

Report No: JYTSZB-R12-2101604

# FCC REPORT

Applicant:	Todos Industrial Limited		
Address of Applicant:	Room 308, building A3, Fuhai information port, Fuhai street, Bao'an District, Shenzhen City, Guangdong Province, 518000		
Equipment Under Test (E	EUT)		
Product Name:	Tablet PC		
Model No.:	Tab64, Tab 64, Tab7ii, Tab8ii, Tab10ii, TabX1, TabX2, TabX3, TabX4, TabXX (X can be "0" to "9", "a" to"z"), TabAI1, Tab1066, TabN1, TabN2, TabN3, TabN4		
Trade mark:	Aprix, Geex, Hiup, None, Quadrant		
FCC ID:	2AZQ6-AP64		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
Date of sample receipt:	16 Aug., 2021		
Date of Test:	16 Aug., to 07 Sep., 2021		
Date of report issued:	08 Sep., 2021		
Test Result:	PASS*		

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



#### Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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#### Version 2

Version No.	Date	Description
00	08 Sep., 2021	Original

Tested by:

Reviewed by:

Mike.OU Test Engineer

Date: 08 Sep., 2021

Winner Thang

**Project Engineer** 

Date: 08 Sep., 2021

Project No.: JYTSZE2108062



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## 4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 2.4G Wi-Fi	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A – 2.4G Wi-Fi	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – 2.4G Wi-Fi	Pass
Power Spectral Density	15.247 (e)	Appendix A – 2.4G Wi-Fi	Pass
Conducted Band Edge		Appendix A – 2.4G Wi-Fi	Pass
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission		Appendix A – 2.4G Wi-Fi	Pass
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	Pass

1. Pass: The EUT complies with the essential requirements in the standard.

2. N/A: Not Applicable.

3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method:

ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02



# 5 General Information

## 5.1 Client Information

Applicant:	Todos Industrial Limited
Address:	Room 308, building A3, Fuhai information port, Fuhai street, Bao'an District, Shenzhen City, Guangdong Province, 518000
Manufacturer:	Todos Industrial Limited
Address:	Room 308, building A3, Fuhai information port, Fuhai street, Bao'an District, Shenzhen City, Guangdong Province, 518000

## 5.2 General Description of E.U.T.

Product Name:	Tablet PC				
Model No.:	Tab64, Tab 64, Tab7ii, Tab8ii, Tab10ii, TabX1, TabX2, TabX3, TabX4, TabXX (X can be "0" to "9", "a" to"z"), TabAI1, Tab1066, TabN1, TabN2, TabN3, TabN4				
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20)				
	2422MHz~2452MHz: 802.11n(HT40)				
Channel numbers:	11: 802.11b/802.11g/802.11(HT20)				
	7: 802.11n(HT40)				
Channel separation:	5MHz				
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)				
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)				
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps				
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps				
Data speed (IEEE 802.11n):	Up to 150Mbps				
Antenna Type:	Internal Antenna				
Antenna gain:	0.15 dBi				
Power supply:	Rechargeable Li-ion Battery DC3.8V, 6000mAh				
AC adapter:	Model: EE-0502000UZ				
	Input: AC100-240V, 50/60Hz, 0.5A				
	Output: DC 5.0V, 2000mA				
Remark:	Model No.: Tab64, Tab 64, Tab7ii, Tab8ii, Tab10ii, TabX1, TabX2, TabX3, TabX4, TabXX (X can be "0" to "9", "a" to"z"), TabAl1, Tab1066, TabN1, TabN2, TabN3, TabN4 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.				
Test Sample Condition:	The test samples were provided in good working order with no visible defects.				

		Operation Frequency each of channel for 802.11b/g/n(HT20)							
Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency			
2412MHz	4	2427MHz	7	2442MHz	10	2457MHz			
2417MHz	5	2432MHz	8	2447MHz	11	2462MHz			
2422MHz	6	2437MHz	9	2452MHz					
	2412MHz 2417MHz	2412MHz 4 2417MHz 5	2412MHz 4 2427MHz 2417MHz 5 2432MHz	2412MHz         4         2427MHz         7           2417MHz         5         2432MHz         8	2412MHz         4         2427MHz         7         2442MHz           2417MHz         5         2432MHz         8         2447MHz	2412MHz         4         2427MHz         7         2442MHz         10           2417MHz         5         2432MHz         8         2447MHz         11			

Note:

1. For 802.11n-HT40 mode, the channel number is from 3 to 9;

2. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest Channel.

JianYan Testing Group Shenzhen Co., Ltd. No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366 Project No.: JYTSZE2108062

6.5Mbps

13.5Mbps



## 5.3 Test environment and mode

Operating Environment:					
Temperature: 24.0 °C					
Humidity:	54 % RH				
Atmospheric Pressure:	ure: 1010 mbar				
Test mode:					
Transmitting mode Keep the EUT in continuous transmitting with modulation					
Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:					
Per-scan all kind of data rate, the follow list were the worst case.					
Mode Data rate					
		Data rate			
802.11b		Data rate 1Mbps			

## 5.4 Description of Support Units

802.11n(HT20)

802.11n(HT40)

The EUT has been tested as an independent unit.

#### 5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

## 5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

#### • ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

#### • A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

#### 5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com



## 5.8 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	07-02-2021	07-01-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-26-2021	06-25-2022
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	V	/ersion: 6.110919t	)
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2021	03-02-2022
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	_
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2020	09-24-2021
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2020	10-31-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-16-2021	07-15-2022
10m SAC	ETS	RFSD-100-F/A	Q2005	03-31-2021	04-01-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	03-31-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	03-31-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	102800	04-06-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	102802	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-07-2022
Test Software	R&S	EMC32		Version: 10.50.40	)

Conducted Emission:						
Test Equipment	Manufacturer	Model No. Seria	Serial No.	Cal. Date	Cal. Due date	
	Manadalo	inouci ito.		(mm-dd-yy)	(mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-03-2021	03-02-2022	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022	
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2021	06-17-2022	
Cable	HP	10503A	N/A	03-03-2021	03-02-2022	
EMI Test Software	AUDIX	E3	Version: 6.110919b			

Conducted method:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021	
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021	
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021	
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021	
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021	
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A	

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PDU	MWRF-test	XY-G10	N/A	N/A	N/A
Test Software	MWRF-tes	MTS 8310		Version: 2.0.0.0	
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021

# 6 Test results and Measurement Data

# 6.1 Antenna requirement

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohit 15.247(b) (4) requirement: (4) The conducted output po antennas with directional ga section, if transmitting anten power from the intentional ra	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit in be replaced by the user, but the use of a standard antenna jack or bited. over limit specified in paragraph (b) of this section is based on the use of this that do not exceed 6 dBi. Except as shown in paragraph (c) of this onas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), tion, as appropriate, by the amount in dB that the directional gain of the
E.U.T Antenna:	
The Wi-Fi antenna is an Inter antenna is 0.15 dBi.	nal antenna which cannot replace by end-user, the best case gain of the



## 6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.2	207				
Test Frequency Range:	150 kHz to 30 MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9 kHz, VBW=30 kHz					
Limit:	Frequency range (MHz)	Limit (c	dBuV)			
		Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5 56 46					
	5-30	60	50			
	* Decreases with the logarit					
Test procedure	<ol> <li>line impedance stabiliza 50ohm/50uH coupling i</li> <li>The peripheral devices LISN that provides a 50 termination. (Please ref photographs).</li> <li>Both sides of A.C. line a interference. In order to positions of equipment</li> </ol>	ors are connected to the m ation network (L.I.S.N.), w mpedance for the measur are also connected to the ohm/50uH coupling imper fer to the block diagram of are checked for maximum o find the maximum emissi and all of the interface cal .10(latest version) on cond	hich provides a ing equipment. main power through a dance with 50ohm the test setup and conducted on, the relative bles must be changed			
Test setup:		st	er — AC power			
Test Instruments:	Refer to section 5.9 for deta	ils				
Test mode:	Refer to section 5.3 for deta	ils				
Test results:	Passed					

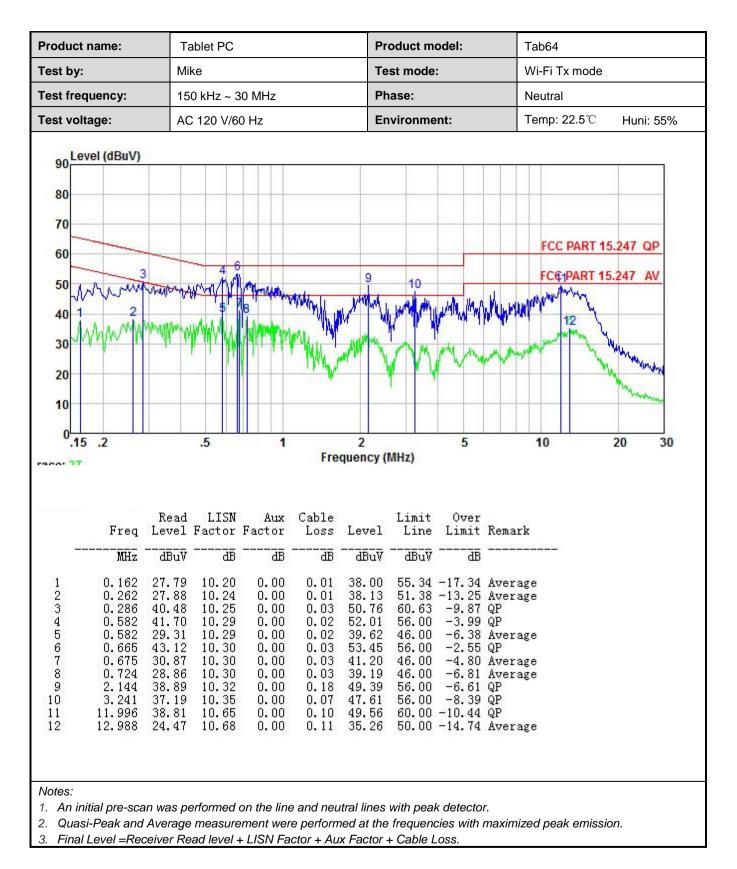


#### **Measurement Data:**

	Tablet PC		Pr	roduct m	odel:	Та	b64	
est by:	Mike		Te	est mode	:	Wi	i-Fi Tx mode	
est frequency:	150 kHz ~	30 MHz	PI	hase:		Lir	ne	
est voltage:	AC 120 V/	60 Hz	Eı	nvironme	ent:	Te	mp: 22.5℃	Huni: 55%
90 Level (dBuV) 80 70 60 50 40 30 40 30 40 30 40 30 40 30 40 30 40 30 40 30 40 30 40 30 40 30 40 30 40 30 40 30 40 50 50 50 50 50 50 50 50 50 5	Jun Man M		9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	(MHz)	5		FCG1PART	15.247 QP 15.247 AV
		Aux Cable	I]	Limit	Over Limit F	amark		
	Read LISN evel Factor	Factor Loss	rever	Line	TTTWE COL	Cemark		
Freq Le			dBuV	dBuV	<u>a</u> B -			

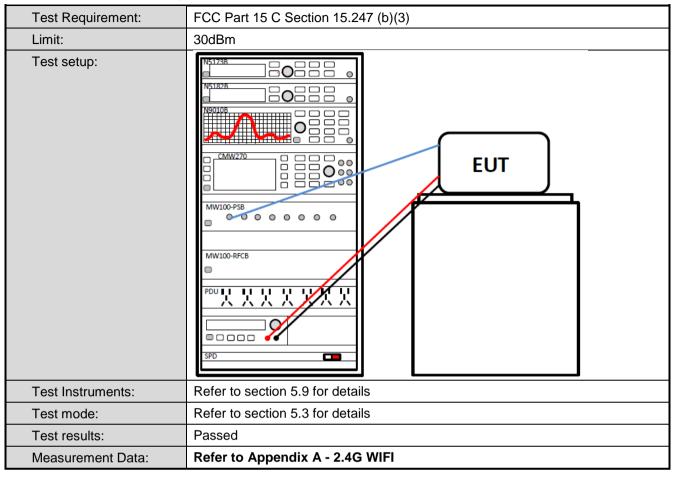
Project No.: JYTSZE2108062





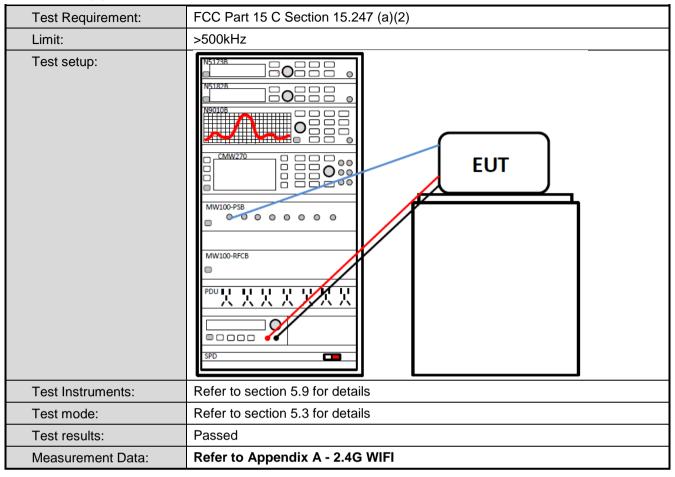


## 6.3 Conducted Output Power



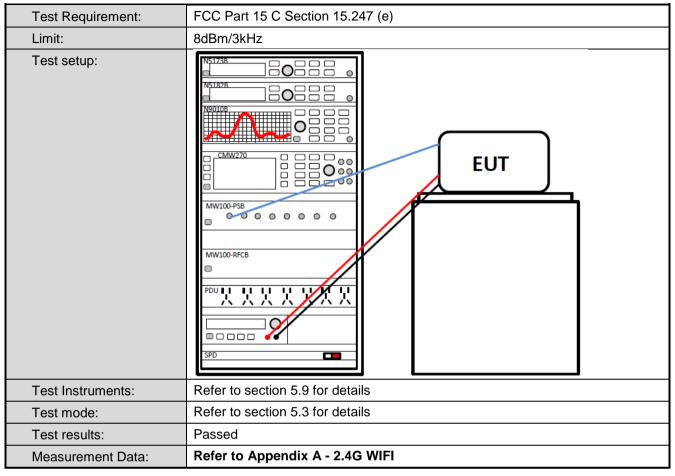


## 6.4 Occupy Bandwidth





## 6.5 Power Spectral Density





## 6.6 Band Edge

#### 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 2.4G WIFI



#### 6.6.2 Radiated Emission Method

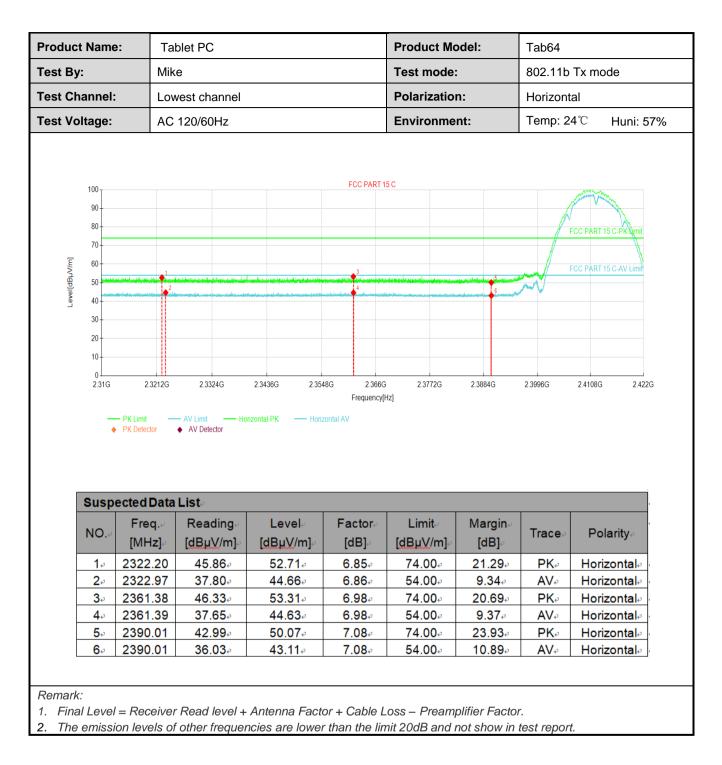
Test Requirement:	FCC Part 15 C Se	ection 15.209	and 15.205					
Test Frequency Range:	2310 MHz to 2390	) MHz and 24	83.5 MHz to 2	500 MHz				
Test Distance:	3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	Frequency	RMS	1MHz nit (dBuV/m @	3MHz	Average Value Remark			
Limit:	Above 1GHz 54.00 Average Value							
			74.00		Peak Value			
Test Procedure:	<ul> <li>the ground at determine the</li> <li>2. The EUT was antenna, whit tower.</li> <li>3. The antenna ground to det horizontal an measuremen</li> <li>4. For each sus and then the and the rota to maximum rea</li> <li>5. The test-rece Specified Bat</li> <li>6. If the emission limit specified the EUT wou 10dB margin</li> </ul>	t a 3 meter ca e position of t s set 3 meters ch was moun height is vari- termine the m d vertical pola t. pected emiss antenna was table was turr ading. viver system v ndwidth with I on level of the d, then testing Id be reported would be re-	imber. The tak he highest radi s away from the ted on the top ed from one m aximum value arizations of the ion, the EUT w tuned to heigh ned from 0 deg was set to Peal Maximum Hold EUT in peak r could be stop d. Otherwise th	ble was rotati iation. e interferenc of a variable eter to four r of the field s e antenna ar vas arranged its from 1 me rees to 360 of k Detect Fun I Mode. node was 10 ped and the ne emissions one using pe	-height antenna neters above the strength. Both e set to make the l to its worst case eter to 4 meters degrees to find the ction and dB lower than the peak values of that did not have ak, quasi-peak or			
Test setup:	150cm	AE EUT (Turntable)	Horn	Antenna To	wer			
Test Instruments:	Refer to section 5	.9 for details						
Test mode:	Refer to section 5	.3 for details						
Test results:	Passed							



#### 802.11b mode:

	Name		let PC			Product	Model:	Tab64		
est By:		Mike	9			Test mod	le:	802.11b	Tx mode	9
est Cha	annel:	Low	est channel			Polarizat	ion:	Vertical		
est Vol	tage:	AC <sup>2</sup>	120/60Hz			Environn	nent:	Temp: 24	4℃ F	luni: 57%
Level[dB,µV/m]	100 90 80 70 60 50 80 40				FCC PART 15		, nd n 1 1 4 1 2 -		FCC PART 15 C	
	30 20 10 0 2.31G	2.3212G – PK Limit – – PK Detector	2.3324G AV Limit Ve AV Detector	2 3436G 2 354 ertical PK — Vertical	Frequency[H	2.3772G z]	2.3884G	2.3996G	2.4108G	2.422G
	20 10 0 2.31G	– PK Limit –	AV Limit Ve		Frequency[H		2.3884G	2.3996G	2.4108G	2.422G
	20 10 2.31G	<ul> <li>PK Limit →</li> <li>PK Detector</li> </ul>	AV Limit Ve		Frequency[H		2.3884G			
	20 10 0 2.31G	ected Data	AV Limit Ve AV Detector Liste Readinge [dBµV/m]e	Level⊌ [dBµV/m]∂	Frequency(H AV Factor∞ [dB]∞	z] Limit⊸ [dBµV/m]⊸	Margin⊮ [dB]∞	Trace	Polar	ity⇔
	20 10 2.31G Susp NO 1	ected Data Freq. [MHz]. 2333.12	AV Limit Ve AV Detector List Reading [dBµV/m] 37.17	Level [dBµV/m] 44.06	Frequency(H AV Factor [dB] 6.89.2	z] Limit [dBµV/m]∞ 54.00₽	Margin⊮ [dB]∉ 9.94₽	Trace - AV-	Polar	ity. cal.
	20 10 0 2.31G Susp NO.~ <u>1</u> <u>2</u>	ected Data Freq [MHz] 2333.12 2333.56	AV Limit Ve AV Detector Liste Readinge [dBµV/m]e	Eevel⊷ [dBµV/m] 44.06⊷ 52.54↔	Frequency(H AV Factor [dB].2 6.89.2 6.89.2	z] Limit [dBµV/m]∞ 54.00¢ 74.00¢	Margin⊮ [dB]⊮ 9.94.¢ 21.46.∞	Trace AV PK	Polar Vertio Vertio	ity. cale cale
	20 10 0 2.31G Susp NO 1 2 3 3	ected Data Freq [MHz] 2333.12 2359.00	AV Limit Ve AV Detector Ve • AV Detector • AV Detector	Level [dBµV/m] 44.06 52.54 45.53	Frequency(H AV Factor [dB] 	z] Limit [dBµV/m]∘ 54.00¢ 74.00¢ 54.00¢	Margin.⊮ [dB].∘ 9.94.∘ 21.46.∘ 8.47.∘	Trace - AV- PK- AV-	Polar Vertic Vertic Vertic	ity₀ cal₀ cal₀
	20 10 0 2.31G Susp NO.~ <u>1</u> <u>2</u>	ected Data Freq [MHz] 2333.12 2333.56	AV Limit Ve AV Detector Ve List Reading [dBµV/m] 37.17+2 45.65+2	Eevel⊷ [dBµV/m] 44.06⊷ 52.54↔	Frequency(H AV Factor [dB].2 6.89.2 6.89.2	z] Limit [dBµV/m]∞ 54.00¢ 74.00¢	Margin⊮ [dB]⊮ 9.94.¢ 21.46.∞	Trace AV PK	Polar Vertio Vertio	ity₀ cal₀ cal₀
	20 10 0 2.31G Susp NO 1 2 3 3	ected Data Freq [MHz] 2333.12 2359.00	AV Limit Ve AV Detector Ve • AV Detector • AV Detector	Level [dBµV/m] 44.06 52.54 45.53	Frequency(H AV Factor [dB] 	z] Limit [dBµV/m]∘ 54.00¢ 74.00¢ 54.00¢	Margin.⊮ [dB].∘ 9.94.∘ 21.46.∘ 8.47.∘	Trace - AV- PK- AV-	Polar Vertic Vertic Vertic	ity cal cal cal cal

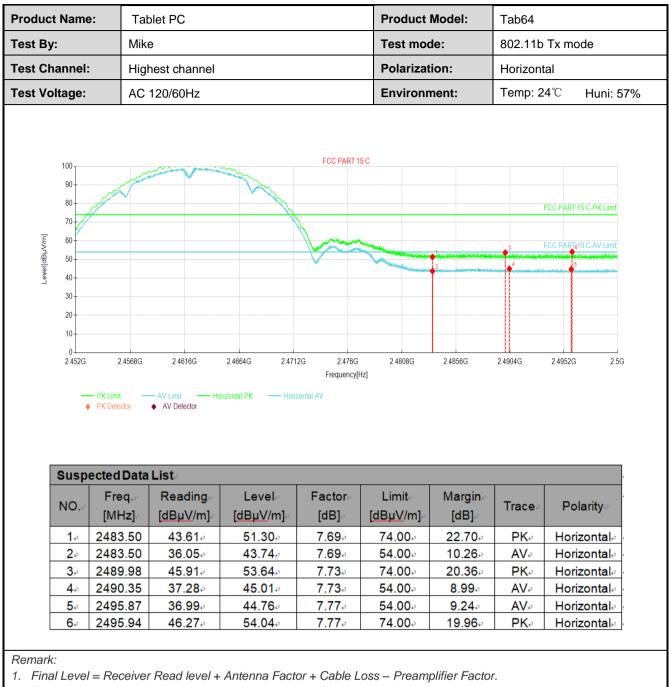






	e: Ta	blet PC			Product I	Model:	Tab64	
est By:	Mik	e			Test mod	le:	802.11b	Tx mode
est Channe	I: Hig	hest channel			Polarizati	ion:	Vertical	
est Voltage	: AC	120/60Hz			Environm	nent:	Temp: 2	24℃ Huni: 5
100 90 80 70 60 50 40		~~~~		FCC PART 1	5 C			FCC PART 15 C-PK Limit
30- 20- 10- 2.4520	<ul> <li>3 2.4568G</li> <li>PK Limit</li> <li>PK Detector</li> </ul>	2.4616G — AV Limit — Ve AV Detector	2.4664G 2.471 rtical PK — Vertical	Frequency[I	2.4808G 1z]	2.4856G	2 4904G	2.4952G 2.5G
30- 20- 10- 2.4520	PK Limit     PK Detector	AV Limit Ve		Frequency[I		2.4856G	2.4904G	24952G 25G
30- 20- 10- 2.4520	PK Limit - PK Detector -	AV Limit Ve		Frequency[I		2.4856G 2.4856G Margin⊷ [dB]∞	2.4904G	24952G 25G
30 20 10 2.452	PK Limit → PK Detector Pected Data Freq.e	AV Limit Ve ◆ AV Detector Liste Readinge	rical PK — Vertical	Frequency[/ AV Factor	lız] Limit⊮	Margin⊬		
30 20 10 2.452 Sus NO.	PK Limit     PK Detector     PK Detector     PK Detector     Freq     [MHz]→	AV Limit Ve AV Detector Ve	rtical PK — Vertical Level⊮ [dBµV/m]₽	Frequency[ AV Factor. [dB].	Limit [dBµV/m]	Margin⊮ [dB]∛	Trace	Polarity
30 20 10 2.452 Sus NO. 1.2	PK Limit → PK Detector	AV Limit Ve AV Detector List Reading [dBµV/m] 43.72.2	trical PK — Vertical Level⊷ [dBµV/m]∞ 51.41≁	Frequency[I AV Factor.4 [dB].4 7.69.4 7.69.4 7.74.4	Limit⊮ [dBµV/m]⊮ 74.00₽	Margin⊮ [dB]∉ 22.594	Trace.∞ PK.₀	Polarity -
30- 20- 10- 2.4520 Sus NO. 1.2 2.4	<ul> <li>▶ PK Limit</li> <li>▶ PK Detector</li> <li>▶ PK Detector</li> <li>▶ Freq</li> <li>▶ [MHz]</li> <li>▶ 2483.50</li> <li>▶ 2483.50</li> </ul>	AV Limit Ve ♦ AV Detector • AV Detector • List: Reading: [dBµV/m]: 43.72: 35.99:	Level [dBµV/m] 51.41+ 43.68+	Frequency[/ AV Factor [dB] 7.69 7.69	Limit [dBµV/m]→ 74.00↔ 54.00↔	Margin.₀ [dB]₀ 22.59.₀ 10.32.₀	Trace PK₂ AV₂	Polarity∞ Vertical∞ Vertical∞
30 20 10 2.452 Sus NO. 1.0 2.452 3.0	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>PK Detector</li></ul>	AV Limit Ve ♦ AV Detector • AV De	Level [dBµV/m] 51.41+ 43.68+ 44.69+	Frequency[I AV Factor.4 [dB].4 7.69.4 7.69.4 7.74.4	Limit [dBµV/m] 74.00- 54.00- 54.00-	Margin⊷ [dB]∘ 22.59.∘ 10.32.∘ 9.31.∘	Trace PK₂ AV₂ AV₂	Polarity∞ Vertical∞ Vertical∞ Vertical∞







802.11g mode:

	Name	. 10	ablet PC			Product	Model:	Tab64		
est By:	:	Mil	ke			Test mo	de:	802.11g	Tx mode	
est Ch	annel:	Lo	west channel			Polariza	tion:	Vertical		
est Vo	Itage:	AC	120/60Hz			Environ	ment:	Temp: 2	24℃ Hu	ni: 57%
Level[dBµV/m]	100 90 80 70 60 50 40	unan a chi	2 First of the state of the sta		FCC PART 15				CC PART 15 C-PK L	
Γ		PK Detector	AV Detector	2.3436G 2.354 rtical PK — Vertical	Frequency[H		2.3884G	2.3996G	2.4108G	2.422G
F	20 10 0 2.31G	PK Limit PK Detector	AV Limit Ve     AV Detector	rtical PK — Vertical	Frequency[H	z]		2.3996G		4
	20 10 0 2.31G	PK Limit     PK Detector	AV Limit → Ve     AV Detector		Frequency[H	z] Limit	2.3884G Margin. [dB].	2.3996G	2.4108G Polarity	4
	20 10 2.31G	PK Limit PK Detector	AV Limit Ve ◆ AV Detector Liste Readinge	rtical PK — Vertical	Frequency(H AV Factor-	z]	Margin			•
	20 10 2.31G Susp	ected Data Freq [MHz].	AV Limit Ve ♦ AV Detector • AV Detector • List Reading [dBµV/m]	rtical PK Vertical Level [dBµV/m].	Frequency[H AV Factor⊷ [dB]∘	z] Limit⊸ [dBµV/m]∞	Margin⊮ [dB]∘	Trace∞	Polarity	4 2 2 4
	20 10 0 2.31G • • • • • • • • • • •	ected Data Freq. [MHz] 2324.89	AV Limit Ve AV Detector List Reading [dBµV/m] 38.08	rtical PK — Vertical Level↓ [dBµV/m]↓ 44.94↓	Frequency(H AV Factor⊮ [dB]₽ 6.86₽	z] Limit- [dBµV/m]⊷ 54.00.∞	Margin.∉ [dB]∍ 9.06.₂	Trace.₀ AV.₀	Polarity Vertical₊	
	20 10 0 2.31G Susp NO.~ 1.~ 2.~	ected Data Freq [MHz] 2324.89 2324.93	AV Limit Ve ♦ AV Detector List: Reading: [dBµV/m]= 38.08: 46.01:	rtical PK	Frequency[H AV Factor [dB] 6.86.+- 6.86.+-	z] Limit- [dBµV/m]- 54.00 74.00	Margin.∉ [dB].∘ 9.06.∘ 21.13.∗	Trace AV	Polarity- Vertical₊ Vertical	
	20 10 0 2.31G Susp NO 1 2 3 3	ected Data Freq.~ [MHz].~ 2324.89 2326.18	AV Limit Ve ♦ AV Detector • AV De	Level [dBµV/m] 52.87+ 44.94+ 44.91+	Frequency[H AV Factor↓ [dB]↓ 6.86↓ 6.86↓ 6.97↓	z] Limit- [dBµV/m]→ 54.00↔ 74.00↔ 54.00↔	Margin. [dB] 9.06. 21.13. 9.09.	Trace.₀ AV.₀ PK.₀ AV.₀	Polarity Vertical Vertical Vertical	

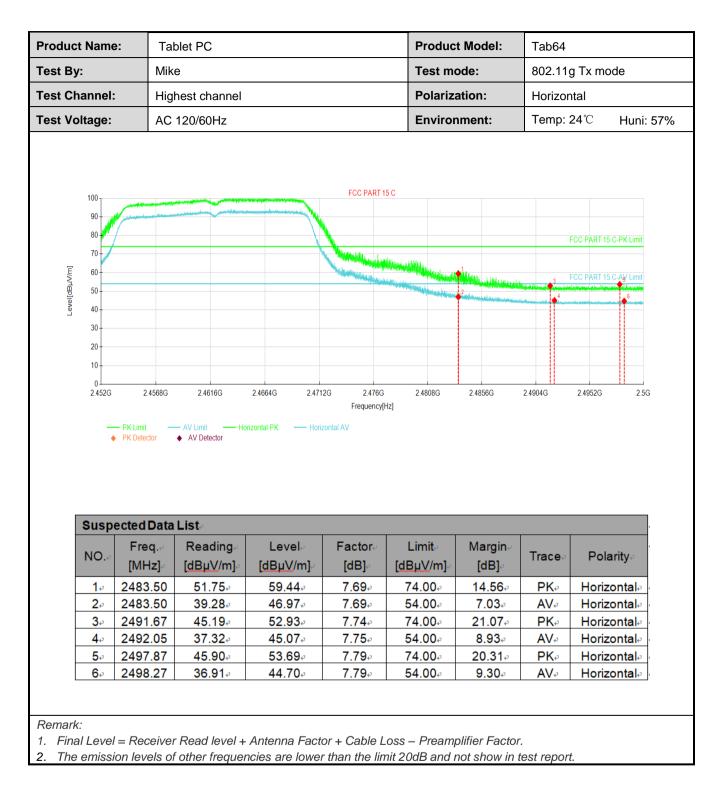


	Name	. 10	blet PC			Produc	t Model:	Tab64		
st By:		Mil	ke			Test me	ode:	802.11	g Tx mo	de
st Chai	nnel:	Lov	west channel			Polariza	ation:	Horizor	ntal	
st Volta	age:	AC	120/60Hz			Enviror	nment:	Temp: 2	<b>24</b> ℃	Huni: 57%
	100 90 80 70 60 50 <sup>10</sup> 410	And a strain married and statistic	2		FCC PART 1		and the sector		ECC PART 15 (	
Level	40 30 20 10 0 2.31G	2.3212G - PK Limit PK Detector	2.3324G	2.3436G 2.35- orizontal PK — Horiz	Frequency[H	2.3772G Z]	2.3884G	2.3996G	2.4108G	2.4226
	40 30 20 10 0 2.31G	- PK Limit —	— AV Limit — Ho		Frequency[H		2 3884G	2 3996G	2.4108G	2.422G
S	40 30 20 10 0 2.31G	- PK Limit PK Detector	— AV Limit — Ho		Frequency[H		2 3884G 2 3884G Margin [dB].	2.3996G	2.4108G	¥.
S	40 30 20 10 0 2.31G	ected Data Freq [MHz] 2325.70	AV Limit Ho AV Detector List Reading [dBµV/m] 38.00₄	Level⊶ [dBµV/m]∘ 44.86₊₂	Frequency(H zontal AV Factor [dB].2 6.86.2	z] Limit [dBµV/m]- 54.00	Margin.∉ [dB].₂ 9.14.∉	Trace.₀ AV.₀	Pola	rity o ntalo
S	40 30 20 10 0 2.31G	ected Data Freq.4 [MHz].2	AV Limit Ho AV Detector List Reading [dBµV/m]-	nizontal PK — Hori Level∝ [dBµV/m]∘	Frequency(H zontal AV Factor.et [dB].e	z] Limit⊮ [dBµV/m]∞	Margin⊮ [dB]₀	Trace	Pola	rity o ntalo
S	40 30 20 10 0 2.31G	ected Data Freq [MHz] 2325.70	AV Limit Ho AV Detector List Reading [dBµV/m] 38.00₄	Level [dBµV/m]∘ 44.86₊	Frequency(H zontal AV Factor [dB].2 6.86.2	z] Limit [dBµV/m]- 54.00	Margin.∉ [dB].₂ 9.14.∉	Trace.₀ AV.₀	Pola	rity ontal ontal
S	40 30 20 10 0 2.31G • • • • • • • • • • • • •	ected Data Freq.4 [MHz].9 2325.70 2326.05	AV Limit He AV Detector List Reading [dBµV/m] 38.00+ 46.16+	Level- [dBµV/m]- 44.86- 53.03-	Frequency(H zontal AV Factor [dB] 6.86 6.87	z] Limit [dBµV/m]- 54.00 74.00	Margin.₀ [dB]₀ 9.14.₀ 20.97.₀	Trace∉ AV∉ PK∉	Pola Horizo Horizo	rity ontal ontal
S	40 30 20 10 0 2.31G • • • • • • • • • • • • •	ected Data Freq.4 [MHz]4 2325.70 2326.05 2359.15	AV Limit Ho AV Detector Ho <b>List</b> Reading [dBµV/m] 38.00, 46.16, 38.09, 39.09, 38.09, 39.09, 38.09, 39.00, 39.00, 38.09, 39.00, 38.09, 39.00, 30.00,	Level₄ [dBµV/m]↔ 44.86↔ 53.03↔ 45.07↔	Frequency(H zontal AV Factor, [dB], 6.86, 6.87, 6.98, 3	z] Limit- [dBµV/m]∘ 54.00.∘ 74.00.∘ 54.00.∘	Margin.₀ [dB]₀ 9.14.₀ 20.97.₀ 8.93.₀	Trace AV∞ PK∞ AV∞	Pola Horizo Horizo	rity ontal ontal ontal



t By:		ablet PC			Product	Model:	Tab64	ļ
с Бу.	Mi	ke			Test mod	de:	802.11	1g Tx mode
t Channel	: Hię	ghest channel			Polarizat	tion:	Vertica	al
t Voltage:	AC	120/60Hz			Environm	nent:	Temp:	: 24°C Huni: 5
100 90 80 70 10 70 10 10 80 40 40				FCC PART 1				FCC PART 15 C-PK Limit
	── PK Limit ── ♦ PK Detector	AV Detector	2.4664G 2.471 ertical PK — Vertical	Frequency[H	2.4808G [z]	2.4856G	2.4904G	24952G 2.5G
	PK Limit PK Detector	- AV Limit Ve ♦ AV Detector Liste	ertical PK — Vertical	Frequency[F	IZ]		2.4904G	249526 256
	PK Limit → PK Detector	AV Limit → Ve     AV Detector		Frequency[H		2.4856G 2.4856G Margin∉ [dB]₂	2.4904G	24952G 2.5G
30 20 10 2.452G	PK Limit PK Detector	AV Limit Ve ♦ AV Detector Liste Readinge	ertical PK — Vertical	Frequency[F	Limit	Margin∉		
30 20- 10- 2.4520 2.4520 Susp NO.	PK Limit PK Detector PK Detector PK Detector PK Detector PK Umit Freq.∞ [MHz].∞	AV Limit Ve ♦ AV Detector Liste Readinge [dBµV/m]e	ertical PK — Vertical Level₂ [dBµV/m]₂	Frequency(F AV Factor, [dB]	IZ] Limit∞ [dBµV/m]∞	Margin⊮ [dB]₀	Trace	Polarity₀
30 20 10 2 4520 2 4520 <b>Susp</b> NO.	PK Limit PK Detector PK Detector PK Detector PK Detector PK Limit PK Limit PK Limit PK Detector	AV Limit Ve AV Detector List Reading [dBµV/m] 40.18-	Level⊷ [dBµV/m]∘ 47.87↔	Frequency(F AV Factor [dB],0 7.69,0	Limit [dBµV/m]• 54.00.•	Margin≓ [dB]≓ 6.13₽	Trace∍ AV⊷	Polarity∞ Vertical.∞
30- 20- 10- 2.4523 2.4523 NO. 10- NO.	PK Limit PK Detector PK Detector Freq [MHz] 2483.50 2483.50	- AV Limit Ve	Level [dBµV/m] 47.87↔ 60.23↔	Frequency(F AV Factor, [dB], 7.69, 7.69,	Limit [dBµV/m] 54.00¢ 74.00¢	Margin⊮ [dB]⊮ 6.13₽ 13.77₽	Trace∍ AV₊ PK₂	Polarity Vertical Vertical
30 20 10 0 2.4520 <b>Susp</b> NO. 1 2 3 3	PK Limit PK Detector PK Detector Freq [MHz] 2483.50 2483.50 2491.00	AV Limit Ve ♦ AV Detector <b>List</b> Reading [dBµV/m] 40.18 52.54 37.56 •	Evel→ [dBµV/m]→ 47.87↔ 60.23↔ 45.30↔	Frequency[F AV Factor [dB] 7.69 7.69 7.74	Limit. [dBµV/m]. 54.00. 74.00. 54.00.	Margin.⊮ [dB].⊮ 6.13.₽ 13.77.₽ 8.70.₽	Trace AV PK AV	Polarity₀ Vertical₀ Vertical₀ Vertical₀



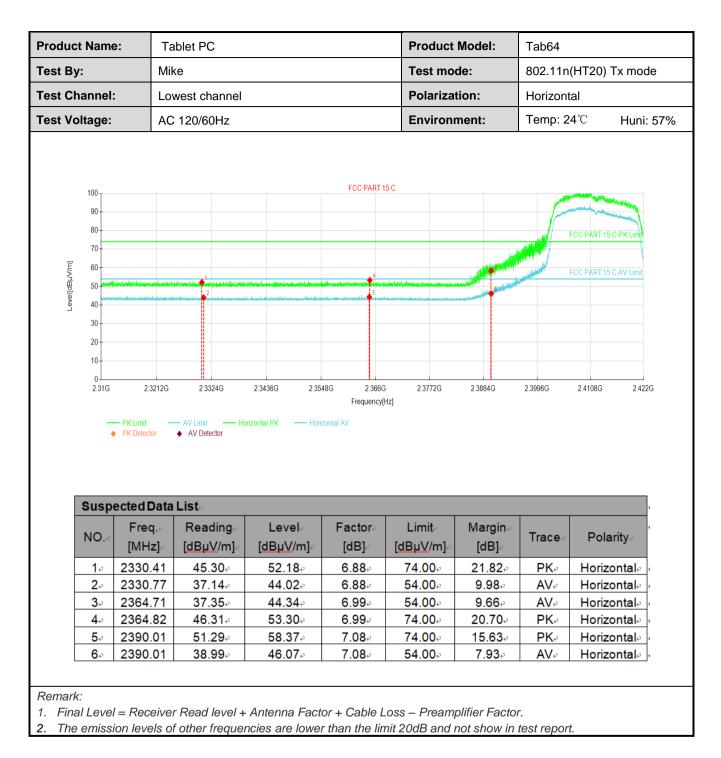




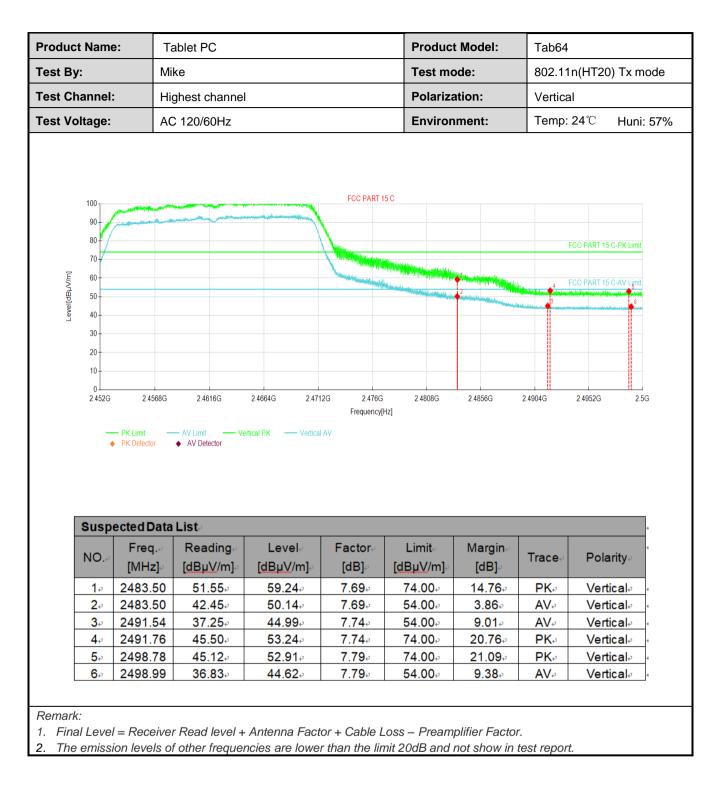
802.11n(HT20):

st By:					Product I	viouei.	Tab64		
	М	ke			Test mod	le:	802.11n	n(HT20) Tx m	ode
st Channe	l: Lo	west channel			Polarizati	ion:	Vertical		
st Voltage:	: A	120/60Hz			Environm	nent:	Temp: 2	24℃ Hun	i: 579
100 90 80 70 60 50 80 40 30	enter de seta de se			FCC PART 1:	5C	AND LOCATE OF CONTRACT	<b>///</b> /////////////////////////////////	FCC PART 15 C-PK Lim	
20 10 0 2.31G	2.321 PK Limit PK Detector		2.3436G 2.35 ertical PK — Vertical	Frequency[H		2.3884G	2.3996G	2.4108G 2.	422G
20 10 2.31G	— PK Limit	← AV Limit ← Vi ◆ AV Detector		Frequency[H		2.3884G	2.3996G	2.4108G 2.	422G
20 10 2.31G	PK Limit → PK Detector	AV Limit Vi AV Detector ta List Reading		Frequency[H		23884G	2.3996G	2.4108G 2.	422G
20 10 2316 Susp	PK Limit ◆ PK Detector → PK Detector → PK Detector	AV Limit AV Detector ta List Reading [dBµV/m]	ertical PK Vertical	Frequency[F	Iz]	Margin∉			422G
20 10 2316 Susp	PK Limit → PK Detector → PK Detector → PK Detector → PK Limit → PK Limit → PK Limit → PK Limit → PK Limit → PK Limit → PK Detector	AV LimitV	ertical PK — Vertical Level⊮ [dBµV/m]⊮	Frequency[F	iz] Limit⊭ [dBµV/m]∞	Margin⊮ [dB]₀	Trace	Polarity₀	4422G
20 10 2316 Susp NO.+	PK Limit → PK Detector → PK Detector → PK Detector → PK Detector → PK Limit → PK Limit → PK Limit → PK Limit → PK Detector	AV Limit	ertical PK — Vertical Level⊌ [dBµV/m]₽ 53.42₽	Frequency[F AV Factor⊌ [dB]₽ 6.89₽	لنسند. [dBµV/m]∘ 74.00₊	Margin⊮ [dB]∉ 20.58₽	Trace∍ PK₀	Polarity₀ Vertical₀	422G
20 10 0 231G Susp NO. 1.0 2.0	<ul> <li>→ PK Limit</li> <li>→ PK Detector</li> <li>→ PK Detector</li> <li>→ PK Detector</li> <li>→ PK Detector</li> <li>→ PK Limit</li> <li>→ PK Detector</li> <l< td=""><td>AV Limit AV Detector ta List∞ Reading [dBµV/m]∞ 5 46.53∞ 5 37.50∞ 1 45.75∞</td><td>ertical PK Vertical Level [dBµV/m]₀ 53.42₀ 44.39₀</td><td>Frequency[F</td><td>Limit.∕ [dBµV/m].∘ 74.00.∘ 54.00.∘</td><td>Margin.∉ [dB].∉ 20.58.₽ 9.61.₽</td><td>Trace∍ PK⊷ AV⊷</td><td>Polarity∍ Vertical₊∍ Vertical₊</td><td>422G</td></l<></ul>	AV Limit AV Detector ta List∞ Reading [dBµV/m]∞ 5 46.53∞ 5 37.50∞ 1 45.75∞	ertical PK Vertical Level [dBµV/m]₀ 53.42₀ 44.39₀	Frequency[F	Limit.∕ [dBµV/m].∘ 74.00.∘ 54.00.∘	Margin.∉ [dB].∉ 20.58.₽ 9.61.₽	Trace∍ PK⊷ AV⊷	Polarity∍ Vertical₊∍ Vertical₊	422G
20 10 0 2316 Susp NO.+ 1.+ 2.+ 3.+	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>PK Detector</li> <li>Preq.</li> <li>[MHz]</li> <li>2331.9</li> <li>2332.6</li> <li>2360.6</li> </ul>	AV Limit V AV Detector V AV Detector V ta List Reading [dBµV/m] 5 46.53 5 37.50 1 45.75 1 37.50 0	ertical PK	Frequency[F AV Factor [dB] 6.89 6.89 6.89 6.89 6.98 6.98	Limit [dBµV/m]∘ 74.00¢ 54.00¢ 74.00¢	Margin. [dB]₀ 20.58₀ 9.61₀ 21.27₀	Trace∍ PK₀ AV₀ PK₀	Polarity∍ Vertical₊ Vertical₊ Vertical₊	422G

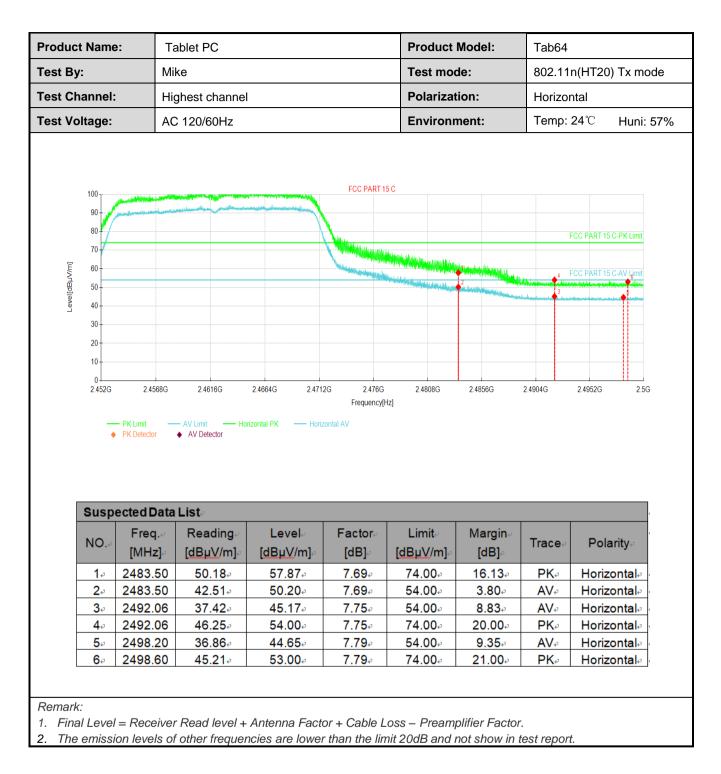










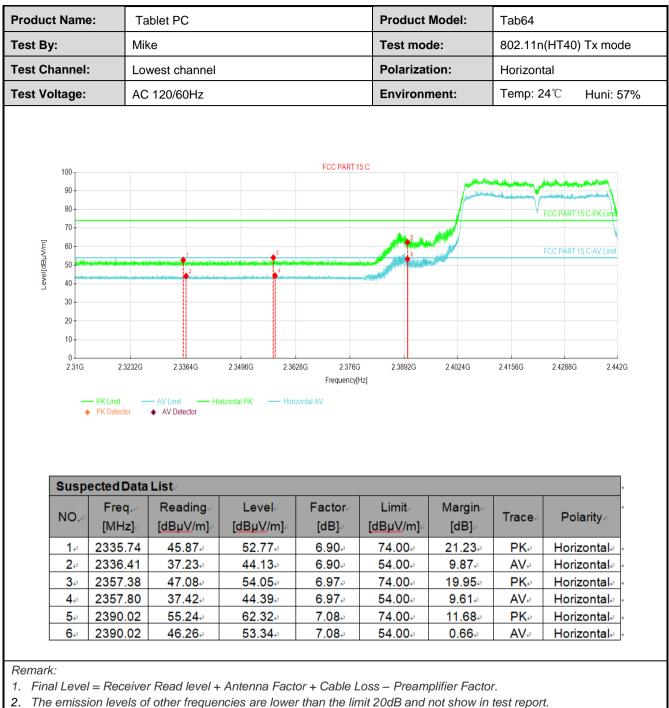




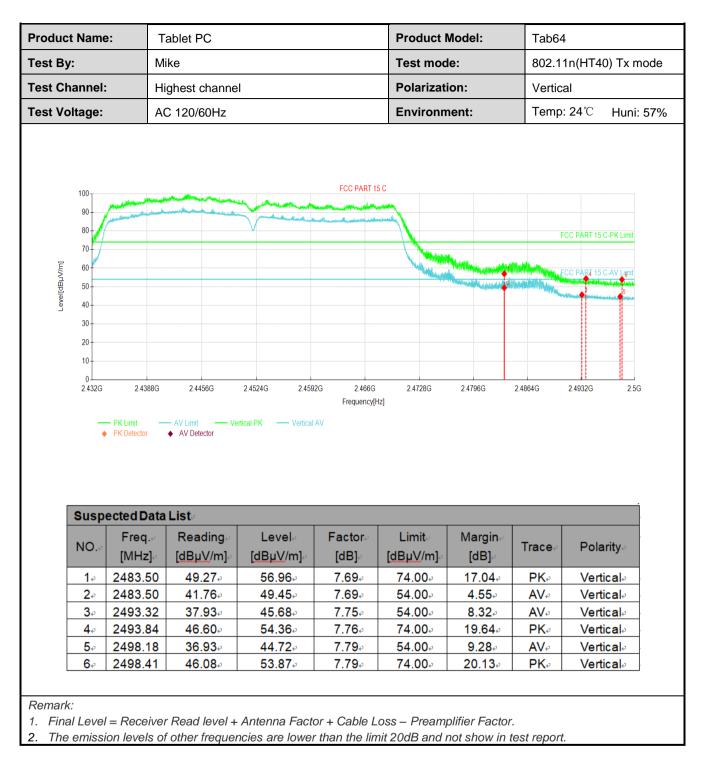
802.11n(HT40):

Product Name:			blet PC			Product	woder.	Tab64		
est By:		Mil	Mike				Test mode:		802.11n(HT40) Tx mode	
est Cha	annel	: Lo	Lowest channel				tion:	Vertical		
est Vol	Itage:	AC	120/60Hz			Environ	ment:	Temp:	<b>24</b> ℃	Huni: 579
Level[dBµV/m]	100 90 80 70 60 50 40					5 C			FCC PART 15 C	
		2.32320 — PK Limit • PK Detector	AV Limit V AV Detector	2.3496G 2.36 ertical PK — Vertica	28G 2.3760 Frequency[		2.4024G	2.4156G	2.4288G	2.442G
	20 10 0 2.316	PK Limit PK Detector	AV Limit V ◆ AV Detector	ertical PK — Vertica	Frequency[	Hz]		2.4156G	2.4288G	2.442G
	20 10 0 2.316	<ul> <li>PK Limit</li> <li>PK Detector</li> </ul>	AV Limit V AV Detector		Frequency[		2.4024G 2.4024G Margin⊮ [dB]₽	2.4156G	2.4288G Polar	
	20 10 2.31G	PK Limit PK Detector	AV Limit V ◆ AV Detector a List Reading [dBµV/m]	ertical PK — Vertica	Frequency[ IAV Factor⊷	<sup>Hz]</sup> Limit⊬	Margin≓			ity.₀
	20 10 0 2316 Susp	PK Limit PK Detector	AV Limit V ◆ AV Detector a List Reading [dBµV/m]	ertical PK Vertica Level⊮ [dBµV/m]⊮	Frequency[ IAV Factor [dB]	<sup>Hz]</sup> Limit⊸ [dBµV/m]→	Margin⊮ [dB]₀	Trace	Polar	ity∞ cal∞
	20 10 0 231G Susp NO 1	<ul> <li>PK Limit</li> <li>PK Detector</li> </ul>	AV Limit	ertical PK — Vertica Level⊷ [dBµV/m]∘ 52.53.₀	Frequency[ IAV Factor. [dB]. 6.87.	Limit [dBµV/m]⊷ 74.00∞	Margin.∉ [dB].₂ 21.47₊	Trace.₀ PK.₀	Polar Vertic	ity∞ cale
	20 10 0 2316 Susp NO.~ 1.~ 2.~	PK Limit PK Detector ected Dat Freq [MHz] 2327.53 2327.68	AV Limit V AV Detector V AV Detector a List Reading [dBµV/m] 45.66. 37.58.	ertical PK — Vertica Level [dBµV/m]= 52.53= 44.45=	Frequency[ AV Factor. [dB]. 6.87. 6.87.	Limit [dBµV/m]∘ 74.00₊ 54.00₊	Margin.∉ [dB].∉ 21.47.∉ 9.55.∉	Trace.₀ PK.₀ AV.₀	Polar Vertic Vertic	ity cal cal
	20 10 0 2.316 Susp NO.~ 1.~ 2.~ 3.~	<ul> <li>PK Limit</li> <li>PK Detector</li> </ul>	AV Limit	ertical РК — Vertica [dBµV/m]¢ 52.53¢ 44.45¢ 44.21¢	Frequency[ AV Factor,- [dB],- 6.87,- 6.87,- 6.95,-	Limit [dBµV/m] 74.00 54.00 54.00	Margin.₄ [dB]₄ 21.47₊ 9.55₊ 9.79₊	Trace PKe AVe AVe	Polar Vertic Vertic Vertic	ity











Product	t Name	e:   7	ablet PC			Product	Model:	Tab64	ļ		
est By:	est By:		Mike			Test mo	Test mode:		802.11n(HT40) Tx mode		
est Ch	annel	: н	ighest channe	1		Polariza	tion:	Horizo	ontal		
est Vo	Itage:	A	C 120/60Hz			Environ	ment:	Temp	: <b>24</b> ℃	Huni: 57%	
Level[dB,JV/m]	100 90 80 70 60 50 40 30				FCC PART 1	5 C		Hilling Constant of the second se	FCC PART 15 C		
	20 10 0 2.432G	2.43886 – PK Limit • PK Detector	2.4456G AV Limit — Ho ♦ AV Detector	2.4524G 2.459 prizontal PK — Horiz	22G 2.466G Frequency[ zontal AV		2.4796G	2 4864G	2.4932G	2.56	
	20 10 0 2.432G	PK Limit	AV Limit Ho AV Detector		Frequency[I		2.4796G	2.4864G	2.4932G	2.5G	
	20 10 0 2.432G	— PK Limit -	AV Limit Ho AV Detector		Frequency[I		2.4796G Margin⊷ [dB]⊷	24864G	2.4932G Polar		
	20 10 0 2 432G Susp NO.~	ected Date Freq.~ [MHz]~ 2483.50	AV Limit Ho AV Detector Ho AV Detector A List Reading [dBµV/m] 48.94.2	Level⊷ [dBµV/m]∘ 56.63≁	Frequency[ zontal AV Factor [dB] 7.69	Limit [dBµV/m] 74.00.2	Margin.⊸ [dB]₀ 17.37₊₀	Trace∍ PK-	Polar Horizo	ity∉ ntal∉	
	20 10 0 2.432G Susp	PK Limit     PK Detector	AV Limit → Ho AV Detector →	orizontal PK — Hori: Level⊮ [dBµV/m]⊮	Frequency[ zontal AV Factor, [dB], 7.69, 7.69,	Limit. [dBµV/m]↔ 74.00↔ 54.00↔	Margin⊮ [dB]∛	Trace	Polar	ity∉ ntal∉	
	20 10 0 2 432G Susp NO.~	ected Date Freq.~ [MHz]~ 2483.50	AV Limit Ho AV Detector Ho AV Detector A List Reading [dBµV/m] 48.94.2	Level⊷ [dBµV/m]∘ 56.63≁	Frequency[ zontal AV Factor,₀ [dB],₀ 7.69,₀ 7.69,₀ 7.75,₀	Limit [dBµV/m] 74.00.2	Margin.⊸ [dB]₀ 17.37₊₀	Trace∍ PK-	Polar Horizo Horizo Horizo	ity	
	20 10 0 2.432G Susp NO.~ 1.~ 2.*	PK Limit     PK Detector	AV Limit → Ho AV Detector →	Level→ [dBµV/m]→ 56.63↔ 48.82↔	Frequency[ zontal AV Factor, [dB], 7.69, 7.69,	Limit. [dBµV/m]↔ 74.00↔ 54.00↔	Margin. [dB]. 17.37₊ 5.18₊	Trace₀ PK₀ AV₀	Polar Horizo Horizo	ity	
	20 10 0 2.432G NO	<ul> <li>PK Limit</li> <li>PK Detector</li> </ul>	AV Limit Ho AV Detector Ho AV Detector AV Detector AV Detector A List ○ Reading ○ [dBµV/m] ○ 48.94 ○ 41.13 ○ 46.34 ○ 38.28 ○	Level→ [dBµV/m]→ 56.63→ 48.82→ 54.09→	Frequency[ zontal AV Factor,₀ [dB],₀ 7.69,₀ 7.69,₀ 7.75,₀	Limit [dBµV/m]• 74.00.• 54.00.• 74.00.•	Margin. [dB]. 17.37. 5.18. 19.91.	Trace PK₂ AV₂ PK₂	Polar Horizo Horizo Horizo	ity∞ ntal∞ ntal∞ ntal∞ ntal∞	



# 6.7 Spurious Emission

#### 6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 2.4G WIFI



#### 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m or 10m						
Receiver setup:	Frequency	Dete	ctor	RBW	V	BW	Remark
	30MHz-1GHz	Quasi	-peak	120KHz	300	OKHz	Quasi-peak Value
		Pea	ak	1MHz	31	ИНz	Peak Value
	Above 1GHz	RM	1S	1MHz	31	ИНz	Average Value
Limit:	Frequency		Limit	(dBuV/m @10	)m)		Remark
	30MHz-88MH	z		30.0		Q	uasi-peak Value
	88MHz-216MH	Ηz		33.5			uasi-peak Value
	216MHz-960M			36.0			uasi-peak Value
	960MHz-1GH	z		44.0		Q	uasi-peak Value
	Frequency		Limi	t (dBuV/m @3	m)		Remark
	Above 1GHz	<u>.</u>		54.0			Average Value
				74.0			Peak Value
Test Procedure:	<ol> <li>1GHz)/1.5m(a (below 1GHz) 360 degrees</li> <li>The EUT was away from th the top of a van 3. The antenna ground to det horizontal and measuremen</li> <li>For each sus and then the and the rota to maximum reas</li> <li>The test-rece Specified Bar</li> <li>If the emission limit specified the EUT woul 10dB margin average meth</li> </ol>	above 1 )or 3 me to detern s set 10 he interfe ariable-h height is ermine t d vertica t. pected e antenna able was ading. iver syst n level o l, then te ld be rep would b	GHz) a eter cha mine the meters erence-in height a s varied the max l polariz emission was tu s turned the El esting co ported. (	above the gro imber(above e position of t s(below 1GH receiving ant ntenna tower from one me timum value of zations of the n, the EUT waned to height d from 0 degr s set to Peak aximum Hold UT in peak mo ould be stopp Otherwise the sted one by o	ound 1GHz the hi z) or enna, c. eter to of the ante as arr rees to Dete Mode ode v oed ar e emis ne us	at a 1 z). The ghest r 3 me , which o four m field st nna are ranged n 1 me o 360 c ct Fund s. was 100 nd the p ssions ing pea	ters (above 1GHz) was mounted on heters above the trength. Both e set to make the to its worst case ter to 4 meters degrees to find the ction and dB lower than the peak values of that did not have ak, quasi-peak or
Test setup:	Below 1GHz		4m> 1m			Ante Searc Anter RF Test Receive	nna

Project No.: JYTSZE2108062



#### Report No: JYTSZB-R12-2101604

	Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	<ol> <li>Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li> <li>9 kHz to 30MHz is lower than the limit 20dB, so only shows the data of above 30MHz in this report.</li> </ol>



#### Measurement Data (worst case):

#### Below 1GHz:

oduct Name	י: ד	Tablet PC			Produ	Product Model:		Tab64		
st By:	N	Mike			Test m	node:	mode			
st Frequency: 30 MHz ~ 1 GHz				Polaria	zation:	Vertical	& Horizontal			
st Voltage:	А	C 120/60Hz			Enviro	onment:	Temp: 24	4℃ Huni: 5		
				FullSpec	tru m					
45	5_						FCC PART	15.247 10m		
40	o∔									
	_									
30										
								*		
Level in dBµV/										
, <u> </u>	o∔+		*	u.			*			
e	*	*	/ 1				with a shirt of the state			
Leo L		Warn In Mary	<u> </u>	' <b>\</b> #		التقادل أبلع بالمر	Adultation			
10			14.1			Same on the second				
	MAL AMAIN			and the party is the state of the		Charles of a second second				
				1						
(	T									
		+ +	+++			+ +		+ + - +		
;	30M	50 60	80 100N	1	200	300 40	0 500	800 1G		
				Freque	ncy in Hz					
,										
Criti	cal_Fr	ens								
	quency.	G G G - MaxPeak↓	Limit↓	Margin↓	Height↓	Pol₽	Azimuth↓	Corr.↓ .		
	MHz)∉	(dB	(dB	(dB).₀	(cm)		(deg)	(dB/m)↩		
•	37.663000	15.43	30.00↔	<b>14.57</b> ₽	<b>100.0</b> ₽		<b>0.0</b> 42	<b>-16.1</b> *		
	956.641000		36.00↩	<b>9.06</b> ₽	<b>100.0</b> ₽		<b>0.0</b> 43	<b>0.0</b> 4 <sup>3</sup> *		
	540.026000		36.00	14.64	100.0		67.0↩	-8.0+3*		
<b>–</b>	53.765000		30.00₽	15.03 <i>-</i>	100.0		191.0 <b></b> ₽	-15.9 <b>₽</b> *		
	104.884000		33.50√ 23.50√	12.26	<u>100.0</u> ₽		258.0 238.0	-18.4.		
<b></b>	168.419000	P <b>13.96</b> ₽	<b>33.50</b> ₽	<b>19.54</b> ₽	<b>100.0</b> ₽	V₽	<b>338.0</b> ₽	<b>-16.2</b> ₽		

- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



#### Above 1GHz

			802.11b			
			annel: Lowest ch			
		De	tector: Peak Valu			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	54.32	-9.46	44.86	74.00	29.14	Vertical
4824.00	53.80	-9.46	44.34	74.00	29.66	Horizonta
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	46.62	-9.46	37.16	54.00	16.84	Vertical
4824.00	46.42	-9.46	36.96	54.00	17.04	Horizonta
			annel: Middle ch			
	1	De	tector: Peak Valu	le	1	-1
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	54.46	-9.11	45.35	74.00	28.65	Vertical
4874.00	53.73	-9.11	44.62	74.00	29.38	Horizonta
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizati
4874.00	46.15	-9.11	37.04	54.00	16.96	Vertical
4874.00	46.20	-9.11	37.09	54.00	16.91	Horizonta
		Tastab	annel: Highest cl			
			tector: Peak Valu			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4924.00	53.82	-8.74	45.08	74.00	28.92	Vertical
4924.00	53.67	-8.74	44.93	74.00	29.07	Horizonta
			ctor: Average Va			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
(····· · <b>=</b> )		0.74	37.57	54.00	16.43	Vertical
4924.00	46.31	-8.74	57.57	54.00	10.40	Vortioui



		Tost ch	802.11g annel: Lowest ch	annel		
			tector: Peak Valu			
Frequency	Read Level	De	Level	Limit Line	Margin	
(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	Polarization
4824.00	53.57	-9.46	44.11	74.00	29.89	Vertical
4824.00	53.69	-9.46	44.23	74.00	29.77	Horizonta
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	46.08	-9.46	36.62	54.00	17.38	Vertical
4824.00	45.99	-9.46	36.53	54.00	17.47	Horizonta
			annel: Middle ch tector: Peak Valu			
Frequency	Read Level	DC	Level	Limit Line	Margin	
(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	Polarizatio
4874.00	53.57	-9.11	44.46	74.00	29.54	Vertical
4874.00	53.69	-9.11	44.58	74.00	29.42	Horizonta
	T	Dete	ctor: Average Va	alue	1	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	45.67	-9.11	36.56	54.00	17.44	Vertical
4874.00	46.24	-9.11	37.13	54.00	16.87	Horizonta
			annel: Highest cl tector: Peak Valu			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4924.00	53.73	-8.74	44.99	74.00	29.01	Vertical
4924.00	53.56	-8.74	44.82	74.00	29.18	Horizonta
		Dete	ctor: Average Va	lue	1	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4924.00	45.59	-8.74	36.85	54.00	17.15	Vertical
4924.00	45.79	-8.74	37.05	54.00	16.95	Horizonta
	Receiver Read level levels of other frequ		er than the limit 200	dB and not show in te	est report.	



			802.11n(HT20)			
			annel: Lowest ch			
<b></b>		De	tector: Peak Valu		Maria	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	54.12	-9.46	44.66	74.00	29.34	Vertical
4824.00	53.13	-9.46	43.67	74.00	30.33	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	45.70	-9.46	36.24	54.00	17.76	Vertical
4824.00	46.01	-9.46	36.55	54.00	17.45	Horizonta
		Test ch	annel: Middle ch	annel		
			ector: Peak Valu			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	54.09	-9.11	44.98	74.00	29.02	Vertical
4874.00	53.22	-9.11	44.11	74.00	29.89	Horizonta
	1	Dete	ctor: Average Va	lue	•	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	45.23	-9.11	36.12	54.00	17.88	Vertical
4874.00	46.16	-9.11	37.05	54.00	16.95	Horizonta
		Test cha	annel: Highest ch	nannel		
	1	Det	ector: Peak Valu	le	1	-
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4924.00	54.46	-8.74	45.72	74.00	28.28	Vertical
4924.00	53.56	-8.74	44.82	74.00	29.18	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4924.00	45.33	-8.74	36.59	54.00	17.41	Vertical
4924.00	45.98	-8.74	37.24	54.00	16.76	Horizonta



			802.11n(HT40) annel: Lowest ch	oppol		
			tector: Peak Valu			
Fraguanay	Read Level	Dei	Level	Limit Line	Morgin	
Frequency (MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	Margin (dB)	Polarizatio
4844.00	54.50	-9.32	45.18	74.00	28.82	Vertical
4844.00	53.43	-9.32	44.11	74.00	29.89	Horizonta
		Dete	ctor: Average Va	lue		-
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4844.00	45.20	-9.32	35.88	54.00	18.12	Vertical
4844.00	46.21	-9.32	36.89	54.00	17.11	Horizonta
		Test ch	annel: Middle ch	annel		
		Det	ector: Peak Valu	е		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	54.52	-9.11	45.41	74.00	28.59	Vertical
4874.00	52.96	-9.11	43.85	74.00	30.15	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	45.00	-9.11	35.89	54.00	18.11	Vertical
4874.00	46.67	-9.11	37.56	54.00	16.44	Horizonta
		Test cha	annel: Highest ch	annel		
		Det	ector: Peak Valu	е		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4904.00	54.83	-8.90	45.93	74.00	28.07	Vertical
4904.00	52.83	-8.90	43.93	74.00	30.07	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4904.00	44.50	-8.90	35.60	54.00	18.40	Vertical
4904.00	47.11	-8.90	38.21	54.00	15.79	Horizonta



# 8 EUT Constructional Details

Reference to the test report No.: JYTSZB-R12-2101600

-----End of report-----