

# 🥉 Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE170604803

# **FCC REPORT**

(WIFI)

**Applicant:** APRIX LATINOAMERICA S.A.

Address of Applicant: ADVANCED 099 BLDG SUITE 4 C CALLE BEATRIZ M DE

CABAL PANAMA

**Equipment Under Test (EUT)** 

Product Name: Tablet PC

Aprix Tab64C, Aprix Tab64A, Aprix Tab64B, Aprix Tab64D,

Model No.: Aprix Tab64E, 64A, 64B, 64C, 64D, 64E, A10, A101, B10, B101,

APT10, APT101, AX10, BX10

Trade mark: APRIX

FCC ID: 2AHJQ-APT67A

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 12 June, 2017

Date of Test: 12 June, to 05 July, 2017

**Date of report issued:** 06 July, 2017

Test Result: PASS\*

#### 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 CCIS 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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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.





# 2 Version

Version No.	Date	Description
00	06 July, 2017	Original

Tested by:	YT Tang	Date:	06 July, 2017
	Test Engineer		
Reviewed by:	Ryan. Lee	Date:	06 July, 2017
	Project Engineer		



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# 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

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





# 5 General Information

# **5.1 Client Information**

Applicant:	APRIX LATINOAMERICA S.A.
Address of Applicant:	ADVANCED 099 BLDG SUITE 4 C CALLE BEATRIZ M DE CABAL PANAMA
Manufacturer:	Todos industrial limited
Address of Manufacturer:	Room 308, Building #5, Cofoc (Fuan) Robotics Industrial Park, No.90, Dayang Road, Fuyong Street, Shenzhen City, P.R. China

# 5.2 General Description of E.U.T.

Product Name:	Tablet PC		
Model No.:	Aprix Tab64C, Aprix Tab64A, Aprix Tab64B, Aprix Tab64D, Aprix Tab64E, 64A, 64B, 64C, 64D, 64E, A10, A101, B10, B101, APT10, APT101, AX10, BX10		
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))		
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)		
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:	0dBi		
Power supply:	Rechargeable Li-ion Battery DC3.7V-7000mAh		
AC adapter:	Model: BY120502000 Input: AC100-240V 50/60Hz 0.3A Output: DC 5.0V, 2A		
Remark:	The No.: Aprix Tab64C,Aprix Tab64A,Aprix Tab64B,Aprix Tab64D, AprixTab64E,64A,64B,64C,64D,64E,A10,A101,B10,B101,APT10,1,AX10,BX10 etc. were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.		





Operation Frequency each of channel For 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation	Operation Frequency each of channel For 802.11n(H40)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
		5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

# 802.11b/802.11g/802.11n (H20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

# 802.11n (H40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz



5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Operation mode	Keep the EUT in continuous transmitting with modulation

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 in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

#### **Final Test Mode:**

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20) and 13.5 Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

# 5.4 Measurement Uncertainty

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

# 5.5 Laboratory Facility

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

### • FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

#### • IC - Registration No.: 10106A-1

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

### • CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

Report No: CCISE170604803



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testing. The Registration No. is CNAS L6048.

# 5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Website: http://www.ccis-cb.com

Tel: +86-755-23118282 Fax:+86-755-23116366 Email: info@ccis-cb.com





# 5.7 Test Instruments list

Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017		
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	02-25-2017	02-24-2018		
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	02-25-2017	02-24-2018		
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	02-25-2017	02-24-2018		
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	02-25-2017	02-24-2018		
6	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	02-25-2017	02-24-2018		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	02-25-2017	02-24-2018		
8	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	02-25-2017	02-24-2018		
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	02-25-2017	02-24-2018		
10	Loop antenna	Laplace instrument	RF300	EMC0701	02-25-2017	02-24-2018		
11	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
12	Coaxial Cable	N/A	N/A	CCIS0018	02-25-2017	02-24-2018		
13	Coaxial Cable	N/A	N/A	CCIS0020	02-25-2017	02-24-2018		

Cond	Conducted Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	02-25-2017	02-24-2018			
3	LISN	CHASE	MN2050D	CCIS0074	02-25-2017	02-24-2018			
4	Coaxial Cable	CCIS	N/A	CCIS0086	02-25-2017	02-24-2018			
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			



# 6 Test results and Measurement Data

# **6.1 Antenna requirement:**

# Standard requirement: FCC Part 15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### E.U.T Antenna:

The WiFi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 0 dBi.







# 6.2 Conducted Emission

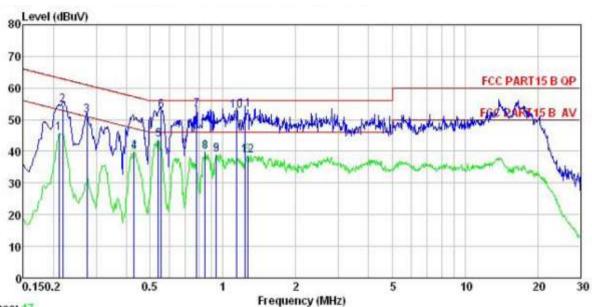
Test Requirement:	FCC Part 15 C Section 1	5.207				
Test Method:	ANSI C63.4: 2014	ANSI C63.4: 2014				
Test Frequency Range:	150 kHz to 30 MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9 kHz, VBW=30 k	RBW=9 kHz, VBW=30 kHz				
Limit:	Frequency range	Limit (	dBuV)			
Ziiiitt.	(MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the log	arithm of the frequency.				
Test procedure	line impedance stab 50ohm/50uH couplin 2. The peripheral device a LISN that provides termination. (Please photographs). 3. Both sides of A.C. li interference. In order	a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).				
Test setup:	AUX Equipment  Test table/Insula  Remark E.U.T. Equipment Under LISN Line Impedence St. Test table height=0.8m	E.U.T  EMI Receiver	Ilter — AC power			
Test Instruments:	Refer to section 5.6 for d	letails				
Test mode:	Refer to section 5.3 for d	letails				
Test results:	Passed					





#### **Measurement Data:**

#### Neutral:



Trace: 17

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

: Tablet PC : Aprix Tab64C EUT Model

Test Mode : 2.4GWIFI mode Power Rating : AC120V/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: YT Remark

cemark								
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	−−−dB	₫B	dBuV	dBu₹	₫₿	
1	0.211	34.82	0.16	10.76	45.74	53.18	-7.44	Average
2	0.219	43.67	0.16	10.76	54.59	62.88	-8.29	QP
3	0.274	40.42	0.18	10.74	51.34	60.98	-9.64	QP
4	0.431	28.94	0.23	10.73	39.90	47.24	-7.34	Average
5	0.541	32.56	0.26	10.76	43.58	46.00		Average
6	0.555	41.82	0.27	10.77	52.86	56.00	-3.14	QP
1 2 3 4 5 6 7 8 9	0.779	42.09	0.31	10.80	53.20	56.00	-2.80	QP
8	0.844	28.68	0.29	10.82	39.79	46.00	-6.21	Average
9	0.938	27.80	0.27	10.85	38.92	46.00		Average
10	1.141	41.62	0.26	10.89	52.77	56.00	-3.23	QP
11	1.236	42.11	0.26	10.90	53.27	56.00	-2.73	QP
12	1.262	27.53	0.26	10.90	38.69	46.00		Average

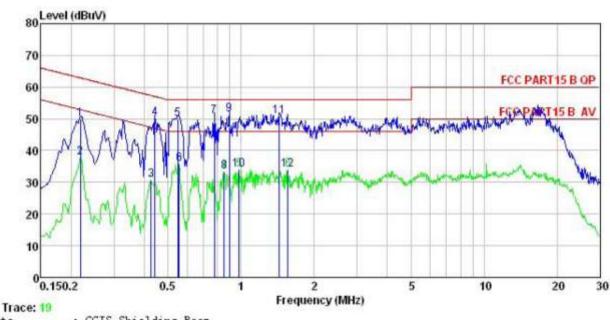
#### Notes:

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.





### Line:



Site : CCIS Shielding Room Condition : FCC PART15 B QP LISN LINE EUT : Tablet PC

EUT : Tablet PC
Model : Aprix Tab64C
Test Mode : 2.4GWIFI mode
Power Rating : AC120V/60Hz

Power Rating: AC120V/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: YT

Remark

Remark	:							
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	₫B	₫B	dBuV	dBu∀	dB	
1	0.219	38.99	0.15	10.76	49.90	62.88	-12.98	QP
2	0.219	27.02	0.15	10.76	37.93	52.88	-14.95	Average
3	0.426	19.59	0.24	10.73	30.56	47.33	-16.77	Average
4	0.442	39.22	0.24	10.74	50.20	57.02	-6.82	QP
1 2 3 4 5 6 7 8	0.549	38.99	0.26	10.77	50.02	56.00	-5.98	QP
6	0.555	24.56	0.26	10.77	35.59	46.00	-10.41	Average
7	0.775	39.76	0.30	10.80	50.86		-5.14	
8	0.853	22.19	0.29	10.83	33.31	46.00	-12.69	Average
9	0.894	40.17	0.28	10.84	51.29	56.00	-4.71	QP
10	0.984	22.83	0.26	10.87	33.96	46.00	-12.04	Average
11	1.441	39.69	0.29	10.92	50.90	56.00		
12	1.560	22.60	0.30	10.93	33.83	46.00		Average

#### Notes:

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



# **6.3 Conducted Output Power**

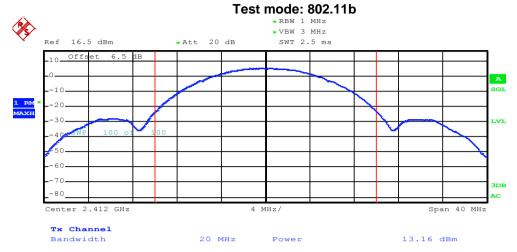
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 9.2.2.2		
Limit:	30dBm		
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

# **Measurement Data:**

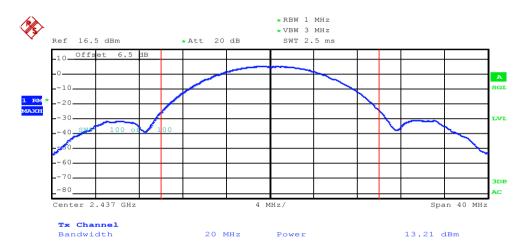
Test CH	Ma	aximum Conduct	Limit(dBm)	Result		
	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(ubm)	Nesuit
Lowest	13.16	9.55	9.51	7.44		
Middle	13.21	10.23	10.18	8.24	30.00	Pass
Highest	13.19	9.24	9.27	7.27		



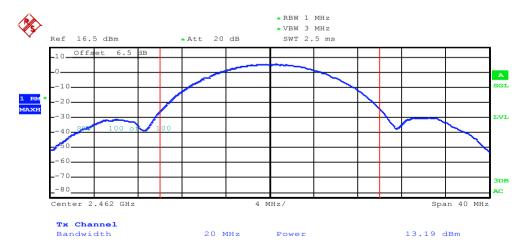
# Test plot as follows:



### Lowest channel

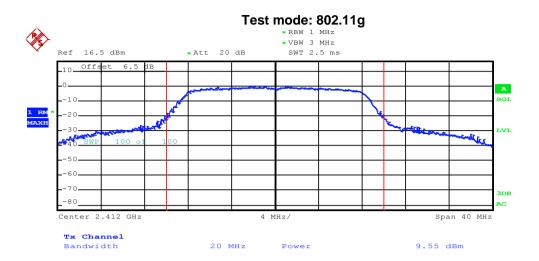


### Middle channel



Highest channel





### Lowest channel

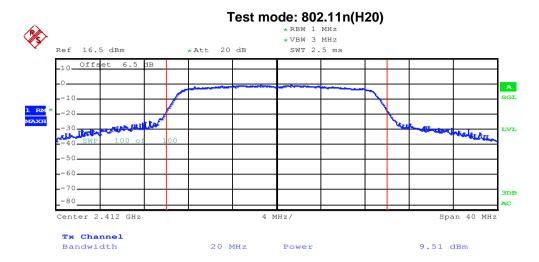


#### Middle channel

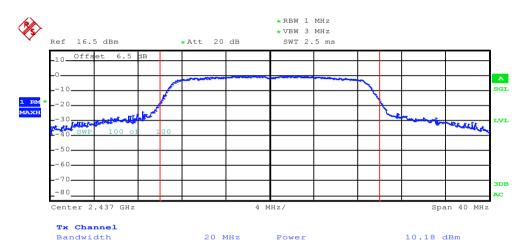


Highest channel

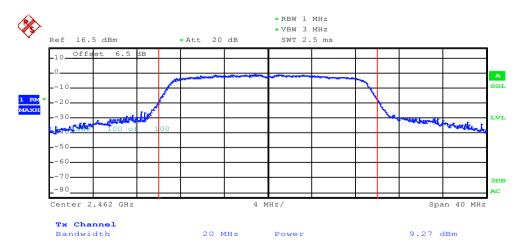




### Lowest channel

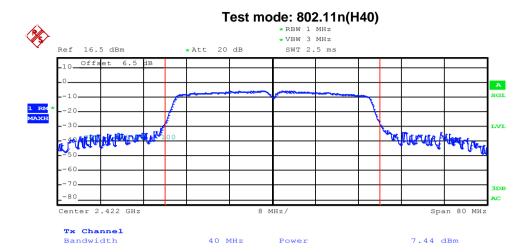


### Middle channel



Highest channel

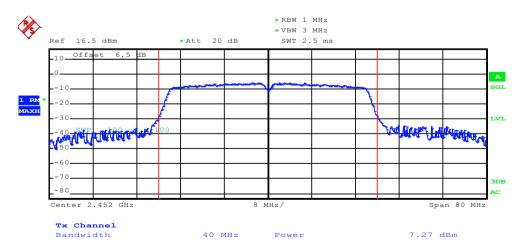




# Lowest channel



#### Middle channel



Highest channel





# 6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 8.1		
Limit:	>500kHz		
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

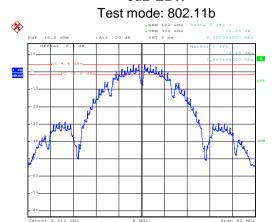
### **Measurement Data:**

Test CH		6dB Emission	Bandwidth (MHz)		Limit(kHz)	Result
1031 011	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(Kriz)	result
Lowest	9.20	16.00	16.40	35.68		Pass
Middle	9.20	16.00	17.12	34.24	>500	
Highest	9.28	15.60	16.08	35.52		
Test CH		99% Occupy	Limit(kHz)	Result		
1031 011	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Liiiii(Ki iZ)	Result
Lowest	14.72	16.48	17.60	36.16		
Lowest Middle	14.72 14.16	16.48 16.48	17.60 17.68	36.16 36.16	N/A	N/A



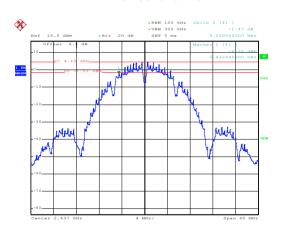
# Test plot as follows:

### 6dB EBW



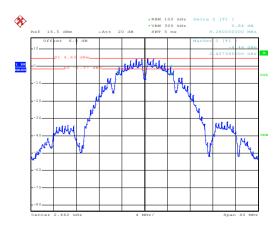
Date: 15.JUN.2017 15:36:59

# Lowest channel



Date: 15.JUN.2017 15:37:49

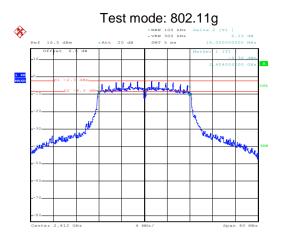
# Middle channel



Date: 15.JUN.2017 15:39:00

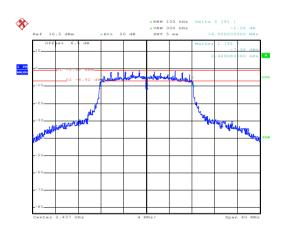
Highest channel





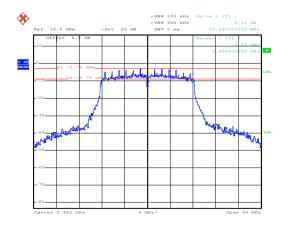
Date: 15.JUN.2017 15:40:29

# Lowest channel



Date: 15.JUN.2017 15:41:06

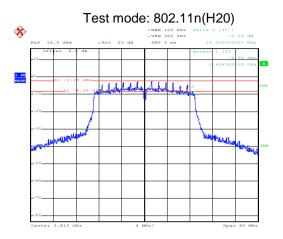
### Middle channel



Date: 15.JUN.2017 15:41:50

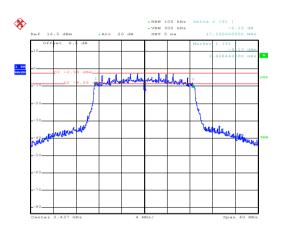
Highest channel





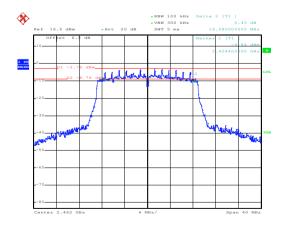
Date: 15.JUN.2017 15:42:41

# Lowest channel



Date: 15.JUN.2017 15:44:03

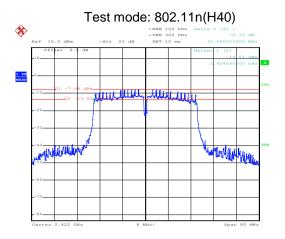
### Middle channel



Date: 15.JUN.2017 15:44:45

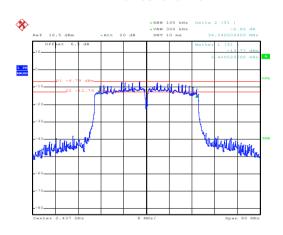
Highest channel





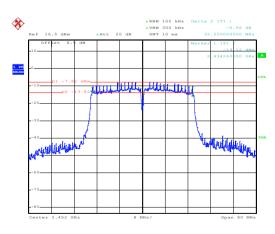
Date: 15.JUN.2017 15:45:35

# Lowest channel



Date: 15.JUN.2017 15:46:46

### Middle channel

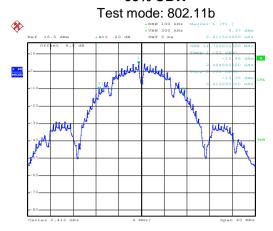


Date: 15.JUN.2017 15:47:32

Highest channel

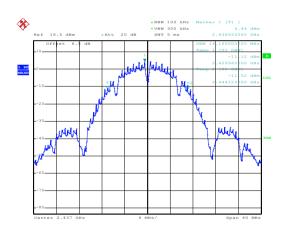






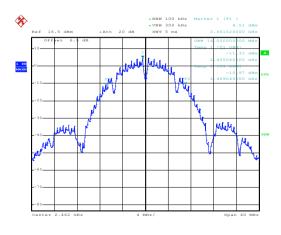
Date: 15.JUN.2017 15:48:35

# Lowest channel



Date: 15.JUN.2017 15:48:50

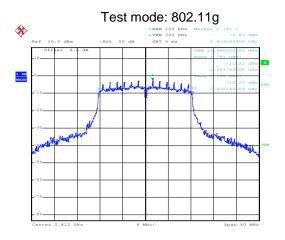
# Middle channel



Date: 15.JUN.2017 15:49:05

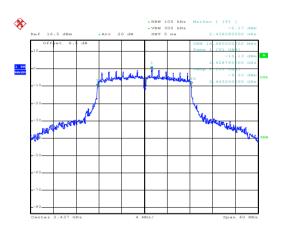
Highest channel





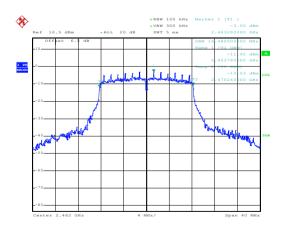
Date: 15.JUN.2017 15:49:33

# Lowest channel



Date: 15.JUN.2017 15:49:48

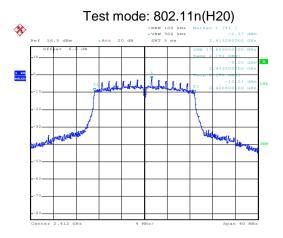
# Middle channel



Date: 15.JUN.2017 15:50:04

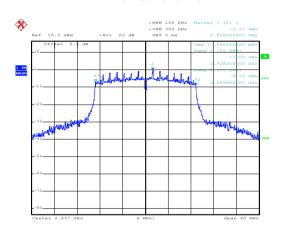
Highest channel





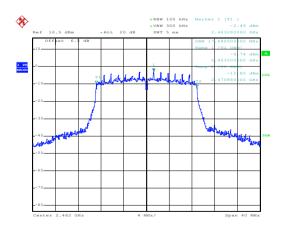
Date: 15.JUN.2017 15:50:37

# Lowest channel



Date: 15.JUN.2017 15:50:54

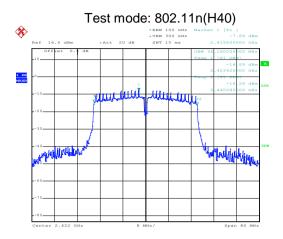
### Middle channel



Date: 15.JUN.2017 15:51:12

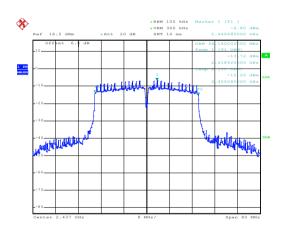
Highest channel





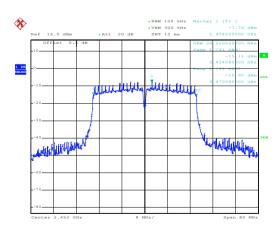
Date: 15.JUN.2017 15:53:28

# Lowest channel



Date: 15.JUN.2017 15:53:57

### Middle channel



Date: 15.JUN.2017 15:54:18

Highest channel



# 6.5 Power Spectral Density

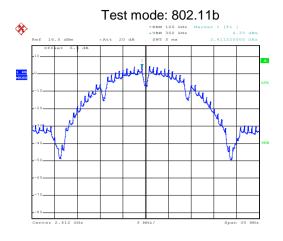
Test Requirement:	FCC Part 15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 10.2		
Limit:	8dBm		
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

#### **Measurement Data:**

Test CH		Power Spec	ctral Density (dBm	)	Limit(dBm)	Result	
	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(dBin)	Nesuit	
Lowest	4.33	-2.38	-2.71	-7.65			
Middle	4.57	-1.10	-1.99	-6.72	8.00	Pass	
Highest	4.64	-2.71	-2.40	-7.64			

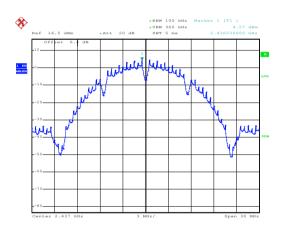


# Test plot as follows:



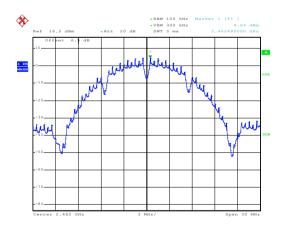
Date: 15.JUN.2017 15:55:51

# Lowest channel



Date: 15.JUN.2017 16:01:00

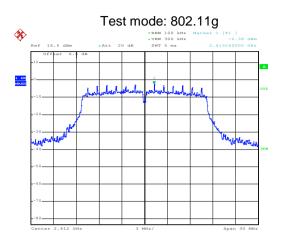
### Middle channel



Date: 15.JUN.2017 16:01:23

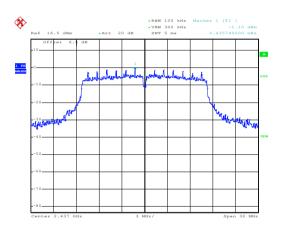
Highest channel





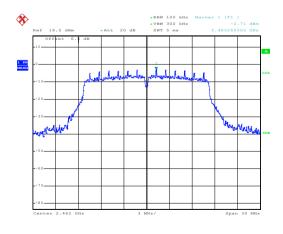
Date: 15.JUN.2017 16:01:57

### Lowest channel



Date: 15.JUN.2017 16:02:36

#### Middle channel

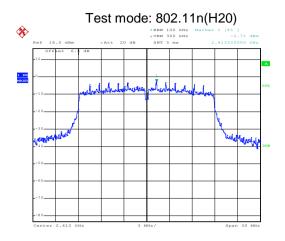


Date: 15.JUN.2017 16:03:41

Highest channel

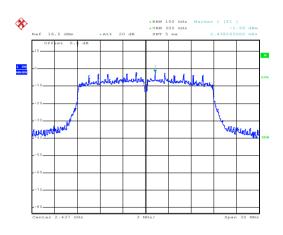
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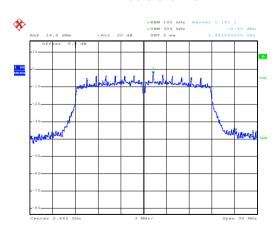
Date: 15.JUN.2017 16:04:22

### Lowest channel



Date: 15.JUN.2017 16:04:54

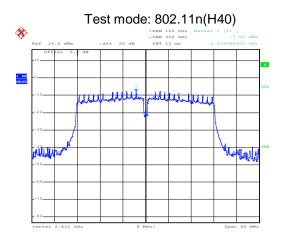
#### Middle channel



Date: 15.JUN.2017 16:05:42

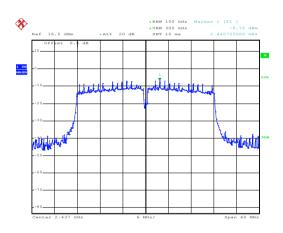
Highest channel





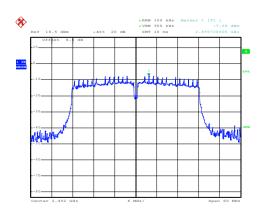
Date: 15.JUN.2017 16:07:35

# Lowest channel



Date: 15.JUN.2017 16:08:07

### Middle channel



Date: 15.JUN.2017 16:08:38

Highest channel





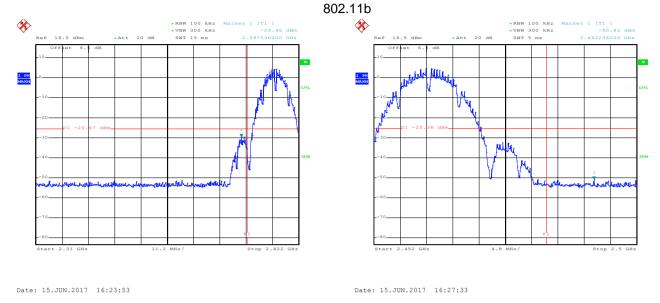
# 6.6 Band Edge

# 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 13				
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 30 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.				
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table				
	Ground Reference Plane				
Test Instruments:	Refer to section 5.6 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

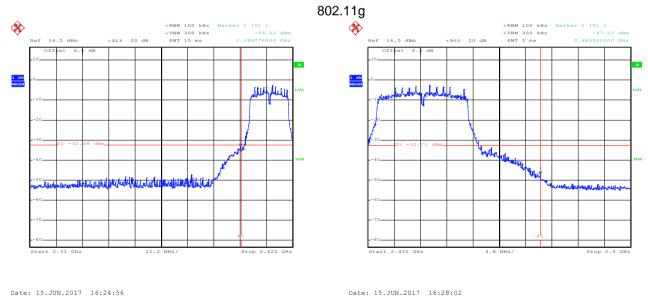


# Test plot as follows:



Lowest channel

Highest channel

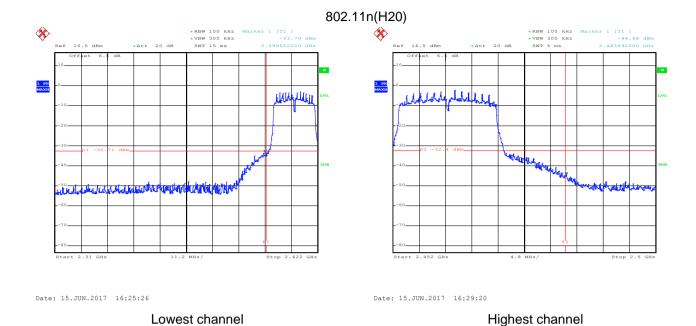


Lowest channel

Highest channel







#REW 100 MIZ MSZ 1(T1) + VEW 300 MIZ 1 + VEW 3



# 6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013 and KDB 558074v03r05 section 12.1							
Test Frequency Range:	2.3GHz to 2.5GHz							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency Detector RBW VBW Remark							
receiver detap.	Above 1GHz	Peak	1MHz	3MHz		Peak Value		
		RMS	1MHz		ЛHz	Average Value		
Limit:	Frequency		Limit (dBuV/m @3m)			Remark		
	Above 1GH	-lz	54.00 74.00	Average Value Peak Value		•		
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.</li> </ol>							
Test setup:	- 150cm	AE EUT (Tumtable)	Ground Reference Plane	rn Antenna	Antenna Tov	wer		
Test Instruments:	Refer to section 5.6 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							
	-							

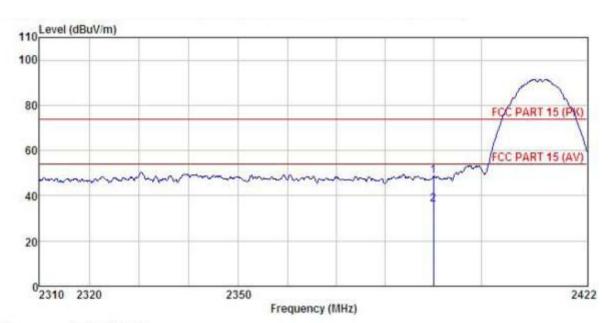




## 802.11b

**Test channel: Lowest** 

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition EUT

: Tablet PC Model : Aprix Tab64C Test mode : 802.11b-L Mode Power Rating : AC120V/60Hz

Environment : Temp:25.5°C Huni:55% 101KPa Test Engineer: YT REMARK :

^	ıvı :	Read	Antenna	Cable	Preamn		Limit	Over	
	Freq		Factor						
	MHz	dBuV	—dB/m	₫B	dB	dBuV/m	dBuV/m	<u>dB</u>	
	2390.000 2390.000							-25.29 -17.95	

## Remark:

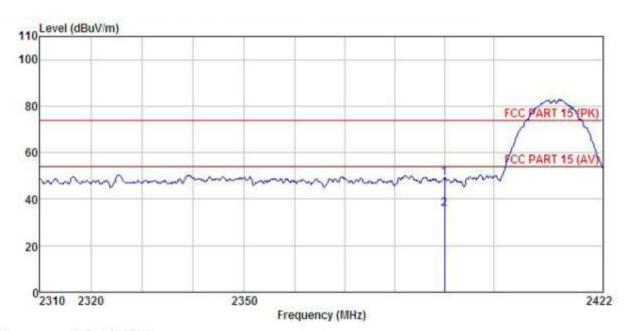
2

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : Tablet\_PC Condition

EUT : Aprix Tab64C : 802.11b-L Mode Model Test mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55% 101KPa

Test Engineer: YT

REMARK

Fi	req					Level		Over Limit	
1	Ήz	dBu∛	dB/m	₫B	−−−dB	dBuV/m	dBuV/m	d₿	
			23.68 23.68						Peak Average

#### Remark:

1 2

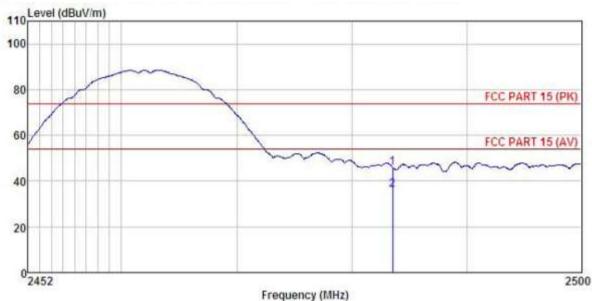
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





## Test channel: Highest

#### Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: Tablet PC : Aprix Tab64C : 802.11b-H Mode EUT Model Test mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55% 101KPa

Test Engineer: YT

REMARK

NA.	350	Read	Ant enna	Cable	Preamp		Limit	Over		
Fr	eq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
M	Hz	dBu∀	dB/m	₫B	−−−dB	dBuV/m	dBuV/m	dB		-
			23.70 23.70						Peak Average	

### Remark:

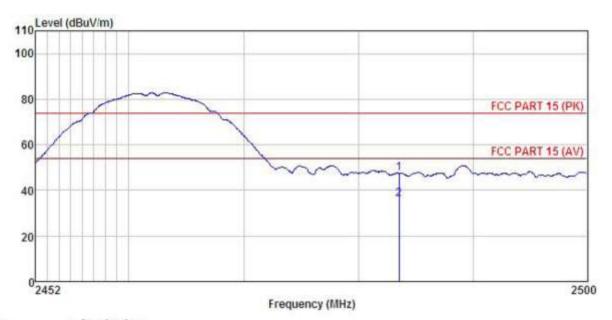
1 2

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

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Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Tablet PC
Model : Aprix Tab64C
Test mode : 802.11b-H Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa

Test Engineer: YT REMARK :

M	· ·	Read	Antenna	Cable	Preamp		Limit	Over		
	Freq		Factor						Remark	
	MHz	dBu∀	dB/m	₫B	<u>dB</u>	dBuV/m	dBuV/m	dB		
	2483,500 2483,500			4.81				-26.41 -18.03	Peak Average	

#### Remark:

1 2

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.

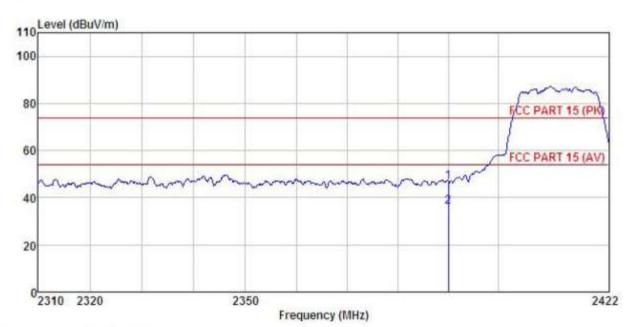




## 802.11g

**Test channel: Lowest** 

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet PC Condition

EUT : Aprix Tab64C Model Test mode : 802.11g-L Mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55% 101KPa

Test Engineer: YT

REMARK

2000	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit		
	MHz	dBu∀	dB/m	₫B	₫₿	dBuV/m	dBuV/m	dB		
	2390.000 2390.000	The STORT CONTROL OF THE	23.68 23.68		0.00 0.00				Peak Average	

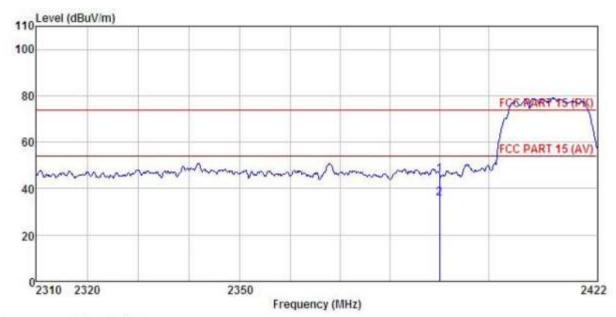
#### Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.

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Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

EUT : Tablet PC Model : Aprix Tab64C Test mode : 802.11g-L Mode Power Rating : AC120V/60Hz

Huni:55% 101KPa Environment : Temp: 25.5°C

Test Engineer: YT

REMARK

Freq		Antenna Factor	Cable Loss			Over Limit	
MHz	—dBu∀	<u>dB/m</u>	<u>dB</u>	 dBu∀/m	dBu∀/m	dB	
2390.000 2390.000							

## Remark:

1 2

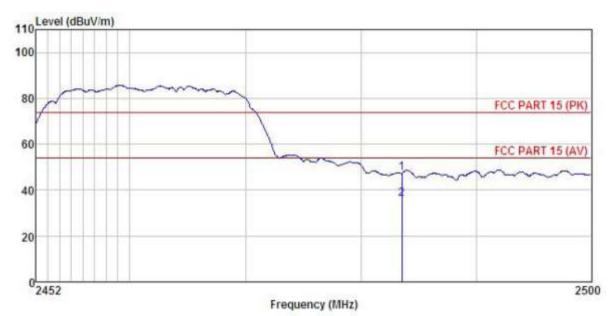
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





## Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet PC Condition

Model : Aprix Tab64C
Test mode : 802.11g-H Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: YT
REMARK

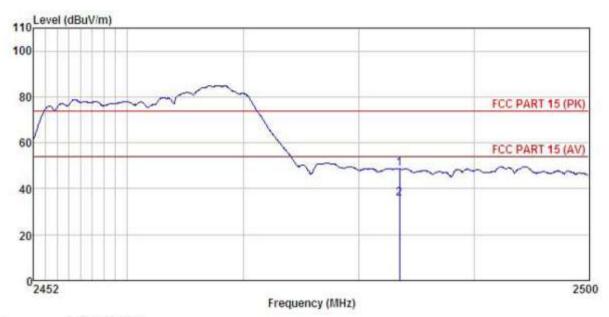
REMARK

	26.	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	₫B	₫₿	dBuV/m	dBuV/m	₫B	
1 2	2483,500 2483,500								

## Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : Tablet PC Condition

EUT

Model : Aprix Tab64C
Test mode : 802.11g-H Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Hu

Humi:55% 101KPa

Test Engineer: YT REMARK :

III AL	n .	Read	Ant enna	Cable	Presmo		Limit	Over	
	Freq		Factor						
3	MHz	dBu∀	dB/m	₫B	dB	dBuV/m	dBuV/m	d₿	
1 2	2483.500 2483.500					48.60 35.88			Peak Average

## Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

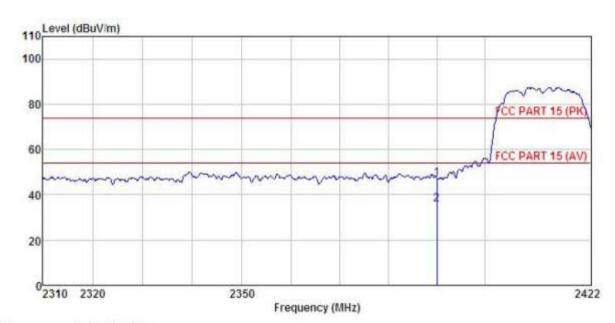




## 802.11n (H20)

**Test channel: Lowest** 

Horizontal:



: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet PC Condition

EUT : Aprix Tab64C : 802.11n20-L Mode Model Test mode Power Rating : AC120V/60Hz

Environment : Temp:25.5°C Test Engineer: YT Huni:55% 101KPa

REMARK

ır	un :	Read	Antenna	Cable	Preamp		Linit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	d₿	
	2390.000 2390.000								

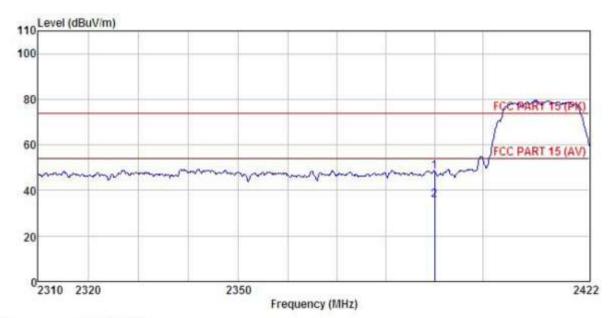
#### Remark:

1 2

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : Tablet PC Condition

EUT : Aprix Tab64C : 802.11n20-L Mode Model Test mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C

Humi:55% 101KPa

Test Engineer: YT REMARK :

EMAR	85		Antenna				Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	₫₿u₹	dB/m	₫₿	<u>db</u>	$\overline{dBuV/n}$	dBuV/m	dB	
1 2	2390.000 2390.000					48.31 35.71			

### Remark:

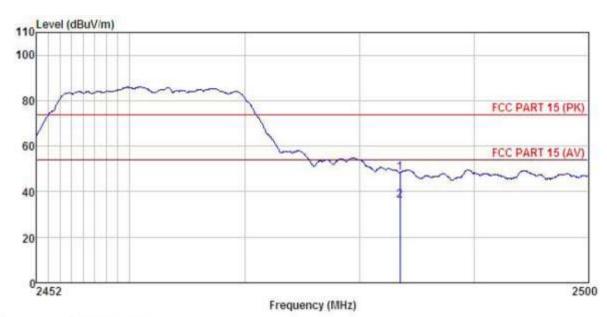
- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





## Test channel: Highest

Horizontal:



: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: Tablet PC : Aprix Tab64C EUT Model : 802.11n20-H Mode Test mode

Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni:55% 101KPa

Test Engineer: YT

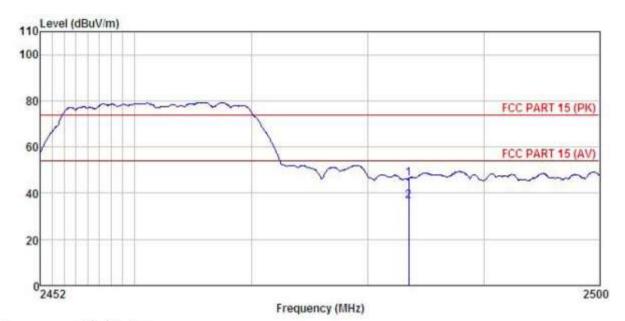
	50	ReadAntenna evel Factor				
-	MHz	dB/n	<u>db</u>	dBuV/m		
	2483,500 2483,500					

### Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.

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Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL

: Tablet PC : Aprix Tab64C EUT Model : 802.11n20-H Mode Test mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55% 101KPa

Test Engineer: YT REMARK :

 25.00	Read		Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	₫B	₫B	dBuV/m	dBuV/m	₫B		
2483.500 2483.500									

#### Remark:

1 2

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

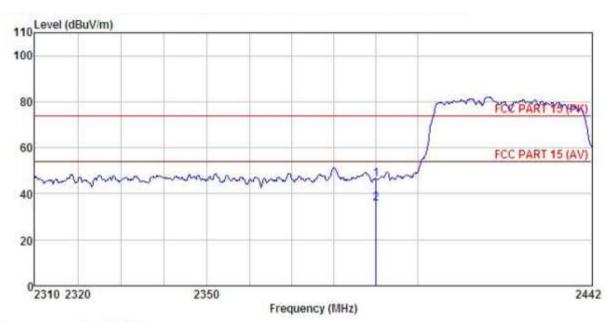




## 802.11n (H40)

**Test channel: Lowest** 

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet PC Condition

EUT : Aprix Tab64C : 802.11n40-L Mode Model Test mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55% 101KPa

Test Engineer: YT

REMARK

			Antenna Factor				Limit Line	7, 7, 7	
	MHz	dBu∀	dB/m	dB	<u>d</u> B	dBuV/m	dBu∀/m	<u>d</u> B	
1 2	2390,000 2390,000					46.39 35.81			

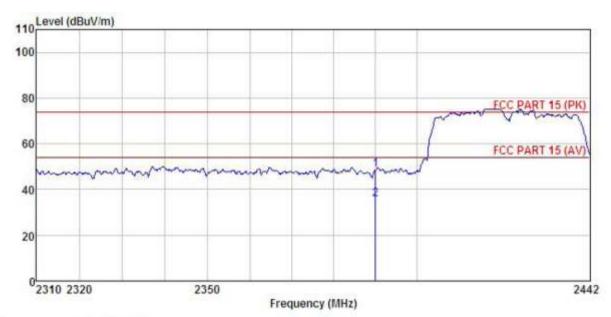
### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366







: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : Tablet PC Condition

EUT : Aprix Tab64C : 802.11n40-L Mode Model Test mode

Power Rating: AC120V/60Hz Environment: Temp:25.5°C Test Engineer: YT REMARK:

Huni:55% 101KPa

IIAIU	•	Read	Antenna	Cable	Preamn		Limit	Over	
	Freq		Factor						
	MHz	dBu∀	dB/m	dB	dB	dBuV/n	dBuV/m	dB	
1	2390.000								Peak

#### Remark:

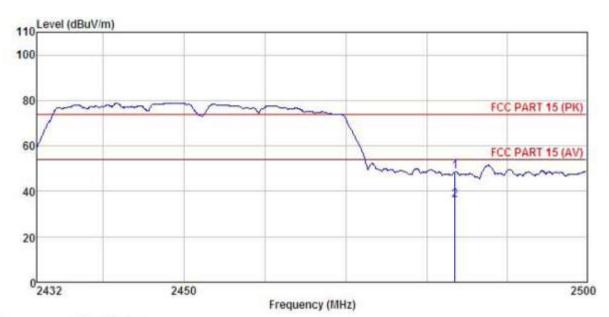
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.





## Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet PC Condition

EUT : Aprix Tab64C Model Test mode : 802.11n40-H Mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55% 101KPa Test Engineer: YT REMARK :

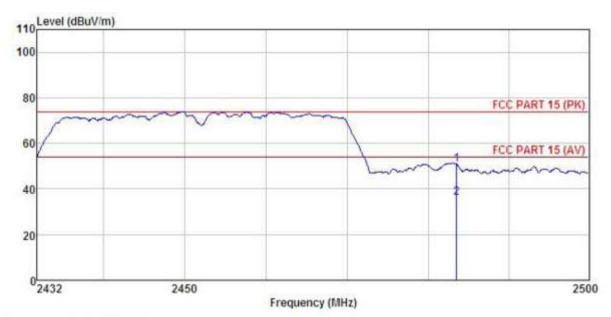
men.		Read	Antenna	Cable	Preamn		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	dB/m	₫B	dB	dBuV/m	dBuV/m	₫₿	
1 2	2483.500 2483.500		23.70 23.70						Peak Average

#### Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : Tablet PC Condition

: Aprix Tab64C : 802.11n40-H Mode Model Test mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55% 101KPa

Test Engineer: YT

MAR	. 4								
	Freq		Antenna Factor				Limit Line		
	MHz	dBu∀	dB/n	dB	dB	dBuV/m	dBuV/m	dB	
1 2	2483, 500 2483, 500				0.00				

## Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.



# 6.7 Spurious Emission

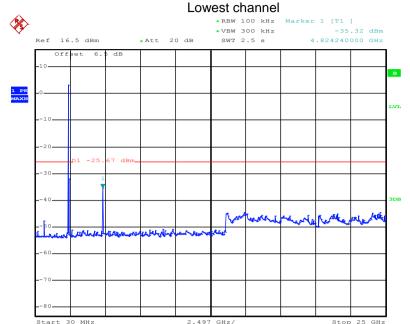
## 6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 11
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:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



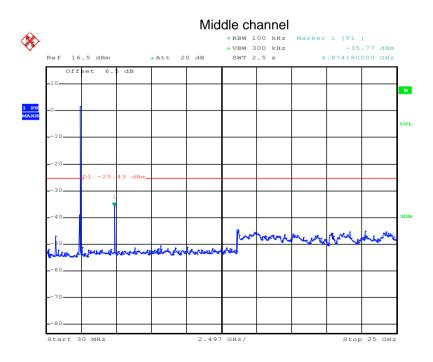
## Test plot as follows:

## Test mode: 802.11b



Date: 15.JUN.2017 16:11:55

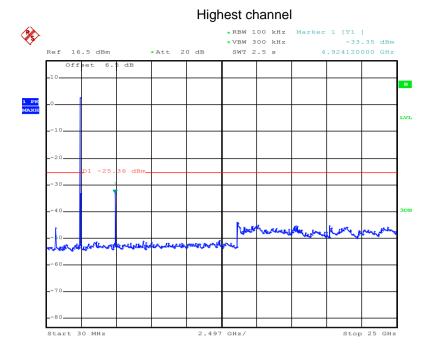
#### 30MHz~25GHz



Date: 15.JUN.2017 16:12:17

30MHz~25GHz





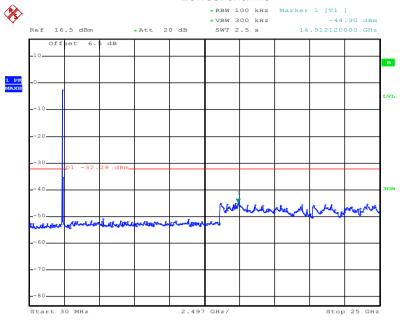
Date: 15.JUN.2017 16:12:45

30MHz~25GHz



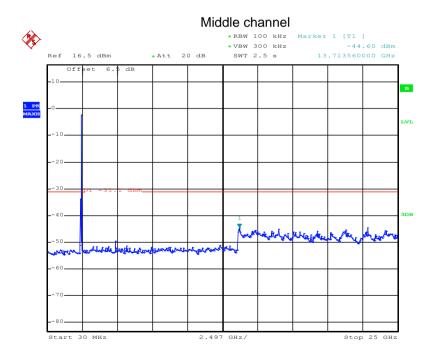
## Test mode: 802.11g

#### Lowest channel



Date: 15.JUN.2017 16:13:17

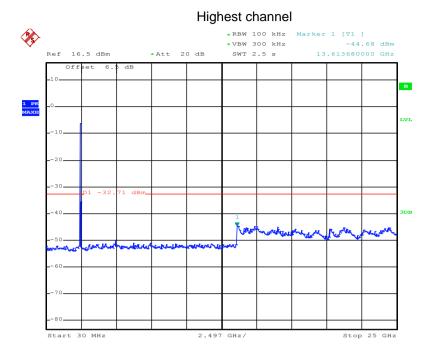
## 30MHz~25GHz



Date: 15.JUN.2017 16:17:02

30MHz~25GHz





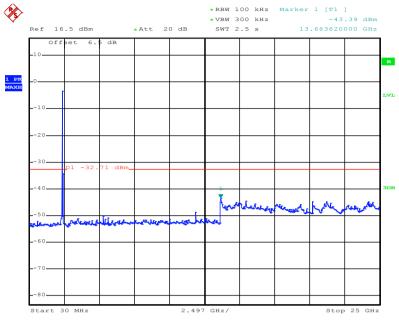
Date: 15.JUN.2017 16:16:33

30MHz~25GHz



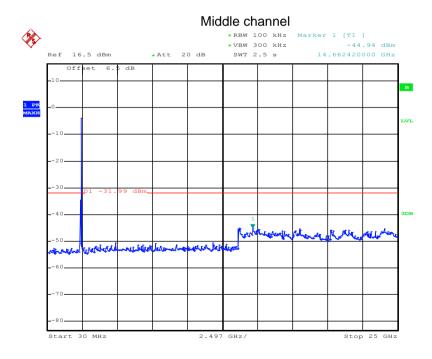
## Test mode: 802.11n(H20)

## Lowest channel



Date: 15.JUN.2017 16:17:57

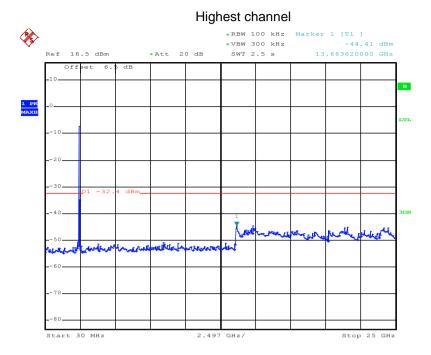
## 30MHz~25GHz



Date: 15.JUN.2017 16:18:21

30MHz~25GHz





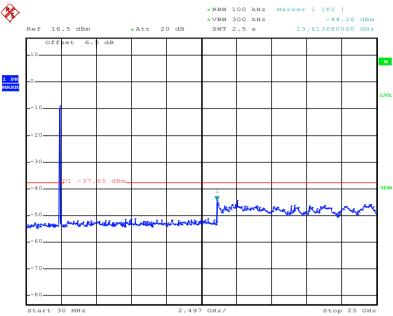
Date: 15.JUN.2017 16:18:40

30MHz~25GHz



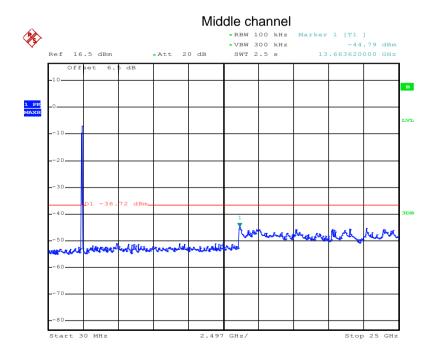
## Test mode: 802.11n(H40)

## Lowest channel



Date: 15.JUN.2017 16:19:05

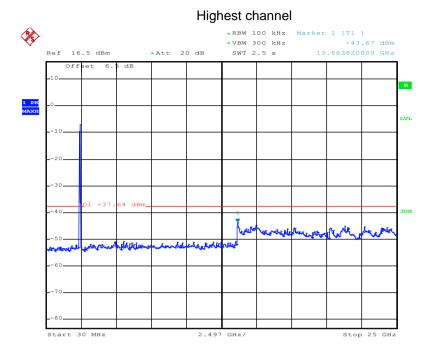
## 30MHz~25GHz



Date: 15.JUN.2017 16:20:32

30MHz~25GHz





Date: 15.JUN.2017 16:20:49

30MHz~25GHz



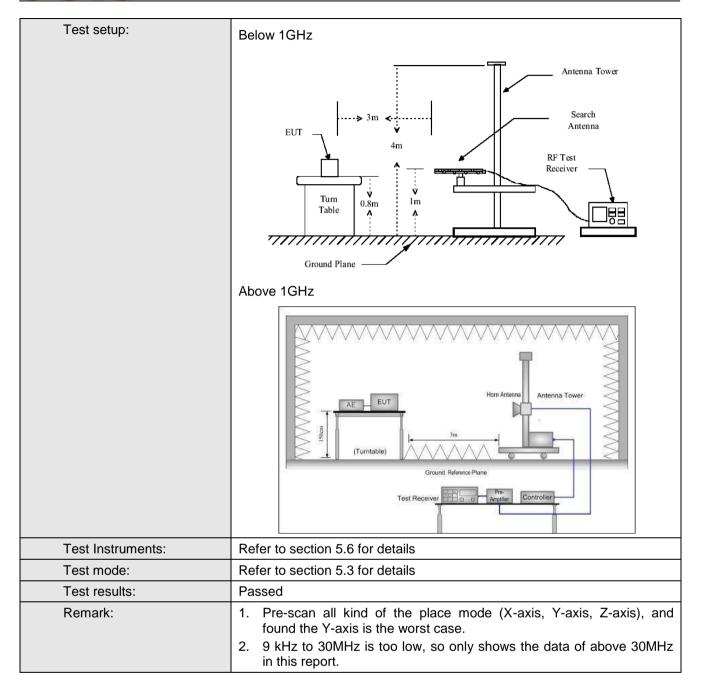


## 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C S	ection 15.2	209 and 15.205							
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	9kHz to 25GHz									
Test site:	Measurement Dis	stance: 3m								
Receiver setup:	Frequency	Detector	r RBW	V	BW	Remark				
·	30MHz-1GHz	Quasi-pea	ak 120KHz	300	)KHz	Quasi-peak Value				
	Above 1GHz	Peak RMS			<u>ИНz</u> ИНz	Peak Value				
		Average Value								
Limit:	Frequency Limit (dBuV/m @3m) Remark									
	30MHz-88MHz 40.0 Quasi-peak Valu									
	88MHz-216MH		43.5			uasi-peak Value				
	216MHz-960M		46.0			uasi-peak Value				
	960MHz-1GH	Z	54.0			uasi-peak Value				
	Above 1GHz	: -			,	•				
Test Procedure:	1 The EUT we	o placed o		otina	table 0					
	Above 1GHz  The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.  The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.  The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.  For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.  The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-									





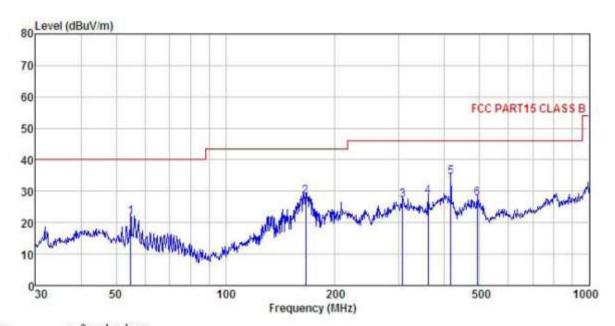






## **Below 1GHz**

Horizontal:



: 3m chamber : FCC PARTI5 CLASS B 3m VULB9163(30M3G) HORIZONTAL : Tablet PC : Aprix Tab64C : 2.4GWIIF Mode Site Condition

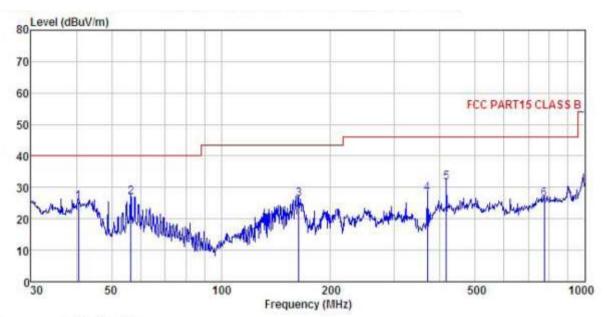
EUT Model Test mode

Power Rating: AC120V/60Hz
Environment: Temp:25.5°C Huni:55% 101KPa
Test Engineer: YT
REMARK:

CMARK									
	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu∀	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	54.835	37.57	12.79	1.36	29.80	21.92	40.00	-18.08	QP
2	166.068	45.06	9.84	2.63	29.08	28.45	43.50	-15.05	QP
3	306.754	39.67	12.91	2.96	28.47	27.07	46.00	-18.93	QP
1 2 3 4	360.448	39.24	14.53	3.10	28.61	28.26	46.00	-17.74	QP
5	416.179	44.22	16.00	3.12	28.81	34.53	46.00	-11.47	QP
6	492.469	36, 42	16.72	3, 55	28 94	27.75	46,00	-18.25	OP







Site : 3m chamber

: FCC PART15 CLASS B 3m VULB9163(30M3G) VERTICAL Condition

EUI : Tablet PC
Model : Aprix Tab64C
Test mode : 2.4GWIIF Mode
Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni:55% 101KPa

Test Engineer: YI REMARK

munna									
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq		Factor				Line	Limit	Remark
	MHz	dBu∀	dB/m	d₿	dB	dBuV/m	dBuV/m	dB	
1	40.559	37.14	16.98	1.22	29.90	25.44	40.00	-14.56	QP
2	56.395	43.19	11.97	1.36	29.79	26.73	40.00	-13.27	QP
2 3	163.755	42.79	9.86	2.62	29.10	26.17	43.50	-17.33	QP
4	369.405	38.65	14.84	3.09	28.65	27.93	46.00	-18.07	QP
4 5 6	416.179	41.39	16.00	3.12	28.81	31.70	46.00	-14.30	QP
6	774.158	29.66	20.50	4.36	28.34	26.18	46.00	-19.82	QP





## **Above 1GHz**

Test mode: 80	02.11b		Test char	nnel: Lowest		Remark: Peak		
Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polar.
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Fulai.
4824.00	51.28	36.06	6.81	41.82	52.33	74.00	-21.67	Vertical
4824.00	48.38	36.06	6.81	41.82	49.43	74.00	-24.57	Horizontal
Test	mode: 802.	11b	Test channel: Lowest			Rem	ark: Aver	age
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4824.00	41.27	36.06	6.81	41.82	42.32	54.00	-11.68	Vertical
4824.00	38.26	36.06	6.81	41.82	39.31	54.00	-14.69	Horizontal

Test mode: 80	02.11b		Test char	nnel: Middle		Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	52.49	36.32	6.85	41.84	53.82	74.00	-20.18	Vertical
4874.00	50.27	36.32	6.85	41.84	51.60	74.00	-22.40	Horizontal
Test	mode: 802.	11b	Test channel: Middle			Rem	ark: Avera	age
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	42.28	36.32	6.85	41.84	43.61	54.00	-10.39	Vertical
4874.00	41.52	36.32	6.85	41.84	42.85	54.00	-11.15	Horizontal

Test mode: 80	02.11b		Test char	nnel: Highest		Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4924.00	55.69	36.58	6.89	41.86	57.30	74.00	-16.70	Vertical
4924.00	51.88	36.58	6.89	41.86	53.49	74.00	-20.51	Horizontal
Test	mode: 802.	11b	Test channel: Highest			Rem	nark: Avera	age
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4924.00	47.29	36.58	6.89	41.86	48.90	54.00	-5.10	Vertical
4924.00	47.28	36.58	6.89	41.86	48.89	54.00	-5.11	Horizontal

## Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test mode: 80	02.11g		Test char	nel: Lowest		Remark: Peak			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4824.00	51.36	36.06	6.81	41.82	52.41	74.00	-21.59	Vertical	
4824.00	48.96	36.06	6.81	41.82	50.01	74.00	-23.99	Horizontal	
Tes	t mode: 802.	.11g	Test channel: Lowest			Rem	ark: Avera	ige	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4824.00	41.77	36.06	6.81	41.82	42.82	54.00	-11.18	Vertical	
4824.00	36.26	36.06	6.81	41.82	37.31	54.00	-16.69	Horizontal	

Test mode: 802.11g			Test char	Test channel: Middle			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4874.00	51.48	36.32	6.85	41.84	52.81	74.00	-21.19	Vertical	
4874.00	50.26	36.32	6.85	41.84	51.59	74.00	-22.41	Horizontal	
Tes	t mode: 802.	11g	Test channel: Middle			Rem	ark: Avera	ige	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4874.00	42.26	36.32	6.85	41.84	43.59	54.00	-10.41	Vertical	
4874.00	41.78	36.32	6.85	41.84	43.11	54.00	-10.89	Horizontal	

Test mode: 802.11g			Test channel: Highest			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m )	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4924.00	54.85	36.58	6.89	41.86	56.46	74.00	-17.54	Vertical
4924.00	50.26	36.58	6.89	41.86	51.87	74.00	-22.13	Horizontal
Tes	t mode: 802.	11g	Test channel: Highest			Remark: Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m )	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4924.00	46.59	36.58	6.89	41.86	48.20	54.00	-5.80	Vertical
4924.00	45.27	36.58	6.89	41.86	46.88	54.00	-7.12	Horizontal

## Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test mode: 802.11n(H20)			Test channel: Lowest			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4824.00	51.24	36.06	6.81	41.82	52.29	74.00	-21.71	Vertical
4824.00	46.30	36.06	6.81	41.82	47.35	74.00	-26.65	Horizontal
Test m	ode: 802.11	n(H20)	Test channel: Lowest		owest	Rem	ark: Avera	age
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4824.00	41.26	36.06	6.81	41.82	42.31	54.00	-11.69	Vertical
4824.00	35.59	36.06	6.81	41.82	36.64	54.00	-17.36	Horizontal

Test mode: 802.11n(H20)			Test channel: Middle			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	50.23	36.32	6.85	41.84	51.56	74.00	-22.44	Vertical
4874.00	49.62	36.32	6.85	41.84	50.95	74.00	-23.05	Horizontal
Test m	ode: 802.11	n(H20)	Test channel: Middle			Rem	ark: Avera	age
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	41.27	36.32	6.85	41.84	42.60	54.00	-11.40	Vertical
4874.00	42.26	36.32	6.85	41.84	43.59	54.00	-10.41	Horizontal

Test mode: 802.11n(H20)			Test channel: Highest			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4924.00	53.69	36.58	6.89	41.86	55.30	74.00	-18.70	Vertical
4924.00	51.24	36.58	6.89	41.86	52.85	74.00	-21.15	Horizontal
Test m	ode: 802.11	n(H20)	Test channel: Highest			Rem	ark: Avera	age
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4924.00	45.21	36.58	6.89	41.86	46.82	54.00	-7.18	Vertical
4924.00	45.69	36.58	6.89	41.86	47.30	54.00	-6.70	Horizontal

## Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test mode: 802.11n(H40)			Test channel: Lowest			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4844.00	52.24	36.06	6.81	41.82	53.29	74.00	-20.71	Vertical
4844.00	47.86	36.06	6.81	41.82	48.91	74.00	-25.09	Horizontal
Test m	ode: 802.11	n(H40)	Test channel: Lowest		owest	Rem	ark: Avera	age
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4844.00	40.72	36.06	6.81	41.82	41.77	54.00	-12.23	Vertical
4844.00	36.56	36.06	6.81	41.82	37.61	54.00	-16.39	Horizontal

Test mode: 802.11n(H40)			Test channel: Middle			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	50.28	36.32	6.85	41.84	51.61	74.00	-22.39	Vertical
4874.00	50.44	36.32	6.85	41.84	51.77	74.00	-22.23	Horizontal
Test m	ode: 802.11	n(H40)	Test channel: Middle		1iddle	Rem	ark: Avera	age
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	42.72	36.32	6.85	41.84	44.05	54.00	-9.95	Vertical
4874.00	41.36	36.32	6.85	41.84	42.69	54.00	-11.31	Horizontal

Test mode: 802.11n(H40)			Test channel: Highest			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4904.00	52.24	36.45	6.87	41.85	53.71	74.00	-20.29	Vertical
4904.00	50.13	36.45	6.87	41.85	51.60	74.00	-22.40	Horizontal
Test m	ode: 802.11	n(H40)	Test channel: Highest			Rem	ark: Avera	age
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4904.00	46.21	36.45	6.87	41.85	47.68	54.00	-6.32	Vertical
4904.00	45.72	36.45	6.87	41.85	47.19	54.00	-6.81	Horizontal

## Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.