

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS15110089603

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: 21.5"Quad Core Media Player Slim Housing

Model No.: DT215-AC4-1080-SL, 502-2159ATATM

FCC ID: 2AB6Z-DT215-AC4-SL

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

Date of sample receipt: 19 Nov., 2015

Date of Test: 19 Nov., to 30 Nov., 2015

Date of report issued: 30 Nov., 2015

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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^{*} In the configuration tested, the EUT complied with the standards specified above.





Version

Version No.	Date	Description			
00	30 Nov., 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.			

Viki zhul Test Engineer Tested by: Date: 30 Nov., 2015

Reviewed by: Date: 30 Nov., 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.

Remark: Test according to ANSI C63.4:2009





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.

21.5"Quad Core Media Player Slim Housing
DT215-AC4-1080-SL, 502-2159ATATM
2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
5MHz
Direct Sequence Spread Spectrum (DSSS)
Orthogonal Frequency Division Multiplexing(OFDM)
1Mbps, 2Mbps, 5.5Mbps, 11Mbps
6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Up to 150Mbps
Omni-directional
2.5 dBi
MODEL: PS36IBCAY3000S Input: AC 100-240V 50/60Hz 1.0A Output: DC 12V, 3000mA
Model No.: DT215-AC4-1080-SL, 502-2159ATATM are electrically identical, only model number is different for customer and for HUNG WAI.





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 Freque							
		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 802.11g, 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.



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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

Radiated 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	11-10-2013	11-09-2016						
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

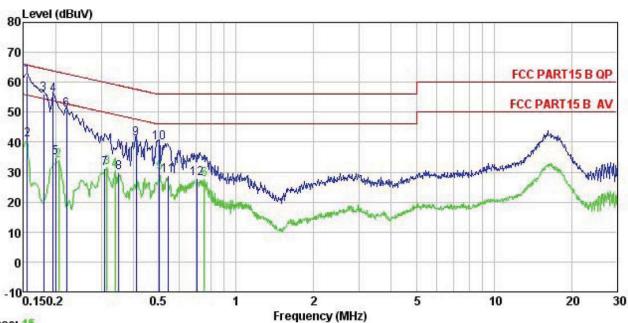
Test Requirement:	FCC Part 15 C Section 15.207								
Test Method:	ANSI C63.4: 2009	ANSI C63.4: 2009							
Test Frequency Range:	150 kHz to 30 MHz Class B RBW=9 kHz, VBW=30 kHz								
Class / Severity:									
Receiver setup:									
	Frequency range (MHz) Limit (dBuV)								
		Quasi-peak	Average						
Limit:	0.15-0.5	66 to 56*	56 to 46*						
	0.5-5	56	46						
	5-30 * Decreases with the logarithm	60	50						
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement. 								
Test setup:	Reference LISN 40cm AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Net Test table height=0.8m	BOCM LISN Filter	— AC power						
Test Instruments:	Refer to section 5.6 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Passed								
			<u></u>						

Measurement Data





Neutral:



Trace: 15

Site Condition

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : 21.5 Quad Core Media Player Slime Housin EUT

: DT215-AC4-1080-SL Model

Test Mode : WIFI mode Power Rating : AC 120V/60Hz

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

Test Engineer: Viki

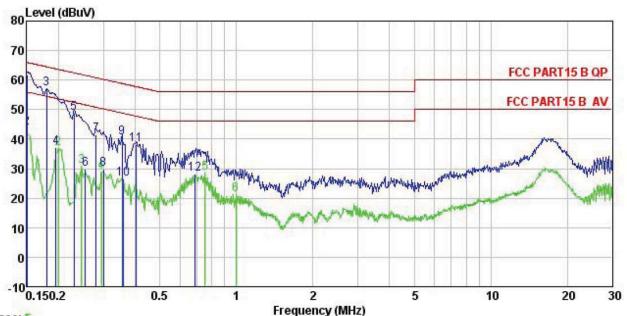
Remark

Nemaik	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark	
	MHz	dBu∜	<u>dB</u>	dB	dBu₹	—dBu∇	<u>dB</u>		
1	0.155	51.18	0.25	10.78	62.21	65.74	-3.53	QP	
2	0.155	29.79	0.25	10.78	40.82	55.74	-14.92	Average	
3	0.180	45.04	0.25	10.77	56.06	64.50	-8.44	QP	
1 2 3 4 5 6 7 8 9	0.195	44.71	0.25	10.76	55.72	63.80	-8.08	QP	
5	0.200	23.81	0.25	10.76	34.82	53.62	-18.80	Average	
6	0.220	39.62	0.25	10.76	50.63		-12.20		
7	0.310	20.03	0.26	10.74	31.03	49.97	-18.94	Average	
8	0.350	18.84	0.25	10.73	29.82	48.96	-19.14	Average	
	0.410	30.16	0.25	10.72	41.13	57.64	-16.51	QP	
10	0.505	28.85	0.29	10.76	39.90	56.00	-16.10	QP	
11	0.546	17.74	0.26	10.76	28.76	46.00	-17.24	Average	
12	0.705	16.79	0.18	10.77	27.74	46.00	-18.26	Average	





Line:



Trace: 5

Site Condition

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : 21.5 Quad Core Media Player Slime Housin EUT

Model : DT215-AC4-1080-SL

Test Mode : WIFI mode Power Rating : AC 120V/60Hz

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

Remark

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	<u>dB</u>	₫B	dBu₹	dBu∇	<u>dB</u>	
1	0.150	50.68	0.27	10.78	61.73	66.00	-4.27	QP
2	0.150	32.83	0.27	10.78	43.88	56.00	-12.12	Average
3	0.180	46.13	0.28	10.77	57.18	64.50	-7.32	QP
1 2 3 4 5 6 7 8 9	0.195	26.06	0.28	10.76	37.10	53.80	-16.70	Average
5	0.230	37.87	0.27	10.75	48.89	62.44	-13.55	QP
6	0.255	18.96	0.27	10.75	29.98	51.60	-21.62	Average
7	0.280	30.47	0.26	10.74	41.47	60.81	-19.34	QP
8	0.300	18.79	0.26	10.74	29.79	50.24	-20.45	Average
9	0.356	29.40	0.27	10.73	40.40	58.83	-18.43	QP
10	0.360	15.42	0.27	10.73	26.42	48.74	-22.32	Average
11	0.404	27.22	0.28	10.72	38.22	57.77	-19.55	QP
12	0.686	17.18	0.22	10.77	28.17	46.00	-17.83	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 and KDB558074					
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

1 3						
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)					
Test Method:	ANSI C63.4:2009 and KDB558074					
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 and KDB558074
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 and KDB558074					
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					
	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					





6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.4: 20		4.14 10.200					
Test Frequency Range:		2.3GHz to 2.5GHz						
Test site:		Measurement Distance: 3m						
	ivieasurement L	istance. Sin						
Receiver setup:	Frequency Above 1GHz	Peak 1MHz 3MHz Peak Value						
Limit:		1 Cak	I I I I I I Z	OIVII IZ	Average value			
Littit.	Freque	ency	Limit (dBuV	/m @3m)	Remark			
	Above 1	•	54.0		Average Value			
			74.0		Peak Value 0.8 meters above			
Test Procedure:	the ground to determin 2. The EUT wantenna, watower. 3. The antenry the ground Both horizon make the number of the end of the end of the end of the EUT have 10dB	at a 3 meter cane the position of the position of the position of the position of the position and height is varieto determine the postal and vertical and vertical easurement. The postal and vertical easurement at the rota table of the maximum readiceiver system of the position level of the ecified, then test would be report margin would the position of the position in the position of the position in the position of the position in the position of the positi	amber. The of the highests away from ted on the to ed from one me maximum al polarization, the EU a was turned that was turned that was turned that was turned that in peasiting could be ted. Otherwore re-tested	table was rest radiation. the interfer op of a variate meter to for a value of the arm of the arm of the arm of the cold mode. It was arranged to degree at Detect old Mode. It mode was be stopped arise the emisone by one	ence-receiving able-height antenna our meters above e field strength. Intenna are set to aged to its worst from 1 meter to 4 ees to 360 degrees Function and s 10dB lower than and the peak values ssions that did not using peak, quasi-			
Test setup:	peak or average method as specified and then reported in a data sheet. Antenna Tower Horn Antenna Spectrum Analyzer Amplifier							
Test Instruments:	Refer to section	5.6 for details						
Test 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.
2390.00	22.55	27.58	6.63	0.00	56.76	74.00	-17.24	Vertical
2390.00	22.36	27.58	6.63	0.00	56.57	74.00	-17.43	Horizontal
Test mode: 80	Test mode: 802.11b		Test channel: Lowest			Remark: Ave	erage	
				=0			nago	
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	Cable Loss	Preamp Factor		Limit Line	Over Limit	Polar.

Test mode: 802.11b			Test channel: Highest			Remark: Peak		
Frequency	Read	Antenna	Cable	Preamp	Level	Limit Line	Over	
(MHz)	Level	Factor	Loss	Factor	(dBuV/m)	(dBuV/m)	Limit	Polar.
(1011 12)	(dBuV)	(dB/m)	(dB)	(dB)	(dDd V/III)	(abav/iii)	(dB)	
2483.50	22.83	27.52	6.85	0.00	57.20	74.00	-16.80	Vertical
2483.50	22.75	27.52	6.85	0.00	57.12	74.00	-16.88	Horizontal
Test mode: 80)2.11b		Test char	nel: Highest		Remark: Ave	erage	
Erogueney	Read	Antenna	Cable	Preamp	Level	Limit Line	Over	
Frequency	Level	Factor	Loss	Factor			Limit	Polar.
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2483.50	11.53	27.52	6.85	0.00	45.90	54.00	-8.10	Vertical
2483.50	11.44	27.52	6.85	0.00	45.81	54.00	-8.19	Horizontal

Test 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/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
2390.00	28.53	27.58	6.63	0.00	62.74	74.00	-11.26	Vertical
2390.00	28.41	27.58	6.63	0.00	62.62	74.00	-11.38	Horizontal
Test mode: 80)2.11g		Test channel: Lowest			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.
2390.00	12.63	27.58	6.63	0.00	46.84	54.00	-7.16	Vertical
2390.00	12.33	27.58	6.63	0.00	46.54	54.00	-7.46	Horizontal

Test mode: 80	est mode: 802.11g			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.	
2483.50	22.53	27.52	6.85	0.00	56.90	74.00	-17.10	Vertical	
2483.50	22.36	27.52	6.85	0.00	56.73	74.00	-17.27	Horizontal	
Test mode: 80)2.11g		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.	
2483.50	11.77	27.52	6.85	0.00	46.14	54.00	-7.86	Vertical	
2483.50	11.56	27.52	6.85	0.00	45.93	54.00	-8.07	Horizontal	

Remark:

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





Test mode: 80	node: 802.11n-HT20			Test channel: 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)		
2390.00	32.36	27.58	6.63	0.00	66.57	74.00	-7.43	Vertical	
2390.00	32.28	27.58	6.63	0.00	66.49	74.00	-7.51	Horizontal	
Test mode: 80)2.11n-HT20)	Test char	nel: Lowest		Remark: Ave	erage		
	Read	Antenna	Cable	Preamp	Level	Remark: Ave	Over	D.I.	
Test mode: 80 Frequency (MHz)					Level (dBuV/m)			Polar.	
Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Polar.	

Test mode: 80	02.11n-HT20)	Test char	nel: Highest		Remark: Pea	ık	
Frequency	Read	Antenna	Cable	Preamp	Level	Limit Line	Over	
(MHz)	Level	Factor	Loss	Factor	(dBuV/m)	(dBuV/m)	Limit	Polar.
(1011 12)	(dBuV)	(dB/m)	(dB)	(dB)	(ubuv/III)	(ubu v/III)	(dB)	
2483.50	22.85	27.52	6.85	0.00	57.22	74.00	-16.78	Vertical
2483.50	22.77	27.52	6.85	0.00	57.14	74.00	-16.86	Horizontal
Test mode: 80	02.11n -HT2	0	Test char	nel: Highest		Remark: Ave	erage	
Fraguenay	Read	Antenna	Cable	Preamp	Level	Limit Line	Over	
Frequency (MHz)	Level	Factor	Loss	Factor	(dBuV/m)		Limit	Polar.
(IVITZ)	(dBuV)	(dB/m)	(dB)	(dB)	(ubuv/III)	(dBuV/m)	(dB)	
2483.50	12.53	27.52	6.85	0.00	46.90	54.00	-7.10	Vertical
2483.50	12.23	27.52	6.85	0.00	46.60	54.00	-7.40	Horizontal

Test mode: 80	02.11n -HT4	0	Test char	nnel: Lowest		Remark: Peak			
Frequency	Read	Antenna	Cable	Preamp	Level	Limit Line	Over		
(MHz)	Level	Factor	Loss	Factor	(dBuV/m)	(dBuV/m)	Limit	Polar.	
(IVITIZ)	(dBuV)	(dB/m)	(dB)	(dB)	(ubuv/iii)	(ubu v/III)	(dB)		
2390.00	21.98	27.58	6.63	0.00	56.19	74.00	-17.81	Vertical	
2390.00	21.82	27.58	6.63	0.00	56.03	74.00	-17.97	Horizontal	
Test mode: 80	02.11n -HT4	0	Test char	nnel: Lowest		Remark: Ave	erage		
Erogueney	Read	Antenna	Cable	Preamp	Level	Limit Line	Over		
Frequency	Level	Factor	Loss	Factor	(dBuV/m)		Limit	Polar.	
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(ubuv/iii)	(dBuV/m)	(dB)		
2390.00	12.43	27.58	6.63	0.00	46.64	54.00	-7.36	Vertical	
2390.00	12.32	27.58	6.63	0.00	46.53	54.00	-7.47	Horizontal	

Test mode: 80	Test mode: 802.11n -HT40			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.		
2483.50	21.56	27.52	6.85	0.00	55.93	74.00	-18.07	Vertical		
2483.50	21.43	27.52	6.85	0.00	55.80	74.00	-18.20	Horizontal		
Test mode: 80)2.11n -HT4	0	Test chan	nel: Highest		Remark: Ave	erage			
Frequency	Read	Antenna	Cable	Preamp	Level	LimitLine	Over			
(MHz)	Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	Limit Line (dBuV/m)	Limit (dB)	Polar.		
								Polar. 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 and KDB558074						
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						

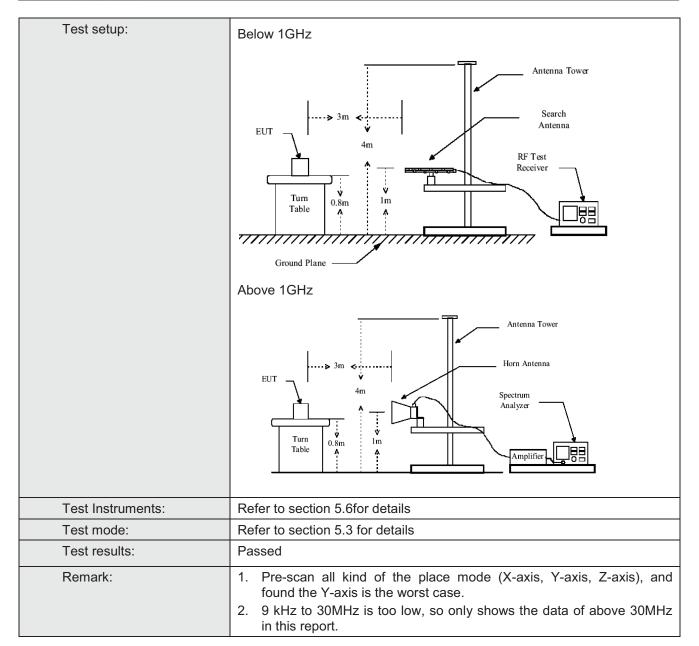




6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.209	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
	7,0000 10112	Peak	1MHz	3MHz	Average Value
Limit:					
	Freque		Limit (dBuV/		Remark
	30MHz-8		40.0		Quasi-peak Value
	88MHz-21		43.5		Quasi-peak Value
	216MHz-9 960MHz-		46.0 54.0		Quasi-peak Value Quasi-peak Value
	900101112-	IGHZ	54.0		Average Value
	Above 1	GHz	74.0		Peak Value
Test Procedure:	the ground to determin 2. The EUT wantenna, wantenna, watower. 3. The antennate ground Both horizon make the nate of the end of the end of the end of the end 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 position of the position of the would be reported to the position of the position	the top of a recamber. The tage of the highest as away from the don the top of the maximum cal polarization was turned from the maximum the was turned from the maximum the EUT in peasesting could borted. Otherwood be re-tested	otating table able was root radiation. It radiation. It he interfer op of a variate meter to for value of the ons of the art to heights from 0 degreeak Detect old Mode. It was arranged to the extension of the emisone by one	e 0.8 meters above tated 360 degrees ence-receiving able-height antenna our meters above e field strength. Intenna are set to aged to its worst from 1 meter to 4 ees to 360 degrees



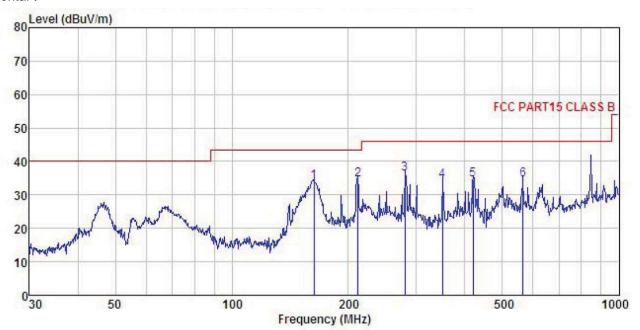






Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Condition

: 21.5 "Quad Core Media Player Slime Housin : DT215-AC4-1080-SL EUT

: DIZ15-AC4-1080-SL

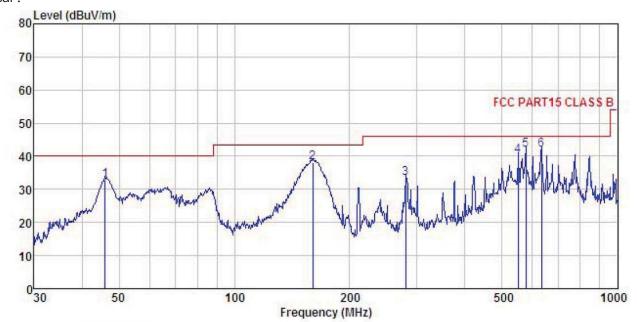
Test mode : WIFI mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Viki
REMARK :

) The state of the								
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
0	MHz	dBu∇	dB/π	<u>dB</u>	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	163.182	52.83	8.77	1.34	29.11	33.83	43.50	-9.67	QP
2	211.527	50.88	10.93	1.44	28.76	34.49	43.50	-9.01	QP
3 4	280.024	50.43	12.67	1.71	28.48	36.33	46.00	-9.67	QP
4	350.477	46.65	14.27	1.94	28.56	34.30	46.00	-11.70	QP
5	420.580	45.66	15.47	2.18	28.82	34.49	46.00	-11.51	QP
6	564.639	43.21	17.83	2.56	29.05	34.55	46.00	-11.45	QP





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL : 21.5 "Quad Core Media Player Slime Housin : DT215-AC4-1080-SL Condition

: DI215-AC4-1080-SL

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

ыши		Read	Antenna	Cable	Preamn		Limit	Over	
	Freq		Factor						Remark
_	MHz	dBu∇	<u>dB</u> /m	₫B	<u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B	
1	46.016	48.67	13.49	0.57	29.85	32.88	40.00	-7.12	QP
2	160.346	57.28	8.67	1.33	29.13	38.15	43.50	-5.35	QP
3	280.024	47.36	12.67	1.71	28.48	33.26	46.00	-12.74	QP
4	550.948	49.00	17.57	2.54	29.10	40.01	46.00	-5.99	QP
5	576.644	50.22	18.03	2.58	29.01	41.82	46.00	-4.18	QP
6	633.907	49.43	18.58	2.74	28.83	41.92	46.00	-4.08	QP





Above 1GHz

Test mode: 80	Test mode: 802.11b			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	44.23	31.54	10.58	40.22	46.13	74.00	-27.87	Vertical	
4824.00	43.78	31.54	10.58	40.22	45.68	74.00	-28.32	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	36.55	31.54	10.58	40.22	38.45	54.00	-15.55	Vertical	
4824.00	36.21	31.54	10.58	40.22	38.11	54.00	-15.89	Horizontal	

Test mode: 80	Test mode: 802.11b			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	45.29	31.57	10.64	40.15	47.35	74.00	-26.65	Vertical
4874.00	45.13	31.57	10.64	40.15	47.19	74.00	-26.81	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	36.85	31.57	10.64	40.15	38.91	54.00	-15.09	Vertical
4874.00	36.56	31.57	10.64	40.15	38.62	54.00	-15.38	Horizontal

Test mode: 80	Test mode: 802.11b			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	45.93	31.61	10.70	40.08	48.16	74.00	-25.84	Vertical
4924.00	45.84	31.61	10.70	40.08	48.07	74.00	-25.93	Horizontal
Test mode: 80	02.11b		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	35.82	31.61	10.70	40.08	38.05	54.00	-15.95	Vertical
4924.00	35.67	31.61	10.70	40.08	37.90	54.00	-16.10	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 chan	nel: Lowest		Remark: Pea	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	44.82	31.54	10.58	40.22	46.72	74.00	-27.28	Vertical	
4824.00	44.74	31.54	10.58	40.22	46.64	74.00	-27.36	Horizontal	
Test mode: 80	12 11a		Test chan	nel: Lowest		Remark: Average			
10001111040100	JZ. 1 19		1 63t Chair	illei. Lowest		Nemaik. 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.	
Frequency	Read Level	Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Polar.	

Test mode: 80	02.11g		Test char	nel: Middle		Remark: Pea	k	
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	45.88	31.57	10.64	40.15	47.94	74.00	-26.06	Vertical
4874.00	45.83	31.57	10.64	40.15	47.89	74.00	-26.11	Horizontal
Test mode: 80	02.11g		Test char	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	36.89	31.57	10.64	40.15	38.95	54.00	-15.05	Vertical
4874.00	36.52	31.57	10.64	40.15	38.58	54.00	-15.42	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	44.87	31.61	10.70	40.08	47.10	74.00	-26.90	Vertical
4924.00	44.36	31.61	10.70	40.08	46.59	74.00	-27.41	Horizontal
Test mode: 80	02.11g		Test channel: 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	34.63	31.61	10.70	40.08	36.86	54.00	-17.14	Vertical
4924.00	34.22	31.61	10.70	40.08	36.45	54.00	-17.55	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	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	45.23	31.54	10.58	40.22	47.13	74.00	-26.87	Vertical
4824.00	45.12	31.54	10.58	40.22	47.02	74.00	-26.98	Horizontal
Test mode: 80	02.11n(H20)		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.
4824.00	36.89	31.54	10.58	40.22	38.79	54.00	-15.21	Vertical
4824.00	36.55	31.54	10.58	40.22	38.45	54.00	-15.55	Horizontal

Test mode: 80	02.11n(H20)		Test char	nnel: Middle		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.
4874.00	44.52	31.57	10.64	40.15	46.58	74.00	-27.42	Vertical
4874.00	44.33	31.57	10.64	40.15	46.39	74.00	-27.61	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	35.82	31.57	10.64	40.15	37.88	54.00	-16.12	Vertical
4874.00	35.33	31.57	10.64	40.15	37.39	54.00	-16.61	Horizontal

Test mode: 80	02.11n(H20)	1	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	44.81	31.61	10.70	40.08	47.04	74.00	-26.96	Vertical
4924.00	44.72	31.61	10.70	40.08	46.95	74.00	-27.05	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	36.55	31.61	10.70	40.08	38.78	54.00	-15.22	Vertical
4924.00	36.42	31.61	10.70	40.08	38.65	54.00	-15.35	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	02.11n(H40)		Test char	nnel: Lowest		Remark: Pea		
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	44.25	31.55	10.61	40.19	46.22	74.00	-27.78	Vertical
4844.00	44.36	31.55	10.61	40.19	46.33	74.00	-27.67	Horizontal
Test mode: 80	02 11n/H/0)		Toot obor	nnel: Lowest		Remark: Average		
Tool Inodo. o	02. 1 111(11 4 0 <i>)</i>		Test chai	mei. 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.
Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Polar.

Test mode: 80	02.11n(H40)		Test char	nnel: Middle		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.
4874.00	45.23	31.57	10.64	40.15	47.29	74.00	-26.71	Vertical
4874.00	45.11	31.57	10.64	40.15	47.17	74.00	-26.83	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	35.28	31.57	10.64	40.15	37.34	54.00	-16.66	Vertical
4874.00	35.11	31.57	10.64	40.15	37.17	54.00	-16.83	Horizontal

Test mode: 80	02.11n(H40)	1	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	48.21	31.59	10.67	40.10	50.37	74.00	-23.63	Vertical
4904.00	47.63	31.59	10.67	40.10	49.79	74.00	-24.21	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	35.29	31.59	10.67	40.10	37.45	54.00	-16.55	Vertical
4904.00	35.17	31.59	10.67	40.10	37.33	54.00	-16.67	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.