

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS15070058003

FCC REPORT (WIFI)

Applicant: HUNG WAI PRODUCTS LIMITED

Address of Applicant: Unit 11, 12/F., New Commerce Centre, 19 On Sum Street,

Shatin, Hong Kong

Equipment Under Test (EUT)

Product Name: 15.6" Android touch LCD Media Player

Model No.: DT156-AC4-720, 502-1569ATATM

FCC ID: 2AB6Z-DT156-AC4

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

Date of sample receipt: 22 Jul., 2015

Date of Test: 23 Jul., to 26 Aug., 2015

Date of report issued: 26 Aug., 2015

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 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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2 Version

Version No.	Date	Description			
00	26 Aug., 2015	Android player Main board with wireless module (FCC ID: 2AB6Z-1859ATMB) and same antenna were used by the device, only conducted emission and Radiated emission were re-tested.			

Prepared by: Date: 26 Aug., 2015

Report Clerk

Reviewed by: 26 Aug., 2015

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.

Pass*: The test data refer to FCC ID: 2AB6Z-1859ATMB.





5 General Information

5.1 Client Information

Applicant:	HUNG WAI PRODUCTS LIMITED
Address of Applicant:	Unit 11, 12/F., New Commerce Centre, 19 On Sum Street, Shatin, Hong Kong
Manufacturer:	HUNG WAI ELECTRONICS (HUIZHOU) LTD.
Address of Manufacturer:	3 rd floor, NO. 3, Minfeng Road, Huinan High and New Technology Industry Park, Huiao Avenue, Huizhou City, Guangdong, China

5.2 General Description of E.U.T.

	·
Product Name:	15.6" Android touch LCD Media Player
Model No.:	DT156-AC4-720, 502-1569ATATM
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:	Omni-directional
Antenna gain:	2.5 dBi
AC Adapter:	MODEL: PS24A120K2000UD Input: AC 100-240V 50/60Hz 1.0A Output: DC 12V, 2000mA





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 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		



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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 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 802.11p, 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.



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5.4 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 testing. The Registration No. is CNAS L6048.

5.5 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

Tel: +86-755-23118282 Fax: +86-755-23116366





5.6 Test Instruments list

Radia	ated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	03-28-2015	03-28-2016
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016
6	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016
7	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	03-28-2015	03-28-2016
12	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	03-28-2015	03-28-2016
13	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016
14	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	03-28-2015	03-28-2016
15	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-08-2015	04-08-2016

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	11-10-2012	11-09-2015						
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016						
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016						
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016						
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 antenna of EUT is a reverse-SMA connector, which cannot be replaced by end-user. And the antenna gain is 2.5 dBi.







6.2 Conducted Emission

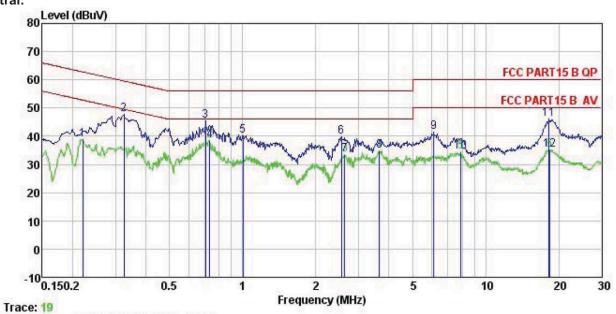
Test Requirement:	FCC Part 15 C Section 15.207	7							
Test Method:	ANSI C63.4: 2009								
Test Frequency Range:	150 kHz to 30 MHz								
Class / Severity:	Class B								
Receiver setup:	RBW=9 kHz, VBW=30 kHz								
Limit:	Limit (dBuV)								
	Frequency range (MHz)	Quasi-peak	Average						
	0.15-0.5	66 to 56*	56 to 46*						
	0.5-5	56	46						
	* Decreases with the logarithm	60	50						
Test procedure	 The E.U.T and simulators a line impedance stabilized 500hm/50uH coupling implements. The peripheral devices and through a LISN that provious with 500hm termination. (test setup and photograph and photograph setup and photograph setup and photograph are interference. In order to find positions of equipment are changed according to AN measurement. 	ation network (L.I.S.N.) pedance for the measure also connected to the des a 500hm/50uH conference refer to the blocks). The checked for maximum at the maximum emisted all of the interface care	y, which provides a uring equipment. e main power upling impedance ck diagram of the m conducted sion, the relative ables must be						
Test setup:	LISN 40cm		er — AC power						
Test Instruments:	Refer to section 5.6 for details								
Test mode:	Refer to section 5.3 for details								

Measurement Data





Neutral:



Site

Condition

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : 15.6" Android touch LCD Media Player : DT15-A-1 EUT

Model Test Mode : WIFI mode

Power Rating : AC 120V/60Hz Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Viki

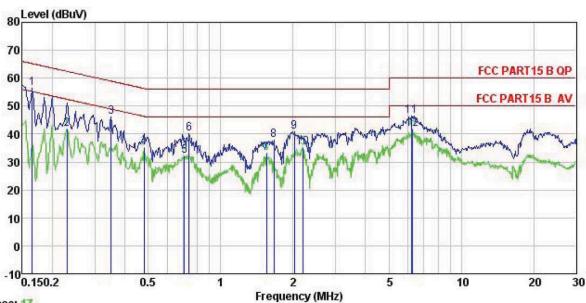
R

Remark								
		Read	LISN	Cable		Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∜	<u>dB</u>	dB	dBu₹	dBu∇	<u>dB</u>	
1	0.220	27.95	0.25	10.76	38.96	52.83	-13.87	Average
2	0.325	36.85	0.26	10.73	47.84	59.57	-11.73	QP
3	0.705	34.62	0.18	10.77	45.57	56.00	-10.43	QP
4	0.731	27.62	0.18	10.78	38.58	46.00	-7.42	Average
5	1.005	29.22	0.22	10.87	40.31	56.00	-15.69	QP
6	2.554	28.71	0.29	10.94	39.94	56.00	-16.06	QP
1 2 3 4 5 6 7 8 9	2.636	22.30	0.29	10.93	33.52	46.00	-12.48	Average
8	3.661	23.81	0.29	10.90	35.00	46.00	-11.00	Average
9	6.121	30.23	0.27	10.82	41.32	60.00	-18.68	QP
10	7.893	23.34	0.26	10.84	34.44	50.00	-15.56	Average
11	18.232	34.97	0.26	10.91	46.14	60.00	-13.86	QP
12	18.328	24.16	0.26	10.91	35.33	50.00	-14.67	Average









Trace: 17

Site : CCIS Shielding Room Condition

: FCC PART15 B QP LISN LINE : 15.6" Android touch LCD Media Player EUT

: DT156-AC4-720 Model Test Mode : WIFI mode Power Rating : AC 120V/60Hz

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

Remark

ional i	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	₫B	dBu₹	dBu√	<u>dB</u>	
1	0.165	45.31	0.27	10.77	56.35	65.21	-8.86	QP
2	0.230	30.76	0.27	10.75	41.78	52.44	-10.66	Average
3	0.350	35.06	0.27	10.73	46.06	58.96	-12.90	QP
1 2 3 4 5 6 7 8 9	0.481	24.08	0.29	10.75	35.12	46.32	-11.20	Average
5	0.708	21.27	0.22	10.77	32.26	46.00	-13.74	Average
6	0.739	29.22	0.22	10.79	40.23	56.00	-15.77	QP
7	1.552	21.83	0.26	10.93	33.02	46.00	-12.98	Average
8	1.662	26.60	0.26	10.94	37.80	56.00	-18.20	QP
9	2.023	29.61	0.26	10.96	40.83	56.00	-15.17	QP
10	2.201	24.00	0.26	10.95	35.21	46.00	-10.79	Average
11	6.186	35.25	0.31	10.82	46.38	60.00	-13.62	QP
12	6.285	30.63	0.31	10.81	41.75	50.00	-8.25	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 C63.4: 2009
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:	Refer to FCC ID: 2AB6Z-1859ATMB
Remark:	Test method refer to KDB558074 (DTS Measure Guidance) section 8.2, option 1.



6.4 Occupy Bandwidth

Toot Poquiroment	ECC Part 15 C Section 15 247 (a)(2)
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4: 2009
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:	Refer to FCC ID: 2AB6Z-1859ATMB



6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)
•	` '
Test Method:	ANSI C63.4: 2009
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:	Refer to FCC ID: 2AB6Z-1859ATMB





6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Test Method:	ANSI C63.4: 2009					
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					
	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:	Refer to FCC ID: 2AB6Z-1859ATMB					





6.6.2 Radiated Emission Method

Test	Requirement:	FCC Part 15 C	Section 15 209	and 15 205					
	·	ANSI C63.4: 2009							
	Frequency Range:	2.3GHz to 2.5G							
Test		Measurement Distance: 3m							
		Measurement distance. Sin							
Rece	eiver setup:	Frequency Above 1GHz	Detector Peak RMS	RBW 1MHz 1MHz	VBW 3MHz 3MHz	Remark Peak Value Average Value			
Limit			Average value						
Liiiii		Freque	ency	Limit (dBuV/	m @3m)	Remark			
		Above 1	•	54.0		Average Value			
				74.0		Peak Value			
1651	Procedure:	the ground to determin to determin to determin and the second antenna, we tower. 3. The antenre the ground Both horizon make the notes and the meters and to find the notes are specified E. 5. The test-re specified E. 6. If the emission the limit specified EUT have 10dB	at a 3 meter cane the position of as set 3 meter which was mour that he ight is varied to determine the ontal and vertice neasurement. If the rota table maximum read ceiver system of andwidth with sion level of the would be reportal to the position of the would be reportal and maximum that the rota table maximum read ceiver system of andwidth with sion level of the would be reportant as the position of the would be reportant as the position of the position o	amber. The of the highest saway from the on the to saway from the to the field from one maximum all polarizations to the sawas turned from the sawas turned from the sawas set to Polarizations. Was set to Polarizations was set to Polarizations was set to Polarizations turned from the sawas set to Polarizations was set to Polarizations to the sawas set to Polarizations to the saw	table was rest radiation. the interfer op of a variation meter to for a value of the arrow of the arrow 0 degree ak Detect old Mode. It was a value of the cold Mode was to be stopped a value one by one	e1.5 meters above otated 360 degrees rence-receiving able-height antenna our meters above the field strength. Intenna are set to reged to its worst from 1 meter to 4 rees to 360 degrees. Function and s 10dB lower than and the peak values ssions that did not the using peak, quasi-ported in a data			
Test	setup:	EUT 3m Turn 1.5m Table 1.5m A	4m A I I I M A A A A A A A A A A A A A A A	Antenna Horn Ante Spectrum Analyzer Amplifi	enna				
Test	Instruments:	Refer to section	5.6 for details						
	mode:	Refer to section							
Test	results:	Passed							





Measurement Data:

Test mode: 802.11b			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.	
2390	21.06	27.58	6.63	0	55.27	74	-18.73	Vertical	
2390	20.16	27.58	6.63	0	54.37	74	-19.63	Horizontal	
Test mode: 80	02.11b		Test channel: Lowest			Remark: Ave	erage		
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.	
2390	10.66	27.58	6.63	0	44.87	54	-9.13	Vertical	
2390	10.52	27.58	6.63	0	44.73	54	-9.27	Horizontal	

Test mode: 802.11b			Test chan	nel: 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.
2483.5	22.46	27.52	6.85	0	56.83	74	-17.17	Vertical
2483.5	21.48	27.52	6.85	0	55.85	74	-18.15	Horizontal
Test mode: 802.11b								
Test mode: 80	02.11b		Test chan	nel: Highest		Remark: Ave	erage	
Test mode: 80 Frequency (MHz)	02.11b Read Level (dBuV)	Antenna Factor (dB/m)	Test char Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Remark: Ave Limit Line (dBuV/m)	Over Limit (dB)	Polar.
Frequency	Read Level	Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Polar.

Test mode: 80	02.11g		Test chan	nel: Lowest		Remark: Pea	ık	
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.
2390	29.63	27.58	6.63	0	63.84	74	-10.16	Vertical
2390	23.47	27.58	6.63	0	57.68	74	-16.32	Horizontal
Test mode: 80	02.11g		Test channel: Lowest			Remark: Ave	erage	
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.
2390	12.08	27.58	6.63	0	46.29	54	-7.71	Vertical
2000								

Test mode: 80	02.11g		Test char	nel: Highest		Remark: Pea	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.	
2483.5	20.18	27.52	6.85	0	54.55	74	-19.45	Vertical	
2483.5	21.15	27.52	6.85	0	55.52	74	-18.48	Horizontal	
Test mode: 80	02.11g		Test char	nel: Highest		Remark: Ave	erage		
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.	
2483.5	9.36	27.52	6.85	0	43.73	54	-10.27	Vertical	
2483.5	9.48	27.52	6.85	0	43.85	54	-10.15	Horizontal	

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

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Test mode: 80	02.11n-HT20		Test chan	nel: 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.	
2390	29.87	27.58	6.63	(db)	64.08	74	-9.92	Vertical	
2390	29.08	27.58	6.63	0	63.29	74	-10.71	Horizontal	
Test mode: 80	02.11n-HT20		Test chan	nel: Lowest		Remark: Ave	erage		
Test mode: 80 Frequency (MHz)	02.11n-HT20 Read Level (dBuV)	Antenna Factor (dB/m)	Test char Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Remark: Ave Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Polar.	

Test mode: 80	02.11n-HT20)	Test chan	nel: Highest		Remark: Pea	k	
Frequency	Read	Antenna Factor	Cable	Preamp Factor	Level	Limit Line	Over Limit	Polar.
(MHz)	Level (dBuV)	(dB/m)	Loss (dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Polal.
2483.5	21.06	27.52	6.85	0	55.43	74	-18.57	Vertical
2483.5	20.08	27.52	6.85	0	54.45	74	-19.55	Horizontal
Test mode: 80	02.11n -HT2	0	Test chan	nel: Highest		Remark: Ave	erage	
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)	
(MHz) 2483.5	(dBuV) 11.26	(dB/m) 27.52	(dB) 6.85	(dB) 0	45.63	(uBu v/III) 54	(dB) -8.37	Vertical

Test mode: 80	02.11n -HT4	0	Test chan	nel: 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.	
2390	22.85	27.58	6.63	0	57.06	74	-16.94	Vertical	
2390	22.36	27.58	6.63	0	56.57	74	-17.43	Horizontal	
Test mode: 80	02 11n -HT4	0	Test chan	nel: Lowest		Remark: Ave	erane		
	7 <u>2. 1 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	0	100t onai	IIICI. LOWCOL		Ttomant. 7tv	rage		
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.	
	Read Level	Antenna Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Polar.	

Test mode: 80	02.11n -HT4	0	Test chan	nel: 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.	
2483.5	22.26	27.52	6.85	0	56.63	74	-17.37	Vertical	
2483.5	23.17	27.52	6.85	0	57.54	74	-16.46	Horizontal	
Test mode: 80	02.11n -HT4	0	Test chan	nel: Highest		Remark: Ave	erage		
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit	Polar.	
(1411 12)	(dBuV)	(dB/m)	(dB)	(dB)	,	, ,	(dB)		
2483.5	(dBuV) 10.85	(dB/m) 27.52	6.85	(dB)	45.22	54	-8.78	Vertical	

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^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.4: 2009
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.
Test setup:	
	Spectrum Analyzer
	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:	Refer to FCC ID: 2AB6Z-1859ATMB



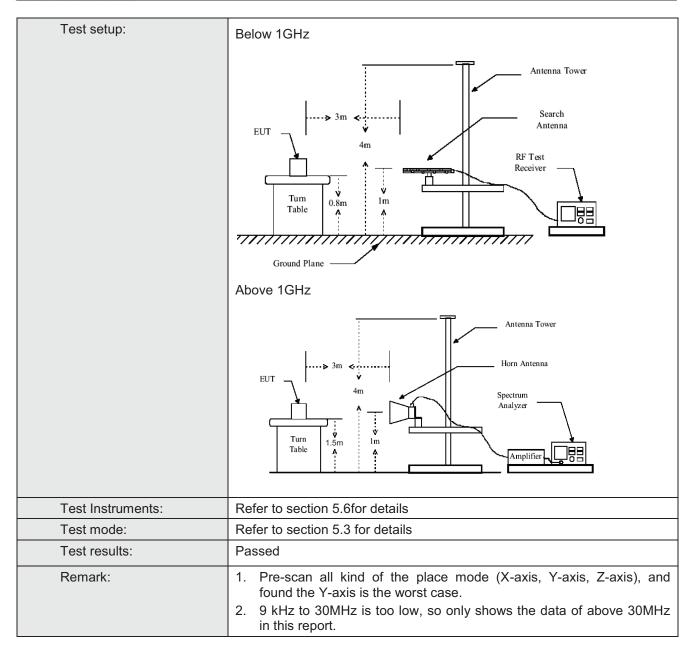


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.209	9 and 15.205			
Test Method:	ANSI C63.4: 200)9				
Test Frequency Range:	9KHz to 25GHz					
Test site:	Measurement D	istance: 3m				
Receiver setup:						
·	Frequency	Detector	RBW	VBW	Remark	
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
	Above 10112	RMS	1MHz	3MHz	Average Value	
Limit:		Г				
	Freque		Limit (dBuV		Remark	
	30MHz-8		40.0		Quasi-peak Value	
	88MHz-21		43.5		Quasi-peak Value	
	216MHz-9		46.0		Quasi-peak Value	
	960MHz-	1GHz	54.0		Quasi-peak Value	
	Above 1	GHz	54.0 74.0		Average Value	
Took Dunned dunner	1. The EUT w	as placed on t			Peak Value e 0.8 meters above	
Test Procedure:	the ground to determin 2. The EUT wantenna, wantenna, wantenna and the ground Both horizon make the numbers and to find the number of the emission of the EUT have 10dB	at a 3 meter of the position was set 3 meter which was mount to determine to the antender and vertical to the antender and the rotal table maximum reactiver system and width with sion level of the would be reported to the position of the would be reported the position of the would be reported to the testing of the would be reported to the testing of the would be reported to the testing of the position of the po	camber. The tage of the highest restaway from the maximum call polarization was turned the EUT in peasesting could be orted. Otherwas the re-tested	able was ro st radiation. the interfer op of a variation are meter to for a value of the are to heights from 0 degreak Detect old Mode. It is mode was the stopped arise the emitone by one	rence-receiving able-height antenna our meters above the field strength. Intenna are set to anged to its worst from 1 meter to 4 ees to 360 degrees	





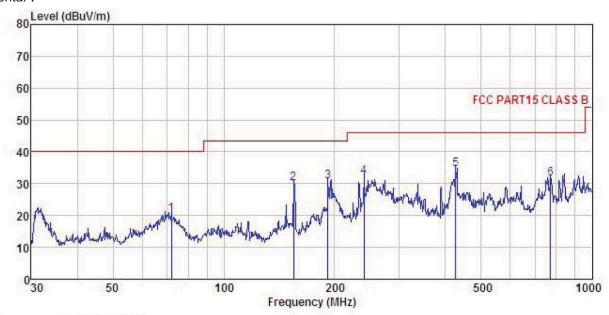






Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL : 15.6" Android touch LCD Media Player Condition

EUT

Model : DT156-AC4-720 Test mode : WIFI mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Humi: 55% 101KPa Test Engineer: Viki

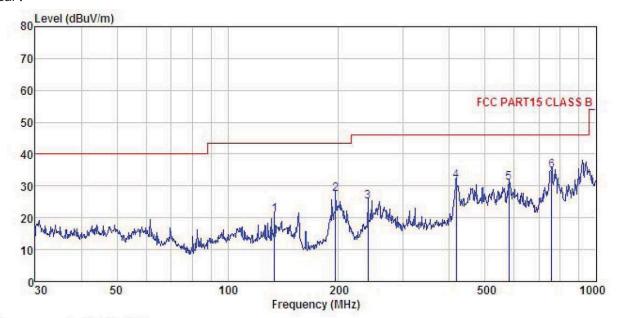
REMARK

	Freq		Antenna Factor					Over Limit	Remark
_	MHz	dBu₹	<u>dB</u> /m	<u>d</u> B	<u>d</u> B	$\overline{dB} \overline{uV}/\overline{m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	72.084	41.03	8.26	0.80	29.70	20.39	40.00	-19.61	QP
2	154.821	49.39	8.45	1.33	29.18	29.99	43.50	-13.51	QP
3	191.745	47.81	10.56	1.37	28.89	30.85	43.50	-12.65	QP
2 3 4	239.987	47.16	12.09	1.58	28.59	32.24	46.00	-13.76	QP
5	426.521	45.70	15.50	2.19	28.83	34.56	46.00	-11.44	QP
6	771.449	37.15	19.72	3.10	28.36	31.61	46.00	-14.39	QP





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL : 15.6" Android touch LCD Media Player : DT156-AC4-720 Condition

EUT

Model Test mode : WIFI mode Power Rating: AC120V/60Hz Environment: Temp:25.5°C Test Engineer: Viki REMARK:

Huni:55% 101KPa

123456

TLV										
			Antenna						100	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
_	MHz	dBu∇			<u>d</u> B	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>		
	134.088	40.33	8.61	1.22	29.31	20.85	43.50	-22.65	QP	
	196.510	44.50	10.57	1.38	28.85	27.60	43.50	-15.90	QP	
	239.987	39.99	12.09	1.58	28.59	25.07	46.00	-20.93	QP	
	417.641	42.78	15.43	2.17	28.81	31.57	46.00	-14.43	QP	
	580.703	39.32	18.14	2.59	29.00	31.05	46.00	-14.95	QP	
	758, 041	40, 81	19.53	3.06	28.43	34 97	46 00	-11 03	OP	





Above 1GHz

Test mode: 80	02.11b		Test char	nnel: 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	45.06	31.54	10.58	40.22	46.96	74.00	-27.04	Vertical	
4824.00	44.26	31.54	10.58	40.22	46.16	74.00	-27.84	Horizontal	
Test mode: 80	02.11b		Test char	nnel: Lowest		Remark: Ave	erage		
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	35.62	31.54	10.58	40.22	37.52	54.00	-16.48	Vertical	

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	46.05	31.57	10.64	40.15	48.11	74.00	-25.89	Vertical	
4874.00	46.12	31.57	10.64	40.15	48.18	74.00	-25.82	Horizontal	
Test mode: 80	02.11b		Test char	nnel: Middle		Remark: Ave	rage		
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	36.15	31.57	10.64	40.15	38.21	54.00	-15.79	Vertical	
4874.00	37.02	31.57	10.64	40.15	39.08	54.00	-14.92	Horizontal	

Test mode: 8	02.11b		Test char	nnel: Highest		Remark: Peak			
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit	Polar.	
` ′	(dBuV)	(dB/m)	(dB)	(dB)	,	, ,	(dB)		
4924.00	43.15	31.61	10.70	40.08	45.38	74.00	-28.62	Vertical	
4924.00	44.13	31.61	10.70	40.08	46.36	74.00	-27.64	Horizontal	
Test mode: 8	02.11b		Test char	nnel: Highest		Remark: Ave	rage		
Eroguepov	Read	Antenna	Cable	Preamp	Level	Limit Line	Over		
Frequency (MHz)	Level	Factor	Loss	Factor	(dBuV/m)	(dBuV/m)	Limit	Polar.	
(IVII 1Z)	(dBuV)	(dB/m)	(dB)	(dB)	(ubu v/III)	(ubuv/iii)	(dB)		
4924.00	36.52	31.61	10.70	40.08	38.75	54.00	-15.25	Vertical	
4924.00	35.08	31.61	10.70	40.08	37.31	54.00	-16.69	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	est mode: 802.11g			Test channel: 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	46.05	31.54	10.58	40.22	47.95	74.00	-26.05	Vertical	
4824.00	45.06	31.54	10.58	40.22	46.96	74.00	-27.04	Horizontal	
Test mode: 80	02.11g		Test channel: Lowest			Remark: Average			
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	36.52	31.54	10.58	40.22	38.42	54.00	-15.58	Vertical	
4824.00	35.06	31.54	10.58	40.22	36.96	54.00	-17.04	Horizontal	

Test mode: 80	02.11g		Test chan	nel: 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	45.16	31.57	10.64	40.15	47.22	74.00	-26.78	Vertical
4874.00	46.02	31.57	10.64	40.15	48.08	74.00	-25.92	Horizontal
Test mode: 80	02.11g		Test chan	nel: Middle		Remark: Ave	rage	
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	36.15	31.57	10.64	40.15	38.21	54.00	-15.79	Vertical
4874.00	35.22	31.57	10.64	40.15	37.28	54.00	-16.72	Horizontal

Test mode: 80	02.11g		Test char	nnel: Highest		Remark: Pea	k	
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	44.16	31.61	10.70	40.08	46.39	74.00	-27.61	Vertical
4924.00	43.29	31.61	10.70	40.08	45.52	74.00	-28.48	Horizontal
Test mode: 80	02.11g		Test char	nnel: Highest		Remark: Ave	rage	
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	35.26	31.61	10.70	40.08	37.49	54.00	-16.51	Vertical
4924.00	35.01	31.61	10.70	40.08	37.24	54.00	-16.76	Horizontal

- 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: 8	02.11n(H20)		Test char	nnel: Lowest		Remark: Pea	ık	
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	46.05	31.54	10.58	40.22	47.95	74.00	-26.05	Vertical
4824.00	45.16	31.54	10.58	40.22	47.06	74.00	-26.94	Horizontal
Test mode: 8	02.11n(H20)		Test char	nnel: Lowest		Remark: Ave	rage	
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit	Polar.
(1711 12)	(dBuV)	(dB/m)	(dB)	(dB)	(4.24.17.11)	((dB)	
4824.00	(dBuV) 36.15	(dB/m) 31.54	(dB) 10.58	(dB) 40.22	38.05	54.00	(dB) -15.95	Vertical

Test mode: 80	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	45.16	31.57	10.64	40.15	47.22	74.00	-26.78	Vertical	
4874.00	45.00	31.57	10.64	40.15	47.06	74.00	-26.94	Horizontal	
Test mode: 80	02.11n(H20)		Test char	nnel: Middle		Remark: Ave	rage		
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	35.26	31.57	10.64	40.15	37.32	54.00	-16.68	Vertical	
4874.00	36.15	31.57	10.64	40.15	38.21	54.00	-15.79	Horizontal	

Test mode: 80	02.11n(H20)		Test char	nnel: Highest		Remark: Pea	ık	
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	45.26	31.61	10.70	40.08	47.49	74.00	-26.51	Vertical
4924.00	45.18	31.61	10.70	40.08	47.41	74.00	-26.59	Horizontal
Test mode: 80	02.11n(H20)		Test char	nnel: Highest		Remark: Ave	rage	
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	36.96	31.61	10.70	40.08	39.19	54.00	-14.81	Vertical
4924.00	34.58	31.61	10.70	40.08	36.81	54.00	-17.19	Horizontal

- 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	node: 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	44.26	31.55	10.61	40.19	46.23	74.00	-27.77	Vertical	
4844.00	45.36	31.55	10.61	40.19	47.33	74.00	-26.67	Horizontal	
Test mode: 80	02.11n(H40)		Test char	nnel: Lowest		Remark: Ave	rage		
			_						
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.	
	Level	Factor	Loss	Factor			Limit	Polar.	

Test mode: 80	est 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	45.26	31.57	10.64	40.15	47.32	74.00	-26.68	Vertical	
4874.00	46.87	31.57	10.64	40.15	48.93	74.00	-25.07	Horizontal	
Test mode: 80	02.11n(H40)		Test char	nnel: Middle		Remark: Ave	rage		
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	35.26	31.57	10.64	40.15	37.32	54.00	-16.68	Vertical	
4874.00	36.58	31.57	10.64	40.15	38.64	54.00	-15.36	Horizontal	

Test mode: 80	02.11n(H40))	Test char	nnel: Highest		Remark: Pea	ık	
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	45.26	31.59	10.67	40.10	47.42	74.00	-26.58	Vertical
4904.00	44.52	31.59	10.67	40.10	46.68	74.00	-27.32	Horizontal
Test mode: 80	02.11n(H40)		Test char	nnel: Highest		Remark: Ave	rage	
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	35.26	31.59	10.67	40.10	37.42	54.00	-16.58	Vertical
4904.00	36.15	31.59	10.67	40.10	38.31	54.00	-15.69	Horizontal

- 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.