

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS15080064503

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: 17.3" Android non-touch LCD Media Player

Model No.: DT173-AS4-720, 502-1739ATM

FCC ID: 2AB6Z-DT173-AS4

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

Date of sample receipt: 13 Aug., 2015

Date of Test: 13 Aug., to 15 Sep., 2015

Date of report issued: 15 Sep., 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	15 Sep., 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
Carey Chen Tested by: Date: 15 Sep., 2015

Reviewed by: Date: 15 Sep., 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.

	read and a second				
Product Name:	17.3" Android non-touch LCD Media Player				
Model No.:	DT173-AS4-720, 502-1739ATM				
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				
Remark:	Model no.: DT173-AS4-720; 502-1739ATM are electrically identical, only model no 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	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		



Report No: CCIS15060045603

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.



Report No: CCIS15060045603

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	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	11-10-2012	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								
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:	Frequency range (MHz) Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46*								
	0.5-5	56	46						
	5-30	60	50						
Test procedure	* Decreases with the logarithm1. The E.U.T and simulators								
	 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:		ence Plane							
	AUX Equipment E.U.T EMI Receiver								
	Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m								
Test Instruments:	Refer to section 5.6 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Passed								

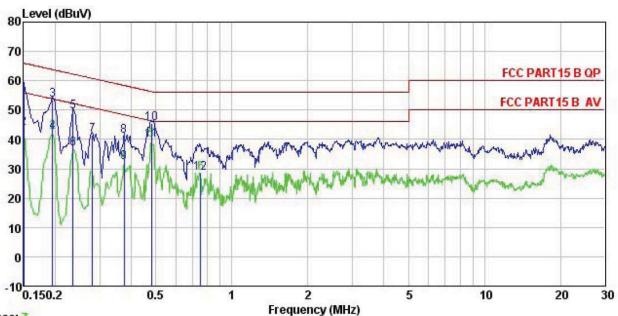
Measurement Data

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
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Bao'an District, Shenzhen, Guangdong, China
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Neutral:



Trace: 7

Site

Condition

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : 17.3" Android non-touch LCD Media Player : DT173- AS4-720 EUT

Model Test Mode : WIFI mode

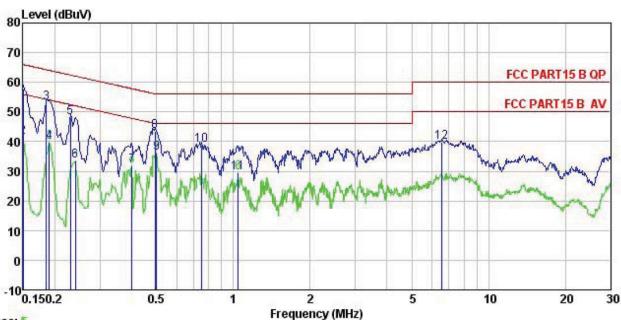
Power Rating: AC120V/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa Test Engineer: Viki

Kemark								
		Read	LISN	Cable		Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	₫₿u₹	<u>d</u> B	dB	dBu₹	dBu∀	<u>dB</u>	
1	0.150	47.23	0.25	10.78	58.26	66.00	-7.74	QP
2	0.150	32.71	0.25	10.78	43.74	56.00	-12.26	Average
3	0.195	42.53	0.25	10.76	53.54	63.80	-10.26	QP
4	0.195	31.36	0.25	10.76	42.37	53.80	-11.43	Average
5	0.235	38.48	0.25	10.75	49.48	62.26	-12.78	QP
1 2 3 4 5 6 7 8	0.235	25.99	0.25	10.75	36.99	52.26	-15.27	Average
7	0.280	30.42	0.26	10.74	41.42	60.81	-19.39	QP
8	0.375	30.13	0.25	10.72	41.10	58.39	-17.29	QP
9	0.375	21.33	0.25	10.72	32.30	48.39	-16.09	Average
10	0.481	34.55	0.28	10.75	45.58	56.32	-10.74	QP
11	0.481	28.89	0.28	10.75	39.92	46.32	-6.40	Average
12	0.751	17.66	0.19	10.79	28.64	46.00	-17.36	Average





Line:



Trace: 5

Site

Condition

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : 17.3 Android non-touch LCD Media Player EUT

Model : DT173- AS4-720 Test Mode : WIFI mode

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

Test Engineer: Viki

Remark

Comark	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	āB	dBu₹	dBu√	<u>dB</u>	
1	0.150	46.86	0.27	10.78	57.91	66.00	-8.09	QP
2	0.150	30.53	0.27	10.78	41.58	56.00	-14.42	Average
3	0.185	42.03	0.28	10.77	53.08	64.24	-11.16	QP
1 2 3 4 5 6 7 8 9	0.190	28.92	0.28	10.76	39.96	54.02	-14.06	Average
5	0.230	36.97	0.27	10.75	47.99	62.44	-14.45	QP
6	0.240	22.48	0.27	10.75	33.50	52.08	-18.58	Average
7	0.400	20.75	0.28	10.72	31.75	47.86	-16.11	Average
8	0.494	32.37	0.29	10.76	43.42	56.10	-12.68	QP
9	0.499	25.18	0.29	10.76	36.23	46.01	-9.78	Average
10	0.751	27.90	0.23	10.79	38.92	56.00	-17.08	QP
11	1.043	18.54	0.25	10.88	29.67	46.00	-16.33	Average
12	6.557	28.82	0.32	10.81	39.95	60.00	-20.05	QP

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

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
To at leaster we are to	
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 E.U.T Non-Conducted Table					
Test Instruments:	Ground Reference Plane					
Test mode:	Refer to section 5.6 for details Refer to section 5.3 for details					
Test riode.						
restresuits:	Refer to FCC ID: 2AB6Z-1859ATMB					





6.6.2 Radiated Emission Method

Tost Poquiroment:	Test Requirement: FCC Part 15 C Section 15.209 and 15.205									
Test Method:		ANSI C63.4: 2009								
Test Frequency Range:		2.3GHz to 2.5GHz								
Test site:	Measurement D	Distance: 3m								
Receiver setup:	Frequency Above 1GHz	Peak 1MHz 3MHz Peak Val								
Limit:			•	•	Ŭ					
	Freque	ency L	_imit (dBuV	/m @3m)	Remark					
	Above A	1GHz	54.0		Average Value					
Test Procedure:			74.0		Peak Value					
	to determing the EUT wantenna, watower. 3. The antennative ground Both horizon make their season and to find the specified Euglish for the EUT have 10dB	 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. 								
Test setup:	EUT	Antenna Tower Horn Antenna Spectrum Analyzer								
Test Instruments:	Refer to section	5.6 for details								
Test mode:	Refer to section									
Test results:	Passed									





Measurement Data:

Test mode: 80		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	23.88	27.58	6.63	0.00	58.09	74.00	-15.91	Vertical
2390.00	23.59	27.58	6.63	0.00	57.80	74.00	-16.20	Horizontal
Test mode: 80)2.11b		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	12.25	27.58	6.63	0.00	46.46	54.00	-7.54	Vertical
2390.00	12.47	27.58	6.63	0.00	46.68	54.00	-7.32	Horizontal

Test mode: 802.11b			Test chan	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)	(ubuv/III)	(ubuv/III)	(dB)		
2483.50	23.21	27.52	6.85	0.00	57.58	74.00	-16.42	Vertical	
2483.50	23.05	27.52	6.85	0.00	57.42	74.00	-16.58	Horizontal	
Test mode: 80)2.11b		Test channel: Highest			Remark: Average			
Fraguenay	Read	Antenna	Cable	Preamp	Level Limit Line		Over		
Frequency	Level	Factor	Loss	Factor	Level		Limit	Polar.	
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
2483.50	12.25	27.52	6.85	0.00	46.62	54.00	-7.38	Vertical	
2483.50	12.48	27.52	6.85	0.00	46.85	54.00	-7.15	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	29.25	27.58	6.63	0.00	63.46	74.00	-10.54	Vertical	
2390.00	29.14	27.58	6.63	0.00	63.35	74.00	-10.65	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/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
2390.00	13.54	27.58	6.63	0.00	47.75	54.00	-6.25	Vertical	
2390.00	13.25	27.58	6.63	0.00	47.46	54.00	-6.54	Horizontal	

Test mode: 80	Test 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	23.48	27.52	6.85	0.00	57.85	74.00	-16.15	Vertical	
2483.50	23.36	27.52	6.85	0.00	57.73	74.00	-16.27	Horizontal	
Test mode: 80)2.11g		Test chan	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	12.98	27.52	6.85	0.00	47.35	54.00	-6.65	Vertical	
2483.50	12.05	27.52	6.85	0.00	46.42	54.00	-7.58	Horizontal	

Remark:

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





Test mode: 80	Test mode: 802.11n-HT20			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.	
2390.00	33.25	27.58	6.63	0.00	67.46	74.00	-6.54	Vertical	
2390.00	33.67	27.58	6.63	0.00	67.88	74.00	-6.12	Horizontal	
Test mode: 80	02.11n-HT20)	Test char	nel: 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.	
2390.00	13.25	27.58	6.63	0.00	47.46	54.00	-6.54	Vertical	
2390.00	13.36	27.58	6.63	0.00	47.57	54.00	-6.43	Horizontal	

Test mode: 80	Test mode: 802.11n-HT20			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	23.95	27.52	6.85	0.00	58.32	74.00	-15.68	Vertical	
2483.50	23.82	27.52	6.85	0.00	58.19	74.00	-15.81	Horizontal	
Test mode: 80)2.11n -HT2	0	Test chan	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	13.16	27.52	6.85	0.00	47.53	54.00	-6.47	Vertical	
						54.00			

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.	
2390.00	22.87	27.58	6.63	0.00	57.08	74.00	-16.92	Vertical	
2390.00	22.03	27.58	6.63	0.00	56.24	74.00	-17.76	Horizontal	
Test mode: 80	02.11n -HT4	0	Test chan	nel: 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.	
2390.00	13.12	27.58	6.63	0.00	47.33	54.00	-6.67	Vertical	
2390.00	13.25	27.58	6.63	0.00	47.46	54.00	-6.54	Horizontal	

Test mode: 80	Test mode: 802.11n -HT40			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	22.34	27.52	6.85	0.00	56.71	74.00	-17.29	Vertical	
2483.50	22.98	27.52	6.85	0.00	57.35	74.00	-16.65	Horizontal	
Test mode: 80)2.11n -HT4	0	Test chan	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	11.28	27.52	6.85	0.00	45.65	54.00	-8.35	Vertical	
2483.50	11.41	27.52	6.85	0.00	45.78	54.00	-8.22	Horizontal	

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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
	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



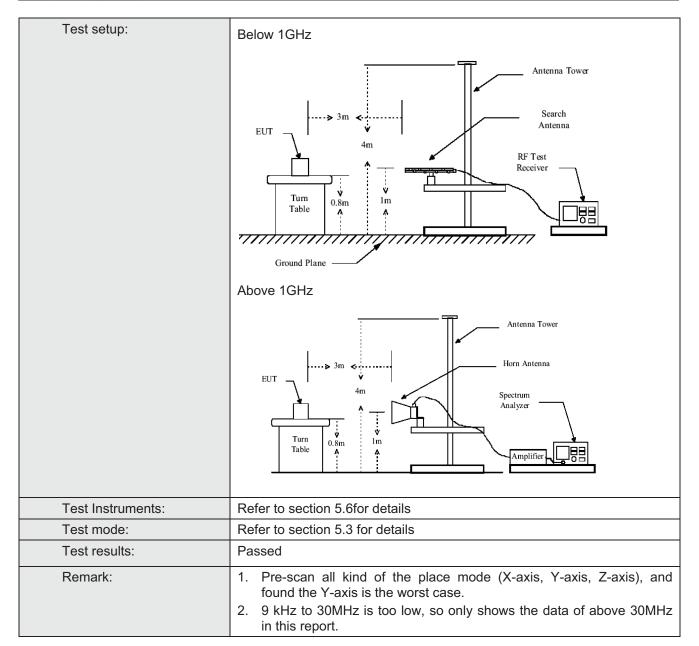


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.20	9 and 15.205							
Test Method:	ANSI C63.4:200)9								
Test Frequency Range:	9KHz to 25GHz									
Test site:	Measurement Distance: 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 IGHZ RMS 1MHz 3MHz Average Value									
Limit:	Frequency Limit (dBuV/m @3m) Remark									
	Frequency Limit (dBuV/m @3m) Remark 30MHz-88MHz 40.0 Quasi-peak Value									
	88MHz-216MHz 43.5 Quasi-peak Value									
	216MHz-960MHz 46.0 Quasi-peak Value									
	960MHz-1GHz 54.0 Quasi-peak Value 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 antennathe ground Both horizon make the make the make the maters and to find the materials and the materials	at a 3 meter of the position ras set 3 meter than the position ras set 3 meter than the position that and vertical and vertical and vertical and vertical and vertical and vertical the rota table maximum reactions are system than the position level of the position of the	camber. The tage of the highesters away from anted on the tage of the maximum cal polarization assion, the EU na was turned to was turned to was set to Pan Maximum Hale EUT in peasesting could borted. Otherwall be re-tested	able was ro st radiation. the interfer op of a varia e meter to for a value of the ons of the an T was arran to heights of from 0 degr eak Detect old Mode. ak mode wa be stopped a vise the emi one by one	e 0.8 meters above tated 360 degrees rence-receiving able-height antenna our meters above te field strength. Intenna are set to a from 1 meter to 4 ees to 360 degrees					





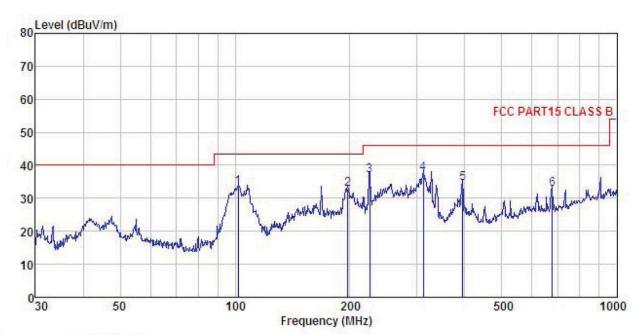






Below 1GHz

Horizontal:



Site : 3m chamber

: FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL : 17.3" Android non-touch LCD Media Player : DT173-AS4-720 Condition

EUT

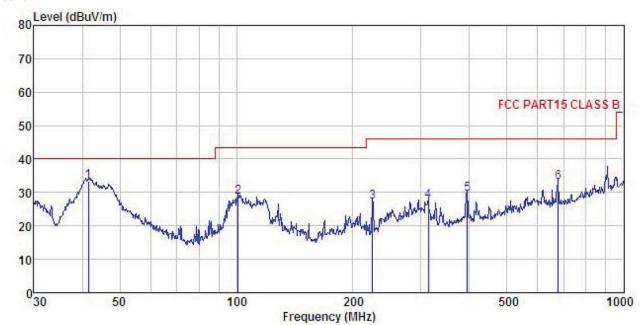
Model Power Rating: AC120V/60Hz
Environment: Temp:25.5°C Huni:55% 101KPa
Test Engineer: Viki
REMARK: Test mode : Wifi mode

EMARK									
	Even		Antenna						Panaula
	rred	rever	Factor	FORE	ractor	rever	Line	LIMIT	Kemark
-	MHz	dBu∜	—dB/m	₫B	−−−−dB	dBuV/m	dBuV/m	<u>dB</u>	
1	102.001	48.86	12.97	0.98	29.51	33.30	43.50	-10.20	QP
2	197.200	49.66	10.57	1.38	28.85	32.76	43.50	-10.74	QP
3	225.308	52.75	11.41	1.51	28.68	36.99	46.00	-9.01	QP
4	311.087	51.08	13.22	1.81	28.48	37.63	46.00	-8.37	QP
5	394.855	46.21	14.97	2.10	28.76	34.52	46.00	-11.48	QP
6	677.580	39.94	18.73	2.86	28.72	32.81	46.00	-13.19	QP





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL : 17.3 Android non-touch LCD Media Player Condition EUT

Model : DT173-AS4-720 Test mode : Wifi mode Power Rating : AC120V/60Hz

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

Test Engineer: Viki

REMARK

	Freq		Antenna Factor						
-	MHz	—dBu∇	<u>d</u> B/m	<u>d</u> B	<u>d</u> B	dBuV/m	dBuV/m		
1	41.422	49.02	13.57	0.53	29.89	33.23	40.00	-6.77	QP
2 3 4	100.934	44.03	13.06	0.97	29.52	28.54	43.50	-14.96	QP
3	224.519	42.78	11.41						
4	313.276	40.95	13.24	1.82	28.48	27.53	46.00	-18.47	QP
5	394.855	41.10	14.97	2.10	28.76	29.41	46.00	-16.59	QP
6	677.580	40.05	18.73	2.86	28.72	32.92	46.00	-13.08	QP





Above 1GHz

Test mode: 8	Test mode: 802.11b		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	45.32	31.54	10.58	40.22	47.22	74.00	-26.78	Vertical
4824.00	45.16	31.54	10.58	40.22	47.06	74.00	-26.94	Horizontal
Test mode: 8	02.11b		Test char	nnel: Lowest		Remark: Ave	erage	
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)	
4824.00	(dBuV) 36.15	(dB/m) 31.54	10.58	40.22	38.05	54.00	-15.95	Vertical

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	44.18	31.57	10.64	40.15	46.24	74.00	-27.76	Vertical	
4874.00	44.23	31.57	10.64	40.15	46.29	74.00	-27.71	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	36.25	31.57	10.64	40.15	38.31	54.00	-15.69	Vertical	
4874.00	38.98	31.57	10.64	40.15	41.04	54.00	-12.96	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	45.19	31.61	10.70	40.08	47.42	74.00	-26.58	Vertical	
4924.00	45.08	31.61	10.70	40.08	47.31	74.00	-26.69	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	37.95	31.61	10.70	40.08	40.18	54.00	-13.82	Vertical	
4924.00	37.08	31.61	10.70	40.08	39.31	54.00	-14.69	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.

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Test mode: 80	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/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4824.00	44.78	31.54	10.58	40.22	46.68	74.00	-27.32	Vertical
4824.00	44.18	31.54	10.58	40.22	46.08	74.00	-27.92	Horizontal
Test mode: 80	02.11g		Test char	nel: Lowest		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.
4824.00	37.25	31.54	10.58	40.22	39.15	54.00	-14.85	Vertical
4824.00	37.16	31.54	10.58	40.22	39.06	54.00	-14.94	Horizontal

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	48.98	31.57	10.64	40.15	51.04	74.00	-22.96	Vertical
4874.00	48.08	31.57	10.64	40.15	50.14	74.00	-23.86	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	36.25	31.57	10.64	40.15	38.31	54.00	-15.69	Vertical
4874.00	37.14	31.57	10.64	40.15	39.20	54.00	-14.80	Horizontal

Test mode: 8	02.11g		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	44.89	31.61	10.70	40.08	47.12	74.00	-26.88	Vertical
4924.00	43.25	31.61	10.70	40.08	45.48	74.00	-28.52	Horizontal
Test mode: 8	02.11g		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	34.81	31.61	10.70	40.08	37.04	54.00	-16.96	Vertical
4924.00	35.02	31.61	10.70	40.08	37.25	54.00	-16.75	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	47.87	31.54	10.58	40.22	49.77	74.00	-24.23	Vertical
4824.00	47.03	31.54	10.58	40.22	48.93	74.00	-25.07	Horizontal
Test mode: 8	02.11n(H20)		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.
4824.00	38.45	31.54	10.58	40.22	40.35	54.00	-13.65	Vertical
4824.00	38.16	31.54	10.58	40.22	40.06	54.00	-13.94	Horizontal

Test mode: 8	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	47.01	31.57	10.64	40.15	49.07	74.00	-24.93	Vertical	
4874.00	47.18	31.57	10.64	40.15	49.24	74.00	-24.76	Horizontal	
Test mode: 80	02.11n(H20)		Test channel: 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	38.92	31.57	10.64	40.15	40.98	54.00	-13.02	Vertical	
4874.00	38.46	31.57	10.64	40.15	40.52	54.00	-13.48	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	47.19	31.61	10.70	40.08	49.42	74.00	-24.58	Vertical
4924.00	47.29	31.61	10.70	40.08	49.52	74.00	-24.48	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	36.45	31.61	10.70	40.08	38.68	54.00	-15.32	Vertical
4924.00	36.28	31.61	10.70	40.08	38.51	54.00	-15.49	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 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	44.81	31.55	10.61	40.19	46.78	74.00	-27.22	Vertical
4844.00	45.36	31.55	10.61	40.19	47.33	74.00	-26.67	Horizontal
Test mode: 80	02.11n(H40)	1	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.
4844.00	37.84	31.55	10.61	40.19	39.81	54.00	-14.19	Vertical
4844.00	37.25	31.55	10.61	40.19	39.22	54.00	-14.78	Horizontal

Test mode: 8	02.11n(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	45.82	31.57	10.64	40.15	47.88	74.00	-26.12	Vertical
4874.00	45.36	31.57	10.64	40.15	47.42	74.00	-26.58	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	38.65	31.57	10.64	40.15	40.71	54.00	-13.29	Vertical
4874.00	38.25	31.57	10.64	40.15	40.31	54.00	-13.69	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	47.58	31.59	10.67	40.10	49.74	74.00	-24.26	Vertical
4904.00	47.26	31.59	10.67	40.10	49.42	74.00	-24.58	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	37.96	31.59	10.67	40.10	40.12	54.00	-13.88	Vertical
4904.00	37.56	31.59	10.67	40.10	39.72	54.00	-14.28	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.