

FCC 47 CFR PART 15 SUBPART C TEST REPORT

For

Applicant: Bright Win Technology Co., Ltd.

Address: Huafeng Technology Building, Bao'an, Shenzhen, China

Product Name: 7" Internet Tablet

M7088, M766, M7066, M7166, M798, M728, M7188, M7288, M7688,

Model Name: M799, M7099, DA788, M868, M8088, M8016

Brand Name: DOPO

FCC ID: BPO-DOPO-M7088

Report No.: MTE/DAL/D12101609

Date of Issue: Nov. 13, 2012

Issued by: Most Technology Service Co., Ltd.

No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan,

Address : Shenzhen, Guangdong, China

Tel: 86-755-8617 0306

Fax: 86-755-8617 0310

The report consists 57 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by MOST. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver.

TABLE OF CONTENTS

1.	VERIFICATION OF CONFORMITY	4
2.	GENERAL INFORMATION	5
	Product Information	
2.2 2.3	Objective Test Standards and Results	ი6 მ
	Environmental Conditions	
	MEASUREMENT UNCERTAINTY	
	TEST FACILITY	
	est Conditions	
	Description of Test Modes	
	able of Parameters of Text Software Setting	
	TEST EQUIPMENT LIST	
	TEST EQUIPMENT LIST	
	SUPPORT EQUIPMENT	
	47 CFR Part 15 C 15.247 Requirements6dB Bandwidth	
	Definition	
	2 Limit	
5.1.	3 Test Configuration	11
5.1.4	Test Procedure	11
5.1.	Test Result	11
5.2	Peak Output Power	17
5.2.	Definition	17
5.2.2	2 Limit	17
5.2.	3 Test Configuration	17
5.2.	Test Procedure	17
5.2.	Test Result	17
5.3	Conducted Spurious Emission	19
5.3.	Definition	19
5.3.2	2 Test Description	19
5.3.		
	Band Edge	
5.4.		
5.4.2	č	
5.4.		
	Power Spectral Density (PSD)	
5.5.		
5.5.2		
5.5.4	č	
5.5.	3 Test Description	32
5.5.4	Test Configuration	32

PHOT	PHOTOGRAPHS OF TEST SETUP			
APPE	APPENDIX 1			
5.7.3	Test Result	43		
5.7.2	Test Description	42		
	Definition			
	adiated Emission			
	Test Result			
5.6.2 T	Test Description	38		
5.6.1	Definition	38		
5.6 Cd	onducted Emission	38		
5.5.6	Test Result	32		
5.5.3	Operation Condition	32		

1. VERIFICATION OF CONFORMITY

Equipment Under Test: 7" Internet Tablet

Brand Name: DOPO

Model Number: M7088

Series Model Number: M766, M7066, M7166, M798, M728, M7188, M7288, M7688, M799, M7099,

DA788, M868, M8088, M8016

FCC ID: BPO-DOPO-M7088

Applicant: Bright Win Technology Co., Ltd.

Huafeng Technology Building, Bao'An, Shenzhen, China

Manufacturer: Bright Win Technology Co., Ltd.

Huafeng Technology Building, Bao'An, Shenzhen, China

Technical Standards: 47 CFR Part 15 Subpart C

 File Number:
 MTE/DAL/D12101609

 Date of test:
 Oct. 30-Nov. 13, 2012

Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by *MOST* for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Prepared by (+ signature):		APPROVED
	Dona Liu	Nov. 02 2012
Review by (+ signature):		
	Elva Wong	Nov. 13, 2012
Approved by (+ signature):		3
	Yvette Zhou	Nov. 13, 2012

2. GENERAL INFORMATION

2.1 Product Information

Description:	7" Internet Tablet		
Model Name:	M7088		
Series Number:	M766, M7066, M7166, M798, M728, M7188, M7288, M7688, M799, M7099, DA788, M868, M8088, M8016		
Model Difference description:	All models are electrically identical, only model name is different.		
Frequency Range:	802.11b/g/n: 2412MHz – 2462MHz		
Number of Channels:	IEEE 802.11b/g/nmode: 11 Channels		
Modulation Technique:	IEEE 802.11b mode: CCK (1, 2, 5.5 and 11 Mpbs) IEEE 802.11g mode: OFDM (6, 9, 12, 18, 24, 36, 48 and 54 Mpbs) 802.11n Standard-20 MHz Channel mode: OFDM (6.5, 13, 19.5,26, 39, 52, 58.5, 65.0Mbps)		
Antenna Type:	Internal Fixed		
Antenna Gain:	2.0dBi		
Power Supply:	DC 5V Adaptor Input AC 100-240V, 50/60Hz DC 3.7V by battery		
Temperature Range:	-10°C ~ +50°C		

NOTE:

1. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

Perform FCC Part 15 Subpart C tests for FCC Marking.

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.247(a)(2)	6dB Bandwidth	PASS	2012/11/02
2	15.247(b)(3)	Peak Output Power	PASS	2012/11/02
3	15.247(d)	conducted spurious emission	PASS	2012/11/02
4	15.247(d)	Band Edge	PASS	2012/11/13
5	15.247(e)	Power Spectral Density	PASS	2012/11/02
6	15.207	Conducted Emission	PASS	2012/10/30
7	15.247(d) 15.205 15.209	Radiated Emission	PASS	2012/10/30

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35°CHumidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

2.5 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

The report uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2,Providing a level of confidence of approximately 95%

- Uncertainty of Conducted Emission, Uc = ±1.8dB

- Uncertainty of Radiated Emission, Uc = ±3.2dB

3. TEST FACILITY

Test Site: Most Technology Service Co., Ltd.

Location: No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen,

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16

requirements.

The FCC Registration Number is 490827.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements

that meet industry regulatory agency and accreditation agency requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of

measurement up to 1GHz.

558074 D01 DTS provides Guidance for Performing Compliance Measurements on Digital Transmission

Meas Guidance v01: Systems (DTS) Operating Under CFR Title 47 15.247

3.2 Test Conditions

The EUT has been tested under normal operating (TX) and standby (RX) condition.

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

3.3 Channel List

Channel List for 802.11b/g/n(20MHz)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	
	(MHz)		(MHz)		(MHz)	
01	2412MHz	05	2432MHz	09	2452MHz	
02	2417MHz	06	2437MHz	10	2457MHz	
03	2422MHz	07	2442MHz	11	2462MHz	
04	2427MHz	08	2447MHz			

3.4 Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level, Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively

Pre-test Mode	Description
Mode 1	802.11b CH01/CH07/CH11
Mode 2	802.11g CH01/CH07/CH11
Mode 3	802.11n(20MHz)CH01/CH07/CH11

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all bit rate of transmitter, the worst data was reported.

3.5 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level, the RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software Version	Test program:N/A		
802.11b	2412MHz	2442MHz	2462MHz
802.11g	2412MHz	2442MHz	2462MHz
802.11n(20MHz)	2412MHz	2442MHz	2462MHz

4. TEST EQUIPMENT LIST

4.1. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1/ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

	10 kHz to 1.0 GHz o				Calibration	Calibration
No.	Equipment	Manufacturer	Model No.	S/N	date	Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14	1 Year
2	Spectrum Analyzer	Agilent	E7405A	US44210471	2012/03/14	1 Year
3	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2012/03/14	1 Year
4	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14	1 Year
5	Terminator	Hubersuhner	50Ω	No.1	2012/03/14	1 Year
6	RF Cable	SchwarzBeck	N/A	No.1	2012/03/14	1 Year
7	Test Receiver	Rohde & Schwarz	ESPI	101202	2012/03/14	1 Year
8	Bilog Antenna	Sunol	JB3	A121206	2012/03/14	1 Year
9	Horn Antenna	TRC	N/A	N/A	2012/03/14	1 Year
10	Cable	Resenberger	N/A	NO.1	2012/03/14	1 Year
11	Cable	SchwarzBeck	N/A	NO.2	2012/03/14	1 Year
12	Cable	SchwarzBeck	N/A	NO.3	2012/03/14	1 Year
13	DC Power Filter	DuoJi	DL2×30B	N/A	2012/03/14	1 Year
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2012/03/14	1 Year
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2012/03/14	1 Year
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14	1 Year
17	Absorbing Clamp	Luthi	MDS21	3635	2012/03/14	1 Year
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14	1 Year
19	AC Power Source	Kikusui	AC40MA	LM003232	2012/03/14	1 Year
20	Test Analyzer	Kikusui	KHA1000	LM003720	2012/03/14	1 Year
21	Line Impendence Network	Kikusui	LIN40MA- PCR-L	LM002352	2012/03/14	1 Year
22	ESD Tester	Kikusui	KES4021	LM003537	2012/03/14	1 Year
23	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2012/03/14	1 Year
24	Signal Generator	IFR	2032	203002/100	2012/03/14	1 Year
25	Amplifier	A&R	150W1000	301584	2012/03/14	1 Year
26	CDN	FCC	FCC-801-M2-25	47	2012/03/14	1 Year
27	CDN	FCC	FCC-801-M3-25	107	2012/03/14	1 Year
28	EM Injection Clamp	FCC	F-203I-23mm	403	2012/03/14	1 Year
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2012/03/14	1 Year
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2012/03/14	1 Year
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2012/03/14	1 Year
32	8 Loop Antenna	ARA	PLA-1030/B	1029	2012/02/19	1 Year
33	Power Meter	R&S	NRVS	100444	2012/03/14	1 Year

NOTE: Equipments listed above have been calibrated and are in the period of validation.

4.2 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable

Remark:

All the equipment/cables were placed in the worst-case [-configuration to maximize the emission during the test.

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5. 47 CFR Part 15 C 15.247 Requirements

5.1 6dB Bandwidth

5.1.1 Definition

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.1.2 Limit

FCC Part15(15.247)						
Section	Test Item	Limit	Frequency Range(MHz)	Result		
15.247(a)(2)	Bandwidth	>=500KHz (6dB Bandwidth)	2400-2483.5	PASS		

5.1. 3 Test Configuration

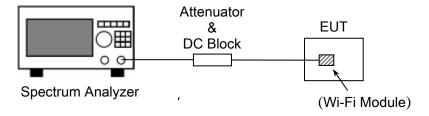


Figure 1: RF Test Setup

5.1.4 Test Procedure

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	>Measurement bandwidth or channel separation
RB	1-5% of the emission bandwidth(EBW)
VB	≧3 x RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

The EUT is powered by the Battery, is coupled to the Spectrum Analyzer (SA) through the Attenuator/DC Block. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power. The RF load attached to the EUT antenna terminal is 500hm.

5.1.5 Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

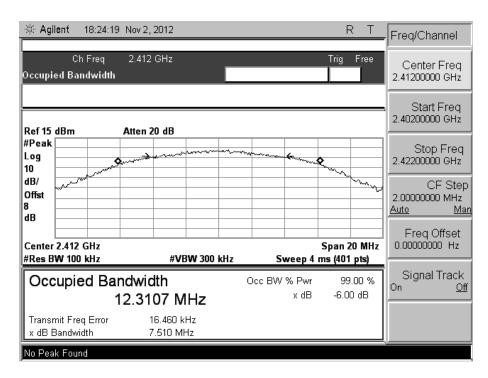
5.1.5.1 802.11b Test Mode

The minimum occupied bandwidth for the fundamental frequency 2442 MHz is 6.385 MHz. This occupied bandwidth complies with the FCC requirement.

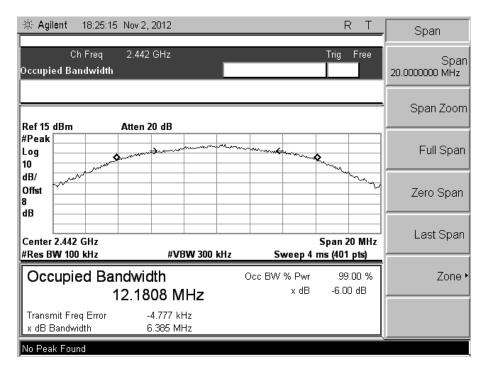
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	7.510	≥500	PASS
7	2442	6.385	≥500	PASS
11	2462	6.469	≥500	PASS

B. Test Plot:



(CH Low)



(CH Mid)

(CH High)

5.1.5.2 802.11g Test Mode

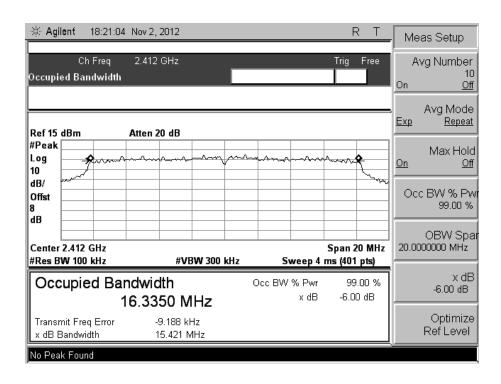
No Peak Found

The minimum occupied bandwidth for the fundamental frequency 2442MHz is 15.174MHz. This occupied bandwidth complies with the FCC requirement.

A. Test Verdict:

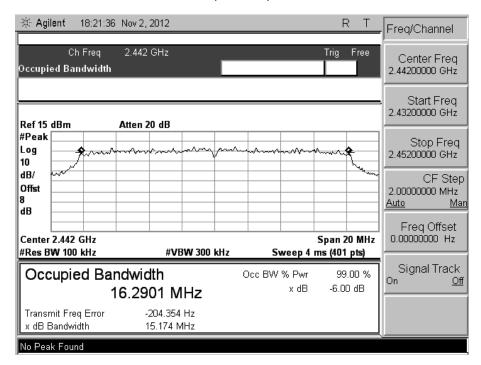
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	15.421	≥500	PASS
7	2442	15.174	≥500	PASS
11	2462	15.185	≥500	PASS

B. Test Plot:

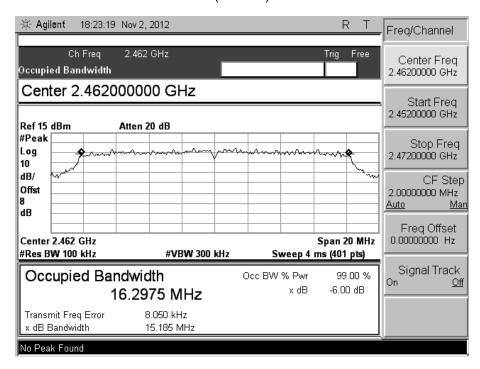


(CH Low)

Report No.: MTE/DAL/D12101609



(CH Mid)



(CH High)

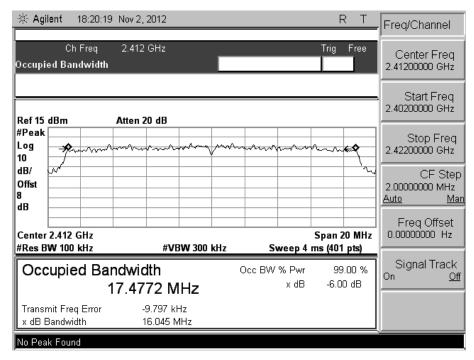
5.1.5.3 802.11n Test Mode

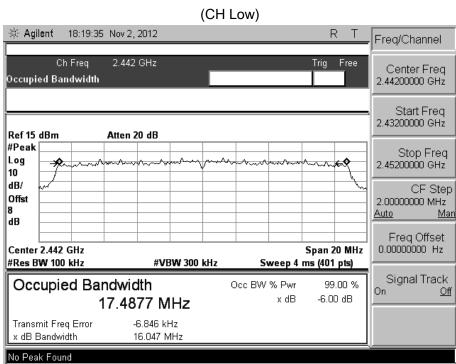
The minimum occupied bandwidth for the fundamental frequency 2412MHz is 16.045MHz. This occupied bandwidth complies with the FCC requirement.

A. Test Verdict:

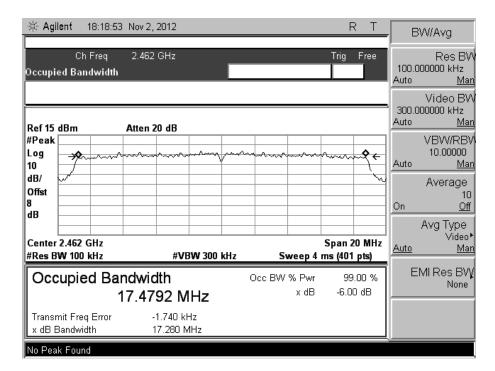
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	16.045	≥500	PASS
7	2442	16.047	≥500	PASS
11	2462	17.280	≥500	PASS

B. Test Plot:





(CH Mid)



(CH High)

5.2 Peak Output Power

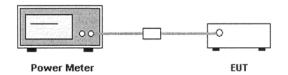
5.2.1 Definition

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

5.2.2 Limit

FCC Part15(15.247)							
Section	Test Item	Limit	Frequency	Result			
			Range(MHz)				
15.247(b)(1)	Peak Output Power	30dBm	2400-2483.5	PASS			

5.2.3 Test Configuration



5.2.4 Test Procedure

The EUT which is powered by AC adapter, is coupled to the Power Meter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

5.2.5 Test Result

The EUT operates at maximum output power mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

5.2.5.1 802.11b Test Mode

The maximum output power for the fundamental frequency 2412MHz is 10.58dBm. This power complies with the FCC requirement.

A. Test Verdict:

Channel	Frequency (MHz)	Measured Output I	Lin	Verdict		
Chamie	rrequency (MHZ)	dBm	W	dBm	W	vertict
1	2412	10.58	0.011			PASS
7	2442	9.935	0.010	30	1	PASS
11	2462	10.05	0.010			PASS

5.2.5.2 802.11g Test Mode

The maximum output power for the fundamental frequency 2412 MHz is 9.203dBm. This power complies with the FCC requirement.

A. Test Verdict:

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
Chamiei	riequency (MHZ)	dBm	W	dBm	W	verdict
1	2412	9.203	0.008			PASS
7	2442	9.055	0.008	30	1	PASS
11	2462	9.088	0.008			PASS

5.2.5.3 802.11n Test Mode

The maximum output power for the fundamental frequency 2412 MHz is 8.192 dBm. This power complies with the FCC requirement.

A. Test Verdict:

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
Chamiei	riequency (MHz)	dBm	W	dBm	W	verdict
1	2412	8.192	0.007			PASS
7	2442	8.001	0.006	30	1	PASS
11	2462	7.943	0.006			PASS

5.3 Conducted Spurious Emission

5.3.1 Definition

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

5.3.2 Test Description

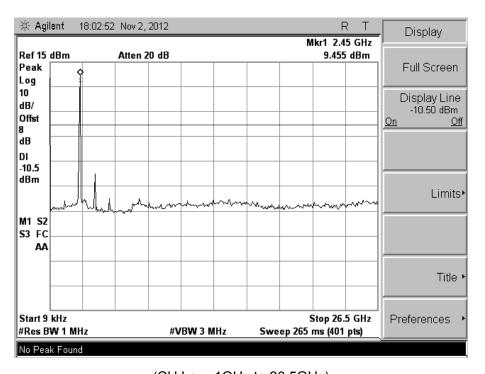
See section 5.1.2 of this report.

5.3.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

5.3.3.1 802.11b Test Mode

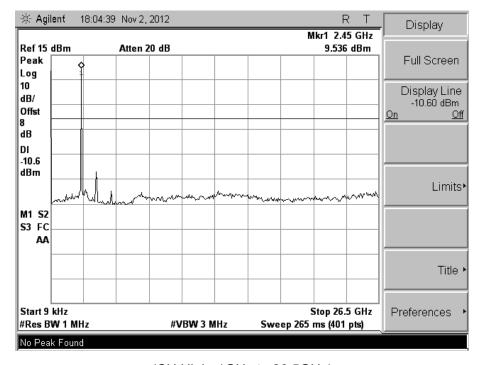
Test Plot:



(CH Low, 1GHz to 26.5GHz)

No Peak Found

(CH MID, 1GHz to 26.5GHz)



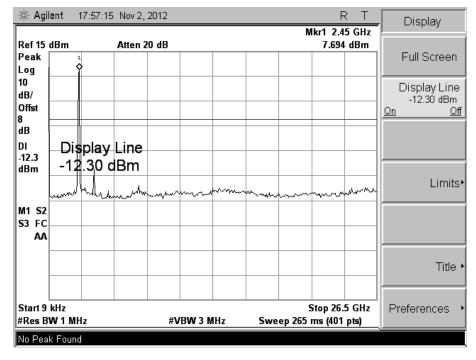
(CH High, 1GHz to 26.5GHz)

Note:

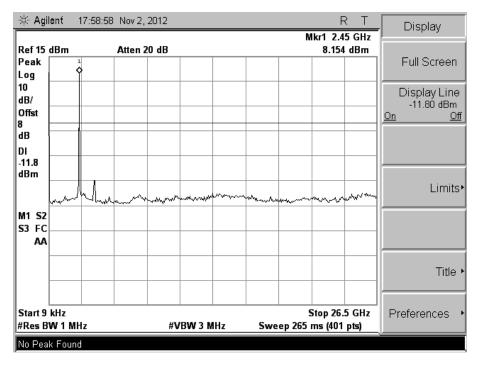
1. The power of the Module transmitting frequency should be ignored.

5.3.2. 802.11g Test Mode

Test Plot:



(CH Low, 1GHz to 26.5GHz)



(CH Mid, 1GHz to 26.5GHz)

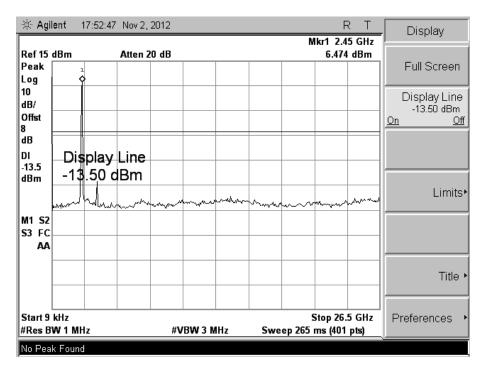
(CH High, 1GHz to 26.5GHz)

Note:

1. The power of the Module transmitting frequency should be ignored.

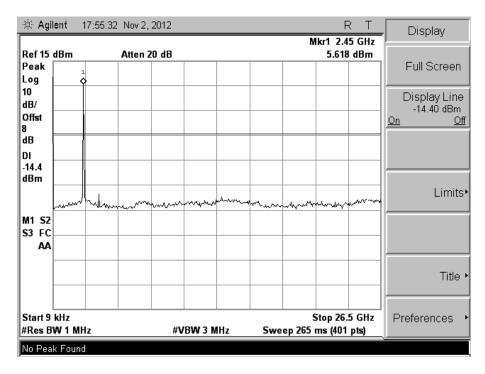
5.3.3. 802.11n Test Mode

Test Plot:



(CH Low, 1GHz to 26.5GHz)

(CH Mid, 1GHz to 26.5GHz)



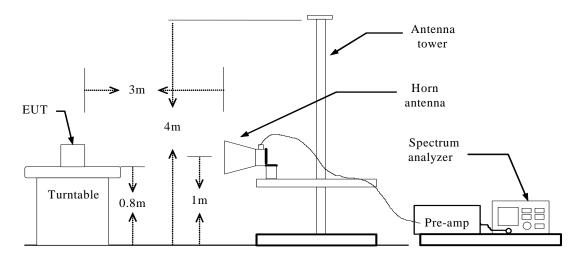
(CH High, 1GHz to 26.5GHz)

5.4 Band Edge

5.4.1 Definition

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

5.4.2 Test Configuration



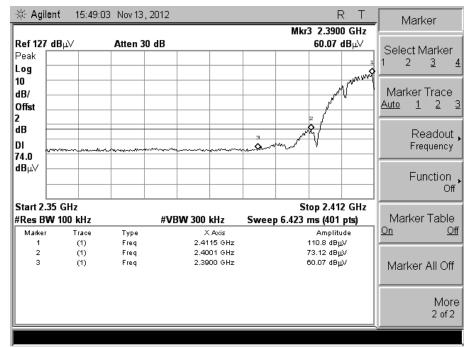
5.4.3 Test Result

The EUT operates at continuous transmit test mode. The lowest and highest channels are tested to verify the band edge emissions.

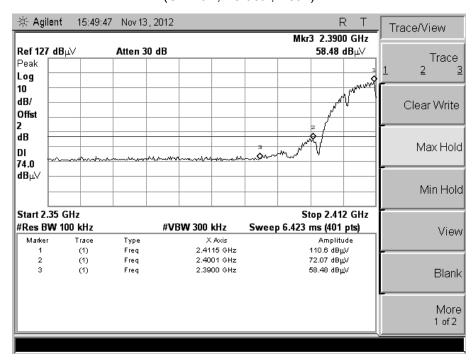
5.4.3.1 802.11b Test Mode

					Test Result Highest Emission (dBuv/m)		
Test Mode		Channel Marked Frequency	Limit (dBuv/m)	Vertical		Horizontal	
		,		Peak	Average	Peak	Average
	Low	2390MHz	74(Peak)	60.07	36.21	58.48	31.18
\\/!EI	Channel	2400MHz		73.12	49.75	72.07	47.81
VVIFI	WIFI High Channel	2483.5MHz		60.43	37.04	58.77	35.12
		2500MHz		59.30	35.67	59.38	26.02

Test Plot:

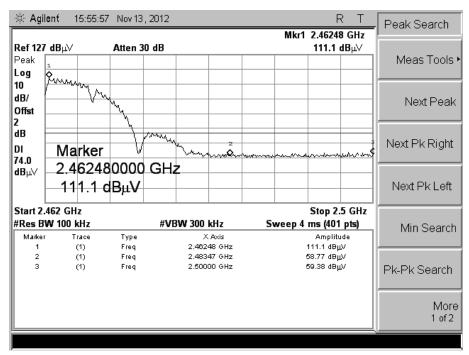


(CH Low, Vertical, Peak)



(CH Low, Horizontal, Peak)

(CH High, Vertical, Peak)

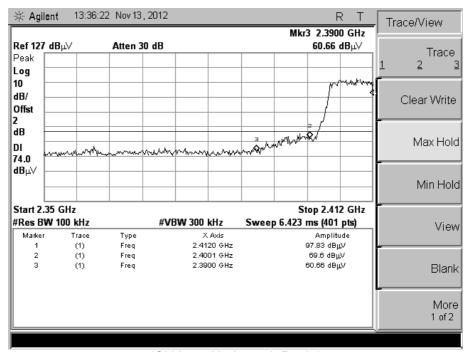


(CH High, Horizontal, Peak)

5.4.3.2 802.11g Test Mode

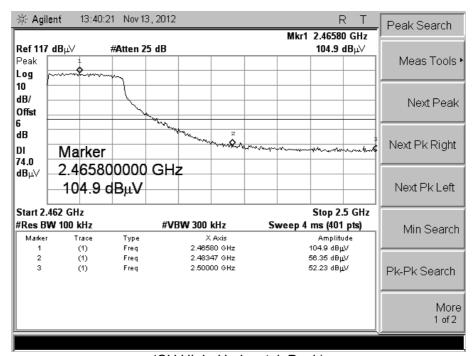
		Test Result Highest Emission (dBuv/n				dBuv/m)	
Test Mode		Channel Marked Frequency	Limit (dBuv/m)	Vertical		Horizontal	
		, ,		Peak	Average	Peak	Average
	Low	2390MHz		60.15	40.65	60.66	40.53
WIFI	Channel	2400MHz	74(Peak)	71.67	50.34	69.60	48.21
VVIFI	-ı High	2483.5MHz	54(Average)	57.17	36.78	56.35	34.52
Channel	2500MHz		52.22	30.55	52.23	30.45	

Test Plot:



(CH Low, Horizontal, Peak)

(CH Low, Vertical, Peak)



(CH High, Horizontal, Peak)

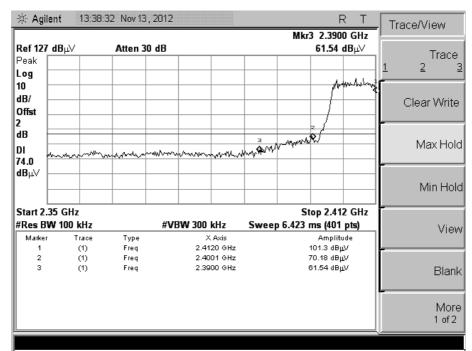
(CH High, Vertical, Peak)

5.4.3.3 802.11n Test Mode

					Test Result Highest Emission (dBuv/m)			
Test Mode		Channel Marked Frequency	Limit (dBuv/m)	Vertical		Horizontal		
		, ,		Peak	Average	Peak	Average	
	Low	2390MHz		61.54	40.64	61.34	40.60	
\\/!EI	Channel	2400MHz	74(Peak)	70.18	49.53	70.20	50.35	
VVIFI	WIFI High Channel	2483.5MHz	54(Average)	56.17	34.30	56.70	33.55	
		2500MHz		52.53	30.58	51.99	30.85	

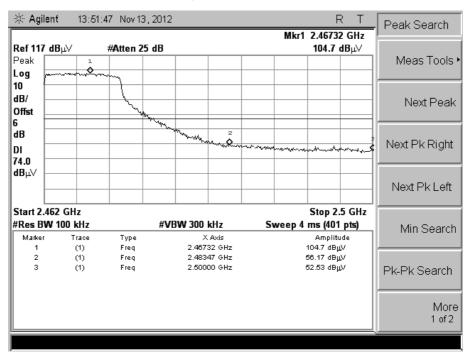
Test Plot:

(CH Low, Horizontal, Peak)



(CH Low, Vertical, Peak)

(CH High, Horizontal, Peak)



(CH High, Vertical, Peak)

5.5 Power Spectral Density (PSD)

5.5.1 Definition

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band.

5.5.2 Limit

FCC Part15(15.247)							
Section	Test Item	Limit	Frequency Range(MHz)	Result			
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2402-2483.5	PASS			

5.5.4 Test Configuration



5.5.3 Test Description

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	5-30% greater than the EBW
RB	100kHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- a. The EUT was directly connectd to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=100KHz, VBW=300KHz, Sweep time=Auto. Span to 5-30% greater than EBW
- c. Scale the observed power level to an equivalent value in 3kHz by adjusting(reducing) the measured power by a bandwidth correction factor(BWCF) where BWCF=10log(3kHz/100kHz=-15.2dB).
- d. Use peak detector+BWCF.
- f. The resulting peak PSD level must be ≤8dBm.

5.5.4 Test Configuration



5.5.3 Operation Condition

The EUT tested system was configured as the statements of 2.1 unless otherwise a special operating condition is specified in the follows during the testing.

5.5.6 Test Result

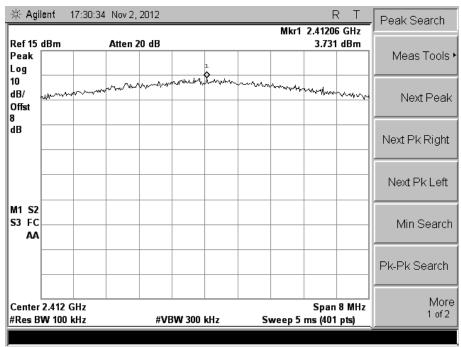
The lowest, middle and highest channels are tested to verify the power spectral density.

5.5.6.1 802.11b Test Mode

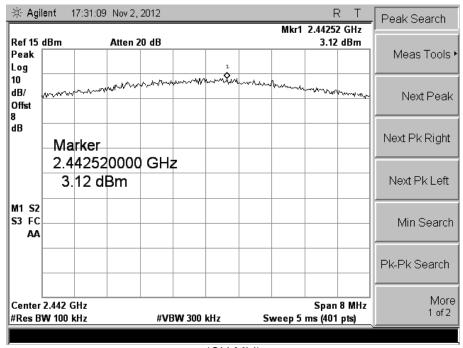
A. Test Verdict:

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-11.47	€8	PASS
7	2442	-12.08	€8	PASS
11	2462	-11.82	€8	PASS

B. Test Plot:







(CH Mid)

🔆 Agilent

Ref 15 dBm

Peak

Log 10 dB/

Offst 8 dB

M1 S2 S3 FC

AΑ

Center 2.462 GHz

#Res BW 100 kHz

17:31:49 Nov 2, 2012

Atten 20 dB

Min Search

More

1 of 2

Pk-Pk Search

Span 8 MHz

Sweep 5 ms (401 pts)

Report No.: MTE/DAL/D12101609

(CH High)

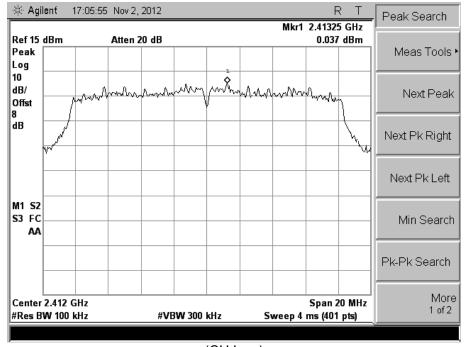
#VBW 300 kHz

5.5.6.2 802.11g Test Mode

A. Test Verdict:

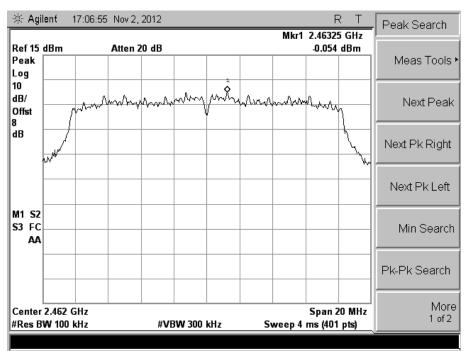
Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-15.16	≪8	PASS
7	2442	-15.49	≤8	PASS
11	2462	-15.25	≤ 8	PASS

B. Test Plot:



(CH Low)

(CH Mid)



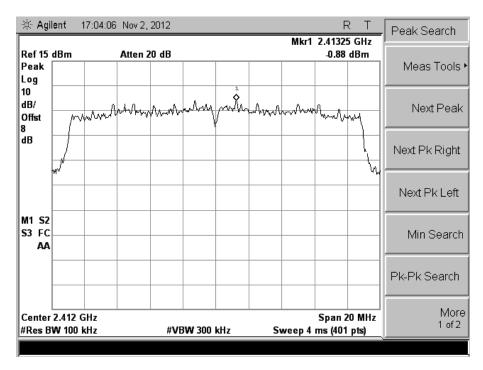
(CH High)

5.5.6.3 802.11n Test Mode

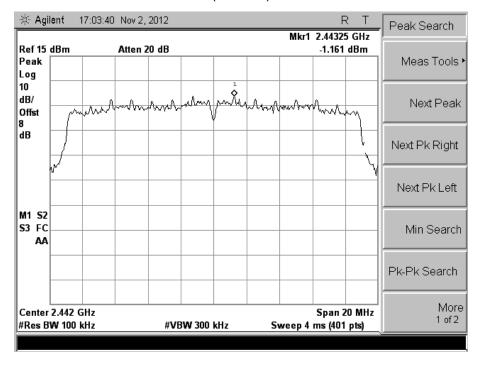
A. Test Verdict:

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-16.08	€8	PASS
7	2442	-16.36	€8	PASS
11	2462	-16.45	€8	PASS

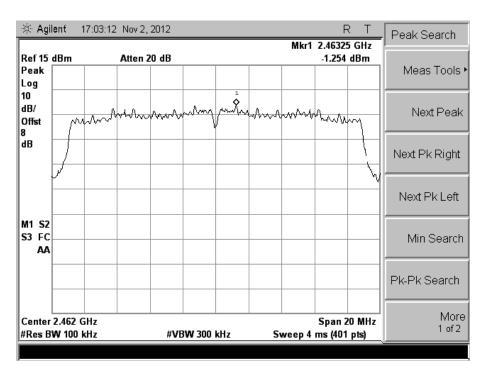
B. Test Plot:



(CH Low)



(CH Mid)



(CH High)

Report No.: MTE/DAL/D12101609

5.6 Conducted Emission

5.6.1 Definition

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a $50 \, \mu H/50$ ohms line impedance stabilization network (LISN).

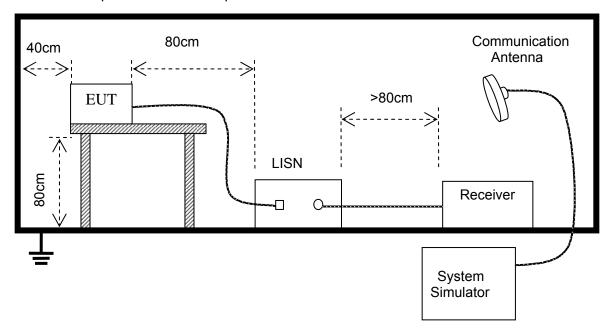
Fraguency	Maximum RF	Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.6.2 Test Description

The EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power.



5.6.3 Test Result

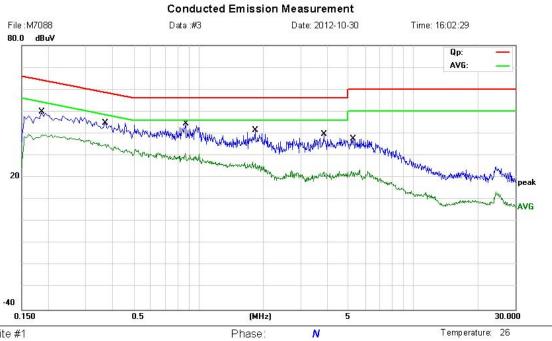
A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The Wifi model was carried out for 802.11b/g/n modulation types, 802.11b High channel modulation type was the worst case condition, The test data was shown on the summary data page.



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong, China

Tel: 0755-86170306 Fax: 0755-86170310



Power: DC 5V Adapter AC 120V/60Hz

Humidity: 60 %

Site site #1

Limit: FCC Part15 B Class B QP

EUT: 7" Internet Tablet

M/N: M7088 Mode: WIFI Mode

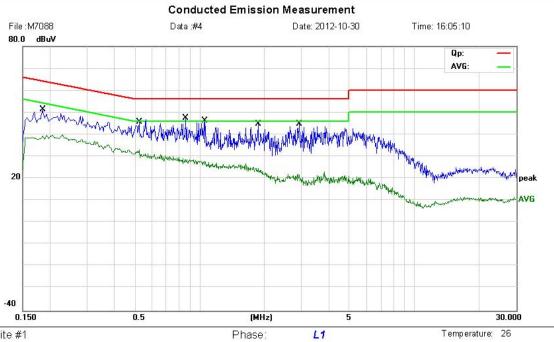
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1860	38.58	11.16	49.74	64.21	-14.47	QР	
2		0.3700	33.94	10.87	44.81	58.50	-13.69	QР	
3	*	0.8740	34.41	10.00	44.41	56.00	-11.59	QP	
4		1.8340	32.38	9.17	41.55	56.00	-14.45	QP	
5		3.8580	28.78	10.86	39.64	56.00	-16.36	QР	
6		5.2580	25.68	11.85	37.53	60.00	-22.47	QP	

^{*:}Maximum data x:Over limit l:over margin



 $\label{eq:Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong\ , China$

Tel: 0755-86170306 Fax: 0755-86170310



Power: DC 5V Adapter AC 120V/60Hz

Humidity: 60 %

Site site #1 Limit: FCC Part15 B Class B QP

EUT: 7" Internet Tablet

M/N: M7088

Mode: WIFI Mode

No. M	۸k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1860	40.09	11.16	51.25	64.21	-12.96	QP	
2		0.5260	35.78	10.00	45.78	56.00	-10.22	QР	
3 *		0.8620	37.58	10.00	47.58	56.00	-8.42	QP	
4		1.0580	36.36	9.94	46.30	56.00	-9.70	QΡ	
5		1.8740	35.63	9.13	44.76	56.00	-11.24	QР	
6		2.9420	34.17	9.94	44.11	56.00	-11.89	QP	

^{*:}Maximum data x:Over limit !:over margin

5.7 Radiated Emission

5.7.1 Definition

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

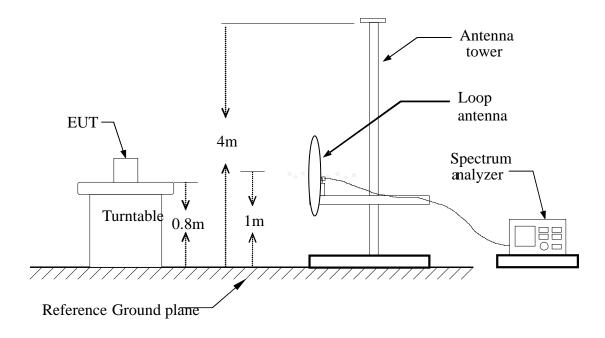
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

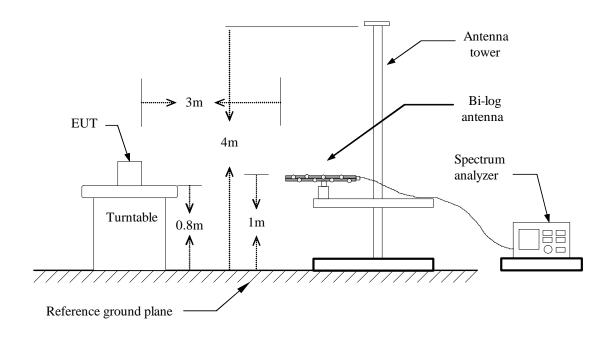
As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

5.7.2 Test Description

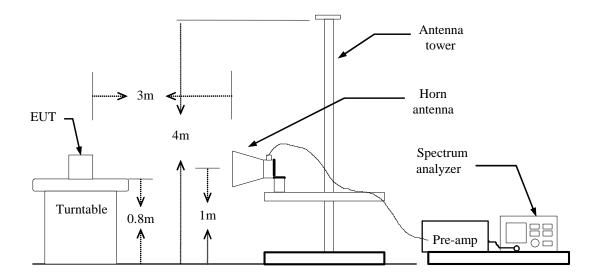
A. Test Configuration:



Below 1GHz:



Above 1GHz:



B. Test procedures

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

5.7.3 Test Result

The Wifi model was carried out for 802.11b/g/n modulation types, 802.11b High channel modulation type was the worst case condition, The test data was shown on the summary data page.

From 9KHz to 30MHz:

EUT:	7" Internet Tablet	Model Name. :	M7088
Temperature:	20 °C	Relative HuMaylong Mobility Tabletity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5V by Adapter AC 120V/60Hz
Test Mode:	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =20 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.

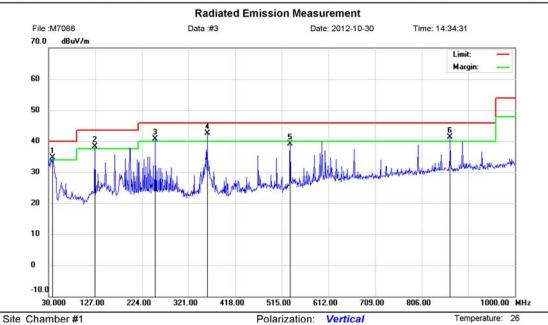
Conclusion: PASS

Below 1 GHz



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Power: DC 5V Adapter AC 120V/60Hz

Distance:

Humidity:

61 %

Limit: FCC Part15 B 3M Radiation

EUT: 7" Internet Tablet

M/N: M7088 Mode: WIFI Mode

Note:

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	38.7299	16.79	17.85	34.64	40.00	-5.36	QP			
2	!	126.0300	20.70	17.70	38.40	43.50	-5.10	QP			
3	!	252.1299	23.21	17.40	40.61	46.00	-5.39	QP			
4	*	359.8000	24.29	18.30	42.59	46.00	-3.41	QP			
5		532.4600	16.94	22.17	39.11	46.00	-6.89	QP			
6	!	865.1699	14.30	27.05	41.35	46.00	-4.65	QP			

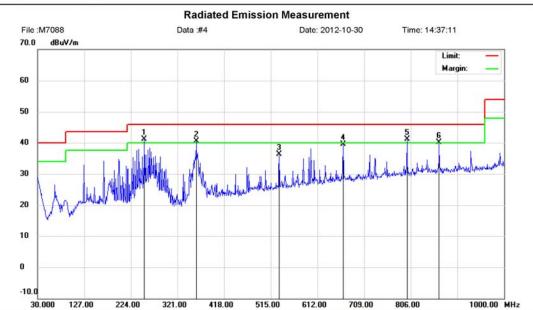
*:Maximum data x:Over limit !:over margin

> Engineer Signature: Sky



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong, China

Tel: 0755-86170306 Fax: 0755-86170310



Site Chamber #1

Limit: FCC Part15 B 3M Radiation

EUT: 7" Internet Tablet

M/N: M7088 Mode: WIFI Mode

Note:

Power: DC 5V Adapter AC 120V/60Hz

Polarization: Horizontal

Temperature: 26 Humidity: 61 %

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	252.1299	23.77	17.40	41.17	46.00	-4.83	QP			
2	!	359.8000	22.12	18.30	40.42	46.00	-5.58	QP			
3		532.4600	14.13	22.17	36.30	46.00	-9.70	QP			
4		665.3500	15.29	24.31	39.60	46.00	-6.40	QP			
5	!	798.2400	15.23	25.92	41.15	46.00	-4.85	QP			
6	!	865.1699	13.04	27.05	40.09	46.00	-5.91	QP			

*:Maximum data x:Over limit !:over margin

> Engineer Signature: Sky

Above 1 GHz

Operation Mode: TX/ IEEE 802.11b/CH Low Test Date: Oct. 31, 2012

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4824.0	Н	33.15	13.80	23.54	56.69	37.34	74.00	54.00	-16.66
N/A	Н								
4824.0	V	32.50	13.63	23.36	55.86	36.99	74.00	54.00	-17.01
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11b/CH Mid Test Date: Oct. 31, 2012

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4884.0	Н	36.14	17.35	23.54	59.68	40.89	74.00	54.00	-13.11
N/A	Н								
4884.0	V	35.93	16.31	23.36	59.29	39.67	74.00	54.00	-14.33
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11b/CH High Test Date: Oct. 31, 2012

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4924.0	Н	32.48	11.50	23.54	56.02	35.04	74.00	54.00	-18.96
N/A	Н								
4924.0	V	32.93	11.87	23.36	56.29	35.23	74.00	54.00	-18.77
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH Low Test Date: Oct. 31, 2012

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4824.0	Н	32.74	13.38	23.78	56.52	37.16	74.00	54.00	-16.84
N/A	Η								
4824.0	V	30.85	10.26	24.01	54.86	34.27	74.00	54.00	-19.73
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH Mid Test Date: Oct. 31, 2012

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak AV		(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4884.0	Н	32.51	13.10	23.78	56.29	36.88	74.00	54.00	-17.12
N/A	Η								
4884.0	V	31.61	10.00	24.01	55.62	34.01	74.00	54.00	-19.99
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH High Test Date: Oct. 31, 2012

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak AV		(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4924.0	Н	32.00	11.29	23.78	55.78	35.07	74.00	54.00	-18.93
N/A	Η								
4924.0	V	31.32	10.28	24.01	55.33	34.29	74.00	54.00	-19.71
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11n/CH Low Test Date: Oct. 31, 2012

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs Peak AV		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)			(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4824.0	Н	30.51	10.03	24.02	54.53	34.05	74.00	54.00	-19.95
N/A	Н								
4824.0	V	32.75	11.07	24.68	57.43	35.75	74.00	54.00	-18.25
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie:
 - margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6.Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode:TX/ IEEE 802.11n/CH MidTest Date:Oct. 31, 2012Temperature:20°CTested by:Habby GuoHumidity:70 % RHPolarity:Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak AV		(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4884.0	Н	31.03	10.81	24.02	55.05	34.83	74.00	54.00	-19.17
N/A	Н								
4884.0	V	30.22	10.17	24.68	54.90	34.85	74.00	54.00	-19.15
N/A	V								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6 Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11n/CH High Test Date: Oct. 31, 2012

Temperature: 20°C **Tested by:** Habby Guo

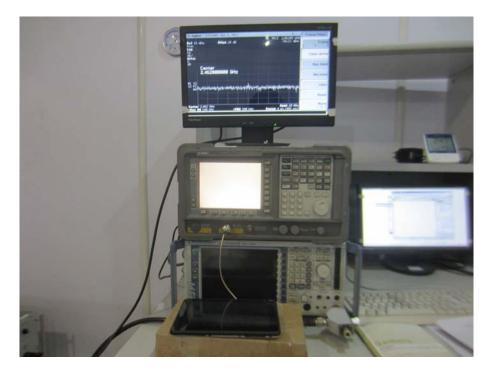
Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak AV		(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4924.0	Н	30.23	11.00	24.02	54.25	35.02	74.00	54.00	-18.98
N/A	Н								
4924.0	V	29.09	10.04	24.68	53.77	34.72	74.00	54.00	-19.28
N/A	V								
	·								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6.Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP





-----END OF REPORT-----