

# Global United Technology Services Co., Ltd.

Report No.: GTSE14030021401

# **FCC REPORT**

Applicant: Huike Electronics(shenzhen)Co.,Ltd

Address of Applicant: Huike Industry park Minying Industry park Shuitian

village, Shiyan Town, Baoan, Shenzhen, Guangdong, China

**Equipment Under Test (EUT)** 

Product Name: Mobile Internet Device

Model No.: R072C, R072F, D710IPS, R074C

Trade Mark: HKC,PORTO

FCC ID: ZFN-R072C

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

Date of sample receipt: March 03, 2014

Date of Test: March 03-13, 2014

Date of report issued: March 13, 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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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



#### Version 2

Version No.	Date	Description
00	March 13, 2014	Original

Prepared By:	Sam. Gao	Date:	March 13, 2014	
Check By:	Project Engineer	Date:	March 13, 2014	



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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:	Huike Electronics(shenzhen)Co.,Ltd	
Address of Applicant:	Huike Industry park Minying Industry park Shuitian village,Shiyan Town,Baoan,Shenzhen,Guangdong,China	
Manufacturer:	Huike Electronics(shenzhen)Co.,Ltd	
Address of Manufacturer:	Huike Industry park Minying Industry park Shuitian village, Shiyan Town, Baoan, Shenzhen, Guangdong, China	

# 5.2 General Description of EUT

Product Name:	Mobile Internet Device
Model No.:	R072C, R072F, D710IPS, R074C
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel numbers:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
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)
Antenna Type:	Integral Antenna
Antenna gain:	2dBi
Power supply:	Adapter: Model No.:JY-05200 Input: AC 100-240V, 50/60Hz, 0.3A Max Output: DC 5V, 2A



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 chamier	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)			
Lowest channel	2412MHz	2422MHz			
Middle channel	2437MHz	2437MHz			
Highest channel	2462MHz	2452MHz			

#### 5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
-------------------	--

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.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

### 5.4 Description of Support Units

None.

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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### 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



# 6 Test Instruments list

Rad	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. 29 2013	Mar. 28 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	Dec. 05 2013	Dec. 04 2014			
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 02 2013	Jul. 01 2014			
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 23 201	Feb. 22 2015			
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2013	June 27 2014			
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 29 2013	Mar. 28 2015			
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 30 2013	Mar. 29 2014			
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 30 2013	Mar. 29 2014			
11	Coaxial cable	GTS	N/A	GTS210	Mar. 30 2013	Mar. 29 2014			
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 30 2013	Mar. 29 2014			
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 02 2013	Jul. 01 2014			
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 02 2013	Jul. 01 2014			
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2013	June 27 2014			
16	Band filter	Amindeon	82346	GTS219	Mar. 30 2013	Mar. 29 2014			

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	Sep. 07 2013	Sep. 06 2015		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 02 2013	Jul. 01 2014		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 02 2013	Jul. 01 2014		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 02 2013	Jul. 01 2014		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 02 2013	Jul. 01 2014		
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 02 2013	Jul. 01 2014		
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 09 2013	July 08 2014		



### 7 Test results and Measurement Data

### 7.1 Antenna requirement:

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

#### 15.203 requirement:

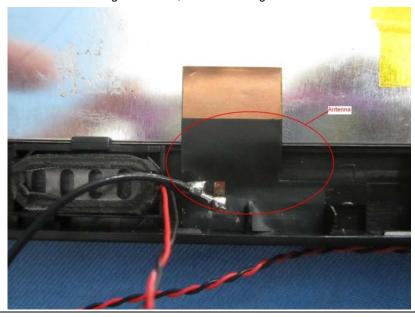
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

#### **EUT Antenna:**

The antenna is integral antenna, the best case gain of the antenna is 2dBi



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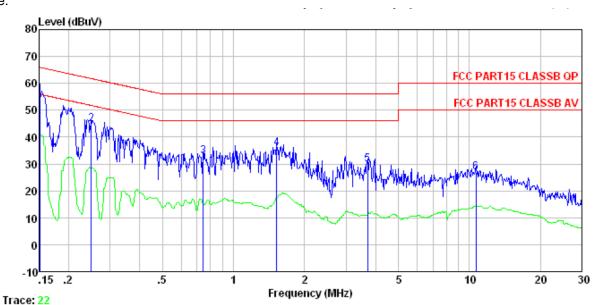
### 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.4:2003					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto				
Limit:	- (411)	Limit (c	dBuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	n of the frequency.				
Test setup:	Reference Plane		_			
	AUX Equipment  Test table/Insulation plane  Remark  E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m					
Test procedure:	<ol> <li>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 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm</li> </ol>					
	termination. (Please refer to photographs).	· ·	·			
	3. 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	i				
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					



### Measurement data

Line:



Condition : FCC PART15 CLASSB QP LISN-2013 LINE

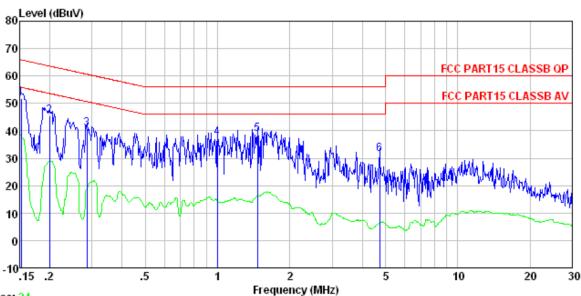
Job No. : 0214RF Test mode : WIFI mode

Test Engineer: Liu

	Freq		LISN Factor			Limit Line		Remark
-	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5	0.743 1.527	44. 48 32. 56 35. 60 29. 62	0.15 0.12 0.14 0.12 0.19 0.32	0.11 0.13 0.14 0.15	44. 71 32. 83 35. 86 29. 96	56.00 56.00 56.00	-17.07 -23.17 -20.14 -26.04	QP QP QP QP



#### Neutral:



Trace: 24

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0214RF Test mode : WIFI mode

Test Engineer: Liu

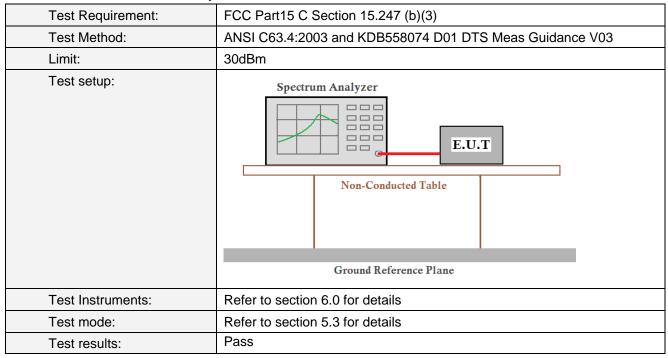
-	Freq	Read	LISN Factor				Over Limit	Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1 2 3 4 5 6	0.200 0.286 1.000 1.464	40. 74 37. 34 38. 76	0. 07 0. 06 0. 07	0.10 0.13 0.13	45. 39 40. 90 37. 54 38. 98	63.62 60.63 56.00 56.00	-18.23 -19.73 -18.46 -17.02	QP QP QP QP

### 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



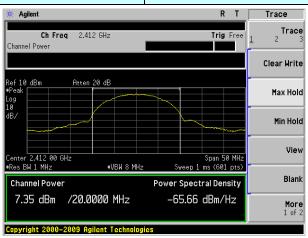
### **Measurement Data**

Test CH		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	7.35	6.92	6.53	5.80		
Middle	7.34	6.96	6.57	5.54	30.00	Pass
Highest	7.32	6.77	6.43	5.63		

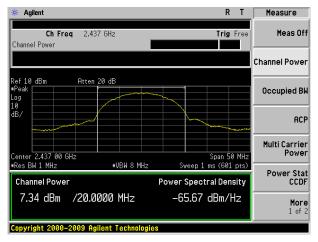


### Test plot as follows:

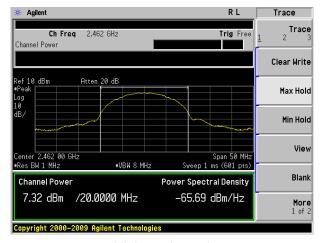
Test mode: 802.11b



#### Lowest channel



### Middle channel

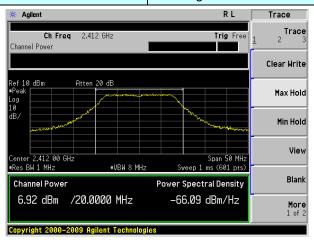


Highest channel

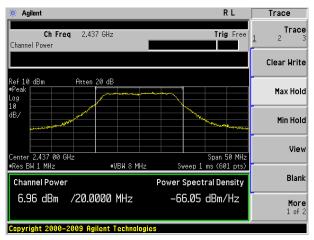
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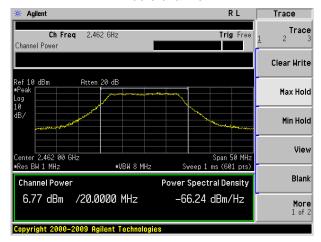
Test mode: 802.11g



#### Lowest channel



### Middle channel



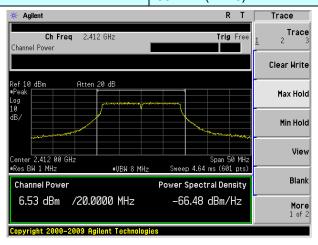
Highest channel

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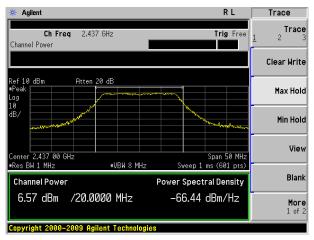


Project No.: GTSE140300214RF

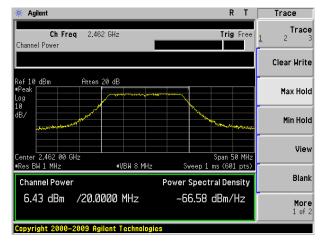
Test mode: 802.11n(HT20)



#### Lowest channel



### Middle channel



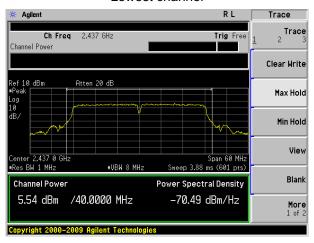
Highest channel



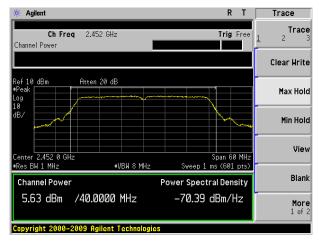
Test mode: 802.11n(HT40)



#### Lowest channel



### Middle channel



Highest channel



Project No.: GTSE140300214RF

### 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		

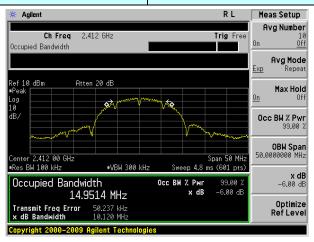
### **Measurement Data**

Test CH	Channel Bandwidth (MHz)				Limit(KHz)	Result
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littiit(Ki iz)	Result
Lowest	10.120	16.625	17.849	36.437		
Middle	10.108	16.632	17.846	36.434	>500	Pass
Highest	10.108	16.613	17.824	36.431		

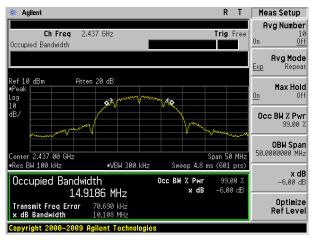
### Test plot as follows:



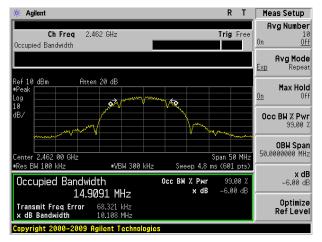
Test mode: 802.11b



#### Lowest channel



### Middle channel

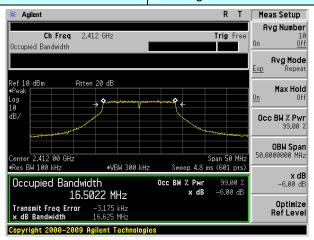


Highest channel

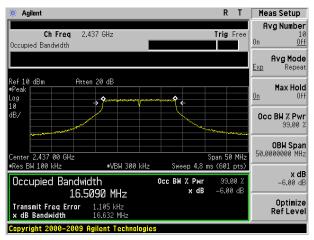
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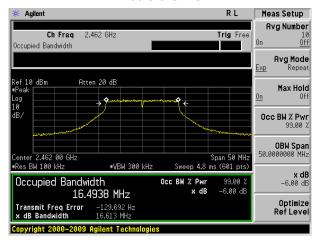
Test mode: 802.11g



#### Lowest channel



### Middle channel

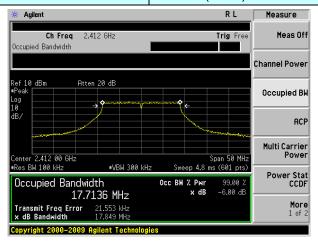


Highest channel

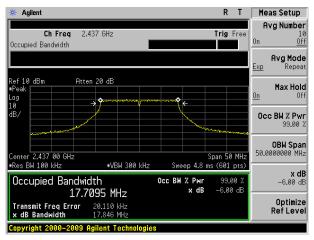
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



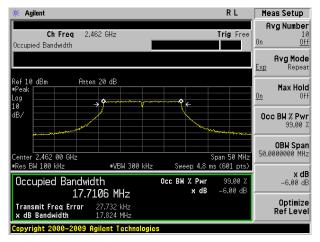
Test mode: 802.11n(HT20)



#### Lowest channel



### Middle channel

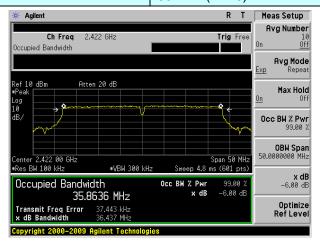


Highest channel

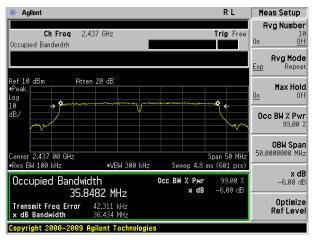
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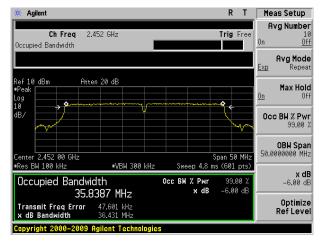
Test mode: 802.11n(HT40)



#### 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**

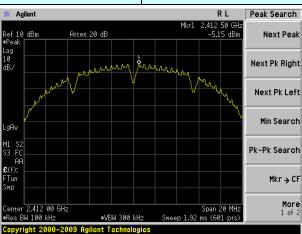
Test CH	Power Spectral Density (dBm)				Limit	Result
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Result
Lowest	-5.15	-9.55	-9.22	-14.98		
Middle	-5.41	-9.31	-10.75	-14.79	8.00	Pass
Highest	-5.53	-10.17	-11.23	-15.22		

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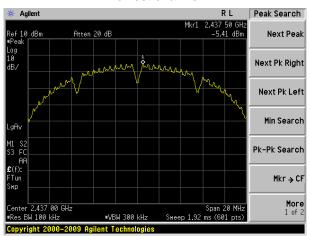


### Test plot as follows:

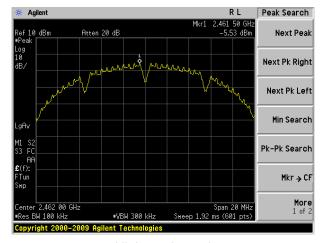
Test mode: 802.11b



#### Lowest channel



### Middle channel

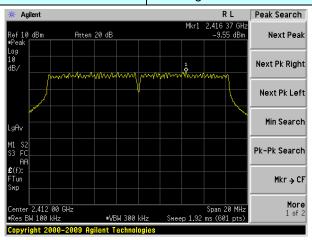


Highest channel

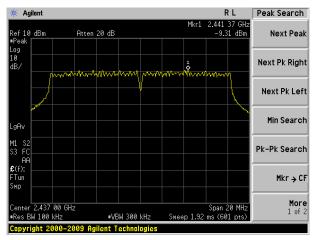
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 24 of 65



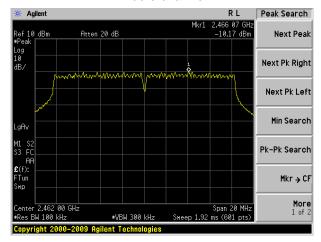
Test mode: 802.11g



#### Lowest channel



### Middle channel

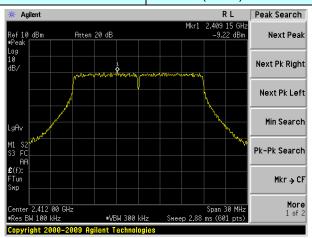


Highest channel

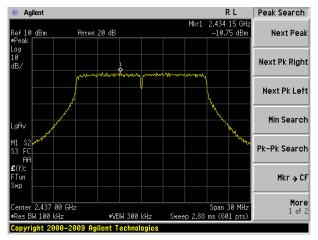
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



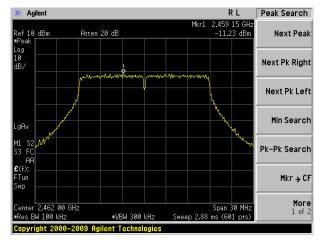
Test mode: 802.11n(HT20)



#### Lowest channel



### Middle channel

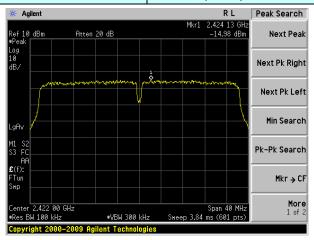


Highest channel

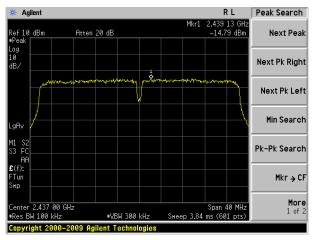
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



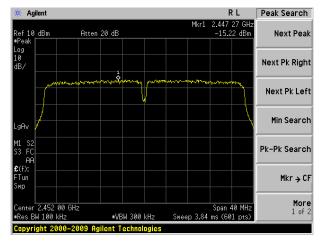
Test mode: 802.11n(HT40)



#### Lowest channel



### Middle channel



Highest channel

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# 7.6 Band edges

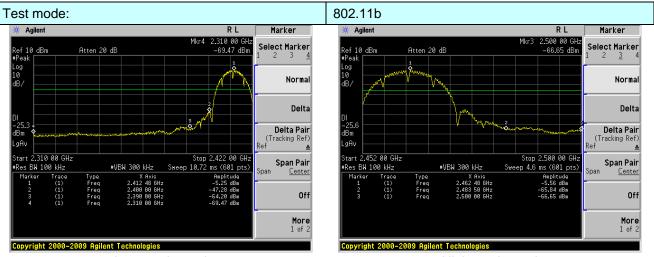
### 7.6.1 Conducted Emission Method

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:

Test mode:



More 2 of 2

Lowest channel

Highest channel

# 

Lowest channel

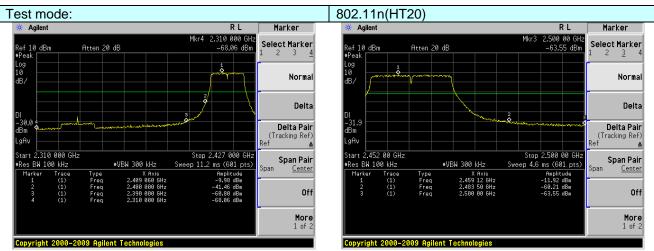


Highest channel

Shenzhen, China 518102

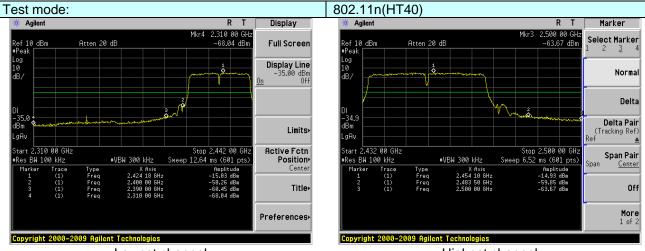
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960





Lowest channel

Highest channel



Lowest channel

Highest channel

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Project No.: GTSE140300214RF

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### 7.6.2 Radiated Emission Method

7.6.2 Radiated Emission Met					
Test Requirement:	FCC Part15 C S		and 15.205		
Test Method:	ANSI C63.4: 20	03			
Test Frequency Range:	All of the restric	t bands were	tested, only	the worst b	and's (2310MHz to
	2500MHz) data	was showed.			
Test site:	Measurement D	istance: 3m			
Receiver setup:	Frequency	Detector	RBW	VBW	Value
·		Peak	1MHz	3MHz	Peak
	Above 1GHz	Peak	1MHz	10Hz	Average
Limit:	Freque		Limit (dBuV		Value
			54.0		Average
	Above 1	GHz –	74.0		Peak
Test setup:	EUT Turn Table 0	3m 4m 4m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Antenna Tower  Horn Antenna Spectrum Analyzer  Amplifier	<b>-</b>
Test Procedure:	the ground a determine the 2. The EUT was antenna, whi tower.  3. The antenna ground to de horizontal an measurement.  4. For each sus and then the and the rotathe maximum.  5. The test-recesspecified Ba.  6. If the emission the limit specified ba.  6. If the emission the limit specified ba.  7. The radiation and found the counterpropers of the test-recesspecified ba.	t a 3 meter can e position of the s set 3 meters ch was mounted theight is varied termine the mad d vertical polar at. spected emission antenna was to table was turned antenna was t	nber. The tale highest race away from the don the top of the top o	ble was rotal diation. The interference of a variable meter to four the of the field the antennal and was arranged this from 1 mgrees to 360 at Detect Full diagnostic mode was a stopped and the emissione by one und then report med in X, Y, it is worse controlled.	le-height antenna  r meters above the d strength. Both are set to make the ed to its worst case meter to 4 meters d degrees to find unction and 10dB lower than d the peak values ions that did not sing peak, quasi-
Test Instruments:	Refer to section	ode is recorde 6.0 for details			
Test mode:	Refer to section				
Test results:	Pass	SIG IOI GOLGIIO			
root roodito.	Fd55				



### 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
1 COL III COC.	002.110	1 Cot onarmor.	LOWCOL

### 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	51.07	27.59	5.38	30.18	53.86	74.00	-20.14	Horizontal
2400.00	59.89	27.58	5.39	30.18	62.68	74.00	-11.32	Horizontal
2390.00	52.71	27.59	5.38	30.18	55.50	74.00	-18.50	Vertical
2400.00	61.53	27.58	5.39	30.18	64.32	74.00	-9.68	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	38.00	27.59	5.38	30.18	40.79	54.00	-13.21	Horizontal
2400.00	46.23	27.58	5.39	30.18	49.02	54.00	-4.98	Horizontal
2390.00	39.77	27.59	5.38	30.18	42.56	54.00	-11.44	Vertical
2400.00	47.31	27.58	5.39	30.18	50.10	54.00	-3.90	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	51.48	27.53	5.47	29.93	54.55	74.00	-19.45	Horizontal
2500.00	47.49	27.55	5.49	29.93	50.60	74.00	-23.40	Horizontal
2483.50	53.62	27.53	5.47	29.93	56.69	74.00	-17.31	Vertical
2500.00	49.90	27.55	5.49	29.93	53.01	74.00	-20.99	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
2483.50	38.28	27.53	5.47	29.93	41.35	54.00	-12.65	Horizontal
2500.00	34.49	27.55	5.49	29.93	37.60	54.00	-16.40	Horizontal
2483.50	40.17	27.53	5.47	29.93	43.24	54.00	-10.76	Vertical
2500.00	36.35	27.55	5.49	29.93	39.46	54.00	-14.54	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.

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



802.11g

Test mode:

Report No.: GTSE14030021401

Lowest

			0					
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	49.54	27.59	5.38	30.18	52.33	74.00	-21.67	Horizontal
2400.00	57.85	27.58	5.39	30.18	60.64	74.00	-13.36	Horizontal
2390.00	51.08	27.59	5.38	30.18	53.87	74.00	-20.13	Vertical
2400.00	59.08	27.58	5.39	30.18	61.87	74.00	-12.13	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	36.91	27.59	5.38	30.18	39.70	54.00	-14.30	Horizontal
2400.00	44.98	27.58	5.39	30.18	47.77	54.00	-6.23	Horizontal
2390.00	38.56	27.59	5.38	30.18	41.35	54.00	-12.65	Vertical
2400.00	45.94	27.58	5.39	30.18	48.73	54.00	-5.27	Vertical
Test mode:		802.1	1g	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	49.29	27.53	5.47	29.93	52.36	74.00	-21.64	Horizontal
2500.00	45.80	27.55	5.49	29.93	48.91	74.00	-25.09	Horizontal
2483.50	51.12	27.53	5.47	29.93	54.19	74.00	-19.81	Vertical
2500.00	47.91	27.55	5.49	29.93	51.02	74.00	-22.98	Vertical
Average va	lue:	T		1	1	1		T
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	36.96	27.53	5.47	29.93	40.03	54.00	-13.97	Horizontal
2500.00	33.46	27.55	5.49	29.93	36.57	54.00	-17.43	Horizontal
2483.50	38.71	27.53	5.47	29.93	41.78	54.00	-12.22	Vertical
2500.00 Remark:	35.26	27.55	5.49	29.93	38.37	54.00	-15.63	Vertical
. Coman.								

Test channel:

Global United Technology Services Co., Ltd.

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

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

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

Shenzhen, China 518102



Test mode:

Peak value:

Report No.: GTSE14030021401

Lowest

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	48.94	27.59	5.38	30.18	51.73	74.00	-22.27	Horizontal
2400.00	57.04	27.58	5.39	30.18	59.83	74.00	-14.17	Horizontal
2390.00	50.43	27.59	5.38	30.18	53.22	74.00	-20.78	Vertical
2400.00	58.11	27.58	5.39	30.18	60.90	74.00	-13.10	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	36.48	27.59	5.38	30.18	39.27	54.00	-14.73	Horizontal
2400.00	44.48	27.58	5.39	30.18	47.27	54.00	-6.73	Horizontal
2390.00	38.08	27.59	5.38	30.18	40.87	54.00	-13.13	Vertical
2400.00	45.40	27.58	5.39	30.18	48.19	54.00	-5.81	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	H	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	48.43	27.53	5.47	29.93	51.50	74.00	-22.50	Horizontal
2500.00	45.13	27.55	5.49	29.93	48.24	74.00	-25.76	Horizontal
2483.50	50.13	27.53	5.47	29.93	53.20	74.00	-20.80	Vertical
2500.00	47.12	27.55	5.49	29.93	50.23	74.00	-23.77	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
2483.50	36.43	27.53	5.47	29.93	39.50	54.00	-14.50	Horizontal
2500.00	33.05	27.55	5.49	29.93	36.16	54.00	-17.84	Horizontal
2483.50	38.14	27.53	5.47	29.93	41.21	54.00	-12.79	Vertical
2500.00	34.83	27.55	5.49	29.93	37.94	54.00	-16.06	Vertical
Remark:  1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor								

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

Test channel:

802.11n(HT20)

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



Test mode:

Peak value:

Report No.: GTSE14030021401

Lowest

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	47.84	27.59	5.38	30.18	50.63	74.00	-23.37	Horizontal
2400.00	55.57	27.58	5.39	30.18	58.36	74.00	-15.64	Horizontal
2390.00	49.25	27.59	5.38	30.18	52.04	74.00	-21.96	Vertical
2400.00	56.34	27.58	5.39	30.18	59.13	74.00	-14.87	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	35.69	27.59	5.38	30.18	38.48	54.00	-15.52	Horizontal
2400.00	43.58	27.58	5.39	30.18	46.37	54.00	-7.63	Horizontal
2390.00	37.21	27.59	5.38	30.18	40.00	54.00	-14.00	Vertical
2400.00	44.41	27.58	5.39	30.18	47.20	54.00	-6.80	Vertical
T (		000.4	4 - /! !T 40)	<b>-</b>	-1 -1 1	Ι,	Pale and	
Test mode:		802.1	1n(HT40)	Tes	st channel:	F	Highest	
Peak value		<u> </u>			I			ı
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	46.85	27.53	5.47	29.93	49.92	74.00	-24.08	Horizontal
2500.00	43.90	27.55	5.49	29.93	47.01	74.00	-26.99	Horizontal
2483.50	48.33	27.53	5.47	29.93	51.40	74.00	-22.60	Vertical
2500.00	45.69	27.55	5.49	29.93	48.80	74.00	-25.20	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
2483.50	35.48	27.53	5.47	29.93	38.55	54.00	-15.45	Horizontal
2500.00	32.31	27.55	5.49	29.93	35.42	54.00	-18.58	Horizontal
2483.50	37.09	27.53	5.47	29.93	40.16	54.00	-13.84	Vertical
2500.00	34.04	27.55	5.49	29.93	37.15	54.00	-16.85	Vertical
Remark:  1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor								

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

Test channel:

802.11n(HT40)

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

Shenzhen, China 518102



# 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					

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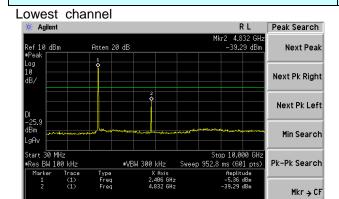


## Test plot as follows:

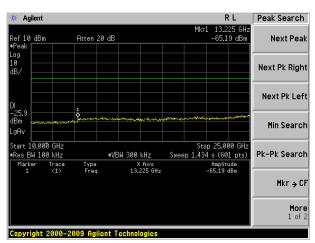
## Test mode:

## 802.11b

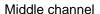
More 1 of 2



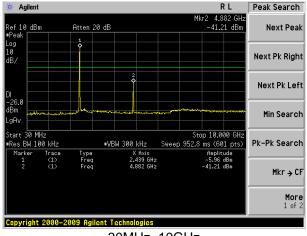
30MHz~10GHz



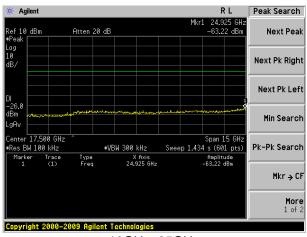
10GHz~25GHz



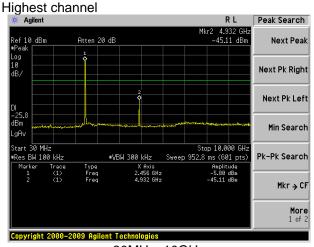
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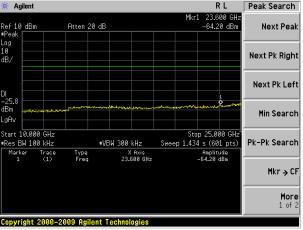
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



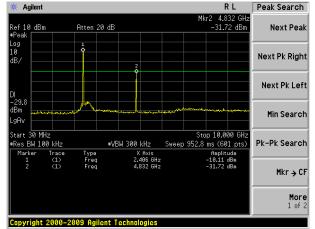
10GHz~25GHz



#### Test mode:

## 802.11g

## Lowest channel

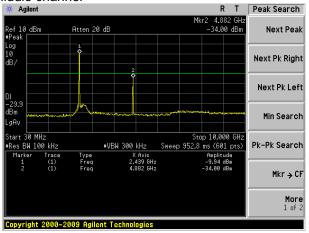


30MHz~10GHz

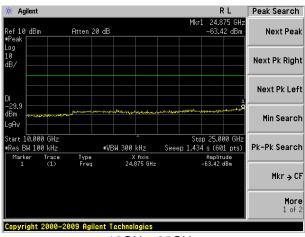
## 

10GHz~25GHz

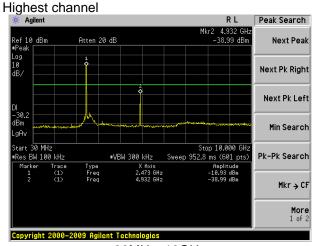
#### Middle channel



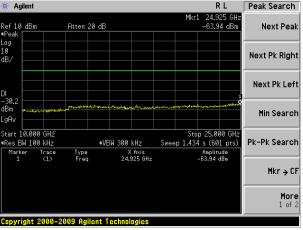
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



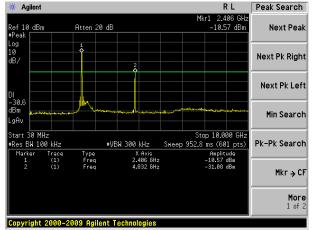
10GHz~25GHz



#### Test mode:

## 802.11n(HT20)

#### Lowest channel



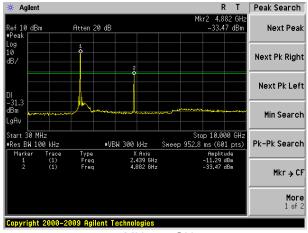
30MHz~10GHz

#### R L Peak Search 🗰 Agilent Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Center 17.500 GHz #Res BW 100 kHz Span 15 GHz Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz Amplitude -65.14 dBm X Axis 14.200 GHz Mkr → CF More 1 of 2

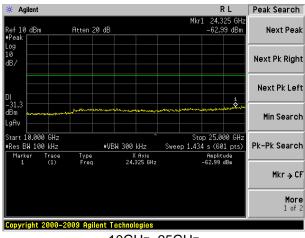
10GHz~25GHz

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## Middle channel

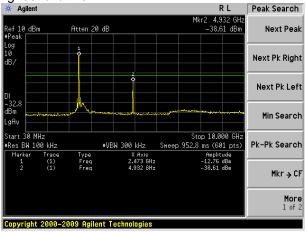


30MHz~10GHz

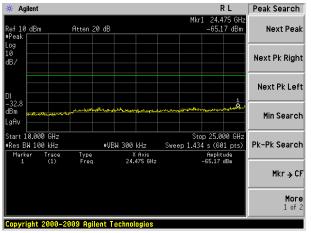


10GHz~25GHz





30MHz~10GHz



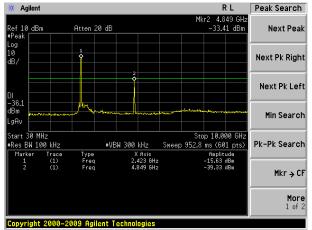
10GHz~25GHz



#### Test mode:

## 802.11n(HT40)

#### Lowest channel

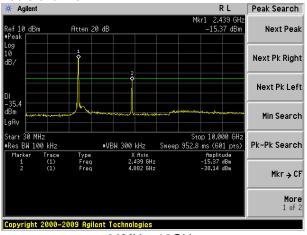


30MHz~10GHz

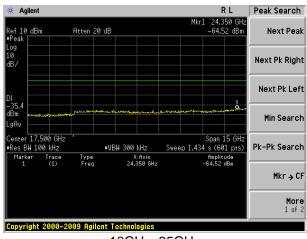
#### 🔆 Agilent Peak Search 24.375 GH: -62.94 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search ■Res BW 100 kHz Type Freq X Axis 24.375 GHz -62.94 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

## Middle channel

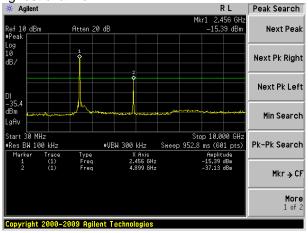


30MHz~10GHz

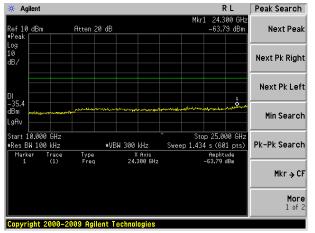


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



## 7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209									
Test Method:	FCC Part15 C Section 15.209  ANSI C63.4: 2003										
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Dis	stance: 3m									
Receiver setup:	Frequency										
	30MHz-1GHz	·									
	Abovo 1GHz	Above 1GHz Peak 1MHz 3MHz Peak									
	Above 1G112	Above 1GHz Peak 1MHz 10Hz									
Limit:	Frequen	су	Limit (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						
	Abovo 10	`U-7	54.0	0	Average						
	Above 1GHz 74.00 Peak										
	Turn 0.8m Table 0.8m A Ground Plane — Above 1GHz	4m		RF Test Receiver							
Test Procedure:	Turn Table 0.8m	placed on the	Ana	Amplifier Amplifier Call Call	1 8 meters above						

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



	the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	<ol><li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li></ol>
	<ol><li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li></ol>
	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.
	<ol><li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li></ol>
	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, quasi- peak 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 X 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.

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## **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
49.01	40.52	15.31	0.76	31.97	24.62	40.00	-15.38	Vertical
95.76	38.52	14.90	1.16	31.74	22.84	43.50	-20.66	Vertical
162.04	45.34	10.72	1.64	32.02	25.68	43.50	-17.82	Vertical
287.99	44.64	14.84	2.31	32.18	29.61	46.00	-16.39	Vertical
504.71	43.43	18.68	3.33	31.53	33.91	46.00	-12.09	Vertical
839.18	38.53	22.46	4.62	31.26	34.35	46.00	-11.65	Vertical
79.24	45.77	10.43	1.02	31.77	25.45	40.00	-14.55	Horizontal
360.45	52.12	16.43	2.67	32.00	39.22	46.00	-6.78	Horizontal
432.55	45.72	17.53	3.01	31.78	34.48	46.00	-11.52	Horizontal
633.91	37.33	20.58	3.85	31.09	30.67	46.00	-15.33	Horizontal
216.02	44.48	13.07	1.93	32.15	27.33	46.00	-18.67	Horizontal
107.89	35.58	14.44	1.26	31.80	19.48	43.50	-24.02	Horizontal



## **Above 1GHz**

Test mode:		802.11b		Test	channel:	Lowe	st	
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
4824.00	47.44	31.28	8.62	24.17	63.17	74.00	-10.83	Vertical
7236.00	36.58	35.36	11.68	26.52	57.10	74.00	-16.90	Vertical
9648.00	35.21	37.44	14.16	25.44	61.37	74.00	-12.63	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	42.33	31.28	8.62	24.17	58.06	74.00	-15.94	Horizontal
7236.00	33.89	35.36	11.68	26.52	54.41	74.00	-19.59	Horizontal
9648.00	30.49	37.44	14.16	25.44	56.65	74.00	-17.35	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	22.49	31.28	8.62	24.17	38.22	54.00	-15.78	Vertical
7236.00	20.60	35.36	11.68	26.52	41.12	54.00	-12.88	Vertical
9648.00	18.23	37.44	14.16	25.44	44.39	54.00	-9.61	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	22.52	31.28	8.62	24.17	38.25	54.00	-15.75	Horizontal
7236.00	19.09	35.36	11.68	26.52	39.61	54.00	-14.39	Horizontal
9648.00	18.78	37.44	14.16	25.44	44.94	54.00	-9.06	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

## Remark:

Project No.: GTSE140300214RF

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Te	st channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 1 4//41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	48.26	32.02	8.66	24.12	64.82	74.00	-9.18	Vertical
7311.00	37.45	36.64	11.71	26.71	59.09	74.00	-14.91	Vertical
9748.00	35.93	38.54	14.25	25.38	63.34	74.00	-10.66	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	43.42	32.02	8.66	24.12	59.98	74.00	-14.02	Horizontal
7311.00	34.87	36.64	11.71	26.71	56.51	74.00	-17.49	Horizontal
9748.00	31.50	38.54	14.25	25.38	58.91	74.00	-15.09	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)	1 41/41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	23.41	32.02	8.66	24.12	39.97	54.00	-14.03	Vertical
7311.00	21.58	36.64	11.71	26.71	43.22	54.00	-10.78	Vertical
9748.00	19.31	38.54	14.25	25.38	46.72	54.00	-7.28	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	23.53	32.02	8.66	24.12	40.09	54.00	-13.91	Horizontal
7311.00	20.02	36.64	11.71	26.71	41.66	54.00	-12.34	Horizontal
9748.00	19.87	38.54	14.25	25.38	47.28	54.00	-6.72	Horizontal
12185.00	*	_				54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		T	est o	channel:	H	lighest	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or .	Level (dBuV/m)	Limit Li (dBuV/	l limit	polarization
4924.00	48.06	32.14	8.70	24.0	5	64.85	74.00	-9.16	Vertical
7386.00	37.24	36.75	11.76	26.9	0	58.85	74.00	-15.16	Vertical
9848.00	35.75	38.79	14.31	25.3	0	63.55	74.00	-10.45	Vertical
12310.00	*						74.00	)	Vertical
14772.00	*						74.00	)	Vertical
17234.00	*						74.00	)	Vertical
4924.00	43.15	32.14	8.70	24.0	5	59.94	74.00	-14.06	Horizontal
7386.00	34.63	36.75	11.76	26.9	0	56.24	74.00	-17.77	Horizontal
9848.00	31.25	38.79	14.31	25.3	0	59.05	74.00	-14.95	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)	Prear Facto (dB	or	Level (dBuV/m)	Limit Li (dBuV/	I I imit	polarization
4924.00	23.18	32.14	8.70	24.0	5	39.97	54.00	-14.03	Vertical
7386.00	21.34	36.75	11.76	26.9	0	42.95	54.00	-11.06	Vertical
9848.00	19.04	38.79	14.31	25.3	0	46.84	54.00	-7.16	Vertical
12310.00	*						54.00	)	Vertical
14772.00	*						54.00	)	Vertical
17234.00	*						54.00	)	Vertical
4924.00	23.28	32.14	8.70	24.0	5	40.07	54.00	-13.93	Horizontal
7386.00	19.79	36.75	11.76	26.9	0	41.40	54.00	-12.61	Horizontal
9848.00	19.60	38.79	14.31	25.3	0	47.40	54.00	-6.61	Horizontal
12310.00	*						54.00	)	Horizontal
14772.00	*						54.00	)	Horizontal
17234.00	*						54.00	)	Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>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	47.26	31.28	8.62	24.17	62.99	74.00	-11.01	Vertical
7236.00	36.39	35.36	11.68	26.52	56.91	74.00	-17.09	Vertical
9648.00	35.06	37.44	14.16	25.44	61.22	74.00	-12.78	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	42.10	31.28	8.62	24.17	57.83	74.00	-16.17	Horizontal
7236.00	33.68	35.36	11.68	26.52	54.20	74.00	-19.80	Horizontal
9648.00	30.27	37.44	14.16	25.44	56.43	74.00	-17.57	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	22.29	31.28	8.62	24.17	38.02	54.00	-15.98	Vertical
7236.00	20.39	35.36	11.68	26.52	40.91	54.00	-13.09	Vertical
9648.00	18.00	37.44	14.16	25.44	44.16	54.00	-9.84	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	22.30	31.28	8.62	24.17	38.03	54.00	-15.97	Horizontal
7236.00	18.89	35.36	11.68	26.52	39.41	54.00	-14.59	Horizontal
9648.00	18.55	37.44	14.16	25.44	44.71	54.00	-9.29	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Tes	t 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	47.13	32.02	8.66	24.12	63.69	74.00	-10.31	Vertical
7311.00	36.25	36.64	11.71	26.71	57.89	74.00	-16.11	Vertical
9748.00	34.94	38.54	14.25	25.38	62.35	74.00	-11.65	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	41.92	32.02	8.66	24.12	58.48	74.00	-15.52	Horizontal
7311.00	33.52	36.64	11.71	26.71	55.16	74.00	-18.84	Horizontal
9748.00	30.11	38.54	14.25	25.38	57.52	74.00	-16.48	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	22.15	32.02	8.66	24.12	38.71	54.00	-15.30	Vertical
7311.00	20.23	36.64	11.71	26.71	41.87	54.00	-12.13	Vertical
9748.00	17.83	38.54	14.25	25.38	45.24	54.00	-8.77	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	22.14	32.02	8.66	24.12	38.70	54.00	-15.30	Horizontal
7311.00	18.74	36.64	11.71	26.71	40.38	54.00	-13.62	Horizontal
9748.00	18.37	38.54	14.25	25.38	45.78	54.00	-8.22	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Tes	st 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	47.85	32.14	8.70	24.05	64.64	74.00	-9.36	Vertical
7386.00	37.02	36.75	11.76	26.90	58.63	74.00	-15.37	Vertical
9848.00	35.57	38.79	14.31	25.30	63.37	74.00	-10.63	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.88	32.14	8.70	24.05	59.67	74.00	-14.33	Horizontal
7386.00	34.38	36.75	11.76	26.90	55.99	74.00	-18.01	Horizontal
9848.00	31.00	38.79	14.31	25.30	58.80	74.00	-15.20	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	22.95	32.14	8.70	24.05	39.74	54.00	-14.26	Vertical
7386.00	21.09	36.75	11.76	26.90	42.70	54.00	-11.30	Vertical
9848.00	18.77	38.79	14.31	25.30	46.57	54.00	-7.43	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	23.03	32.14	8.70	24.05	39.82	54.00	-14.18	Horizontal
7386.00	19.55	36.75	11.76	26.90	41.16	54.00	-12.84	Horizontal
9848.00	19.32	38.79	14.31	25.30	47.12	54.00	-6.88	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	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	46.83	31.28	8.62	24.17	62.56	74.00	-11.45	Vertical
7236.00	35.93	35.36	11.68	26.52	56.45	74.00	-17.56	Vertical
9648.00	34.67	37.44	14.16	25.44	60.83	74.00	-13.17	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	41.51	31.28	8.62	24.17	57.24	74.00	-16.76	Horizontal
7236.00	33.16	35.36	11.68	26.52	53.68	74.00	-20.33	Horizontal
9648.00	29.73	37.44	14.16	25.44	55.89	74.00	-18.11	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	21.80	31.28	8.62	24.17	37.53	54.00	-16.47	Vertical
7236.00	19.87	35.36	11.68	26.52	40.39	54.00	-13.62	Vertical
9648.00	17.42	37.44	14.16	25.44	43.58	54.00	-10.42	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	21.76	31.28	8.62	24.17	37.49	54.00	-16.51	Horizontal
7236.00	18.40	35.36	11.68	26.52	38.92	54.00	-15.09	Horizontal
9648.00	17.97	37.44	14.16	25.44	44.13	54.00	-9.88	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	T	est channel:		Midd	le	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)		Limit (dBu\		Over Limit (dB)	polarization
4874.00	46.67	32.02	8.66	24.12	63.23	74.0	00	-10.77	Vertical
7311.00	35.76	36.64	11.71	26.71	57.40	74.0	00	-16.60	Vertical
9748.00	34.54	38.54	14.25	25.38	61.95	74.0	00	-12.06	Vertical
12185.00	*					74.0	00		Vertical
14622.00	*					74.0	00		Vertical
17059.00	*					74.0	00		Vertical
4874.00	41.31	32.02	8.66	24.12	57.87	74.0	00	-16.14	Horizontal
7311.00	32.97	36.64	11.71	26.71	54.61	74.0	00	-19.39	Horizontal
9748.00	29.54	38.54	14.25	25.38	56.95	74.0	00	-17.05	Horizontal
12185.00	*					74.0	00		Horizontal
14622.00	*					74.0	00		Horizontal
17059.00	*					74.0	00		Horizontal
Average val	ue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	.   1 4//41	Limit (dBu\		Over Limit (dB)	polarization
4874.00	21.63	32.02	8.66	24.12	38.19	54.0	00	-15.81	Vertical
7311.00	19.68	36.64	11.71	26.71	41.32	54.0	00	-12.68	Vertical
9748.00	17.22	38.54	14.25	25.38	44.63	54.0	00	-9.37	Vertical
12185.00	*					54.0	00		Vertical
14622.00	*					54.0	00		Vertical
17059.00	*					54.0	00		Vertical
4874.00	21.57	32.02	8.66	24.12	38.13	54.0	00	-15.87	Horizontal
7311.00	18.22	36.64	11.71	26.71	39.86	54.0	00	-14.14	Horizontal
9748.00	17.76	38.54	14.25	25.38	45.17	54.0	00	-8.83	Horizontal
12185.00	*					54.0	00		Horizontal
14622.00	*					54.0	00		Horizontal
17059.00	*	_				54.0	00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Te	st channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 4//41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	46.49	32.14	8.70	24.05	63.28	74.00	-10.72	Vertical
7386.00	35.57	36.75	11.76	26.90	57.18	74.00	-16.82	Vertical
9848.00	34.38	38.79	14.31	25.30	62.18	74.00	-11.82	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	41.07	32.14	8.70	24.05	57.86	74.00	-16.14	Horizontal
7386.00	32.76	36.75	11.76	26.90	54.37	74.00	-19.63	Horizontal
9848.00	29.32	38.79	14.31	25.30	57.12	74.00	-16.88	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)	1 404	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	21.43	32.14	8.70	24.05	38.22	54.00	-15.78	Vertical
7386.00	19.47	36.75	11.76	26.90	41.08	54.00	-12.92	Vertical
9848.00	16.98	38.79	14.31	25.30	44.78	54.00	-9.22	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	21.35	32.14	8.70	24.05	38.14	54.00	-15.86	Horizontal
7386.00	18.02	36.75	11.76	26.90	39.63	54.00	-14.37	Horizontal
9848.00	17.53	38.79	14.31	25.30	45.33	54.00	-8.67	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2 &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)	Test channel:		Lowest		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 4//41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	46.42	31.40	8.63	24.04	62.41	74.00	-11.60	Vertical
7266.00	35.49	35.96	11.69	26.47	56.67	74.00	-17.33	Vertical
9688.00	34.31	37.71	14.21	25.30	60.93	74.00	-13.07	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	40.96	31.40	8.63	24.04	56.95	74.00	-17.05	Horizontal
7266.00	32.67	35.96	11.69	26.47	53.85	74.00	-20.16	Horizontal
9688.00	29.22	37.71	14.21	25.30	55.84	74.00	-18.16	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)	1 404	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	21.34	31.40	8.63	24.04	37.33	54.00	-16.67	Vertical
7266.00	19.38	35.96	11.69	26.47	40.56	54.00	-13.45	Vertical
9688.00	16.88	37.71	14.21	25.30	43.50	54.00	-10.50	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	21.25	31.40	8.63	24.04	37.24	54.00	-16.76	Horizontal
7266.00	17.93	35.96	11.69	26.47	39.11	54.00	-14.89	Horizontal
9688.00	17.42	37.71	14.21	25.30	44.04	54.00	-9.96	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. "\*", means this data is the too weak instrument of signal is unable to test.

Shenzhen, China 518102



Test mode:		802.11n(H	IT40)	Test channel:		Middle		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	46.32	32.02	8.66	24.12	62.88	74.00	-11.12	Vertical
7311.00	35.39	36.64	11.71	26.71	57.03	74.00	-16.97	Vertical
9748.00	34.23	38.54	14.25	25.38	61.64	74.00	-12.36	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.84	32.02	8.66	24.12	57.40	74.00	-16.60	Horizontal
7311.00	32.55	36.64	11.71	26.71	54.19	74.00	-19.81	Horizontal
9748.00	29.11	38.54	14.25	25.38	56.52	74.00	-17.48	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)	Pream Factor (dB)	1 404	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	21.24	32.02	8.66	24.12	37.80	54.00	-16.20	Vertical
7311.00	19.26	36.64	11.71	26.71	40.90	54.00	-13.10	Vertical
9748.00	16.76	38.54	14.25	25.38	44.17	54.00	-9.83	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	21.14	32.02	8.66	24.12	37.70	54.00	-16.30	Horizontal
7311.00	17.83	36.64	11.71	26.71	39.47	54.00	-14.53	Horizontal
9748.00	17.30	38.54	14.25	25.38	44.71	54.00	-9.29	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*	_				54.00		Horizontal

## Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:	802.11n(HT40)		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
4904.00	46.21	32.08	8.68	23.97	63.00	74.00	-11.00	Vertical
7356.00	35.27	36.69	11.74	26.73	56.97	74.00	-17.03	Vertical
9808.00	34.13	38.60	14.29	25.22	61.80	74.00	-12.20	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	40.69	32.08	8.68	23.97	57.48	74.00	-16.52	Horizontal
7356.00	32.42	36.69	11.74	26.73	54.12	74.00	-19.88	Horizontal
9808.00	28.97	38.60	14.29	25.22	56.64	74.00	-17.36	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
4904.00	21.11	32.08	8.68	23.97	37.90	54.00	-16.10	Vertical
7356.00	19.13	36.69	11.74	26.73	40.83	54.00	-13.17	Vertical
9808.00	16.61	38.60	14.29	25.22	44.28	54.00	-9.72	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	21.00	32.08	8.68	23.97	37.79	54.00	-16.21	Horizontal
7356.00	17.70	36.69	11.74	26.73	39.40	54.00	-14.60	Horizontal
9808.00	17.15	38.60	14.29	25.22	44.82	54.00	-9.18	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

## Remark:

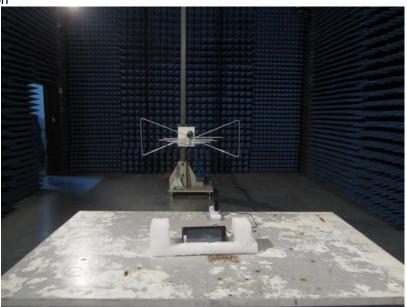
<sup>1</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

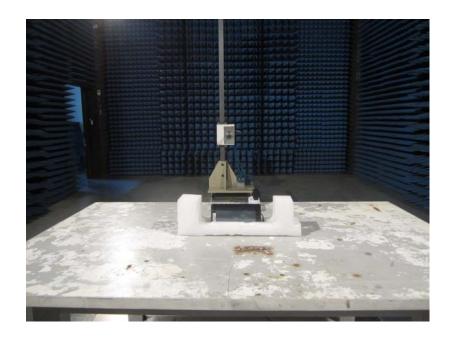
<sup>2 &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



# 8 Test Setup Photo

Radiated Emission







## Conducted Emission



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

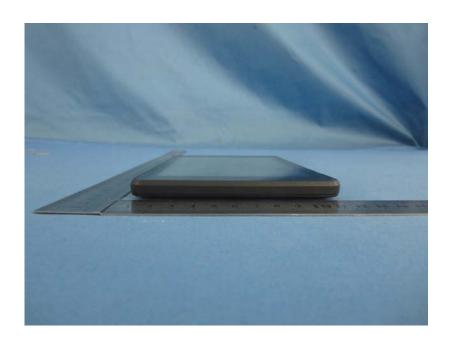


## 9 EUT Constructional Details

















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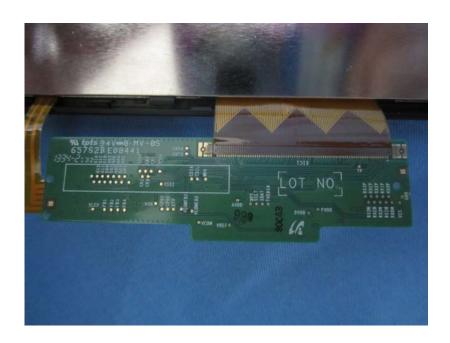


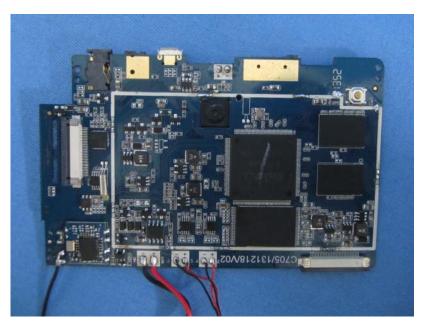




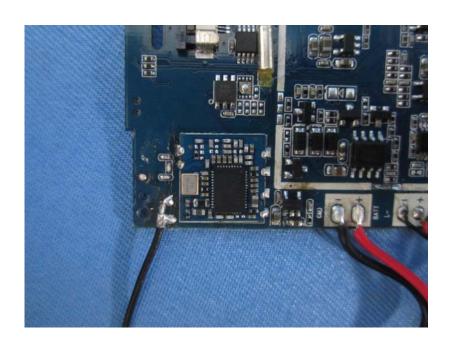
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960





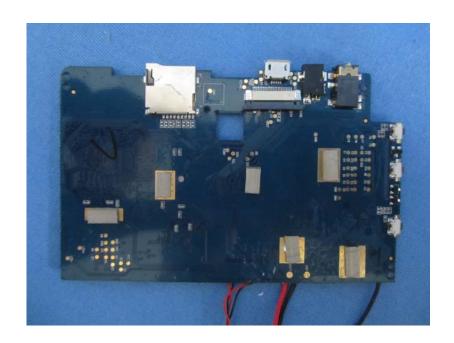


















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