







#### ISO/IEC17025Accredited Lab.

Report No: FCC 1504057-01 File reference No: 2015-04-15

Applicant: SHENZHEN HARMONY TECHNOLOGY CO., LTD

Product: TABLET PC

Model No: PLT1077G

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: April 15, 2015

Results appearing herein relate only to the sample tested

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

## SHENZHEN TIMEWAY TESTING LABORATORIES

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

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

Report No: FCC1504057-01 Page 2 of 102

Date: 2015-04-15



# **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.

Date: 2015-04-15



# **Test Report Conclusion**

#### Content

1.0	General Details	4
1.1	Test Lab Details.	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	5
1.5	Test Duration.	5
1.6	Test Uncertainty.	5
1.7	Test By	5
2.0	List of Measurement Equipment	6
3.0	Technical Details	8
3.1	Summary of Test Results	8
3.2	Test Standards.	8
4.0	EUT Modification.	8
5.0	Power Line Conducted Emission Test.	9
5.1	Schematics of the Test.	9
5.2	Test Method and Test Procedure.	9
5.3	Configuration of the EUT.	9
5.4	EUT Operating Condition.	10
5.5	Conducted Emission Limit.	10
5.6	Test Result.	10
6.0	Radiated Emission test.	13
6.1	Test Method and Test Procedure.	13
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition.	13
6.4	Radiated Emission Limit.	14
7.0	6dB Bandwidth Measurement	38
8.0	Maximum Peak Output Power	58
9.0	Power Spectral Density Measurement.	61
10.0	Out of Band Measurement.	79
11.0	Antenna Requirement.	90
12.0	FCC Label.	91
13.0	Photo of Test Setup and EUT View	92

Date: 2015-04-15



#### 1.0 General Details

#### Test Lab Details 1.1

SHENZHEN TIMEWAY TESTING LABORATORIES. Name:

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

Guangdong China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

#### 1.2 Applicant Details

Applicant: SHENZHEN HARMONY TECHNOLOGY CO., LTD

Address: Block 2, Jiayuan Industrial Zone, Heping Community high-tech Park, No 2 Fuyuan Road,

Fuyong, Bao'an, Shenzhen, China

Telephone: Fax:

#### 1.3 Description of EUT

Product: TABLET PC

Manufacturer: SHENZHEN HARMONY TECHNOLOGY CO., LTD

Address: Block 2, Jiayuan Industrial Zone, Heping Community high-tech Park, No 2

Fuyuan Road, Fuyong, Bao'an, Shenzhen, China

**Brand Name:** N/A

Model Number: **PLT1077G** 

Additional Model Number: N/A

Type of Modulation IEEE 802.11b: DSSS (CCK, QPSK, DBPSK)

IEEE 802.11g/n (HT20, HT40): OFDM(64QAM, 16QAM, QPSK, BPSK)

Frequency range IEEE 802.11b/g/n (HT20): 2412-2462MHz; 802.11n(HT40): 2422-2452MHz

**Channel Spacing** 5MHz for IEEE 802.11b/g/n(HT20, HT40)

Air Data Rate IEEE 802.11b: 11, 5.5, 2, 1 Mbps

IEEE 802.11g: 54, 48,36, 24, 18, 12, 9, 6 Mbps

IEEE 802.11n HT20/40: 150, 135, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6

Mbps

Frequency Selection By software

Channel Number IEEE 802.11b/g/n (HT20): 11 Channels

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 an will not, without the consent 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

Report No: FCC1504057-01 Page 5 of 102

Date: 2015-04-15



IEEE 802.11n HT40: 7 Channels

Antenna: Integral Antenna with maximum gain 2.0dBi

Submitted Sample: 2 Samples

1.5 Test Duration

2015-03-06 to 2015-04-15

Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions Uncertainty =4.7dB

Test Engineer 1.7

Terry Tang The sample tested by

Print Name: Terry Tang

Page 6 of 102

Report No: FCC1504057-01

Date: 2015-04-15



2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2014-08-21	2015-08-20
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2014-08-22	2015-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2014-08-22	2015-08-21
Ultra Broadband ANT	R&S	HL562	100157	2014-08-23	2015-08-22
ESDV Test Receiver	R&S	ESDV	100008	2014-08-22	2015-08-21
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2014-08-21	2015-08-20
System Controller	CT	SC100	-		
Printer	EPSON	РНОТО ЕХЗ	CFNH234850		
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-
Loop Antenna	EMCO	6502	00042960	2014-08-22	2015-08-21
ESPI Test Receiver	R&S	ESI26	838786/013	2014-08-22	2015-08-21
3m OATS			N/A	2014-08-21	2015-08-20
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2014-08-23	2015-08-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2014-08-23	2015-08-22
Power meter	Anritsu	ML2487A	6K00003613	2014-08-22	2015-08-21
Power sensor	Anritsu	MA2491A	32263	2014-08-22	2015-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2014-08-23	2015-08-22
LISN	AFJ	LS16C	10010947251	2014-08-21	2015-08-20
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2014-08-22	2015-08-21
9*6*6 Anechoic			N/A	2014-08-21	2015-08-20
EMI Test Receiver	RS	ESCS30	100139	2014-08-22	2015-08-21

Report No: FCC1504057-01 Page 7 of 102

Date: 2015-04-15



#### 3. DESCRIPTION OF TEST MODES

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

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

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

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

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

Channel	Frequency (MHz)
Low	2422
Mid	2437
High	2452

IEEE 802.11n HT40 mode: 65Mbps data rate (worst case) was 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.

Date: 2015-04-15



#### 3.0 **Technical Details**

#### 3.1 **Summary of test results**

Standard	Test Type	Result	Notes
ECC 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

#### 4.0 **EUT Modification**

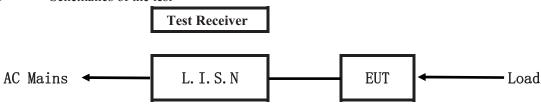
No modification by Shenzhen Timeway Technology Consulting Co., Ltd

Date: 2015-04-15



#### 5. **Power Line Conducted Emission Test**

#### 5.1 Schematics of the test

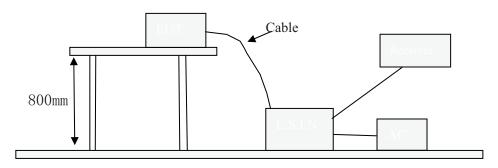


**EUT: Equipment Under Test** 

#### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 -2013 and ANSI C63.4:2009

Test Voltage: 120V~, 60Hz Block diagram of Test setup



#### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### **EUT** A.

Device	Manufacturer	Model	FCC ID
TABLET PC	SHENZHEN HARMONY TECHNOLOGY CO., LTD	PLT1077G	2ACJAPLT1077G

#### В. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

#### C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable

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 an will not, without the consent 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

Report No: FCC1504057-01 Page 10 of 102

Date: 2015-04-15



#### 5.4 **EUT Operating Condition**

Operating condition is according to ANSI C63.10-2013.

- Α Setup the EUT and simulators as shown on follow
- В 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	Class A Lim	its (dB µ V)	Class B Limits (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 ~ 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.

Date: 2015-04-15



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

**EUT Operating Environment** 

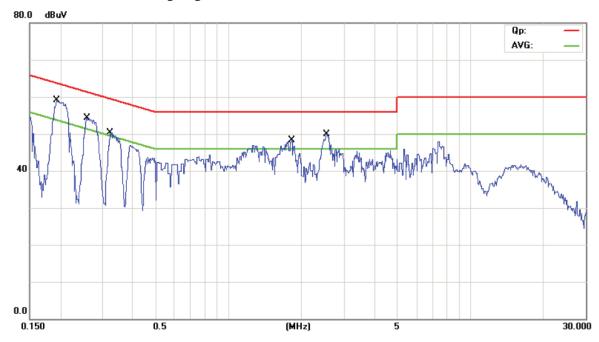
Atmospheric Pressure: 101 KPa Temperature: 26°C Humidity: 65%RH

**EUT set Condition: Charging and Keep WIFI Transmitting** 

**Equipment Level: Class B** 

**Results: PASS** 

Please refer to following diagram for individual



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1941	44.80	11.05	55.85	63.86	-8.01	QP	
2	0.1941	15.00	11.05	26.05	53.86	-27.81	AVG	
3	0.2597	39.40	11.12	50.52	61.44	-10.92	QP	
4	0.2597	15.60	11.12	26.72	51.44	-24.72	AVG	
5	2.5370	32.50	12.51	45.01	56.00	-10.99	QP	
6	2.5370	18.20	12.51	30.71	46.00	-15.29	AVG	
7	1.8035	32.20	12.22	44.42	56.00	-11.58	QP	
8	1.8035	15.60	12.22	27.82	46.00	-18.18	AVG	
9	0.3268	33.50	11.19	44.69	59.53	-14.84	QP	
10	0.3268	17.00	11.19	28.19	49.53	-21.34	AVG	

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 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

Date: 2015-04-15



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

**EUT Operating Environment** 

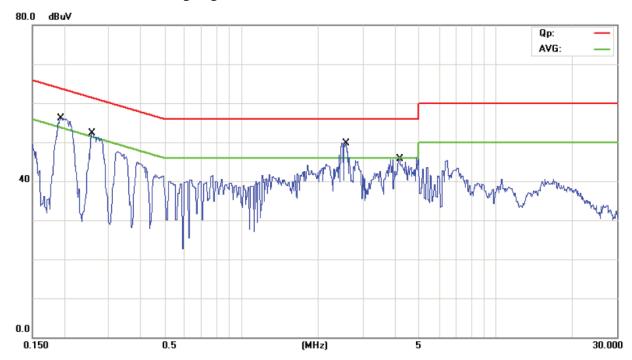
Atmospheric Pressure: 101 KPa Temperature: 26°C Humidity: 65%RH

**EUT set Condition: Charging and Keep WIFI Transmitting** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



No. N	Лk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1927	42.50	11.05	53.55	63.92	-10.37	QP	
2		0.1927	12.30	11.05	23.35	53.92	-30.57	AVG	
3 *	k	2.5644	33.20	12.53	45.73	56.00	-10.27	QP	
4		2.5644	20.10	12.53	32.63	46.00	-13.37	AVG	
5		0.2590	37.10	11.12	48.22	61.46	-13.24	QP	
6		0.2590	15.10	11.12	26.22	51.46	-25.24	AVG	
7		4.1774	24.60	13.17	37.77	56.00	-18.23	QP	
8		4.1774	12.20	13.17	25.37	46.00	-20.63	AVG	

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 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

Report No: FCC1504057-01 Page 13 of 102

Date: 2015-04-15



#### **6** Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10 –2013. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013 and ANSI C63.4-2009.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=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.

# Block diagram of Test setup Distance = 3m Computer Pre –Amplifier Furn-table Receiver

- 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.

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

Report No: FCC1504057-01 Page 14 of 102

Date: 2015-04-15



#### 6.4 Radiated Emission Limit

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

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

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a 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.

Page 15 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### Test result

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

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

**EUT set Condition: Charging and Keep WIFI Transmitting** 

**Results: Pass** 

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
197.920	35.60	Н	43.50
396.000	36.63	Н	46.00
128.000	35.90	Н	43.50
45.160	33.13	V	40.00
396.000	40.20	V	46.00
178.240	35.49	V	43.50

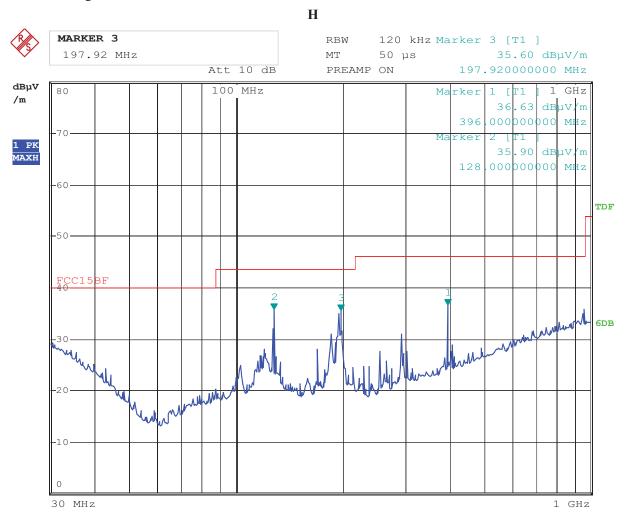
Page 16 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### Test Figure:



10.APR.2015 16:03:59 Date:

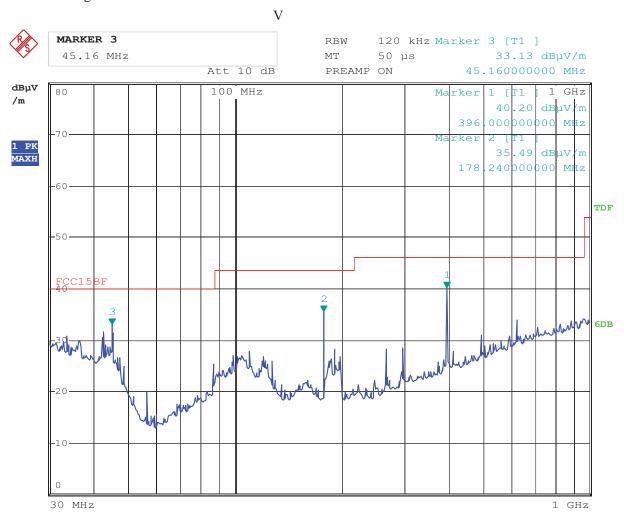
Page 17 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### Test Figure:



10.APR.2015 16:00:04 Date:

Report No: FCC1504057-01 Page 18 of 102

Date: 2015-04-15



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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4824.00	47.78 (PK)	Н	74(Peak)/ 54(AV)
4824.00	49.32 (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)

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode 54Mbps

Date: 2015-04-15



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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4874.00	48.15 (PK)	V	74(Peak)/ 54(AV)
4874.00	50.20 (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)

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

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode 54 Mbps

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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
4924	49.08 (PK)	Н	74(Peak)/ 54(AV)
4924	48.64 (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)

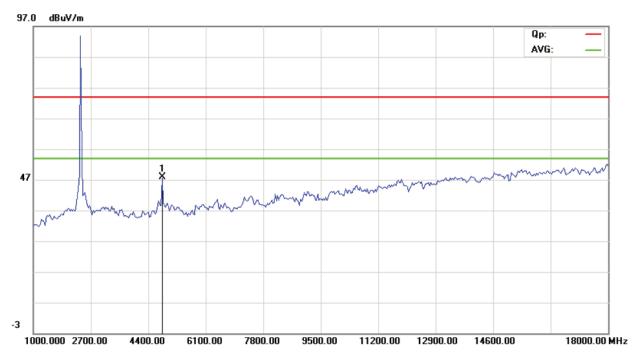
- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode at 54 Mbps

Date: 2015-04-15

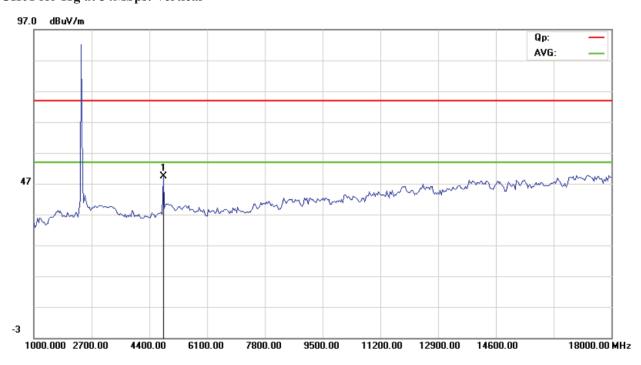


Please refer to the following test plots for details:

## CH01 for 11g at 54Mbps: Horizontal



## CH01 for 11g at 54Mbps: Vertical



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

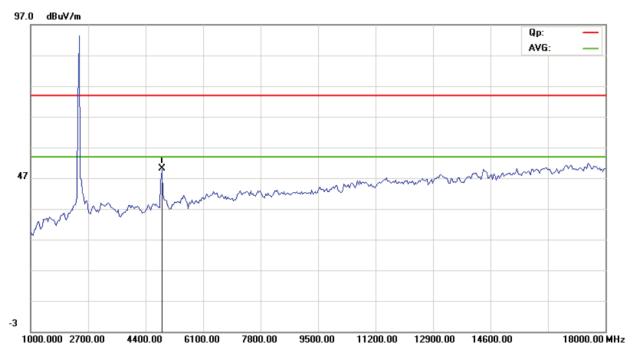
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it 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 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

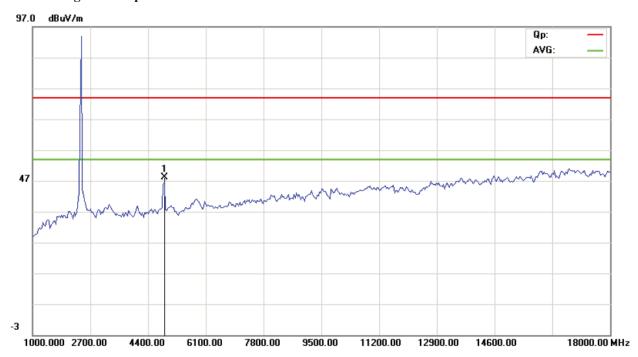
Date: 2015-04-15



## CH06 for 11g at 54Mbps: Vertical



# CH06 for 11g at 54Mbps: Horizontal



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

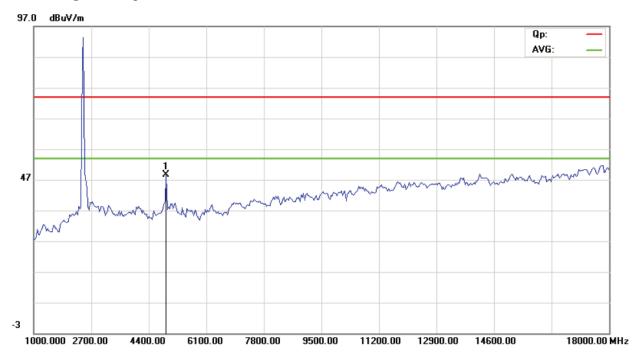
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced 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 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

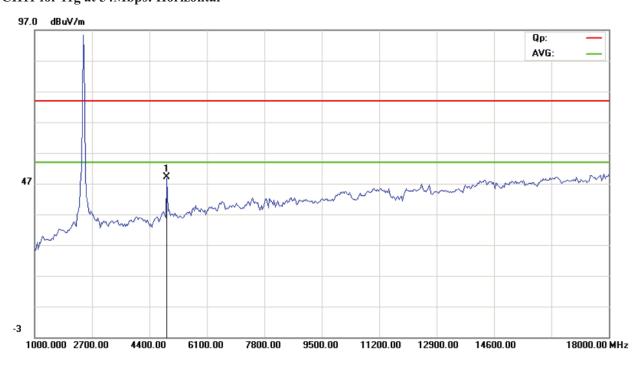
Date: 2015-04-15



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



## CH11 for 11g at 54Mbps: Horizontal



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

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 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

Date: 2015-04-15



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

Frequency (MHz)	Level@3m (dB \u03bc V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4824.00	48.32 (PK)	Н	74(Peak)/ 54(AV)
4824.00	47.09 (PK)	V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16684		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

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

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode 11Mbps

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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
4874.00	46.01 (PK)	Н	74(Peak)/ 54(AV)
4874.00	47.58 (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)

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode 11Mbps

Report No: FCC1504057-01 Page 24 of 102

Date: 2015-04-15



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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4924	47.79 (PK)	Н	74(Peak)/ 54(AV)
4924	48.63 (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)

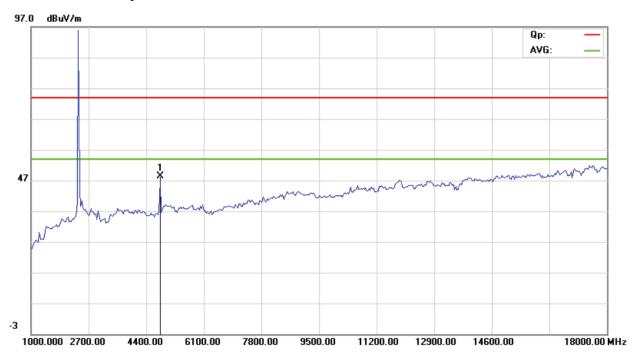
- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode at 11Mbps

Date: 2015-04-15

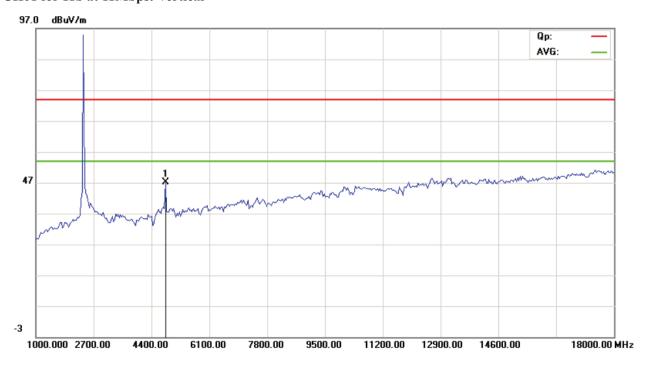


Please refer to the following test plots for details:

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



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



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

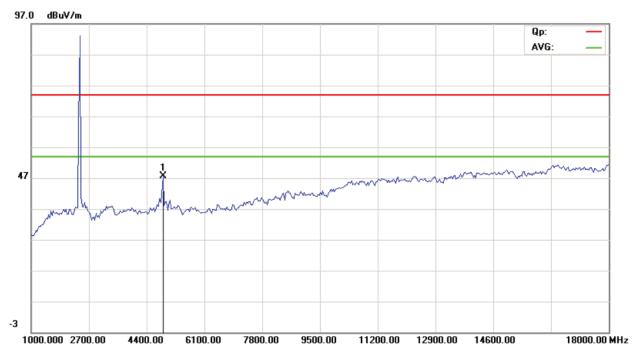
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it 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 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

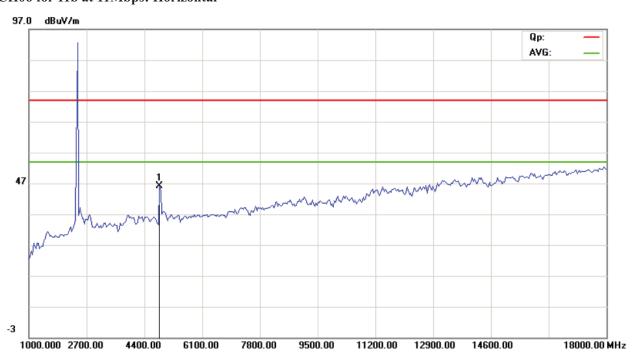
Date: 2015-04-15



## CH06 for 11b at 11Mbps: Vertical



## CH06 for 11b at 11Mbps: Horizontal



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

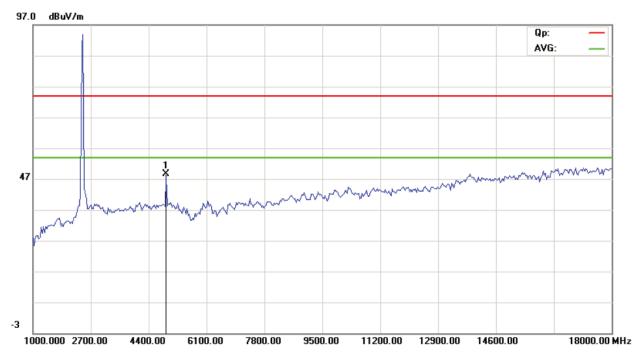
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . 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 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

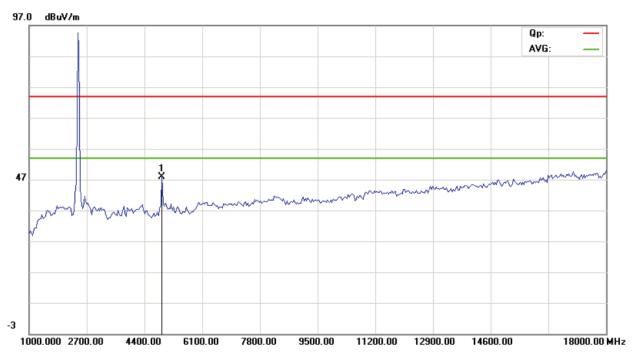
Date: 2015-04-15



## CH11 for 11b at 11Mbps: Vertical



## CH11 for 11b at 11Mbps: Horizontal



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

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 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

Date: 2015-04-15



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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4824.00	48.85 (PK)	Н	74(Peak)/ 54(AV)
4824.00	48.59 (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)

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

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT20) mode 65Mbps

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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
4874.00	46.54 (PK)	Н	74(Peak)/ 54(AV)
4874.00	48.19 (PK)	V	74(Peak)/ 54(AV)
7311.00	-	H/V	74(Peak)/ 54(AV)
9748.00	-	H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT20) mode 65Mbps

Report No: FCC1504057-01 Page 29 of 102

Date: 2015-04-15



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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4924	47.19 (PK)	Н	74(Peak)/ 54(AV)
4924	47.64 (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)

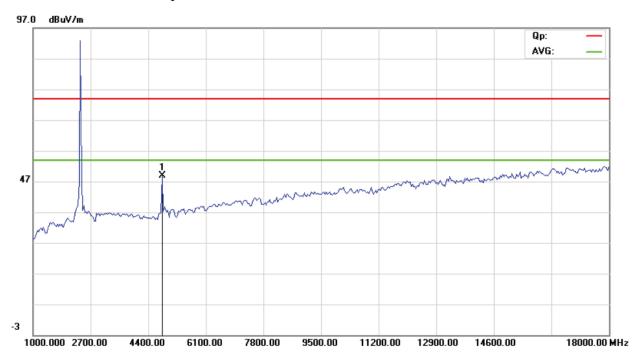
- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT20) mode 65Mbps

Date: 2015-04-15

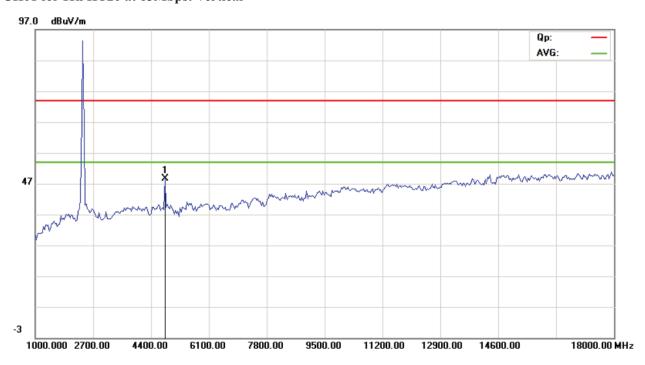


Please refer to the following test plots for details:

### CH01 for 11n HT20 at 65Mbps: Horizontal



# CH01 for 11n HT20 at 65Mbps: Vertical



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

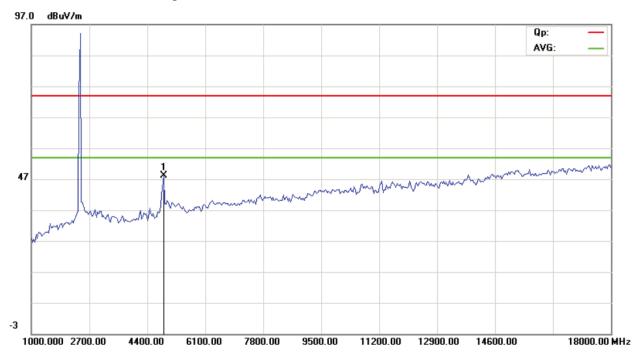
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it 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 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

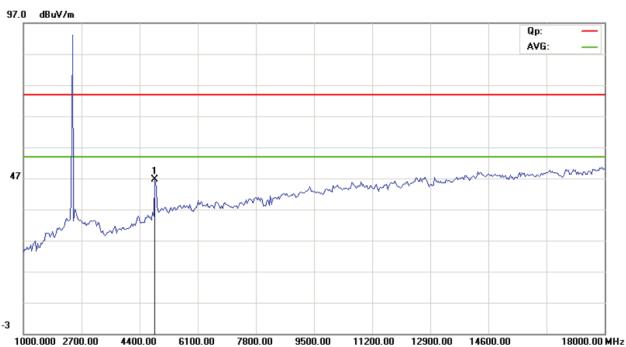
Date: 2015-04-15



## CH06 for 11n HT20 at 65Mbps: Vertical



## CH06 for 11n HT20 at 65Mbps: Horizontal



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

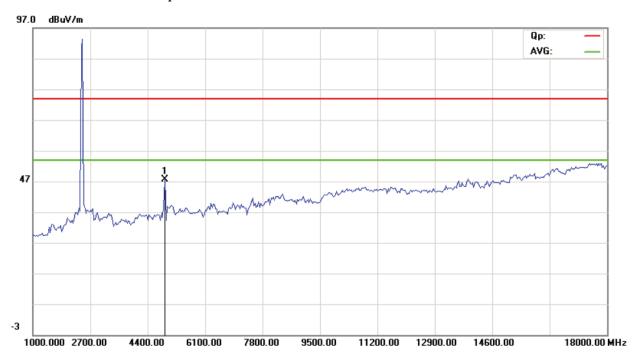
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it 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 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

Date: 2015-04-15



### CH11 for 11n HT20 at 65Mbps: Vertical



## CH11 for 11n HT20 at 65Mbps: Horizontal



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

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 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 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

Date: 2015-04-15



### Operation Mode: Transmitting under CH01 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4844.00	47.51 (PK)	Н	74(Peak)/ 54(AV)
4844.00	48.27 (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)

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 65Mbps

## Operation Mode: Transmitting under CH04 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
4874.00	47.66 (PK)	Н	74(Peak)/ 54(AV)
4874.00	48.53 (PK)	V	74(Peak)/ 54(AV)
7311.00	-	H/V	74(Peak)/ 54(AV)
9748.00	-	H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT40) mode 65Mbps

Report No: FCC1504057-01 Page 34 of 102

Date: 2015-04-15



### Operation Mode: Transmitting under CH07 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4904	46.32 (PK)	Н	74(Peak)/ 54(AV)
4904	46.58 (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)

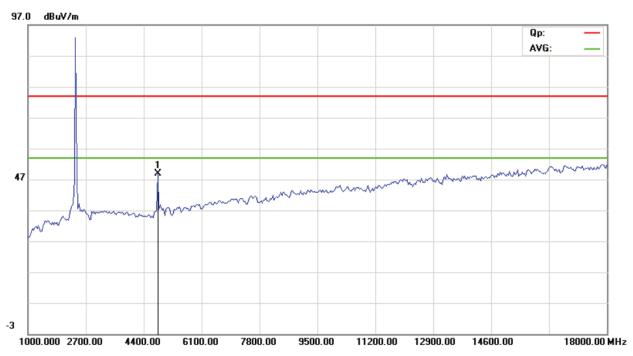
- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT40) mode 65Mbps

Date: 2015-04-15

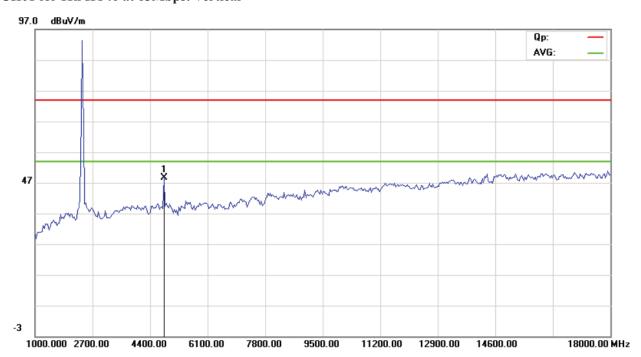


Please refer to the following test plots for details:

## CH01 for 11n HT40 at 65Mbps: Horizontal



# CH01 for 11n HT40 at 65Mbps: Vertical



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

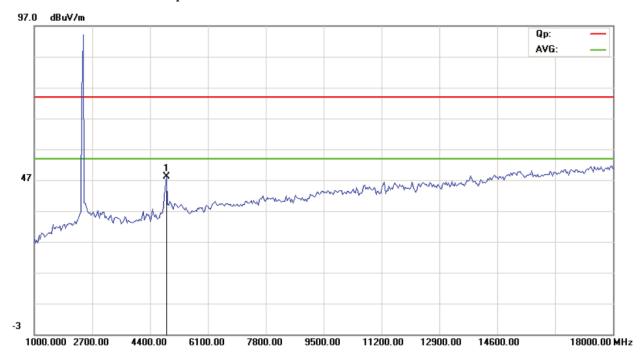
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it 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 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

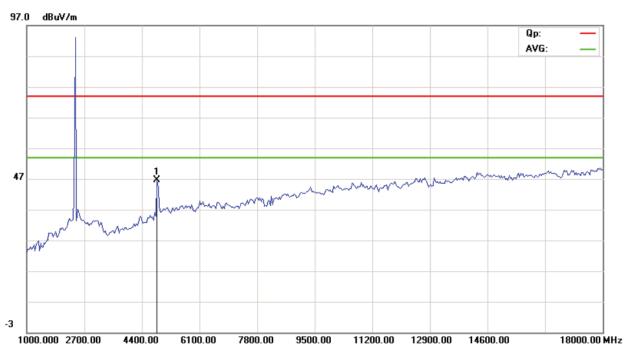
Date: 2015-04-15



### CH04 for 11n HT40 at 65Mbps: Vertical



## CH04 for 11n HT40 at 65Mbps: Horizontal



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 correspondence with any third party concerning the contents of the report.

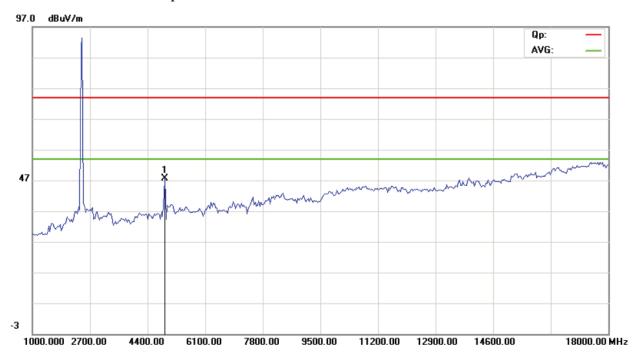
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to

Report No: FCC1504057-01

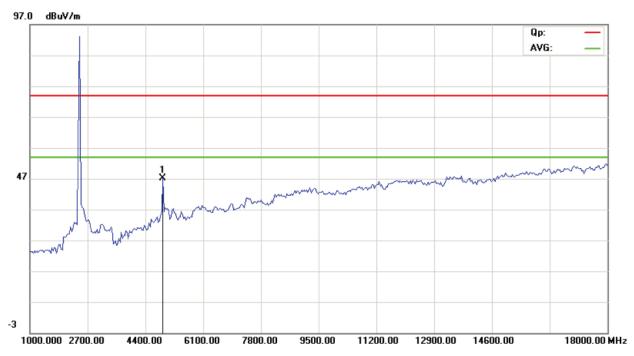
Date: 2015-04-15



## CH07 for 11n HT40 at 65Mbps: Vertical



## CH07 for 11n HT40 at 65Mbps: Horizontal



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

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 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.

Page 38 of 102

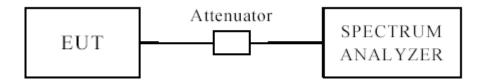
Report No: FCC1504057-01

Date: 2015-04-15



### 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 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

Report No: FCC1504057-01 Page 39 of 102

Date: 2015-04-15



## 6dB Occupied Bandwidth

EUT		TA	BLET PC		Model		PLT	1077G
Mode		8	302.11b		Input Vol	tage	DC3.7V	
Temperat	ure	24	24 deg. C, Humidity		,	56% RH		
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		andwidth Hz)		mum Limit MHz)	Pass/ Fail
1		2412	1	10	10.04		0.5	Pass
6		2437	1	10	.04		0.5	Pass
11		2462	1	10	.04		0.5	Pass
1		2412	11	9.	32		0.5	Pass
6		2437	11	9.	9.32		0.5	Pass
11		2462	11	9.	9.32		0.5	Pass

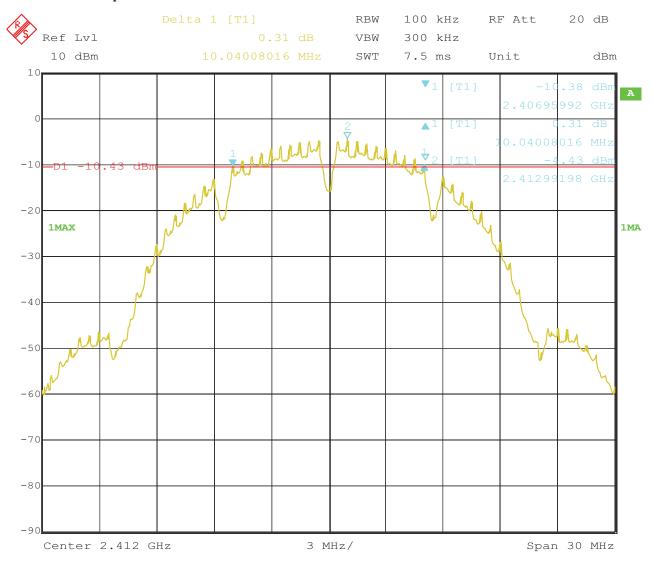
Page 40 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 1. 802.11b at 1Mbps of CH01



Date: 14.APR.2015 11:52:39

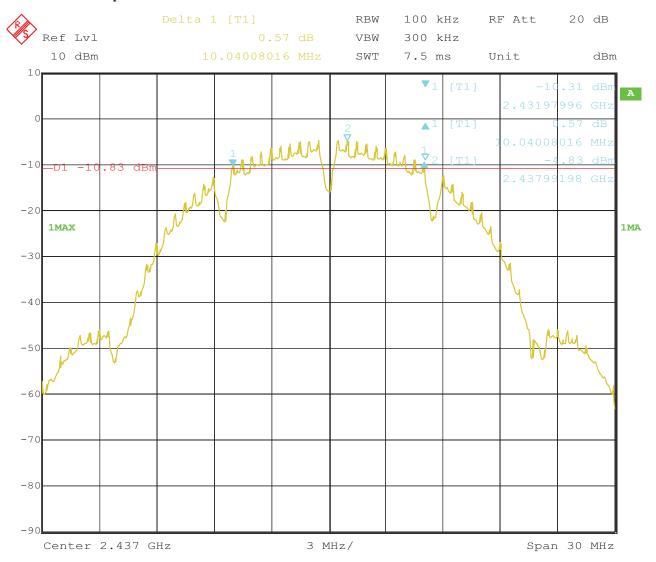
Page 41 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 2. 802.11b at 1Mbps of CH06



Date: 14.APR.2015 12:02:53

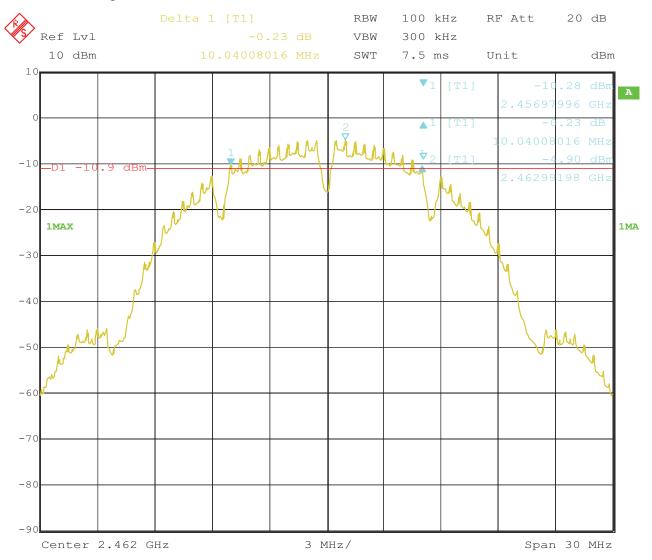
Page 42 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 3. 802.11b at 1Mbps of CH11



Date: 14.APR.2015 12:05:47

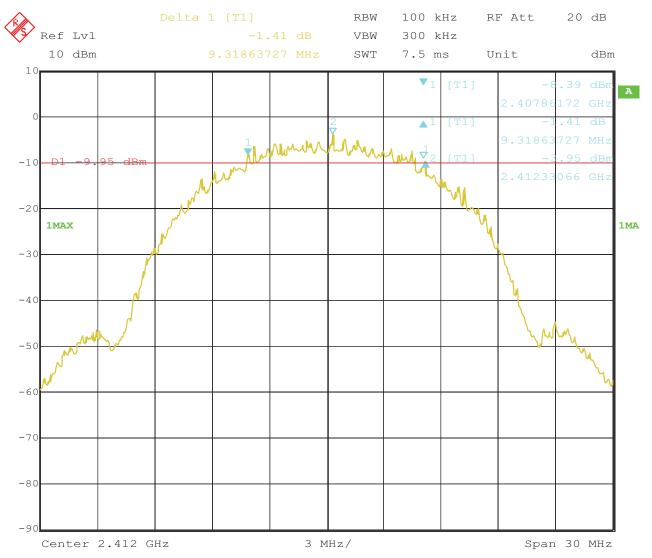
Page 43 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 4. 802.11b at 11Mbps of CH01



Date: 14.APR.2015 11:57:01

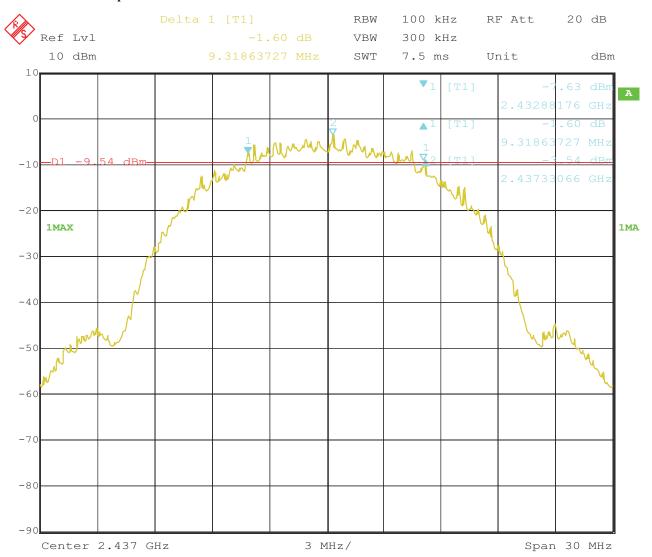
Page 44 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 5. 802.11b at 11Mbps of CH06



Date: 14.APR.2015 11:58:56

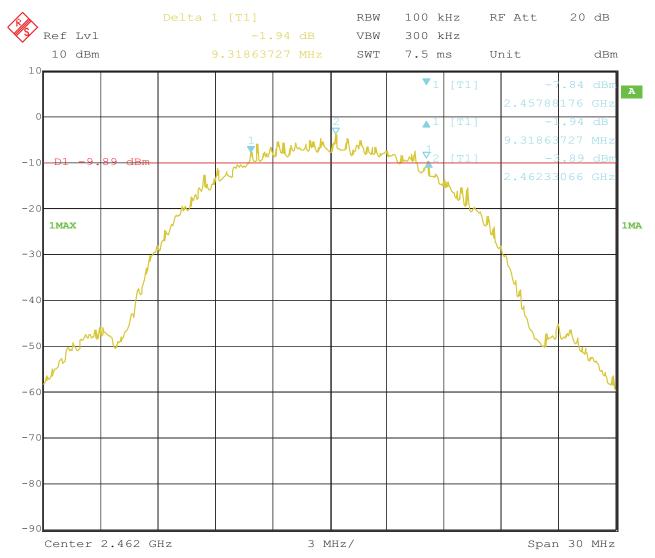
Page 45 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 6. 802.11b at 11Mbps of CH11



Date: 14.APR.2015 12:10:27 Report No: FCC1504057-01 Page 46 of 102

Date: 2015-04-15



## 6dB Occupied Bandwidth

EUT		TA	BLET PC		Model		PL	T1077G
Mode		8	302.11g		Input Vol	tage	Γ	OC3.7V
Temperat	ure	24	4 deg. C,		Humidity			6% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		andwidth Hz)		num Limit MHz)	Pass/ Fail
1		2412	54	16	.41		0.5	Pass
6		2437	54	16	.41		0.5	Pass
11		2462	54	16	.41		0.5	Pass

Page 47 of 102

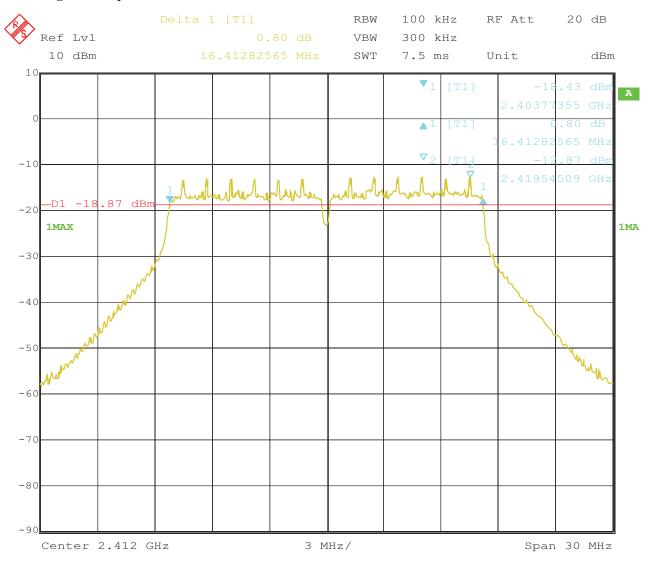
Report No: FCC1504057-01

Date: 2015-04-15



#### **Test Plots:**

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



14.APR.2015 11:55:17 Date:

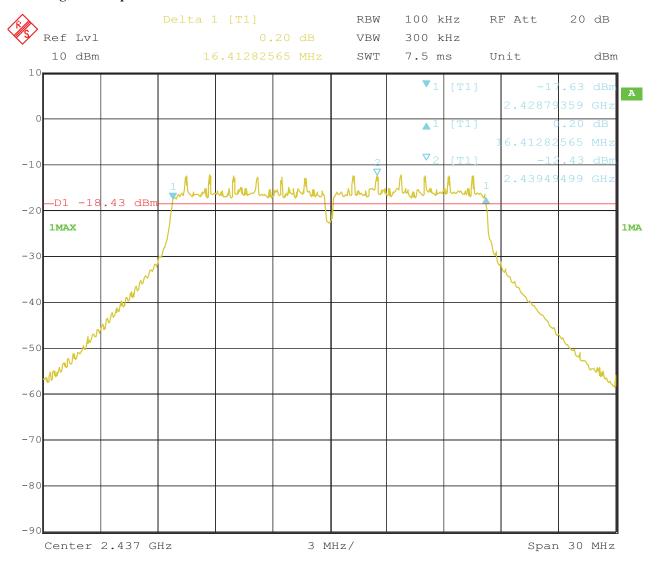
Page 48 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 2. 802.11g at 54Mbps of CH06



Date: 14.APR.2015 12:01:12

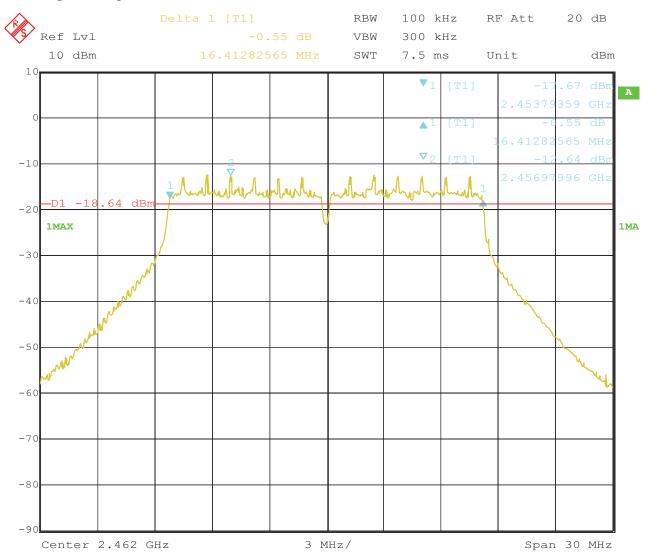
Page 49 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 3. 802.11g at 54Mbps of CH11



Date: 14.APR.2015 12:08:20 Report No: FCC1504057-01 Page 50 of 102

Date: 2015-04-15



## 6dB Occupied Bandwidth

EUT		TA	BLET PC		Model		PLT1	1077G
Mode		802	.11n HT20		Input Vol	tage	DC	3.7V
Temperat	ure	24	4 deg. C,		Humidity		56%	% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		ndwidth Hz)		num Limit MHz)	Pass/ Fail
1		2412	65M	17	.56		0.5	Pass
6		2437	65M	17	.56	0.5		Pass
11		2462	65M	17	.56		0.5	Pass

Page 51 of 102

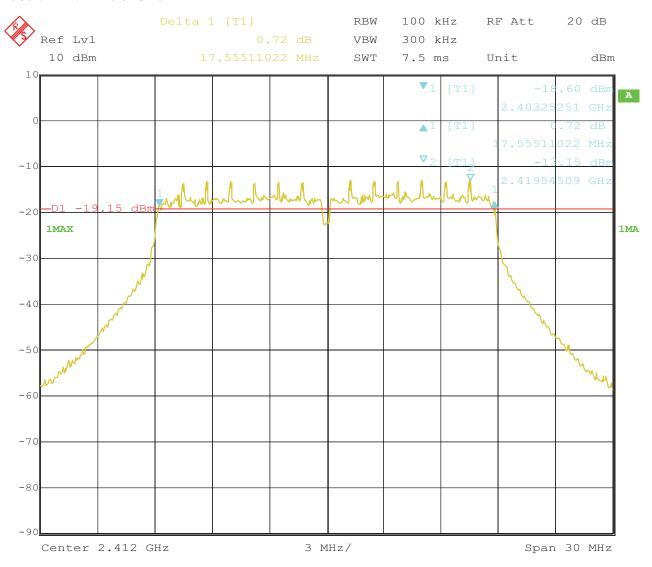
Report No: FCC1504057-01

Date: 2015-04-15



#### **Test Plots:**

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



14.APR.2015 12:17:25 Date:

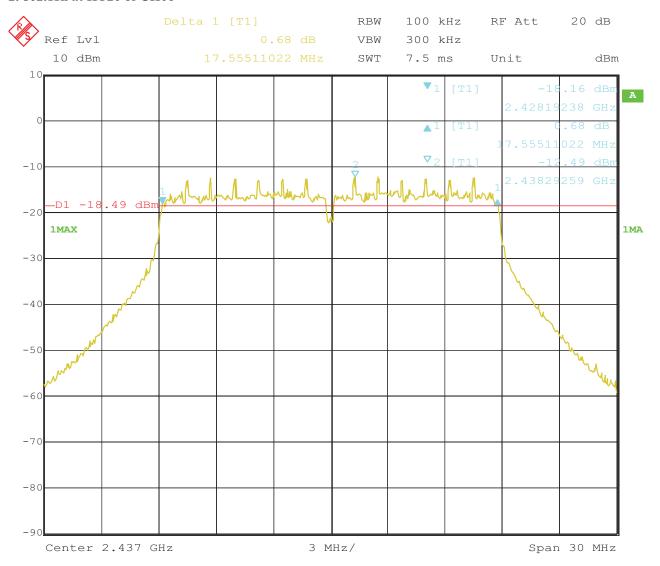
Page 52 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### 2. 802.11n at HT20 of CH06



Date: 14.APR.2015 12:14:54

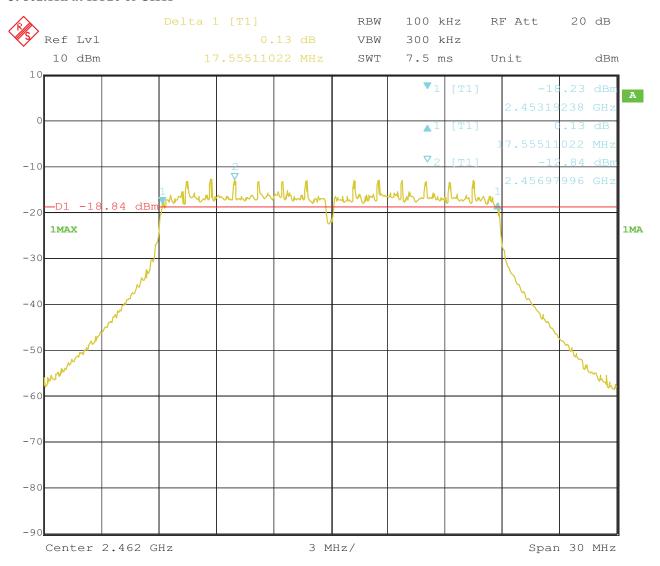
Page 53 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### 3. 802.11n at HT20 of CH11



Date: 14.APR.2015 12:12:39 Report No: FCC1504057-01 Page 54 of 102

Date: 2015-04-15



## 6dB Occupied Bandwidth

EUT		TA	BLET PC		Model		PLT:	1077G
Mode		802	.11n HT40		Input Vol	tage	DC	3.7V
Temperat	ure	24	4 deg. C,		Humidity		56%	% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		ndwidth Hz)		mum Limit MHz)	Pass/ Fail
1		2422	65M	35	.39		0.5	Pass
4		2437	65M	35	.39		0.5	Pass
7		2452	65M	35	.39		0.5	Pass

Page 55 of 102

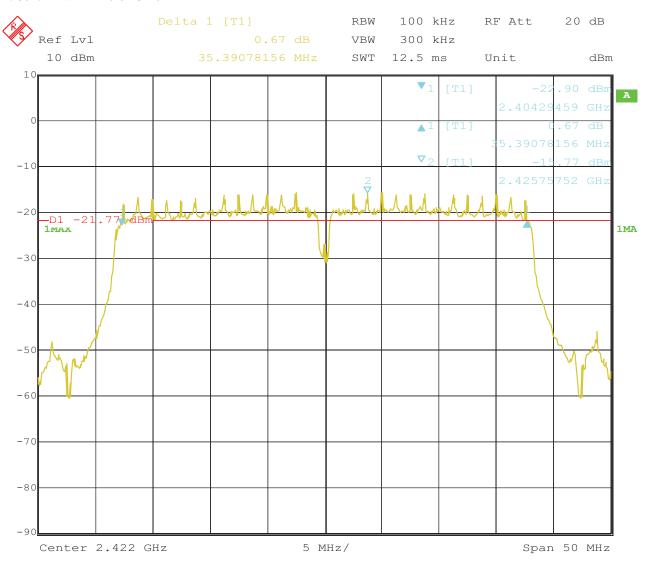
Report No: FCC1504057-01

Date: 2015-04-15



#### **Test Plots:**

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



14.APR.2015 12:19:58 Date:

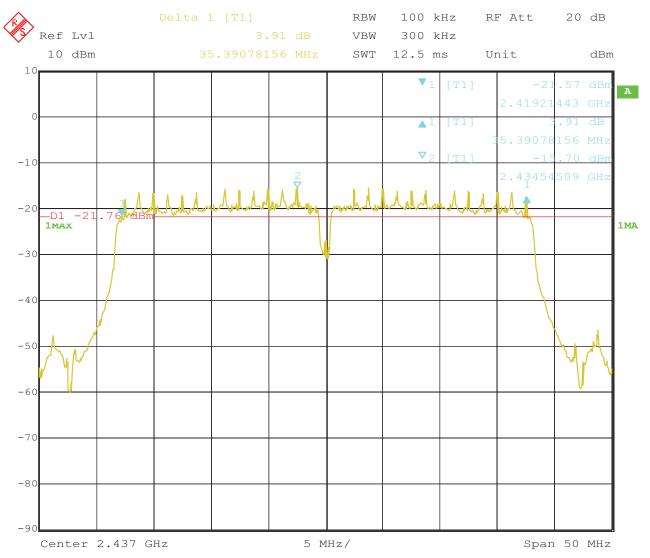
Page 56 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### 2. 802.11n at HT40 of CH04



Date: 14.APR.2015 12:22:20

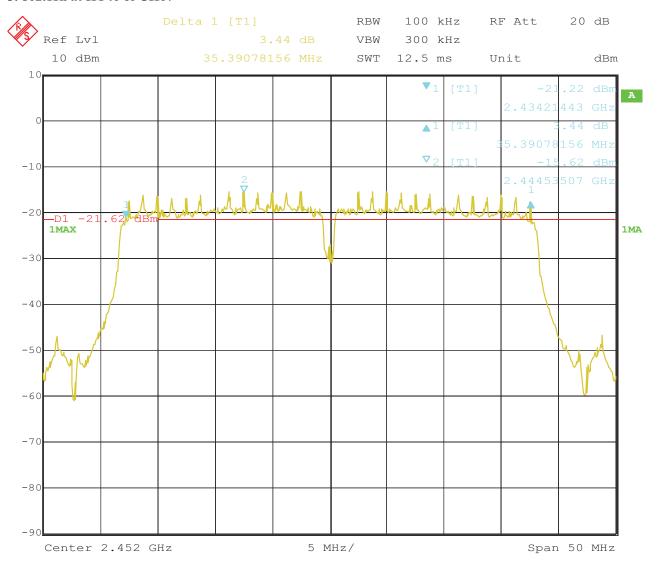
Page 57 of 102

Report No: FCC1504057-01

Date: 2015-04-15



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



Date: 14.APR.2015 12:24:26 Report No: FCC1504057-01

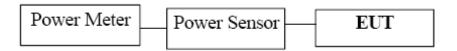
Date: 2015-04-15



Page 58 of 102

## 8. Maximum Output Power

## 8.1 Test Setup



## 8.2 Limits of Maximum Peak Output Power

The Maximum Output Power Measurement is 30dBm.

#### **8.3 Test Procedure**

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

Note: the Peak power was measured

Report No: FCC1504057-01

Date: 2015-04-15



## **8.4Test Results**

EUT		TABLE	T PC	M	odel		PLT1077G
Mode		802.1	.1b	Input	nput Voltage DC		DC3.7V
Temperat	Temperature 24 d		g. C, Humidity		56% RH		
Channel	Channel Frequency (MHz)		Max. Power Output (dBm)		Power (dB		Pass/ Fail
1	1 2412		9.02		30	)	Pass
6	6 2437		9.56		30		Pass
11 2462		9.47		30	)	Pass	

Note: 1. At finial test to get the worst-case emission at 11Mbps 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 PC		M	odel		PLT1077G	
Mode		802.1	.1g	Input	Voltage		DC3.7V	
Temperat	ure	24 deg. C,		Humidity			56% RH	
Channel	Channel Frequency (MHz)		Max. Power Output (dBm)		Power (dB		Pass/ Fail	
1	1 2412		5.98		30	)	Pass	
6	6 2437		6.46		30		Pass	
11	11 2462		6.32		30	)	Pass	

Note: 1. At finial test to get the worst-case emission at 54Mbps 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

Page 60 of 102

Report No: FCC1504057-01

Date: 2015-04-15



EUT		TABLE	T PC	M	odel		PLT1077G	
Mode	Mode 802.11n		(HT20) Inpu		t Voltage		DC3.7V	
Temperat	Temperature 2		g. C,	Humidity			56% RH	
Channel	Ch	annel Frequency	Max. Power Output		Power	Limit	Pass/ Fail	
Chamici		(MHz)	(dBm)		(dB	m)		
1	1 2412		6.05		30		Pass	
6	6 2437		6.64		30		Pass	
11	11 2462		6.55		30	)	Pass	

Note: 1. At finial test to get the worst-case emission at 65Mbps 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		TABLE	T PC	M	odel		PLT1077G	
Mode	Mode 802.11n		(HT40)	Input Voltage		DC3.7V		
Temperat	Temperature 24 d		g. C, Hum		midity		56% RH	
Channel	Channel Frequency		Max. Power Output		Power		Pass/ Fail	
		(MHz)	(dBm)		(dB	m)		
1	1 2422		6.00		30		Pass	
4	4 2437		6.29		30		Pass	
7	7 2452		6.33		30	)	Pass	

Note: 1. At finial test to get the worst-case emission at 65Mbps of 11n HT40 for CH01, CH04 and CH7

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

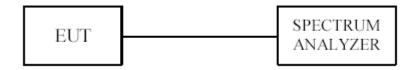
Report No: FCC1504057-01 Page 61 of 102

Date: 2015-04-15



# 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.

Report No: FCC1504057-01 Page 62 of 102

Date: 2015-04-15



#### 9.4Test Result

EUT		TABLE	T PC	M	odel		PLT1077G
Mode		802.11b 11Mbps		Input Voltage			DC3.7V
Temperature		24 deg	24 deg. C,		Humidity		56% RH
Channel	Cha	annel Frequency (MHz)	Final RF Power Level (dBm)		Maximur (dB		Pass/ Fail
			11Mbp	S			
1	1 2412		-15.21		8		Pass
6 2437		-14.28		8		Pass	
11 2462		-14.87		8		Pass	

EUT		TABLE	Т РС	M	odel		PLT1077G
Mode		802.11b 1Mbps		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity			56% RH
Channel	Ch	annel Frequency	Final RF Pc	wer	Maximum Limit		Pass/ Fail
Chamici		(MHz)	Level in (dBm)		(dB	m)	
			1Mbps	ı			
1	1 2412		-16.02		8		Pass
6 2437		-15.15		8		Pass	
11		2462	-15.53		8		Pass

Page 63 of 102

Report No: FCC1504057-01

Date: 2015-04-15



EUT		TABLE	T PC	M	odel		PLT1077G
Mode		802.11g 54Mbps		Input Voltage		DC3.7V	
Temperature		24 deg	g. C,	Humidity		56% RH	
Channel	Channel Frequency		Final RF Power		Maximum Limit		Pass/ Fail
Chamilei		(MHz)	Level in (dl	Bm)	(dB	m)	
			54Mbps	S			
1	1 2412		-23.05		8		Pass
6 2437		-23.06		8		Pass	
11 2462		-22.59		8		Pass	

EUT		TABLET PC			odel		PLT1077G
Mode		802.11n HT20 65Mbps		Input Voltage			DC3.7V
Temperature		24 deg	24 deg. C,		Humidity		56% RH
Channel	Cha	annel Frequency	Final RF Power		Maximum Limit		Pass/ Fail
Chamici		(MHz)	Level (dB	m)	(dB	m)	
			HT20				
1	1 2412		-21.89		8		Pass
6 2437		-21.66		8		Pass	
11		2462	-21.25		8		Pass

EUT		TABLET PC		Model		PLT1077G	
Mode		802.11n HT40 65Mbps		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Cha	annel Frequency (MHz)	Final RF Power Level (dBm)		Maximum Limit (dBm)		Pass/ Fail
HT40							
1	2422		-25.07		8		Pass
4	2437		-25.26		8		Pass
7	2452		-25.40		8		Pass

Page 64 of 102

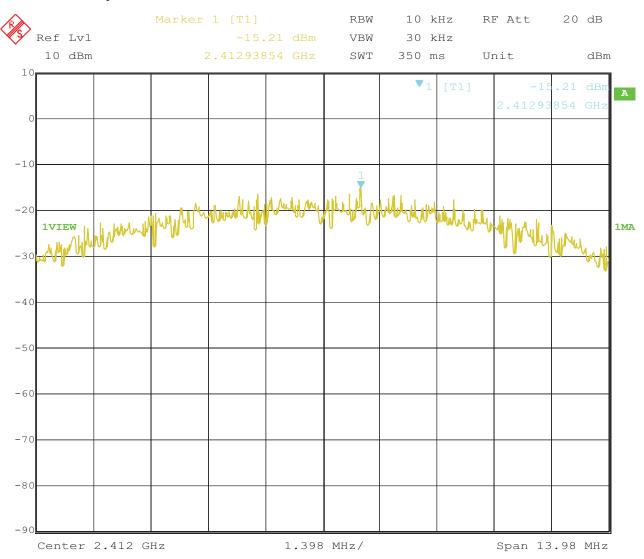
Report No: FCC1504057-01

Date: 2015-04-15



## 9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01



14.APR.2015 15:30:17 Date:

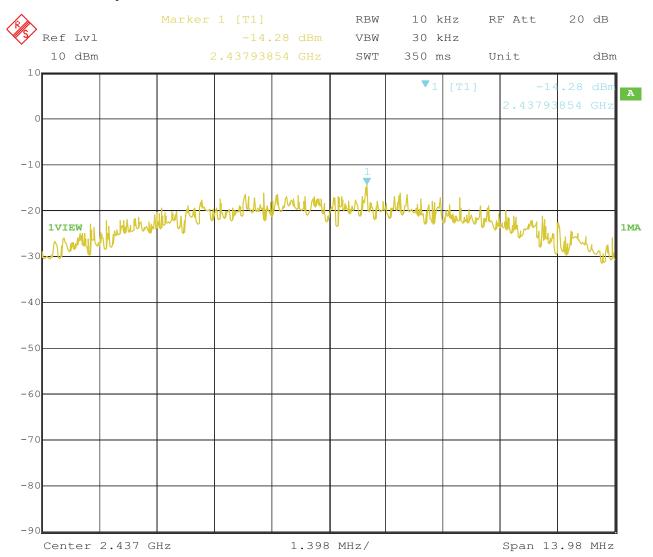
Page 65 of 102

Report No: FCC1504057-01

Date: 2015-04-15



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



Date: 14.APR.2015 15:31:13

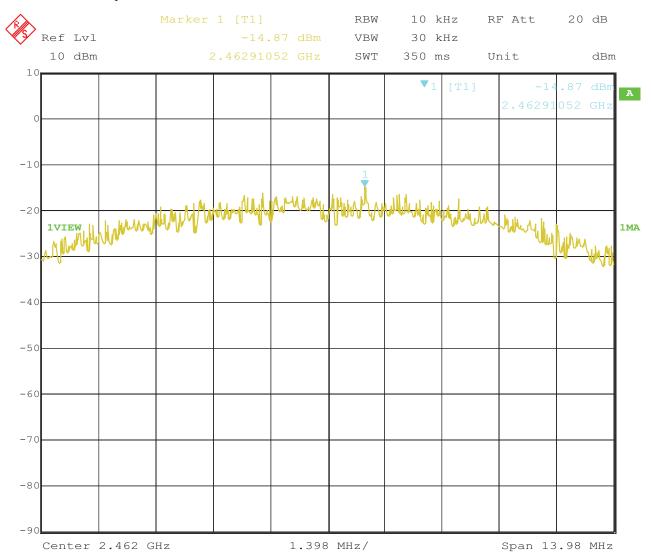
Page 66 of 102

Report No: FCC1504057-01

Date: 2015-04-15



### 3. 802.11b at 11Mbps of CH11



Date: 14.APR.2015 15:32:14

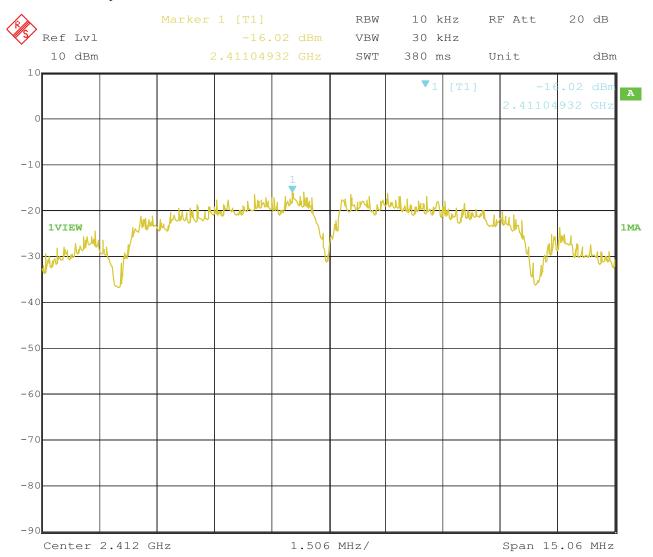
Page 67 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 4. 802.11b at 1Mbps of CH1



Date: 14.APR.2015 15:29:25

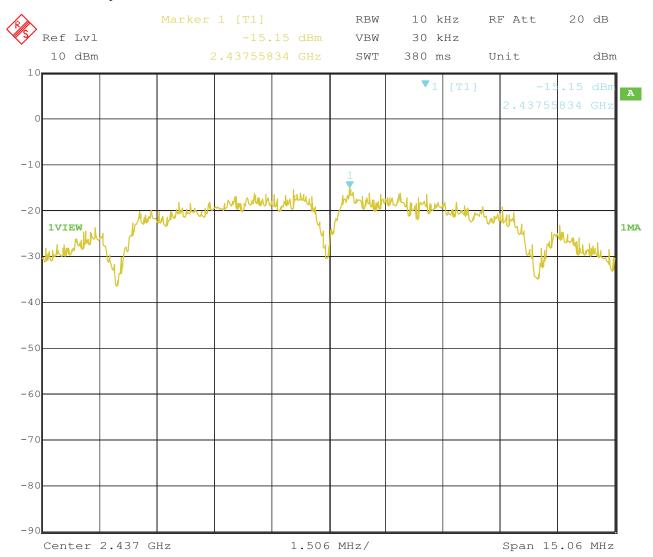
Page 68 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 5. 802.11b at 1Mbps of CH6



Date: 14.APR.2015 15:21:23

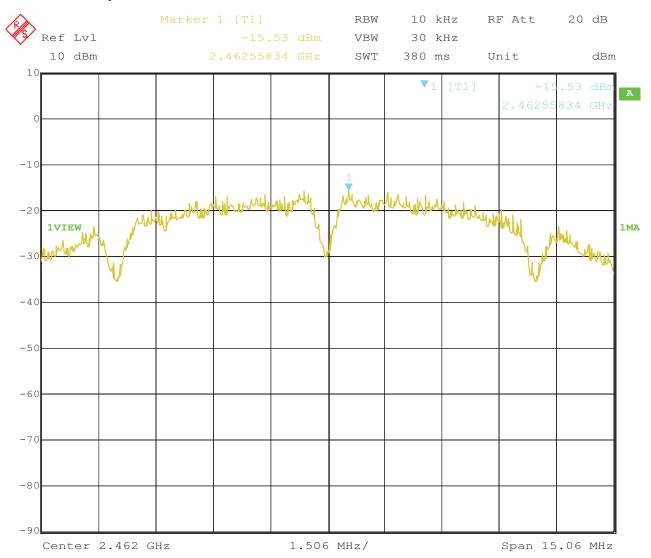
Page 69 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 6. 802.11b at 1Mbps of CH11



Date: 14.APR.2015 15:21:56

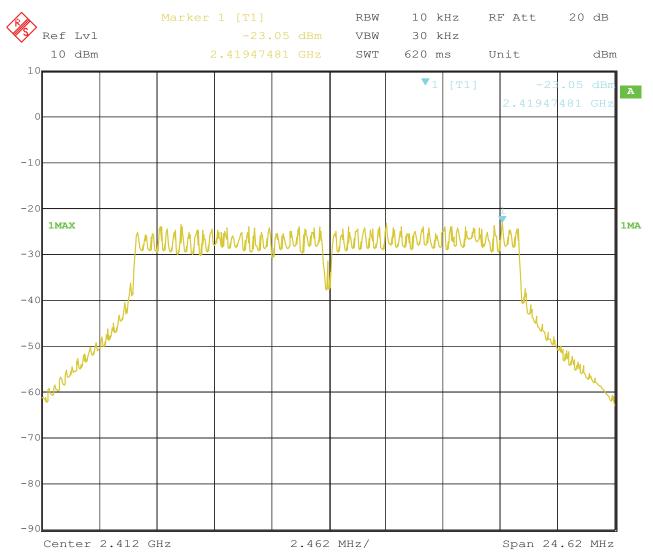
Page 70 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 7. 802.11g at 54Mbps of CH1



14.APR.2015 15:25:47 Date:

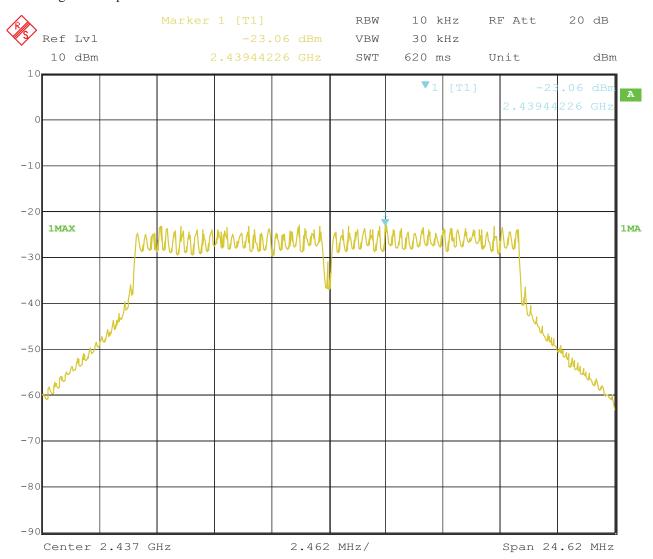
Page 71 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 8. 802.11g at 54Mbps of CH6



14.APR.2015 15:24:34 Date:

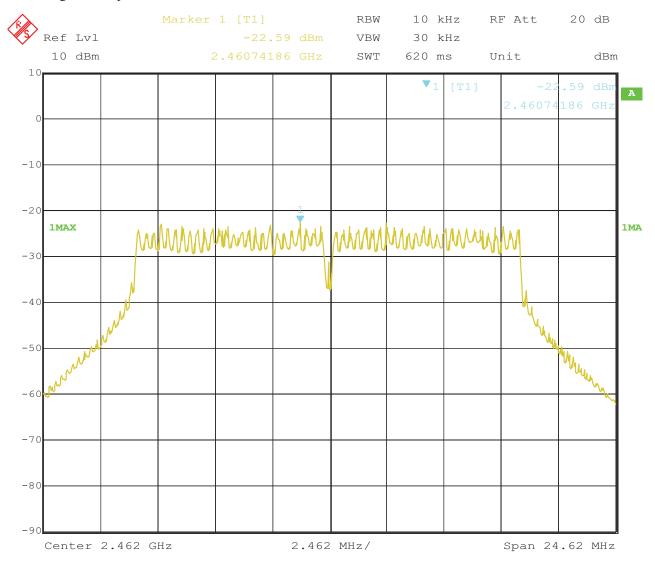
Page 72 of 102

Report No: FCC1504057-01

Date: 2015-04-15



## 9. 802.11g at 54Mbps of CH11



14.APR.2015 15:23:08 Date:

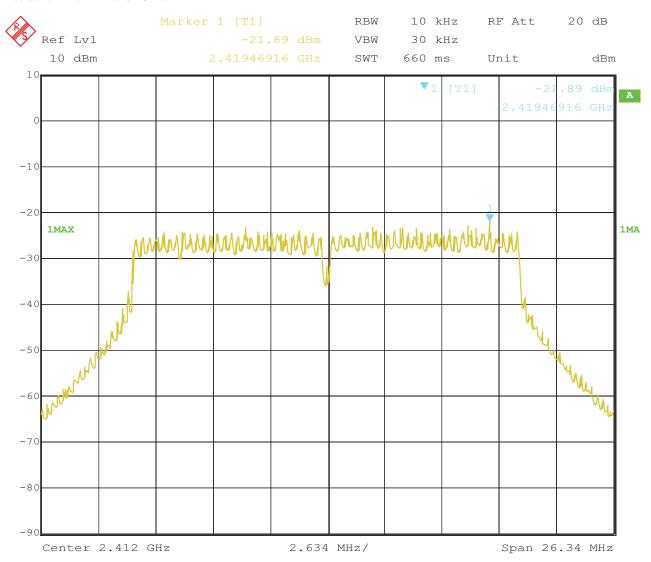
Page 73 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### 10. 802.11n at HT20 of CH01



14.APR.2015 15:13:54 Date:

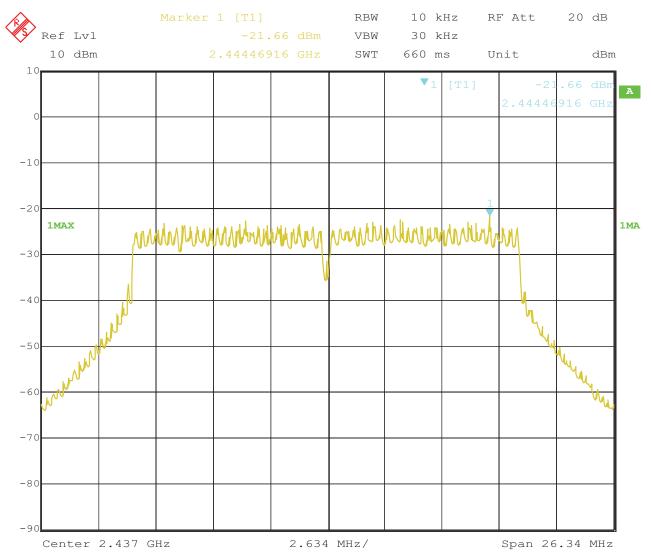
Page 74 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### 11. 802.11n at HT20 of CH06



14.APR.2015 15:15:31 Date:

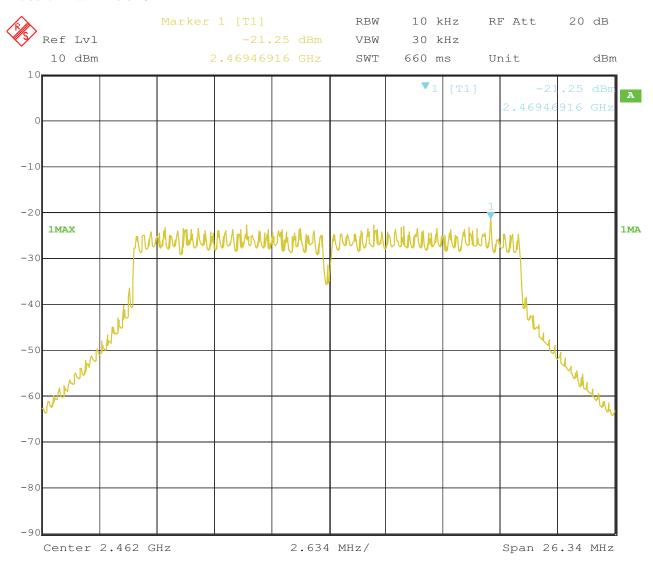
Page 75 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### 12. 802.11n at HT20 of CH11



14.APR.2015 15:17:46 Date:

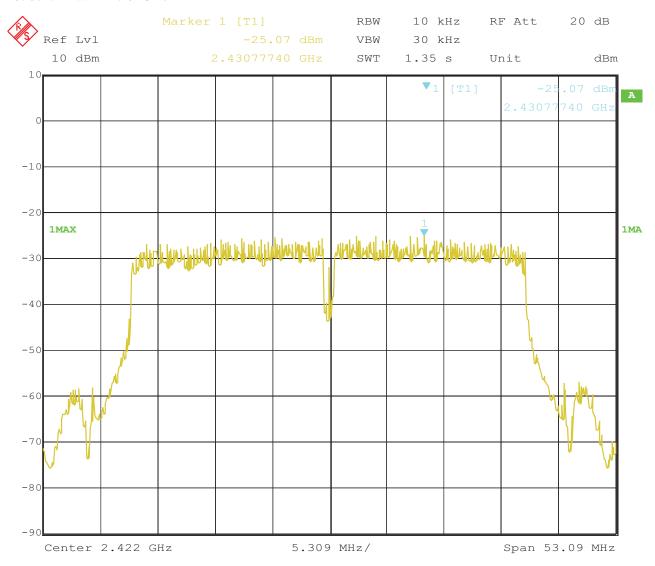
Page 76 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### 13. 802.11n at HT40 of CH01



14.APR.2015 15:12:36 Date:

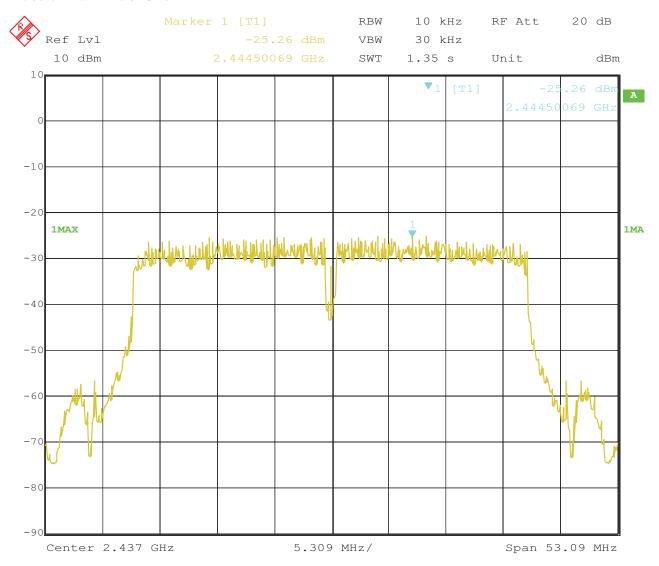
Page 77 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### 14. 802.11n at HT40 of CH04



Date: 14.APR.2015 15:09:31

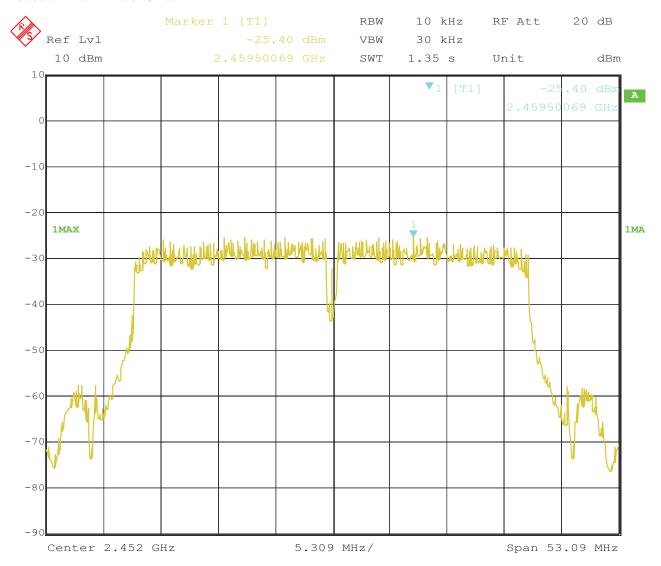
Page 78 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### 15. 802.11n at HT40 of CH07



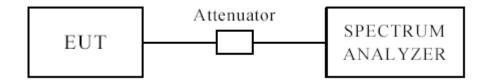
Date: 14.APR.2015 15:08:19 Report No: FCC1504057-01 Page 79 of 102

Date: 2015-04-15



### 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 –30dB 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=3MHz and RMS 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.

Date: 2015-04-15



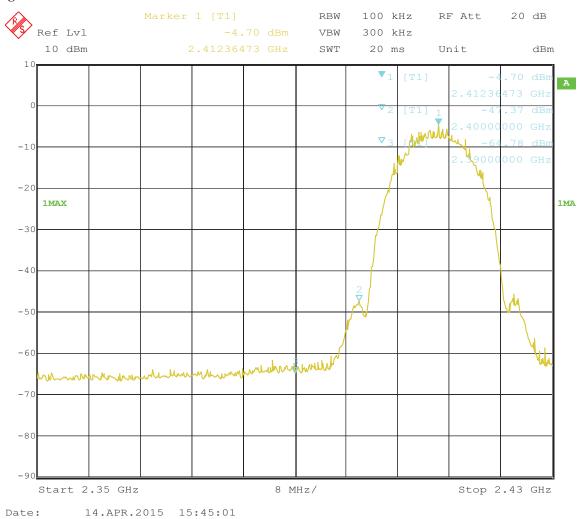
#### For 802.11b mode

## CH01 at 11Mbps

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

EUT	TABLET PC		Model	PLT1077G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24	l deg. C,	Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBµV/m)	50.7	T ::4	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$
2390	PK (dBμV/m)	38.1	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	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.

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 an will not, without the consent 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

Page 81 of 102

Report No: FCC1504057-01

Date: 2015-04-15

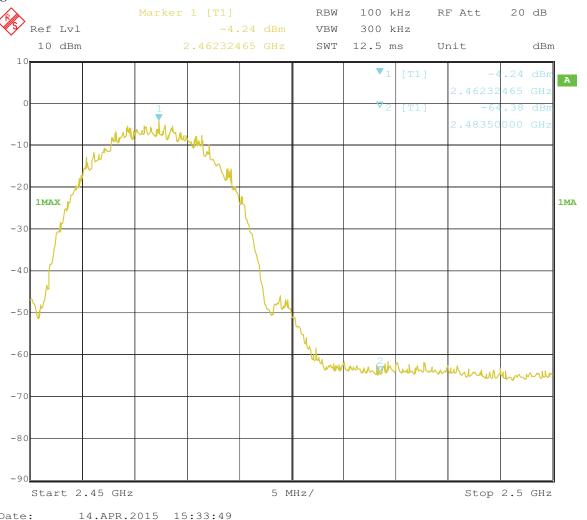


#### CH11 at 11Mbps

#### Band-edge and Restricted band Measurement

EUT	TABLET PC		Model	PLT1077G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	42.2	T * *4	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	54(dBμV/m)

# **Test Figure:**



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

Page 82 of 102

Report No: FCC1504057-01

Date: 2015-04-15



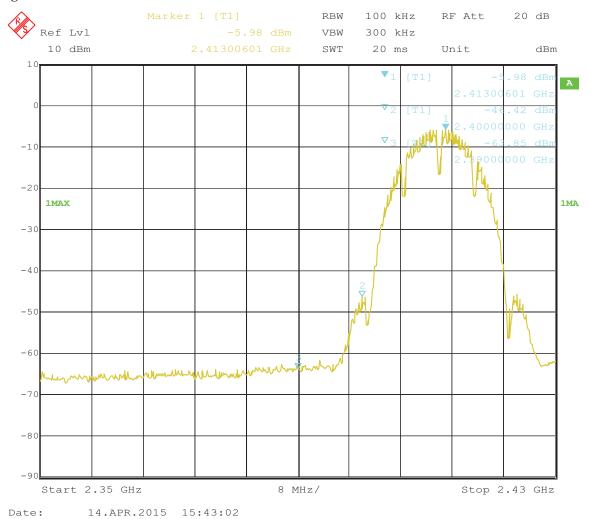
#### For 802.11b mode

CH01 at 1Mbps

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

EUT	TABLET PC		Model	PLT1077G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBµV/m)	48.9	Timit	74(dBμV/m)
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	38.2	Limit	74(dBμV/m)
	AV (dBμV/m)		Limit	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.

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 an will not, without the consent 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

Page 83 of 102

Report No: FCC1504057-01

Date: 2015-04-15

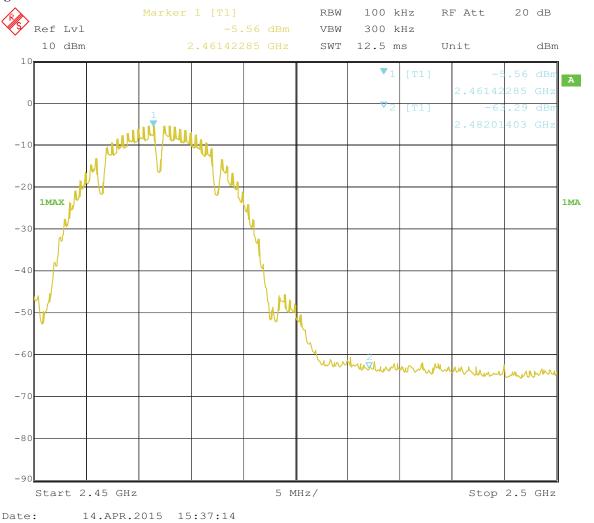


### CH11 at 1Mbps

## Band-edge and Restricted band Measurement

EUT	TABLET PC		Model	PLT1077G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	41.8	T * *4	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	54(dBμV/m)

# **Test Figure:**



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

Date: 2015-04-15



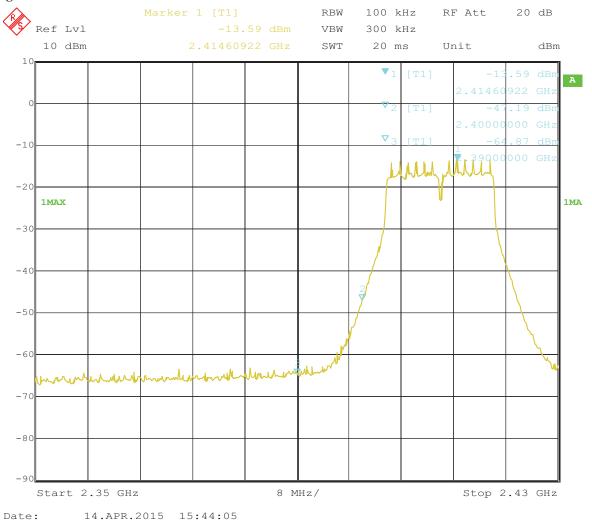
#### For 802.11g mode

CH01 at 54Mbps

10.4 Band-edge and Restricted band Measurement

EUT	TABLET PC		Model	PLT1077G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBμV/m)	56.4	T imit	$74(dB\mu V/m)$
	AV (dBμV/m)	37.2	Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	40.7	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Lillit	$54(dB\mu V/m)$

## **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.

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 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

Page 85 of 102

Report No: FCC1504057-01

Date: 2015-04-15

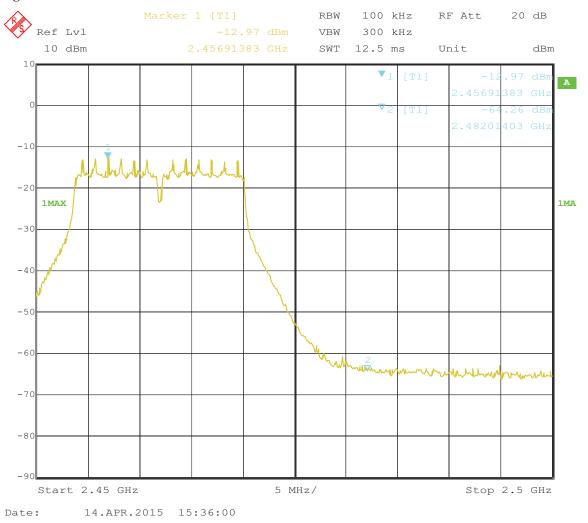


#### CH11 at 54Mbps

## 10.4 Band-edge and Restricted band Measurement

EUT	TABLET PC		Mod	lel	PLT1077G
Mode	Keeping Transmitting		Input Vo	oltage	DC3.7V
Temperature	24 deg. C,		Humi	dity	56% RH
Test Result:	Pass		Detec	ctor	PK
2483.5	PK (dBµV/m)	44.2	T,	$74(dB\mu V/m)$	
	AV (dBμV/m)		Limit	54(dBµV/m)	

# **Test Figure:**



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

Date: 2015-04-15



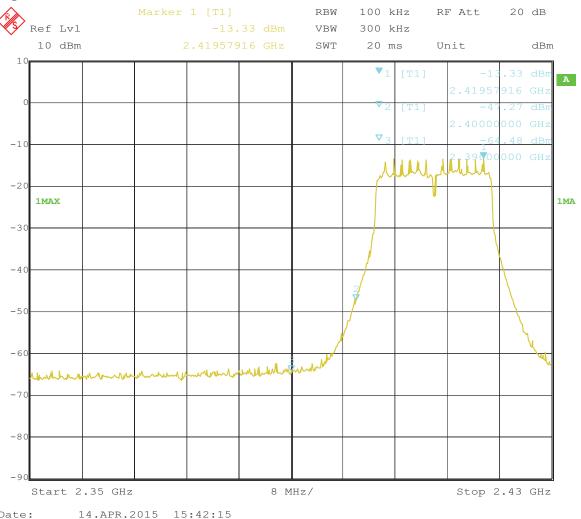
## For 802.11n (HT20) mode

CH01 at 65Mbps

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

EUT	TABLET PC		Model	PLT1077G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBμV/m)	57.6	T imait	$74(dB\mu V/m)$
	AV (dBμV/m)	38.3	Limit	$54(dB\mu V/m)$
2390	PK (dBμV/m)	40.7	Limit	74(dBμV/m)
	AV (dBμV/m)		Lillit	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.

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 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

Page 87 of 102

Report No: FCC1504057-01

Date: 2015-04-15

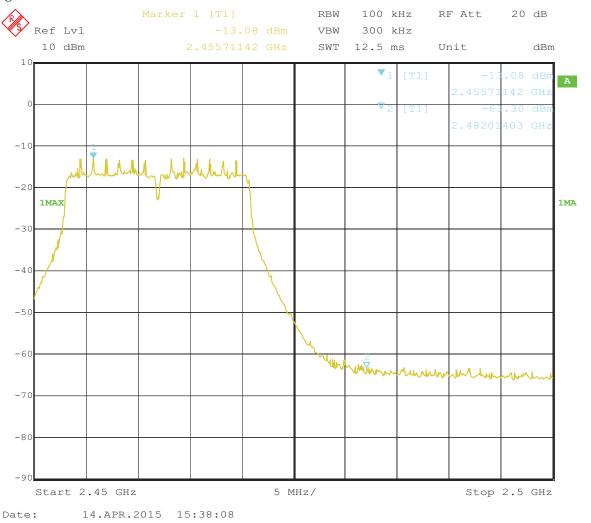


#### CH11 at 65Mbps

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

EUT	TABLET PC		Model	PLT1077G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	46.3	T,	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

# **Test Figure:**



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

Date: 2015-04-15



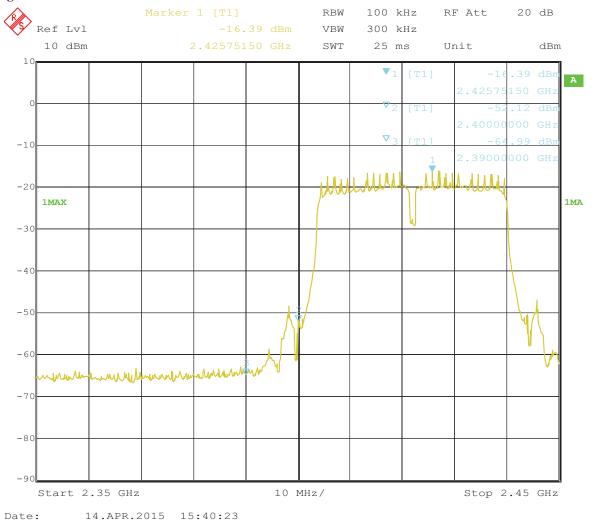
### For 802.11n (HT40) mode

CH01 at 65Mbps

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

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\mathcal{C}$				
Temperature         24 deg. C,         Humidity         56% RH           Test Result:         Pass         Detector         PK           2400         PK (dBμV/m)         58.9         Limit         74(dBμV/m)           AV (dBμV/m)         41.2         54(dBμV/m)         74(dBμV/m)           2390         PK (dBμV/m)         42.5         Limit         74(dBμV/m)	EUT	TABLET PC		Model	PLT1077G
Test Result:       Pass       Detector       PK         2400       PK (dBμV/m)       58.9       Limit       74(dBμV/m)         AV (dBμV/m)       41.2       Limit       54(dBμV/m)         2390       PK (dBμV/m)       42.5       Limit       74(dBμV/m)	Mode	Keeping Transmitting		Input Voltage	DC3.7V
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Temperature	24	deg. C,	Humidity	56% RH
AV (dBμV/m)       41.2       Limit       54(dBμV/m)         2390       PK (dBμV/m)       42.5       Limit       74(dBμV/m)	Test Result:		Pass	Detector	PK
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	2400	PK (dBμV/m)	58.9	T ::4	$74(dB\mu V/m)$
Limit		AV (dBμV/m)	41.2	Limit	54(dBμV/m)
	2390	PK (dBμV/m)	42.5	Limit	74(dBμV/m)
		AV (dBμV/m)		Lillit	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.

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 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

Page 89 of 102

Report No: FCC1504057-01

Date: 2015-04-15

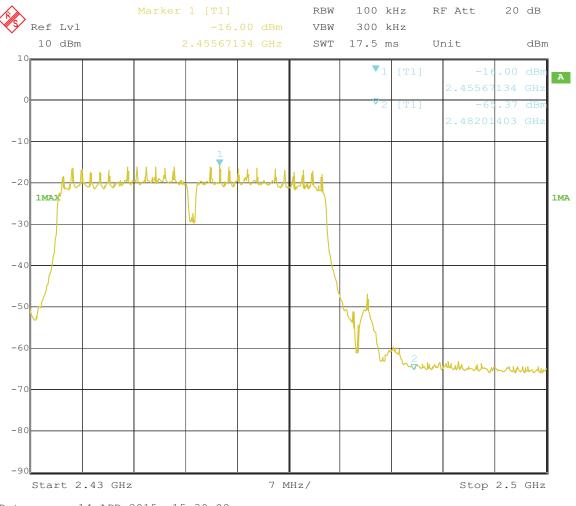


#### CH7 at 65Mbps

## Band-edge and Restricted band Measurement

EUT	TABLET PC		Model	PLT1077G
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	49.8	T ::4	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

# **Test Figure:**



14.APR.2015 15:39:08

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

Date: 2015-04-15



Page 90 of 102

## 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 2.0 dBi.

Report No: FCC1504057-01 Page 91 of 102

Date: 2015-04-15



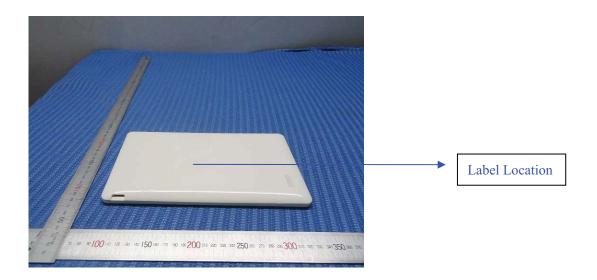
#### 12.0 FCC ID Label

#### FCC ID: 2ACJAPLT1077G

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

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

#### **Mark Location:**



Page 92 of 102

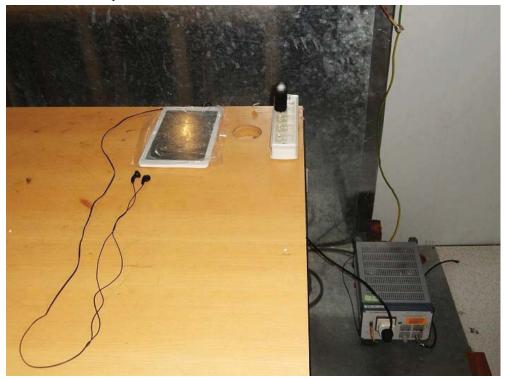
Report No: FCC1504057-01

Date: 2015-04-15



#### 13.0 **Photo of testing**

Conducted Emission Test Setup:



Page 93 of 102

Report No: FCC1504057-01

Date: 2015-04-15



# Radiated Emission Test Setup:





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

This 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 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 reduct event or which may be personated.

Date: 2015-04-15



# Photographs - EUT

Outside view





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

This 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 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 reduct event or which may be personated.

Date: 2015-04-15



Outside view





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

This 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 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 reduct event or which may be personated.

Page 96 of 102

Report No: FCC1504057-01

Date: 2015-04-15



Outside view





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

This 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 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

Page 97 of 102

Report No: FCC1504057-01

Date: 2015-04-15



Outside view





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

This 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 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

Page 98 of 102

Report No: FCC1504057-01

Date: 2015-04-15



#### Outside view

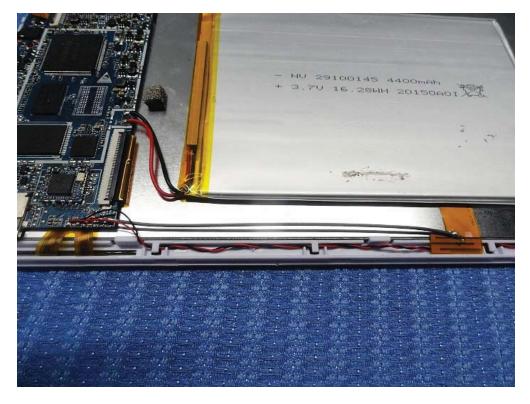


Date: 2015-04-15



Inside view





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

This 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 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 reduct event or which may be personal to the contents.

Date: 2015-04-15



Inside view





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

This 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 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 reduct event or which may be personal to the contents.

Page 101 of 102

Report No: FCC1504057-01

Date: 2015-04-15



Inside view





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

This 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 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 reduct event or which may be personal to the contents.

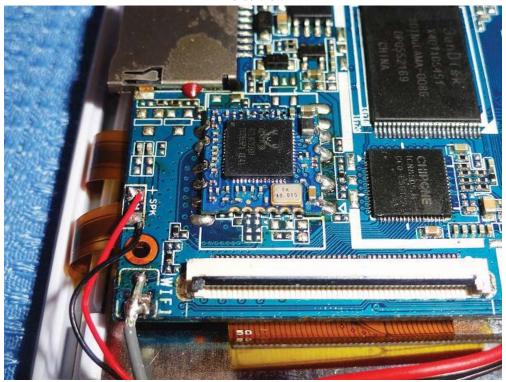
Page 102 of 102

Report No: FCC1504057-01

Date: 2015-04-15



Inside view



End of the report