22044088 MHz	SWT	7.5 ms	Unit



Date: 28.SEP.2015 17:24:22

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**6dB Occupied Bandwidth**

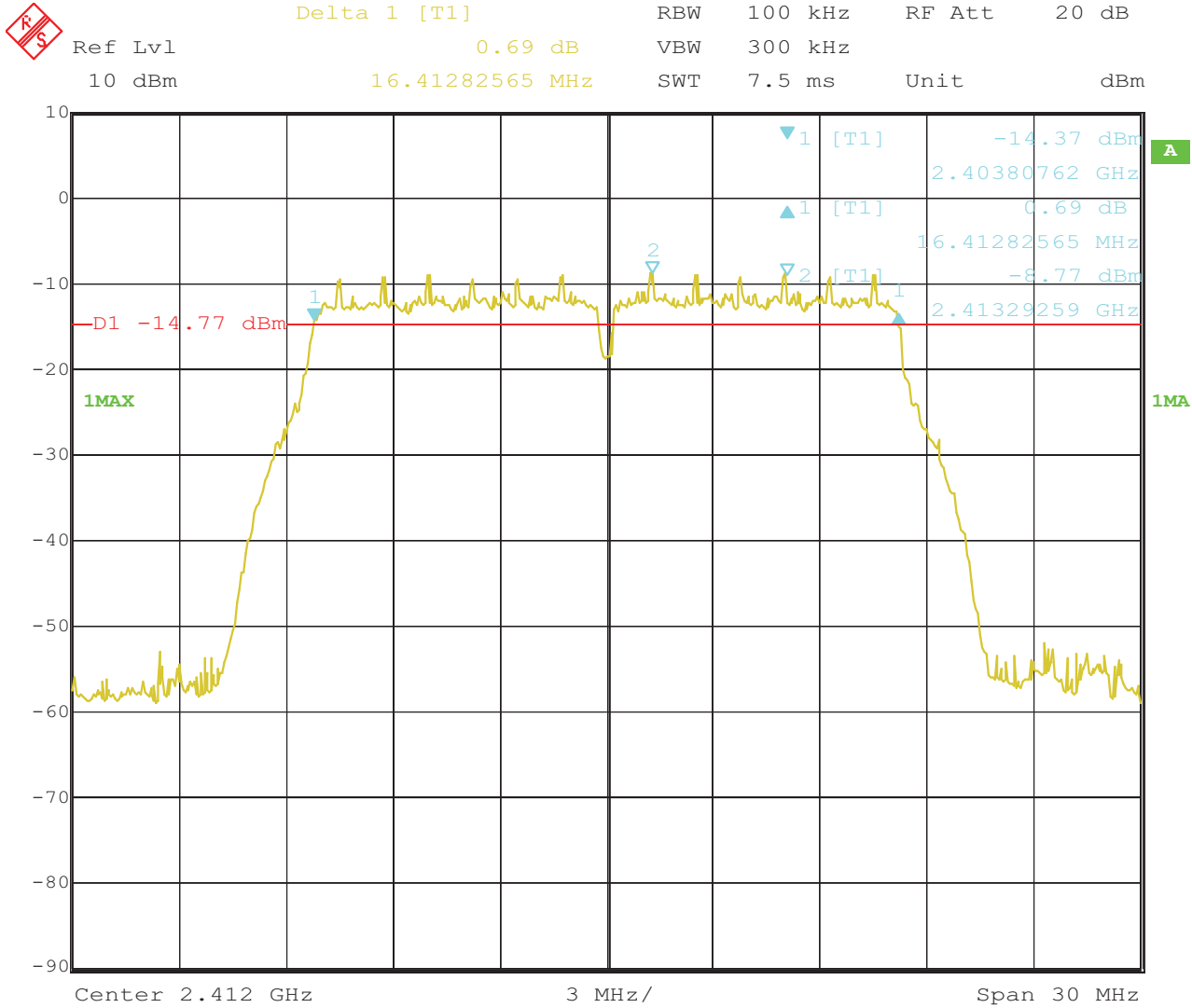
EUT		MID		Model	TE116C0, D2-1161G
Mode		802.11g		Input Voltage	DC3.7V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	54	16.41	0.5	Pass
6	2437	54	16.41	0.5	Pass
11	2462	54	16.41	0.5	Pass

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**Test Plots:**

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



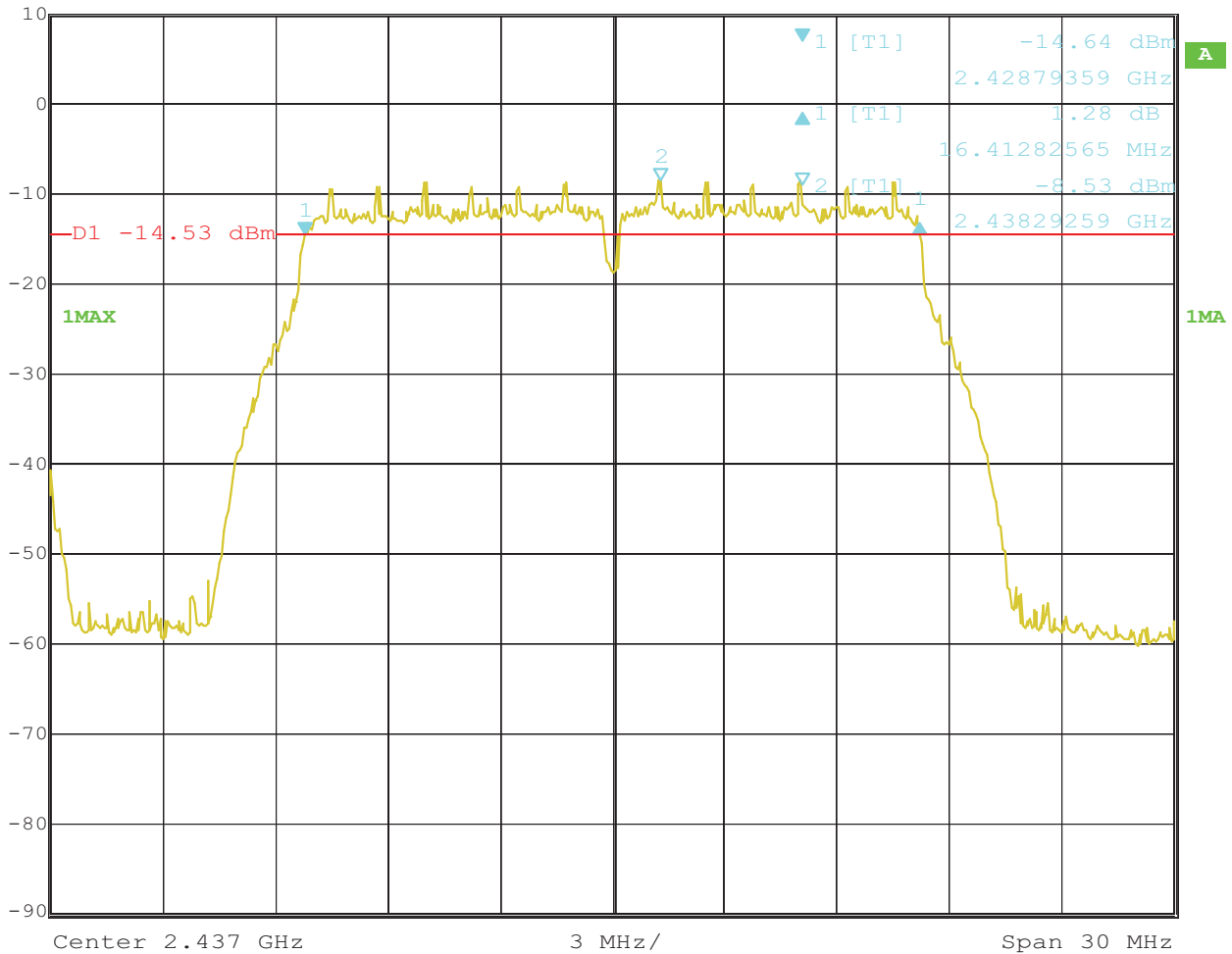
Date: 28.SEP.2015 17:06:14

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2. 802.11g at 54Mbps of CH06

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	1.28 dB	VBW	300 kHz	
	10 dBm	16.41282565 MHz	SWT	7.5 ms	Unit dBm



Date: 28.SEP.2015 17:14:48

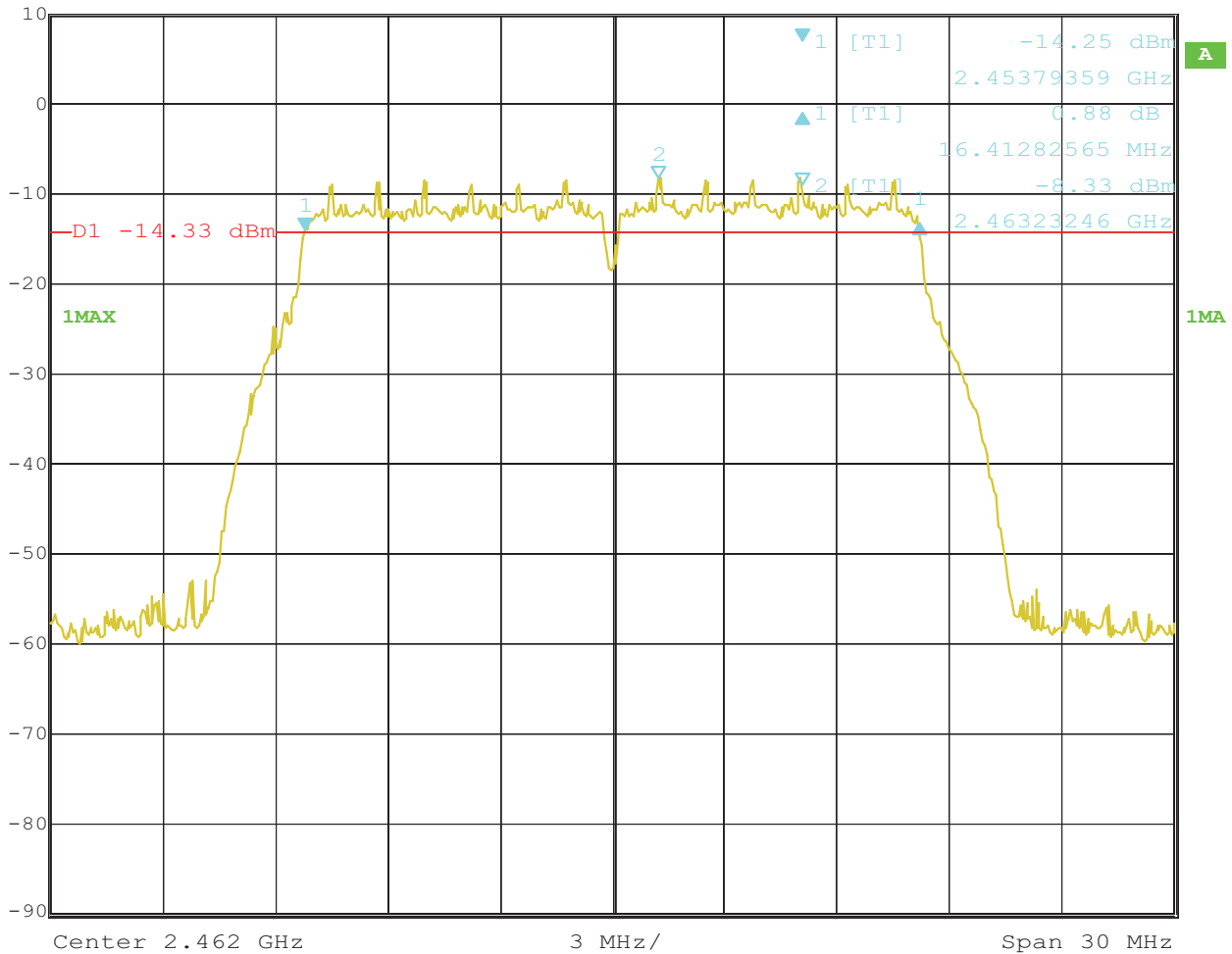
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**3. 802.11g at 54Mbps of CH11**

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	0.88 dB	VBW	300 kHz	
	10 dBm	16.41282565 MHz	SWT	7.5 ms	Unit



Date: 28.SEP.2015 17:21:55

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**6dB Occupied Bandwidth**

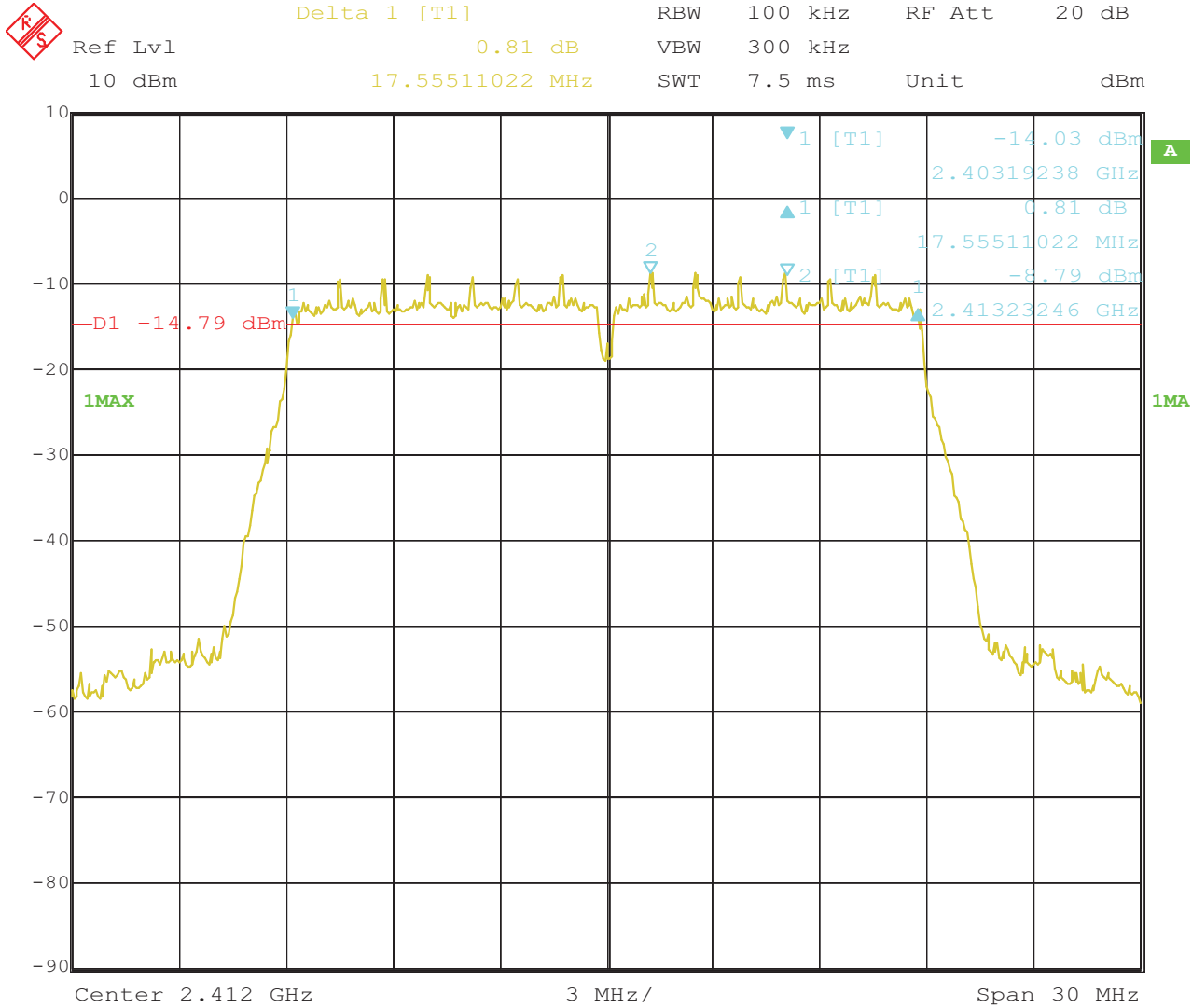
EUT		MID		Model		TE116C0, D2-1161G	
Mode		802.11n HT20		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	6.5M	17.56	0.5	Pass		
6	2437	6.5M	17.56	0.5	Pass		
11	2462	6.5M	17.56	0.5	Pass		

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**Test Plots:**

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



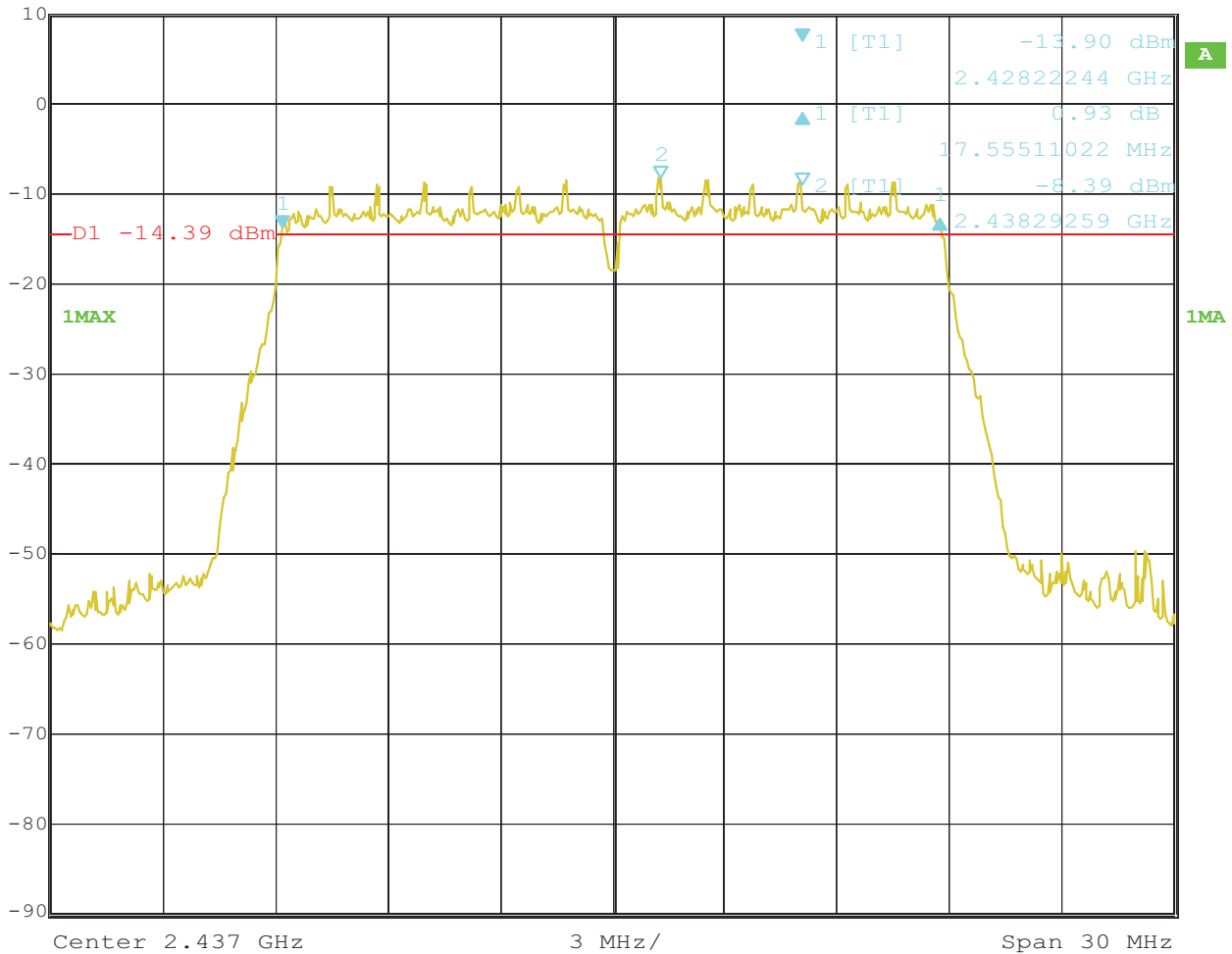
Date: 28.SEP.2015 18:02:34

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2. 802.11n at HT20 of CH06

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	0.93 dB	VBW	300 kHz	
	10 dBm	17.55511022 MHz	SWT	7.5 ms	Unit dBm



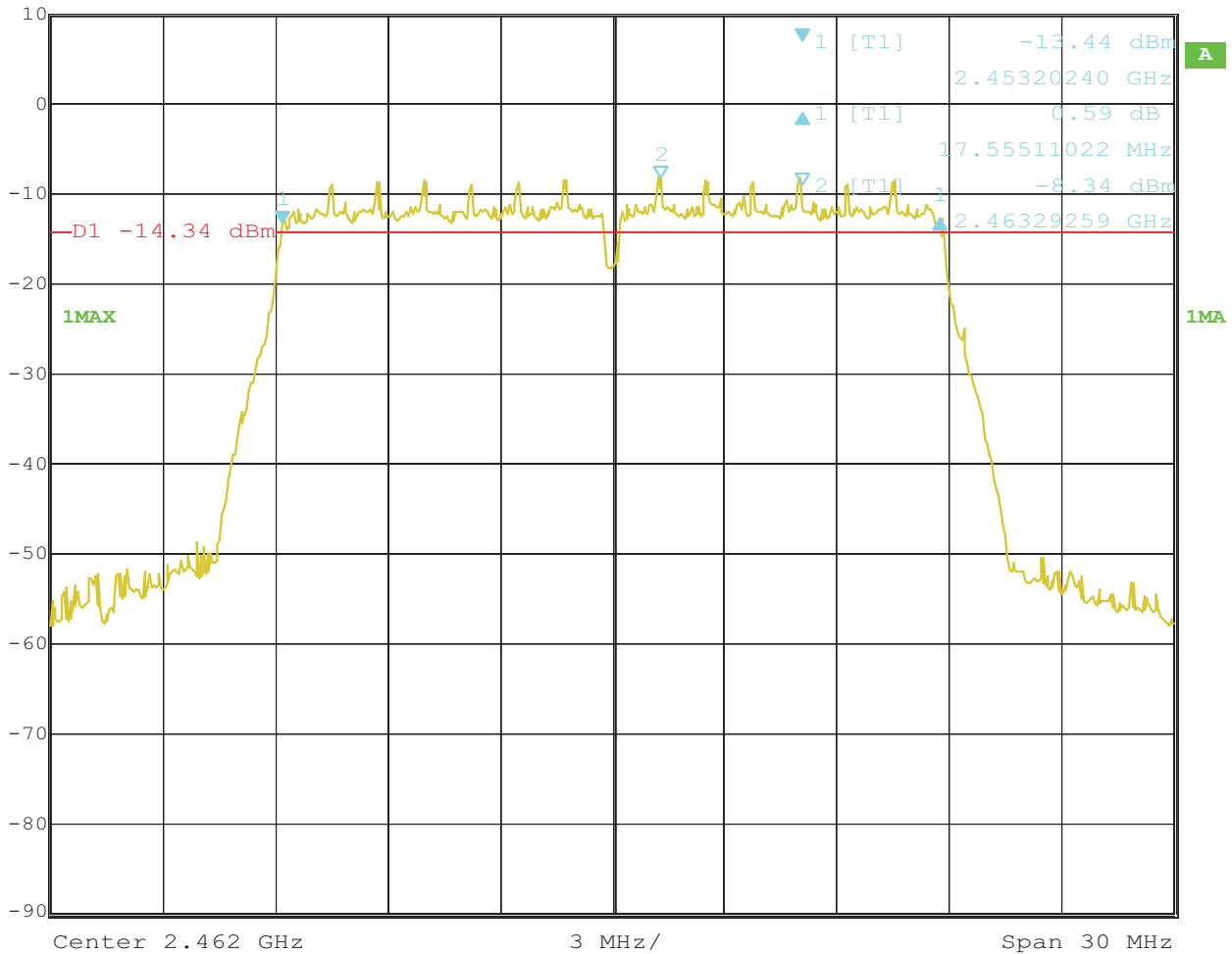
Date: 28.SEP.2015 18:21:08

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3. 802.11n at HT20 of CH11

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	0.59 dB	VBW	300 kHz	
	10 dBm	17.55511022 MHz	SWT	7.5 ms	Unit dBm



Date: 28.SEP.2015 17:59:56

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**6dB Occupied Bandwidth**

EUT		MID		Model	TE116C0, D2-1161G
Mode		802.11n HT40		Input Voltage	DC3.7V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2422	6.5M	36.21	0.5	Pass
4	2437	6.5M	36.21	0.5	Pass
7	2452	6.5M	36.21	0.5	Pass

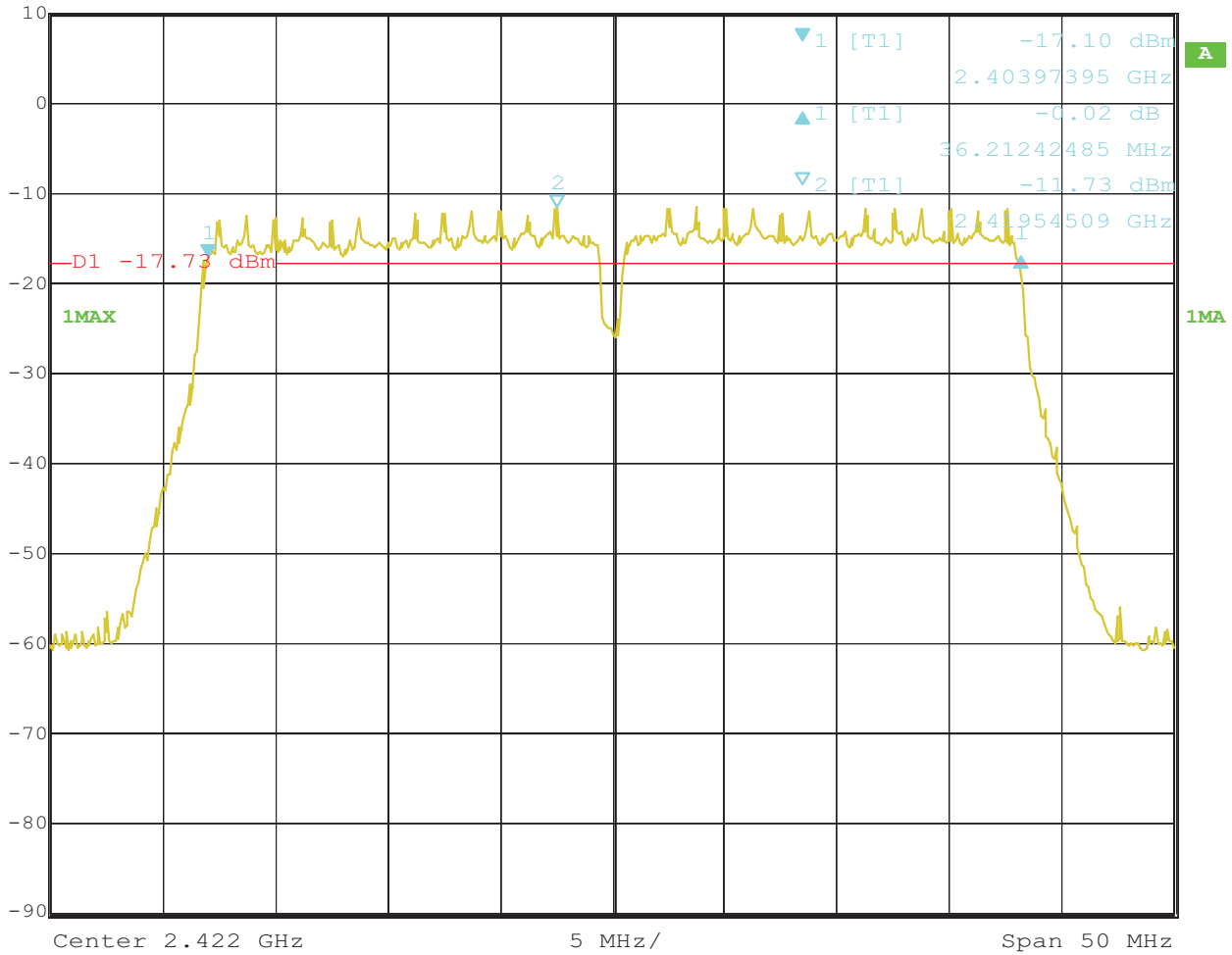
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**Test Plots:**

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

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	-0.02 dB	VBW	300 kHz	
	10 dBm	36.21242485 MHz	SWT	12.5 ms	Unit



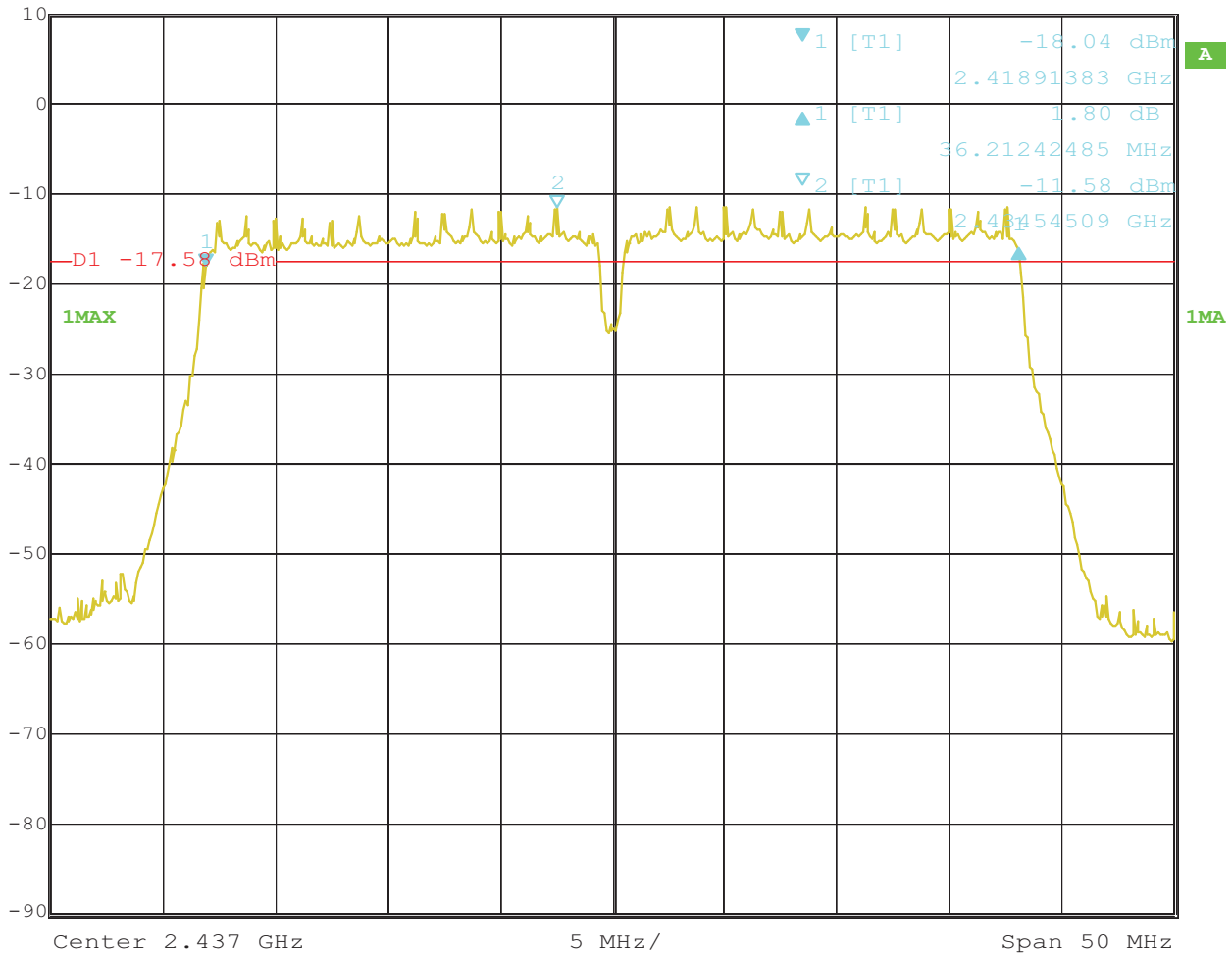
Date: 28.SEP.2015 18:06:19

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2. 802.11n at HT40 of CH04

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	1.80 dB	VBW	300 kHz	
	10 dBm	36.21242485 MHz	SWT	12.5 ms	Unit dBm



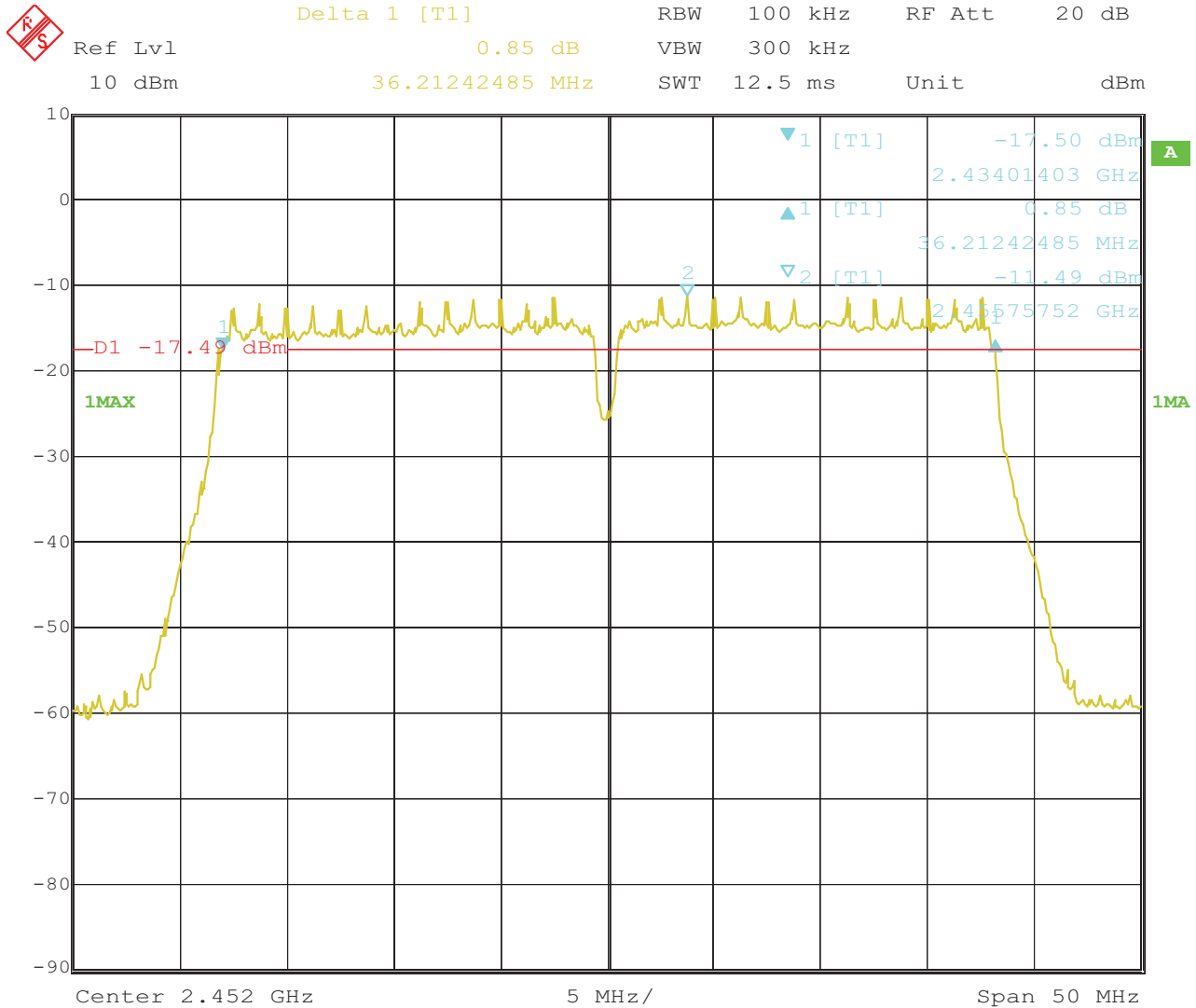
Date: 28.SEP.2015 18:11:59

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3. 802.11n at HT40 of CH07



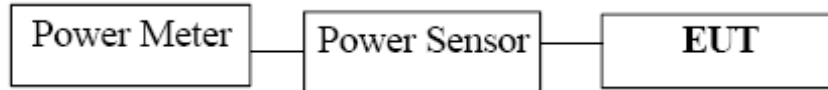
Date: 28.SEP.2015 18:16:20

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## 8. Maximum Output Power

### 8.1 Test Setup



### 8.2 Limits of Maximum Output Power

The Maximum 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	TE116C0, D2-1161G	
Mode	802.11b	Input Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
1	2412	8.00	30	Pass
6	2437	8.18	30	Pass
11	2462	8.54	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:

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

3. The worse case was recorded

EUT	MID	Model	TE116C0, D2-1161G	
Mode	802.11g	Input Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
1	2412	9.15	30	Pass
6	2437	9.33	30	Pass
11	2462	9.63	30	Pass

Note: 1. At final test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

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EUT	MID	Model	TE116C0, D2-1161G	
Mode	802.11n (HT20)	Input Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
1	2412	9.25	30	Pass
6	2437	9.56	30	Pass
11	2462	9.69	30	Pass

- Note: 1. At final test to get the worst-case emission at 6.5Mbps of 11n HT20 for CH01, CH06 and CH11  
 2. The result basic equation calculation as follow:  
 Max. Power Output = Power Reading + Cable loss + Attenuator  
 3. The worse case was recorded

EUT	MID	Model	TE116C0, D2-1161G	
Mode	802.11n (HT40)	Input Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
1	2422	8.96	30	Pass
4	2437	9.18	30	Pass
7	2452	9.39	30	Pass

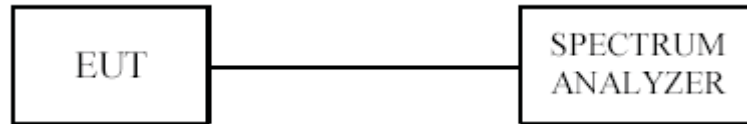
- Note: 1. At final test to get the worst-case emission at 6.5Mbps of 11n HT40 for CH01, CH04 and CH7  
 2. The result basic equation calculation as follow:  
 Max. Power Output = Power Reading + Cable loss + Attenuator  
 3. The worse case was recorded

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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	TE116C0, D2-1161G	
Mode	802.11b 1Mbps	Input Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
1Mbps				
1	2412	-16.31	8	Pass
6	2437	-16.78	8	Pass
11	2462	-19.36	8	Pass

EUT	MID	Model	TE116C0, D2-1161G	
Mode	802.11b 11Mbps	Input Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in (dBm)	Maximum Limit (dBm)	Pass/ Fail
11Mbps				
1	2412	-8.64	8	Pass
6	2437	-11.87	8	Pass
11	2462	-11.68	8	Pass

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EUT	MID	Model	TE116C0, D2-1161G	
Mode	802.11g 54Mbps	Input Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in (dBm)	Maximum Limit (dBm)	Pass/ Fail
54Mbps				
1	2412	-16.55	8	Pass
6	2437	-16.55	8	Pass
11	2462	-16.59	8	Pass

EUT	MID	Model	TE116C0, D2-1161G	
Mode	802.11n HT20 6.5Mbps	Input Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
HT20				
1	2412	-16.32	8	Pass
6	2437	-17.31	8	Pass
11	2462	-17.49	8	Pass

EUT	MID	Model	TE116C0, D2-1161G	
Mode	802.11n HT40 6.5Mbps	Input Voltage	DC3.7V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
HT40				
1	2422	-20.15	8	Pass
4	2437	-20.09	8	Pass
7	2452	-19.73	8	Pass

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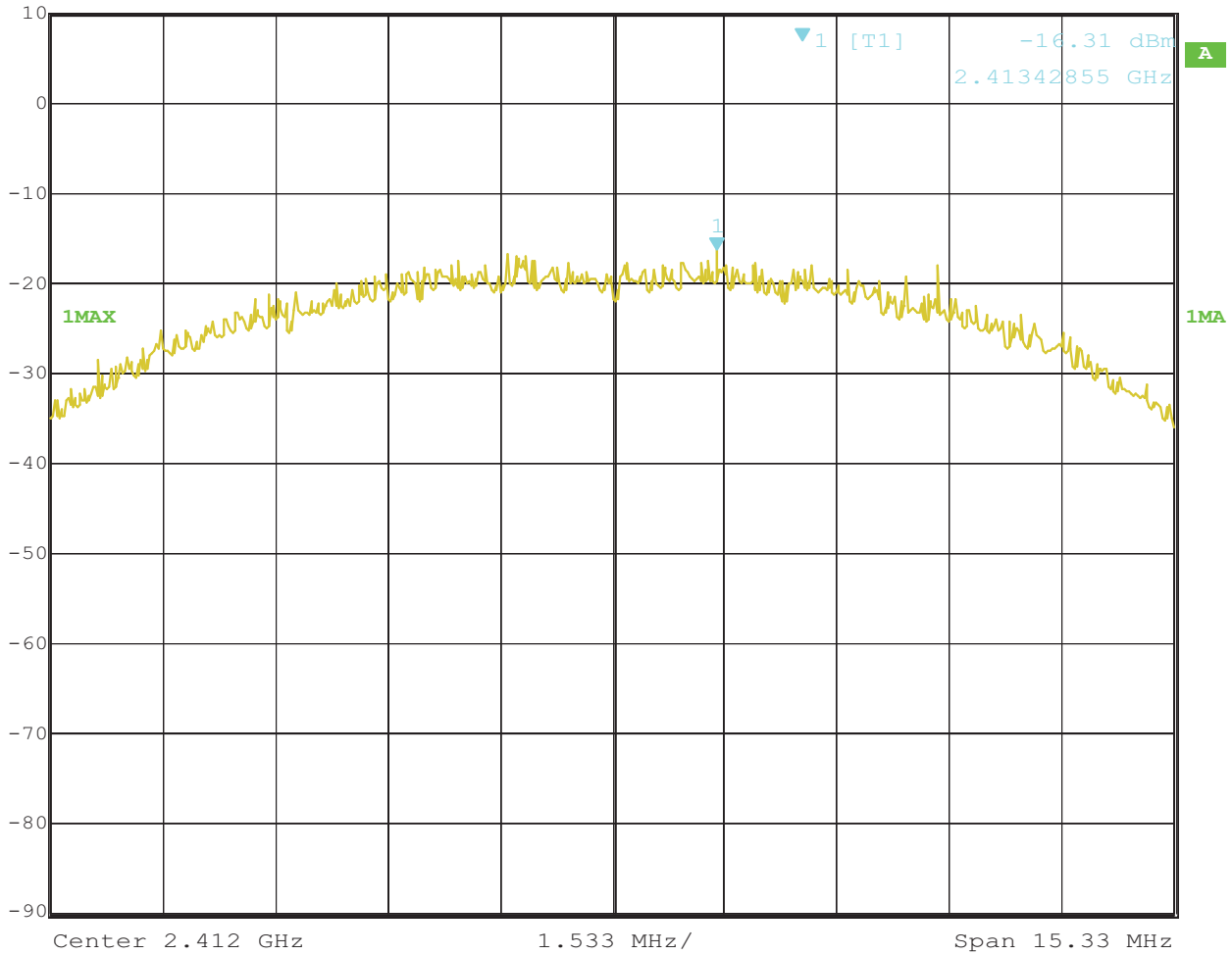
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### 9.5 Photo of Power Spectral Density Measurement

1.802.11b at 1Mbps of CH01

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-16.31 dBm	VBW	30 kHz	
	10 dBm	2.41342855 GHz	SWT	390 ms	Unit



Date: 29.SEP.2015 10:35:11

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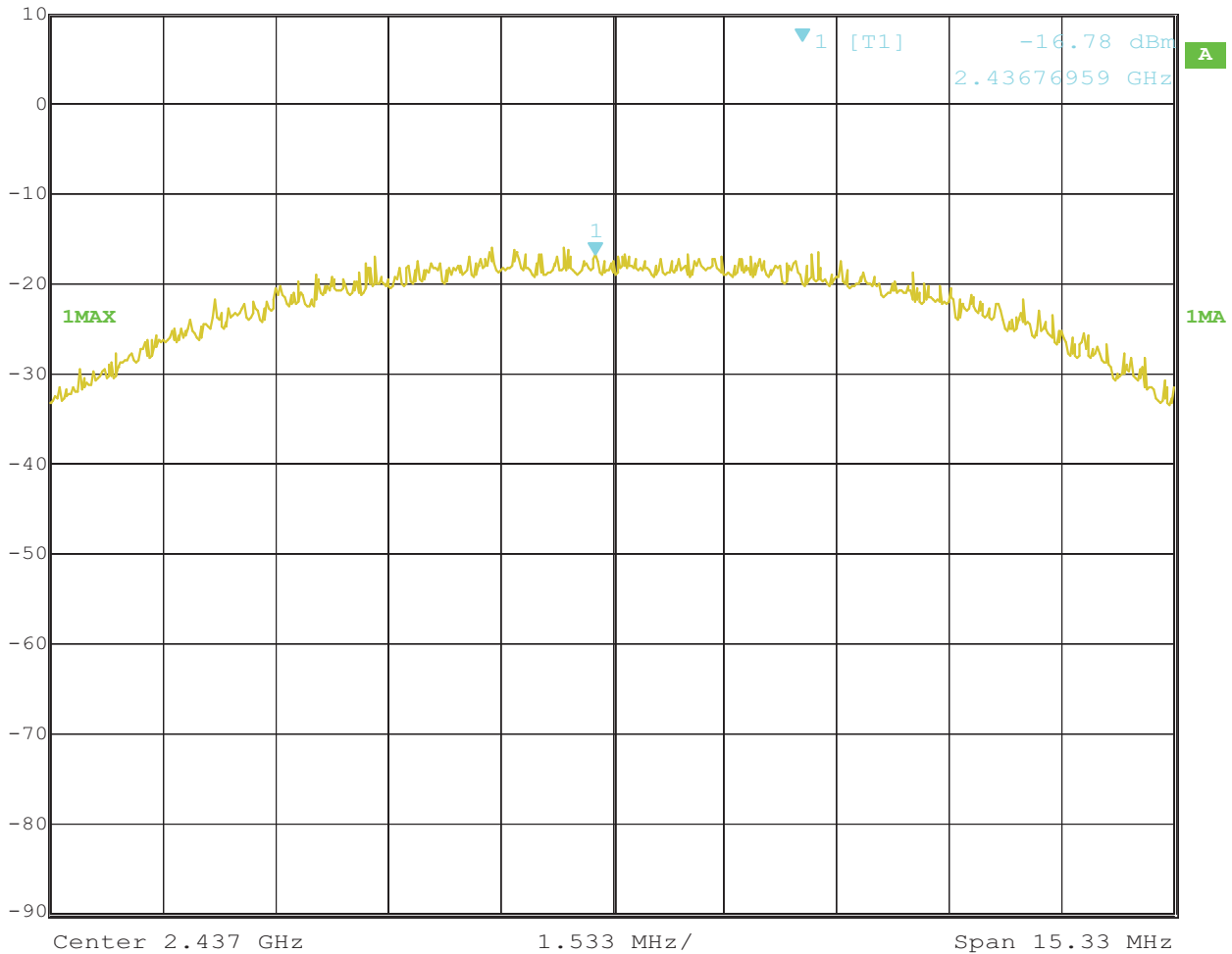




2. 802.11b at 1Mbps at CH06



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-16.78 dBm	VBW	30 kHz		
	2.43676959 GHz	SWT	390 ms	Unit	dBm



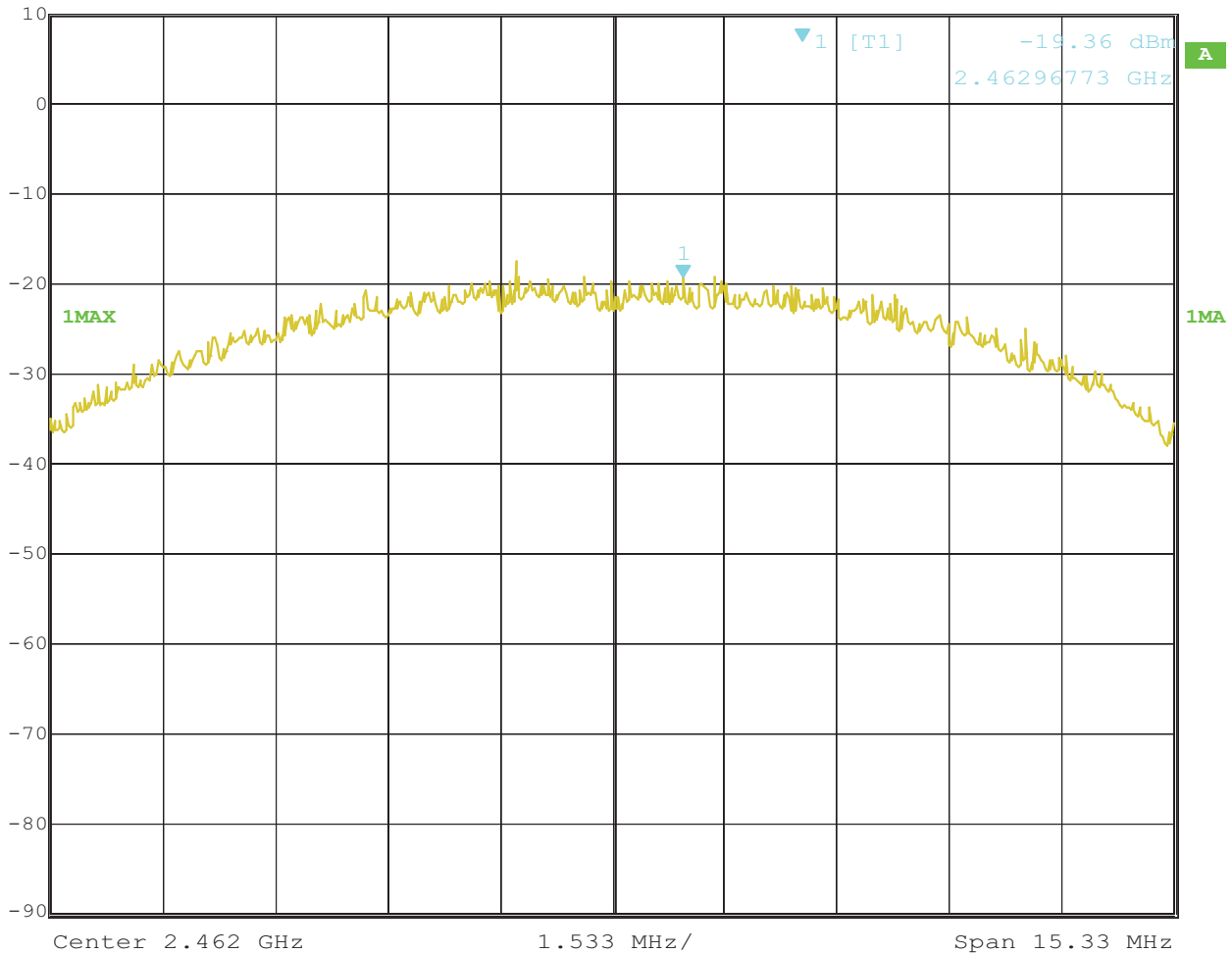
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3. 802.11b at 1Mbps of CH11

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-19.36 dBm	VBW	30 kHz	
	10 dBm	2.46296773 GHz	SWT	390 ms	Unit dBm

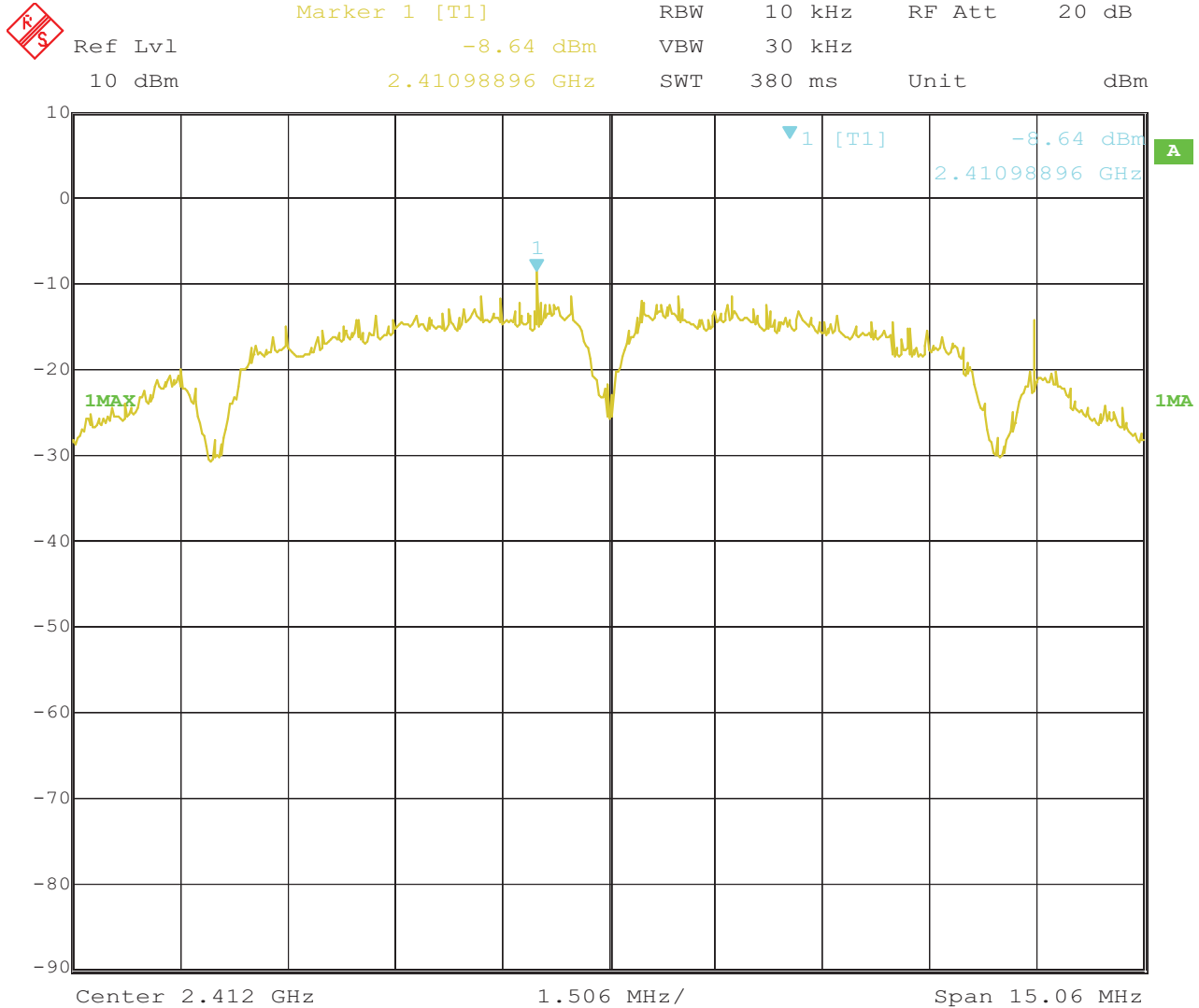


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4. 802.11b at 11Mbps of CH1

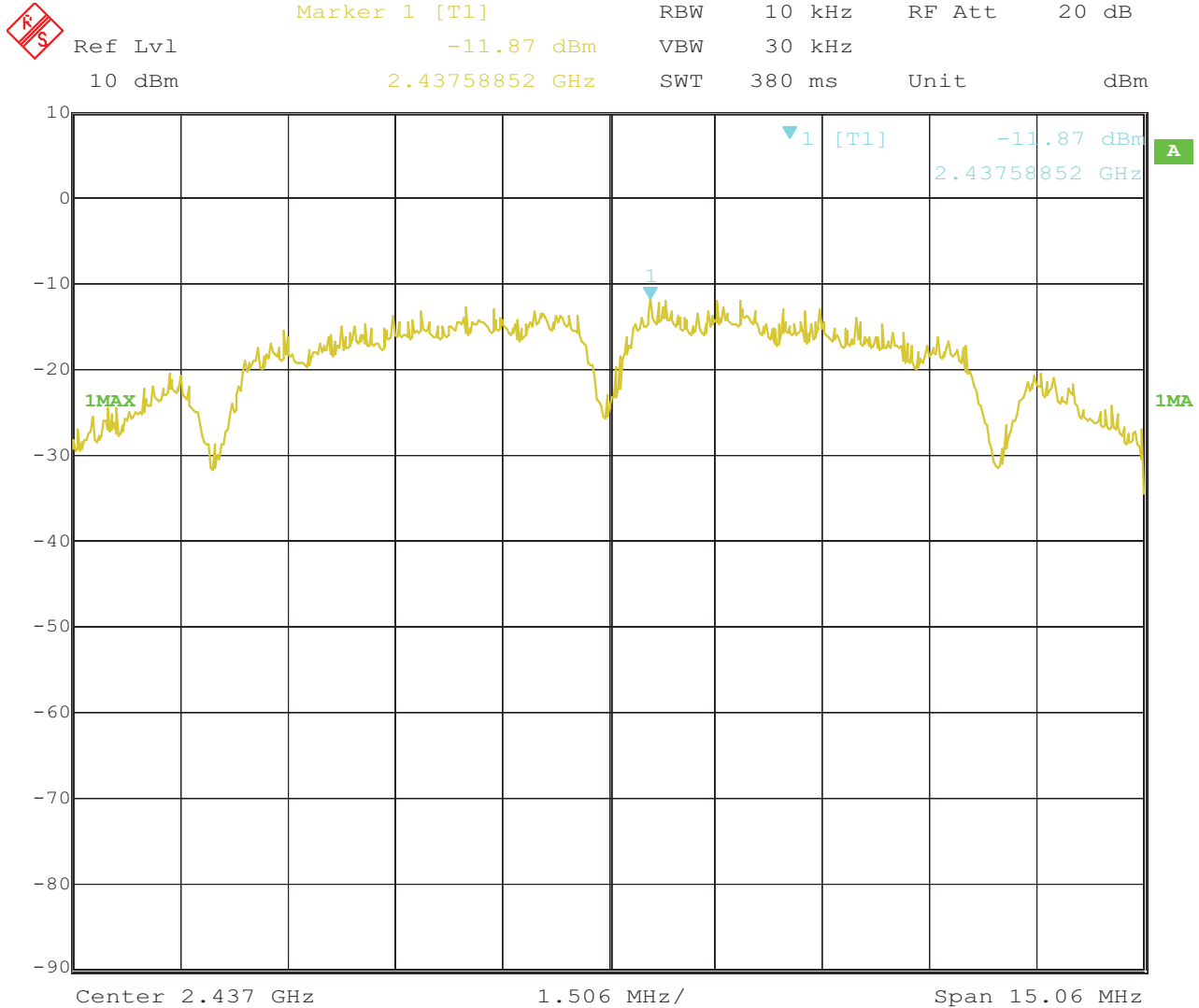


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5. 802.11b at 11Mbps of CH6

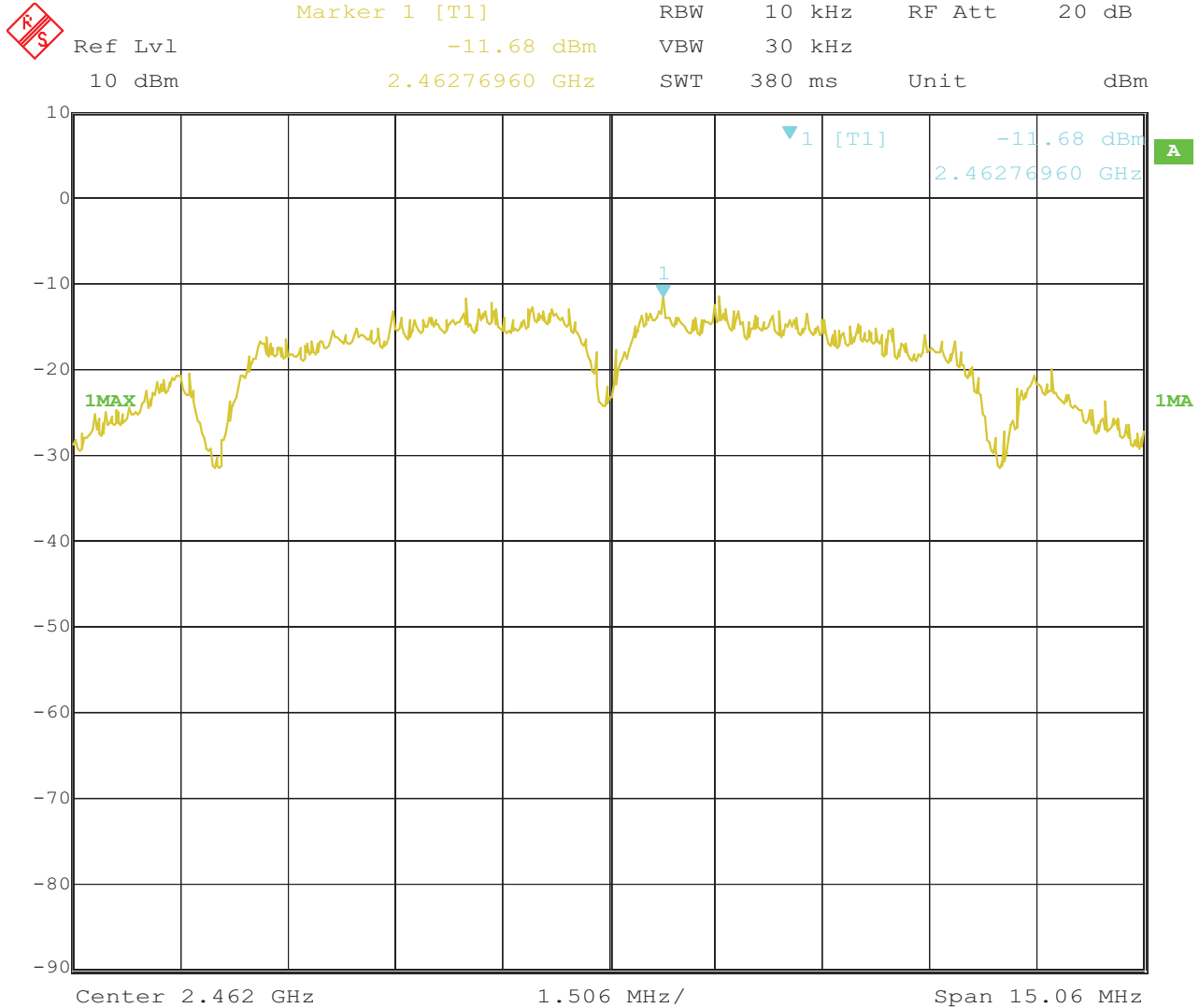


Date: 29.SEP.2015 10:26:46

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6. 802.11b at 11Mbps of CH11



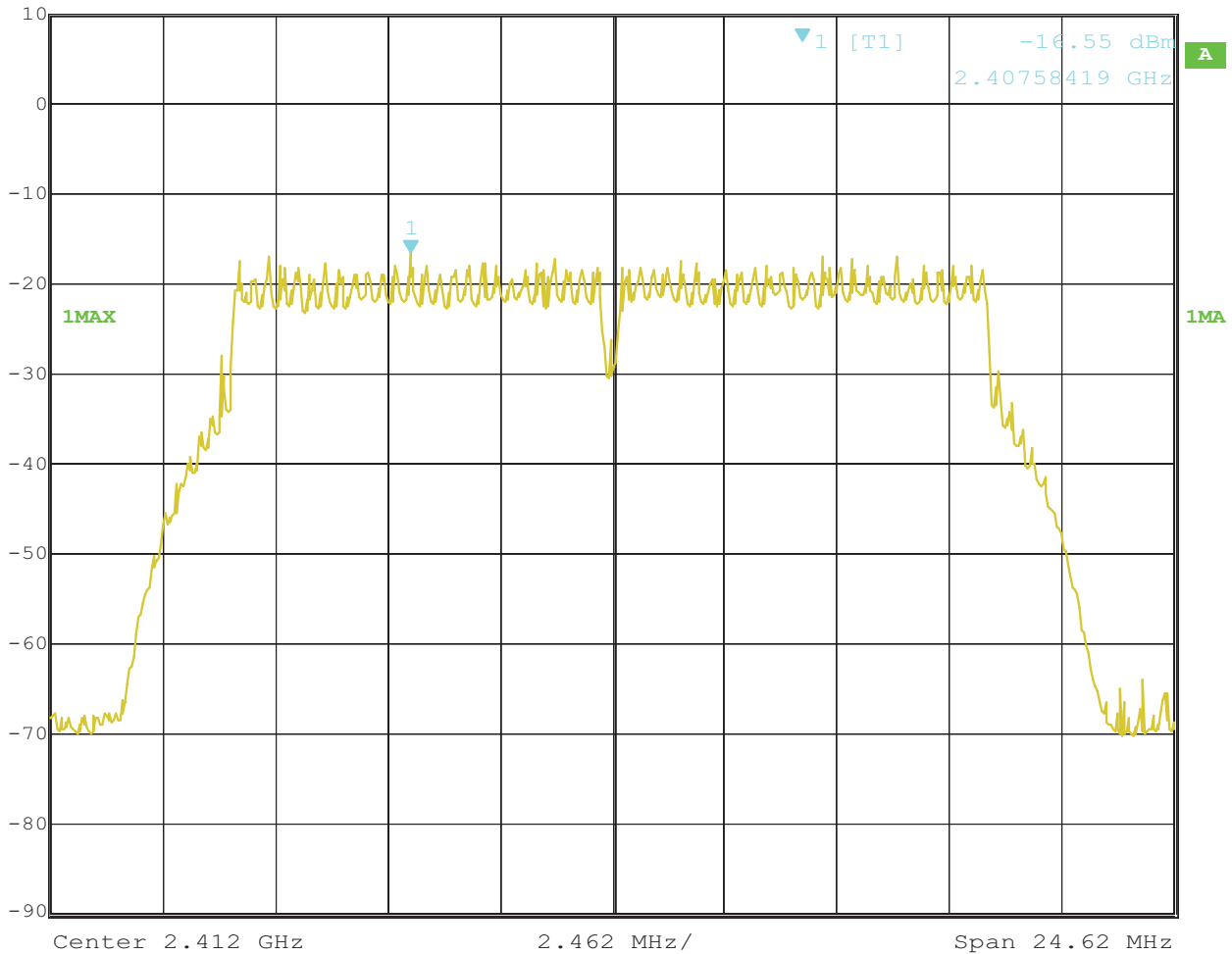
Date: 29.SEP.2015 10:27:15

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7. 802.11g at 54Mbps of CH1

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-16.55 dBm	VBW	30 kHz	
	10 dBm	2.40758419 GHz	SWT	620 ms	Unit dBm



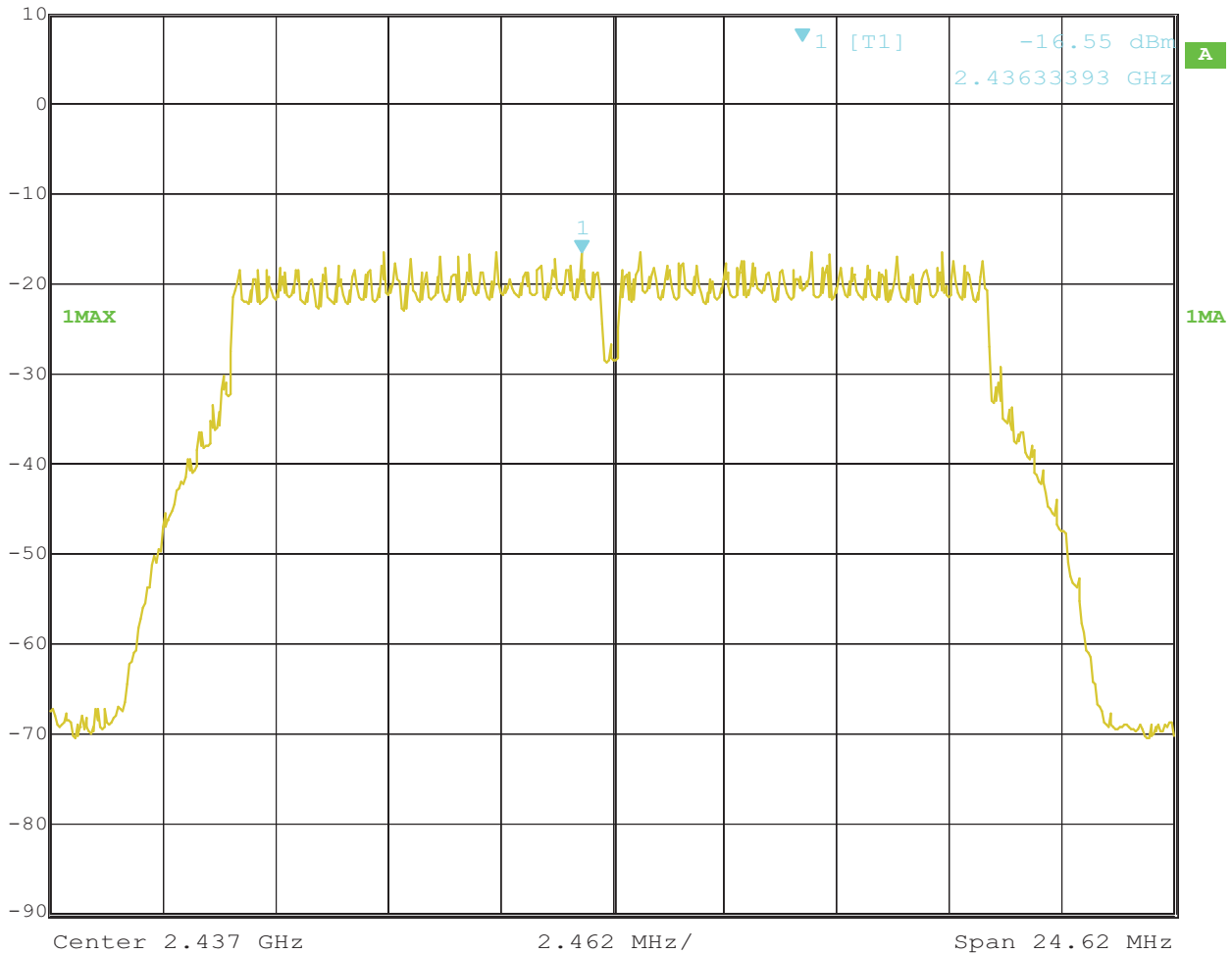
Date: 29.SEP.2015 10:31:48

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8. 802.11g at 54Mbps of CH6

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-16.55 dBm	VBW	30 kHz	
	10 dBm	2.43633393 GHz	SWT	620 ms	Unit dBm



Date: 29.SEP.2015 10:30:02

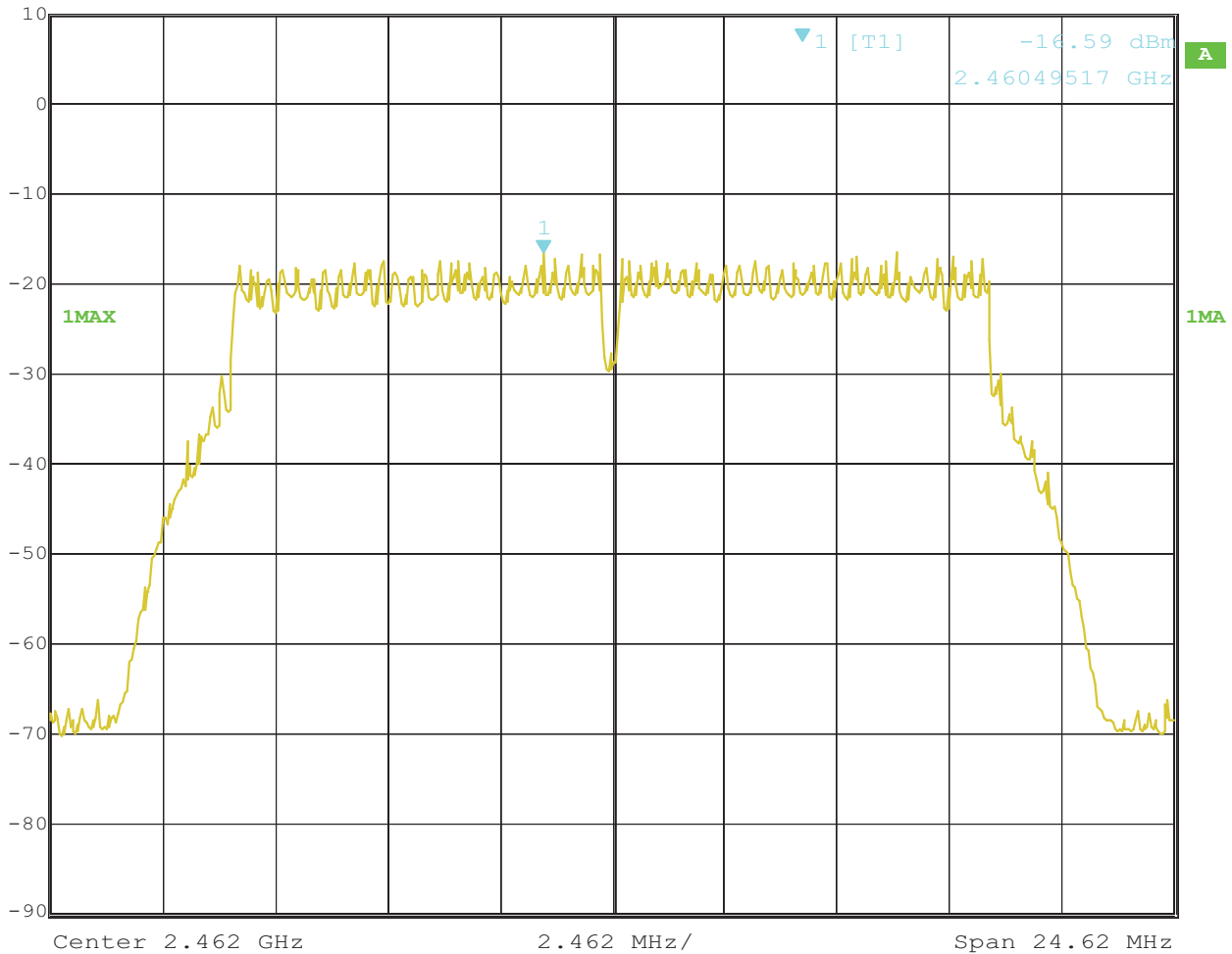
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9. 802.11g at 54Mbps of CH11



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-16.59 dBm	VBW	30 kHz		
	2.46049517 GHz	SWT	620 ms	Unit	dBm



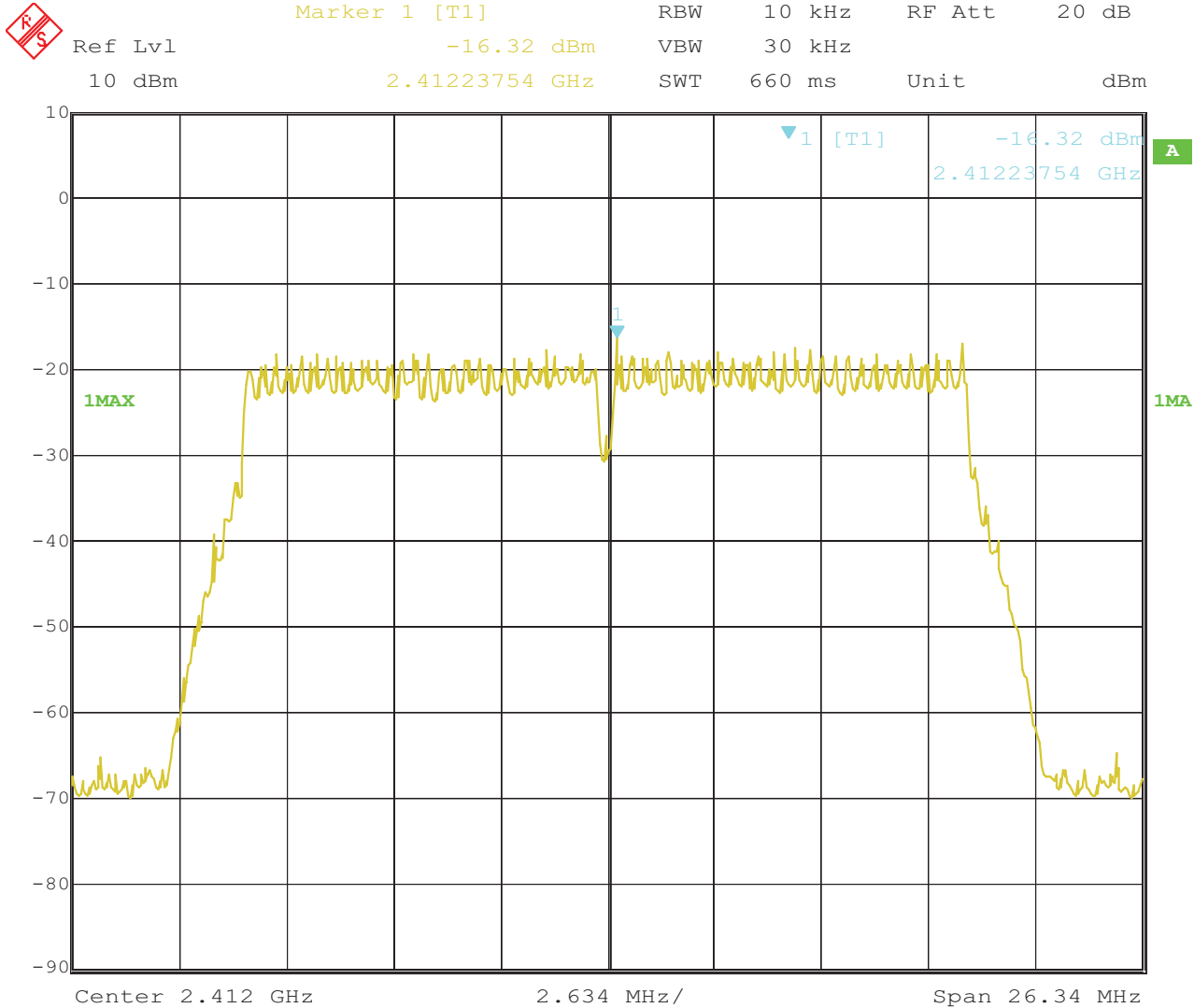
Date: 29.SEP.2015 10:28:22

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10. 802.11n at HT20 of CH01

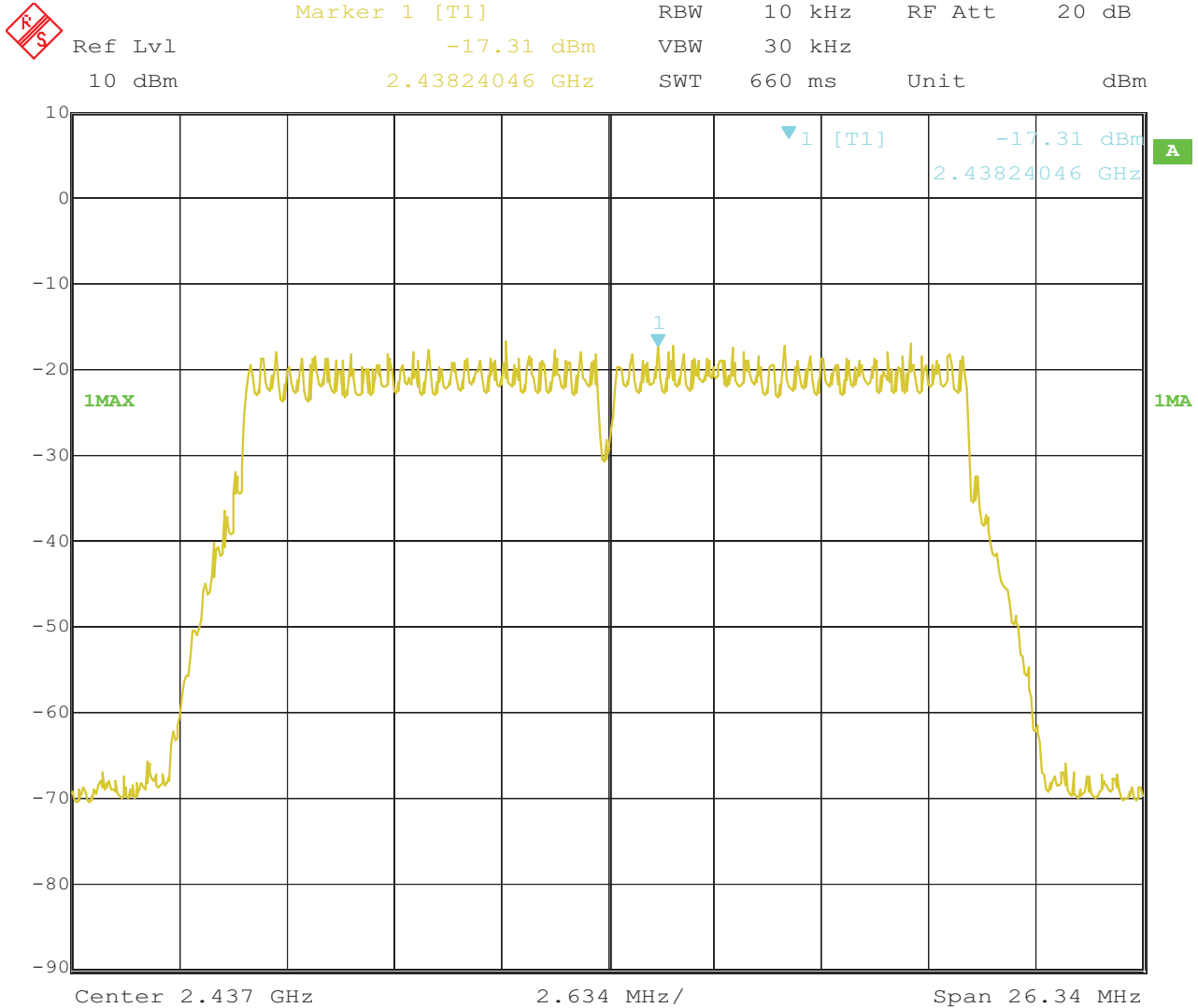


Date: 29.SEP.2015 10:42:56

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11. 802.11n at HT20 of CH06

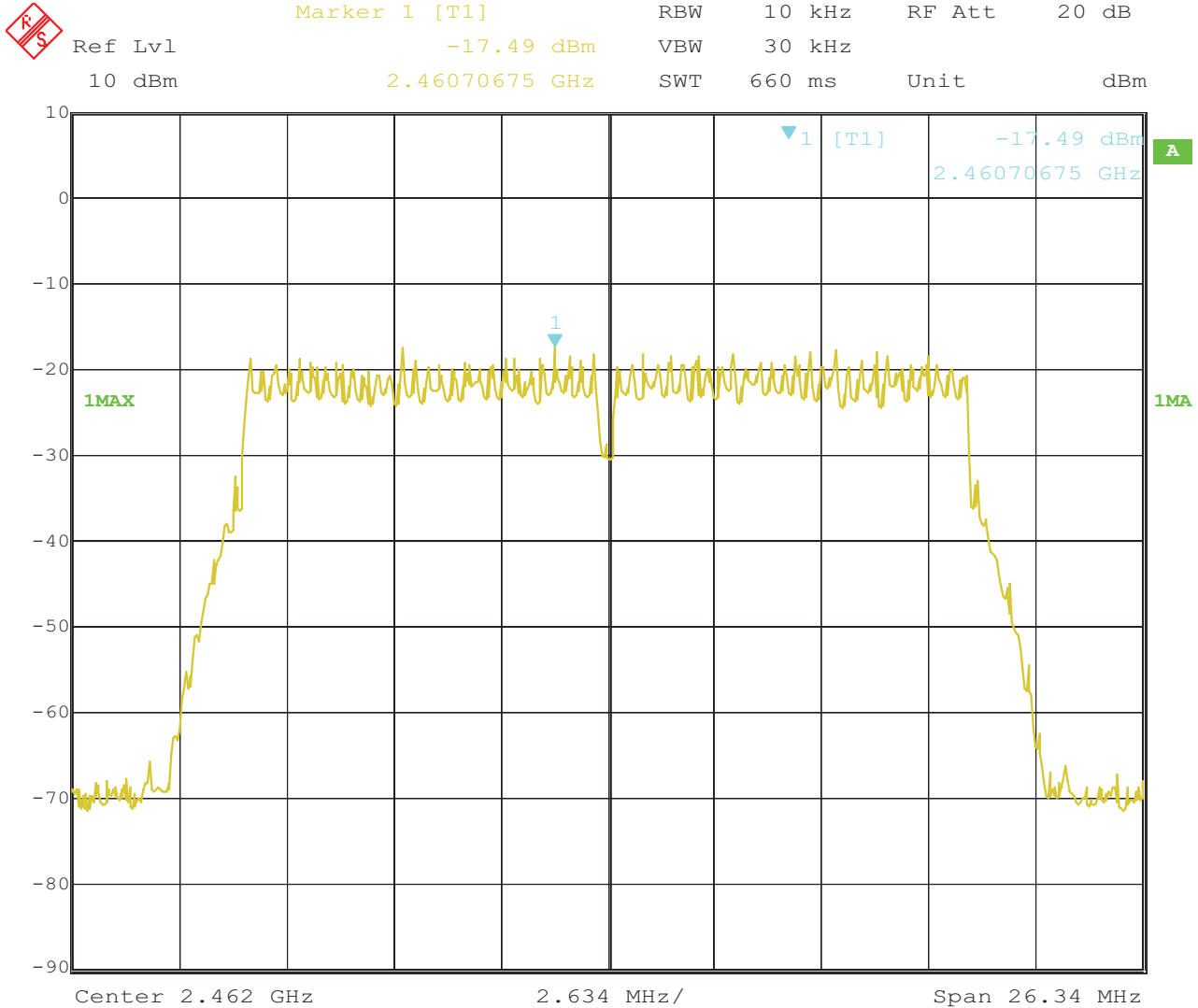


Date: 29.SEP.2015 10:40:42

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12. 802.11n at HT20 of CH11

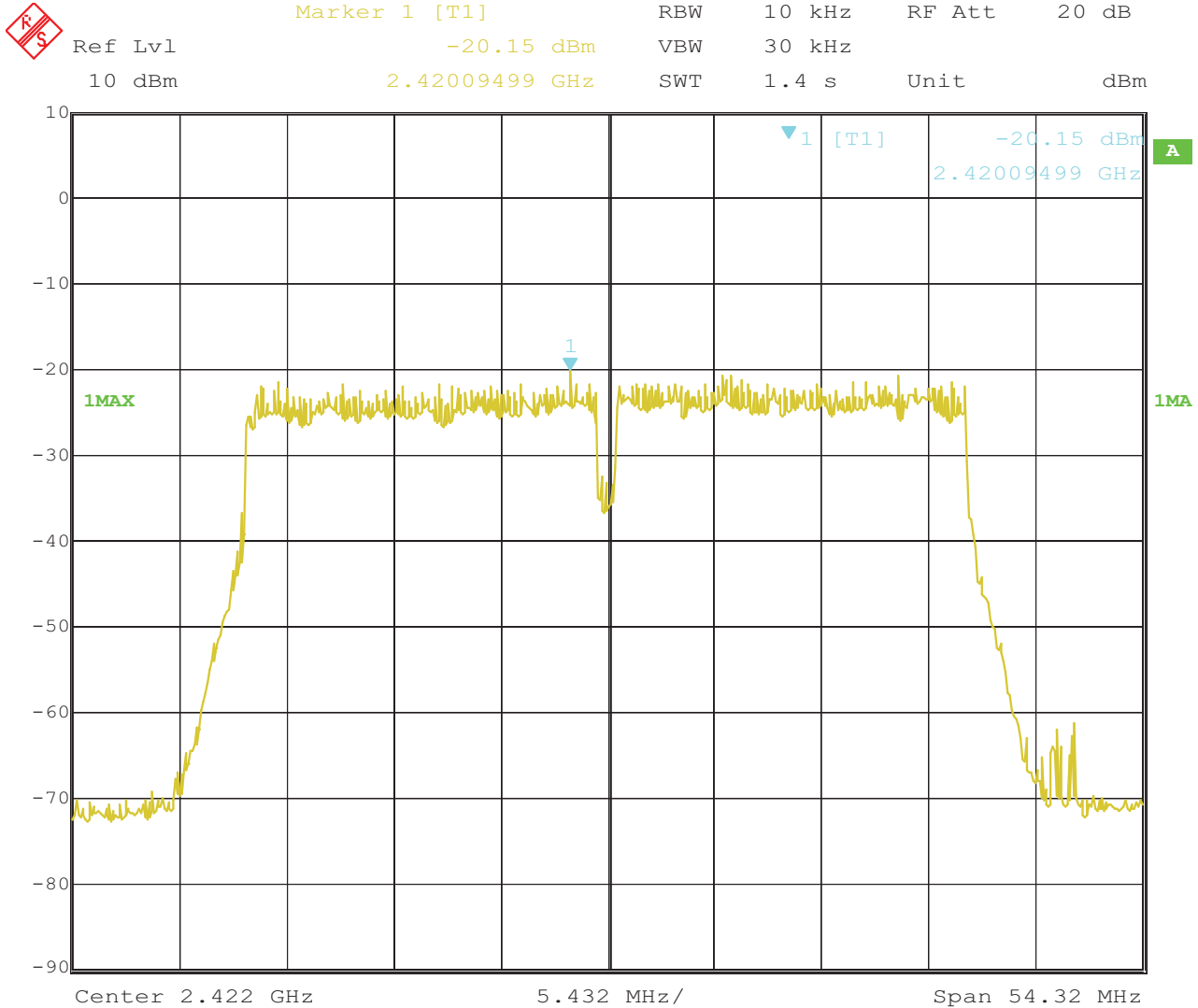


Date: 29.SEP.2015 10:39:17

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13. 802.11n at HT40 of CH01

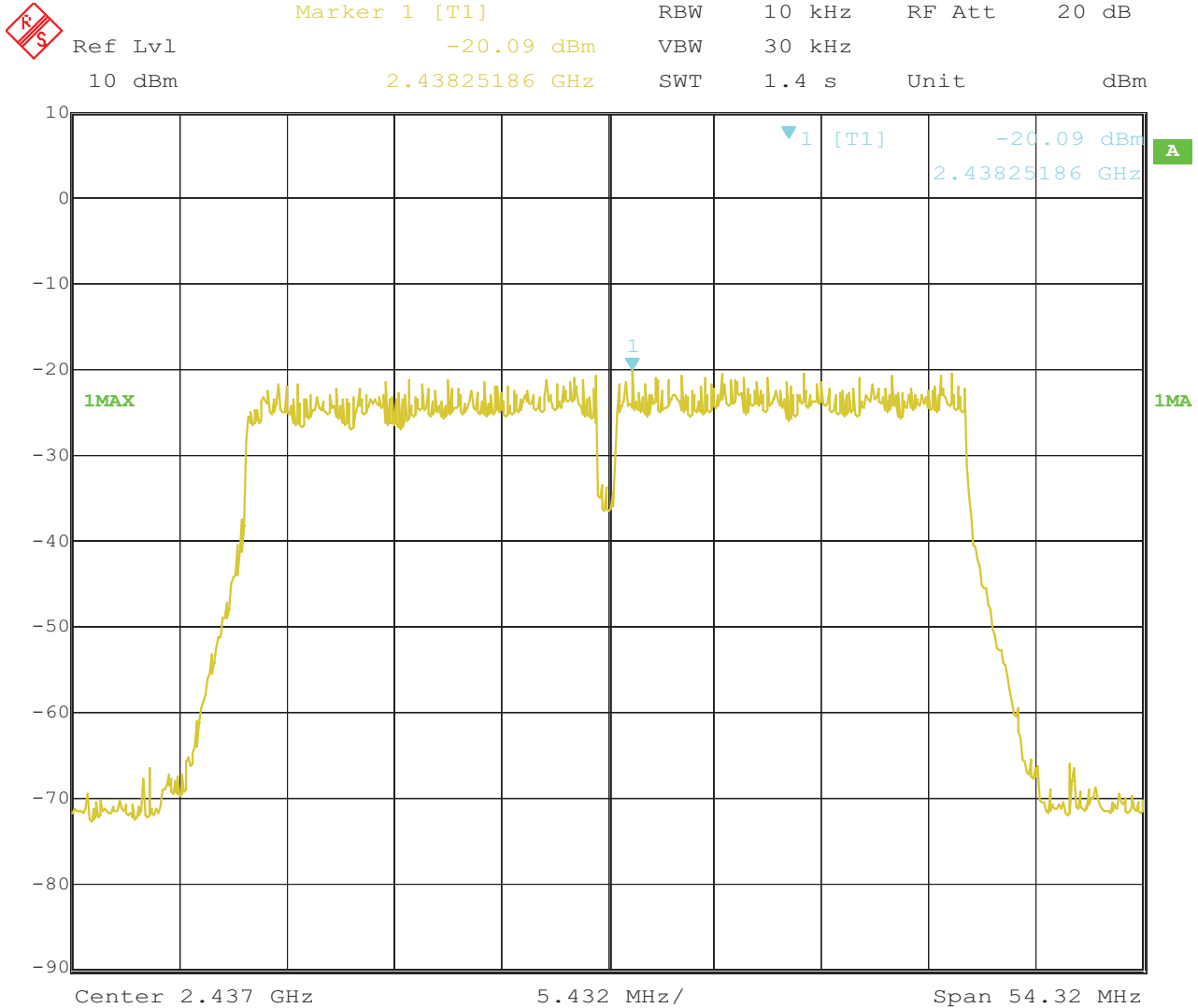


Date: 29.SEP.2015 10:44:41

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14. 802.11n at HT40 of CH04



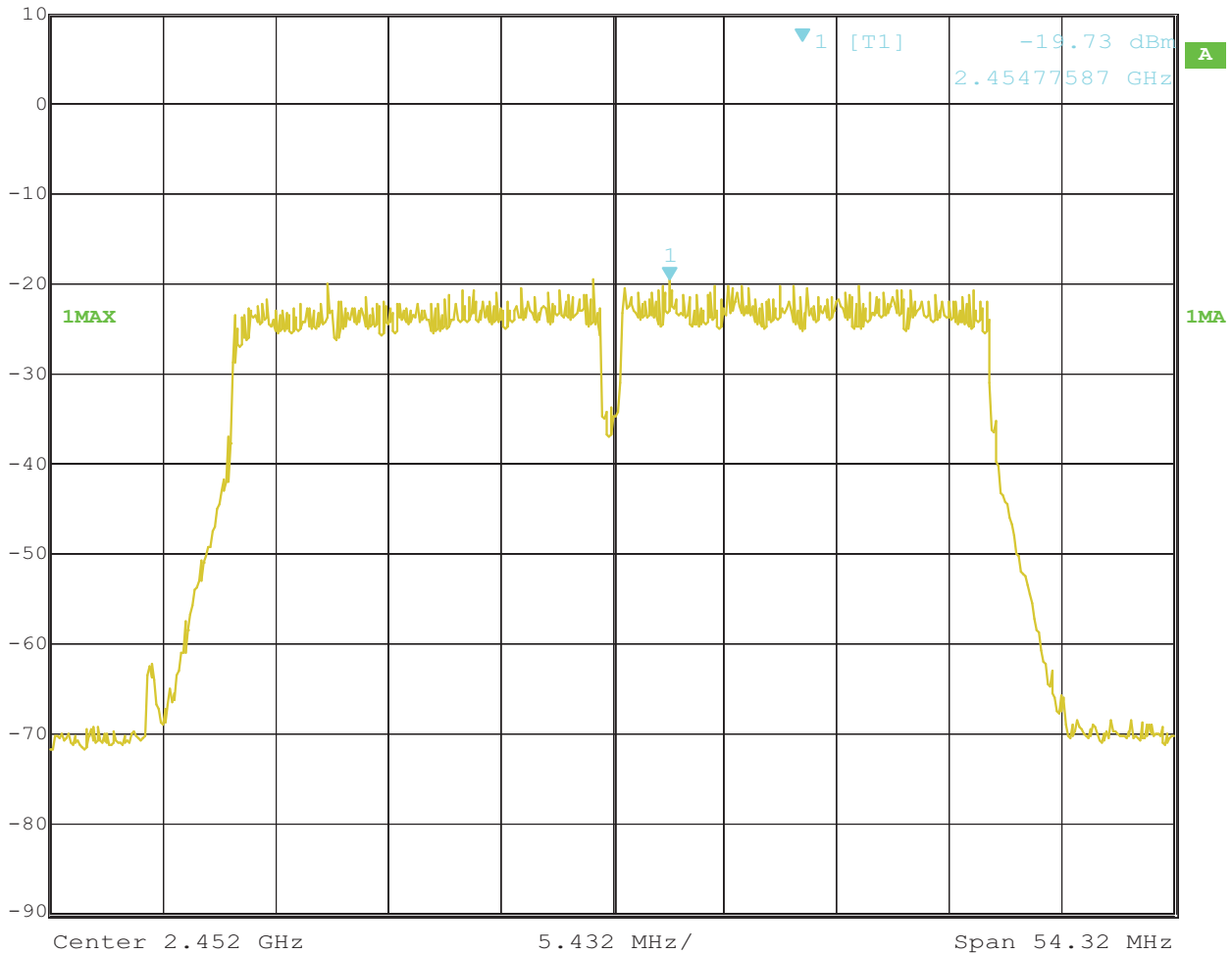
Date: 29.SEP.2015 10:46:06

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15. 802.11n at HT40 of CH07

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-19.73 dBm	VBW	30 kHz	
	10 dBm	2.45477587 GHz	SWT	1.4 s	Unit dBm



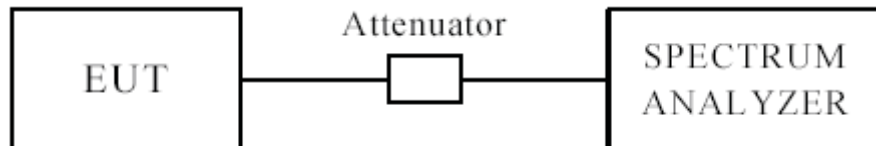
Date: 29.SEP.2015 10:48:41

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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  $-20\text{dB}$  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  $\text{RBW}=\text{VBW}=1\text{MHz}$  and PK detector. AV value with  $\text{RBW}=1\text{MHz}$ ,  $\text{VBW}=1\text{MHz}$  and RMS detector)

For bandage test, the spectrum set as follows:  $\text{RBW}=100$ ,  $\text{VBW}=300\text{ kHz}$ . 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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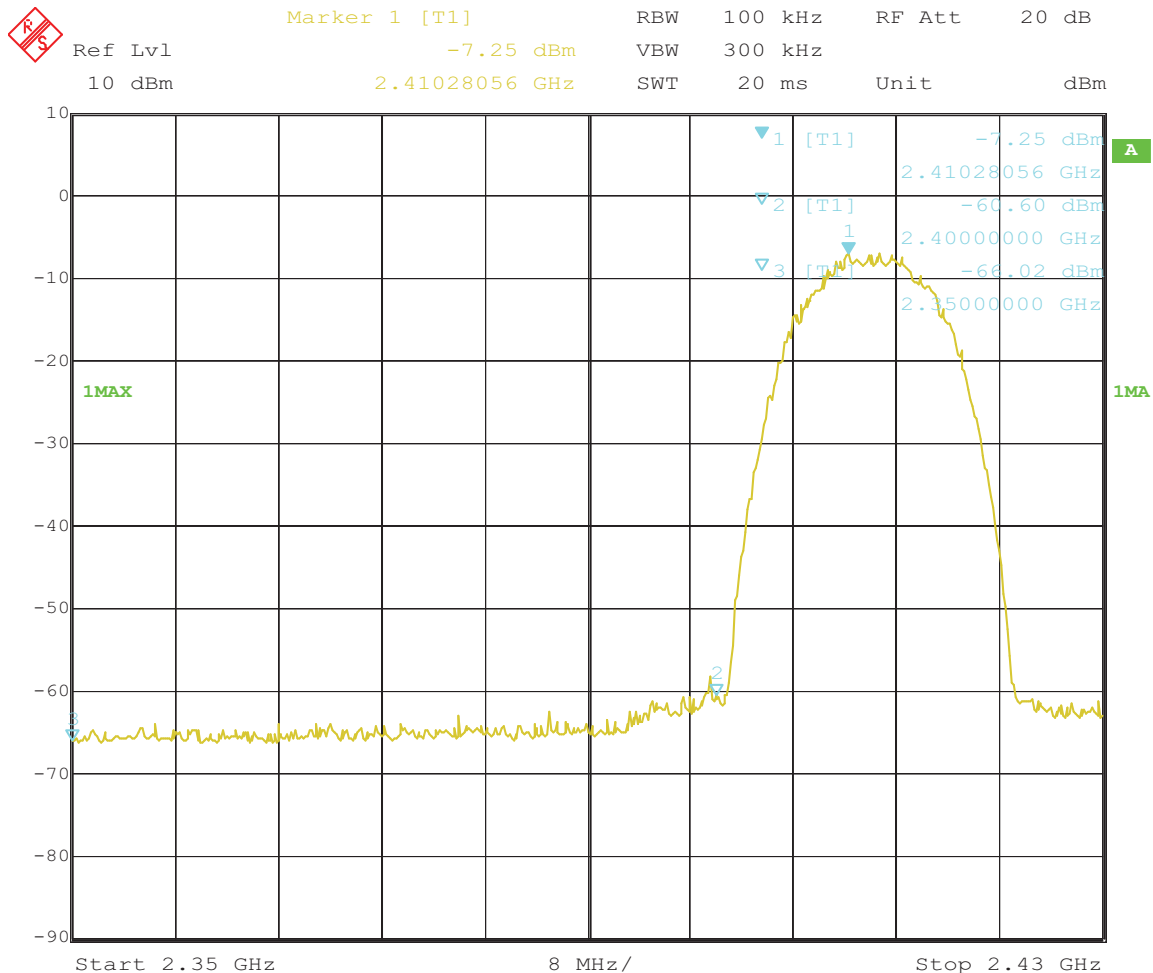
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge and Restricted band Measurement

EUT	MID		Model	TE116C0, D2-1161G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	57.4	Limit	74(dBμV/m)
	AV (dBμV/m)	38.9		54(dBμV/m)
2390	PK (dBμV/m)	43.4	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 29.SEP.2015 10:56:00

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

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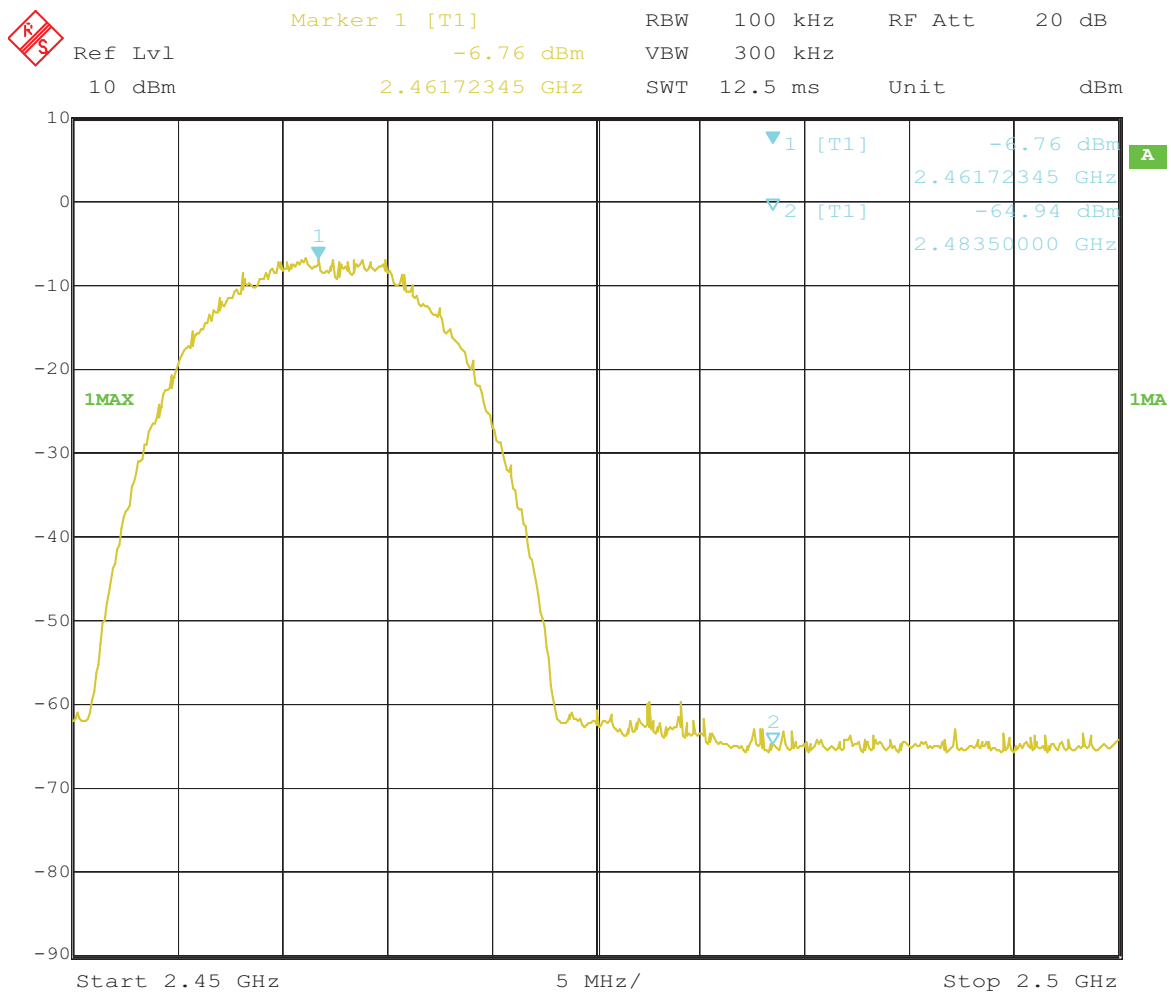


CH11 at 11Mbps

10.4 Band-edge and Restricted band Measurement

EUT	MID		Model	TE116C0, D2-1161G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	44.3	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 29.SEP.2015 10:56:50

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

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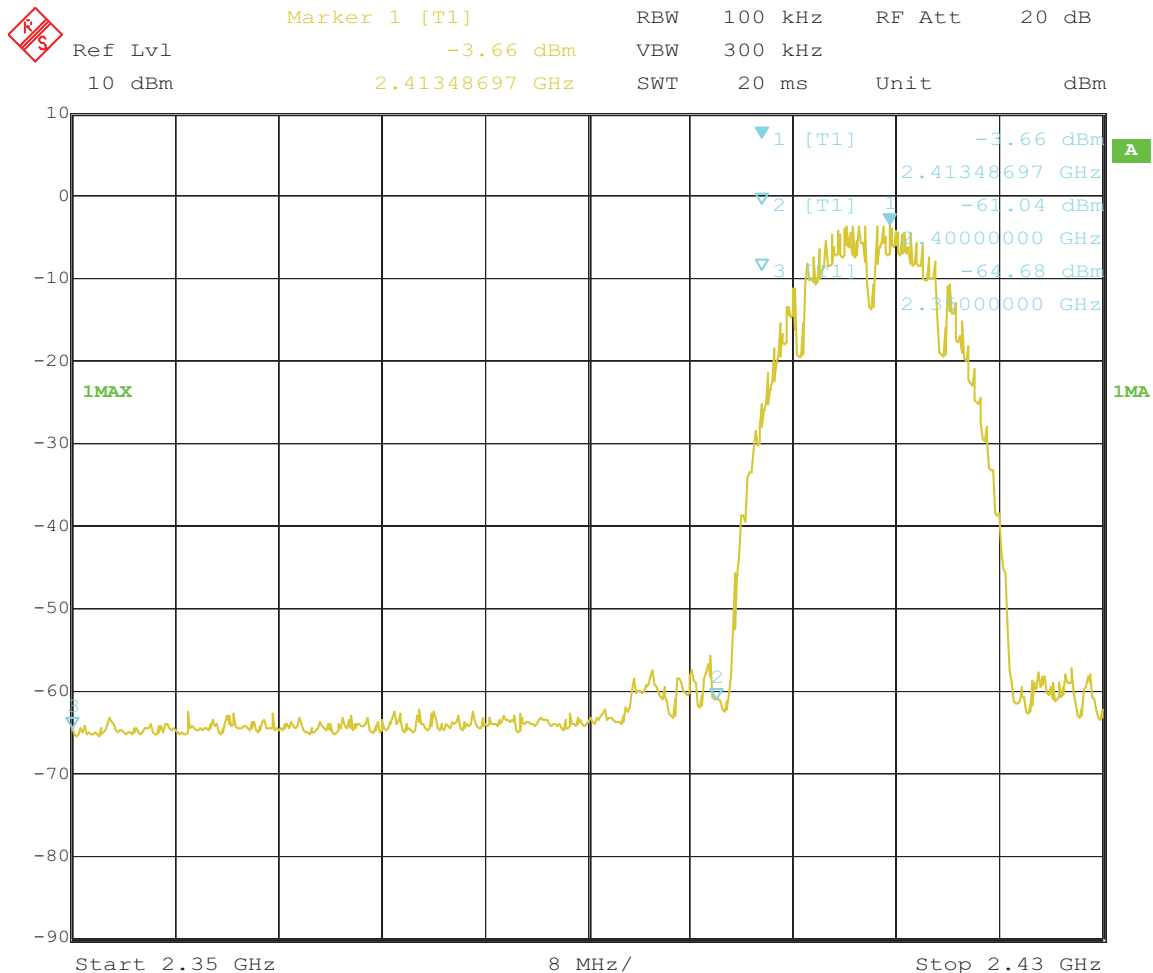
For 802.11b mode

CH01 at 1Mbps

**10.4 Band-edge and Restricted band Measurement**

EUT	MID		Model	TE116C0, D2-1161G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	58.2	Limit	74(dBμV/m)
	AV (dBμV/m)	39.1		54(dBμV/m)
2390	PK (dBμV/m)	43.7	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

**Test Figure:**



Date: 29.SEP.2015 10:54:27

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

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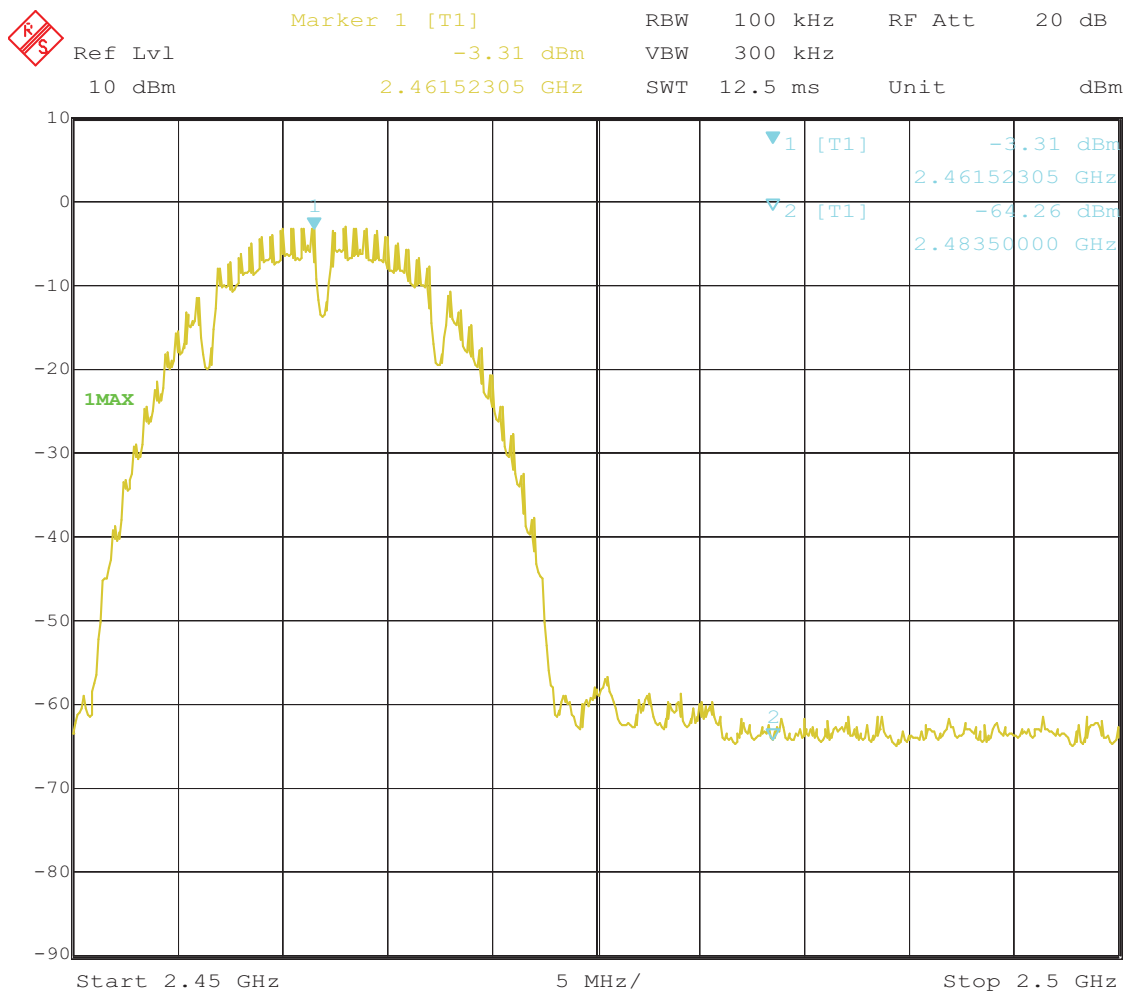


CH11 at 1Mbps

**10.4 Band-edge and Restricted band Measurement**

EUT	MID		Model	TE116C0, D2-1161G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	44.7	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

**Test Figure:**



Date: 29.SEP.2015 10:58:57

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

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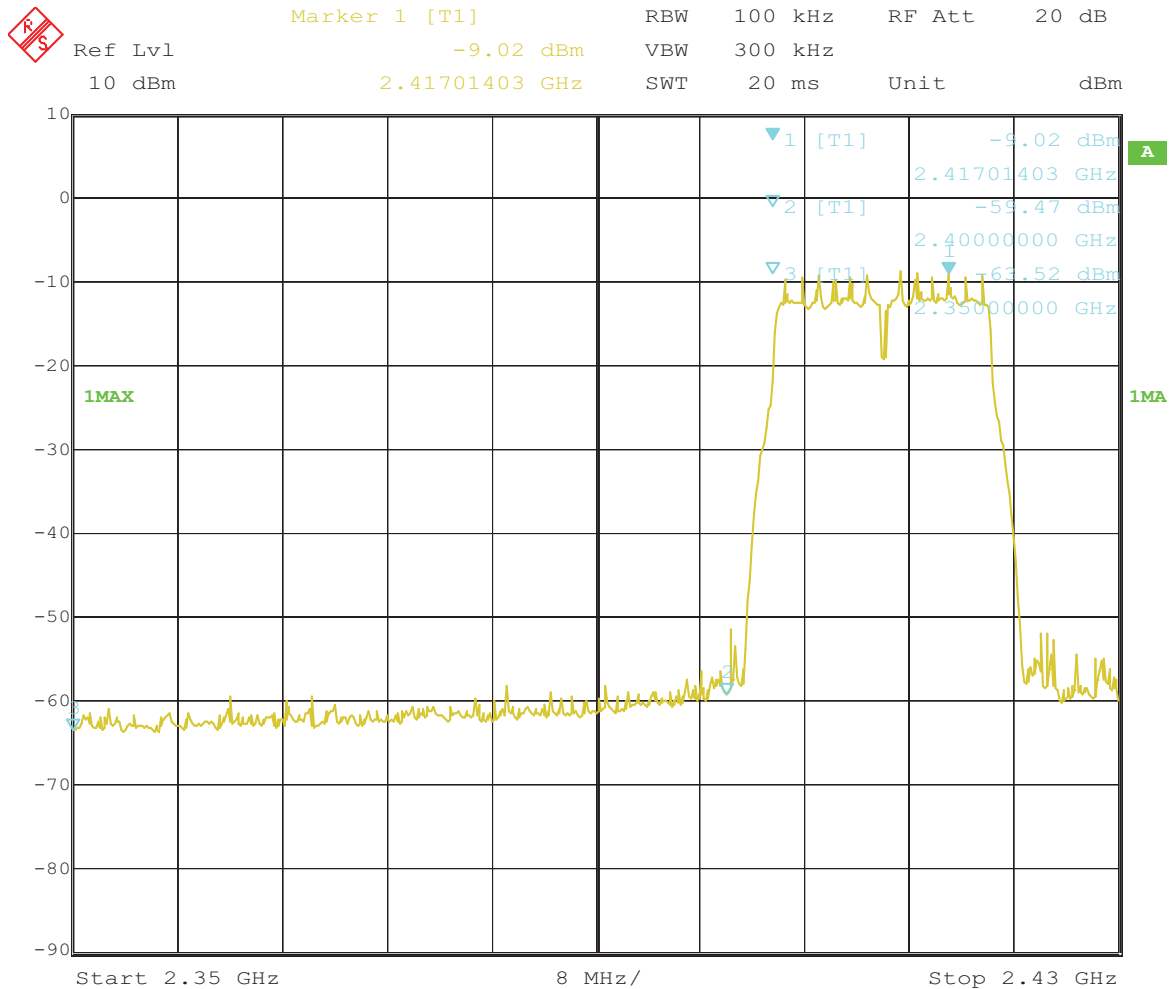
For 802.11g mode

CH01 at 54Mbps

10.4 Band-edge and Restricted band Measurement

EUT	MID		Model	TE116C0, D2-1161G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	60.9	Limit	74(dBμV/m)
	AV (dBμV/m)	39.8		54(dBμV/m)
2390	PK (dBμV/m)	46.2	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 29.SEP.2015 10:55:16

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

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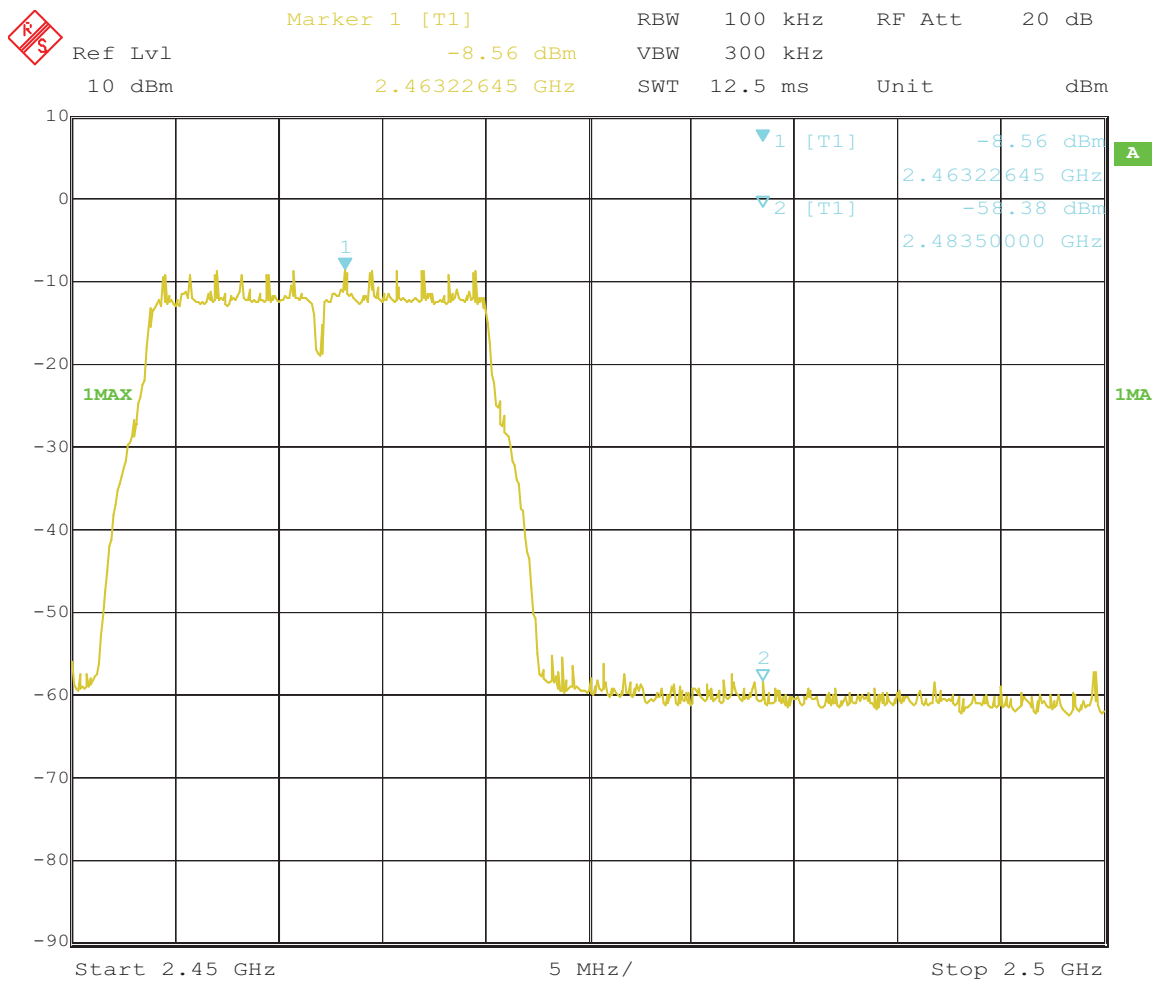


CH11 at 54Mbps

**10.4 Band-edge and Restricted band Measurement**

EUT	MID		Model	TE116C0, D2-1161G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	48.7	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

**Test Figure:**



Date: 29.SEP.2015 10:57:53

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

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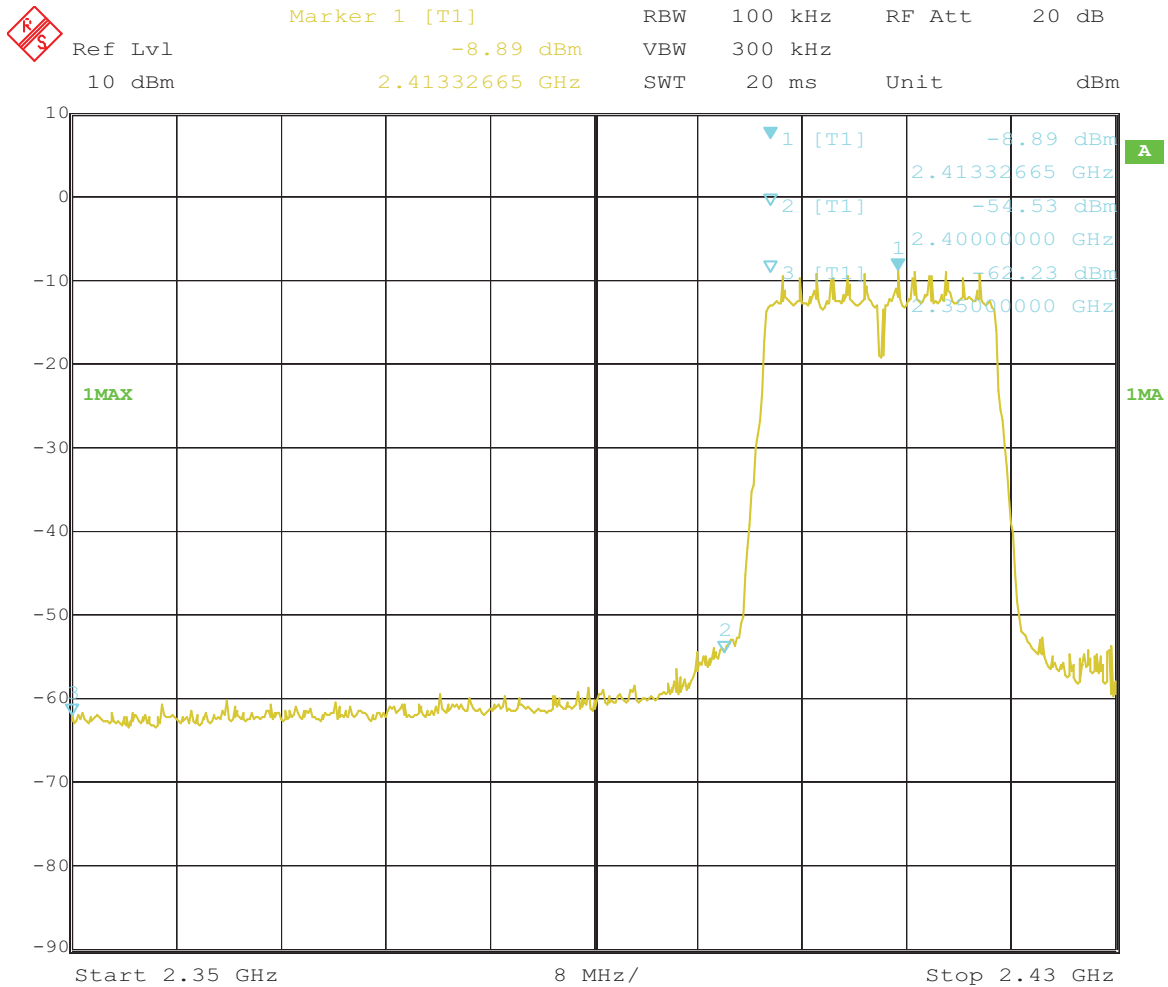


For 802.11n (HT20) mode  
 CH01 at 6.5Mbps

**10.4 Band-edge and Restricted band Measurement**

EUT	MID		Model	TE116C0, D2-1161G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dB $\mu$ V/m)	61.1	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	41.8		54(dB $\mu$ V/m)
2390	PK (dB $\mu$ V/m)	46.5	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**Test Figure:**



Date: 29.SEP.2015 10:53:10

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

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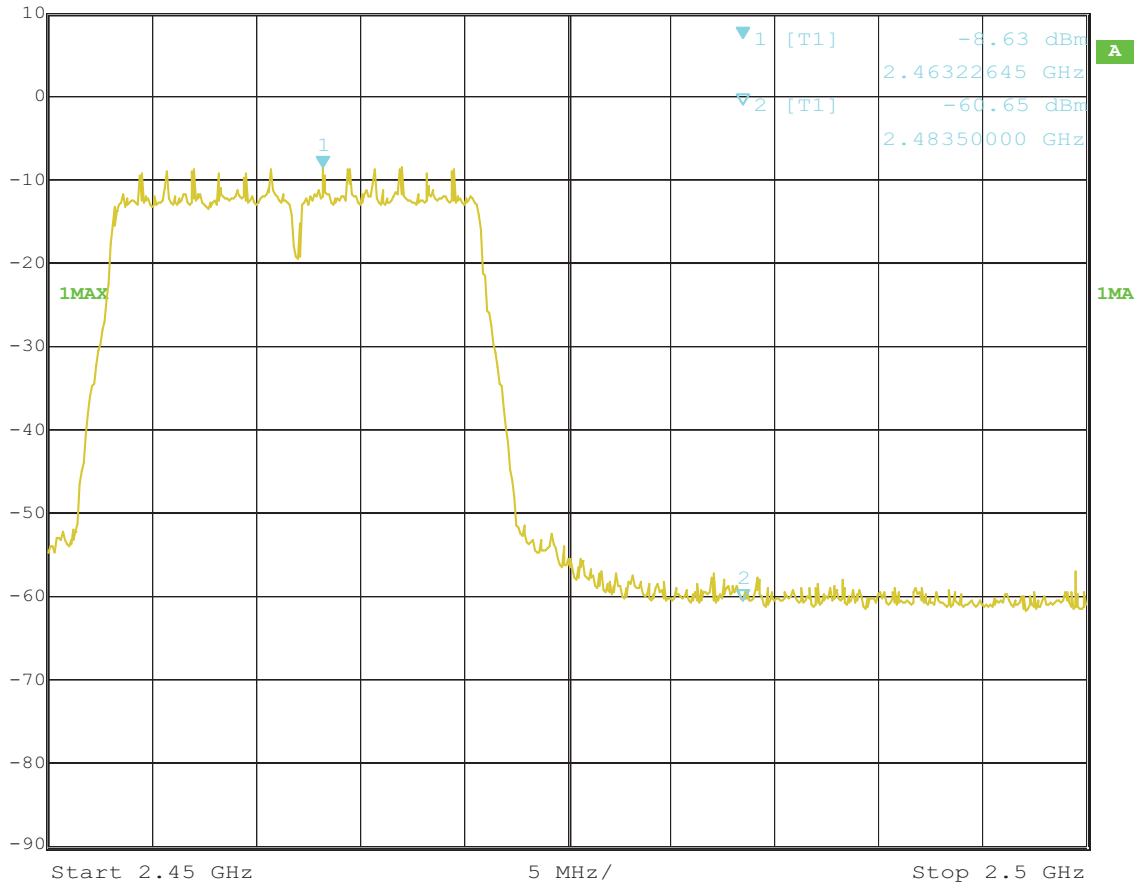
CH11 at 6.5Mbps

**10.4 Band-edge and Restricted band Measurement**

EUT	MID		Model	TE116C0, D2-1161G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	50.6	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

**Test Figure:**


Marker 1 [T1]
RBW 100 kHz
RF Att 20 dB  
Ref Lvl -8.63 dBm
VBW 300 kHz  
10 dBm
2.46322645 GHz
SWT 12.5 ms
Unit dBm



Date: 29.SEP.2015 10:59:56

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

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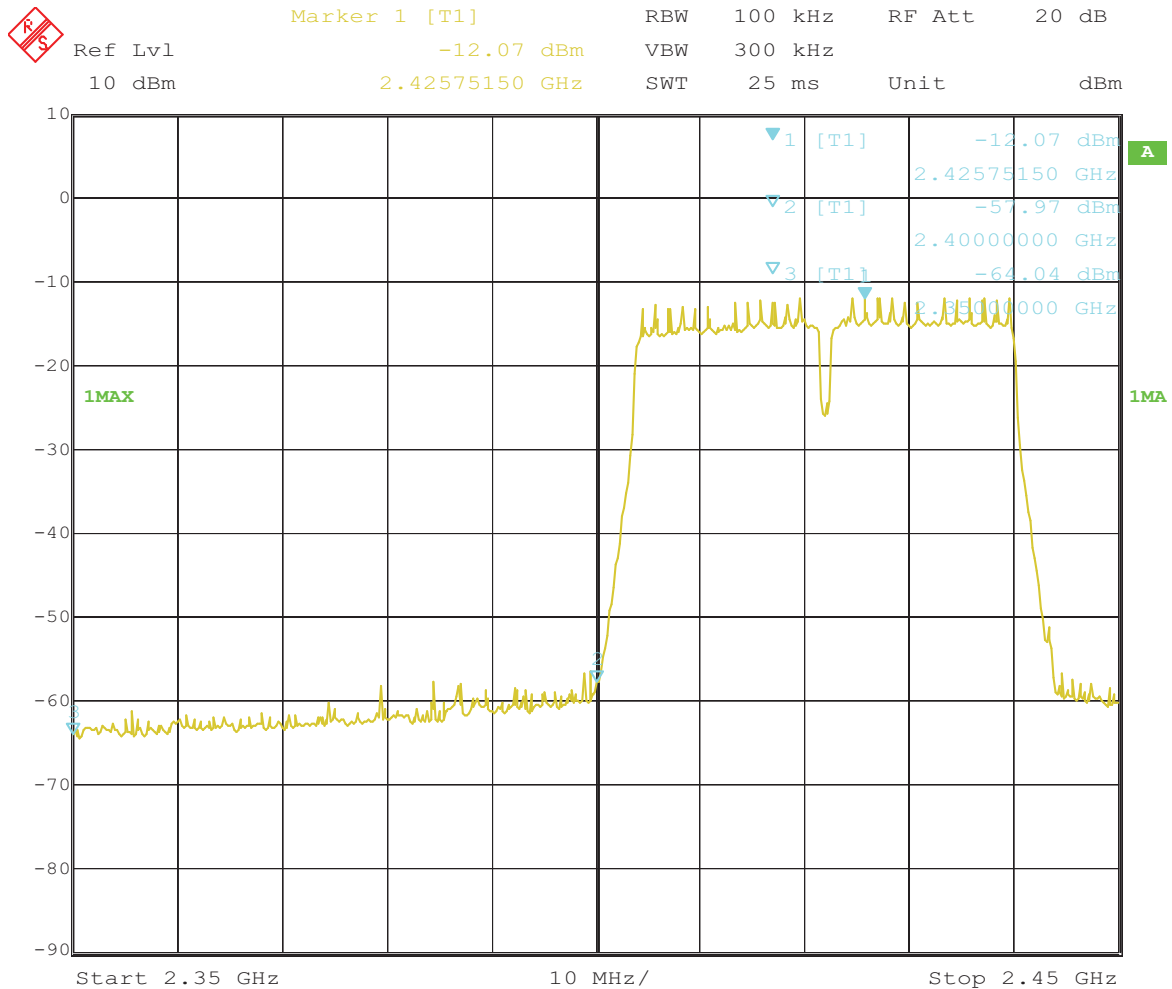


For 802.11n (HT40) mode  
 CH01 at 6.5Mbps

**10.4 Band-edge and Restricted band Measurement**

EUT	MID		Model	TE116C0, D2-1161G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	63.2	Limit	74(dBμV/m)
	AV (dBμV/m)	44.5		54(dBμV/m)
2390	PK (dBμV/m)	47.3	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

**Test Figure:**



Date: 29.SEP.2015 10:51:57

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

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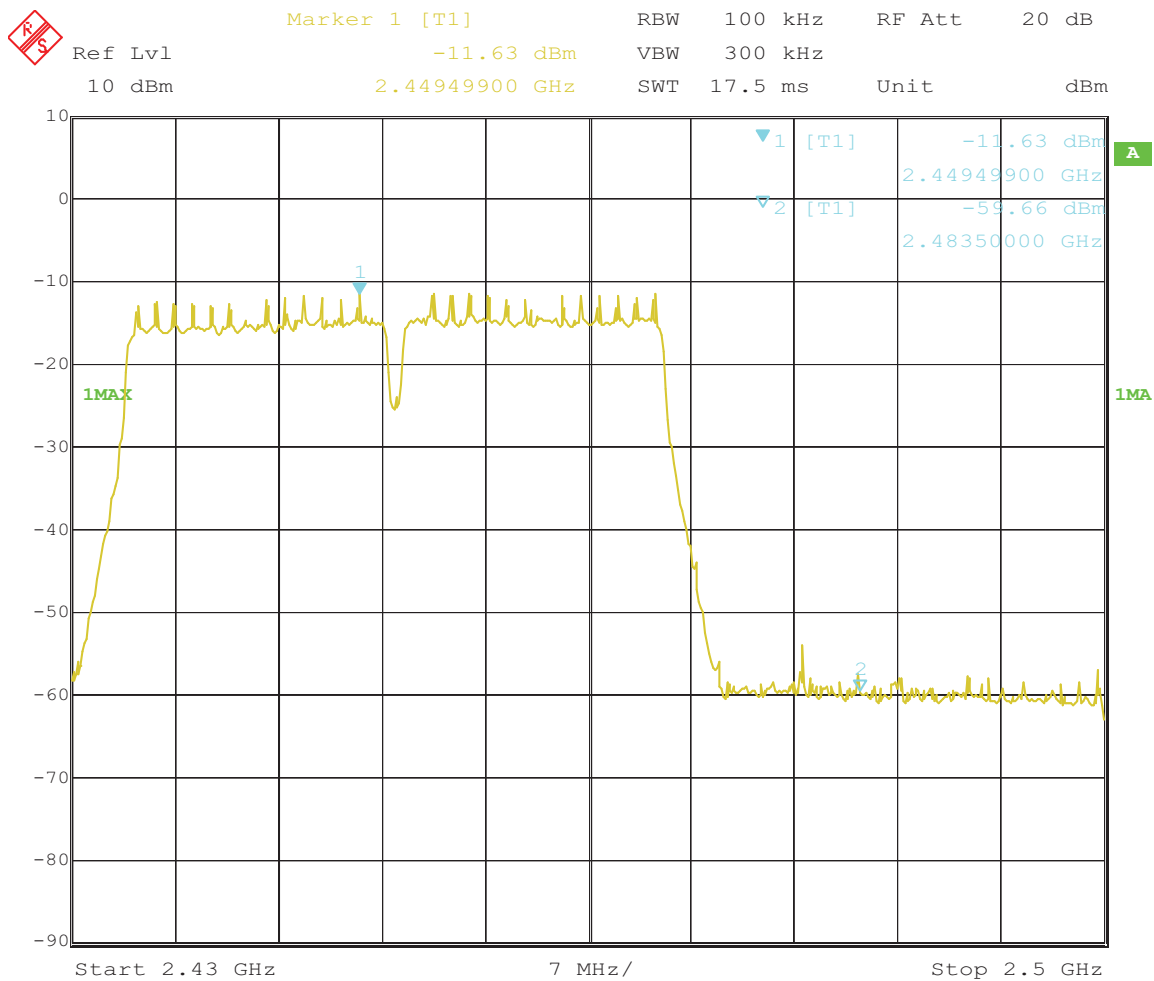


CH7 at 6.5Mbps

**10.4 Band-edge and Restricted band Measurement**

EUT	MID		Model	TE116C0, D2-1161G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	56.4	Limit	74(dBμV/m)
	AV (dBμV/m)	37.7		54(dBμV/m)

**Test Figure:**



Date: 29.SEP.2015 10:50:14

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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 1.71dBi.

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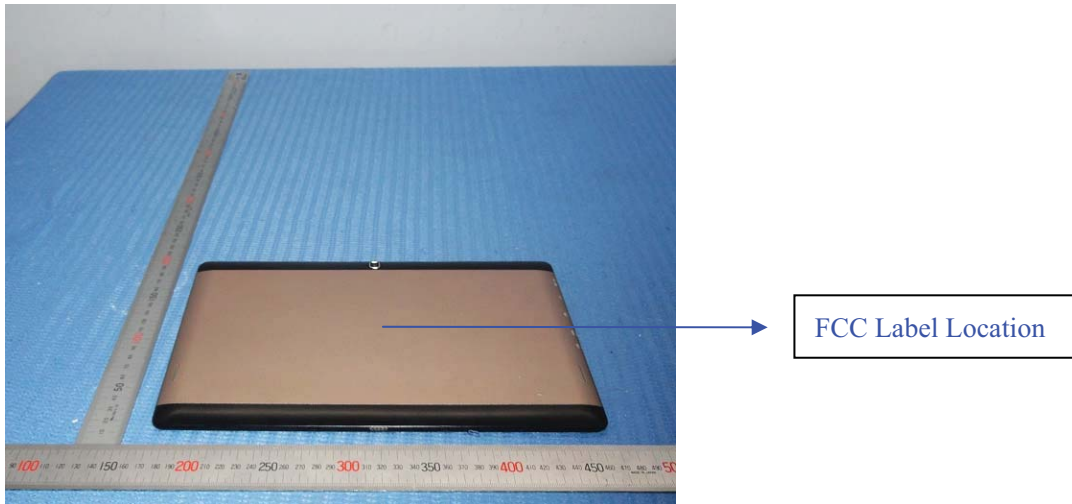
## 12.0 FCC ID Label

### FCC ID: 2ABDT-TE116C0

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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Outside view



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Outside view



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Outside view

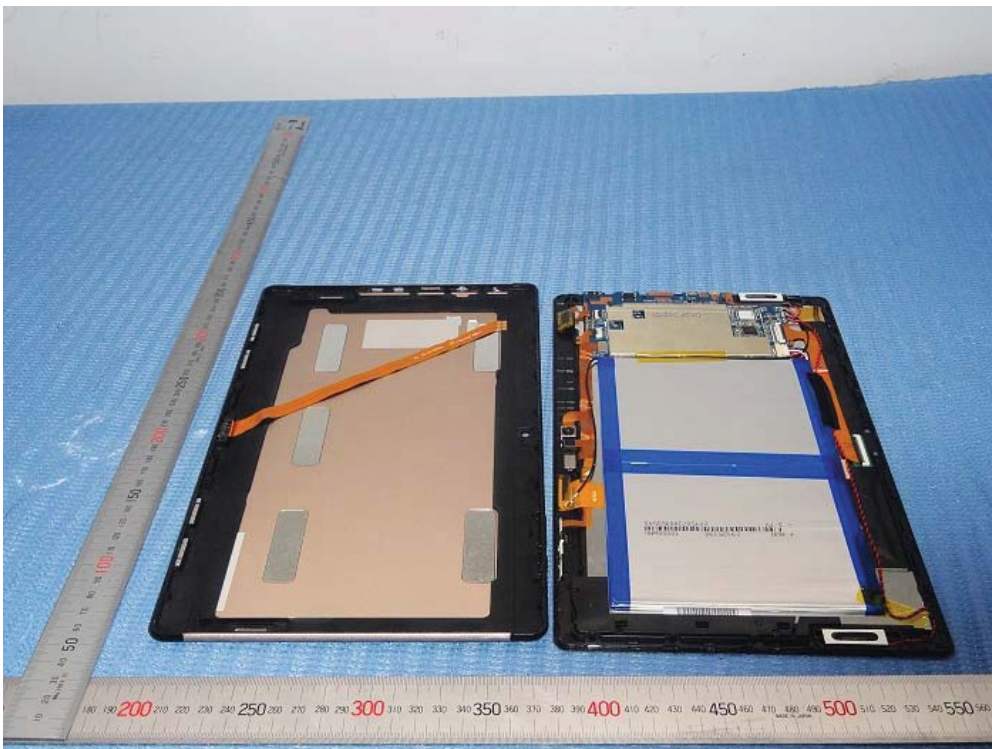


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Inside view



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Inside view

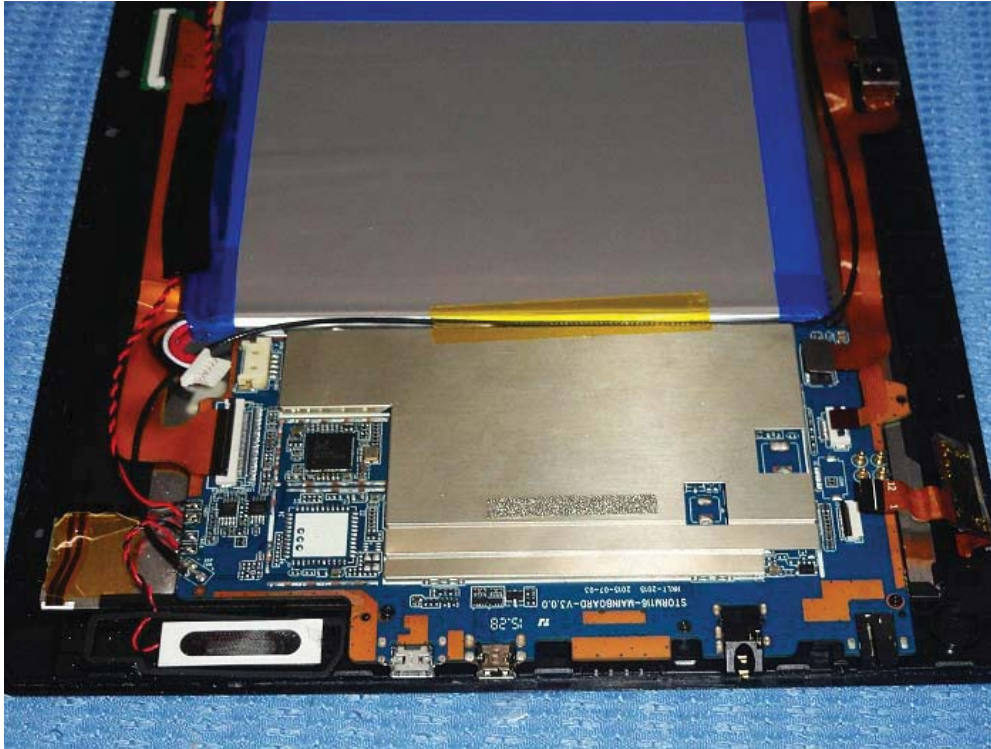


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Inside view

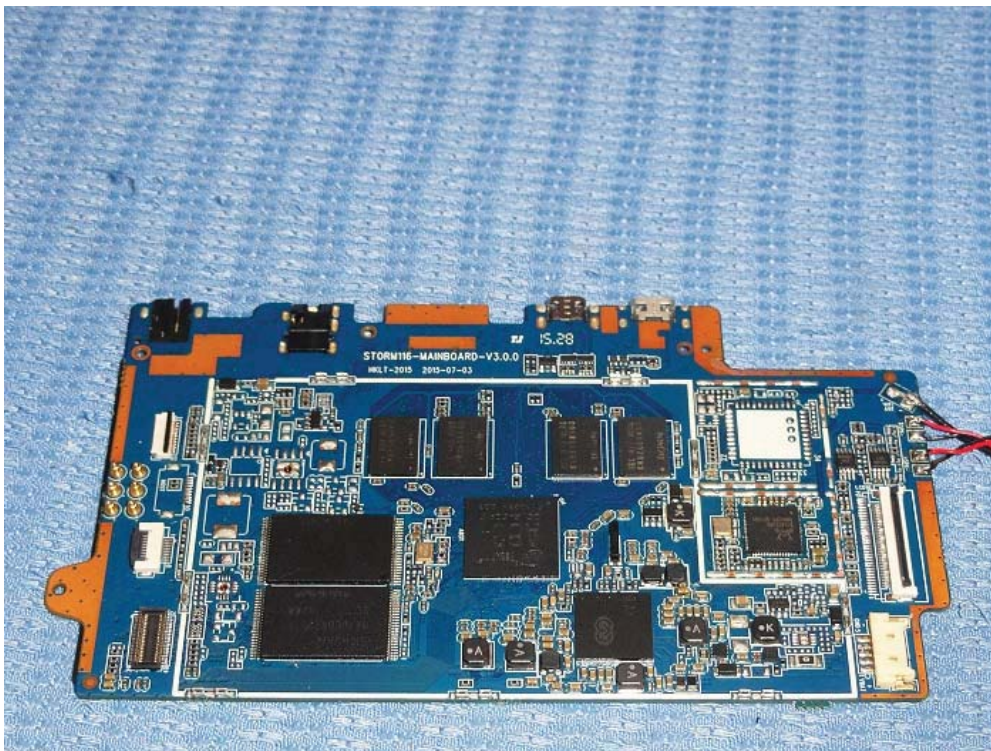


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Inside view

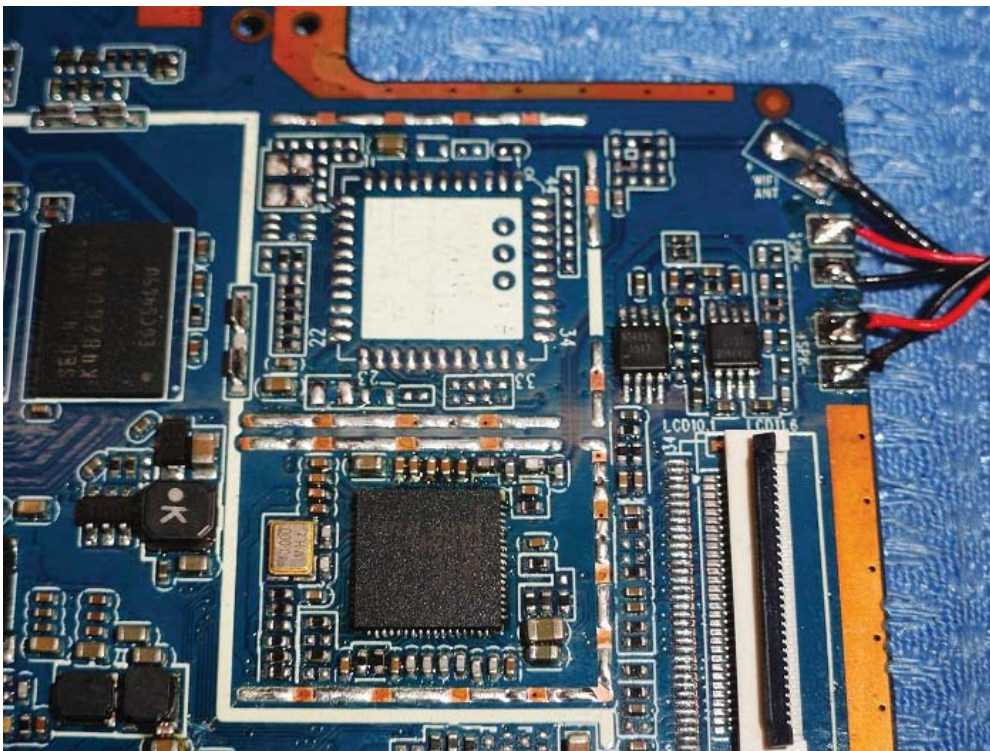


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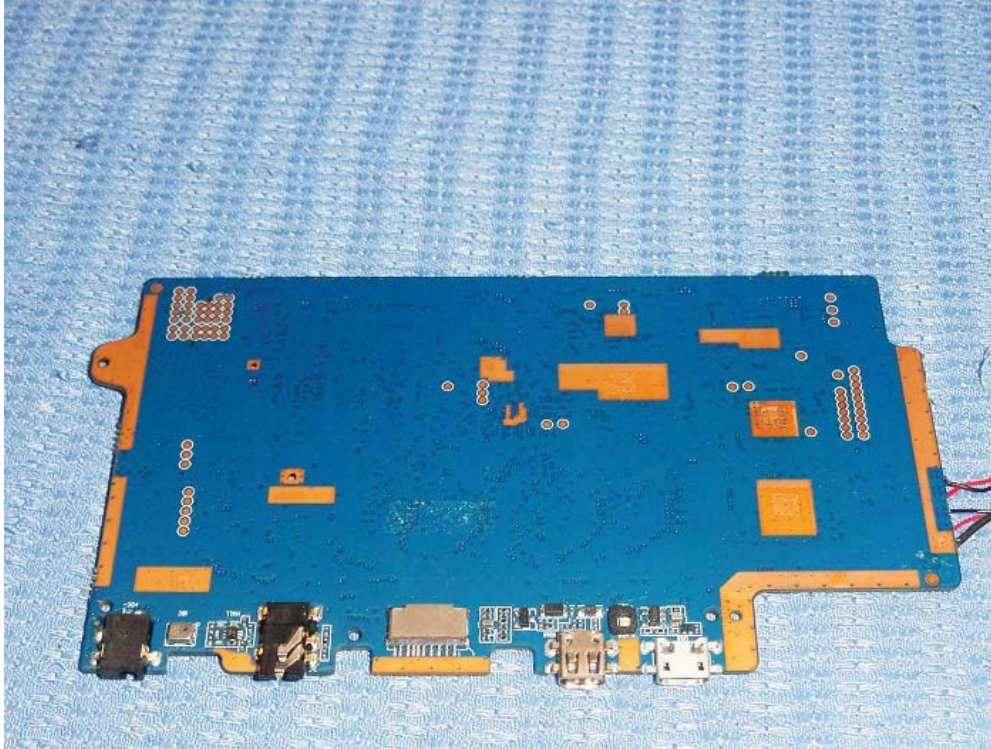


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Inside view



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