



Report No: File reference No:	FCC 1706170-01 2017-07-10
Applicant:	Shenzhen Jingwah Information Technology Co., Ltd.
Product:	Tablet PC
Model No:	ST7150, P7100, EM795, T7000, M710R
Trademark:	Polaroid, Emerson, Packard Bell, Smartab
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 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated:

July 10, 2017

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@timeway-lab.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.

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#### 1.0 **General Details**

1.0	General Deta	.5				
1.1	Test Lab Detai	ls				
	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 wi	th the Federal Communications Commission – United Sates				
	Registration N	umber: 899988				
	For 3m & 10 r	n OATS				
	Site Listed wit	h Industry Canada of Ottawa, Canada				
	Registration N	umber: IC: 5205A-02				
	For 3m & 10 r	n OATS				
1.2	Applicant Deta	ails				
	Applicant:	Shenzhen Jingwah Information Technology Co., Ltd.				
	Address:	4F, Bldg, 4, Jing Hua Square, Jinghua Street, Shennan Road Centre, Shenzhen, Guangdong,				
		China				
	Telephone:					
	Fax:					
1.3	Description of	EUT				
	Product:	Tablet PC				
	Manufacturer:	Shenzhen Jingwah Information Technology Co., Ltd.				
	Address:	4F, Bldg, 4, Jing Hua Square, Jinghua Street, Shennan Road Centre,				
		Shenzhen, Guangdong, China				
	Brand Name:	Polaroid, Emerson, Packard Bell, Smartab				
	Model Numbe					
		del Number: P7100, EM795, T7000, M710R				
	Type of Modu					
		IEEE 802.11g/n (HT20/HT40) : OFDM(64QAM, 16QAM, QPSK, BPSK)				
	Frequency ran					
	Channel Spaci					
	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 : msc0-msc7				
	Frequency Sel	-				
	Channel Numl					
	Antenna:	Integral Antenna and the maximum Gain of this antenna is 0dBi;				
	Power Adapter					
		Input: 100-240V, 50/60Hz, 0.15A; Output: 5V, 1000mA				

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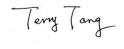


#### Remark: 1. There are alternative manufacturers for USB cable and EMMC.

Name	Manufacturer	Model			
USB Cable	Shenzhen Xinhuai Ronghui Technology Co,Ltd.				
	DongGuan MinTai Electronic Co.,LTD				
	·				
EMMC	Samsung	KLMAG2GE4A			
FORESEE NCEMBSF9-16					
Note: During test, each configure are considered and tested. Only worst case are recorded in the test					
report					

2. There are two different layout for G-sensor  $I^2C_7$  OTG test, Volume adjustment and Amplifier enable. But the part placement is the same. Please see internal photos for the detail. For the different layout, We did relative tests and only worse cased were recorded in the test report

- 1.4 Submitted Sample: 2 Samples
- 1.5 Test Duration 2017-06-19 to 2017-07-08
- 1.6 Test Uncertainty Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB
- 1.7 Test Engineer



The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2016-08-22	2017-08-21
TWO	R&S	EZH3-Z5	100294	2016-08-22	2017 00 21
Line-V-NETW		EZH3-Z3	100294	2010-08-22	2017-08-21
TWO	R&S	EZH3-Z5	100253	2016-08-22	2017-08-21
Line-V-NETW		EZ113-23	100233	2010-08-22	2017-08-21
	R&S				
Ultra Broadband		HL562	100157	2016-08-23	2017-08-22
ANT					
	R&S	ESDV	100008	2016-08-22	2017-08-21
ESDV Test Receiver					
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2016-08-22	2017-08-21
System Controller	СТ	SC100	-		
Printer	EPSON	PHOTO EX3	CFNH234850		
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-
Loop Antenna	EMCO	6502	00042960	2016-08-23	2017-08-22
ESPI Test Receiver	R&S	ESI26	838786/013	2016-08-22	2017-08-21
3m OATS			N/A	2016-08-24	2017-08-23
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2016-08-24	2017-08-23
Horn Antenna	R&S	BBHA 9120D	9120D-631	2016-08-24	2017-08-23
Power meter	Anritsu	ML2487A	6K00003613	2016-08-22	2017-08-21
Power sensor	Anritsu	MA2491A	32263	2016-08-22	2017-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2016-08-23	2017-08-21
LISN	AFJ	LS16C	10010947251	2016-08-22	2017-08-21
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2016-08-23	2017-08-22
9*6*6 Anechoic			N/A	2016-08-24	2017-08-23
EMI Test Receiver	RS	ESCS30	100139	2016-08-22	2017-08-21
RF Cable	SCHWARZBEC			2016-08-23	2017-08-22
	K				
Pre-Amplifier	HP	8447D	2727A05017	2016-08-05	2017-08-04
Pre-Amplifier	EM	EM30265		2016-08-05	2017-08-04

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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: 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: msc0 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: msc0 data rate (worst case) were chosen for full testing

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#### 3.0 **Technical Details**

#### 3.1 Summary of test results

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

#### 3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

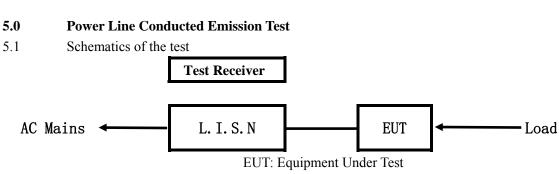
#### **EUT Modification** 4.0

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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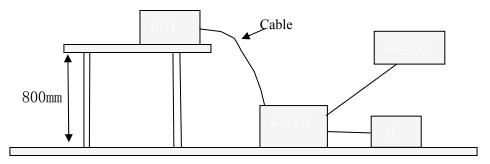


5.2 Test Method and test Procedure The EUT was tested according to

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10 -2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. 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 Jingwah Information	ST7150, P7100, EM795,	RBD-M710R2
	Technology Co., Ltd.	T7000, M710R	

#### 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 C63.10-2013.

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

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		1.1930	24.70	10.90	35.60	56.00	-20.40	QP	
2		1.1930	5.70	10.90	16.60	46.00	-29.40	AVG	
3		2.4650	26.20	10.87	37.07	56.00	-18.93	QP	
4		2.4650	6.10	10.87	16.97	46.00	-29.03	AVG	
5		2.6947	25.50	10.87	36.37	56.00	-19.63	QP	
6		2.6947	9.20	10.87	20.07	46.00	-25.93	AVG	
7	*	23.0376	39.40	11.28	50.68	60.00	-9.32	QP	
8		23.0376	18.50	11.28	29.78	50.00	-20.22	AVG	

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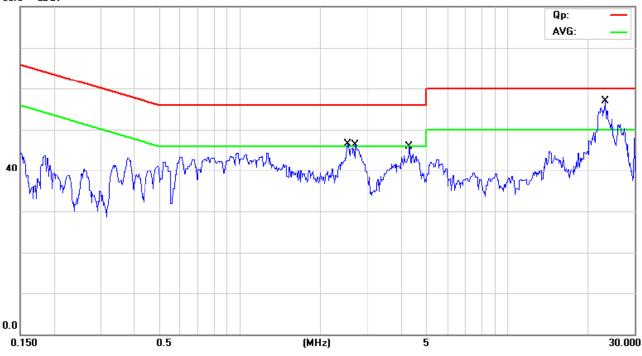
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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz) EUT Operating Environment Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa EUT set Condition: Keep WIFI Transmitting Equipment Level: Class B Results: Pass Please refer to following diagram for individual

#### 80.0 dBuV



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	2.5218	27.60	10.87	38.47	56.00	-17.53	QP	
2	2.5218	15.60	10.87	26.47	46.00	-19.53	AVG	
3	2.6910	29.40	10.87	40.27	56.00	-15.73	QP	
4	2.6910	16.70	10.87	27.57	46.00	-18.43	AVG	
5	4.2826	26.10	10.83	36.93	56.00	-19.07	QP	
6	4.2826	10.80	10.83	21.63	46.00	-24.37	AVG	
7 *	23.2083	35.20	11.29	46.49	60.00	-13.51	QP	
8	23.2083	17.20	11.29	28.49	50.00	-21.51	AVG	

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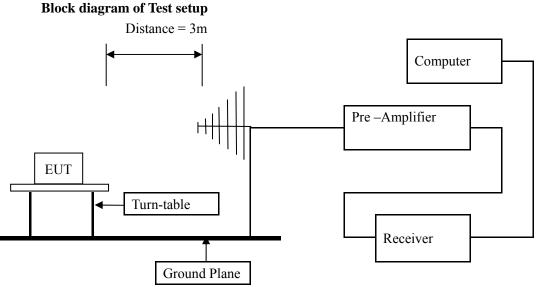
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#### 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 8999988
- (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. F For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value 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.



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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### 6.4 Radiated Emission Limit

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

### Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109 and RSS-210

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ 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 handhold 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.

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## **Test result** General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep Transmitting** 

**Results:** 

Pass

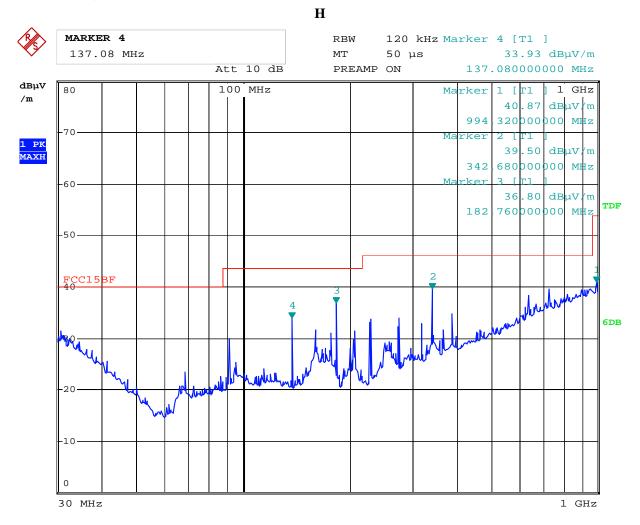
Frequency (MHz)	Level@3m (dB µ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
137.080	33.93	Н	43.50
994.320	40.87	Н	54.00
342.680	39.50	Н	46.00
182.760	36.80	Н	43.50
251.320	30.49	V	46.00
939.920	40.13	V	46.00
182.760	31.47	V	43.50
137.080	29.51	V	43.50

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Test Figure:



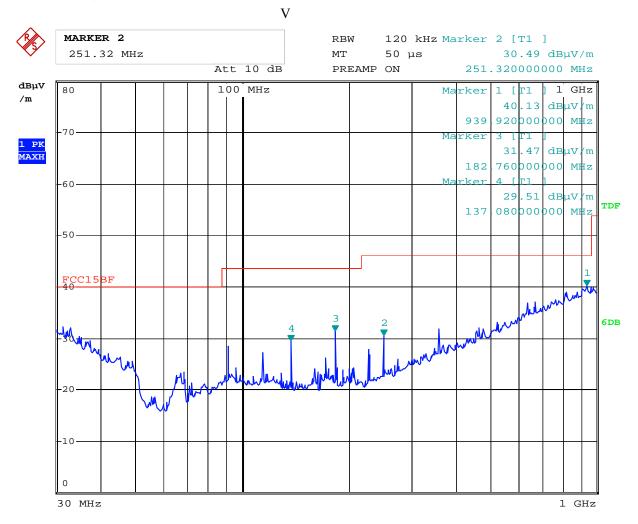
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Test Figure:



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Frequency (MHz)	Level@3m (dB µ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4824.00	52.28 (PK)	Н	74(Peak)/ 54(AV)
4824.00	52.32 (PK)	V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16884		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

#### **Operation Mode: Transmitting under CH01 for 11g at 6Mbps**

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11g mode 6Mbps

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adopt any other remedies which may be appropriate.



1	9	8 I	
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4874.00	50.70 (PK)	V	74(Peak)/ 54(AV)
4874.00	50.65 (PK)	Н	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)

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

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11g mode 6Mbps

#### **Operation Mode: Transmitting under CH11 for 11g at 6Mbps**

	• F · · · · · · · · · · · · · · · · · ·							
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)					
4924	51.58 (PK)	Н	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 802.11g mode at 6Mbps

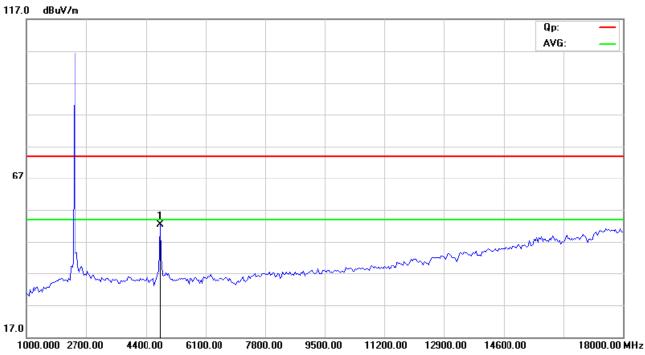
The report refers only to the sample tested and does not apply to the bulk.

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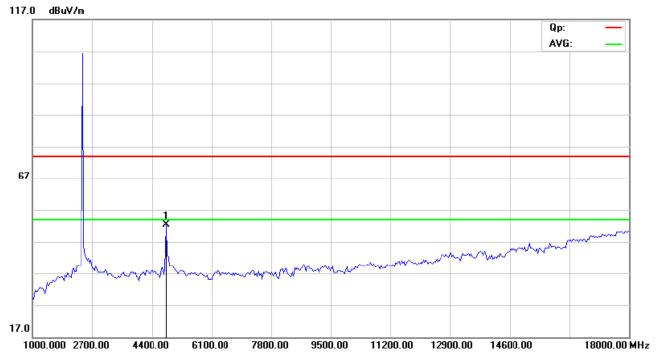


Please refer to the following test plots for details:

## CH01 for 11g at 6Mbps: Horizontal



## CH01 for 11g at 6Mbps: Vertical

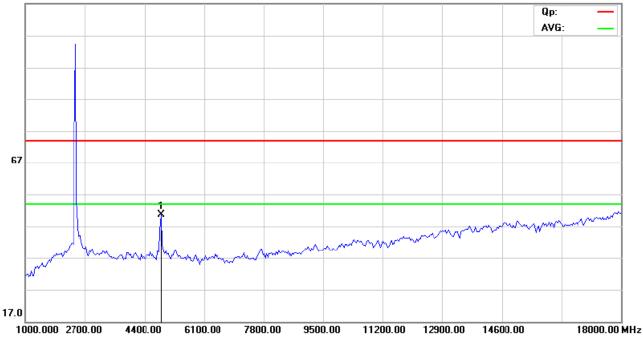


The report refers only to the sample tested and does not apply to the bulk.

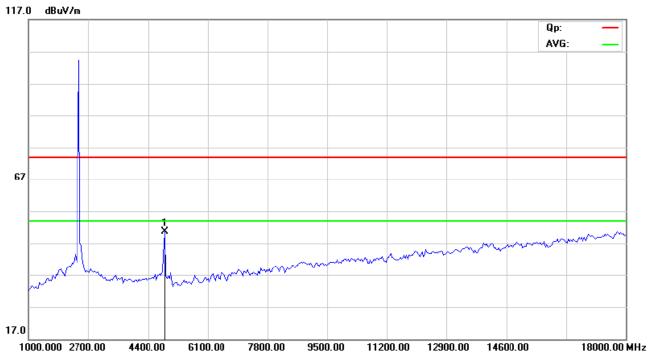
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CH06 for 11g at 6Mbps: Vertical 117.0 dBuV/m



#### CH06 for 11g at 6Mbps: Horizontal



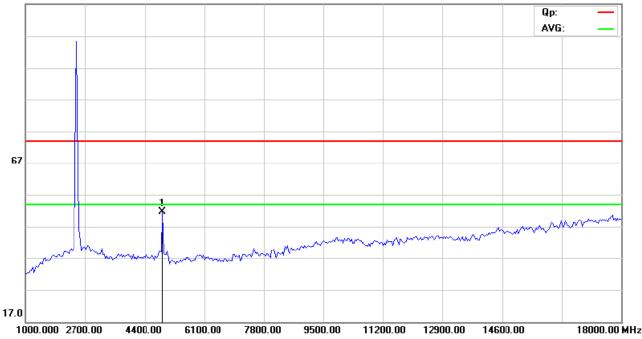
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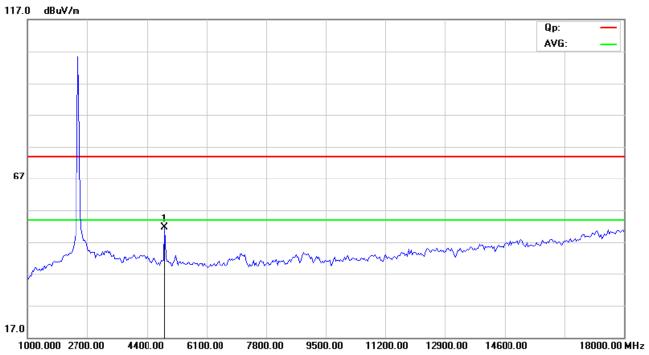
discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



CH11 for 11g at 6Mbps: Vertical 117.0 dBuV/m







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

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Frequency (MHz)	Level@3m (dB µ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4824.00	51.82 (PK)	Н	74(Peak)/ 54(AV)
4824.00	51.59 (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)

#### **Operation Mode: Transmitting under CH01 for 11b at 1Mbps**

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11b mode 1Mbps

#### Operation Mode: Transmitting under CH06 for 11b at 1Mbps

	8	1	
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4874.00	52.51 (PK)	Н	74(Peak)/ 54(AV)
4874.00	52.58 (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 1Mbps

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- <u>-</u>	operation from the most of the at the post						
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)				
4924	50.29 (PK)	Н	74(Peak)/ 54(AV)				
4924	50.63 (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)				

#### **Operation Mode: Transmitting under CH11 for 11b at 1Mbps**

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11b mode at 1Mbps

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

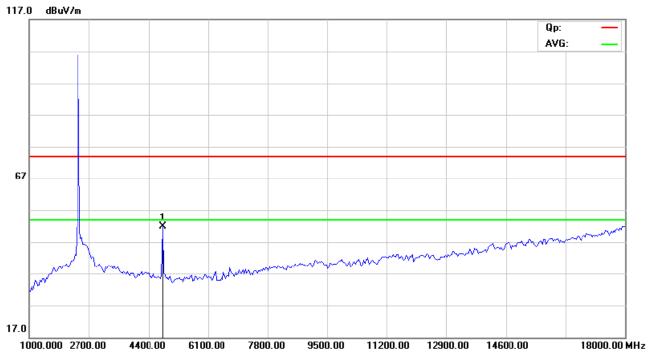
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adopt any other remedies which may be appropriate.

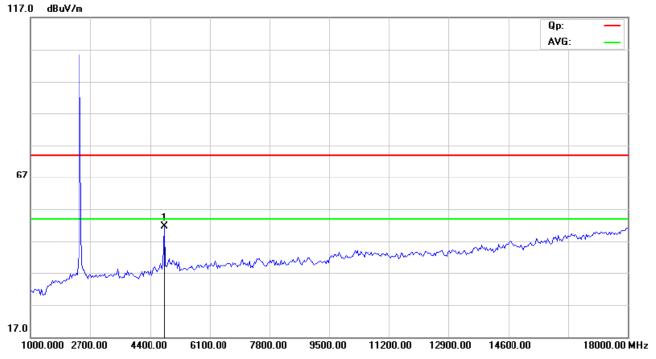


Please refer to the following test plots for details:

## CH01 for 11b at 1Mbps: Horizontal



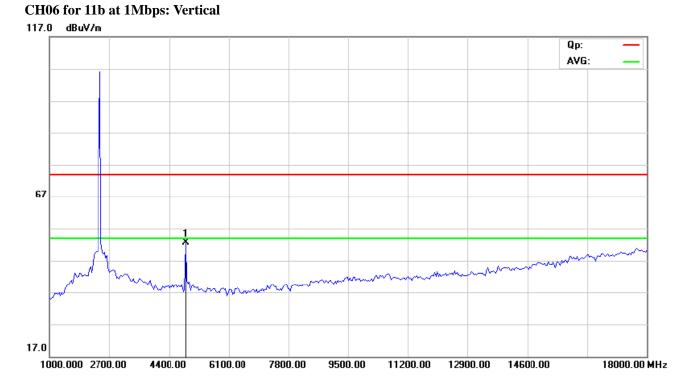
CH01 for 11b at 1Mbps: Vertical



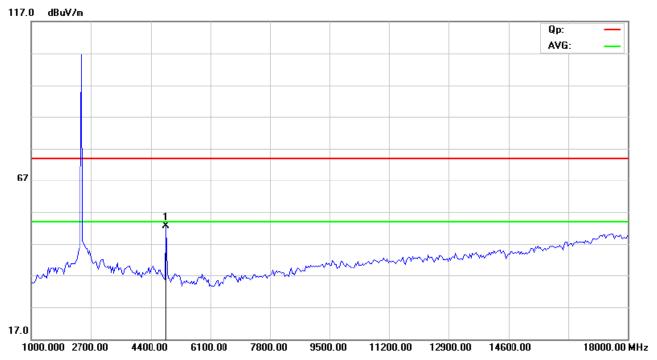
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#### CH06 for 11b at 1Mbps: Horizontal

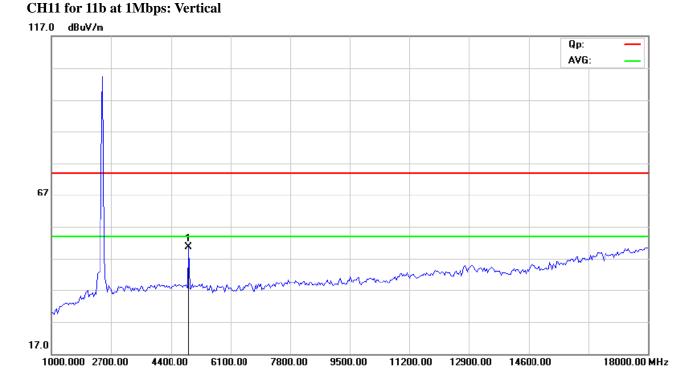


The report refers only to the sample tested and does not apply to the bulk.

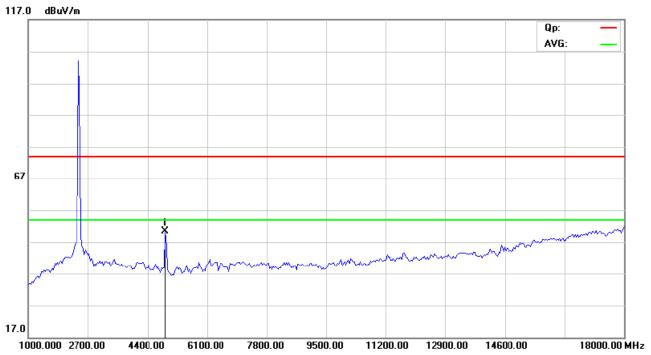
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#### CH11 for 11b at 1Mbps: Horizontal



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

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	8		
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4824.00	50.35 (PK)	Н	74(Peak)/ 54(AV)
4824.00	50.59 (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)

#### Operation Mode: Transmitting under CH01 for 11n HT20 at msc0

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 msc0

#### Operation Mode: Transmitting under CH06 for 11n HT20 at msc0

1	8		
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4874.00	51.54 (PK)	Н	74(Peak)/ 54(AV)
4874.00	51.69 (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 msc0

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operation froude. Transmitting under offit for the first of the field				
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)	
4924	52.69 (PK)	Н	74(Peak)/ 54(AV)	
4924	52.14 (PK)	V	74(Peak)/ 54(AV)	
7368		H/V	74(Peak)/ 54(AV)	
9848		H/V	74(Peak)/ 54(AV)	
12310		H/V	74(Peak)/ 54(AV)	
14772		H/V	74(Peak)/ 54(AV)	
17234		H/V	74(Peak)/ 54(AV)	
19696		H/V	74(Peak)/ 54(AV)	
22158		H/V	74(Peak)/ 54(AV)	
24620		H/V	74(Peak)/ 54(AV)	

#### Operation Mode: Transmitting under CH11 for 11n HT20 at msc0

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 msc0

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

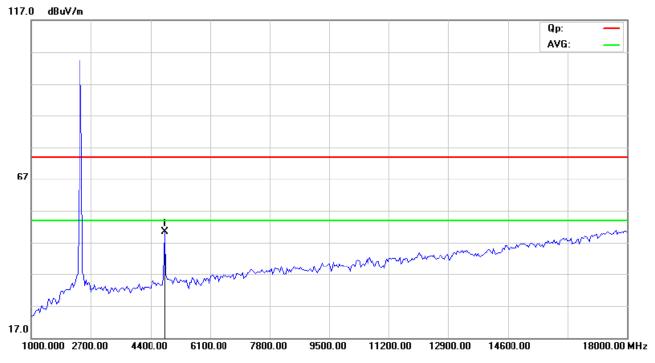
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adopt any other remedies which may be appropriate.

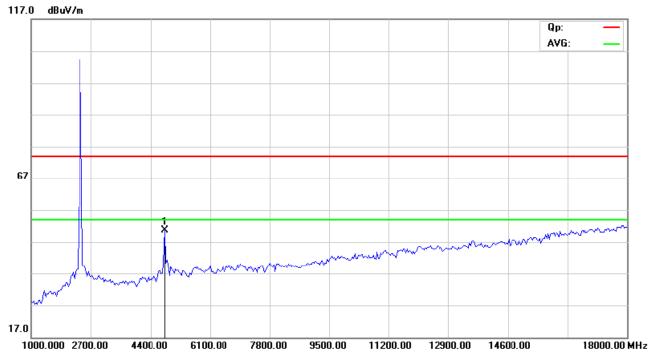


Please refer to the following test plots for details:

## CH01 for 11n HT20 at msc0: Horizontal



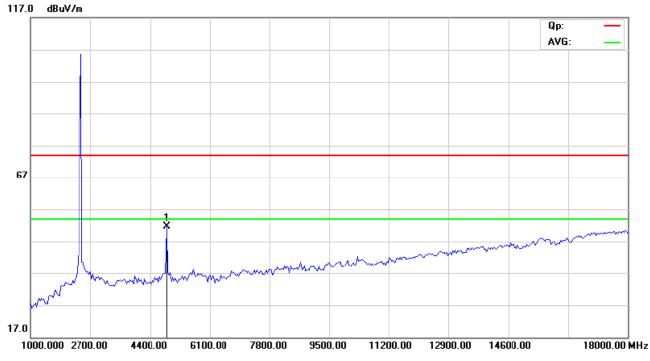
## CH01 for 11n HT20 at msc0: Vertical



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

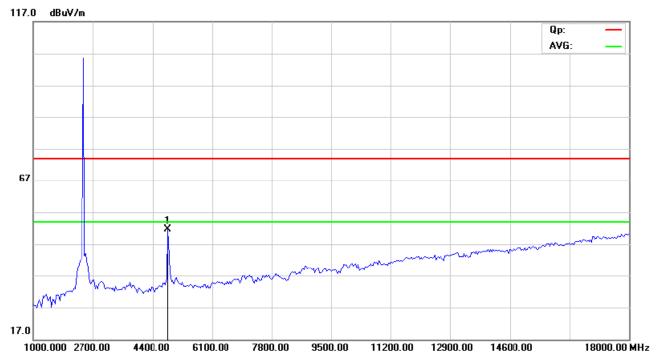
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## CH06 for 11n HT20 at msc0: Vertical

CH06 for 11n HT20 at msc0: Horizontal



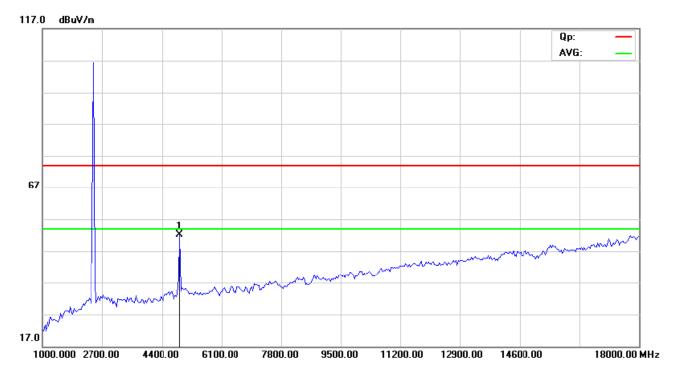
The report refers only to the sample tested and does not apply to the bulk.

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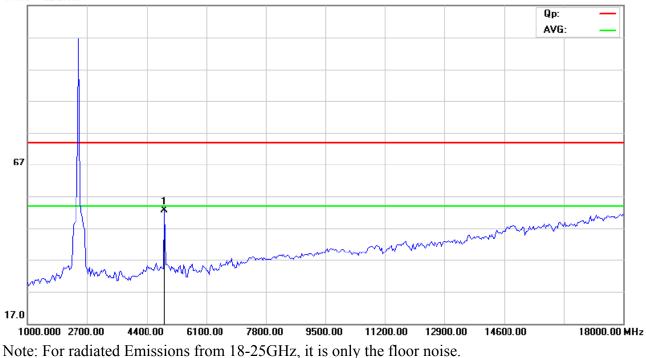


### CH11 for 11n HT20 at msc0: Vertical



CH11 for 11n HT20 at msc0: Horizontal

117.0 dBuV/m



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Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4844.00	50.51 (PK)	Н	74(Peak)/ 54(AV)
4844.00	50.27 (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)

#### Operation Mode: Transmitting under CH03 for 11n HT40 at msc0

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 msc0

#### Operation Mode: Transmitting under CH06 for 11n HT40 at msc0

8		
Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
50.66 (PK)	Н	74(Peak)/ 54(AV)
49.53 (PK)	V	74(Peak)/ 54(AV)
	H/V	74(Peak)/ 54(AV)
	Level@3m (dB µ V/m) 50.66 (PK) 49.53 (PK)      	Level@3m (dB μ V/m)       Antenna Polarity         50.66 (PK)       H         49.53 (PK)       V          H/V          H/V

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 msc0

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operation would main many under error for fin first at mised				
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)	
4904	49.82 (PK)	Н	74(Peak)/ 54(AV)	
4904	49.58 (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)	

#### **Operation Mode: Transmitting under CH09 for 11n HT40 at msc0**

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 msc0

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

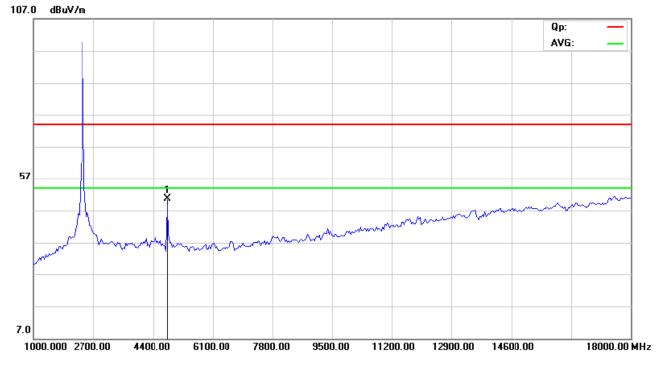
The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of accertation of the client enter into any discussion of correspondence with any third party concerning the contents of the report. 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.

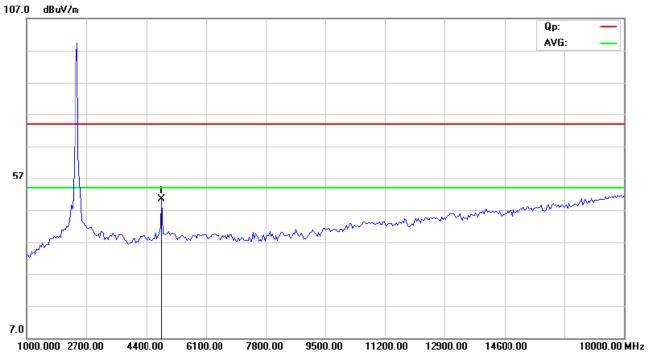


Please refer to the following test plots for details:

## CH01 for 11n HT40 at msc0: Horizontal



CH01 for 11n HT40 at msc0: Vertical

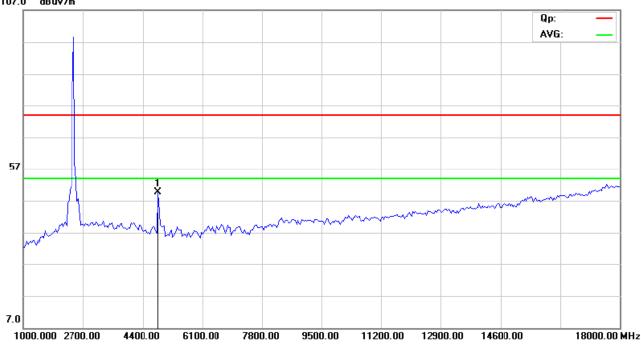


The report refers only to the sample tested and does not apply to the bulk.

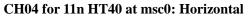
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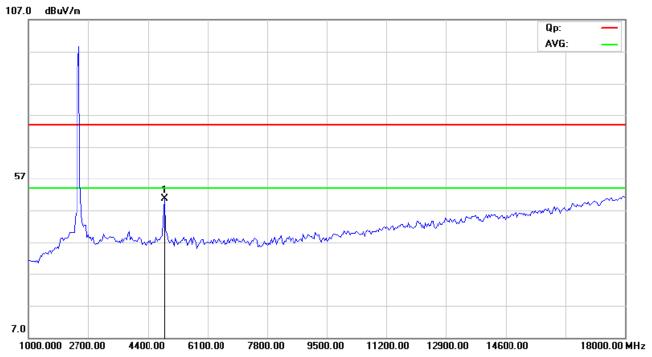
discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.





#### CH04 for 11n HT40 at msc0: Vertical 107.0 dBuV/m





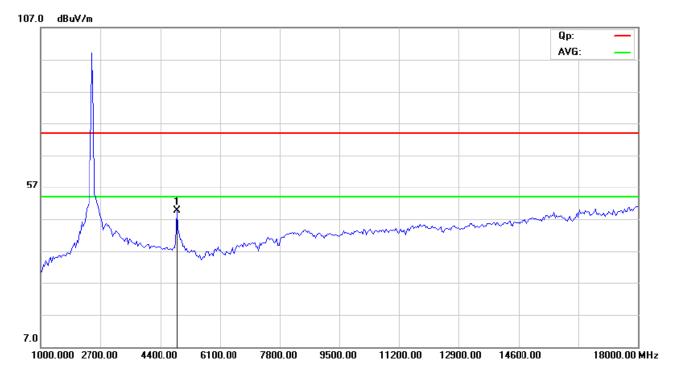
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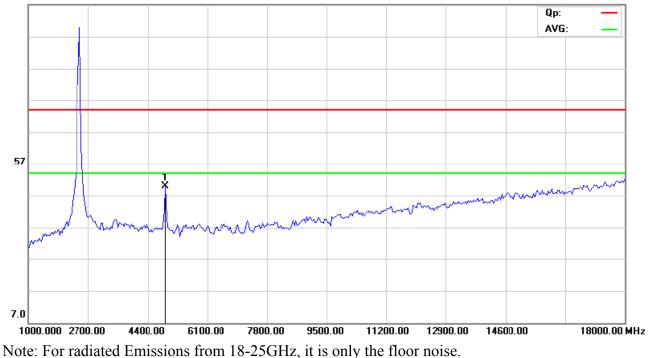


## CH07 for 11n HT40 at msc0: Vertical



CH07 for 11n HT40 at msc0: Horizontal

107.0 dBuV/m

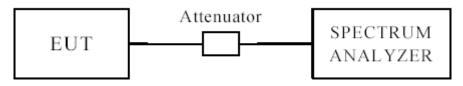


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7.0 6dB & 99%Bandwidth Measurement 7.1 Test Setup



## 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)  $\ge$  3 x 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

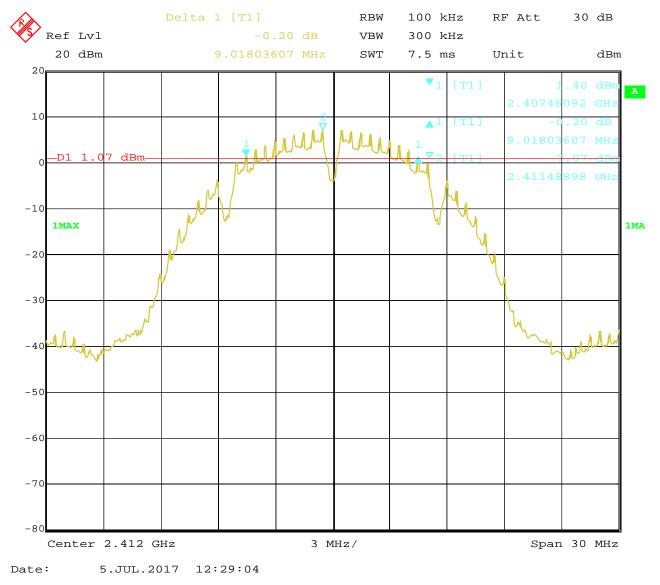
EUT		Tablet PC			Model		ST7150	
Mode		8	Input Voltage		DC3.7V			
Temperat	ure	24 deg. C,			Humidity	r	56%	% RH
Channel		Channel Frequency (MHz)		6 dB Bandwidth (MHz)		Minimum Limit (MHz)		Pass/ Fail
1		2412 1 9.		.02		0.5	Pass	
6		2437 1		9.	9.08		0.5	Pass
11		2462	1	9.	02		0.5	Pass
1		2412	11	9.08		08 0.5		Pass
6		2437	11	9.08			0.5	Pass
11		2462	11	8.36		36 0.5		Pass

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



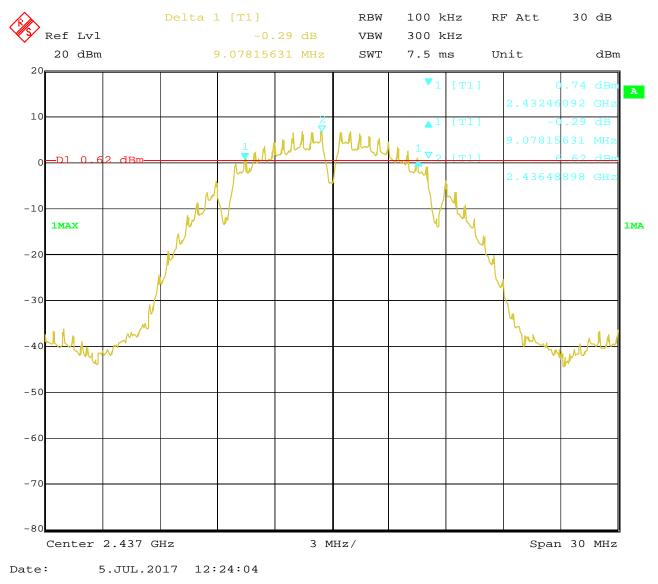
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## 2. 802.11b at 1Mbps of CH06



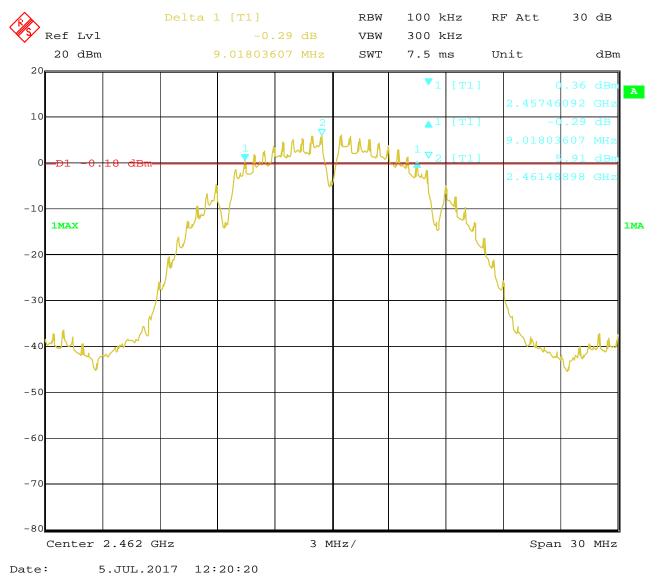
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## 3. 802.11b at 1Mbps of CH11



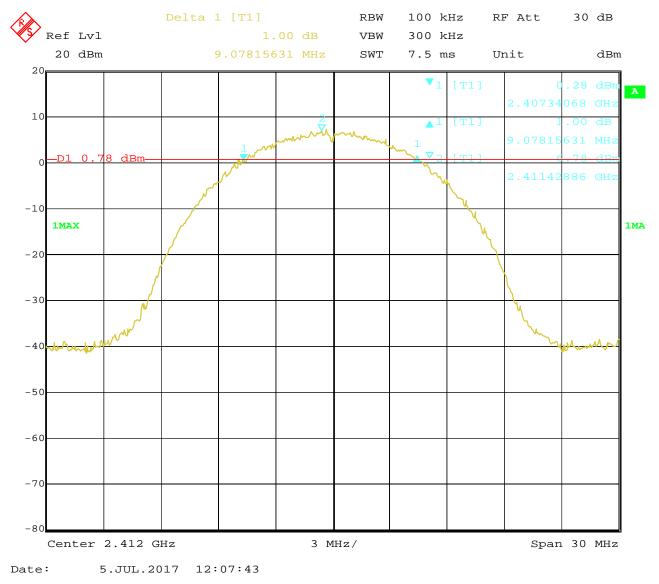
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## 4. 802.11b at 11Mbps of CH01



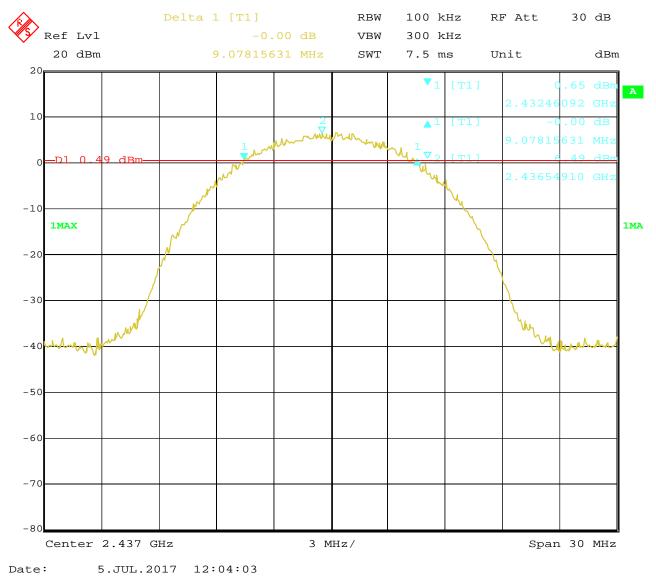
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## 5. 802.11b at 11Mbps of CH06



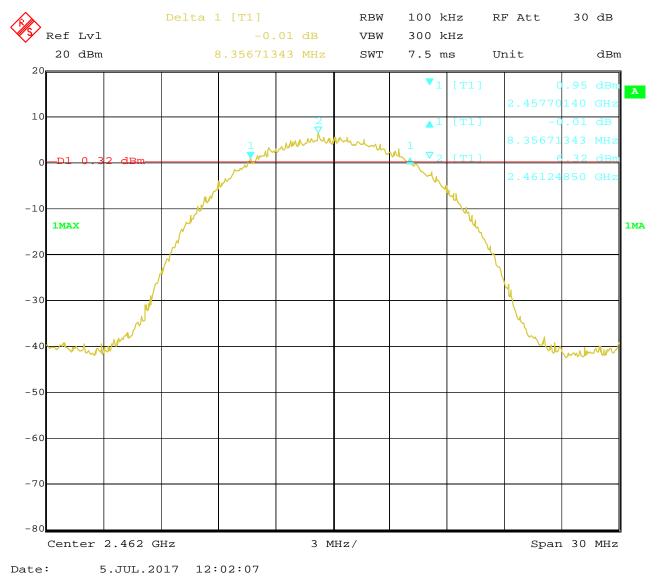
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## 6. 802.11b at 11Mbps of CH11



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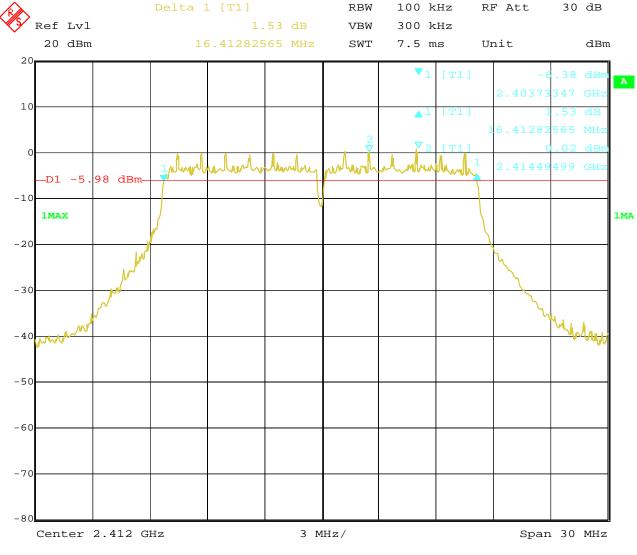
## 6dB Occupied Bandwidth

EUT		Tablet PC			Model		ST7150	
Mode		802.11g			Input Voltage		DC3.7V	
Temperat	ure	24 deg. C,			Humidity		5	6% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		ndwidth Hz)		num Limit MHz)	Pass/ Fail
1		2412	6	16.41			0.5	Pass
6		2437	6	16.41			0.5	Pass
11		2462	6	16.41			0.5	Pass

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# Test Plots: 1. 802.11g at 6Mbps of CH01



Date:

5.JUL.2017 12:10:56

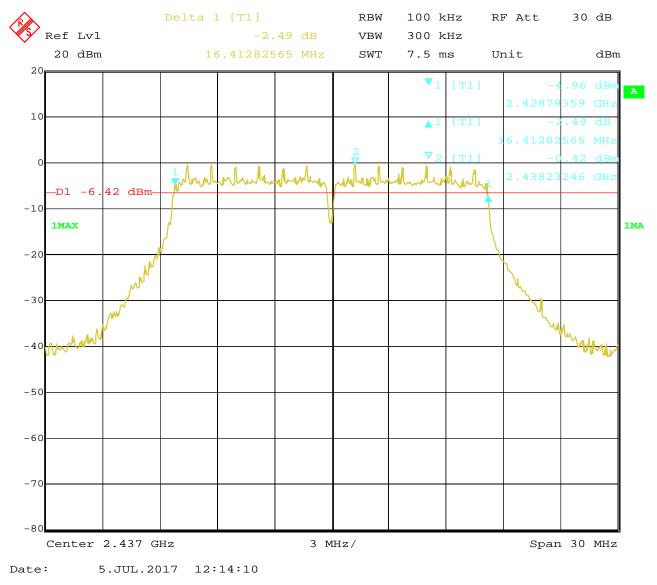
The report refers only to the sample tested and does not apply to the bulk.

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



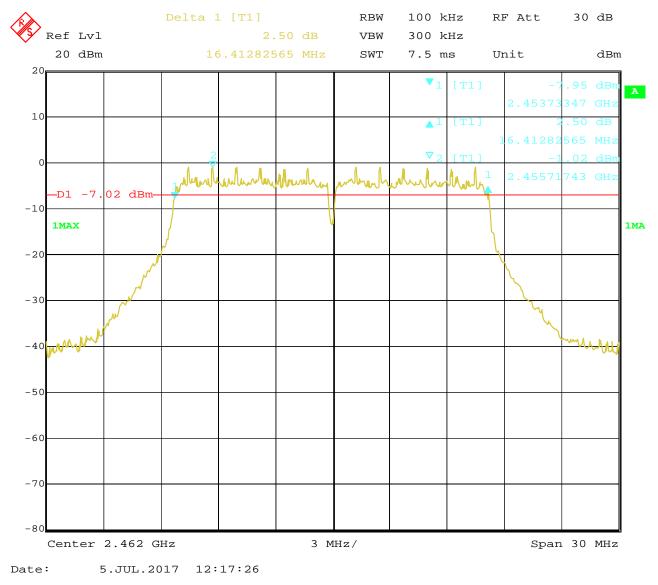
The report refers only to the sample tested and does not apply to the bulk.

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



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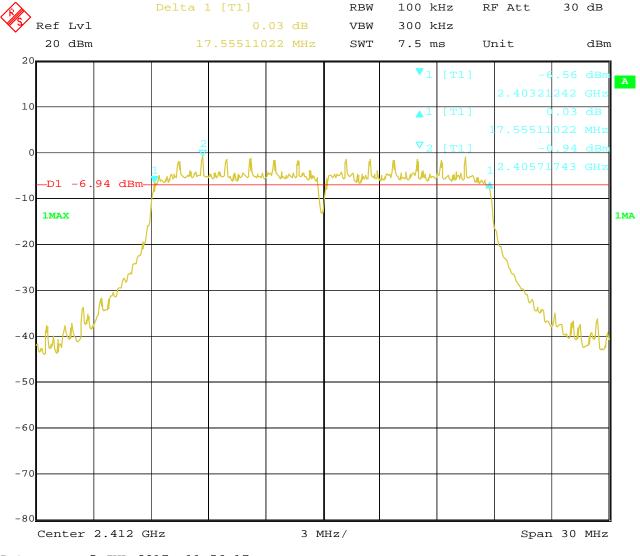
## 6dB Occupied Bandwidth

EUT		Tablet PC			Model		ST7150	
Mode		802	802.11n HT20			Input Voltage		3.7V
Temperat	ure	24	4 deg. C,		Humidity		56%	% RH
Channel		Channel Frequency (MHz) Data Transfer Rate (Mbps)		6 dB Bandwidth (MHz)		Minimum Limit (MHz)		Pass/ Fail
1		2412	mcs0	17	.56		0.5	Pass
6		2437	mcs0	17.56			0.5	Pass
11		2462	mcs0	17.56			0.5	Pass

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# Test Plots: 1. 802.11n at HT20 of CH01



Date:

5.JUL.2017 11:56:17

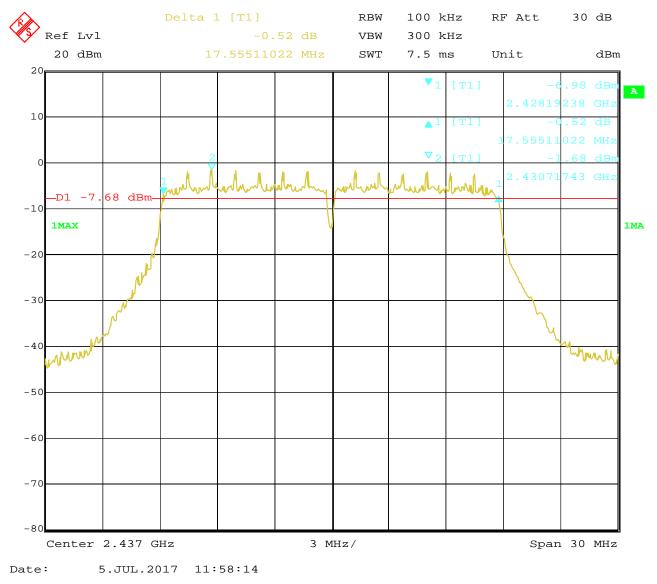
The report refers only to the sample tested and does not apply to the bulk.

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## 2. 802.11n at HT20 of CH06



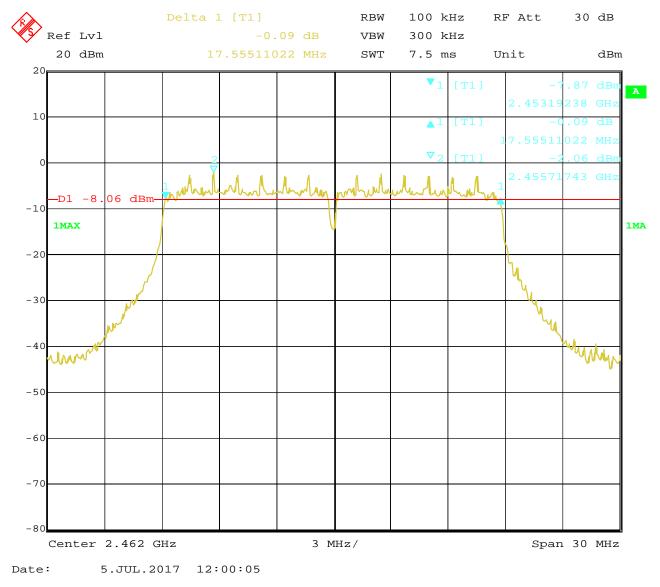
The report refers only to the sample tested and does not apply to the bulk.

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## 3. 802.11n at HT20 of CH11



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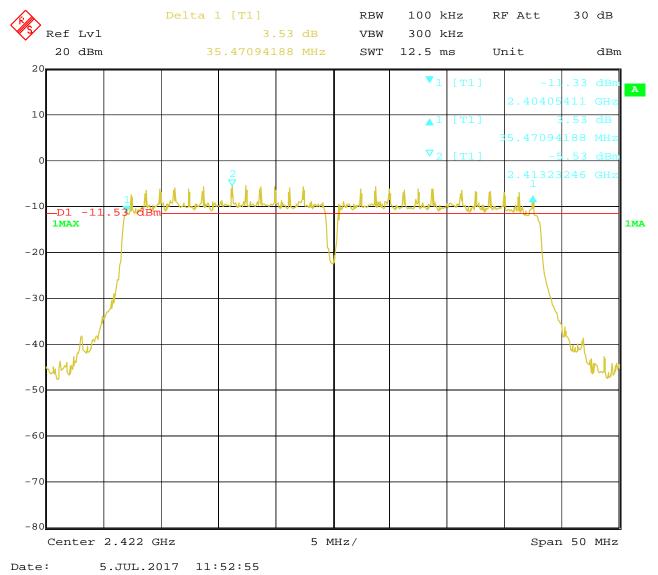
## 6dB Occupied Bandwidth

EUT		Tablet PC			Model		ST7150	
Mode		802	802.11n HT40			Input Voltage		3.7V
Temperat	ure	24	4 deg. C,		Humidity		56%	6 RH
Channel		el Frequency (MHz)				Minimum Limit (MHz)		Pass/ Fail
3		2422	422 mcs0 35.4		.47		0.5	Pass
6		2437	mcs0	35.47			0.5	Pass
9		2452	mcs0	35.47			0.5	Pass

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# **Test Plots:** 1. 802.11n at HT40 of CH03



4

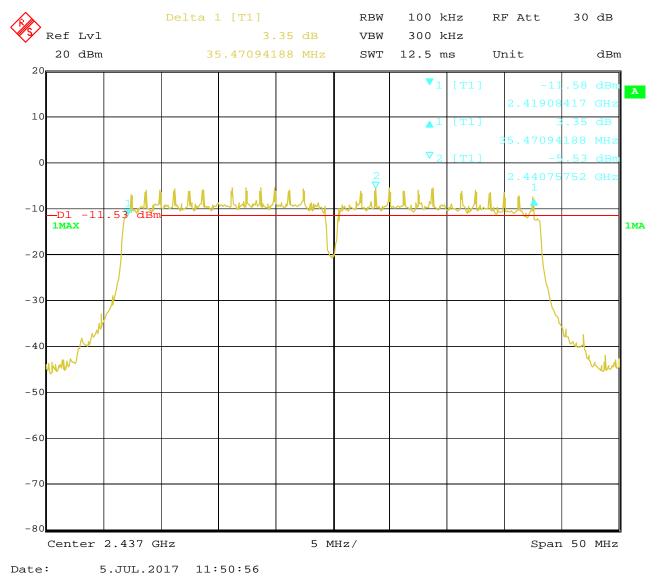
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### 2. 802.11n at HT40 of CH06



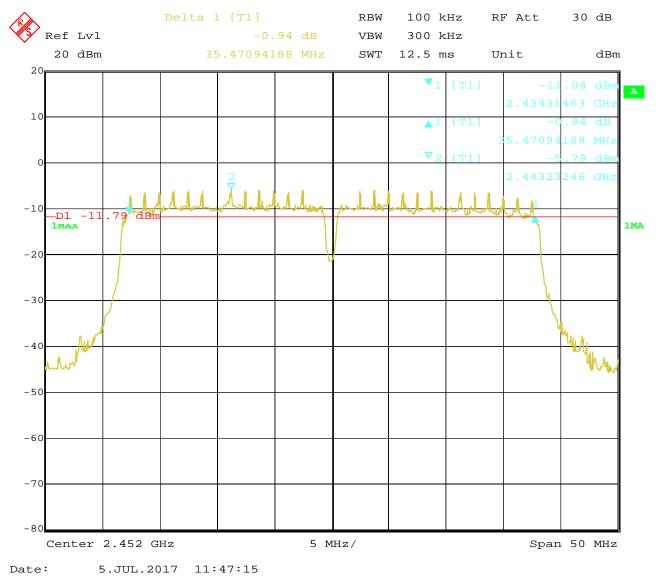
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### 3. 802.11n at HT40 of CH09



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## 99% Occupied Bandwidth

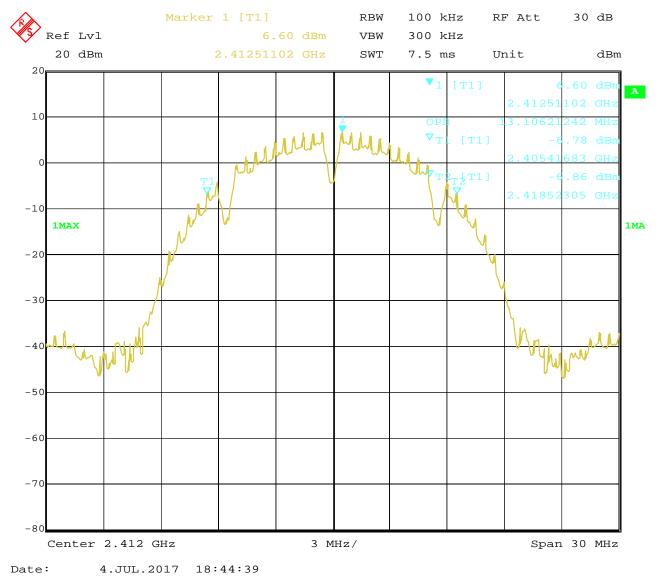
EUT		Tablet PC			Model		ST7150		
Mode		802.11b			Input Voltage		DC3.7V		
Temperat	ure	24	4 deg. C,		Humidity	r	56% RH		
Channel		Channel Frequency T (MHz)		99% Bandwidth (MHz)		Minimum Limit (MHz)		Pass/ Fail	
1		2412 1 13		11		Pass			
6		2437	437 1 13		.11			Pass	
11		2462	1	13	13.11			Pass	
1		2412	11	13.23		23		Pass	
6		2437	11	13.23		13.23		Pass	
11		2462	11	13	13.17		.17		Pass

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



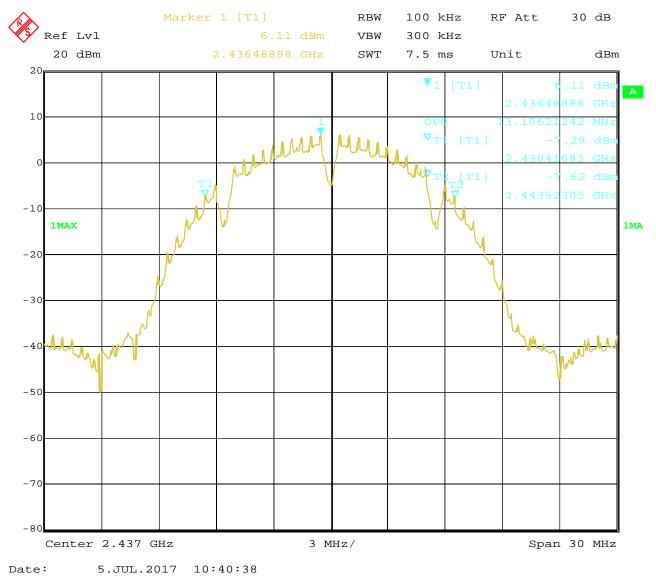
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### 2. 802.11b at 1Mbps of CH06



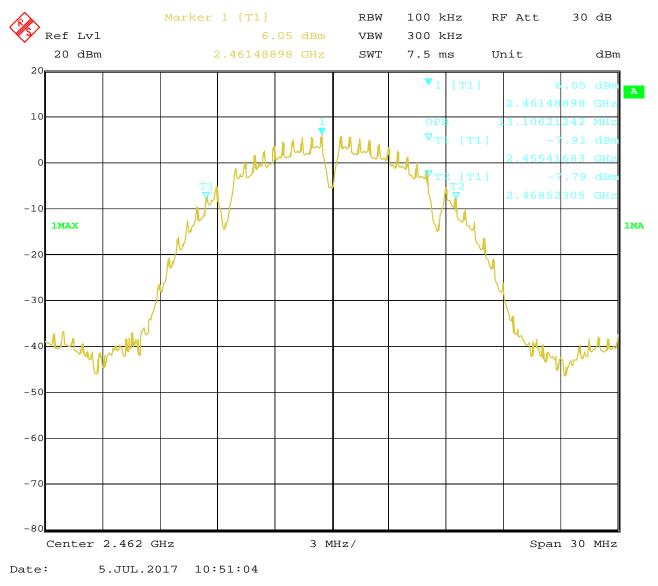
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## 3. 802.11b at 1Mbps of CH11



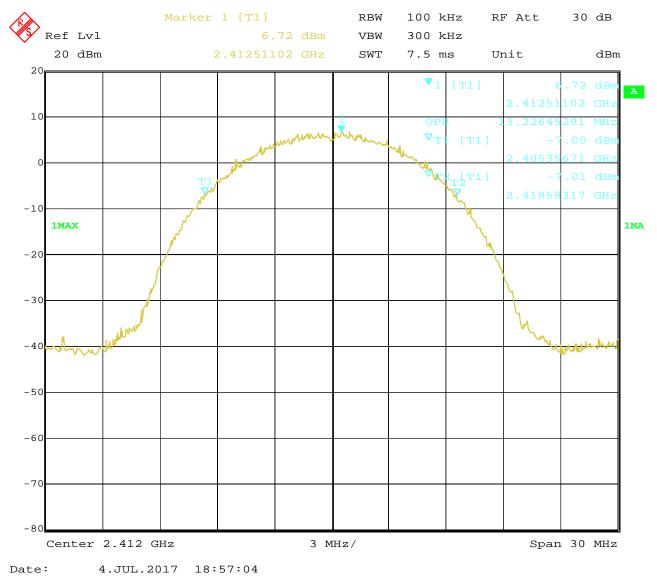
The report refers only to the sample tested and does not apply to the bulk.

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### 4. 802.11b at 11Mbps of CH01



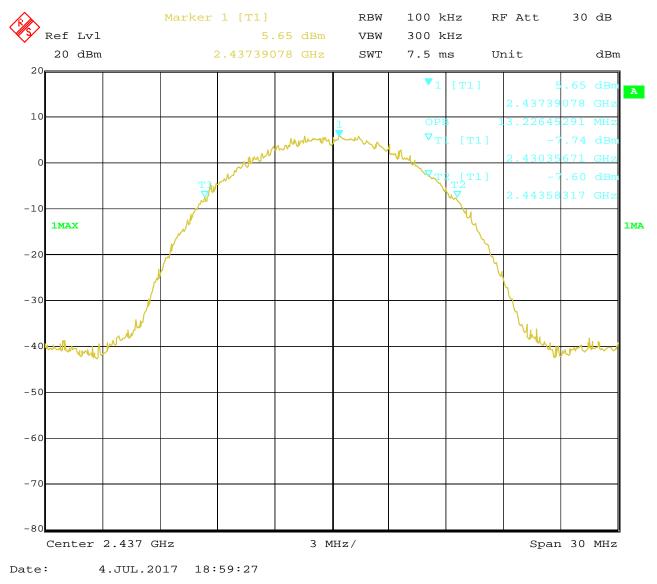
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## 5. 802.11b at 11Mbps of CH06



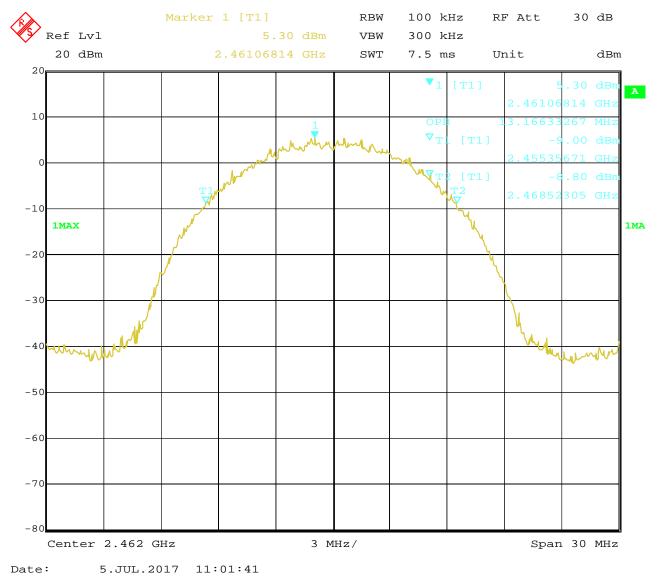
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### 6. 802.11b at 11Mbps of CH11



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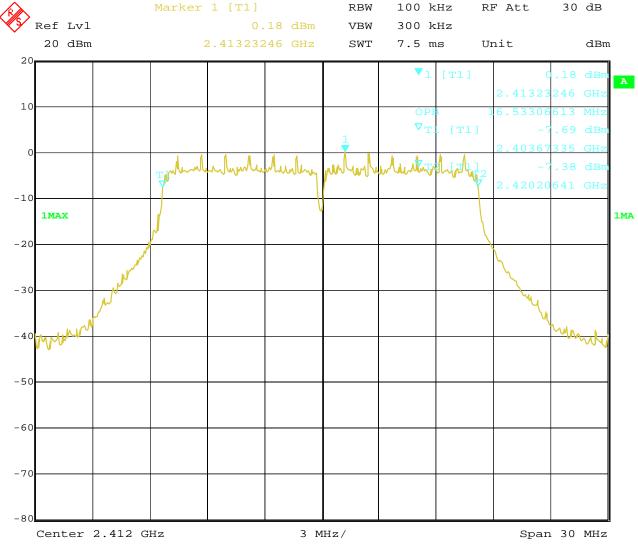
## 99% Occupied Bandwidth

EUT		Tablet PC			Model		ST7150	
Mode		802.11g			Input Voltage		DC3.7V	
Temperat	ure	24 deg. C,			Humidity		5	6% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		ndwidth Hz)		num Limit MHz)	Pass/ Fail
1		2412	6	16	16.53			Pass
6		2437	6	16.59		59		Pass
11		2462	6	16.47				Pass

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# Test Plots: 1. 802.11g at 6Mbps of CH01





4.JUL.2017 18:47:03

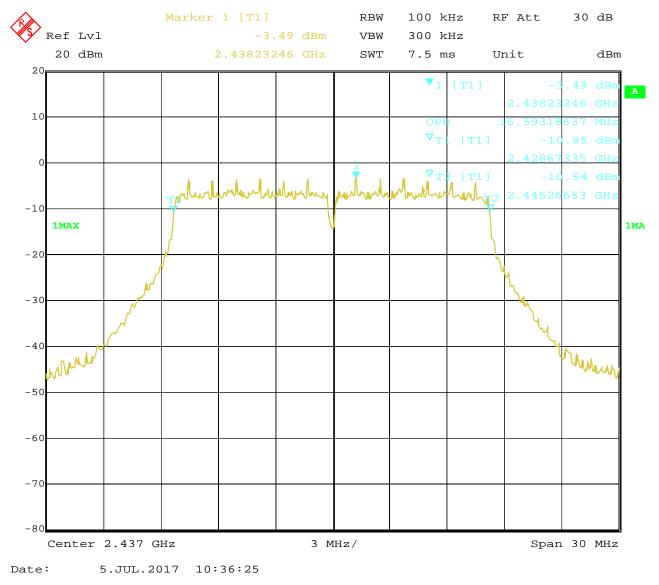
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### 2. 802.11g at 6Mbps of CH06



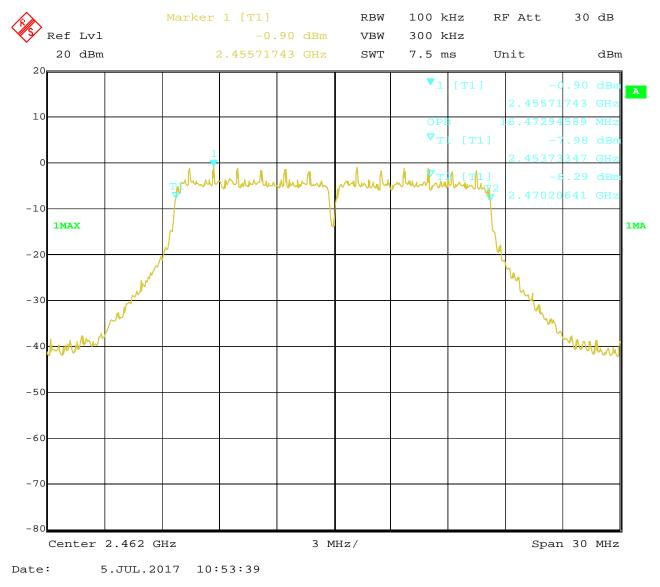
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### 3. 802.11g at 6Mbps of CH11



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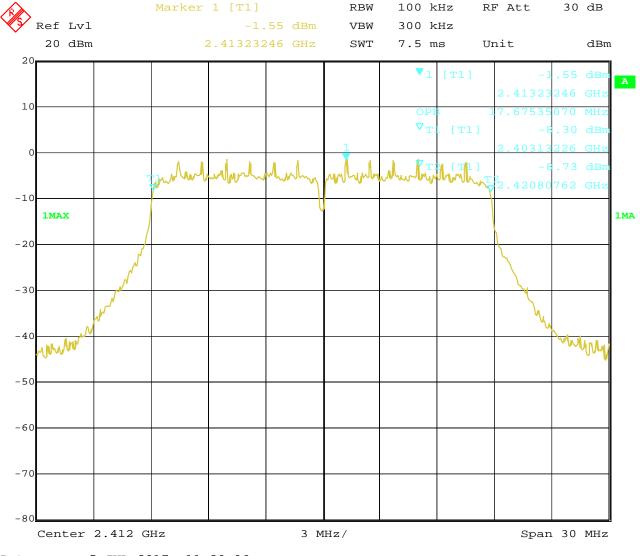
## 99% Occupied Bandwidth

EUT		Tablet PC			Model		ST7150	
Mode		802	.11n HT20		Input Voltage		DC3.7V	
Temperature		24	4 deg. C,		Humidity		56%	6 RH
Channel		Channel Frequency (MHz)		99% Bandwidth (MHz)		Minimum Limit (MHz)		Pass/ Fail
1		2412	mcs0	17	.68			Pass
6		2437	mcs0	17.68				Pass
11		2462	mcs0	17	.68			Pass

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# Test Plots: 1. 802.11n at HT20 of CH01



Date:

5.JUL.2017 11:20:06

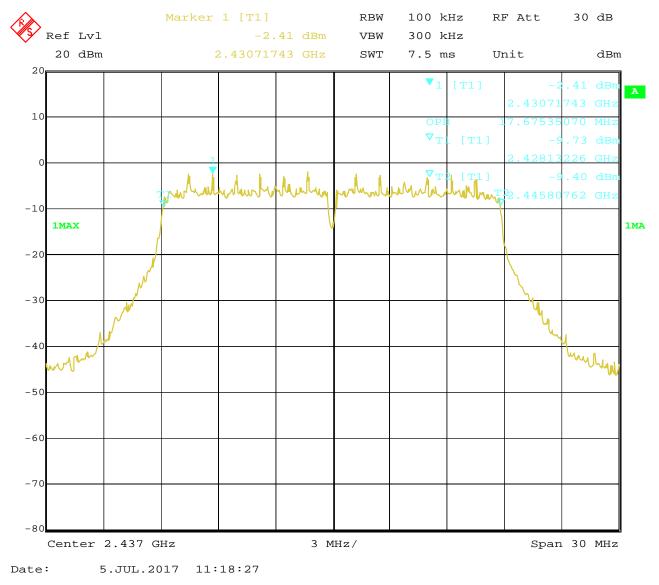
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## 2. 802.11n at HT20 of CH06



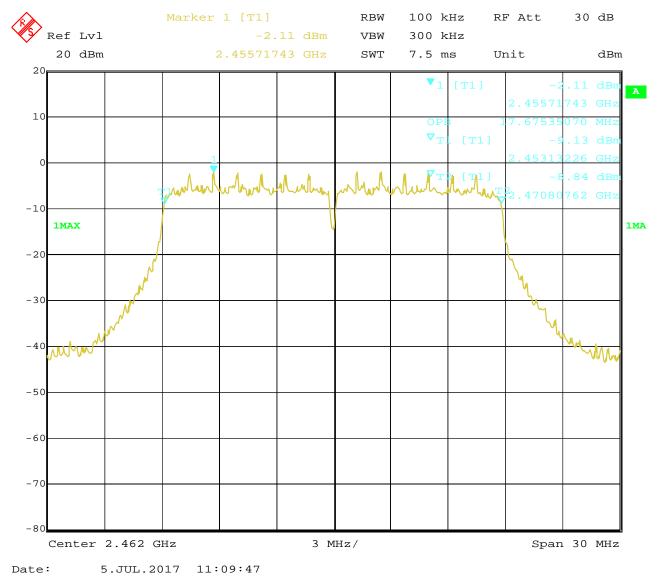
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## 3. 802.11n at HT20 of CH11



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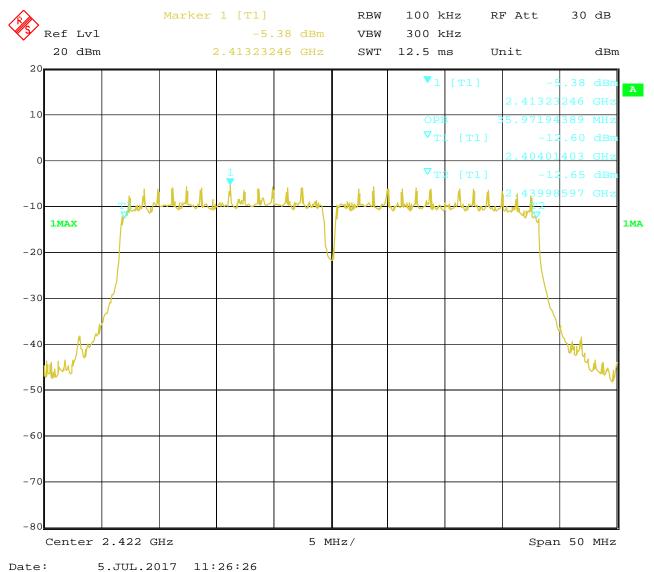
# 99% Occupied Bandwidth

EUT	Tablet PC Model			ST7150				
Mode		802	802.11n HT40 Input Voltage		tage	age DC3.7V		
Temperat	ure	24	4 deg. C,		Humidity		56%	% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)				num Limit MHz)	Pass/ Fail
3		2422	mcs0	35	.97			Pass
6		2437	mcs0	36	.07			Pass
9		2452	mcs0	35	.97			Pass

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# **Test Plots:** 1. 802.11n at HT40 of CH03



4

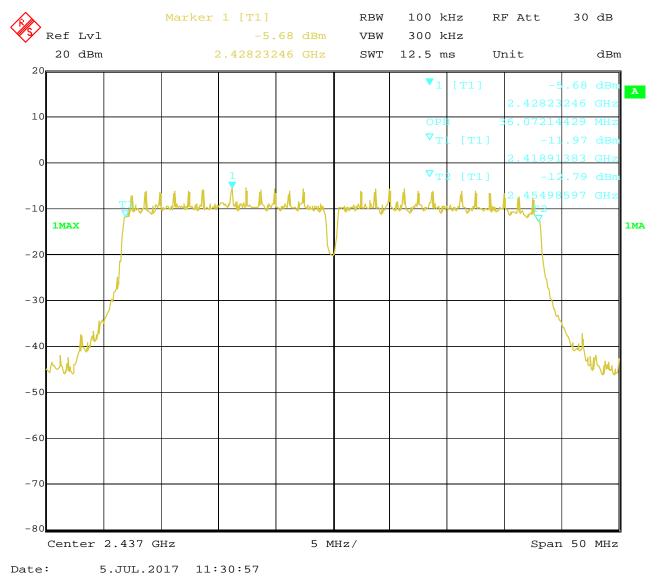
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### 2. 802.11n at HT40 of CH06



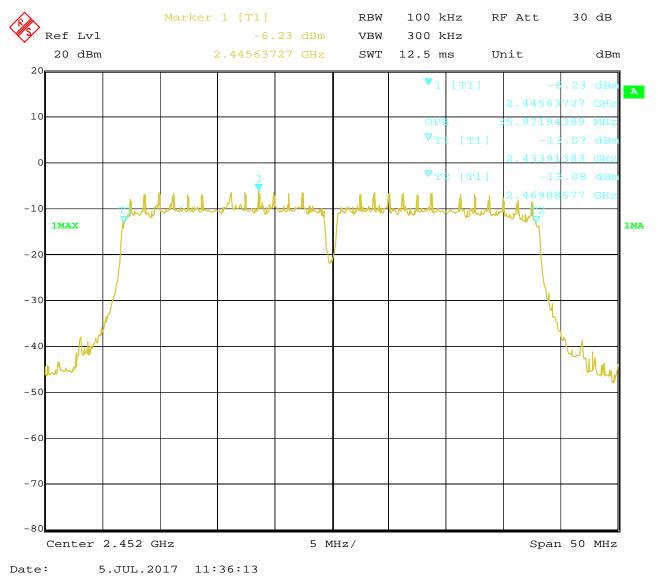
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#### 3. 802.11n at HT40 of CH09



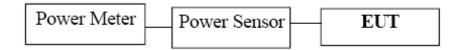
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8. Maximum Output Power 8.1 Test Setup



# 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: Average power was measured

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

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# **8.4Test Results**

EUT	EUT Tablet		t PC Mc		odel		ST7150
Mode	Mode 802.1		I1b Input		ut Voltage		DC3.7V
Temperat	Temperature 24 deg. C,		g. C,	Humidity			56% RH
Channel	Cha	annel Frequency (MHz)	Max. Power Output (dBm)		Power Limit (dBm)		Pass/ Fail
1		Averag 2412 14.84		30		)	Pass
6		2437 14.35		30		)	Pass
11		2462	14.87		30	)	Pass

Note: 1. At finial test to get the worst-case emission at 1Mbps 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		Tablet	t PC M		Iodel		ST7150
Mode		802.1	l1g Input		Input Voltage		DC3.7V
Temperat	nperature 24 deg.		g. C,	Humidity			56% RH
Channel	Cha	annel Frequency (MHz)	Max. Power ( (dBm) Average	-	Power Limit (dBm)		Pass/ Fail
1		2412 10.2			30	)	Pass
6		2437 9.92		30		)	Pass
11		2462	10.24		30		Pass

Note: 1. At finial test to get the worst-case emission at 6Mbps 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

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EUT		Tablet	: PC Mo		odel		ST7150
Mode	de 802.11n (		HT20)	Input Voltage			DC3.7V
Temperat	ure	24 deg	g. C,	Hur	Humidity		56% RH
Channel	Cha	annel Frequency (MHz)	Max. Power C (dBm)	Output	Power (dB		Pass/ Fail
		(101112)	Average	Average		III <i>)</i>	
1		2412 9.08			30		Pass
6		2437 9.22		30		)	Pass
11		2462	9.31		30	)	Pass

Note: 1. At finial test to get the worst-case emission at msc0 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		Tablet	t PC Mo		odel		ST7150
Mode	ode 802.11n (		(HT40) In		Input Voltage		DC3.7V
Temperat	ure	24 deg	g. C,	Humidity		56% RH	
Channel	Cha	annel Frequency (MHz)	Max. Power (dBm)	-	utput Power (dB		Pass/ Fail
			Average				
1		2422 9.57			30		Pass
4		2437	9.16		30		Pass
7		2452	8.68		30	)	Pass

Note: 1. At finial test to get the worst-case emission at msc0 of 11n HT40 for CH01, CH04 and CH07

2. The result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

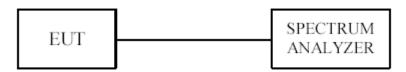
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# 9. Power Spectral Density Measurement

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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# 9.4Test Result

EUT	EUT Tablet		t PC Mo		odel		ST7150
Mode		802.11b 11Mbps		Input Voltage			DC3.7V
Temperat	ure	24 deg	g. C,	Hur	nidity		56% RH
Channel	Cha	annel Frequency (MHz)		inal RF Power M Level (dBm)		n Limit m)	Pass/ Fail
			11Mbp	5			
1		2412 -		-1.59			Pass
6		2437 -2.08		8			Pass
11		2462	-2.82		8		Pass

EUT Ta		Tablet	PC	Model		ST7150	
Mode		802.11b	l Mbps	Input Voltage		DC3.7V	
Temperat	ure	24 deg	g. C,	Hur	nidity		56% RH
Channel	Cha	annel Frequency	Final RF Po	wer	Maximur	n Limit	Pass/ Fail
Channel		(MHz)	Level in (dBm)		(dBm)		
			1Mbps				
1		-0.53		8			Pass
6		2437	2437 -0.95		8		Pass
11		2462	-1.01	8			Pass

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EUT	JT Tablet		t PC Mo		odel		ST7150
Mode	Mode 802.11g 6		6Mbps	Input Voltage		DC3.7V	
Temperat	ure	24 deg	g. C,	Humidity			56% RH
Channel	Ch	Channel Frequency Final RF Power (MHz) Level in (dBm			Maximum Limit (dBm)		Pass/ Fail
			6Mbps				
1	2412		-8.21	-8.21			Pass
6		2437 -9		-9.30			Pass
11		2462	-8.43		8		Pass

EUT	UT Tablet		t PC Mo		odel		ST7150
Mode	Mode 802.11n HT		Γ20 msc0 Input		Input Voltage		DC3.7V
Temperat	ure	24 deg	g. C,	Humidity			56% RH
Channel	Ch	annel Frequency	Final RF Power		Maximum Limit		Pass/ Fail
Channel		(MHz)	Level (dBm)		(dBm)		
			HT20				
1		2412 -11.87		8			Pass
6		2437	-11.48		8		Pass
11		2462	-9.80	8			Pass

EUT	EUT Tablet		t PC Mo		odel		ST7150
Mode	Mode 802.11n HT		Г40 msc0 Input		Input Voltage		DC3.7V
Temperat	ure	24 deg	g. C,	Humidity			56% RH
Channel	Cha	annel Frequency	Final RF Power		Maximum Limit		Pass/ Fail
Channel		(MHz)	Level (dBm)		(dBm)		
			HT40				
1		2422 -13.88		8			Pass
4		2437	-14.46		8		Pass
7		2452	-15.47		8		Pass

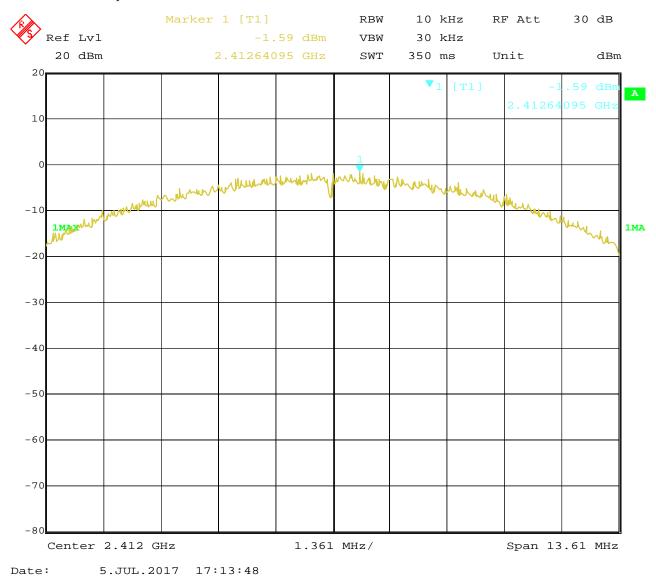
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## 9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01



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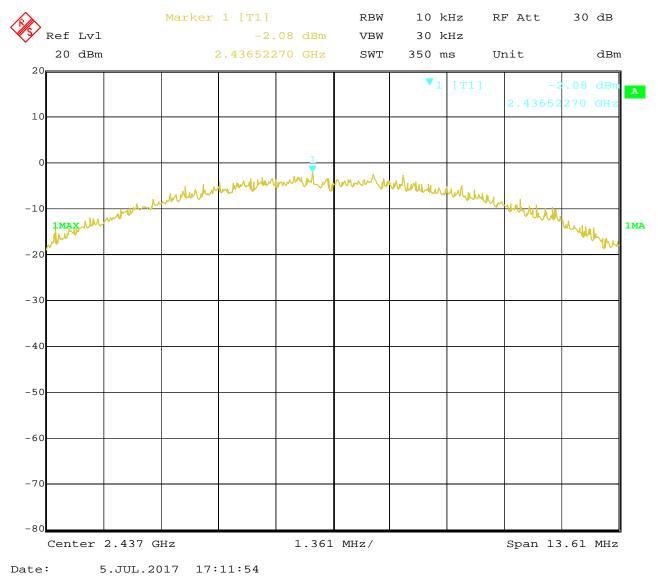
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### 2. 802.11b at 11Mbps at CH06



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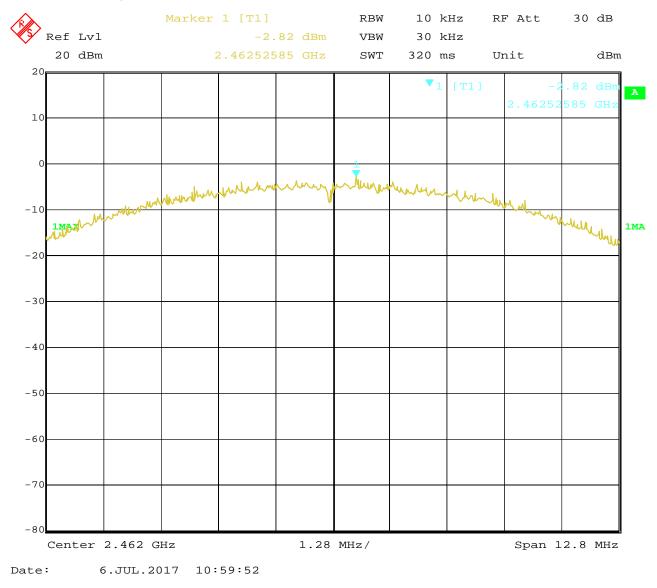
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## 3. 802.11b at 11Mbps of CH11



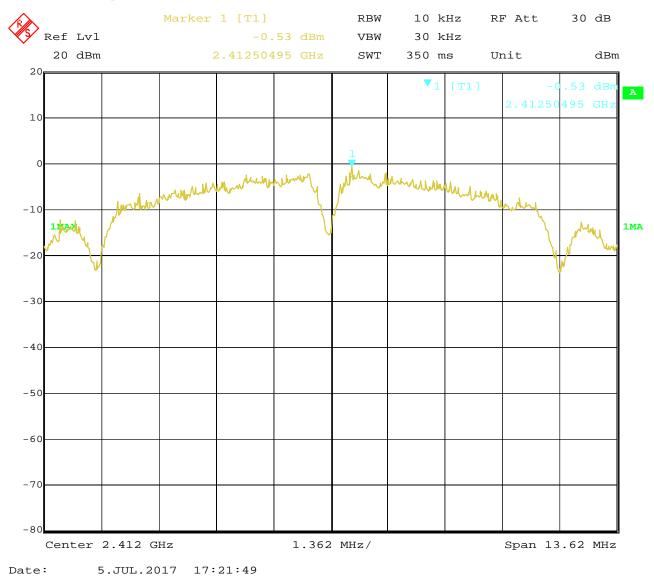
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4. 802.11b at 1Mbps of CH1



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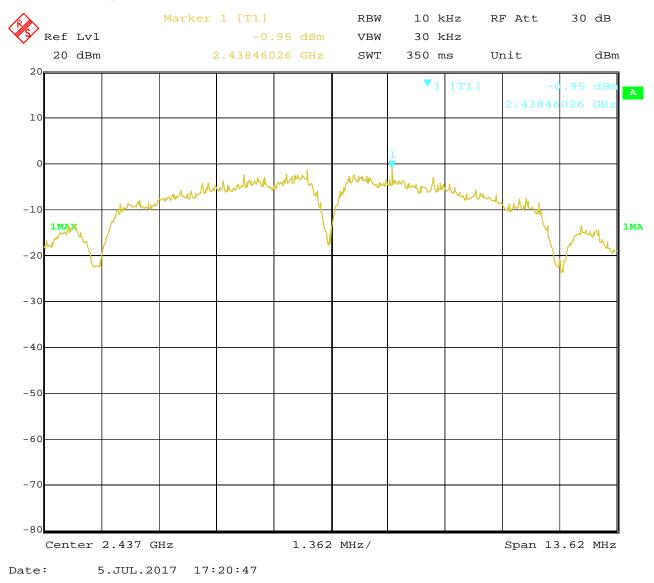
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5. 802.11b at 1Mbps of CH6



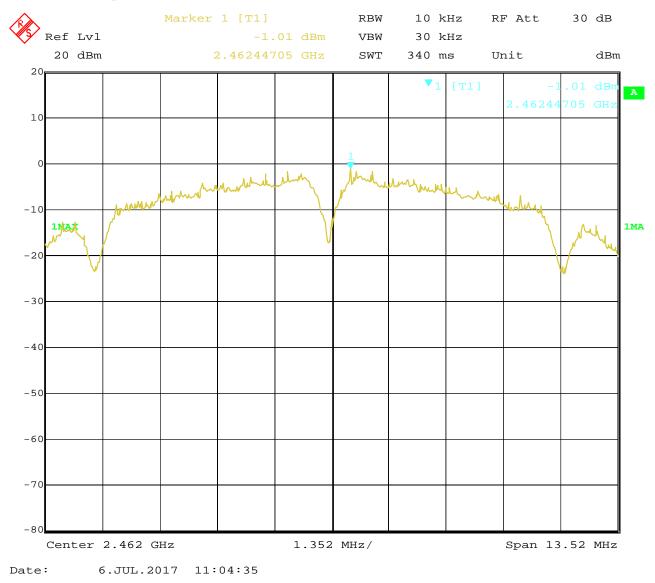
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6. 802.11b at 1Mbps of CH11



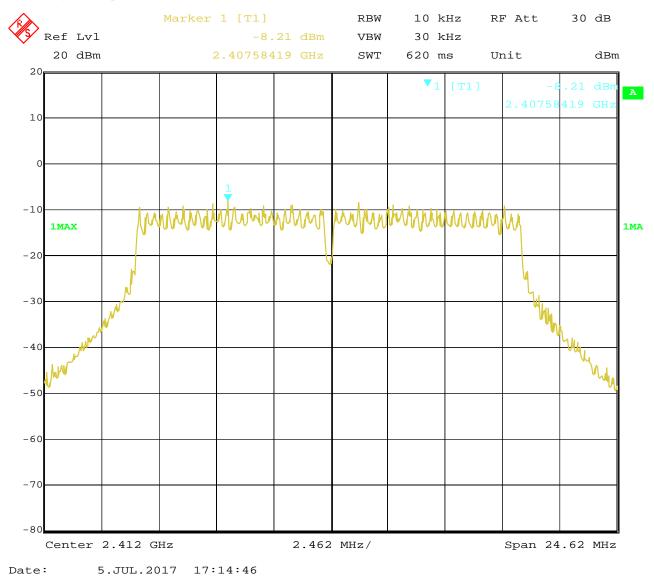
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7. 802.11g at 6Mbps of CH1



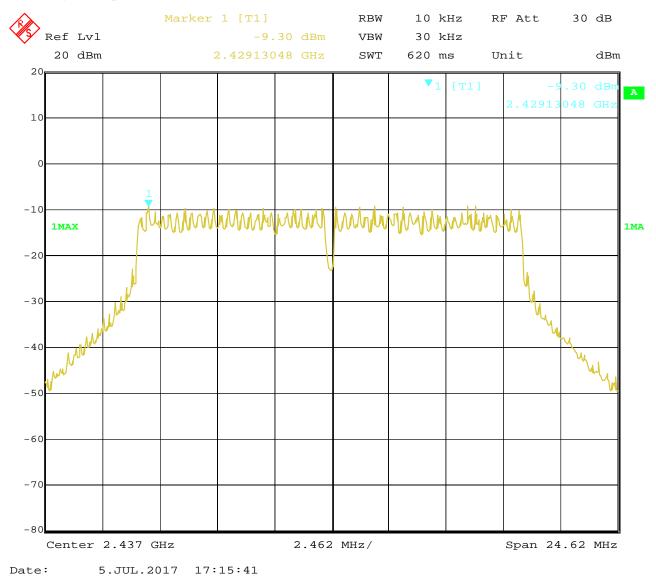
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8. 802.11g at 6Mbps of CH6

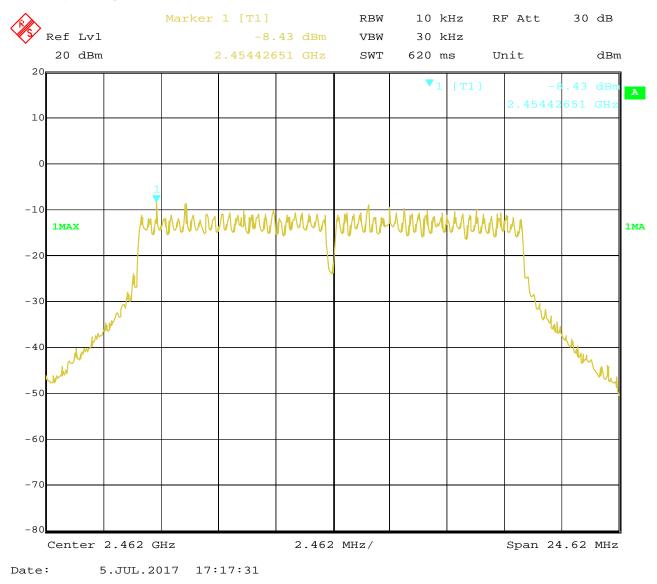


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9. 802.11g at 6Mbps of CH11

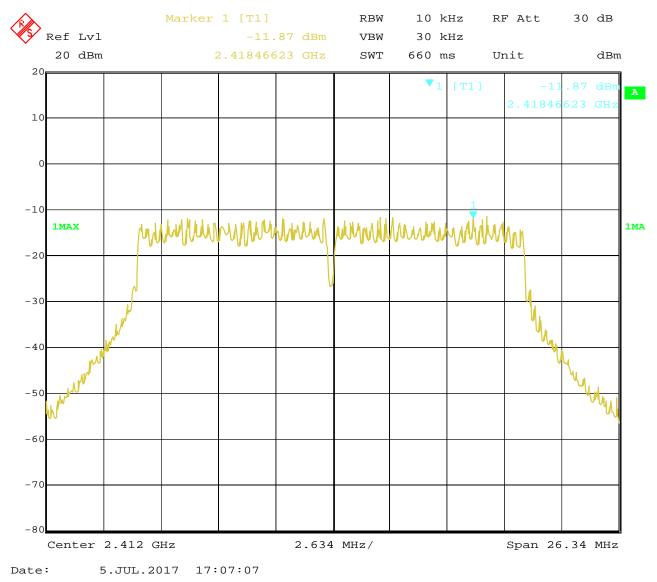


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10. 802.11n at HT20 of CH01

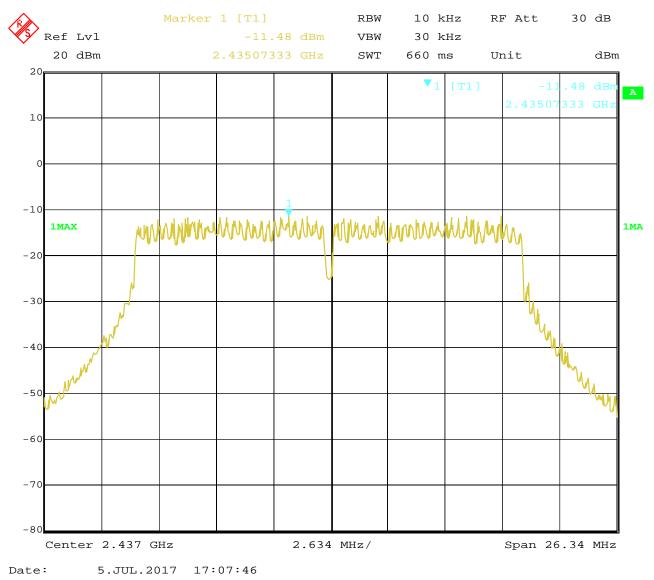


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11. 802.11n at HT20 of CH06



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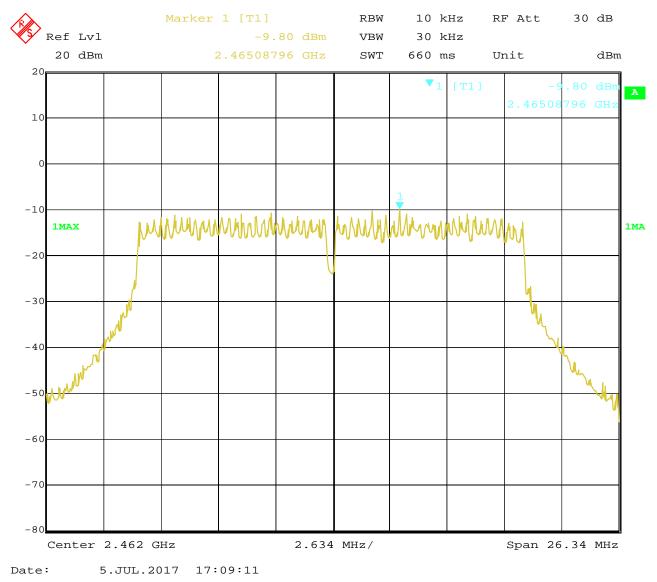
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12. 802.11n at HT20 of CH11



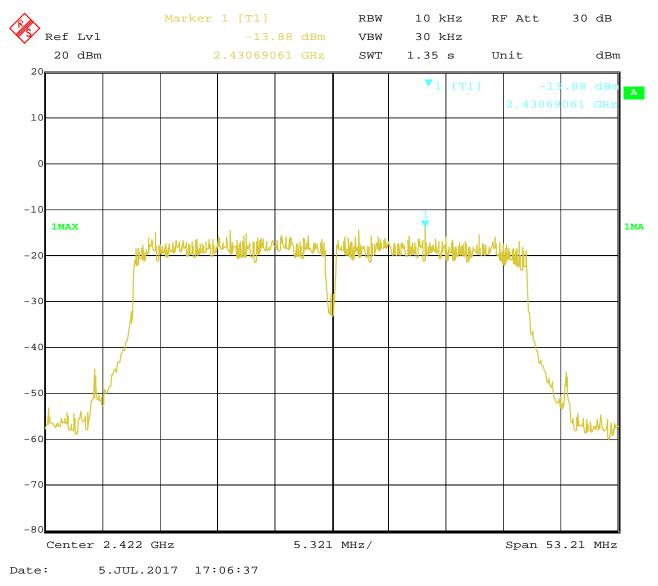
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### 13. 802.11n at HT40 of CH01



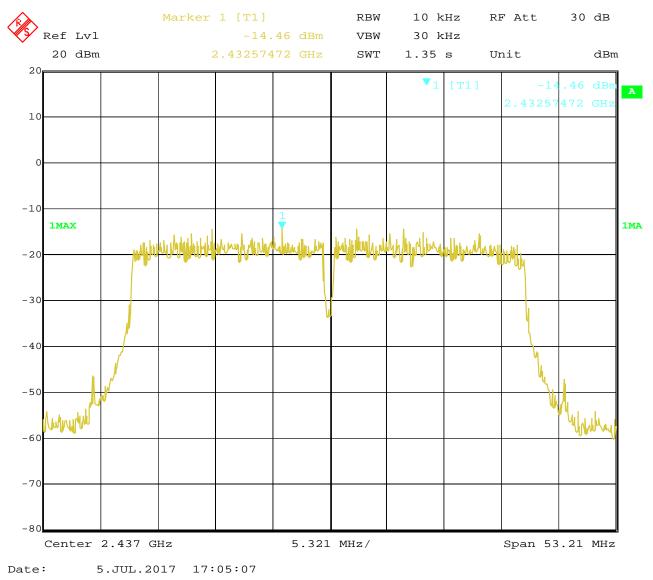
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14. 802.11n at HT40 of CH04



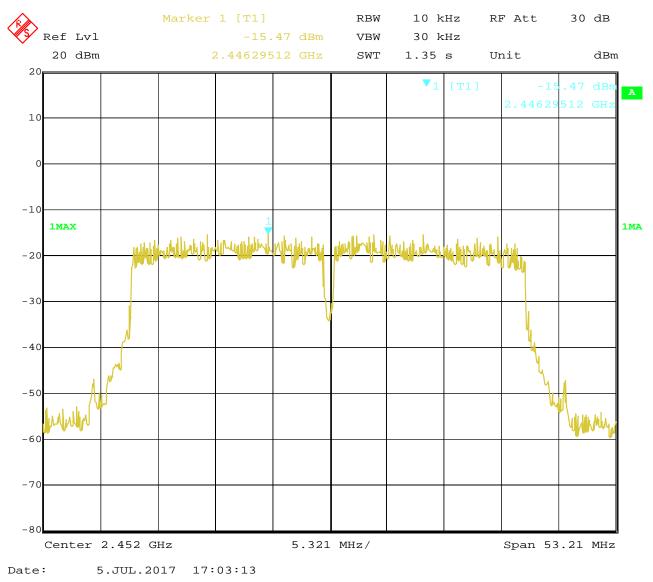
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15. 802.11n at HT40 of CH07

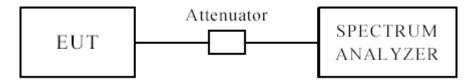


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**10 Out of Band Measurement 10.1 Test Setup for band edge** 



### 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=300 kHz. A conducted measurement used

### **10.4 Test Result**

Please see next pages

Note: 1. this is a handhold 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.

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

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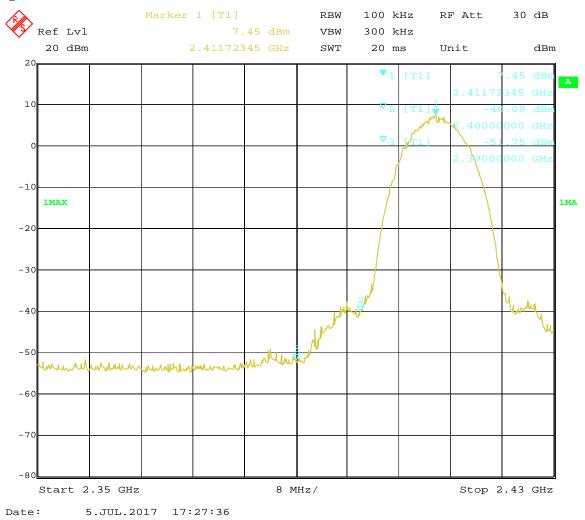
## For 802.11b mode

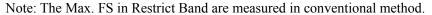
#### CH01 at 11Mbps

# 10.4 Band-edge and Restricted band Measurement

EUT	Tablet PC		Model	ST7150
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	РК
2400	PK (dBµV/m)	61.3	Limit	74(dBµV/m)
	AV ( $dB\mu V/m$ )	42.6	Limit	54(dBµV/m)
2390	PK (dBµV/m)	48.7	Limit	74(dBµV/m)
	AV ( $dB\mu V/m$ )		Liiiit	54(dBµV/m)

#### **Test Figure:**





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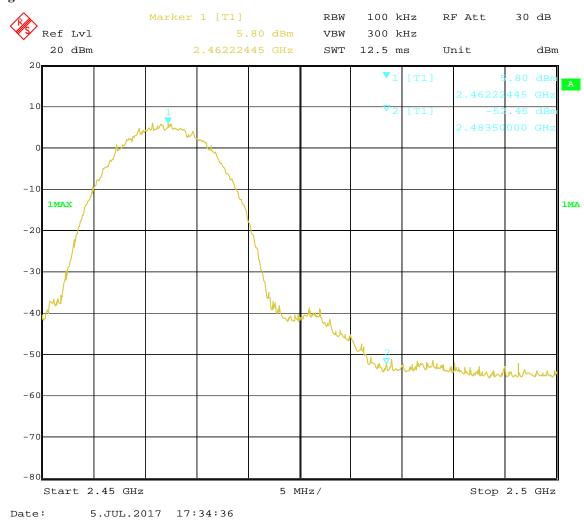


### CH11 at 11Mbps

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

0				
EUT	Tablet PC		Model	ST7150
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	РК
2483.5	PK (dBµV/m)	48.4	T	74(dBµV/m)
	AV ( $dB\mu V/m$ )		Limit	54(dBµV/m)

#### **Test Figure:**



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

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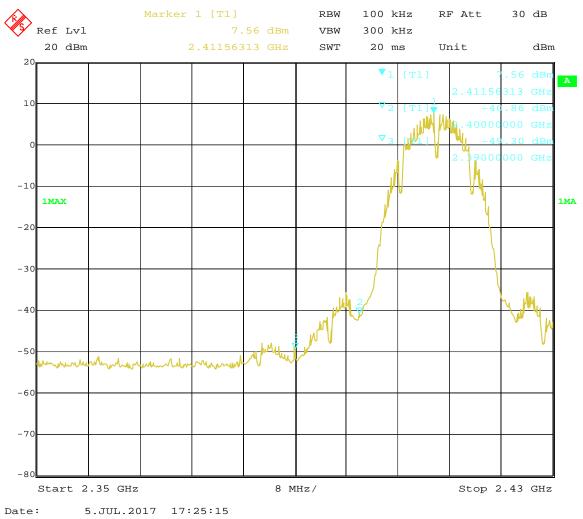
## For 802.11b mode

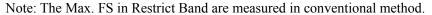
#### CH01 at 1Mbps

# 10.4 Band-edge and Restricted band Measurement

EUT	Tablet PC		Model	ST7150
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	РК
2400	PK (dBµV/m)	61.9	Limit	74(dBµV/m)
	AV ( $dB\mu V/m$ )	42.3	Limit	54(dBµV/m)
2390	PK (dBµV/m)	47.5	Limit	74(dBµV/m)
	AV ( $dB\mu V/m$ )			54(dBµV/m)

### **Test Figure:**





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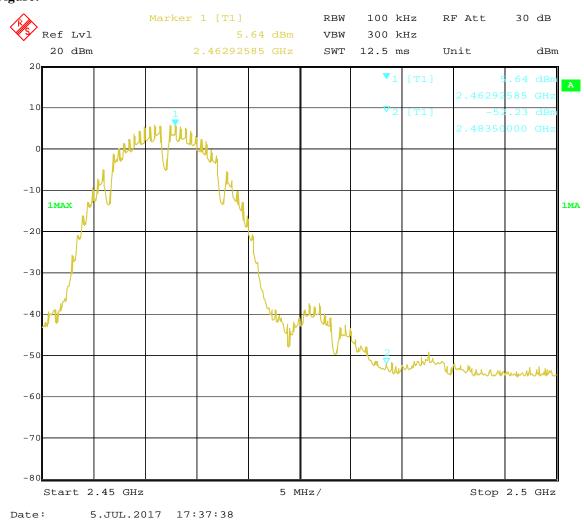


### CH11 at 1Mbps

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

EUT	Tablet PC		Model	ST7150
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:			Detector	PK
Test Result.	Pass		Delector	٢ĸ
2483.5	PK ( $dB\mu V/m$ )	47.1	T	74(dBµV/m)
	AV (dBμV/m)		Limit	54(dBµV/m)

#### **Test Figure:**



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

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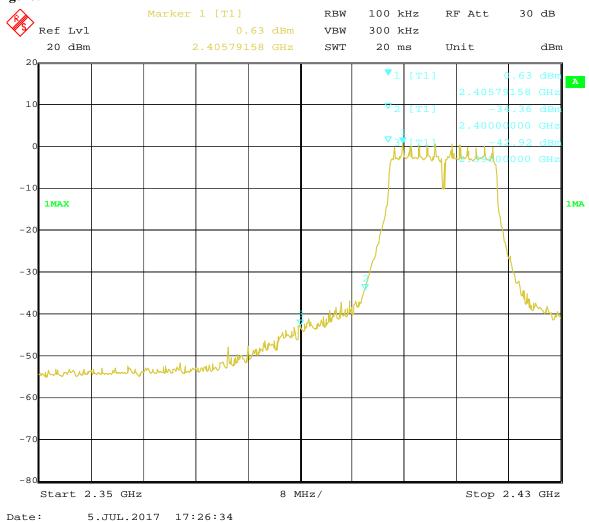
# For 802.11g mode

### CH01 at 6Mbps

# 10.4 Band-edge and Restricted band Measurement

EUT	Tablet PC		Model	ST7150
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	РК
2400	PK (dBµV/m)	67.9	Limit	74(dBµV/m)
	AV ( $dB\mu V/m$ )	48.4	Limit	54(dBµV/m)
2390	PK (dBµV/m)	52.0	Limit	74(dBµV/m)
	AV ( $dB\mu V/m$ )	33.3	Liiiit	54(dBµV/m)

### **Test Figure:**



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

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

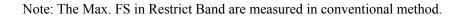
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CH11 at 6Mbps

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

EUT	Ta	iblet PC	Model			ST7150		
Mode	Keeping Transmitting		Input Voltage		DC3.7V			
Temperature	24 deg. C,		Humidity		56% RH			
Test Result:		Pass	Dete	Petector PK				
2483.5	PK ( $dB\mu V/m$ )	57.8	Limit			74(dBµ	V/m)	
	$AV\left(dB\mu V/m\right)$	38.1	Liiiit			54(dBµ	V/m)	
Test Figure:								
<b>K</b>	Marł	ter 1 [T1]	RBW	100 k	Hz R	F Att	30 dB	
20 d		-0.50 dBm	VBW	300 k			10	
20 a	Bm	2.45571142 GHz	SWT	12.5 m	s U:	nit	dBrr	1
				▼1	[T1]	-0	.50 dBm 142 GHz	A
10				₹2	[T1]	2.45571	142 GHz .56 dBm	
						2.48350	000 GHz	
0	Mahahaha							
	muning	munial						
-10								1.00
1MAX								1MA
-20		<u> </u>						
-30		Y Y						
-40		<u>\u</u>	SALLA L	2				
-40			a month	Mulužu				
-50				v u	m mun			
						monun	mound	
-60								
-70								
-80								ļ
Start	2.45 GHz	5 M	Hz/			Stop	2.5 GHz	



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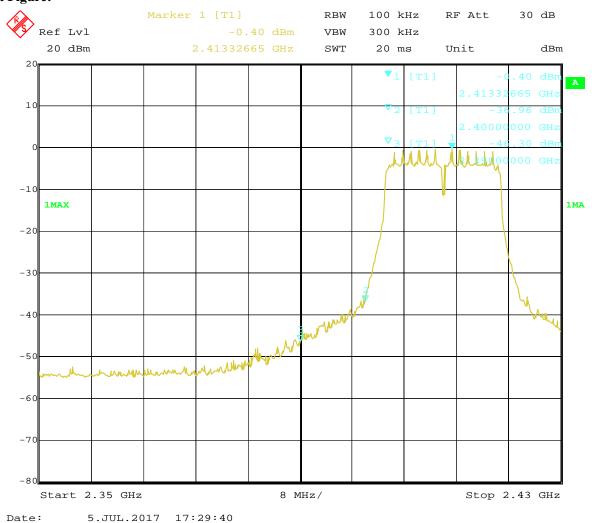
### For 802.11n (HT20) mode

#### CH01 at msc0

# 10.4 Band-edge and Restricted band Measurement

EUT	Tablet PC		Model	ST7150
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	РК
2400	PK (dBµV/m)	67.1	Limit	74(dBµV/m)
	AV ( $dB\mu V/m$ )	47.9	Limit	54(dBµV/m)
2390	PK (dBµV/m)	52.6	Limit	74(dBµV/m)
	AV (dBµV/m)	33.5		54(dBµV/m)

#### **Test Figure:**



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

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### CH11 at msc0

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

10.4 Danu-euge	and Restricted ba	ina medisarement		
EUT	T	ablet PC	Model	ST7150
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	РК
2483.5	PK (dBµV/m)	dBμV/m) 58.1		74(dBµV/m)
	AV ( $dB\mu V/m$ )	39.3	Limit	54(dBµV/m)
Test Figure:				
Ref Lv 20 dł	rl	er l [T1] -1.77 dBm 2.45571142 GHz	RBW 100 ki VBW 300 ki SWT 12.5 mi	Hz
20			▼1	[T1] -1.77 dBm 2.45571142 GHz
10	1		₹2	[T1] -46.64 dBm 2.48350000 GHz
	Mallanday	hllhh		
-10 1MAX	Ú			1MA
-20				
-40		J V		
- 40			M. M. M. M.	bodelle Mulliman un
				" mull the day worken
-60				
-70				
-80	2.45 GHz	5 M1		Stop 2.5 GHz

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

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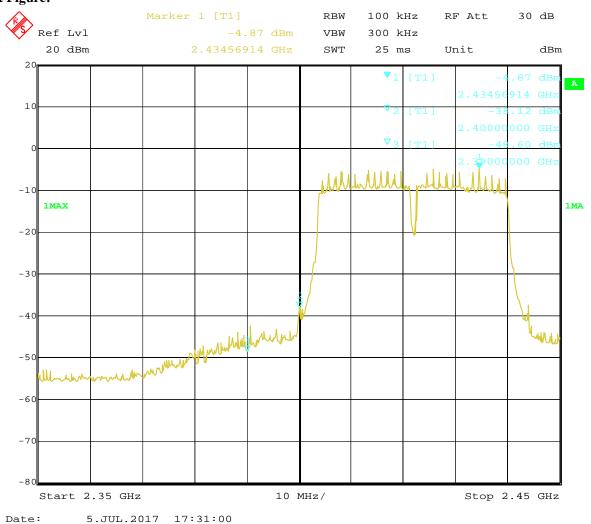
#### For 802.11n (HT40) mode

#### CH03 at msc0

# 10.4 Band-edge and Restricted band Measurement

EUT	Tablet PC		Model	ST7150
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	РК
2400	PK (dBµV/m)	65.5	T insit	74(dBµV/m)
	AV ( $dB\mu V/m$ )	46.3	Limit	54(dBµV/m)
2390	PK (dBµV/m)	57.6	Limit	74(dBµV/m)
	AV ( $dB\mu V/m$ )	38.3	LIIIIIt	54(dBµV/m)

#### **Test Figure:**



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

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CH09 at msc0

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

10.4 Dallu-euge	und reconnected of					
EUT	Т	ablet PC	Model	ST7150		
Mode	Keeping Transmitting		Input Voltage DC3.			
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:		Pass	Detector	РК		
2483.5	PK (dBµV/m)	59.2	<b>T</b> · · ·	74(dBµV/m)		
	AV (dBµV/m)	40.5	Limit	54(dBµV/m)		
Test Figure:						
Ref L 20 d	vl	cer 1 [T1] -4.83 dBm 2.44444890 GHz	RBW 100 ki VBW 300 ki SWT 17.5 ma	Hz	n	
20			▼1	[T1] -4.83 dBn 2.44444890 GHz	A	
10			₹2	[T1] -46.57 dBn 2.48350000 GHz		
-10	Junhulun	Why pulled the lit	<u>lui</u>			
-20					1MA	
-30						
-40						
-50			hilledge	Marill participalities and		
-60				~~~	-	
-70						
-80						
	2.43 GHz	7 M	Hz/	Stop 2.5 GHz		

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

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# 11.0 Antenna Requirement

### 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount 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 0dBi.

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#### 12.0 FCC ID Label

## FCC ID: RBD-M710R2

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

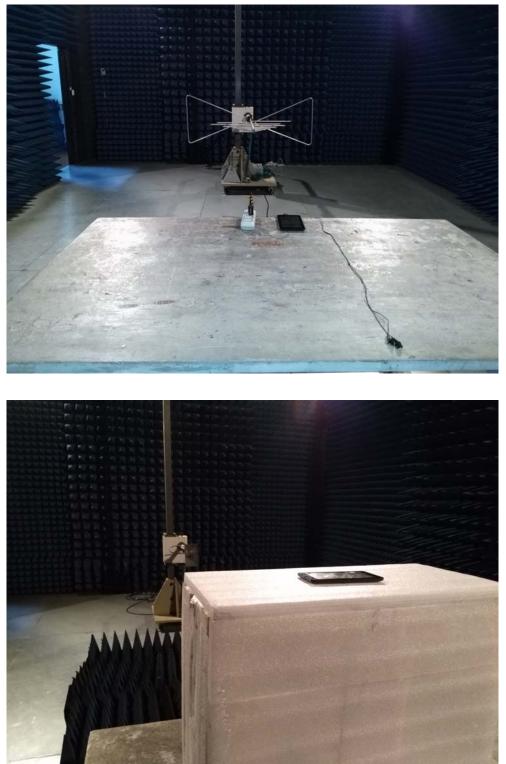
Conducted Emission Test Setup:



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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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Inside view



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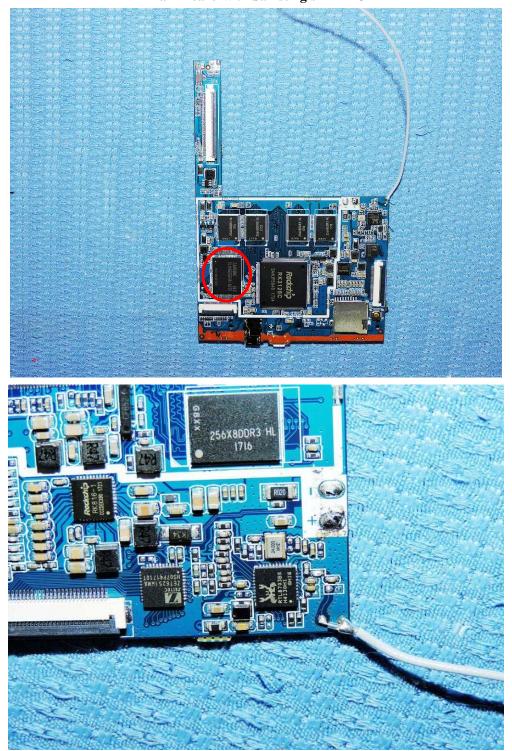
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Inside

Main Board with Samsung's EMMC

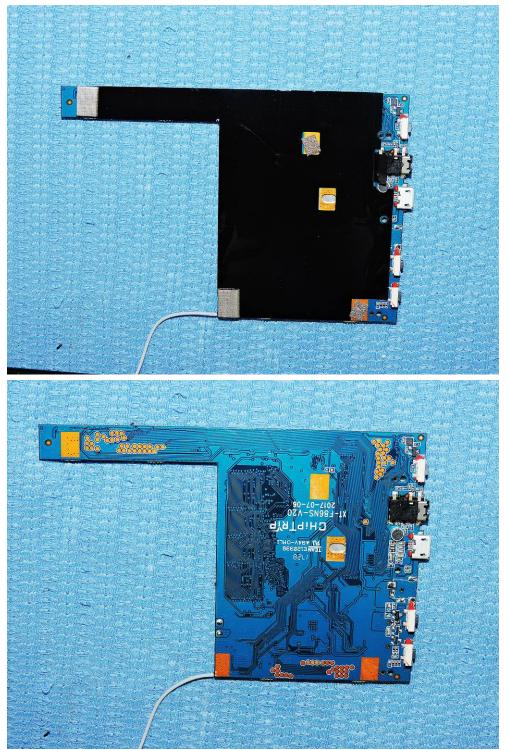
view



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Inside view



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## Inside view Main Board with FORESEE's EMMC

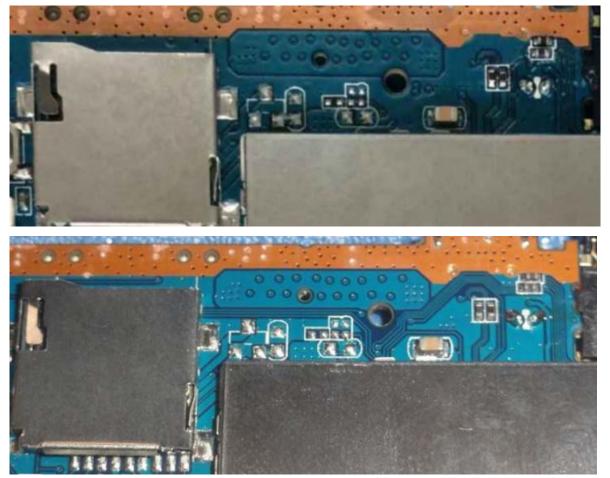


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Internal Photos-different layout for G-sensor I<sup>2</sup>C, OTG test, Volume adjustment and Amplifier enable



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