

Global United Technology Services Co., Ltd.

Report No.: GTSE14110202601

FCC Report (WIFI)

Applicant: Striiv Inc.

Address of Applicant: 2400 Broadway Ave Suite 220 Redwood City California

United States

Equipment Under Test (EUT)

Product Name: BOX

Model No.: EB3605-TV

FCC ID: ZXO-EB3605-TV

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2013

Date of sample receipt: November 25, 2014

Date of Test: November 25, 2014-December 09, 2014

Date of report issued: December 09, 2014

Test Result: PASS *

Authorized Signature:

Robinson Lo 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 GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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



2 Version

Version No.	Date	Description
00	December 09, 2014	Original

Prepared By:	Sam. Gao	Date:	December 09, 2014	
	Project Engineer	_		
	1			

Check By:

Date: December 09, 2014

Reviewer

Shenzhen, China 518102



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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
Channel 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.

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5 General Information

5.1 Client Information

Applicant:	Striiv Inc.
Address of Applicant:	2400 Broadway Ave Suite 220 Redwood City California United States
Manufacturer/Factory:	Shenzhen E-dong Technology Co., Ltd.
Address of Manufacturer/Factory:	Room 1005, BlockEast, Phase II, Tian'an Cyber-park, Futian, Shenzhen, Guangdong, China

5.2 General Description of EUT

Product Name:	BOX
Model No.:	EB3605-TV
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	PIFA antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power supply:	Model No.: WRP2U-050200C
	Input: AC 100-240V, 50/60Hz, 0.4A Max.
	Output: DC 5.0V, 2A

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Operation Frequency each of channel							
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		

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:

Test channel	Frequency (MHz)
rest channel	802.11b/802.11g/802.11n(HT20)
Lowest channel	2412MHz
Middle channel	2437MHz
Highest channel	2462MHz

5.3 Test mode

Transmitting mode Kee	eep the EUT in continuously transmitting mode	(dutycycle >98%)
-----------------------	---	------------------

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

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.

	<u>'</u>		
Mode	802.11b	802.11g	802.11n(HT20)
Data rate	1Mbps	6Mbps	6.5Mbps

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
PHILIPS	LCD TV	19PFL3120/T3	AU1A1212002906	DOC

Shenzhen, China 518102



5.5 Test Facility

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

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Shenzhen, China 518102

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6 Test Instruments list

Radi	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	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2014	Mar. 27 2015	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	July 01 2014	June 30 2015	
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015	
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015	
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015	
11	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015	
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015	
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015	
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015	
16	Band filter	Amindeon	82346	GTS219	Mar. 29 2014	Mar. 28 2015	
17	Power Meter	Anritsu	ML2495A	GTS540	July 01 2014	June 30 2015	
18	Power Sensor	Anritsu	MA2411B	GTS541	July 01 2014	June 30 2015	

Con	Conducted Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	July 01 2014	June 30 2015			
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015			
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015			
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015			
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015			
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015			
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			

Gen	General used equipment:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015			



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

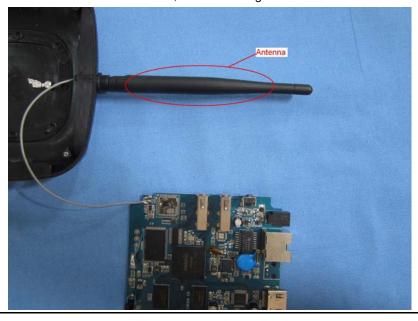
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 is PIFA antenna, the best case gain of the antenna is 2.0dBi





7.2 Conducted Emissions

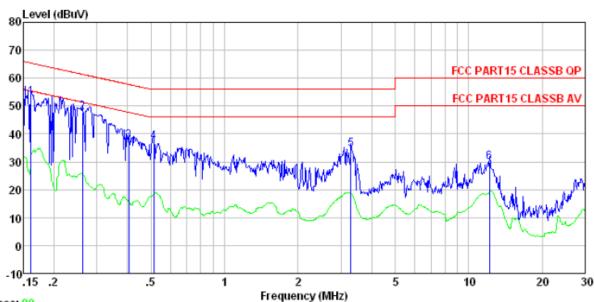
Test Requirement:	FCC Part15 C Section 15.207	,			
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	150KHz to 30MHz				
, , ,	Class B				
Class / Severity:	RBW=9KHz, VBW=30KHz, Sv	woon time-oute			
Receiver setup:	RBVV=9KHZ, VBVV=3UKHZ, SV		15.10		
Limit:	Frequency range (MHz)	Limit (c			
	0.15-0.5	Quasi-peak 66 to 56*	Average 56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.	<u> </u>		
Test setup:	Reference Plane				
	AUX Equipment Test table/Insulation plane Remark E.U.T EMI Receiver Receiver LISN Lisn Impedence Stabilization Network Test table height=0.8m				
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm 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: 2003 on conducted measurement.				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

Shenzhen, China 518102



Measurement data

Line:



Trace: 80

Site : Shielded room

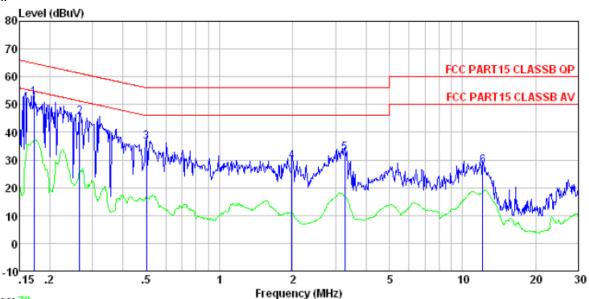
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 2026RF Test mode : Wifi mode Test Engineer: Mike

001	2116111001		LISN	Cable		Limit	Over	
	Freq		Factor					Remark
	MHz	dBuV	\overline{dB}	dB	dBuV	dBuV	dB	
1	0.162	52.97	0.15	0.12	53. 24	65.38	-12.14	QP
2 3	0.262	47.66	0.11	0.11	47.88	61.38	-13.50	QP
3	0.406	37.29	0.11	0.11	37.51	57.73	-20.22	QP
4	0.513	37.06	0.12	0.11	37.29	56.00	-18.71	QP
5	3. 293	34.06	0.18	0.15	34.39	56.00	-21.61	QP
6	12.188	29.25	0.37	0.20	29.82	60.00	-30.18	QP



Neutral:



Trace: 78

Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 2026RF Test mode : Wifi mode Test Engineer: Mike

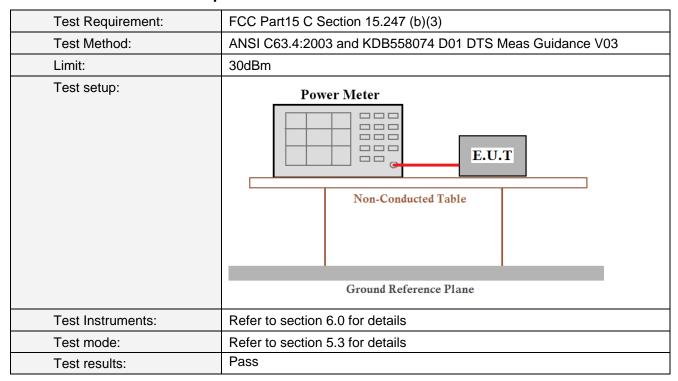
	Freq		LISN Factor				Over Limit	Remark
	MHz	dBu₹	dB	d₿	dBu₹	dBuV	dB	
1	0.172	52.29	0.07	0.12	52.48	64.86	-12.38	QP
2	0.266	45.44	0.06	0.11	45.61	61.25	-15.64	QP
3	0.499	36.43	0.06	0.11	36.60	56.01	-19.41	QP
4	1.980	29.18	0.09	0.14	29.41	56.00	-26.59	QP
5	3.276	32.21	0.13	0.15	32.49	56.00	-23.51	QP
6	12.124	27.39	0.32	0.20	27.91	60.00	-32.09	QP

Notes:

- 1. An initial pre-scan was performed on the line 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
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Conducted Peak Output Power



Measurement Data

Test CH	P	Limit(dBm)	Result			
1631 011	802.11b	802.11g	802.11n(HT20)	Limit(abin)	Nesuit	
Lowest	14.14	11.33	11.07			
Middle	14.00	11.49	11.13	30.00	Pass	
Highest	14.07	11.25	11.05			

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7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	>500KHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data

Test CH	C	Limit(KHz)	Result			
Test Off	802.11b	802.11g	802.11n(HT20)	Littit(Ki iz)	Result	
Lowest	9.546	16.629	17.677			
Middle	9.502	16.425	17.667	>500	Pass	
Highest	9.539	16.432	17.713			

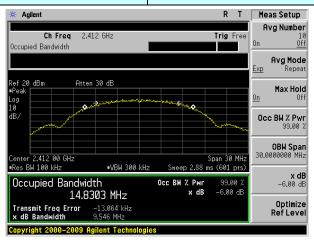
Test plot as follows:

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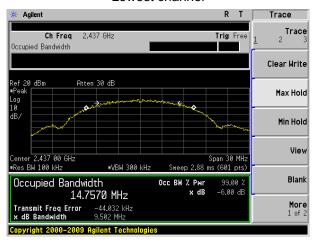
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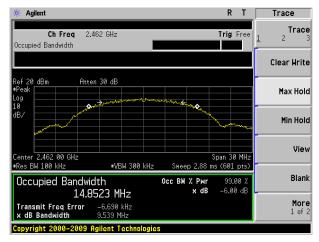
Test mode: 802.11b



Lowest channel



Middle channel

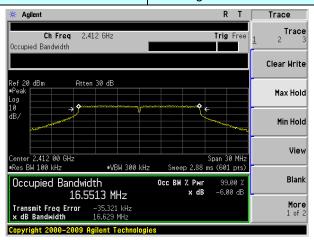


Highest channel

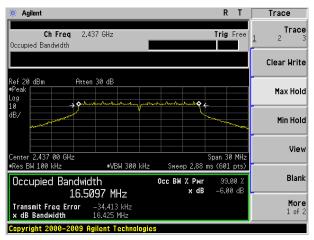
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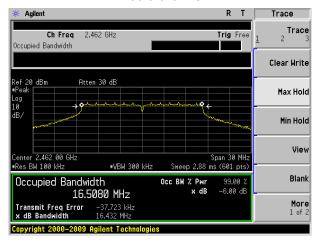
Test mode: 802.11g



Lowest channel



Middle channel

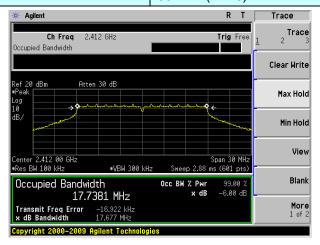


Highest channel

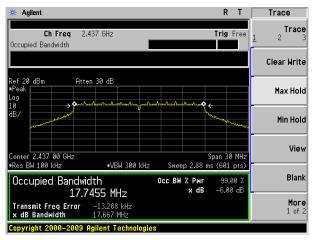
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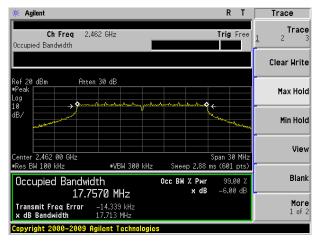
Test mode: 802.11n(HT20)



Lowest channel



Middle channel



Highest channel

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7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	8dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data

Test CH	Po	Limit(dBm/3kHz)	Result			
Test Off	802.11b	802.11g	802.11n(HT20)	LITIIL(GBITI/3KI12)	Kesuit	
Lowest	3.13	-3.34	-2.56			
Middle	2.11	-2.75	-3.48	8.00	Pass	
Highest	2.74	-3.01	-3.84			

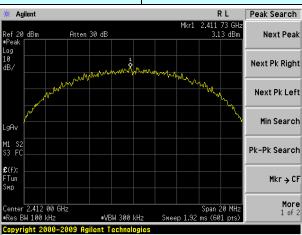
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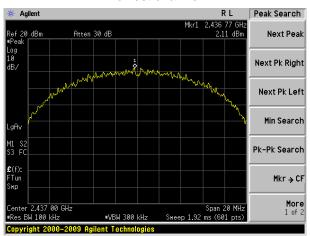
Project No.: GTSE141102026RF

Test plot as follows:

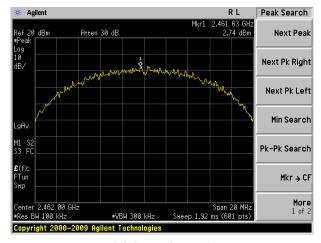
Test mode: 802.11b



Lowest channel



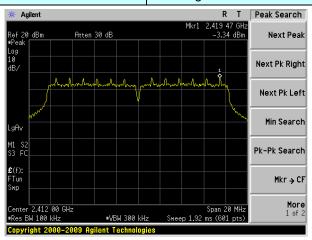
Middle channel



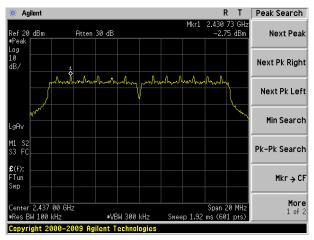
Highest channel



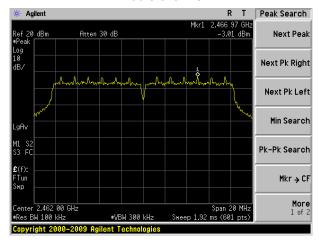
Test mode: 802.11g



Lowest channel



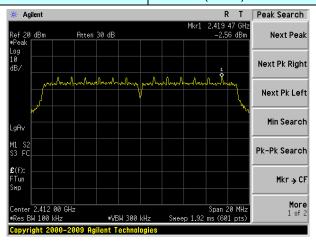
Middle channel



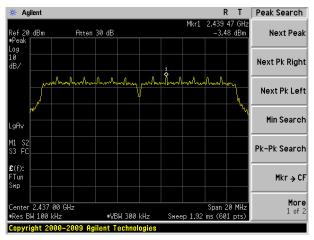
Highest channel



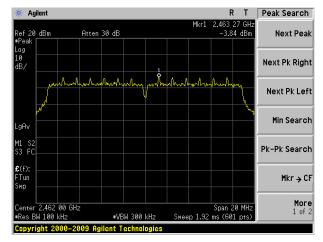
Test mode: 802.11n(HT20)



Lowest channel



Middle channel



Highest channel

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7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
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 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



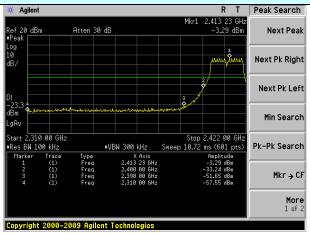
Test plot as follows:



Lowest channel

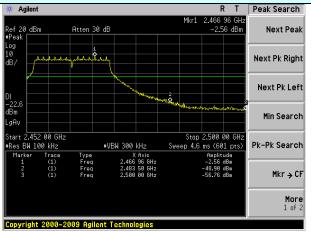
Highest channel

Test mode:



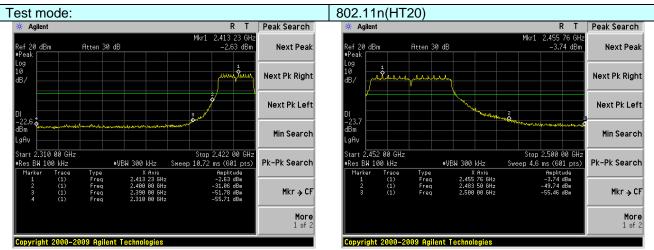
Lowest channel

802.11g



Highest channel







7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.4: 20	ANSI C63.4: 2003					
Test Frequency Range:		All of the restrict bands were tested, only the worst band's (2390MHz to 2500MHz) data was showed.					
Test site:	Measurement D						
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
·		Peak	1MHz	3MHz	Peak		
	Above 1GHz	RMS	1MHz	3MHz	Average		
Limit:	Freque	ency	Limit (dBuV	/m @3m)	Value		
			54.0		Average		
	Above 1	GHZ	74.0	0	Peak		
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table O. Sm Amplifier						
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positionin. And found the Y axis positioning which it is worse case, only the test 				ated 360 degrees to nce-receiving ale-height antenna or meters above the distrength. Both are set to make the ed to its worst case meter to 4 meters 0 degrees to find function and 10dB lower than and the peak values sions that did not using peak, quasi-pred in a data of the positioning.		
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section	5.3 for details					
Test results:	Pass						



Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

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)	Polarization
2390.00	48.31	27.59	5.38	30.18	51.10	74.00	-22.90	Horizontal
2400.00	56.20	27.58	5.39	30.18	58.99	74.00	-15.01	Horizontal
2390.00	49.76	27.59	5.38	30.18	52.55	74.00	-21.45	Vertical
2400.00	57.10	27.58	5.39	30.18	59.89	74.00	-14.11	Vertical

Average value:

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)	Polarization
2390.00	36.03	27.59	5.38	30.18	38.82	54.00	-15.18	Horizontal
2400.00	43.96	27.58	5.39	30.18	46.75	54.00	-7.25	Horizontal
2390.00	37.58	27.59	5.38	30.18	40.37	54.00	-13.63	Vertical
2400.00	44.83	27.58	5.39	30.18	47.62	54.00	-6.38	Vertical

Test mode: 802.11b	Test channel:	Highest
--------------------	---------------	---------

Peak value:

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)	Polarization
2483.50	47.53	27.53	5.47	29.93	50.60	74.00	-23.40	Horizontal
2500.00	44.43	27.55	5.49	29.93	47.54	74.00	-26.46	Horizontal
2483.50	49.11	27.53	5.47	29.93	52.18	74.00	-21.82	Vertical
2500.00	46.31	27.55	5.49	29.93	49.42	74.00	-24.58	Vertical

Average value:

, o. u.g u.								
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)	Polarization
2483.50	35.89	27.53	5.47	29.93	38.96	54.00	-15.04	Horizontal
2500.00	32.63	27.55	5.49	29.93	35.74	54.00	-18.26	Horizontal
2483.50	37.54	27.53	5.47	29.93	40.61	54.00	-13.39	Vertical
2500.00	34.38	27.55	5.49	29.93	37.49	54.00	-16.51	Vertical

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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Project No.: GTSE141102026RF

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802.11g

Test mode:

Report No.: GTSE14110202601

Lowest

rest mode.		002.1	19	163	si channei.	۱ ا	-owesi	
Peak value:	!							
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)	Polarization
2390.00	48.23	27.59	5.38	30.18	51.02	74.00	-22.98	Horizontal
2400.00	56.10	27.58	5.39	30.18	58.89	74.00	-15.11	Horizontal
2390.00	49.68	27.59	5.38	30.18	52.47	74.00	-21.53	Vertical
2400.00	56.98	27.58	5.39	30.18	59.77	74.00	-14.23	Vertical
Average va	lue:							
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)	Polarization
2390.00	35.98	27.59	5.38	30.18	38.77	54.00	-15.23	Horizontal
2400.00	43.90	27.58	5.39	30.18	46.69	54.00	-7.31	Horizontal
2390.00	37.53	27.59	5.38	30.18	40.32	54.00	-13.68	Vertical
2400.00	44.77	27.58	5.39	30.18	47.56	54.00	-6.44	Vertical
Test mode:		802.1	1g	Tes	st channel:	ŀ	Highest	
Peak value:	:							
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)	Polarization
2483.50	47.42	27.53	5.47	29.93	50.49	74.00	-23.51	Horizontal
2500.00	44.35	27.55	5.49	29.93	47.46	74.00	-26.54	Horizontal
2483.50	48.99	27.53	5.47	29.93	52.06	74.00	-21.94	Vertical
2500.00	46.21	27.55	5.49	29.93	49.32	74.00	-24.68	Vertical
Average va	lue:							_
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)	Polarizatior
2483.50	35.83	27.53	5.47	29.93	38.90	54.00	-15.10	Horizontal
2500.00	32.58	27.55	5.49	29.93	35.69	54.00	-18.31	Horizontal
2483.50	37.47	27.53	5.47	29.93	40.54	54.00	-13.46	Vertical
					1	54.00	-16.56	Vertical

The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel:

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Shenzhen, China 518102



Test mode:

Report No.: GTSE14110202601

Lowest

Peak value	:	<u>'</u>		•		•		
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)	Polarization
2390.00	48.16	27.59	5.38	30.18	50.95	74.00	-23.05	Horizontal
2400.00	56.00	27.58	5.39	30.18	58.79	74.00	-15.21	Horizontal
2390.00	49.60	27.59	5.38	30.18	52.39	74.00	-21.61	Vertical
2400.00	56.86	27.58	5.39	30.18	59.65	74.00	-14.35	Vertical
Average value:								
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)	Polarization
2390.00	35.93	27.59	5.38	30.18	38.72	54.00	-15.28	Horizontal
2400.00	43.84	27.58	5.39	30.18	46.63	54.00	-7.37	Horizontal
2390.00	37.47	27.59	5.38	30.18	40.26	54.00	-13.74	Vertical
2400.00	44.70	27.58	5.39	30.18	47.49	54.00	-6.51	Vertical
Test mode:		802.1	1n(HT20)	Te	st channel:	H	lighest	
Peak value		_			_			
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)	Polarization
2483.50	47.32	27.53	5.47	29.93	50.39	74.00	-23.61	Horizontal
2500.00	44.26	27.55	5.49	29.93	47.37	74.00	-26.63	Horizontal
2483.50	48.86	27.53	5.47	29.93	51.93	74.00	-22.07	Vertical
2500.00	46.11	27.55	5.49	29.93	49.22	74.00	-24.78	Vertical
Average va	lue:							
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)	Polarization
	(ubuv)	(/						
2483.50	35.76	27.53	5.47	29.93	38.83	54.00	-15.17	Horizontal
2483.50 2500.00		, ,	5.47 5.49	29.93 29.93	38.83 35.64	54.00 54.00	-15.17 -18.36	Horizontal Horizontal
	35.76	27.53						
2500.00	35.76 32.53	27.53 27.55	5.49	29.93	35.64	54.00	-18.36	Horizontal

Test channel:

802.11n(HT20)

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

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

The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen, China 518102

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7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
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 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

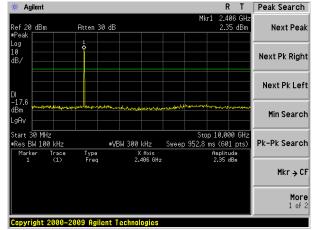


Test plot as follows:

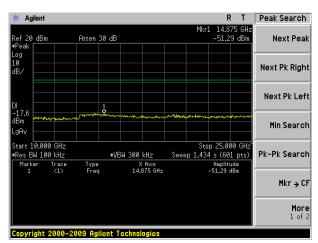
Test mode:

802.11b

Lowest channel

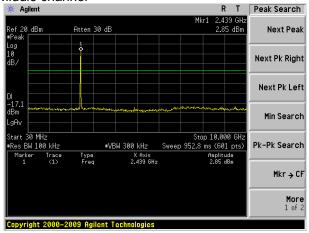


30MHz~10GHz

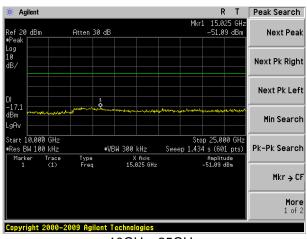


10GHz~25GHz

Middle channel

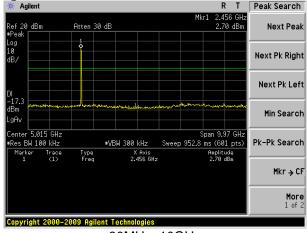


30MHz~10GHz

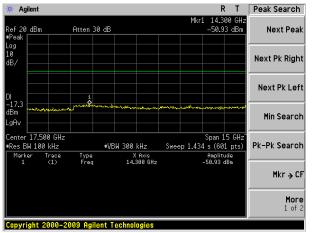


10GHz~25GHz





30MHz~10GHz



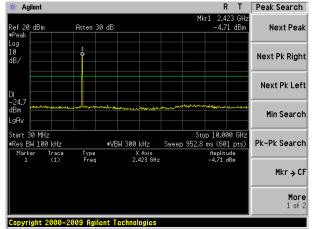
10GHz~25GHz



Test mode:

802.11g

Lowest channel

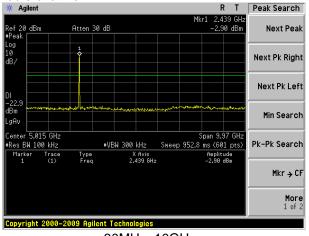


30MHz~10GHz

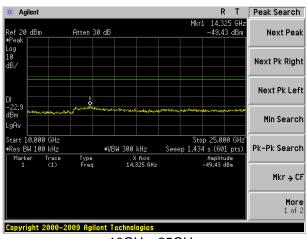
Agilent R T Peak Search Atten 30 dE Next Peak Next Pk Right Next Pk Left Min Search gAv Center Span 15 GHz Sweep 1.434 s (601 pts) es BW 100 kHz Pk-Pk Search X Axis 13.500 GHz Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

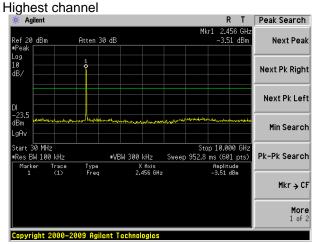
Middle channel



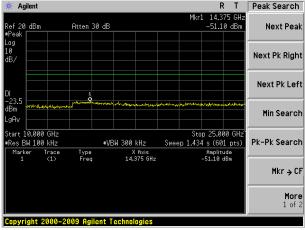
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

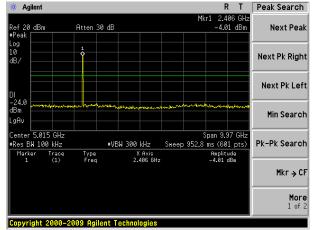


More 1 of 2

Test mode:

802.11n(HT20)

Lowest channel

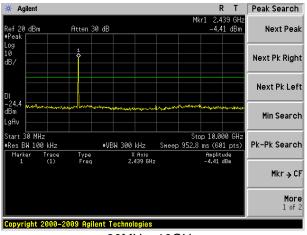


30MHz~10GHz

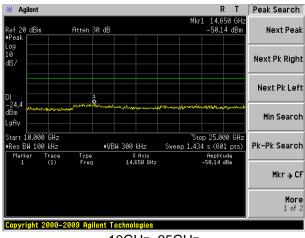
10GHz~25GHz

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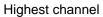
Middle channel

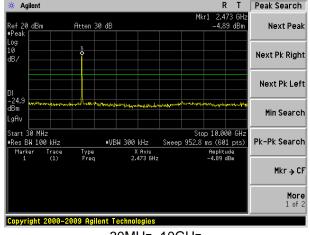


30MHz~10GHz

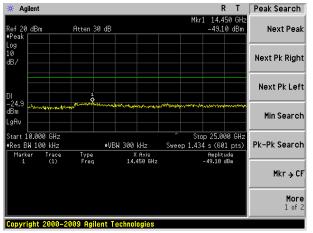


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209						
Test Method:	ANSI C63.4: 200	3						
Test Frequency Range:	30MHz to 25GHz	•						
Test site:	Measurement Dis	stance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz						
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above 1G112	RMS	1MHz	3MHz	Average			
Limit:	Frequen	cy l	_imit (dBuV/	(m @3m)	Value			
	30MHz-88	MHz	40.0	0	Quasi-peak			
	88MHz-216	SMHz	43.5	0	Quasi-peak			
	216MHz-96	0MHz	46.0	0	Quasi-peak			
	960MHz-1	GHz	54.0	0	Quasi-peak			
			54.0	0	Average			
	Above 10	HZ -	74.0	Peak				
	Tum 0.8m Table 0.8m	4m 1m		Antenna RF Test Receiver				
	Above 1GHz							



Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. 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.
	4. 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.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



Measurement Data

■ Below 1GHz

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)	polarization
35.25	42.56	14.39	0.61	32.06	25.50	40.00	-14.50	Vertical
94.43	42.05	14.75	1.15	31.74	26.21	43.50	-17.29	Vertical
170.79	45.02	11.03	1.69	32.06	25.68	43.50	-17.82	Vertical
454.31	40.90	17.58	3.11	31.70	29.89	46.00	-16.11	Vertical
654.23	36.94	20.65	3.93	31.12	30.40	46.00	-15.60	Vertical
878.32	38.06	22.87	4.77	31.21	34.49	46.00	-11.51	Vertical
30.85	35.13	14.32	0.56	32.06	17.95	40.00	-22.05	Horizontal
68.39	39.36	11.34	0.93	31.89	19.74	40.00	-20.26	Horizontal
149.49	41.63	10.26	1.56	31.98	21.47	43.50	-22.03	Horizontal
401.84	37.22	17.10	2.86	31.88	25.30	46.00	-20.70	Horizontal
689.57	35.27	20.78	4.05	31.17	28.93	46.00	-17.07	Horizontal
881.41	36.21	22.91	4.79	31.21	32.70	46.00	-13.30	Horizontal



Above 1GHz

Test mode:	802.11b		Test channel:		Lowest			
Peak value:								
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)	polarization
4824.00	42.65	31.28	8.62	24.17	58.38	74.00	-15.62	Vertical
7236.00	31.40	35.36	11.68	26.52	51.92	74.00	-22.08	Vertical
9648.00	30.95	37.44	14.16	25.44	57.11	74.00	-16.89	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.89	31.28	8.62	24.17	51.62	74.00	-22.38	Horizontal
7236.00	28.30	35.36	11.68	26.52	48.82	74.00	-25.18	Horizontal
9648.00	24.69	37.44	14.16	25.44	50.85	74.00	-23.15	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average value:								
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)	polarization
4824.00	16.99	31.28	8.62	24.17	32.72	54.00	-21.28	Vertical
7236.00	14.65	35.36	11.68	26.52	35.17	54.00	-18.83	Vertical
9648.00	11.83	37.44	14.16	25.44	37.99	54.00	-16.01	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	16.38	31.28	8.62	24.17	32.11	54.00	-21.89	Horizontal
7236.00	13.54	35.36	11.68	26.52	34.06	54.00	-19.94	Horizontal
9648.00	12.61	37.44	14.16	25.44	38.77	54.00	-15.23	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Test	channel:	Midd	le	
Peak value:								
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)	polarization
4874.00	43.49	32.02	8.66	24.12	60.05	74.00	-13.95	Vertical
7311.00	31.95	36.64	11.71	26.71	53.59	74.00	-20.42	Vertical
9748.00	31.16	38.54	14.25	25.38	58.57	74.00	-15.43	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	36.55	32.02	8.66	24.12	53.11	74.00	-20.89	Horizontal
7311.00	28.94	36.64	11.71	26.71	50.58	74.00	-23.42	Horizontal
9748.00	25.14	38.54	14.25	25.38	52.55	74.00	-21.45	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
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)	polarization
4874.00	17.44	32.02	8.66	24.12	34.00	54.00	-20.00	Vertical
7311.00	15.52	36.64	11.71	26.71	37.16	54.00	-16.84	Vertical
9748.00	12.28	38.54	14.25	25.38	39.69	54.00	-14.31	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	17.03	32.02	8.66	24.12	33.59	54.00	-20.42	Horizontal
7311.00	14.16	36.64	11.71	26.71	35.80	54.00	-18.20	Horizontal
9748.00	13.45	38.54	14.25	25.38	40.86	54.00	-13.14	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*	_				54.00		Horizontal

Remark:

Shenzhen, China 518102

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Te	est channel:	Hig	hest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	. 6//6	Limit Line (dBuV/m)	I I imit	polarization
4924.00	43.52	32.14	8.70	24.05	60.31	74.00	-13.69	Vertical
7386.00	32.18	36.75	11.76	26.90	53.79	74.00	-20.21	Vertical
9848.00	31.56	38.79	14.31	25.30	59.36	74.00	-14.64	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	36.55	32.14	8.70	24.05	53.34	74.00	-20.66	Horizontal
7386.00	29.08	36.75	11.76	26.90	50.69	74.00	-23.31	Horizontal
9848.00	25.14	38.79	14.31	25.30	52.94	74.00	-21.06	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val			,					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	. 000	Limit Line (dBuV/m)	I I imit	polarization
4924.00	17.44	32.14	8.70	24.05	34.23	54.00	-19.77	Vertical
7386.00	15.31	36.75	11.76	26.90	36.92	54.00	-17.08	Vertical
9848.00	12.65	38.79	14.31	25.30	40.45	54.00	-13.55	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	16.83	32.14	8.70	24.05	33.62	54.00	-20.38	Horizontal
7386.00	14.46	36.75	11.76	26.90	36.07	54.00	-17.93	Horizontal
9848.00	13.26	38.79	14.31	25.30	41.06	54.00	-12.94	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	lowes	st	
Peak value:								
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)	polarization
4824.00	42.43	31.28	8.62	24.17	58.16	74.00	-15.84	Vertical
7236.00	31.14	35.36	11.68	26.52	51.66	74.00	-22.34	Vertical
9648.00	30.68	37.44	14.16	25.44	56.84	74.00	-17.16	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.71	31.28	8.62	24.17	51.44	74.00	-22.56	Horizontal
7236.00	28.11	35.36	11.68	26.52	48.63	74.00	-25.37	Horizontal
9648.00	24.43	37.44	14.16	25.44	50.59	74.00	-23.41	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
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)	polarization
4824.00	16.73	31.28	8.62	24.17	32.46	54.00	-21.54	Vertical
7236.00	14.27	35.36	11.68	26.52	34.79	54.00	-19.21	Vertical
9648.00	11.45	37.44	14.16	25.44	37.61	54.00	-16.39	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	16.23	31.28	8.62	24.17	31.96	54.00	-22.04	Horizontal
7236.00	13.05	35.36	11.68	26.52	33.57	54.00	-20.43	Horizontal
9648.00	12.25	37.44	14.16	25.44	38.41	54.00	-15.59	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g			Test	channel:		Midd	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor dB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4874.00	42.38	32.02	8.66	24	.12	58.94	74.	00	-15.07	Vertical
7311.00	31.09	36.64	11.71	26	5.71	52.73	74.	00	-21.27	Vertical
9748.00	30.70	38.54	14.25	25	.38	58.11	74.	00	-15.90	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	35.51	32.02	8.66	24	.12	52.07	74.	00	-21.93	Horizontal
7311.00	28.01	36.64	11.71	26	5.71	49.65	74.	00	-24.36	Horizontal
9748.00	24.38	38.54	14.25	25	5.38	51.79	74.	00	-22.21	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor dB)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4874.00	16.65	32.02	8.66	24	.12	33.21	54.	00	-20.79	Vertical
7311.00	14.27	36.64	11.71	26	5.71	35.91	54.	00	-18.10	Vertical
9748.00	11.45	38.54	14.25	25	5.38	38.86	54.	00	-15.15	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	15.99	32.02	8.66	24	.12	32.55	54.	00	-21.46	Horizontal
7311.00	13.20	36.64	11.71	26	5.71	34.84	54.	00	-19.17	Horizontal
9748.00	12.29	38.54	14.25	25	5.38	39.70	54.	00	-14.30	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

Remark:

Shenzhen, China 518102

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	High	est	
Peak value:								
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)	polarization
4924.00	43.12	32.14	8.70	24.05	59.91	74.00	-14.09	Vertical
7386.00	31.53	36.75	11.76	26.90	53.14	74.00	-20.86	Vertical
9848.00	30.82	38.79	14.31	25.30	58.62	74.00	-15.38	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	36.04	32.14	8.70	24.05	52.83	74.00	-21.17	Horizontal
7386.00	28.55	36.75	11.76	26.90	50.16	74.00	-23.84	Horizontal
9848.00	24.73	38.79	14.31	25.30	52.53	74.00	-21.47	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
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)	polarization
4924.00	16.99	32.14	8.70	24.05	33.78	54.00	-20.22	Vertical
7386.00	15.01	36.75	11.76	26.90	36.62	54.00	-17.38	Vertical
9848.00	11.77	38.79	14.31	25.30	39.57	54.00	-14.43	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	16.50	32.14	8.70	24.05	33.29	54.00	-20.71	Horizontal
7386.00	13.70	36.75	11.76	26.90	35.31	54.00	-18.69	Horizontal
9848.00	13.02	38.79	14.31	25.30	40.82	54.00	-13.18	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	t channel:	Lowe	est	
Peak value:								
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)	polarization
4824.00	42.10	31.28	8.62	24.17	57.83	74.00	-16.17	Vertical
7236.00	30.78	35.36	11.68	26.52	51.30	74.00	-22.71	Vertical
9648.00	30.44	37.44	14.16	25.44	56.60	74.00	-17.40	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.13	31.28	8.62	24.17	50.86	74.00	-23.14	Horizontal
7236.00	27.71	35.36	11.68	26.52	48.23	74.00	-25.77	Horizontal
9648.00	24.07	37.44	14.16	25.44	50.23	74.00	-23.77	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
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)	polarization
4824.00	16.31	31.28	8.62	24.17	32.04	54.00	-21.96	Vertical
7236.00	13.88	35.36	11.68	26.52	34.40	54.00	-19.60	Vertical
9648.00	11.06	37.44	14.16	25.44	37.22	54.00	-16.78	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	15.59	31.28	8.62	24.17	31.32	54.00	-22.68	Horizontal
7236.00	12.85	35.36	11.68	26.52	33.37	54.00	-20.63	Horizontal
9648.00	11.97	37.44	14.16	25.44	38.13	54.00	-15.87	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	channel:	Midd	le	
Peak value:								
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)	polarization
4874.00	41.96	32.02	8.66	24.12	58.52	74.00	-15.48	Vertical
7311.00	30.62	36.64	11.71	26.71	52.26	74.00	-21.74	Vertical
9748.00	30.31	38.54	14.25	25.38	57.72	74.00	-16.28	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	34.94	32.02	8.66	24.12	51.50	74.00	-22.50	Horizontal
7311.00	27.56	36.64	11.71	26.71	49.20	74.00	-24.80	Horizontal
9748.00	23.92	38.54	14.25	25.38	51.33	74.00	-22.68	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
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)	polarization
4874.00	16.14	32.02	8.66	24.12	32.70	54.00	-21.30	Vertical
7311.00	13.69	36.64	11.71	26.71	35.33	54.00	-18.67	Vertical
9748.00	10.87	38.54	14.25	25.38	38.28	54.00	-15.72	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	15.39	32.02	8.66	24.12	31.95	54.00	-22.05	Horizontal
7311.00	12.68	36.64	11.71	26.71	34.32	54.00	-19.68	Horizontal
9748.00	11.81	38.54	14.25	25.38	39.22	54.00	-14.78	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	channel:	High	est	
Peak value:								
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)	polarization
4924.00	41.80	32.14	8.70	24.05	58.59	74.00	-15.41	Vertical
7386.00	30.44	36.75	11.76	26.90	52.05	74.00	-21.95	Vertical
9848.00	30.17	38.79	14.31	25.30	57.97	74.00	-16.03	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	34.72	32.14	8.70	24.05	51.51	74.00	-22.49	Horizontal
7386.00	27.39	36.75	11.76	26.90	49.00	74.00	-25.00	Horizontal
9848.00	23.74	38.79	14.31	25.30	51.54	74.00	-22.46	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
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)	polarization
4924.00	15.94	32.14	8.70	24.05	32.73	54.00	-21.27	Vertical
7386.00	13.47	36.75	11.76	26.90	35.08	54.00	-18.92	Vertical
9848.00	10.65	38.79	14.31	25.30	38.45	54.00	-15.55	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	15.16	32.14	8.70	24.05	31.95	54.00	-22.05	Horizontal
7386.00	12.48	36.75	11.76	26.90	34.09	54.00	-19.91	Horizontal
9848.00	11.63	38.79	14.31	25.30	39.43	54.00	-14.57	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

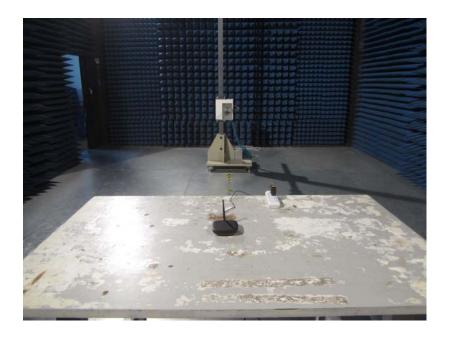
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



9 EUT Constructional Details











Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



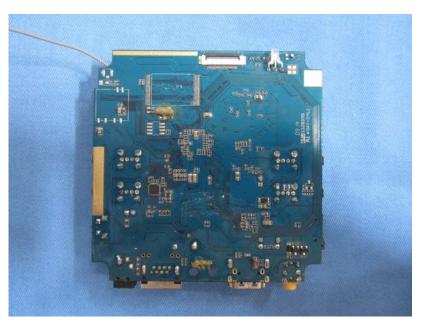




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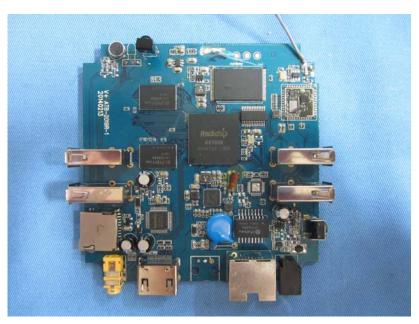




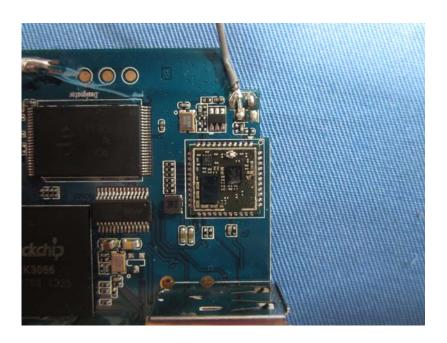
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