



ISO/IEC17025 Accredited Lab.

Report No.: FCC 1407153-02  
File reference No.: 2014-7-23  
Applicant: US HIGHTECH INC  
Product: Tablet PC  
Model No.: UHxxxxxx (Where "x" could be any Arabic numerals, English letter or blank)  
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 C63.4, FCC Part 15 Subpart C, paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: 2014-7-23

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 Tanran Rd.CheGongMiao,Futian District,  
Shenzhen,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 17025:1999 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 Tanran 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 & 10m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-02  
For 3m & 10m OATS

### 1.2 Applicant Details

Applicant: US HIGHTECH INC  
Address: 12658 TORREY BLUFF DR. #287, SAN DIEGO, CALIFORNIA 92130, USA  
Telephone: --  
Fax: --

### 1.3 Description of EUT

Product: Tablet PC  
Manufacturer: Shenzhen DSO MicroElectronics CO., LTD.  
Address: Goldlonghua Plaza Commercial Bldg Rm 1502, No. 3 East Longuan Rd., Longhua District, Shenzhen, China  
Band Name: N/A  
Additional Model Number: N/A  
Type of Modulation IEEE 802.11b: DSSS(CCK, QPSK, SBPSK)  
IEEE 802.11g/n(HT20, HT40): OFDM(64QAM, 16QAM, QPSK, BPSK)  
Frequency range IEEE 802.11b/g/n(HT20): 2012-2462MHz  
IEEE 802.11n(HT40): 2022-2452MHz  
Channel Spacing 5MHz for IEEE 802.11b/g/n(HT20/HT40)

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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: 65.0, 58.5, 52.0, 39.0, 26.0, 19.5, 13.0, 6.5 Mbps  
IEEE 802.11n HT40: 135.0, 121.5, 108, 81, 54, 40.5, 27.0, 13.5 Mbps

Frequency Selection By Software

Frequency Number IEEE 802.11b/g/n(HT20): 11 Channels; IEEE 802.11n(HT40): 7 Channels

Antenna Integral Antenna Used, The Antenna0 Gain is 4.3dBi, Antenna1 Gain is 2.0dBi (Antenna 0 can't transmit with Antenna 1 simultaneously. Both of the antennas were investigated, only worst result is presented in this report).

Rated Input Voltage DC 5V

Power Supply Input: AC100-240V 50/60Hz 0.28A; Output: DC 5.0V 2A

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2014-7-5 to 2014-7-22

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

### Models difference

No.	Model No.
1	UHxxxxxx
Note: 1. Where "x" could be any Arabic numerals, English letter or blank. 2. All models are identical in circuitry and electrical, mechanical and physical construction, only different on model name, color and silk-screen. 3. All tests carried out on UH672G.	

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2.0	<i>Test Equipments</i>				
<i>Instrument Type</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Serial No.</i>	<i>Date of Cal.</i>	<i>Due Date</i>
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2013-08-23	2014-08-22
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2013-08-23	2014-08-22
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2013-08-23	2014-08-22
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2013-08-25	2014-08-24
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2013-08-23	2014-08-22
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2013-08-24	2014-08-23
System Controller	CT	SC100	-	--	--
Printer	EPSON	PHOTO EX3	CFNH234850	--	--
Computer	IBM	8434	IS8434KCE99B LXLO*	--	--
Loop Antenna	EMCO	6502	00042960	2013-08-23	2014-08-22
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2013-08-23	2014-08-22
3m OATS	--	--	N/A	2013-08-22	2014-08-21
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170265	2013-08-24	2014-08-23
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	2013-08-24	2014-08-23
Power meter	Anritsu	ML2487A	6K00003613	2013-08-24	2014-08-23
Power meter	Anritsu	MA2491A	32263	2013-08-24	2014-08-23
Bi-log Antenna	Schwarebeck	VULB9163	9163/340	2013-08-21	2014-08-20
LISN	AFJ	LS16C	10010947251	2013-08-21	2014-08-20
LISN(Three Phase)	Schwarebeck	NSLK 8126	8126453	2013-08-23	2014-08-22
9*6*6 Anechoic	--	--	N/A	2013-08-22	2014-08-21
EMI Test Receiver	RS	ESCS30	10039	2013-08-23	2014-08-22

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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:

<i>Channel</i>	<i>Frequency (MHz)</i>
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 1Mbps 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: 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.

#### **IEEE 802.11n (HT40) mode**

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

<i>Channel</i>	<i>Frequency (MHz)</i>
Low	2422
Middle	2437
High	2452

IEEE 802.11n (HT40) mode: 13.5Mbps 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.

**Note:** The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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### 3.0 Technical Details

#### 3.1 Summary of test results

*The EUT has been tested according to the following specifications:*

STANDARD	TEST TYPE	RESULT	NOTES
<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**

#### 4.0 EUT Modification

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

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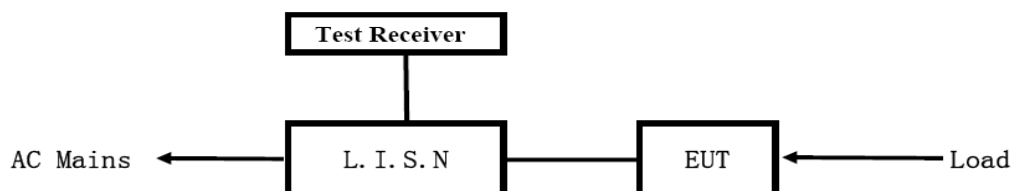
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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test



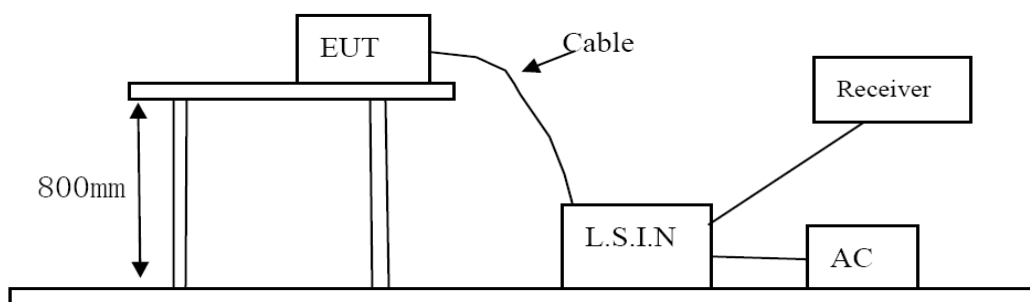
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. 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



### Configuration of The EUT

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

#### A. EUT

Device	Manufacturer	Model	FCC ID
Tablet PC	Shenzhen DSO MicroElectronics CO., LTD.	UH672G	2ACRMUH672G

#### B. Internal Device

Device	Manufacturer	Model	FCC ID
--	--	--	--

#### C. Peripherals

Device	Manufacturer	Model	FCC ID	Cable
--	--	--	--	--

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#### 5.4 EUT Operating Condition

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

#### 5.5 Power line conducted Emission Limit according to Paragraph 15.107 , 15.207

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

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**

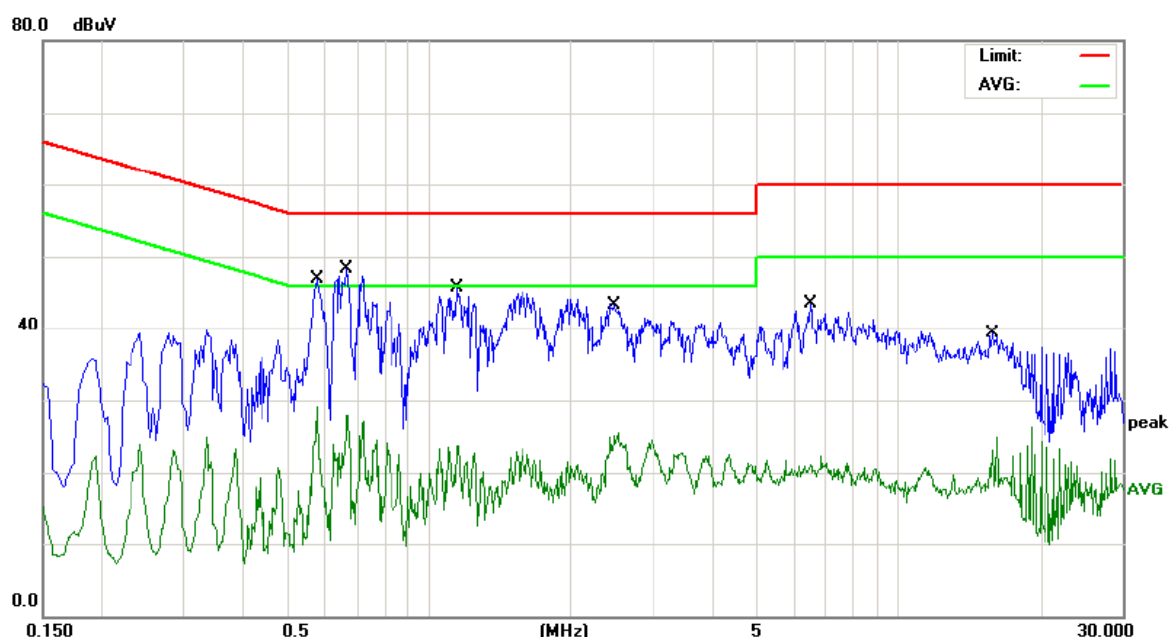
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**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		0.5780	36.37	10.63	47.00	56.00	-9.00	QP	
2		0.5780	18.44	10.63	29.07	46.00	-16.93	AVG	
3	*	0.6660	37.26	10.83	48.09	56.00	-7.91	QP	
4		0.6660	17.15	10.83	27.98	46.00	-18.02	AVG	
5		1.1460	34.93	10.74	45.67	56.00	-10.33	QP	
6		1.1460	12.86	10.74	23.60	46.00	-22.40	AVG	
7		2.4780	32.33	10.69	43.02	56.00	-12.98	QP	
8		2.4780	14.46	10.69	25.15	46.00	-20.85	AVG	
9		6.5140	33.02	10.54	43.56	60.00	-16.44	QP	
10		6.5140	10.52	10.54	21.06	50.00	-28.94	AVG	
11		15.8420	28.90	10.46	39.36	60.00	-20.64	QP	
12		15.8420	12.74	10.46	23.20	50.00	-26.80	AVG	

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

**EUT Operating Environment**

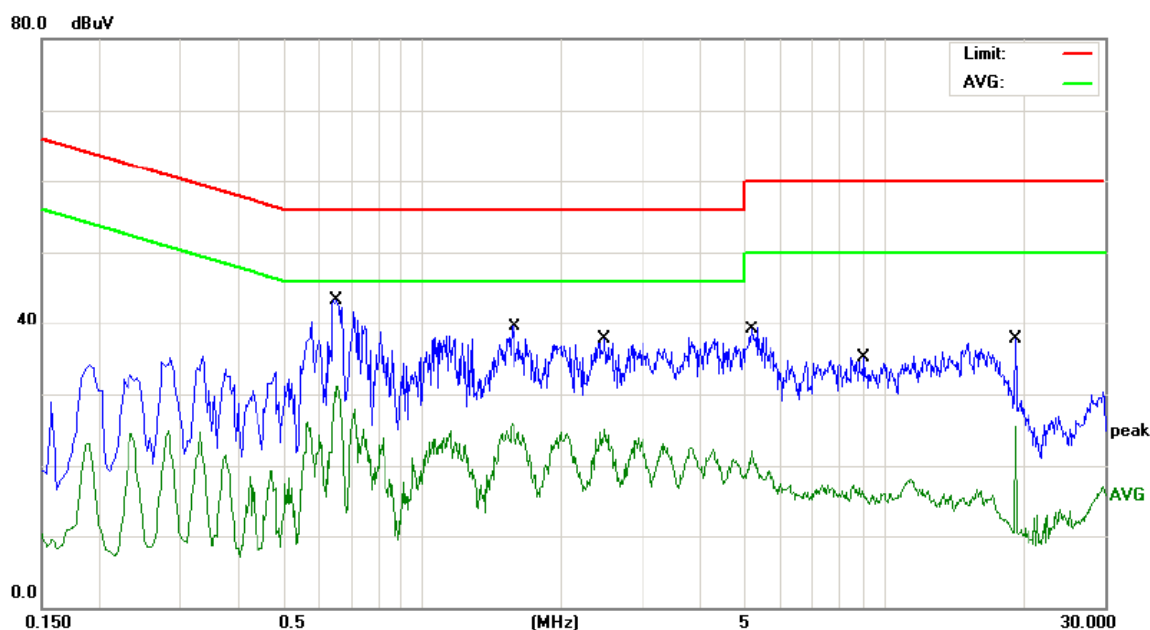
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**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	*	0.6460	32.12	10.79	42.91	56.00	-13.09	QP	
2		0.6460	19.59	10.79	30.38	46.00	-15.62	AVG	
3		1.5620	28.70	10.73	39.43	56.00	-16.57	QP	
4		1.5620	15.12	10.73	25.85	46.00	-20.15	AVG	
5		2.4739	27.11	10.69	37.80	56.00	-18.20	QP	
6		2.4739	14.35	10.69	25.04	46.00	-20.96	AVG	
7		5.1620	28.55	10.59	39.14	60.00	-20.86	QP	
8		5.1620	11.48	10.59	22.07	50.00	-27.93	AVG	
9		9.0580	24.72	10.44	35.16	60.00	-24.84	QP	
10		9.0580	5.54	10.44	15.98	50.00	-34.02	AVG	
11		19.2020	27.27	10.49	37.76	60.00	-22.24	QP	
12		19.2020	15.02	10.49	25.51	50.00	-24.49	AVG	

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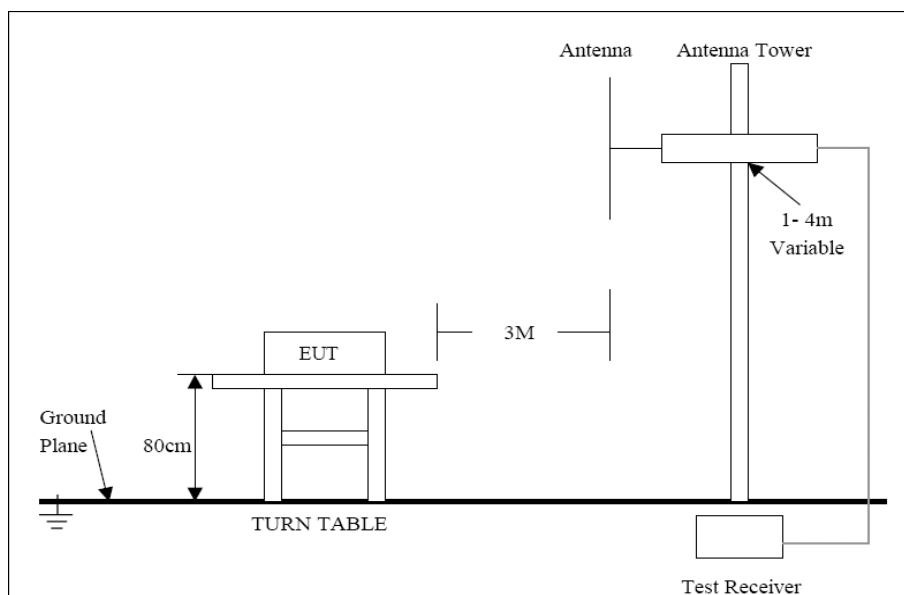
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## 6 Radiated Emission Test

### 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 1 m 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.



### 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.
  5. For radiated emission from 9kHz to 30MHz, the measurements were greater than 20dB below the limit

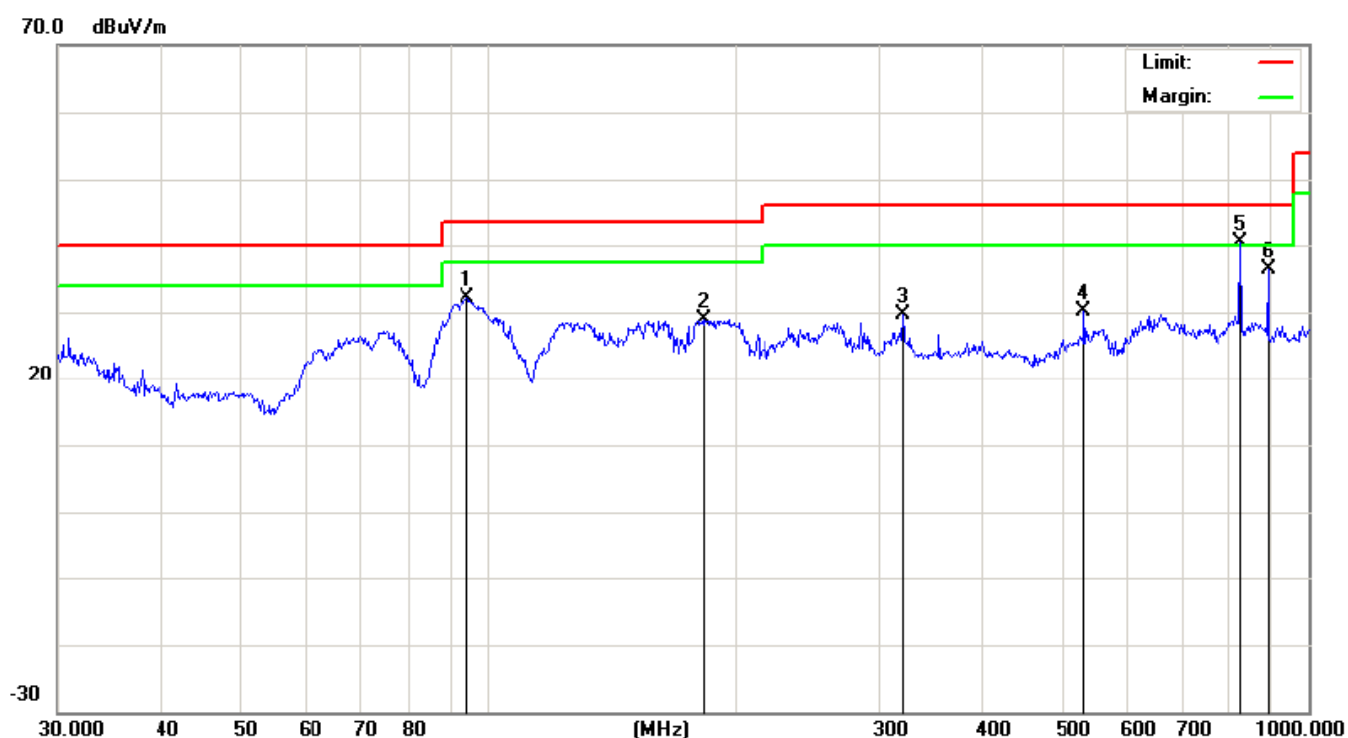
## Test Result

### General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Keep WIFI Transmitting

#### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		94.4282	41.93	-9.90	32.03	43.50	-11.47	Peak		
2		183.8438	36.72	-7.74	28.98	43.50	-14.52	Peak		
3		319.9370	31.85	-2.34	29.51	46.00	-16.49	Peak		
4		533.8318	28.17	1.93	30.10	46.00	-15.90	Peak		
5	*	827.4932	35.61	4.72	40.33	46.00	-5.67	Peak		
6		893.8567	32.88	3.58	36.46	46.00	-9.54	Peak		

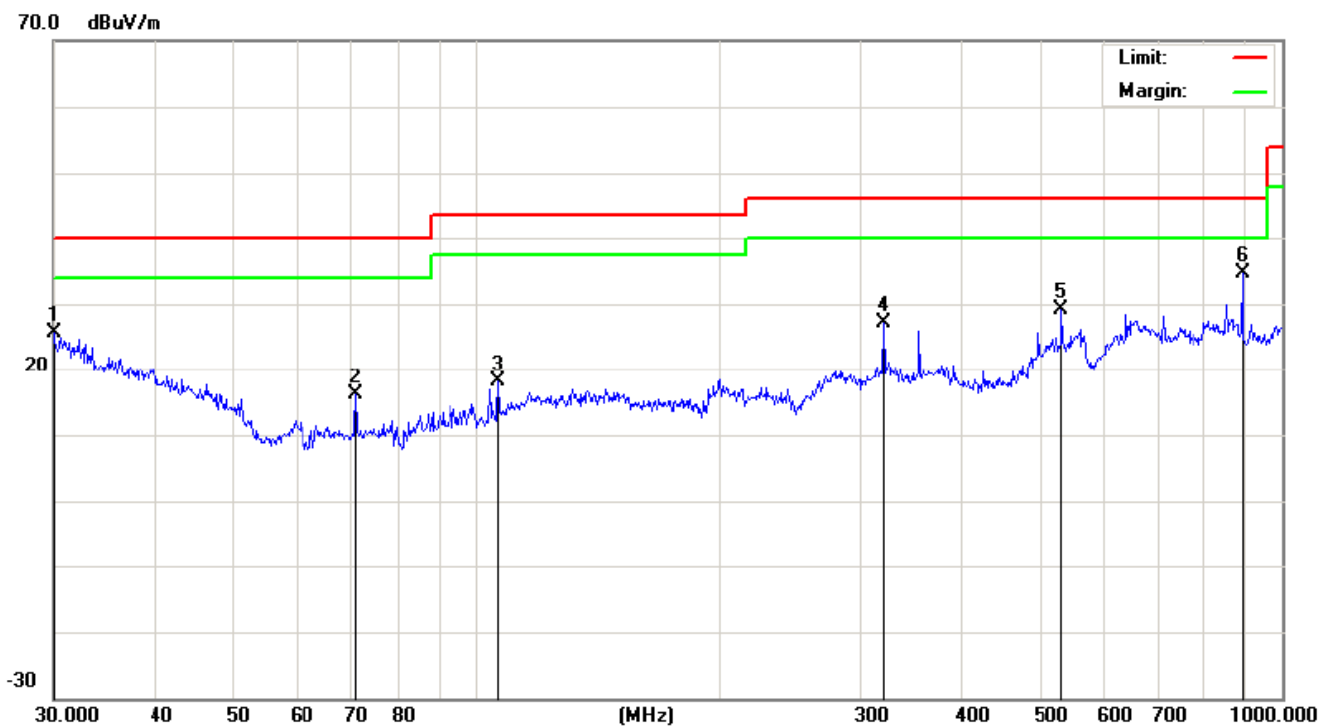
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**Vertical**



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		30.0000	29.07	-3.47	25.60	40.00	-14.40	Peak		
2		71.0802	29.27	-13.11	16.16	40.00	-23.84	Peak		
3		106.7587	31.94	-13.70	18.24	43.50	-25.26	Peak		
4		319.9370	31.02	-4.00	27.02	46.00	-18.98	Peak		
5		533.8318	29.35	-0.15	29.20	46.00	-16.80	Peak		
6	*	893.8567	28.52	6.05	34.57	46.00	-11.43	Peak		

**Remark:** All of the Tx modes have been investigated, and only worst mode is presented in this report.

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Above 1GHz to 25GHz:

Operation Mode:	802.11b TX (2412MHz)	Test Date :	July 12, 2014
Frequency Range:	Above 1GHz	Temperature :	28°C
Test Result:	PASS	Humidity :	65 %
Measured Distance:	3m	Test By:	LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4824	V	57.34	37.20	74	54	-16.66	-16.80
7236	V	58.48	36.63	74	54	-15.52	-17.37
4824	H	58.03	38.83	74	54	-15.97	-15.17
7236	H	57.16	37.90	74	54	-16.84	-16.10

*All emissions not reported were more than 20dB below the specified limit or in the noise floor.*

- Note:** (1) All Readings are Peak Value and AV.  
(2) Emission Level= Reading Level + Probe Factor + Cable Loss.  
(3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Operation Mode: 802.11b TX (2437MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4874	V	59.73	39.07	74	54	-14.27	-14.93
7311	V	59.95	39.22	74	54	-14.05	-14.78
4874	H	59.07	35.48	74	54	-14.93	-18.52
7311	H	55.01	36.29	74	54	-18.99	-17.71

*All emissions not reported were more than 20dB below the specified limit or in the noise floor.*

- Note:** (1) All Readings are Peak Value and AV.  
(2) Emission Level= Reading Level + Probe Factor +Cable Loss.  
(3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Operation Mode: 802.11b TX (2462MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4924	V	57.52	38.00	74	54	-16.48	-16.00
7386	V	57.86	39.09	74	54	-16.14	-14.91
4924	H	59.72	36.47	74	54	-14.28	-17.53
7386	H	59.69	39.53	74	54	-14.31	-14.47

***No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.***

- Note:**
- (1) All Readings are Peak Value and AV.
  - (2) Emission Level= Reading Level + Probe Factor +Cable Loss.
  - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Operation Mode: 802.11g TX (2412MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4824	V	59.39	38.06	74	54	-14.61	-15.94
7236	V	58.63	37.22	74	54	-15.37	-16.78
4824	H	56.35	38.73	74	54	-17.65	-15.27
7236	H	55.06	39.81	74	54	-18.94	-14.19

***All emissions not reported were more than 20dB below the specified limit or in the noise floor.***

- Note:**
- (1) All Readings are Peak Value and AV.
  - (2) Emission Level= Reading Level + Probe Factor +Cable Loss.
  - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Operation Mode: 802.11g TX(2437MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4874	V	58.82	37.42	74	54	-15.18	-16.58
7311	V	56.15	37.99	74	54	-17.85	-16.01
4874	H	59.87	37.08	74	54	-14.13	-16.92
7311	H	58.68	38.98	74	54	-15.32	-15.02

*All emissions not reported were more than 20dB below the specified limit or in the noise floor.*

- Note:**
- (1) All Readings are Peak Value and AV.
  - (2) Emission Level= Reading Level + Probe Factor +Cable Loss.
  - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Operation Mode: 802.11g TX (2462MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4924	V	58.40	38.33	74	54	-15.60	-15.67
7386	V	57.94	36.66	74	54	-16.06	-17.34
4924	H	59.00	35.51	74	54	-15.00	-18.49
7386	H	58.13	38.10	74	54	-15.87	-15.90

**No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.**

- Note:** (1) All Readings are Peak Value and AV.  
(2) Emission Level= Reading Level + Probe Factor +Cable Loss.  
(3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Operation Mode: 802.11n HT-20 TX (2412MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4824	V	59.21	37.51	74	54	-14.79	-16.49
7236	V	58.55	38.43	74	54	-15.45	-15.57
4824	H	58.70	37.19	74	54	-15.30	-16.81
7236	H	57.75	39.41	74	54	-16.25	-14.59

*All emissions not reported were more than 20dB below the specified limit or in the noise floor.*

- Note:** (1) All Readings are Peak Value and AV.  
(2) Emission Level= Reading Level + Probe Factor +Cable Loss.  
(3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Operation Mode: 802.11n HT-20 TX (2437MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4874	V	57.61	36.39	74	54	-16.39	-17.61
7311	V	57.93	36.45	74	54	-16.07	-17.55
4874	H	57.91	35.11	74	54	-16.09	-18.89
7311	H	57.77	37.46	74	54	-16.23	-16.54

*All emissions not reported were more than 20dB below the specified limit or in the noise floor.*

- Note:**
- (1) All Readings are Peak Value and AV.
  - (2) Emission Level= Reading Level + Probe Factor +Cable Loss.
  - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Operation Mode: 802.11n HT-20 TX (2462MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4924	V	57.13	38.10	74	54	-16.87	-15.90
7386	V	59.28	38.95	74	54	-14.72	-15.05
4924	H	58.63	37.18	74	54	-15.37	-16.82
7386	H	55.32	38.20	74	54	-18.68	-15.80

***No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.***

- Note:**
- (1) All Readings are Peak Value and AV.
  - (2) Emission Level= Reading Level + Probe Factor +Cable Loss.
  - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Operation Mode: 802.11n HT-40 TX (2422MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4844	V	56.61	39.31	74	54	-17.39	-14.69
7266	V	55.79	38.22	74	54	-18.21	-15.78
4844	H	58.56	35.59	74	54	-15.44	-18.41
7266	H	57.91	38.42	74	54	-16.09	-15.58

*All emissions not reported were more than 20dB below the specified limit or in the noise floor.*

- Note:** (1) All Readings are Peak Value and AV.  
(2) Emission Level= Reading Level + Probe Factor +Cable Loss.  
(3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Operation Mode: 802.11n HT-40 TX (2437MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4874	V	58.63	35.62	74	54	-15.37	-18.38
7311	V	58.62	37.03	74	54	-15.38	-16.97
4874	H	58.13	35.94	74	54	-15.87	-18.06
7311	H	55.11	38.20	74	54	-18.89	-15.80

*All emissions not reported were more than 20dB below the specified limit or in the noise floor.*

- Note:**
- (1) All Readings are Peak Value and AV.
  - (2) Emission Level= Reading Level + Probe Factor +Cable Loss.
  - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Operation Mode: 802.11n HT-40 TX (2452MHz) Test Date : July 12, 2014  
Frequency Range: Above 1GHz Temperature : 28°C  
Test Result: PASS Humidity : 65 %  
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4904	V	55.16	36.29	74	54	-18.84	-17.71
7356	V	55.30	37.70	74	54	-18.70	-16.30
4904	H	57.71	38.32	74	54	-16.29	-15.68
7356	H	55.84	36.08	74	54	-18.16	-17.92

***No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.***

- Note:**
- (1) All Readings are Peak Value and AV.
  - (2) Emission Level= Reading Level + Probe Factor +Cable Loss.
  - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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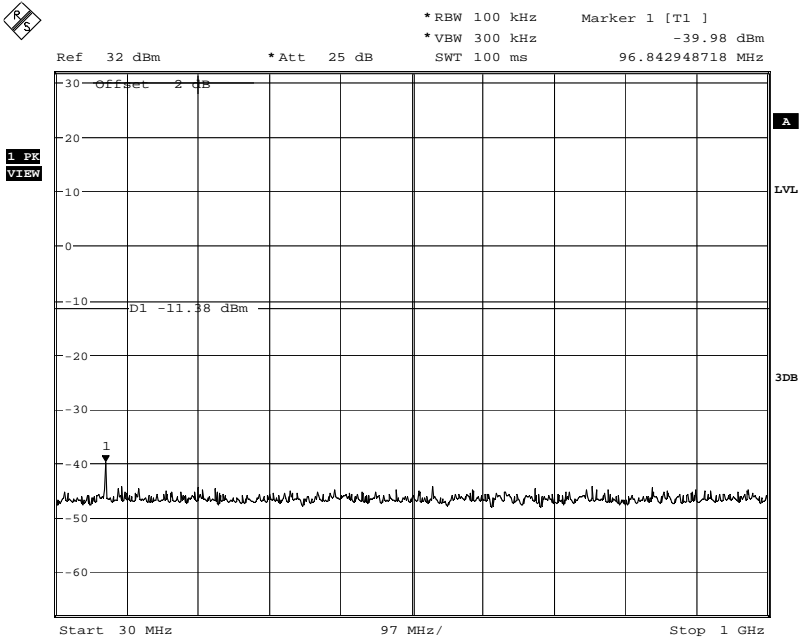
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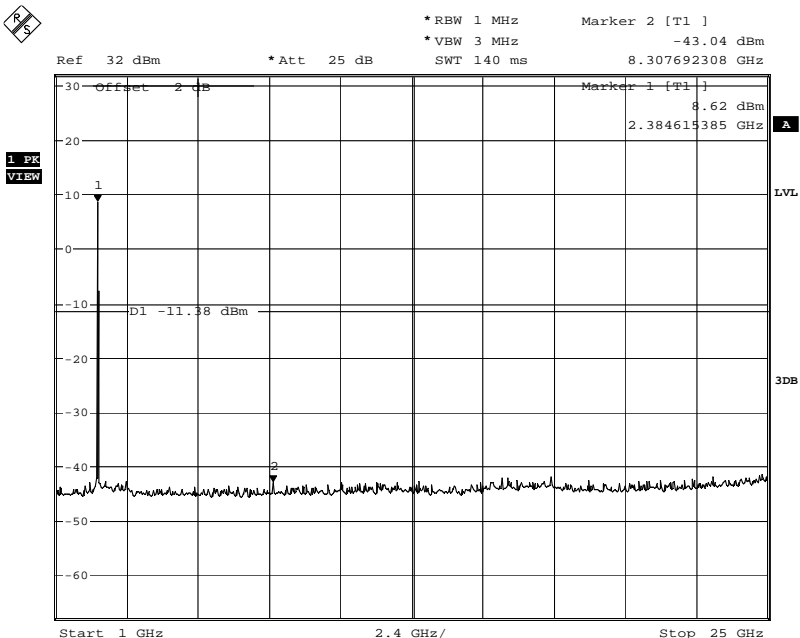
Antenna port conducted spurious emissions

802.11b:

Low channel



Sweep points = 20001

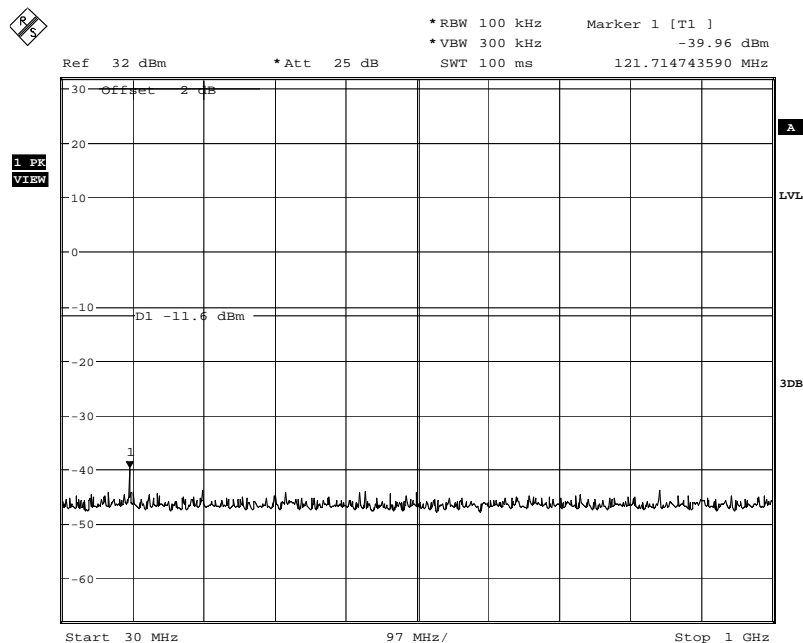


Sweep points = 20001

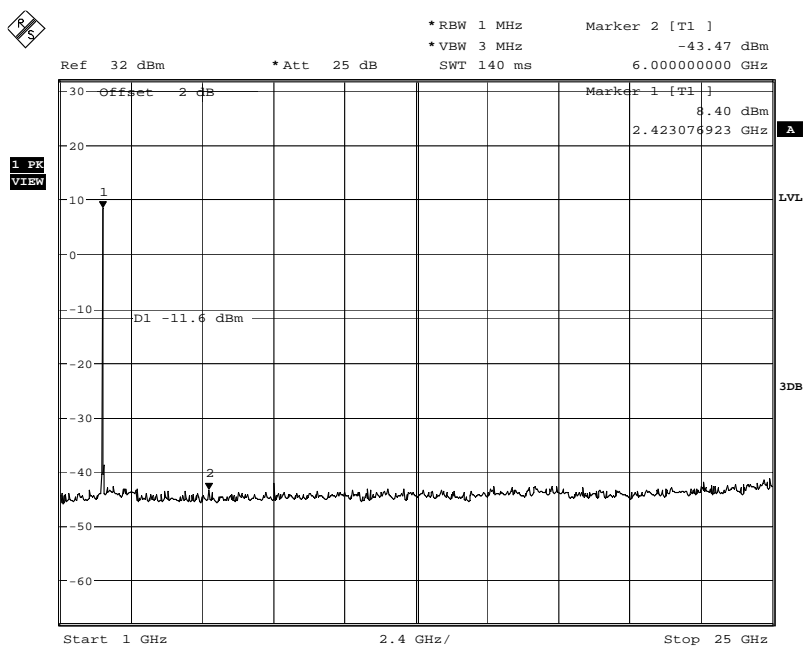
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### Middle channel



Sweep points = 20001



Sweep points = 20001

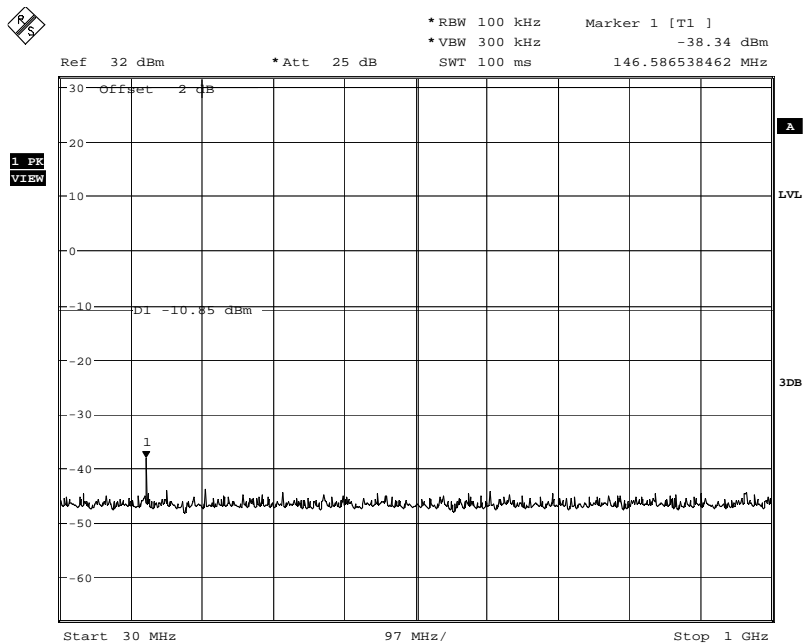
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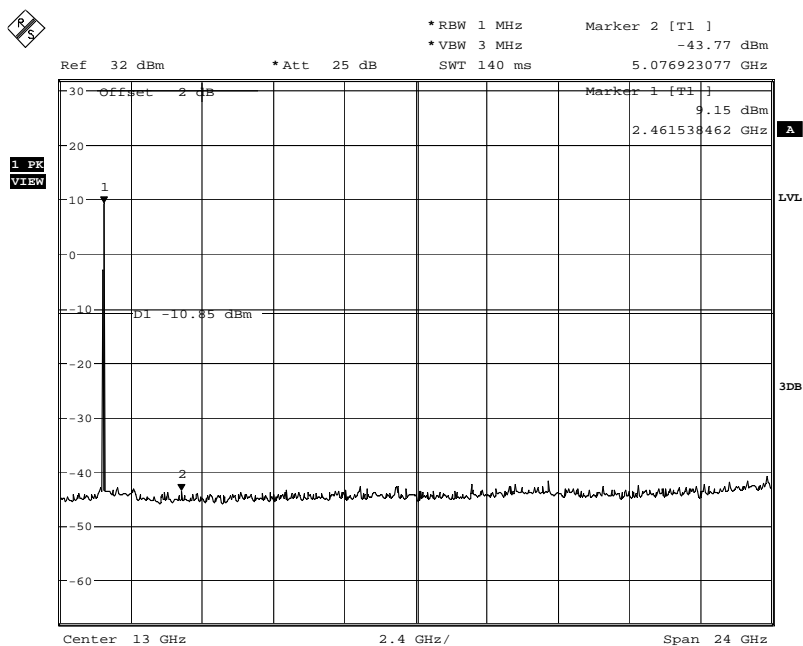
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High channel



Sweep points = 20001



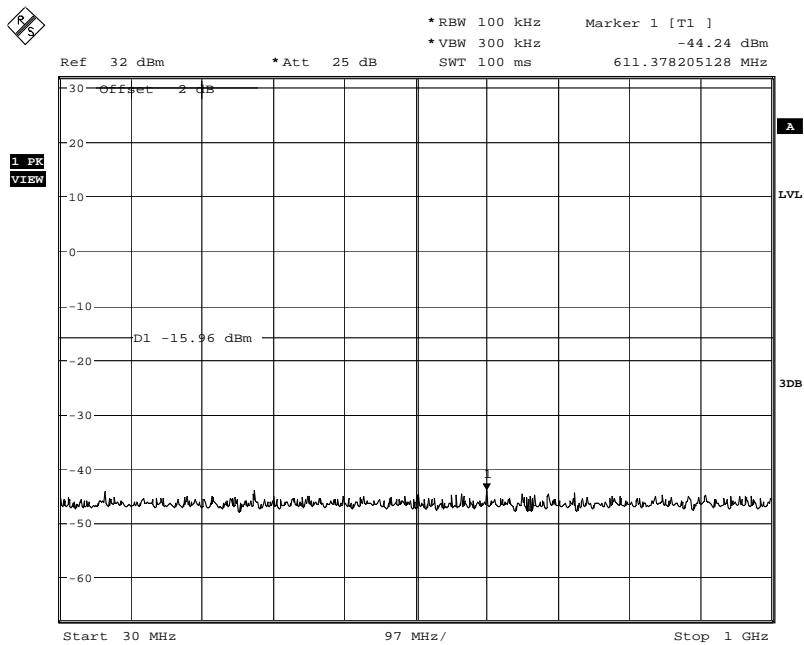
Sweep points = 20001

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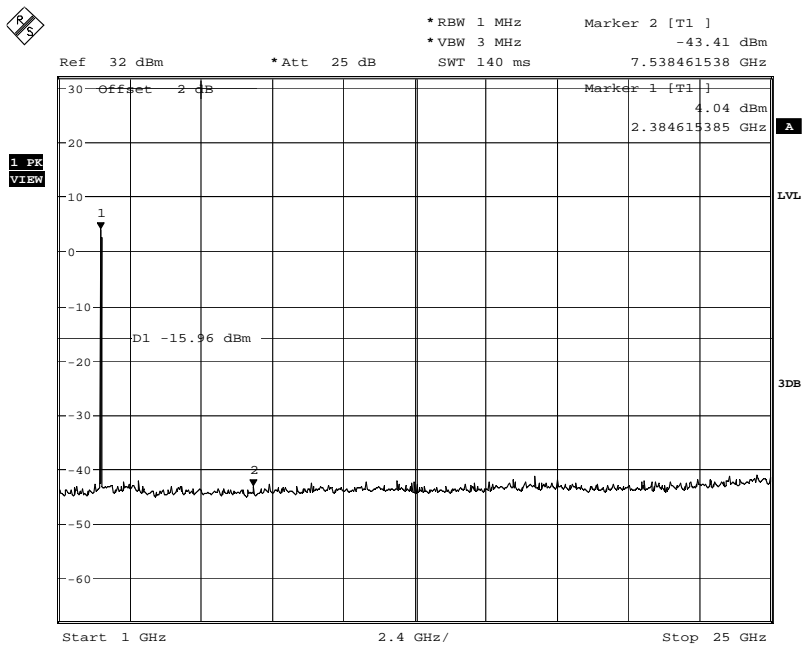


802.11g:

Low channel



Sweep points = 20001



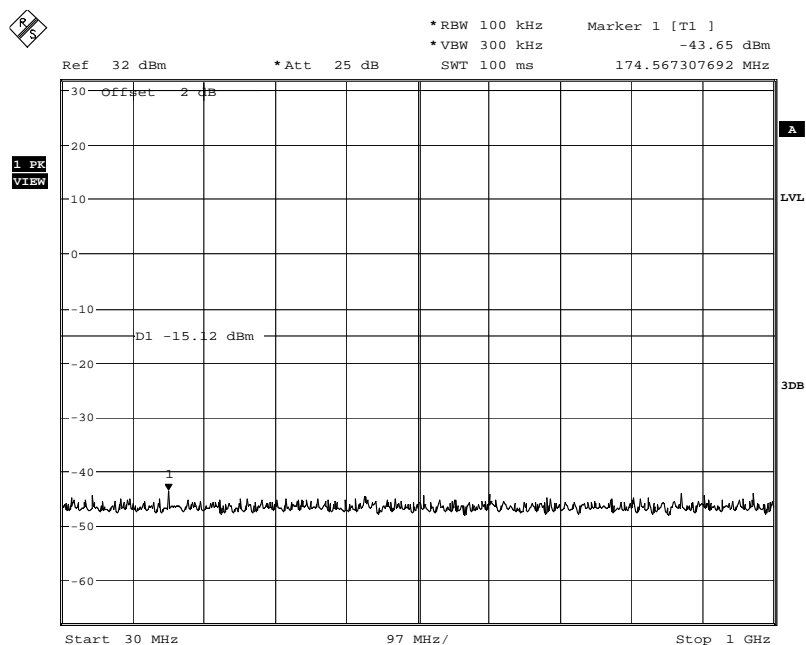
Sweep points = 20001

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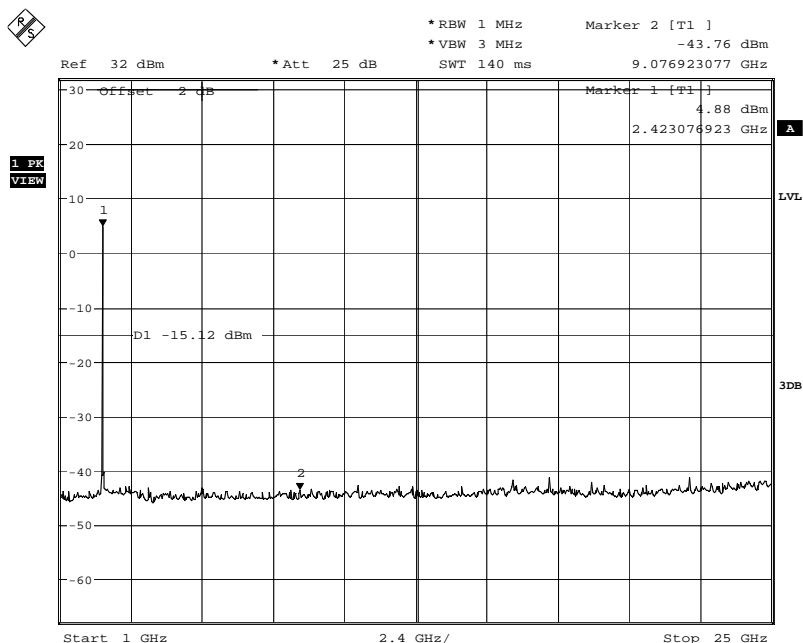




### Middle channel



Sweep points = 20001



Sweep points = 20001

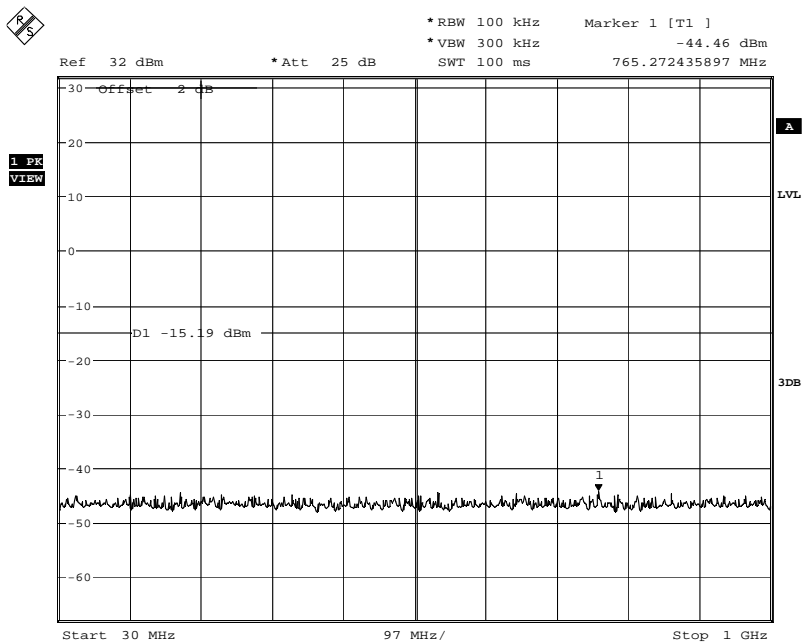
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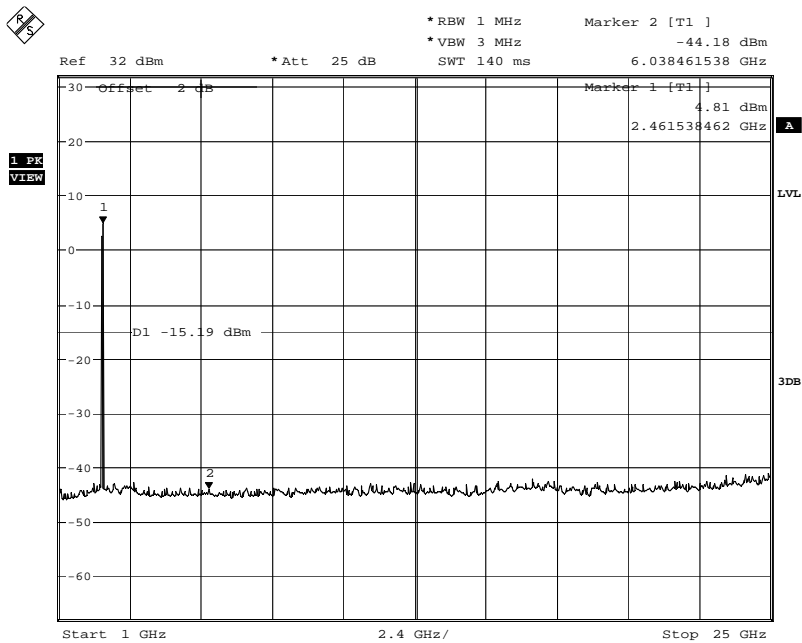
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High channel



Sweep points = 20001



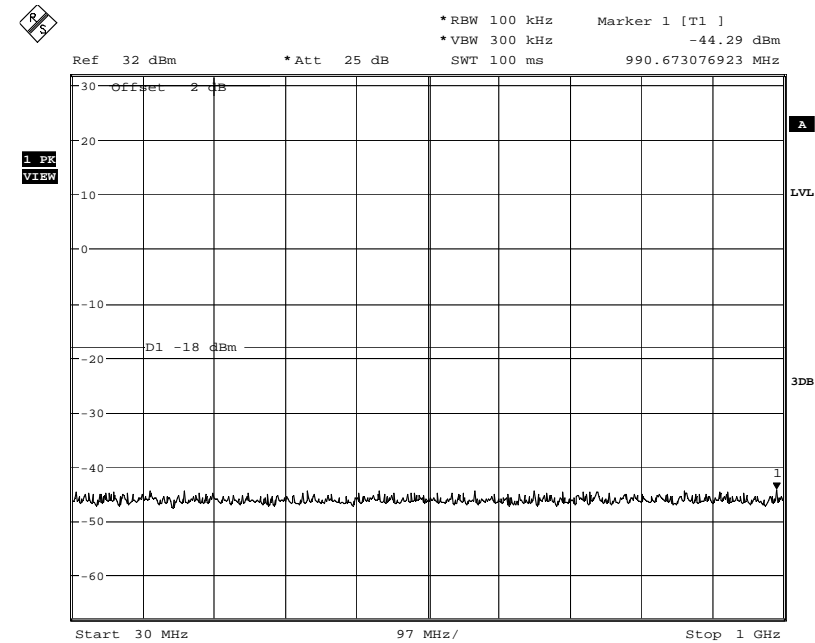
Sweep points = 20001

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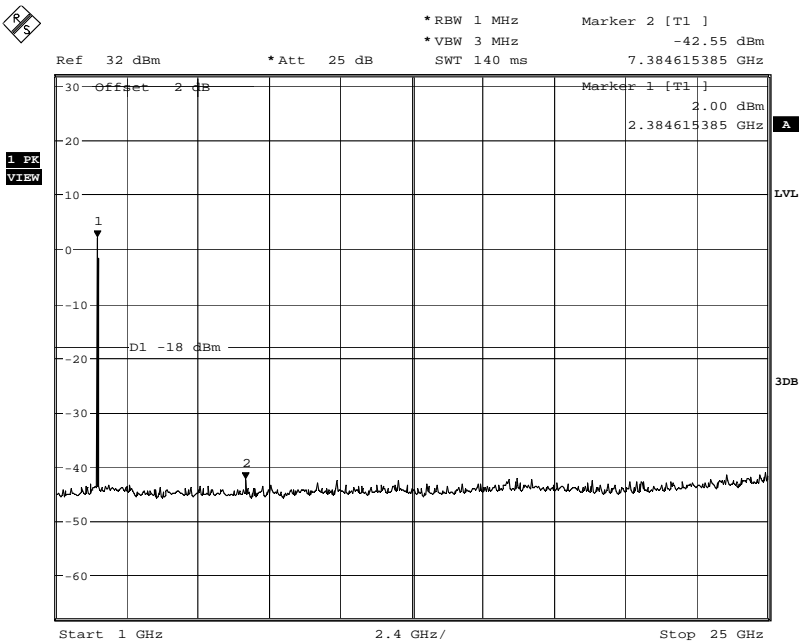


802.11n HT20:

Low channel



Sweep points = 20001

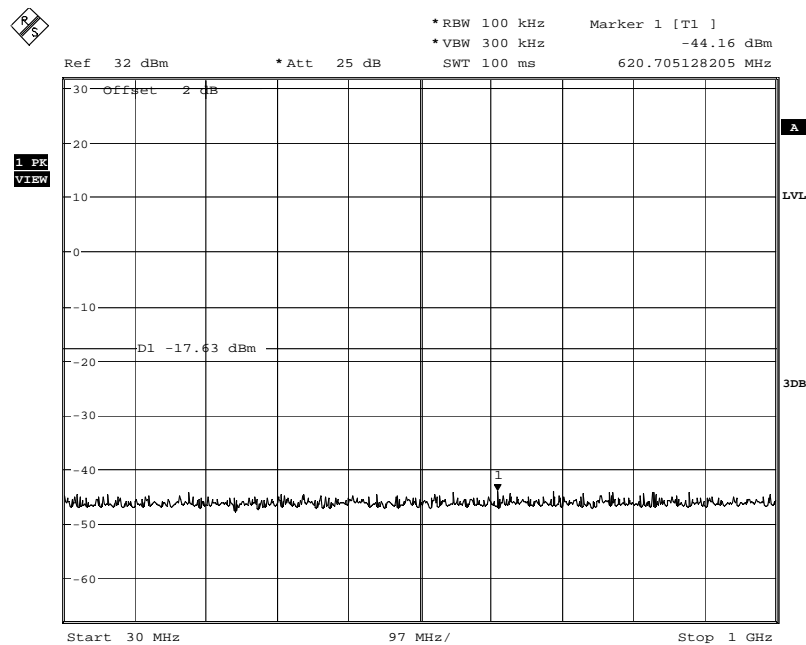


Sweep points = 20001

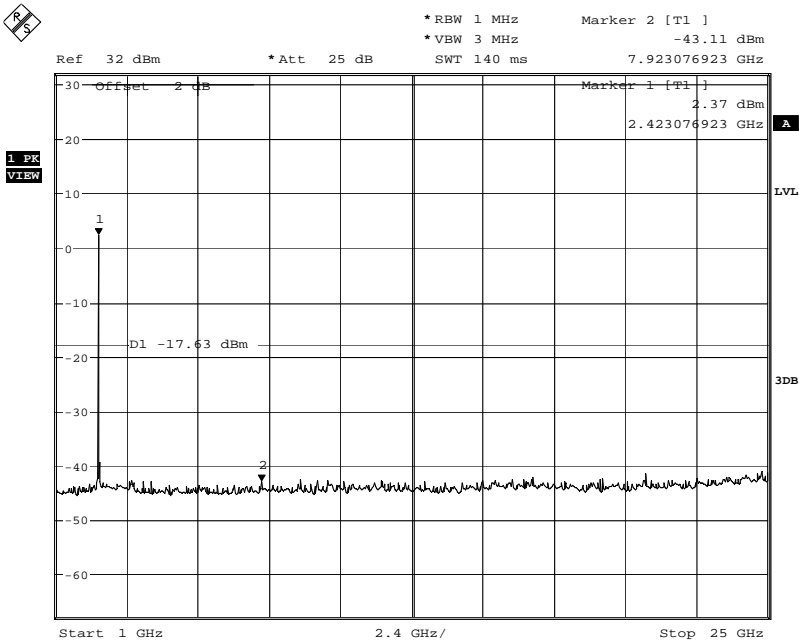
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Middle channel



Sweep points = 20001

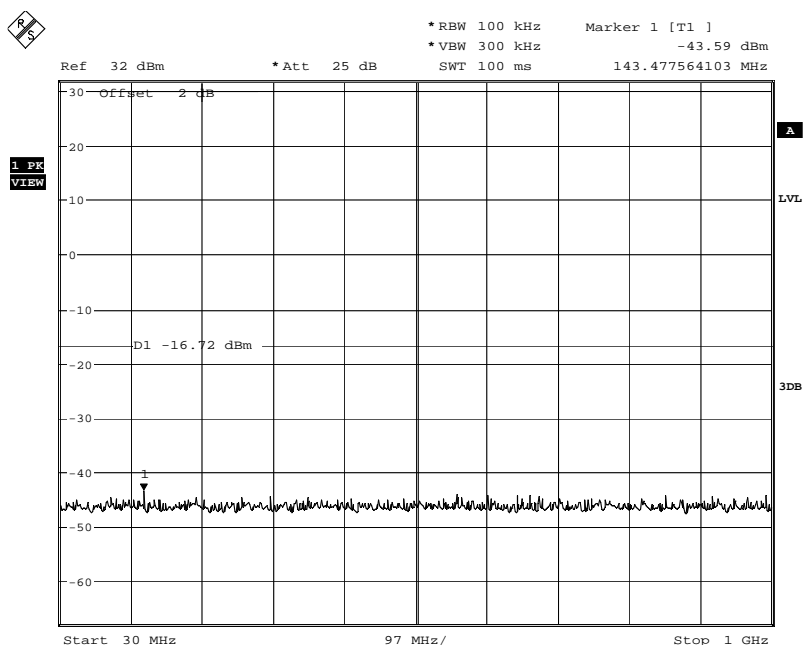


Sweep points = 20001

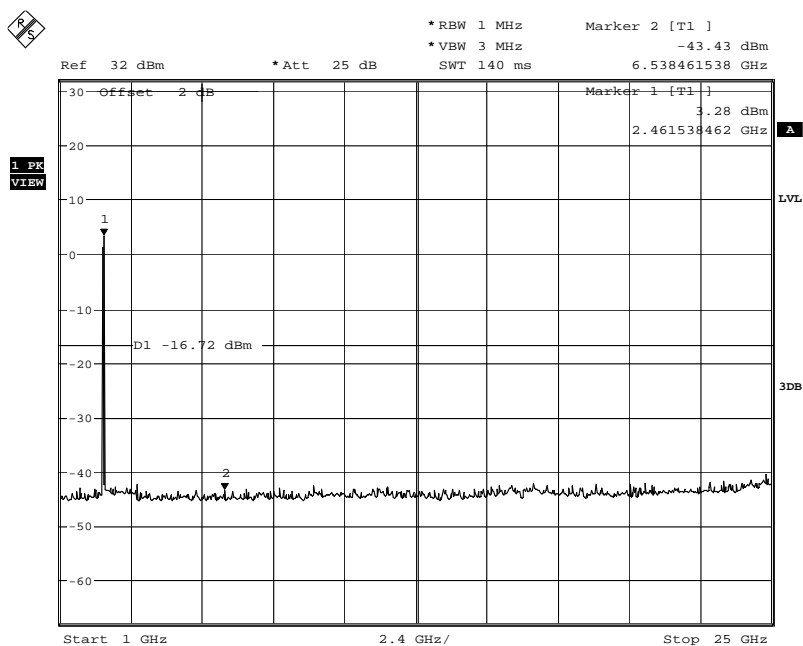
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### High channel



Sweep points = 20001



Sweep points = 20001

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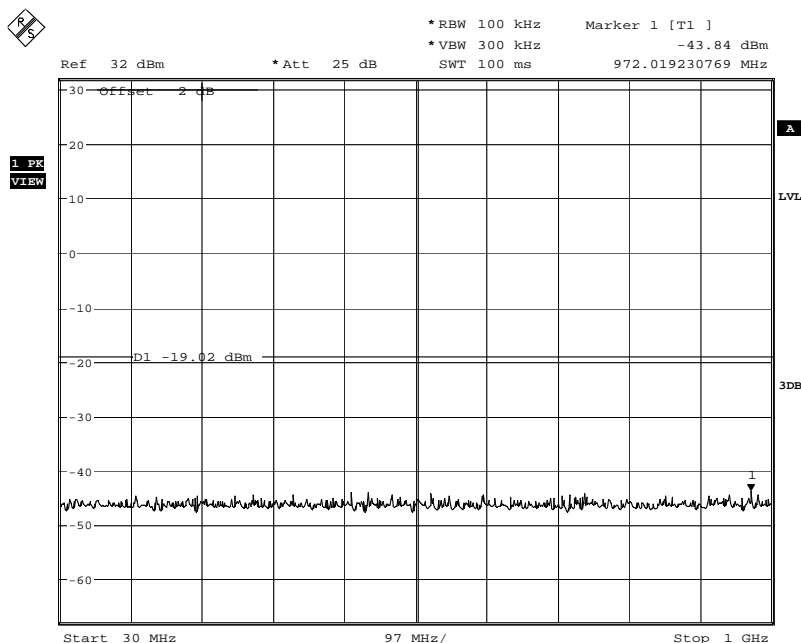
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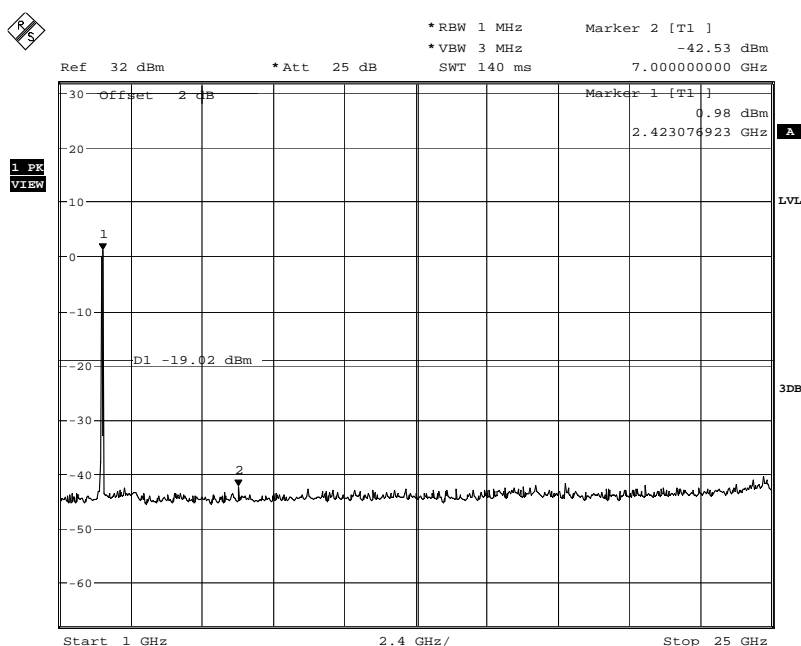


802.11n HT40:

*Low channel*



Sweep points = 20001

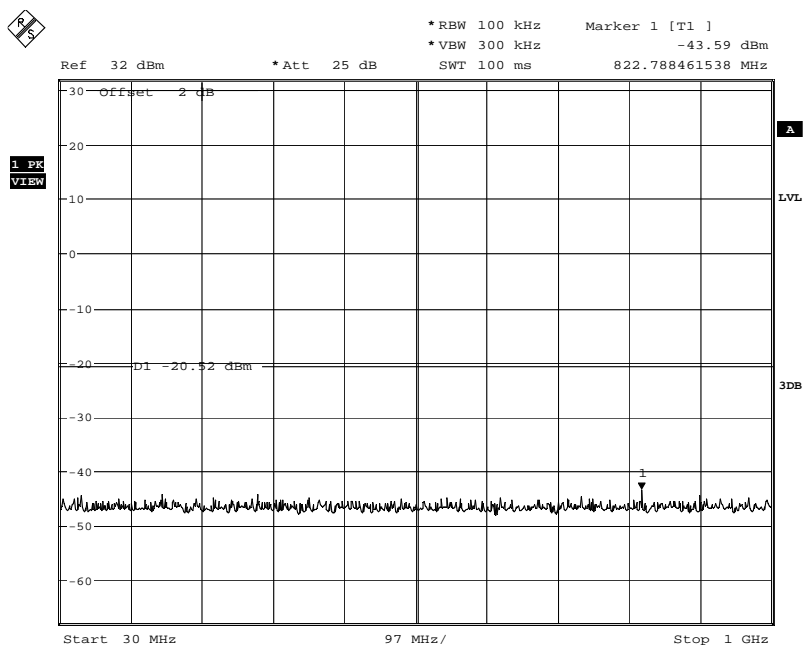


Sweep points = 20001

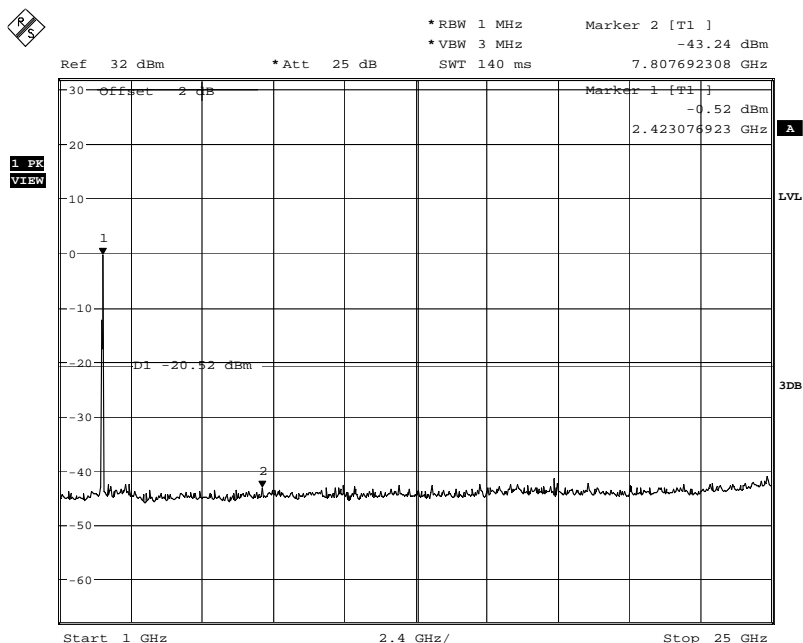
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### Middle channel



Sweep points = 20001



Sweep points = 20001

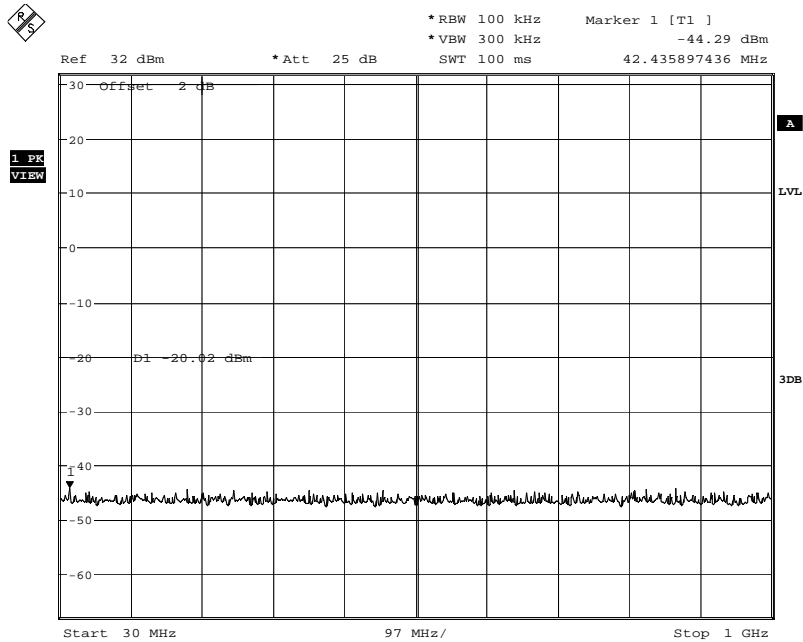
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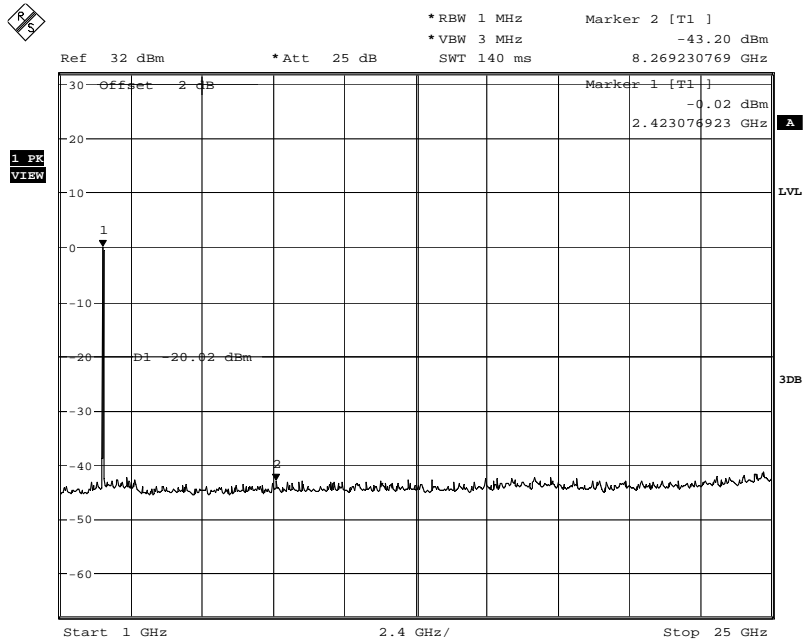
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High channel



Sweep points = 20001



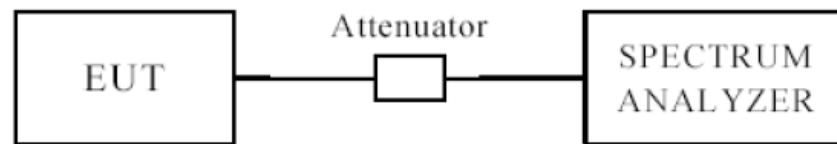
Sweep points = 20001

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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**



**6dB Occupied Bandwidth**

EUT		Tablet PC		Model		UH672G	
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 (kHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	1	9102.6	0.5	Pass		
6	2437	1	9038.5	0.5	Pass		
11	2462	1	9038.5	0.5	Pass		

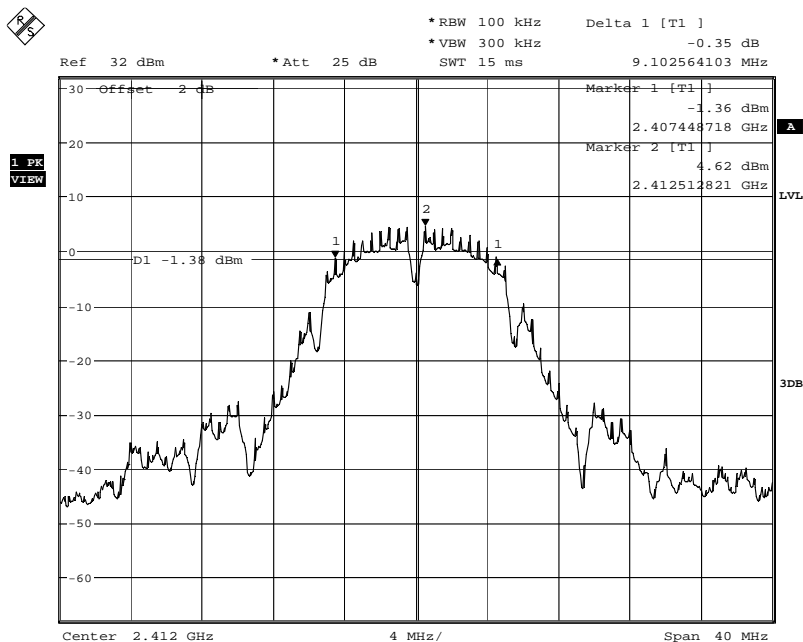
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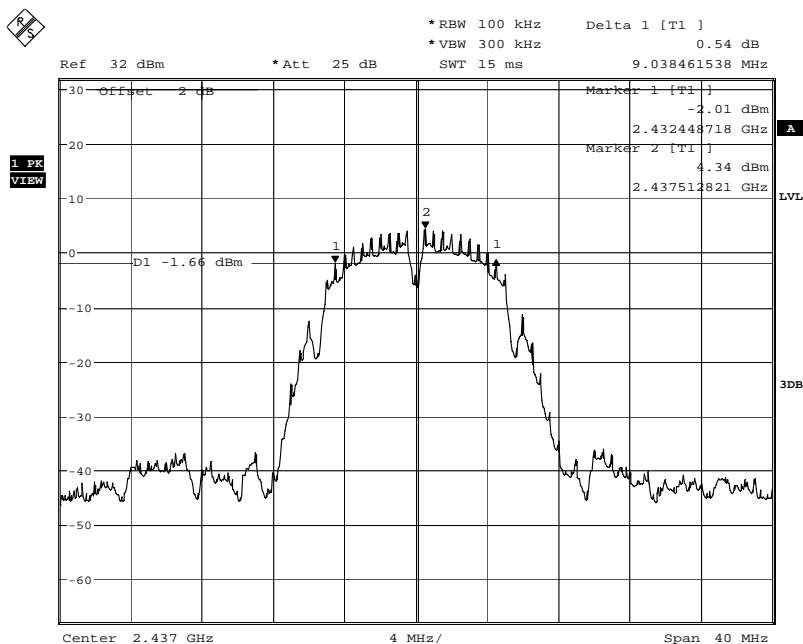
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### 1. 802.11b at 1Mbps of CH01



### 2. 802.11b at 1Mbps of CH06



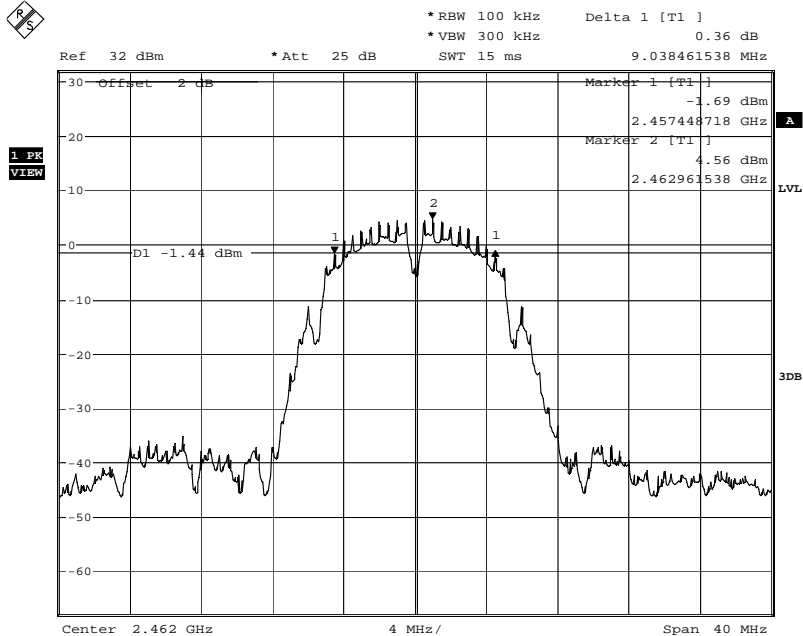
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3. 802.11b at 1Mbps of CH11



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**6dB Occupied Bandwidth**

EUT		Tablet PC		Model		UH672G	
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 (kHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	1	15769.2	0.5	Pass		
6	2437	1	15705.1	0.5	Pass		
11	2462	1	15769.2	0.5	Pass		

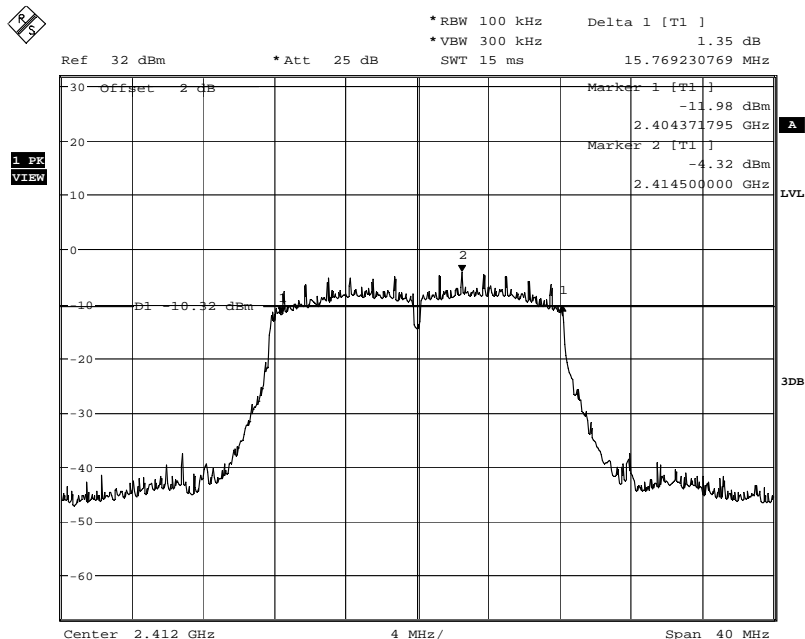
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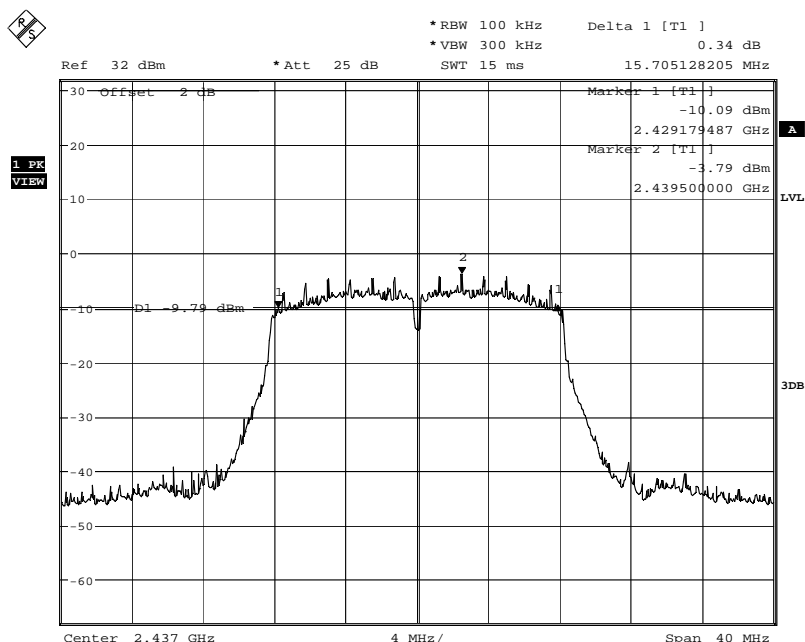
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## Test Plots:

### 1. 802.11g at 6Mbps of CH01



### 2. 802.11g at 6Mbps of CH06

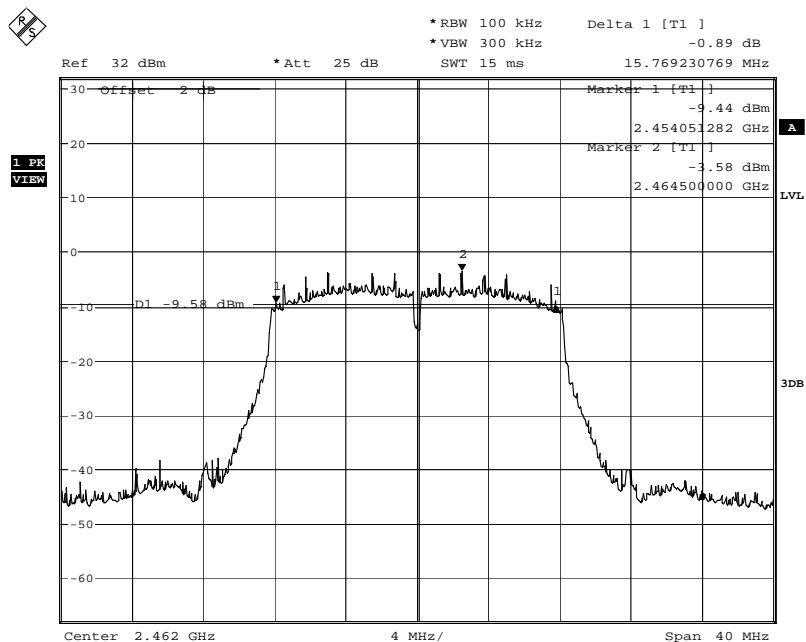


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### 3. 802.11g at 6Mbps of CH11



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**6dB Occupied Bandwidth**

EUT		Tablet PC		Model		UH672G	
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 (kHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	1	16153.8	0.5	Pass		
6	2437	1	16217.9	0.5	Pass		
11	2462	1	16217.9	0.5	Pass		

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

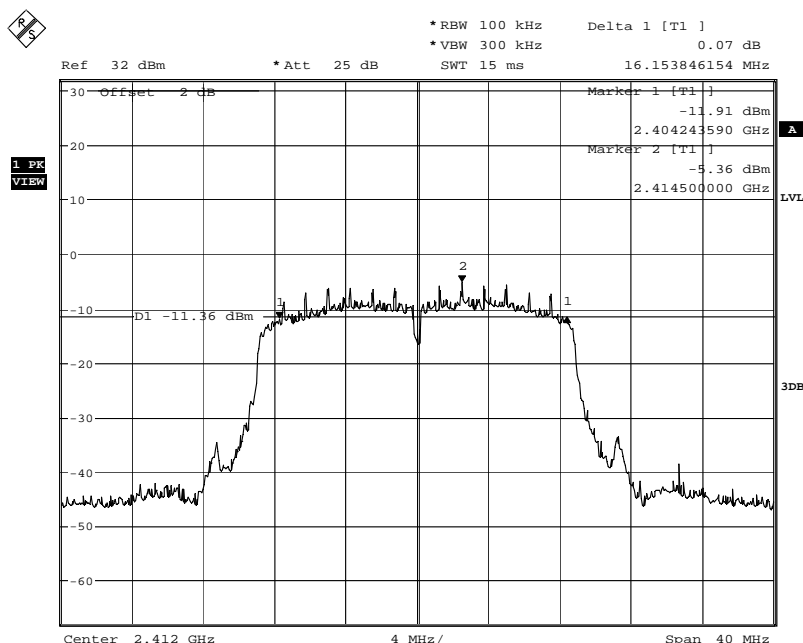
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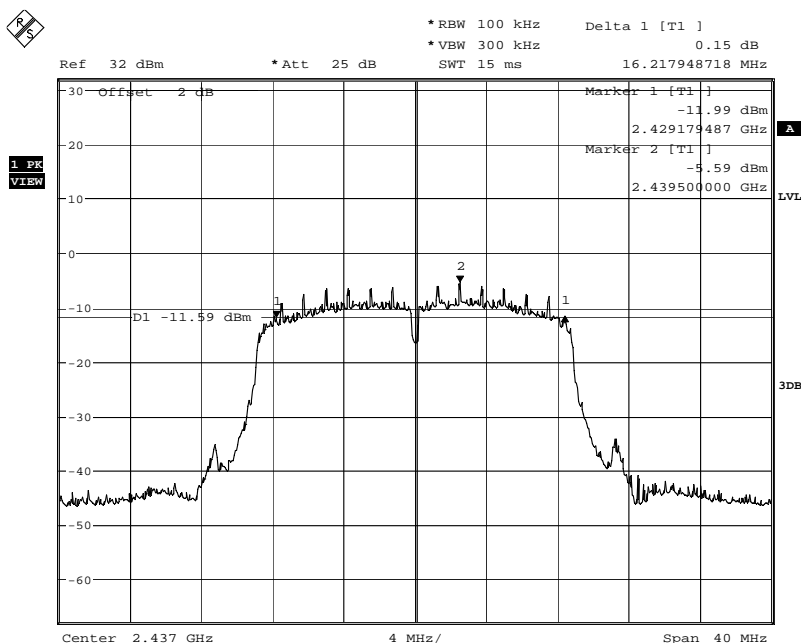


Test Plots:

### 1. 802.11n at HT20 of CH01



### 2. 802.11n at HT20 of CH06



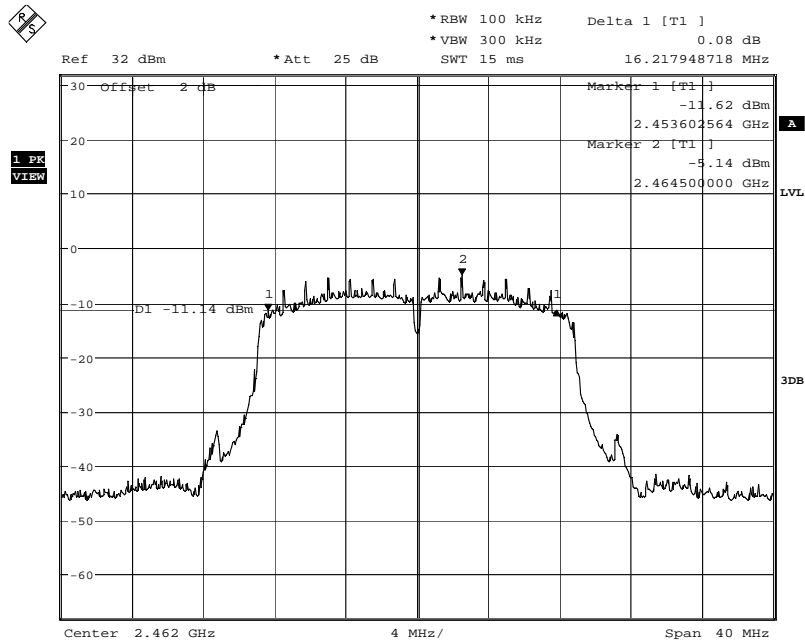
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3. 802.11n at HT20 of CH11



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**6dB Occupied Bandwidth**

EUT		Tablet PC		Model		UH672G	
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 (kHz)	Minimum Limit (MHz)	Pass/ Fail		
3	2422	1	36346.2	0.5	Pass		
6	2437	1	36153.8	0.5	Pass		
9	2452	1	36057.7	0.5	Pass		

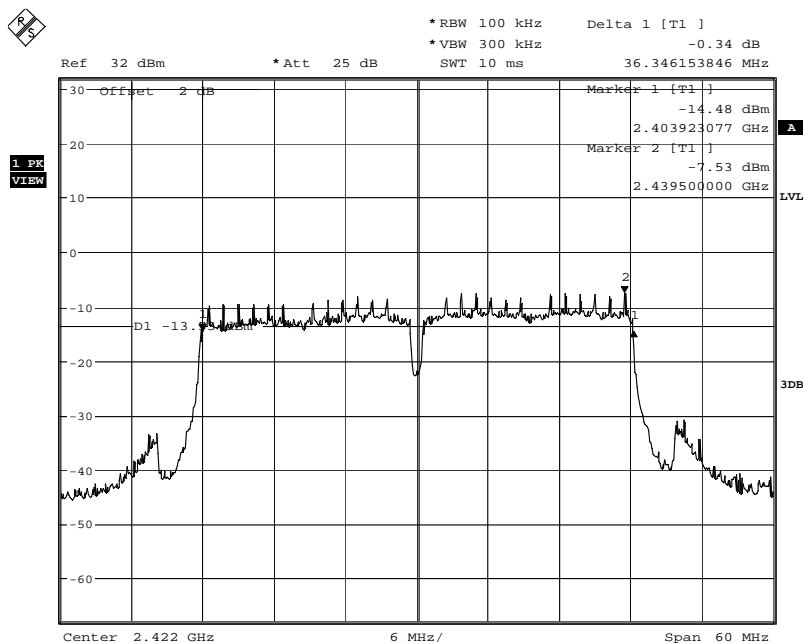
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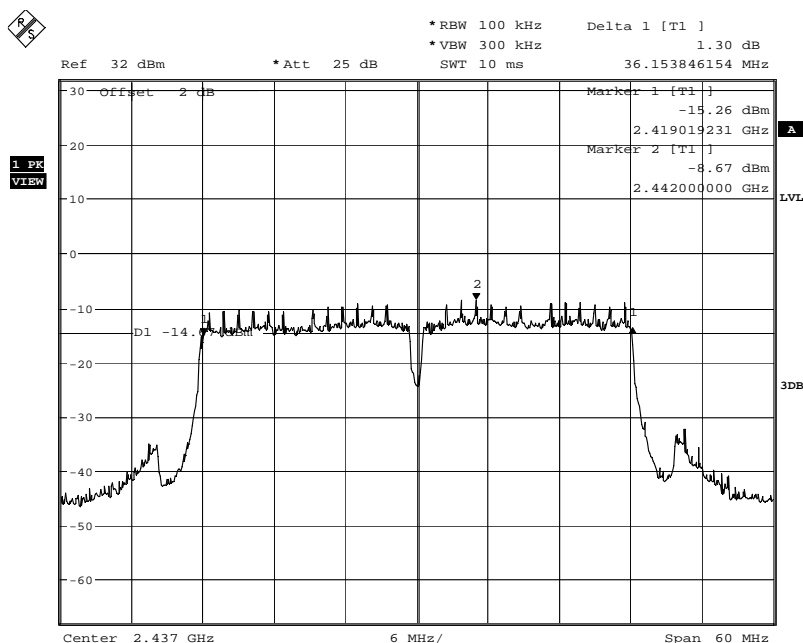
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## 1. 802.11n at HT40 of CH1



## 2. 802.11n at HT40 of CH4



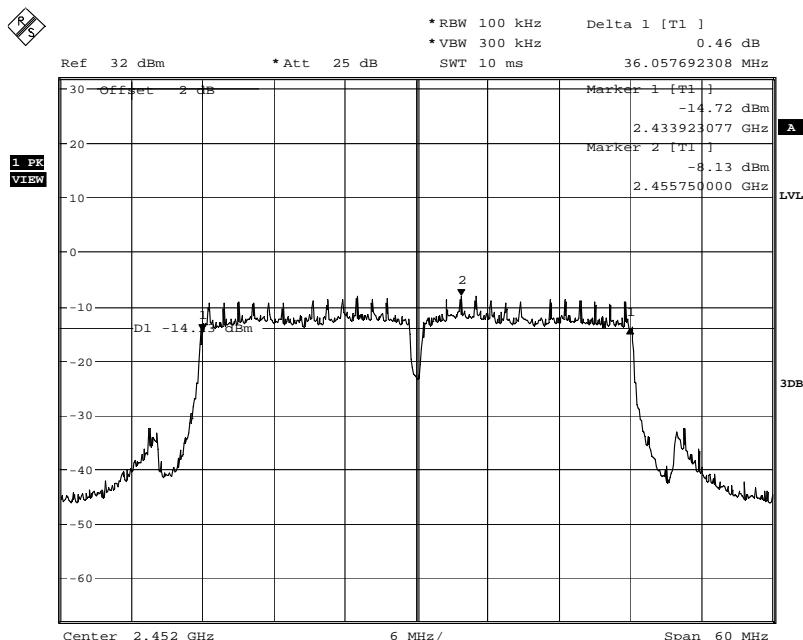
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### 3. 802.11n at HT40 of CH7



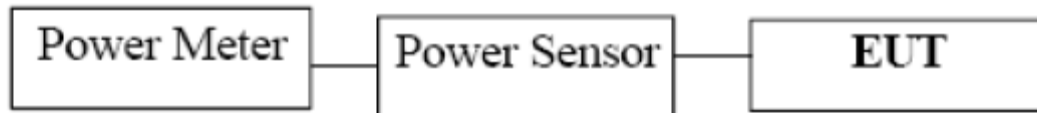
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## 8.0 *Maximum Peak Output Power*

### 8.1 *Test Setup*



### 8.2 *Limits of Maximum Peak Output Power*

The Maximum Peak Output Power Measurement is 30dBm.

### 8.3 *Test Procedure*

The RF power output was measured with a Power meter connected to the RF Antenna connector measurement ) while EUT was operating in transmit mode at the appropriate centre frequency.

*Note: the peak power was measured*



#### 8.4 Test Results

Antenna 0:

EUT		Tablet PC		Model		UH672G	
Mode		802.11b		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
1	2412		9.81		30		Pass
6	2437		9.68		30		Pass
11	2462		9.42		30		Pass

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

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

3. The worse case was recorded

EUT		Tablet PC		Model		UH672G	
Mode		802.11g		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail	
1	2412	8.26		30		Pass	
6	2437	8.06		30		Pass	
11	2462	7.79		30		Pass	

Note: 1. At final test to get the worst-case emission at 6 Mbps 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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EUT		Tablet PC		Model		UH672G	
Mode		802.11n(HT20)		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
1	2412		6.70		30		Pass
6	2437		6.39		30		Pass
11	2462		6.15		30		Pass

Note: 1. At final test to get the worst-case emission at 6.5Mbps 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		Tablet PC		Model		UH672G	
Mode		802.11n (HT40)		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
3	2422		5.34		30		Pass
6	2437		5.21		30		Pass
9	2452		5.47		30		Pass

Note: 1. At final test to get the worst-case emission at 13.5Mbps for CH03, CH06 and CH09

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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Antenna 1:

EUT		Tablet PC		Model		UH672G	
Mode		802.11b		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
1	2412		13.45		30		Pass
6	2437		13.30		30		Pass
11	2462		13.41		30		Pass

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

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

3. The worse case was recorded

EUT		Tablet PC		Model		UH672G	
Mode		802.11g		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
1	2412		10.49		30		Pass
6	2437		10.47		30		Pass
11	2462		<b>10.61</b>		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

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EUT		Tablet PC		Model		UH672G	
Mode		802.11n(HT20)		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail	
1	2412	8.90		30		Pass	
6	2437	8.67		30		Pass	
11	2462	<b>9.01</b>		30		Pass	

Note: 1. At final test to get the worst-case emission at 6.5Mbps 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		Tablet PC		Model		UH672G	
Mode		802.11n (HT40)		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail	
3	2422	7.69		30		Pass	
6	2437	7.88		30		Pass	
9	2452	8.07		30		Pass	

Note: 1. At final test to get the worst-case emission at 13.5Mbps for CH03, CH06 and CH09

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

3. The worse case was recorded

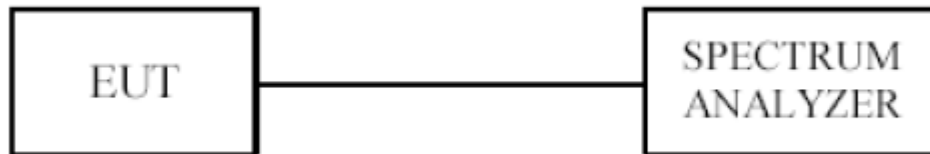
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## **9.0 Power Spectral Density Measurement**

### **9.1 Test Setup**



### **9.2 Limits of Power Spectral Density Measurement**

The Maximum Power Spectral Density Measurement is 8dBm.

### **9.3 Test Procedure**

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 3 kHz.
3. Set the VBW = 10 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.



#### 9.4 Test Result

EUT		Tablet PC		Model		UH672G	
Mode		802.11b		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
1Mbps							
1	2412		-10.23		8		Pass
6	2437		-9.25		8		Pass
11	2462		-9.71		8		Pass

EUT		Tablet PC		Model		UH672G			
Mode		802.11g		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	
6Mbps									
1		2412		-18.35		8		Pass	
6		2437		-18.86		8		Pass	
11		2462		-18.18		8		Pass	

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EUT		Tablet PC		Model		UH672G	
Mode		802.11n HT20		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
6.5Mbps							
1	2412		-20.40		8		Pass
6	2437		-19.98		8		Pass
11	2462		-19.22		8		Pass

EUT		Tablet PC		Model		UH672G	
Mode		802.11n HT40		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
13.5Mbps							
3	2422		-21.91		8		Pass
6	2437		-23.18		8		Pass
9	2452		-22.47		8		Pass

Remark: All of the modes have been investigated, and only worst mode is presented in this report.

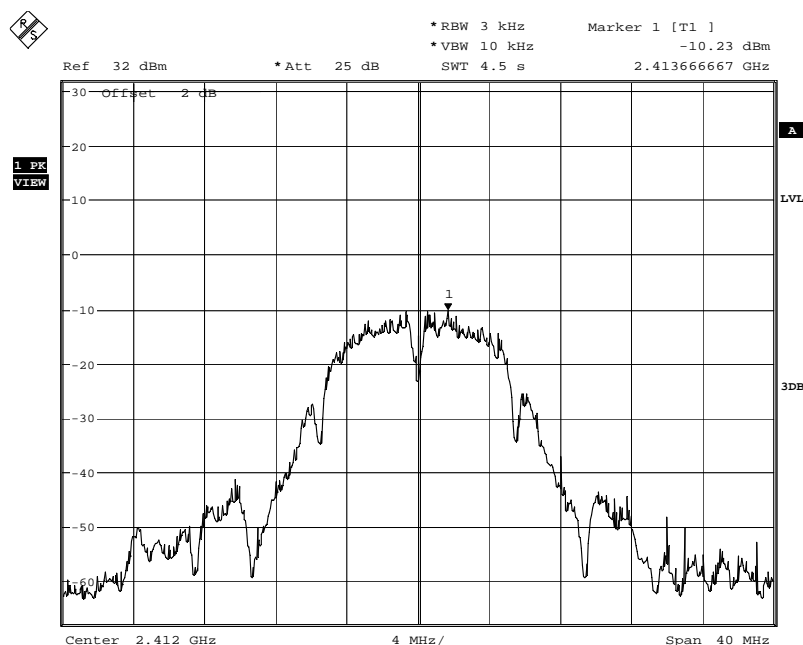
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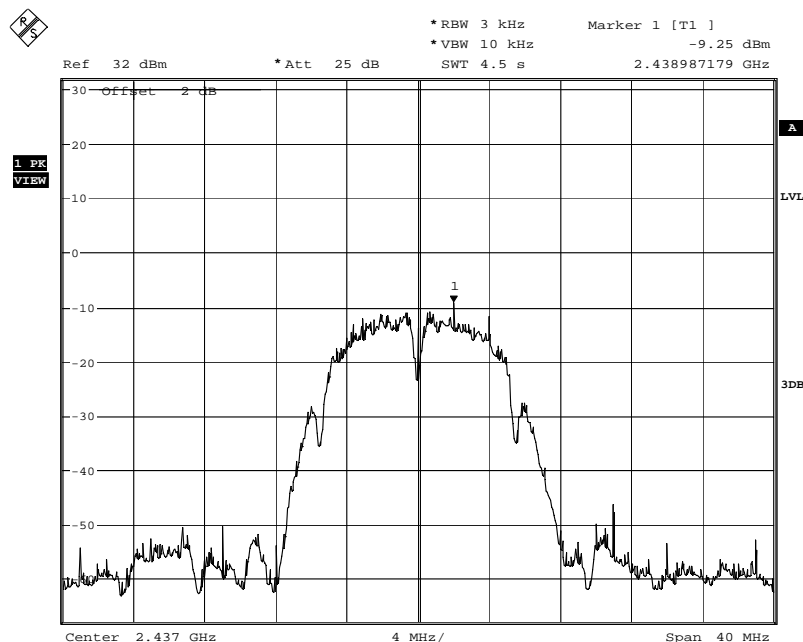
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## 9.5 Photo of Power Spectral Density Measurement

1.802.11b at 1Mbps of CH01



2. 802.11b at 1Mbps at CH06



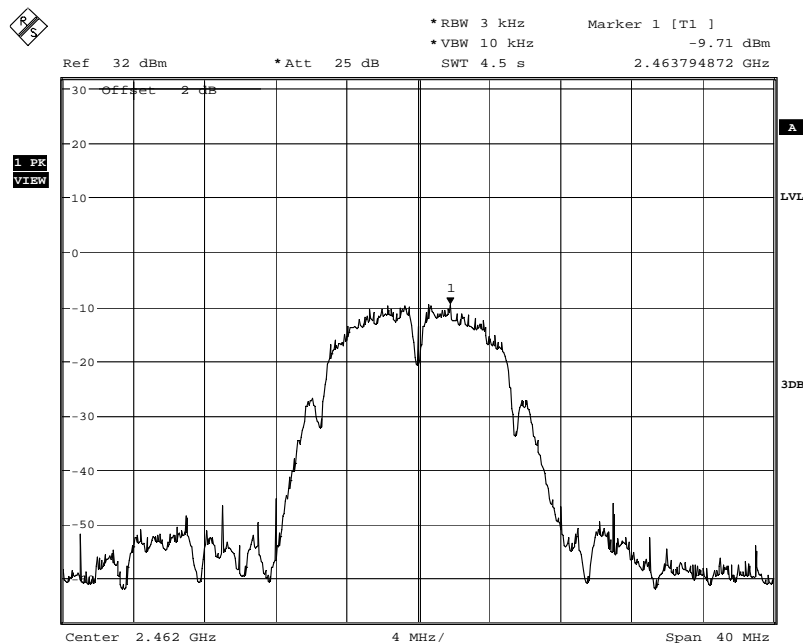
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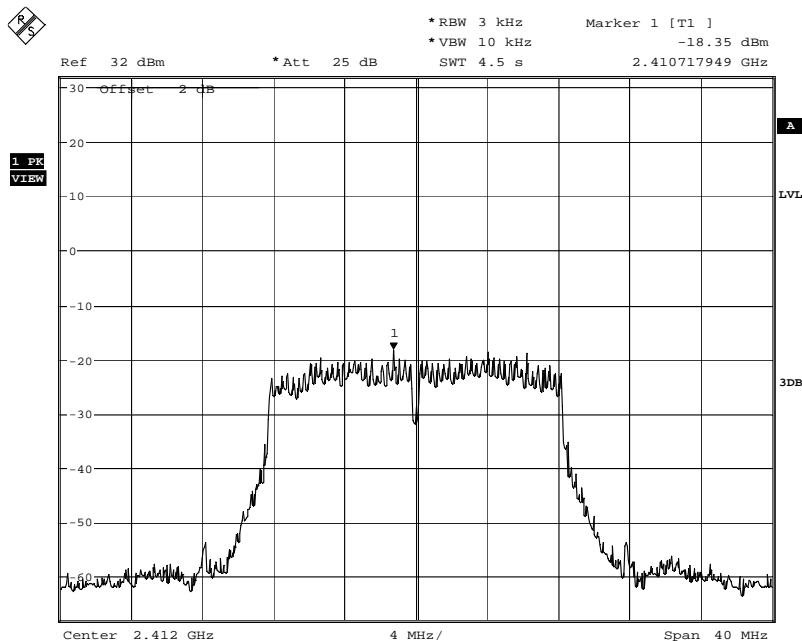
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### 3. 802.11b at 1Mbps of CH11



### 4. 802.11g at 6Mbps of CH01



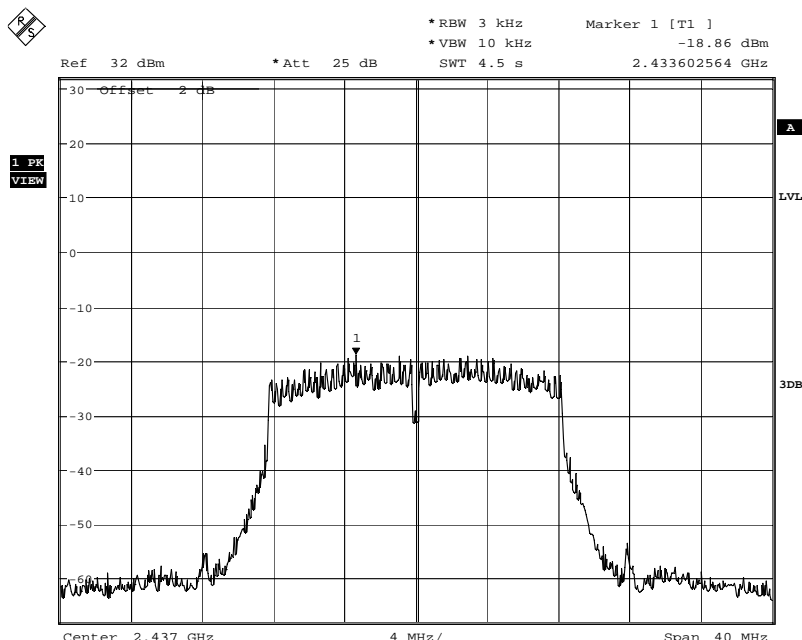
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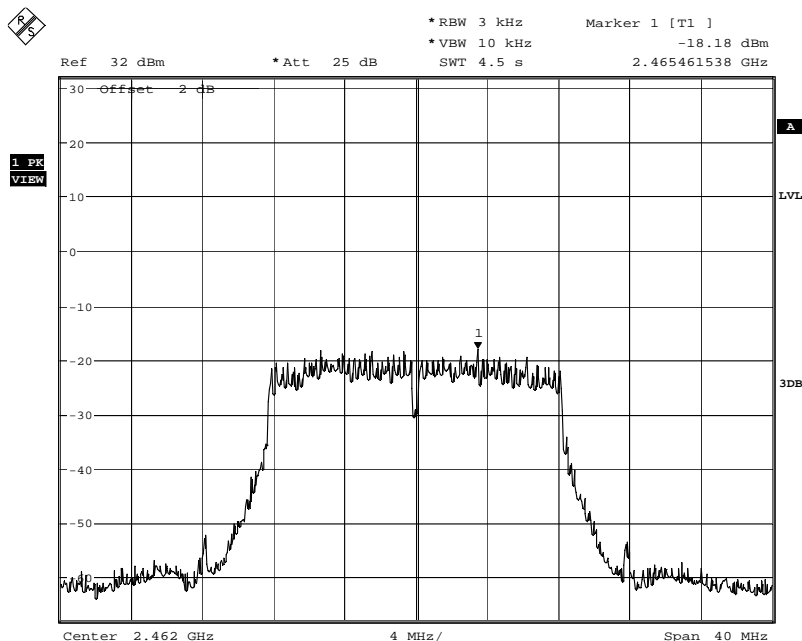
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## 5. 802.11g at 6Mbps of CH06



## 6. 802.11g at 6Mbps of CH11



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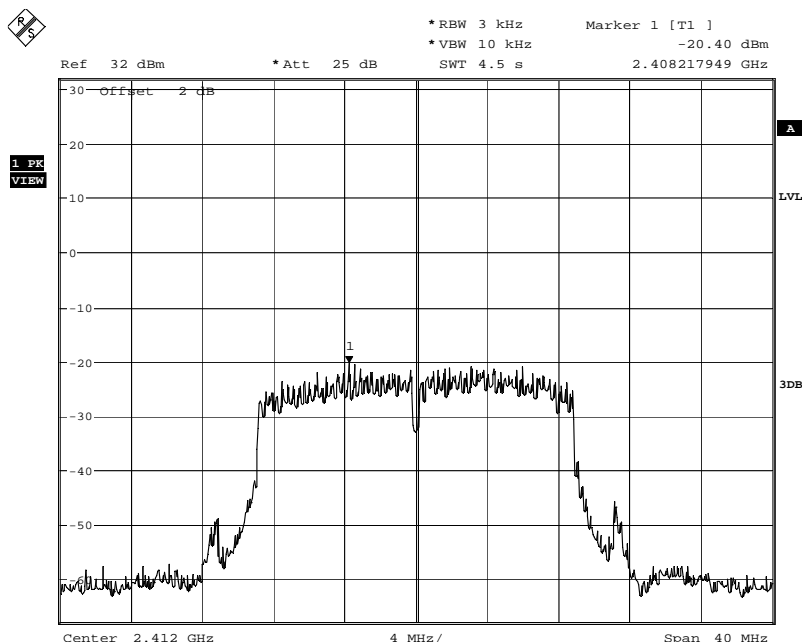
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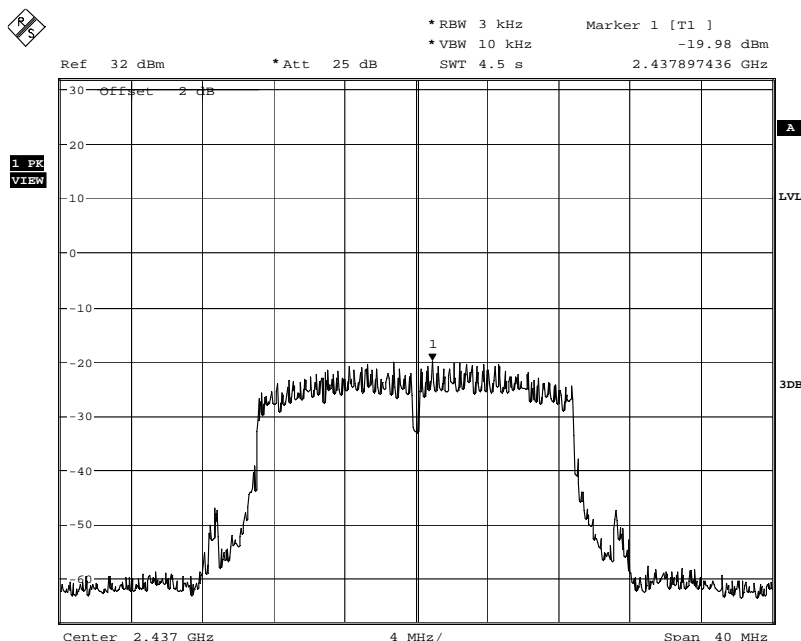




## 7. 802.11n HT20 at 6.5Mbps of CH01



## 8. 802.11n HT20 at 6.5Mbps of CH06



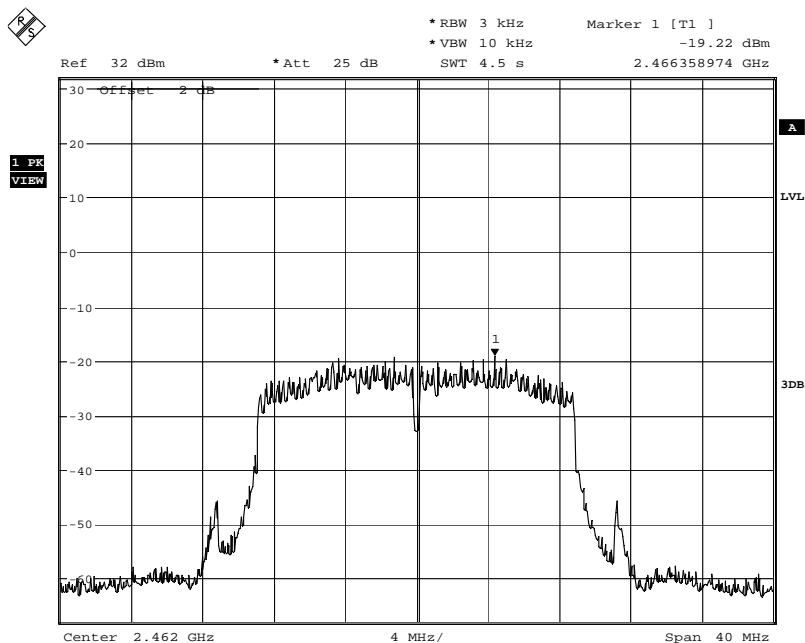
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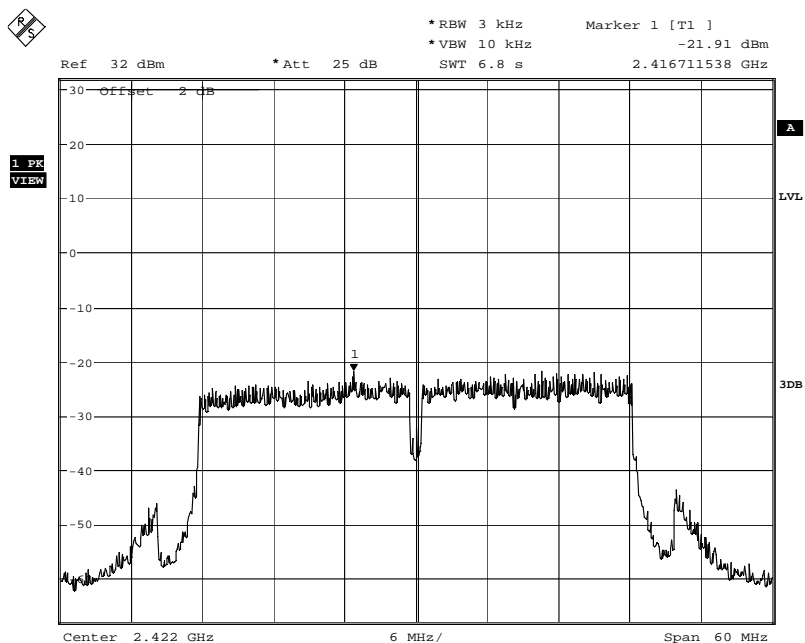
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## 9. 802.11n HT20 at 6.5Mbps of CH11



## 10. 802.11n HT40 at 13.5Mbps of CH03

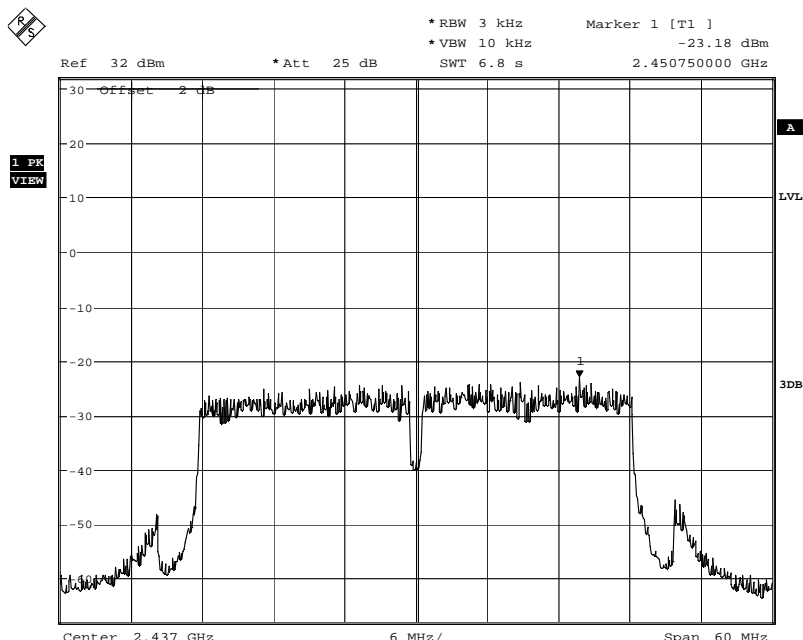


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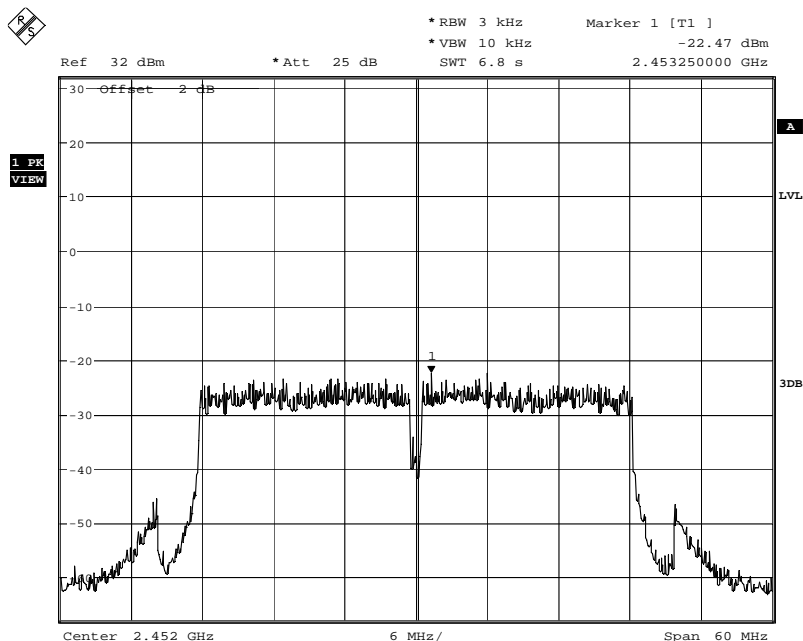
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# 11. 802.11n HT40 at 13.5Mbps of CH06



# 12. 802.11n HT40 at 13.5Mbps of CH09



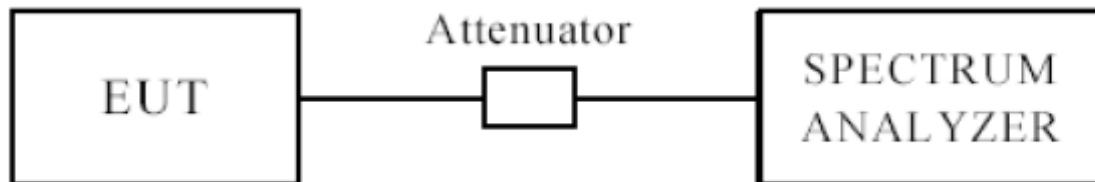
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## **10 Out of Band Measurement**

### **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=100, VBW=100 kHz. A conducted measurement used

### **10.4 Test Result**

Please see next pages

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



**Radiated measurement:**

**802.11b**

Indicated		result PK/AV)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dBμV/m)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit dBμV/m)	Margin (dB)
Low Channel (2412MHz)											
2390	38.72	AV	130	1	V	30.3	4.1	33.1	40.02	54	13.98
2390	41.92	AV	340	1.5	H	30.3	4.1	33.1	43.22	54	10.78
2390	58.44	PK	200	2	V	30.3	4.1	33.1	59.74	74	14.26
2390	60.99	PK	160	1	H	30.3	4.1	33.1	62.29	74	11.71
High Channel (2462MHz)											
2483.5	42.63	AV	250	1.5	V	31	4.4	32.7	45.33	54	8.67
2483.5	43.31	AV	340	2	H	31	4.4	32.7	46.01	54	7.99
2483.5	59.69	PK	230	2	V	31	4.4	32.7	62.39	74	11.61
2483.5	61.14	PK	280	1.5	H	31	4.4	32.7	63.84	74	10.16

**802.11g**

Indicated		result PK/AV)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dBμV/m)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit dBμV/m)	Margin (dB)
Low Channel (2412MHz)											
2390	41.18	AV	330	1	V	30.3	4.1	33.1	42.48	54	11.52
2390	42.02	AV	200	1.5	H	30.3	4.1	33.1	43.32	54	10.68
2390	61.88	PK	260	2	V	30.3	4.1	33.1	63.18	74	10.82
2390	66.16	PK	310	2	H	30.3	4.1	33.1	67.46	74	6.54
High Channel (2462MHz)											
2483.5	41.12	AV	120	1.5	V	31	4.4	32.7	43.82	54	10.18
2483.5	44.93	AV	170	1	H	31	4.4	32.7	47.63	54	6.37
2483.5	59.52	PK	230	2	V	31	4.4	32.7	62.22	74	11.78
2483.5	62.58	PK	210	1	H	31	4.4	32.7	65.28	74	8.72

Note: The BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.

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**802.11n HT20**

Indicated		result PK/AV)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dBμV/m)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit dBμV/m)	Margin (dB)
Low Channel (2412MHz)											
2390	40.29	AV	120	2	V	30.3	4.1	33.1	41.59	54	12.41
2390	42.80	AV	200	2	H	30.3	4.1	33.1	44.10	54	9.90
2390	57.74	PK	190	1.5	V	30.3	4.1	33.1	59.04	74	14.96
2390	61.58	PK	310	1	H	30.3	4.1	33.1	62.88	74	11.12
High Channel (2462MHz)											
2483.5	43.24	AV	330	2	V	31	4.4	32.7	45.94	54	8.06
2483.5	45.37	AV	340	1	H	31	4.4	32.7	48.07	54	5.93
2483.5	64.15	PK	110	1.5	V	31	4.4	32.7	66.85	74	7.15
2483.5	66.49	PK	110	2	H	31	4.4	32.7	69.19	74	4.81

**802.11n HT40**

Indicated		result PK/AV)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dBμV/m)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit dBμV/m)	Margin (dB)
Low Channel (2422MHz)											
2390	38.49	AV	350	1.5	V	30.3	4.1	33.1	39.79	54	14.21
2390	41.57	AV	220	1.5	H	30.3	4.1	33.1	42.87	54	11.13
2390	64.99	PK	220	1.5	V	30.3	4.1	33.1	66.29	74	7.71
2390	69.68	PK	240	2	H	30.3	4.1	33.1	70.98	74	3.02
High Channel (2452MHz)											
2483.5	38.25	AV	250	1	V	31	4.4	32.7	40.95	54	13.05
2483.5	40.31	AV	330	1	H	31	4.4	32.7	43.01	54	10.99
2483.5	64.25	PK	260	2	V	31	4.4	32.7	66.95	74	7.05
2483.5	66.45	PK	350	1.5	H	31	4.4	32.7	69.15	74	4.85

Note: The BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.

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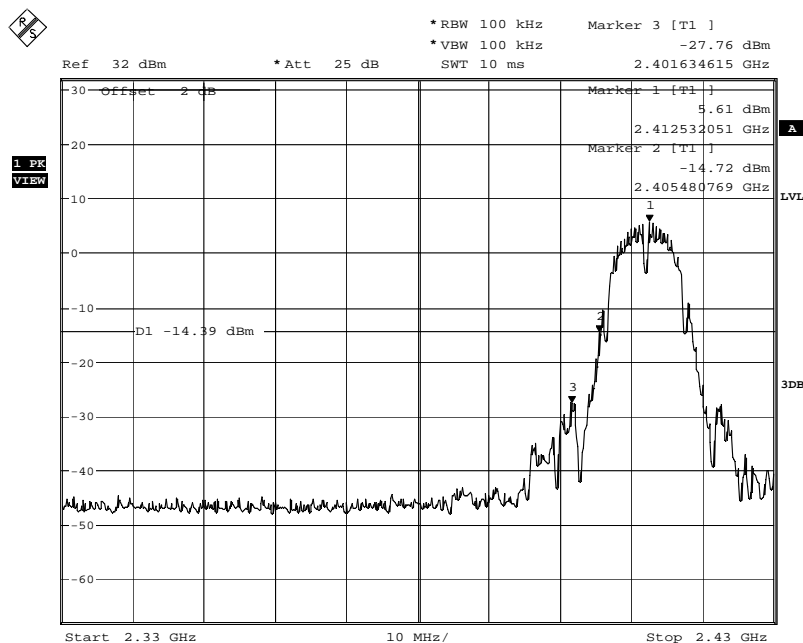
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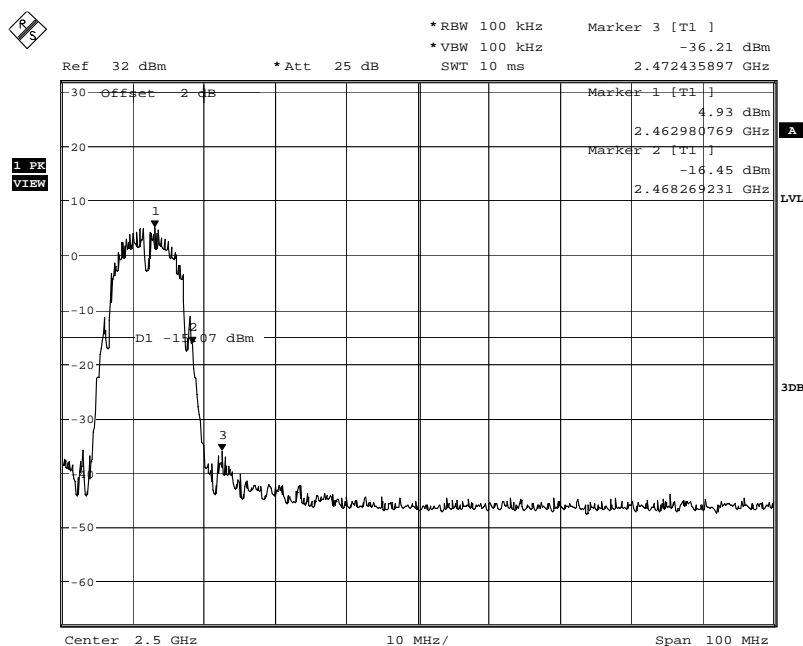
**Conducted measurement:**

**802.11b:**

**Low channel**



**High channel**



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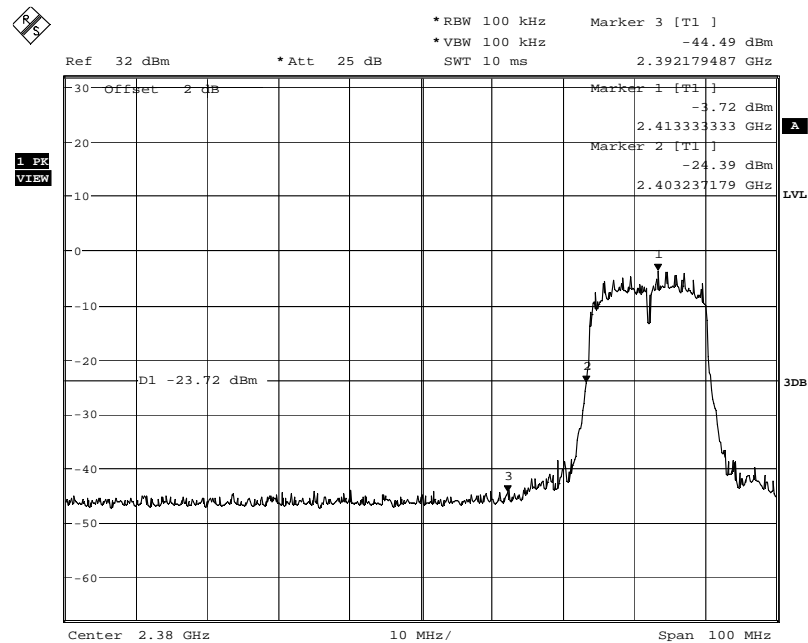
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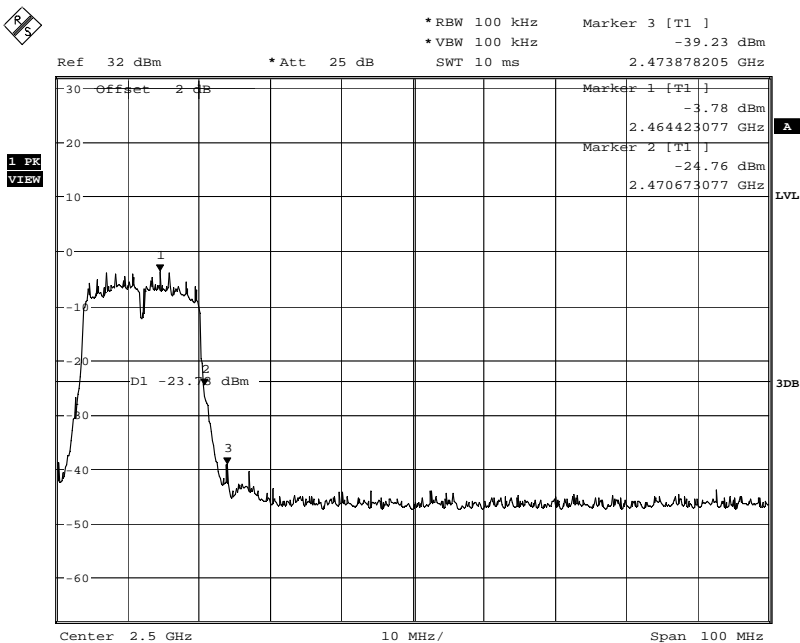


802.11g:

Low channel



High channel



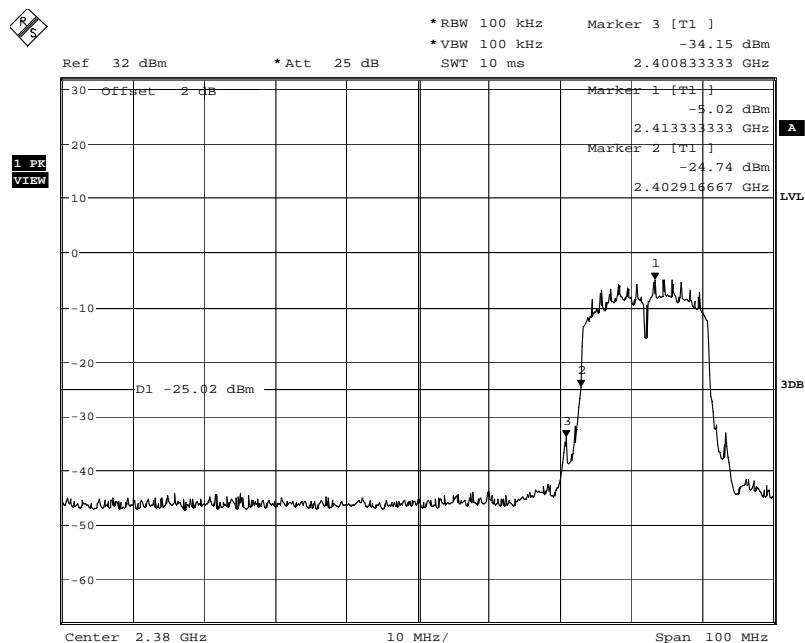
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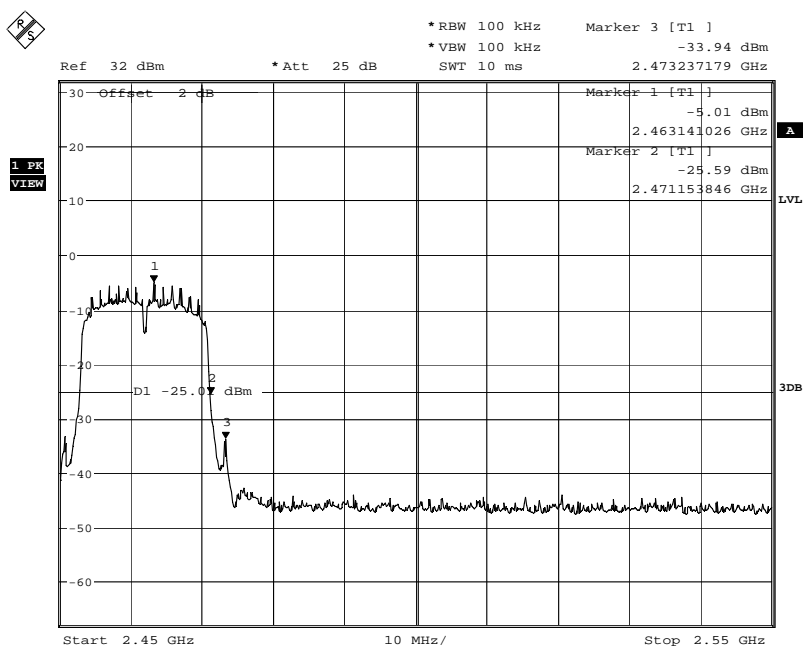


802.11n HT20:

### Low channel



### High channel



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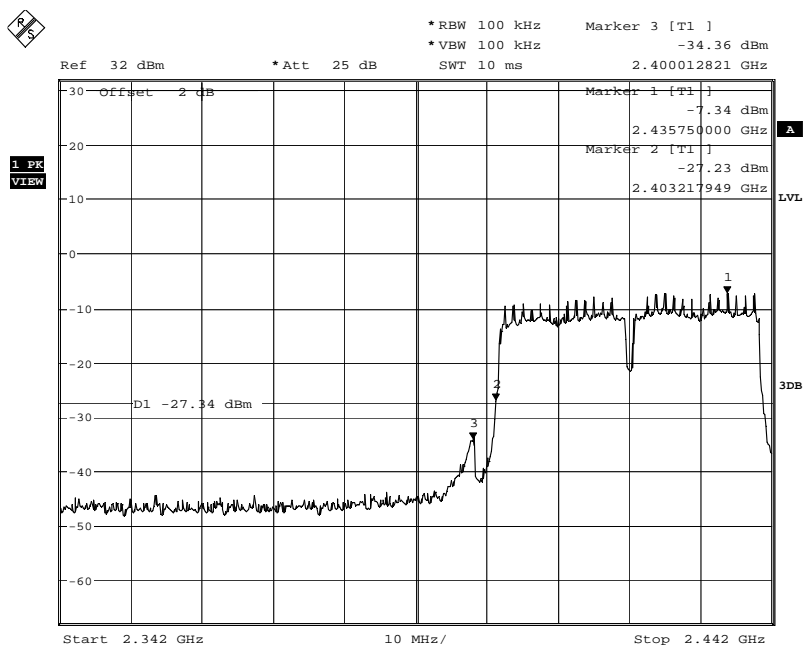
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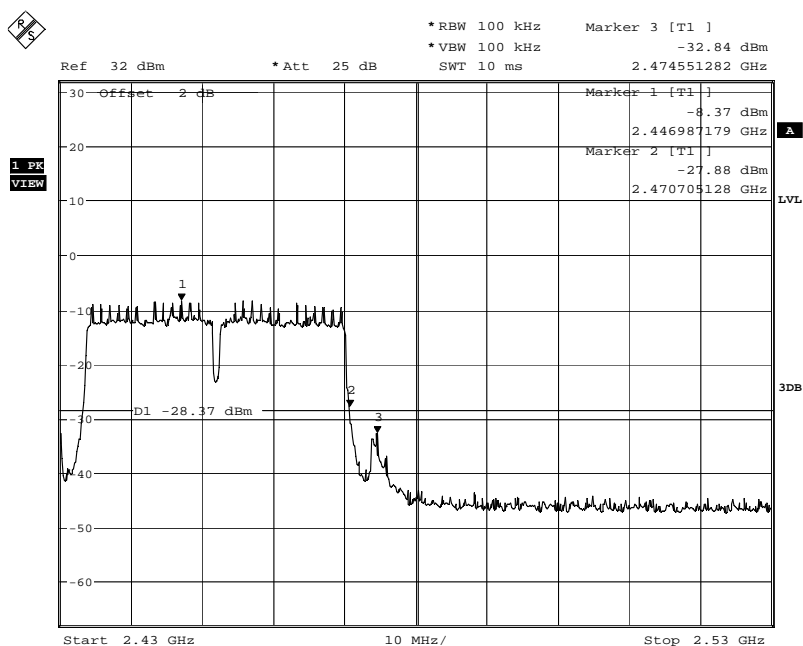


802.11n HT40:

Low channel



High channel



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## **11.0     *Antenna Requirement***

### **11.1     *Standard Applicable***

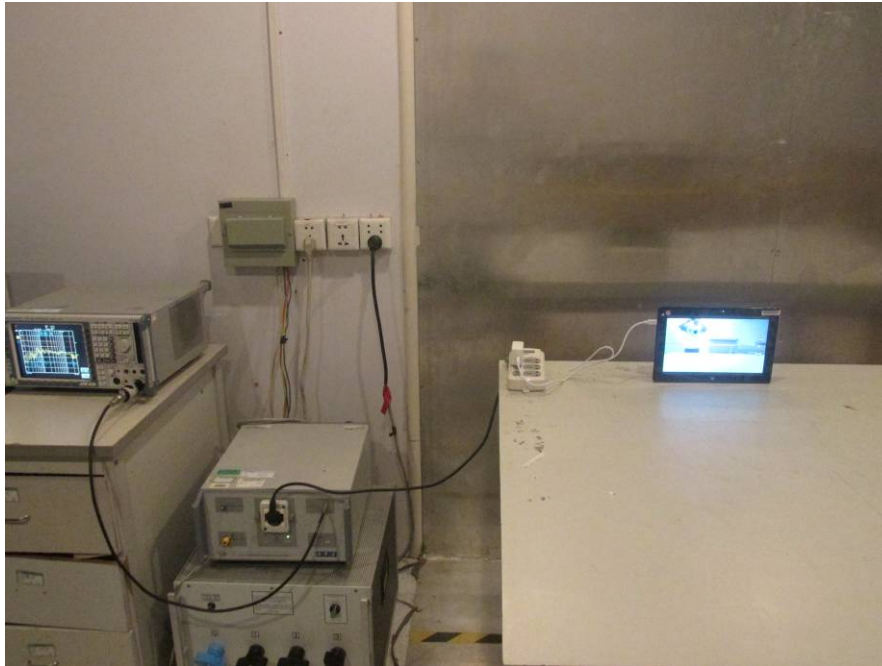
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain 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***

The EUT is designed to use two antennas, antenna 0 and 1. The Antennas are unique coupling antenna. The Antenna gain of antenna 0 is 4.3dbi and Antenna gain of antenna 1 is 2.0dbi. Please refer to the EUT internal photos.

## 12.0 Photo of testing

Conducted Emission Test Setup:

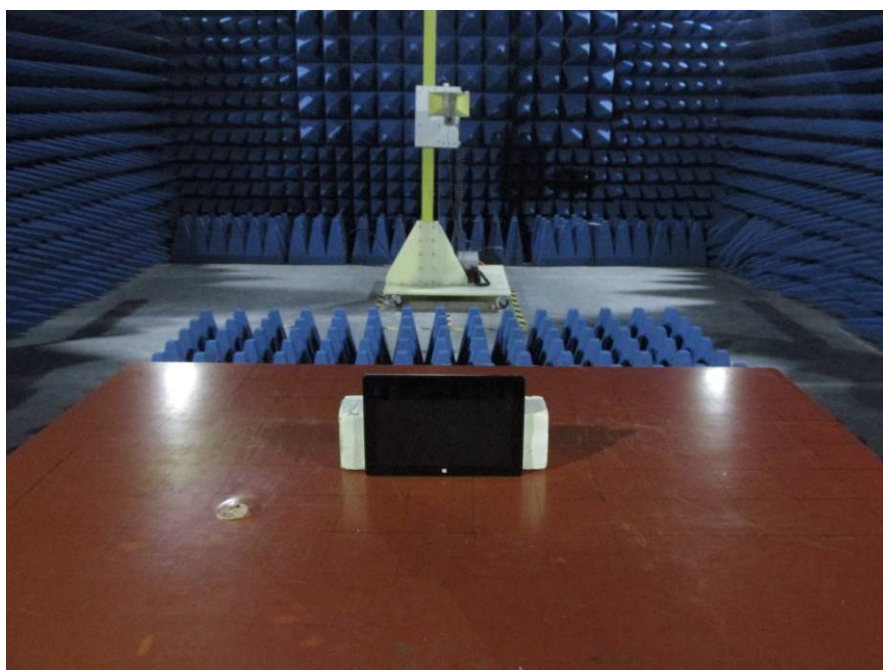
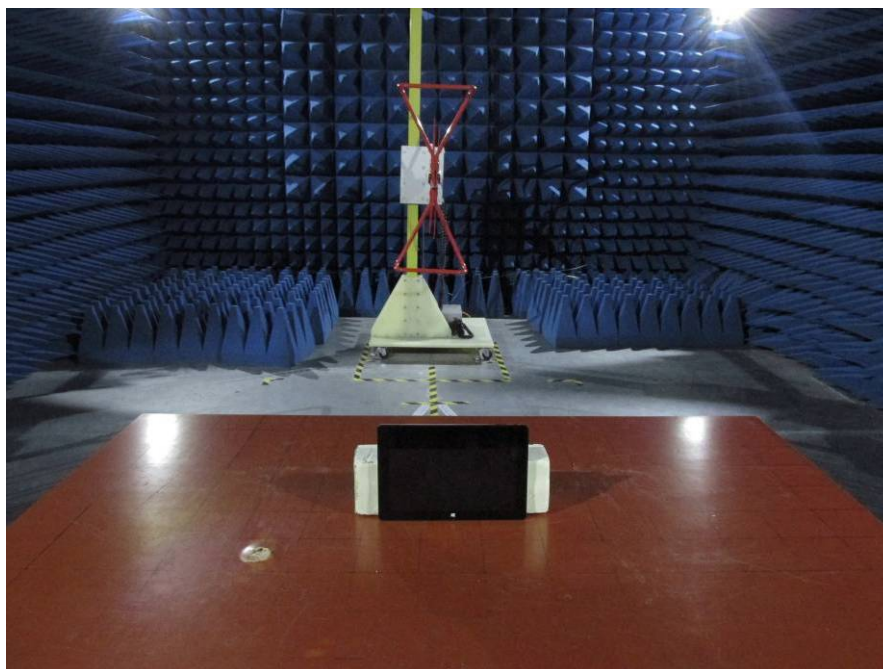


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Radiated Emission Test Setup:



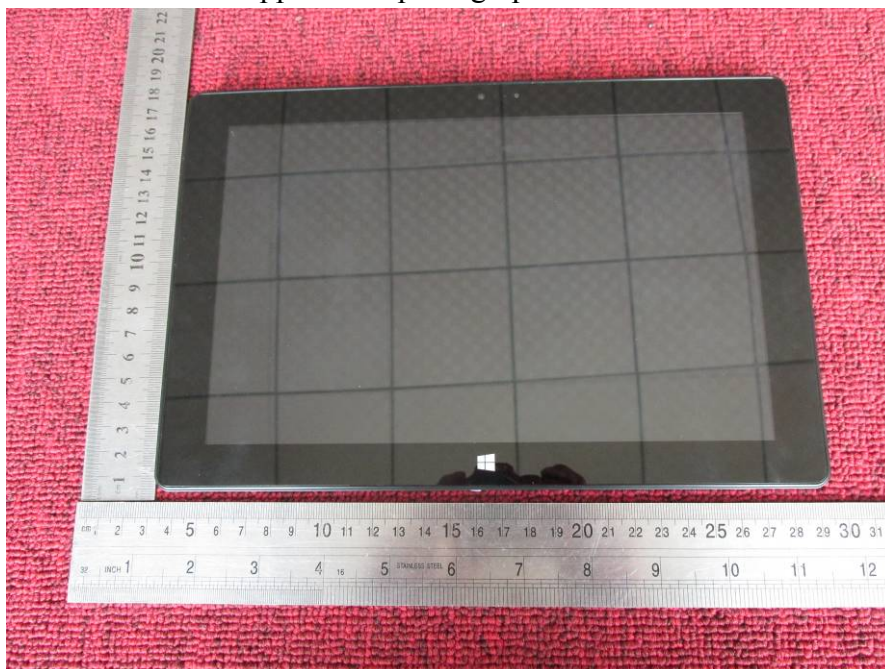
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Appearance photograph of EUT



Appearance photograph of EUT



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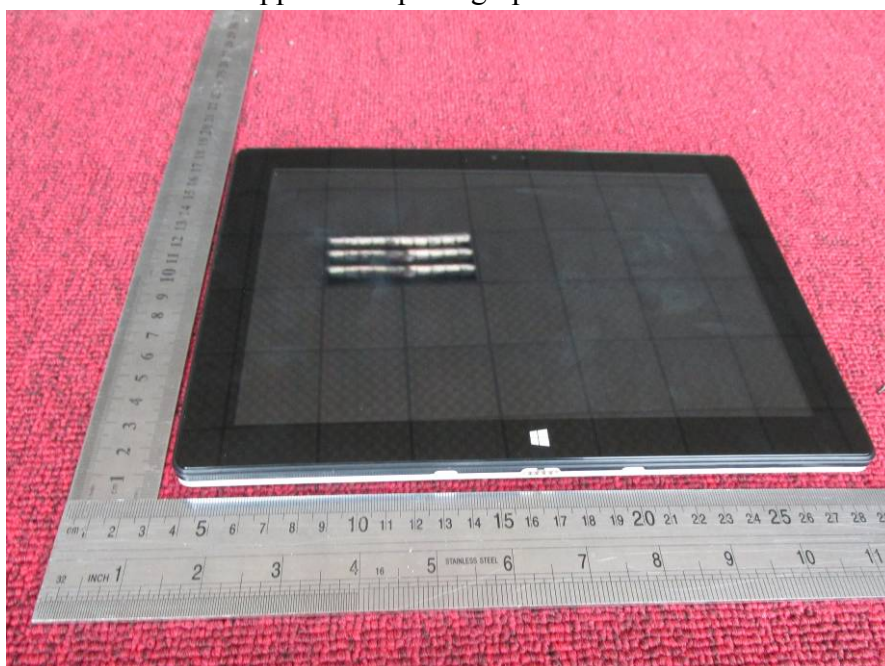
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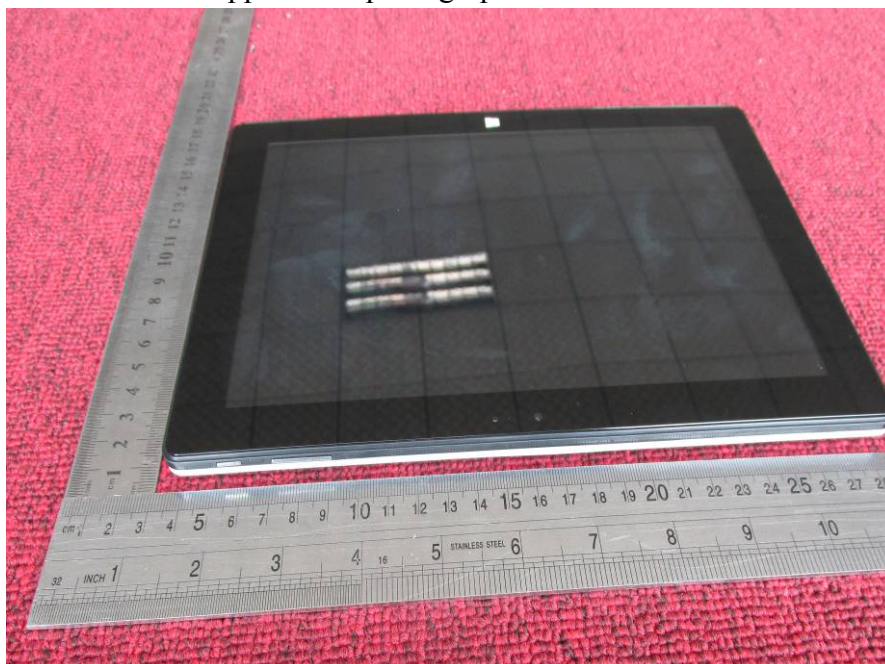
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Appearance photograph of EUT



Appearance photograph of EUT



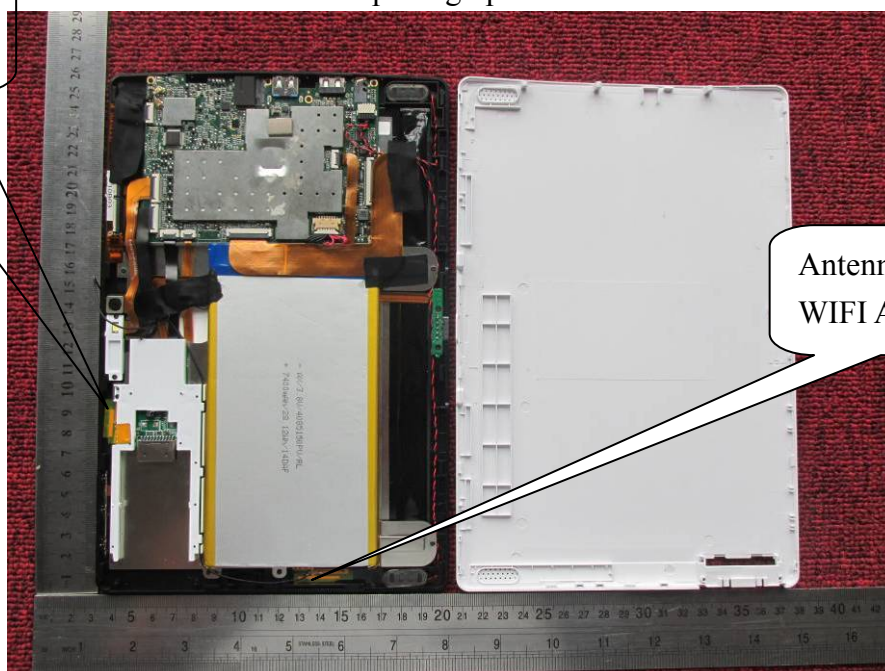
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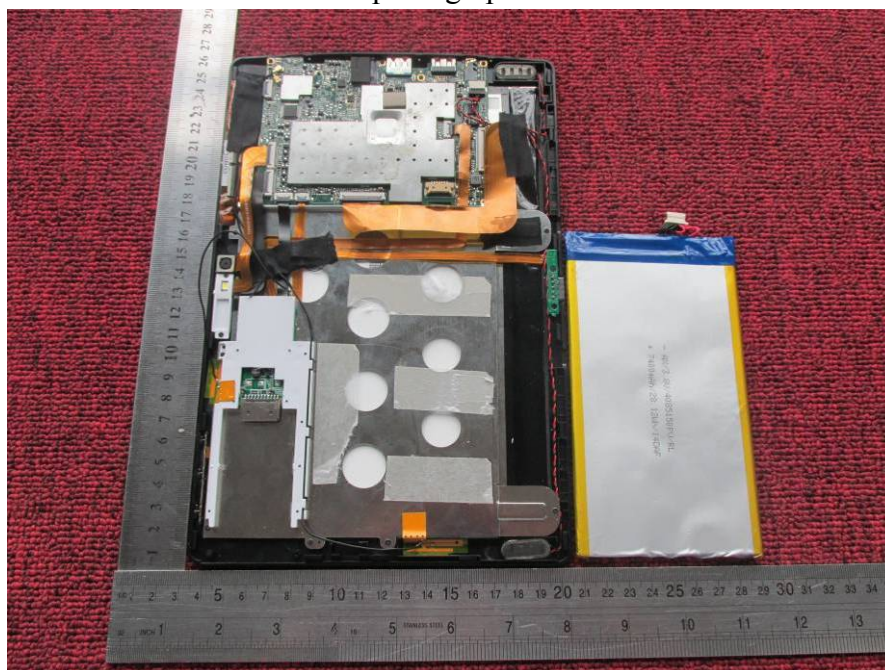
Antenna 0  
WIFI/BT Antenna

Internal photograph of EUT



Antenna 1  
WIFI Antenna

Internal photograph of EUT



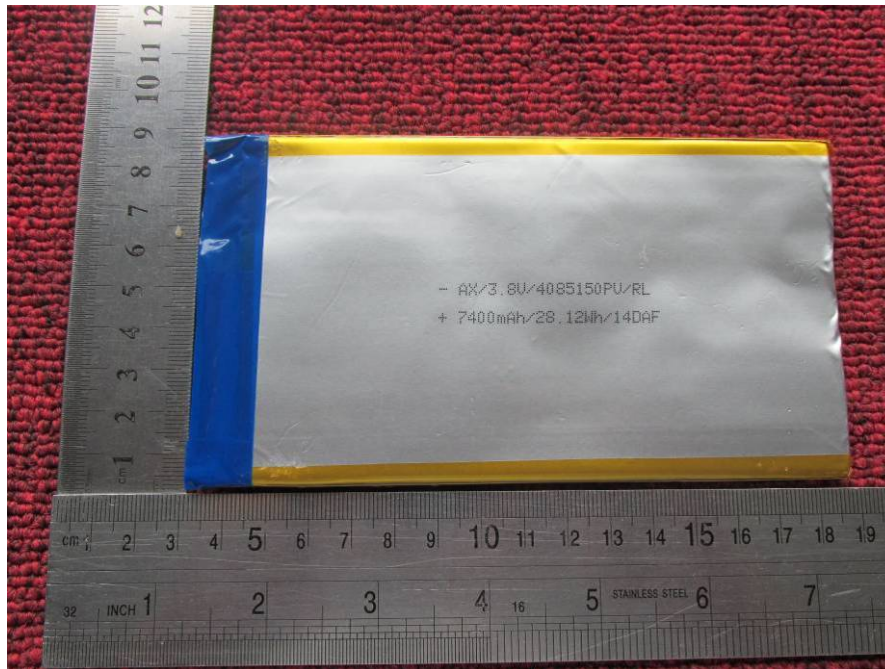
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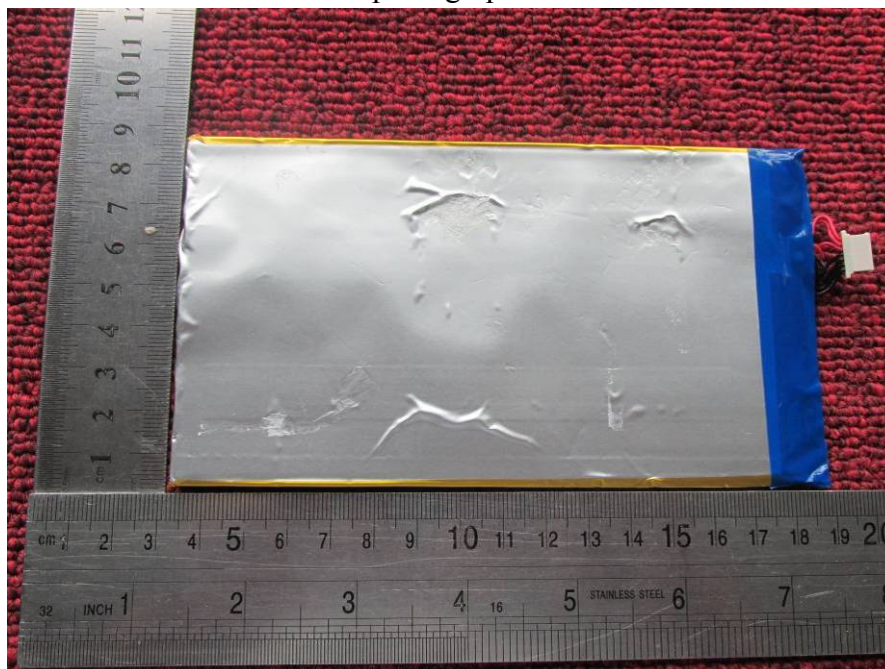
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Internal photograph of EUT



Internal photograph of EUT

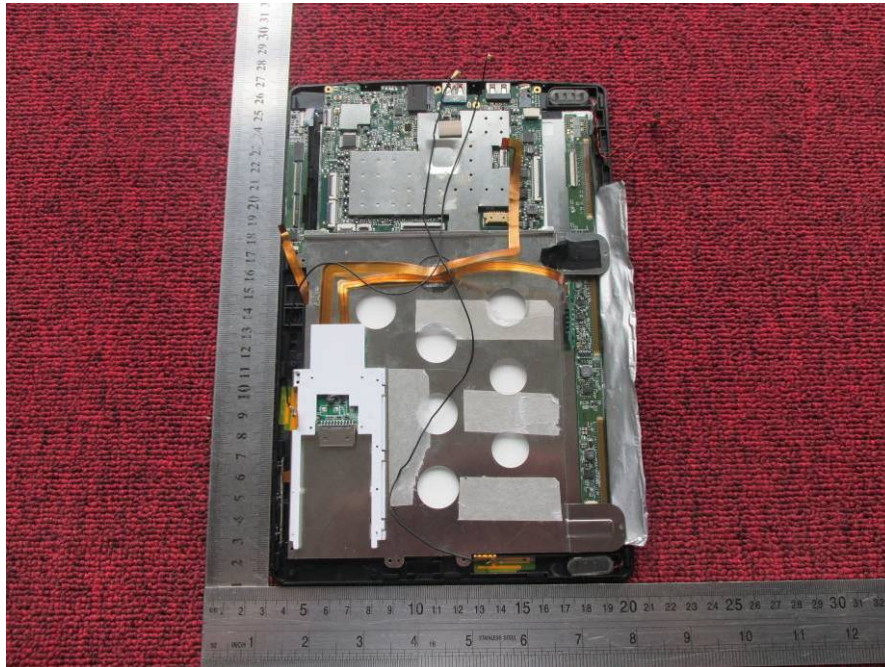


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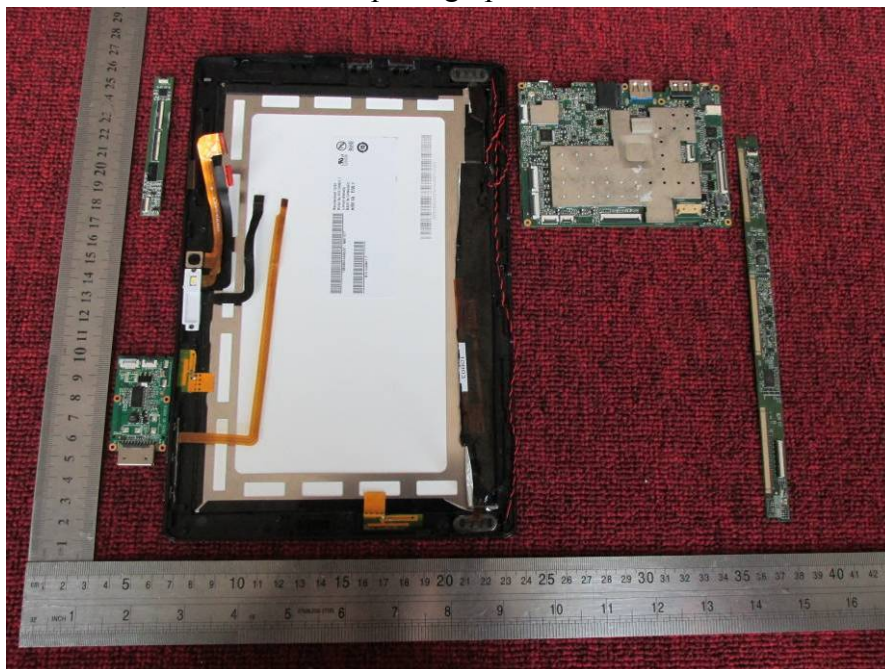
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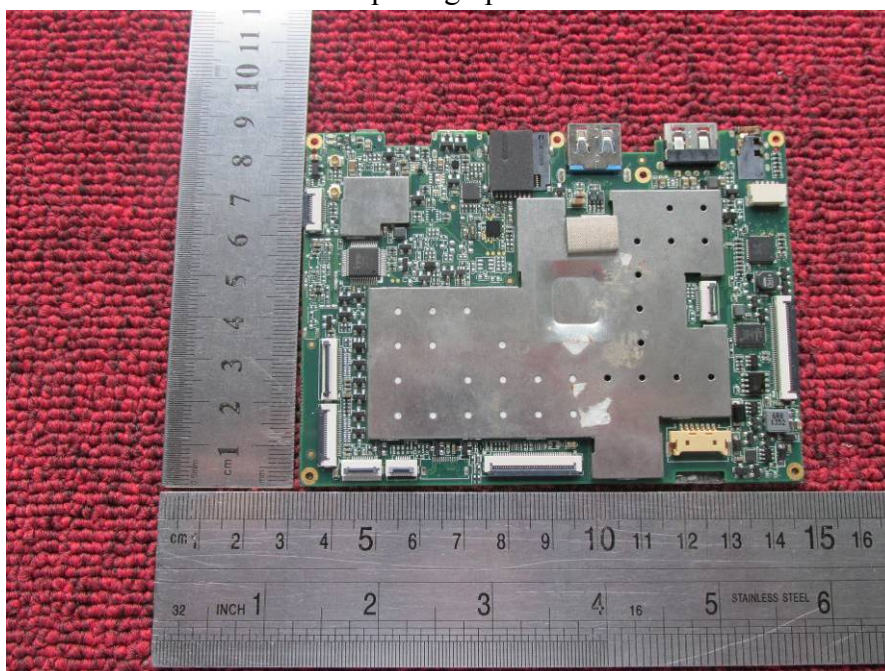
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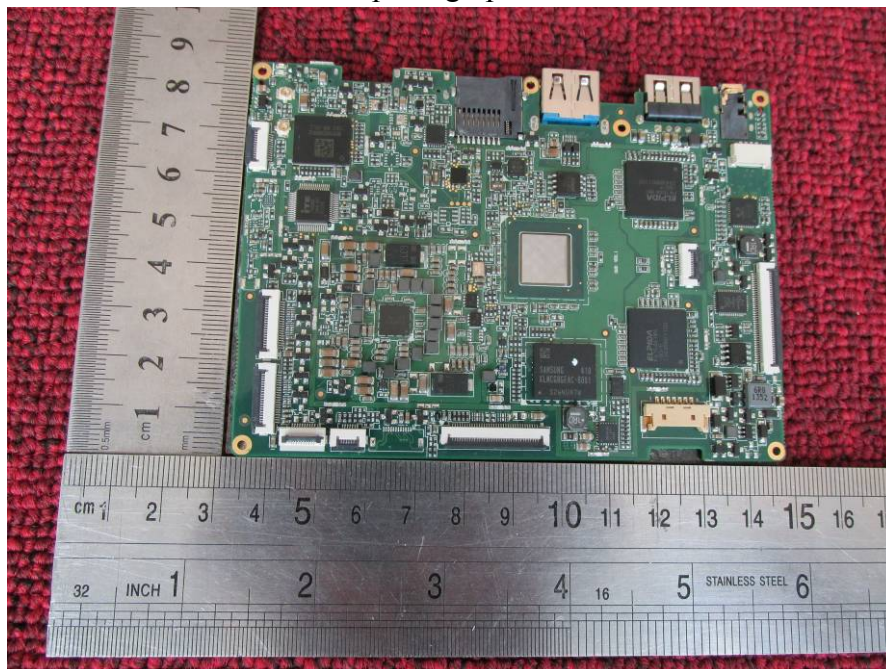


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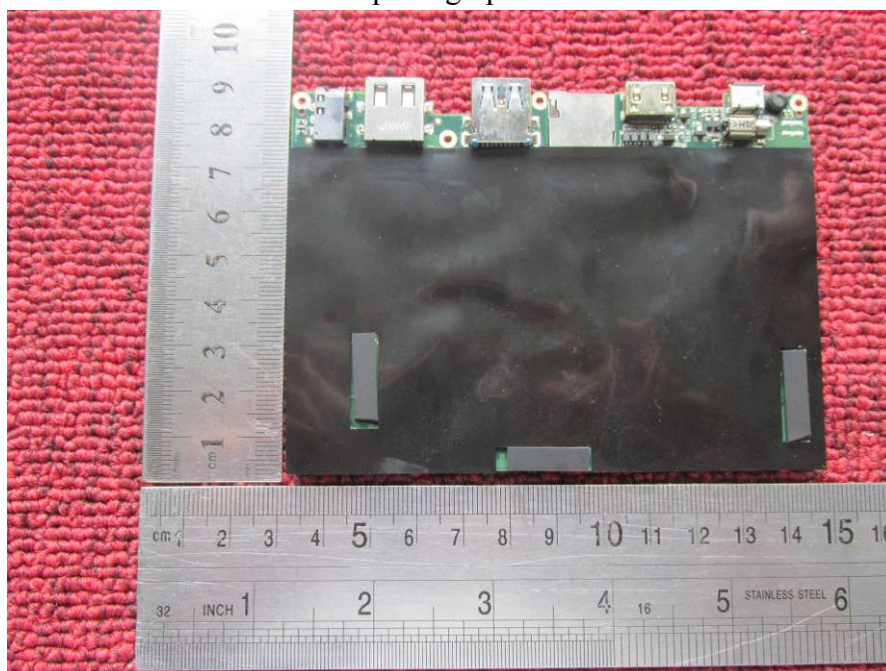
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Internal photograph of EUT



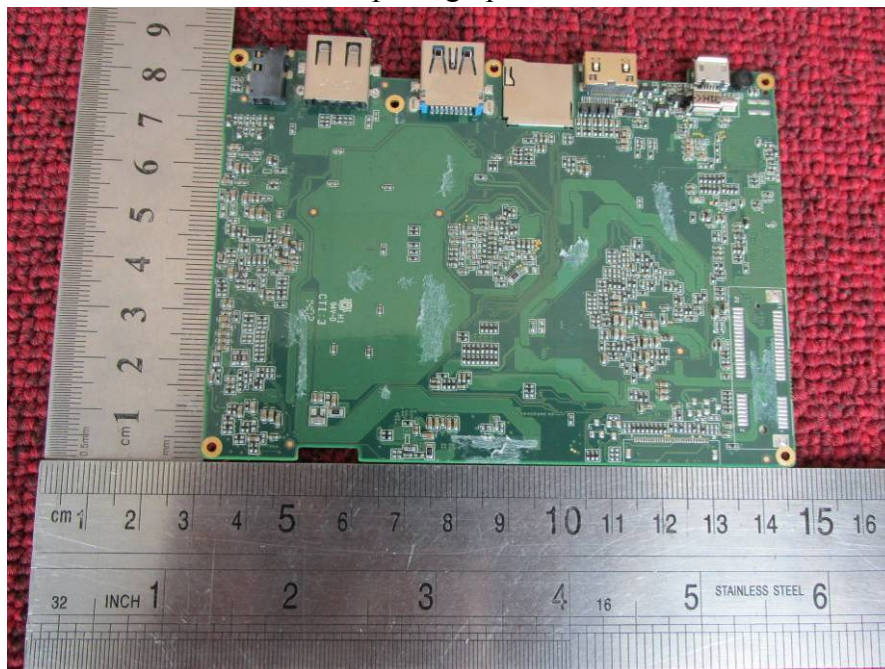
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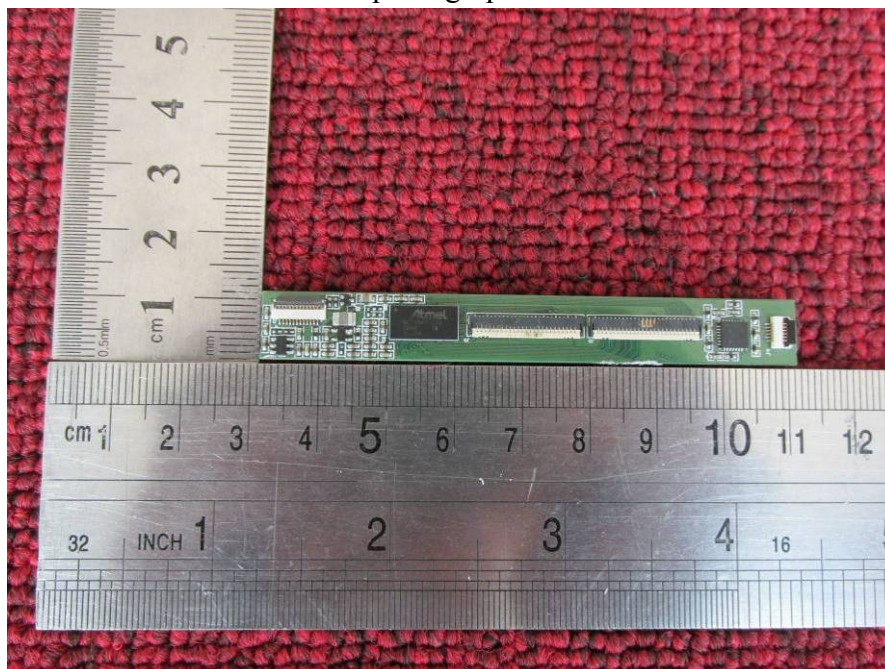
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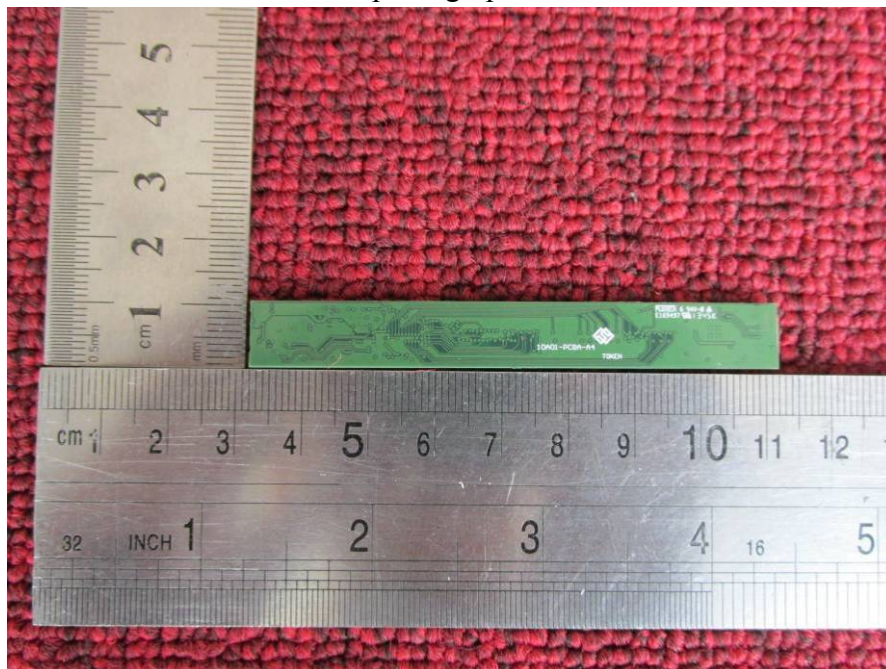
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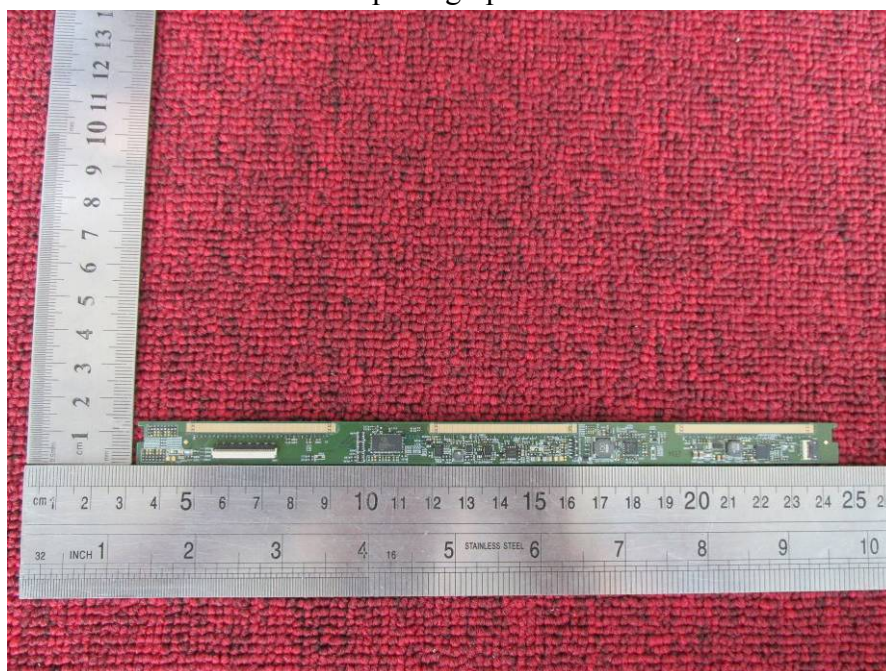
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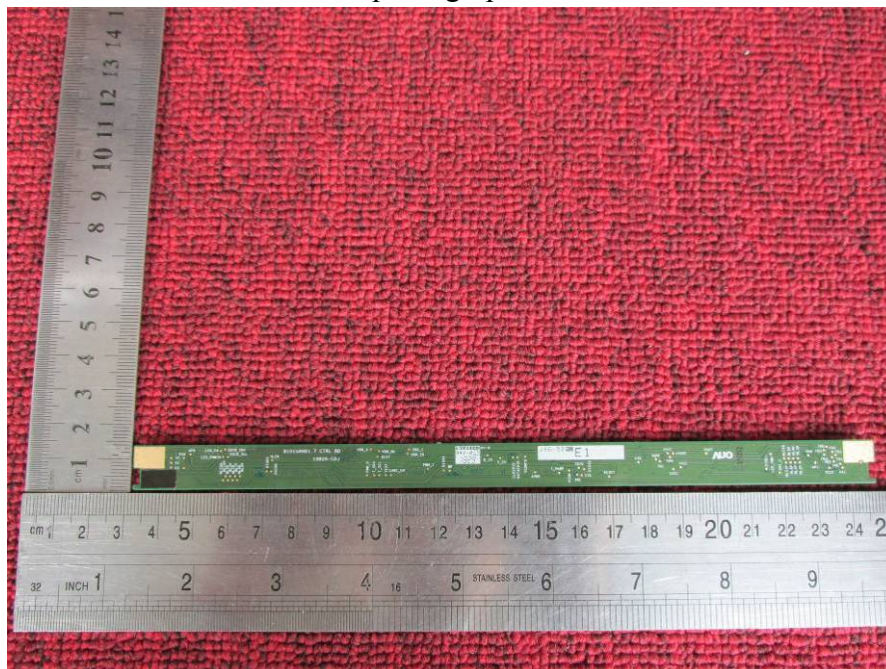
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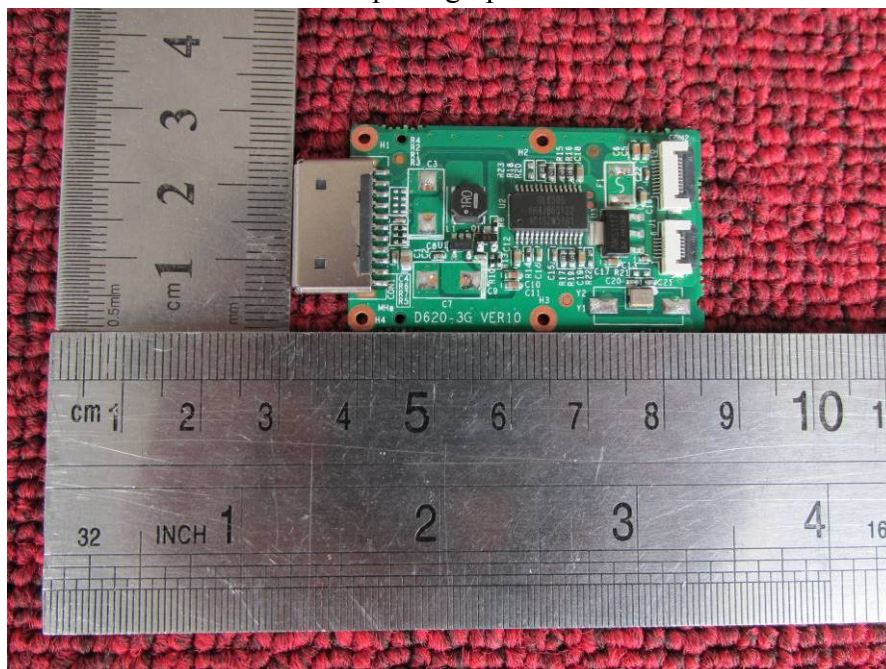
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Internal photograph of EUT



Internal photograph of EUT

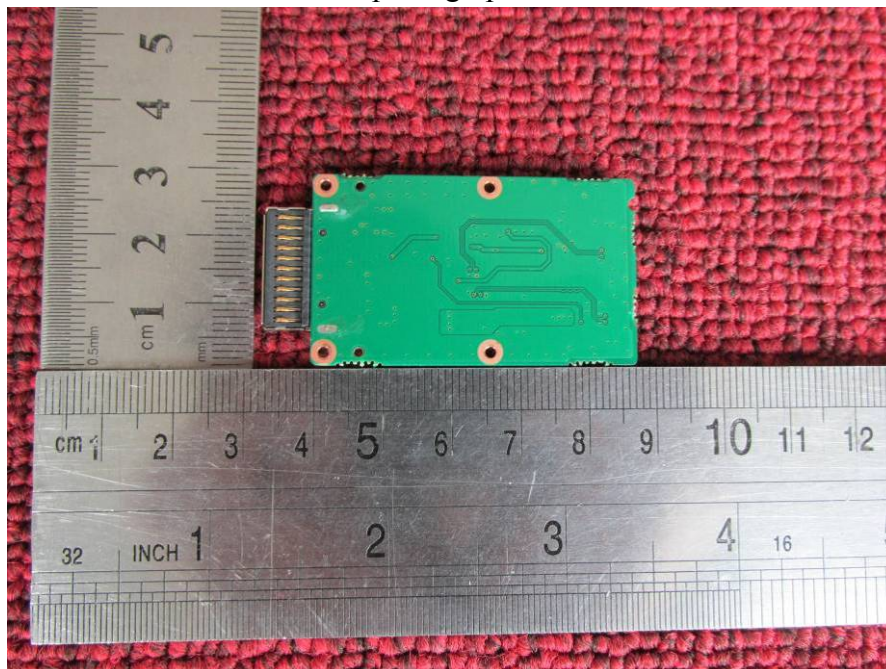


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