

# Global United Technology Services Co., Ltd.

Report No.: GTSE13120192301

# FCC REPORT

Applicant: iDeaUSA Products Inc.

**Address of Applicant:** 2300 E. Curry St., Long Beach, CA 90805

**Equipment Under Test (EUT)** 

Product Name: Tablet PC

Model No.: CT10

Trade Mark: **iDeaUSA** 

FCC ID: 2ABHNCT10

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2012

Date of sample receipt: July 18, 2013

Date of Test: July 18-August 29, 2013

Date of report issued: December 11, 2013

PASS \* Test Result:

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.



## 2 Version

Version No.	Date	Description
00	December 11, 2013	Original

Prepared By:	hank yan.	Date:	December 11, 2013	
	Project Engineer			
Check By:	Homs. Hu	Date:	December 11, 2013	
	Poviowor	<del></del>		Ξ

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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:	iDeaUSA Products Inc.
Address of Applicant:	2300 E. Curry St.,Long Beach, CA 90805
Manufacturer:	SHENZHEN GIEC ELECTRONICS CO., LTD.
Address of Manufacturer:	24/F, Building A Xinian Center, No. 6021 Shennan Road, Shenzhen, Guangdong, China
Factory:	SHENZHEN GIEC ELECTRIC MANUFACTORY CO., LTD.
Address of Factory:	No.1 Building,Factory,No.7 District,Dayang Development Areas, FuYong Street,Baoan,Shenzhen,Guangdong,China

# 5.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	CT10
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
	802.11n(HT40): 2422MHz~2452MHz
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
	802.11(HT40): 7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)
	802.11g/802.11n(H20)/802.11n(H40):
	Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral Antenna
Antenna gain:	2.00dBi (declare by Applicant)
Power supply:	Adapter:
	Model No.:HK15-HASF0502000
	Input: AC 100~240V 50/60Hz 0.3A
	Output: DC 5.0V 2.0A
	Or
	DC 3.7V Li-ion Battery



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, July 20, 2010.

#### • Industry Canada (IC)

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. 29 2013	Mar. 28 2014		
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. 6, 2012	Dec. 5, 2013		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 02 2013	Jul. 01 2014		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 24 2013	Feb. 23 2014		
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 2014		
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. 08 2011	Sep. 07 2013		
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:

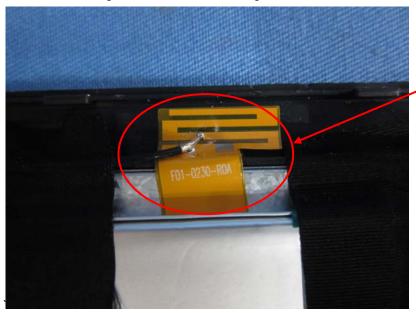
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

#### E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 2.0dBi



**RF ANT** 

Global United Technology Services Co., Ltd.

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Shenzhen, China 518102



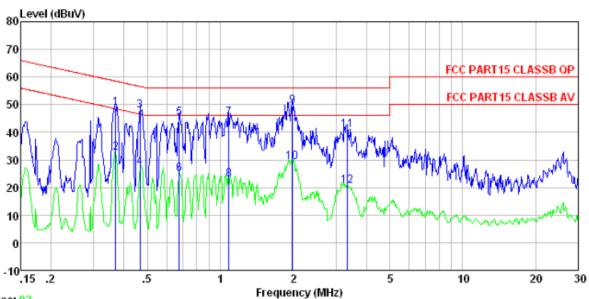
#### 7.2 Conducted Emissions

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:	Frequency range (MHz)  Limit (dBuV)  Quasi-peak  Average						
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
Task askum.	* Decreases with the logarithm	of the frequency.					
Test setup:	Reference Plane		_				
Test presedure:	AUX Equipment E.U.T EMI Receiver  Remark E.U.T Equipment Under Test LISN Filter AC power  Remark E.U.T. Equipment Under Test LISN Filter AC power  Receiver						
Test procedure:	<ol> <li>The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impe</li> </ol>	n network (L.I.S.N.). Th	nis provides a				
	<ol><li>The peripheral devices are LISN that provides a 50ohn termination. (Please refer to photographs).</li></ol>	n/50uH coupling imped	dance with 50ohm				
	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						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						



#### Measurement data

Line:



Trace: 92

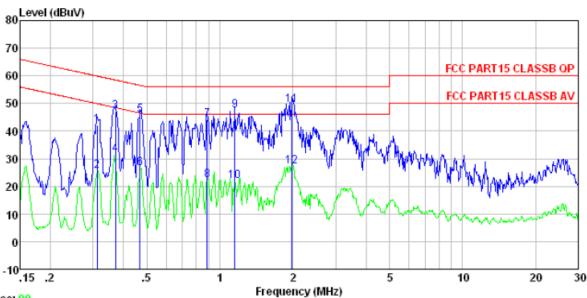
Condition : FCC PART15 CLASSB QP LISN-2012 LINE

Job. No : 01120RF Test mode : WiFi Mode Test Engineer: Ying

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	dB	dBu₹	dBu₹	dB	
1	0.369	48.75	-0.22	0.10	48.63	58.52	-9.89	QP
2 3	0.369	32.51	-0.22	0.10	32.39	48.52	-16.13	Average
3	0.466	47.95	-0.21	0.10	47.84	56.58	-8.74	QP
4	0.466	27.18	-0.21	0.10	27.07	46.58	-19.51	Average
4 5 6 7	0.675	45.13	-0.20	0.10	45.03		-10.97	
6	0.675	25.02	-0.20	0.10	24.92	46.00	-21.08	Average
7	1.082	45.12	-0.21	0.10	45.01	56.00	-10.99	QP
8 9	1.082	22.87	-0.21	0.10	22.76	46.00	-23.24	Average
	1.980	49.75	-0.24	0.10	49.61		-6.39	
10	1.980	29.35		0.10	29.21	46.00	-16.79	Average
11	3.328	40.81	-0.26	0.10	40.65		-15.35	
12	3, 328	20, 85	-0.26	0.10	20.69	46, 00	-25.31	Average



#### Neutral:



Trace: 90

Condition : FCC PART15 CLASSB QP LISN-2012 NEUTRAL

Job. No : 01120RF Test mode : WiFi Mode Test Engineer: Ying

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
,	MHz	dBu₹	<u>dB</u>	₫B	dBuV	dBuV	dB	
1 2 3 4 5 6 7 8 9	0. 312 0. 312 0. 371 0. 371 0. 469 0. 469 0. 885 0. 885	42. 24 25. 68 47. 07 31. 57 45. 62 26. 65 43. 98 22. 29 47. 30	-0. 09 -0. 09 -0. 08 -0. 08 -0. 08 -0. 09 -0. 09 -0. 09	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	42. 25 25. 69 47. 09 31. 59 45. 64 26. 67 43. 99 22. 30 47. 31	49. 93 58. 47 48. 47 56. 54 46. 54 56. 00 46. 00 56. 00	-11. 38 -16. 88 -10. 90 -19. 87 -12. 01 -23. 70 -8. 69	Average QP Average QP Average QP Average QP
10 11 12	1.153 1.980 1.980	21.72 49.54 27.15	-0. 09 -0. 11 -0. 11	0.10 0.10 0.10	21.73 49.53 27.14	56.00	-6.47	Average QP Average

#### 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

Took Dominoranti	ECO De 1145 O Continue 45 047 (b)(0)		
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	30dBm		
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		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	18.65	14.57	14.20	14.28		Pass
Middle	18.43	14.44	14.02	14.23	30.00	
Highest	18.27	13.99	13.81	14.38		

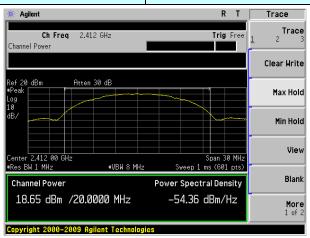
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



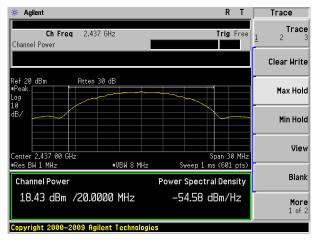
Project No.: GTSE131201923RF

#### Test plot as follows:

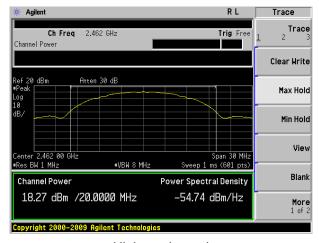
Test mode: 802.11b



#### Lowest channel



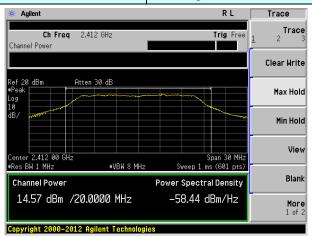
#### Middle channel



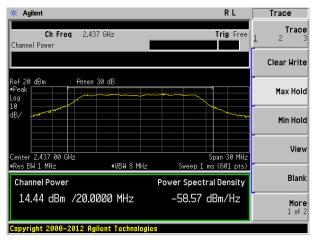
Highest channel



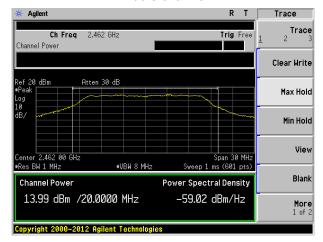
Test mode: 802.11g



#### Lowest channel



#### Middle channel



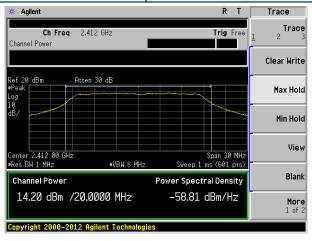
Highest channel

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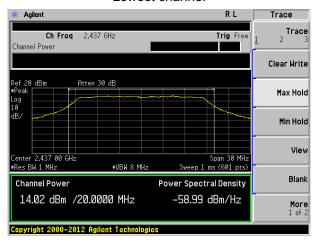


Project No.: GTSE131201923RF

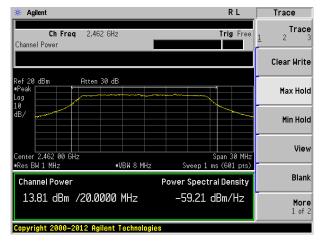
Test mode: 802.11n(HT20)



#### Lowest channel



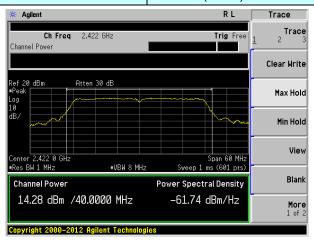
#### Middle channel



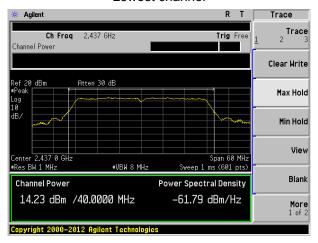
Highest channel



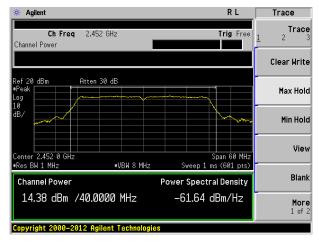
Test mode: 802.11n(HT40)



#### Lowest channel



#### Middle channel



Highest channel

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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		

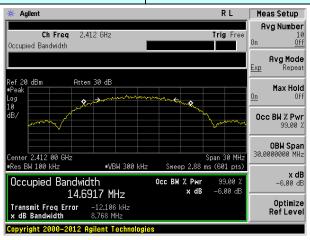
#### **Measurement Data**

Test CH		Channel Ban	Limit(KHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littit(Ki iz)	Result
Lowest	8.768	16.537	17.800	36.464		Pass
Middle	8.765	16.555	17.783	36.475	>500	
Highest	8.766	16.538	17.794	36.460		

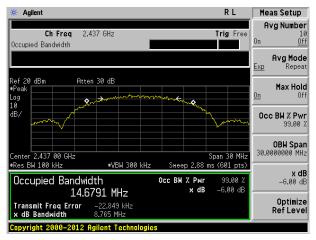
#### Test plot as follows:



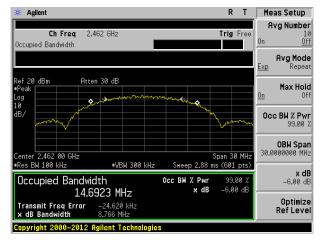
Test mode: 802.11b



#### Lowest channel



#### Middle channel

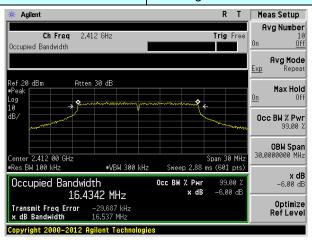


Highest channel

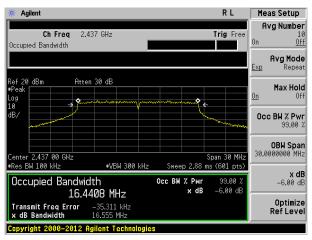
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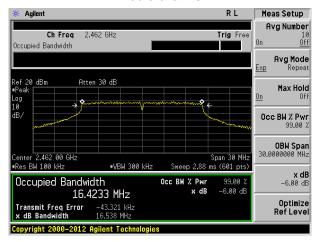
Test mode: 802.11g



#### Lowest channel



#### Middle channel

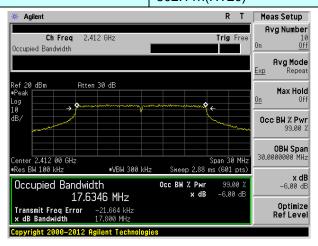


Highest channel

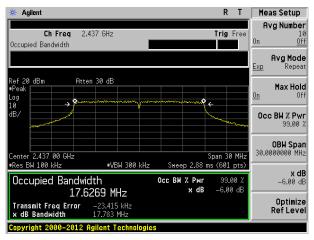
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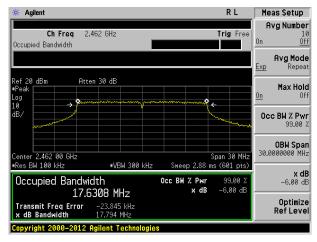
Test mode: 802.11n(HT20)



#### Lowest channel



#### Middle channel

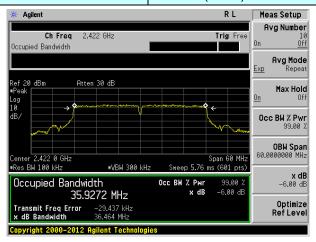


Highest channel

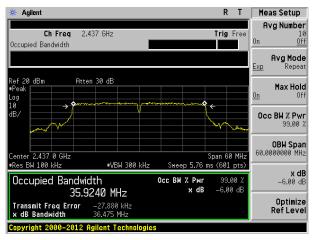
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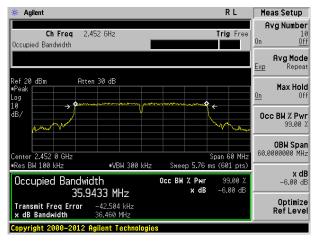
Test mode: 802.11n(HT40)



#### 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**

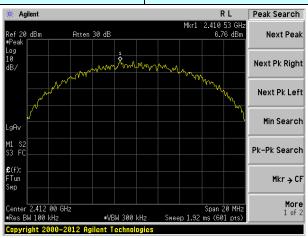
Test CH		Power Spectra	Limit(dBm/3kHz)	Result		
rest Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBm/3Km2)	Result
Lowest	6.76	-1.51	-1.87	-4.78		Pass
Middle	6.41	-1.66	-2.12	-4.97	8.00	
Highest	6.02	-1.88	-2.47	-5.13		

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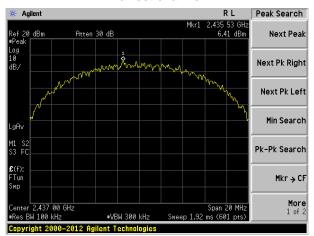


#### Test plot as follows:

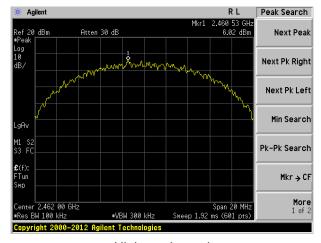
Test mode: 802.11b



#### Lowest channel



#### Middle channel



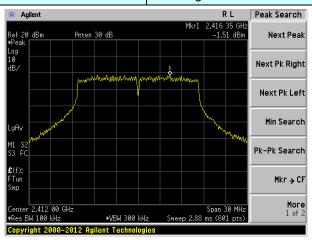
Highest channel

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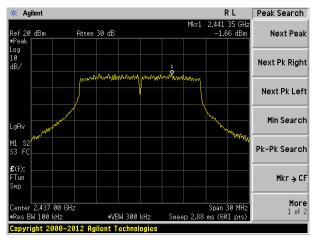
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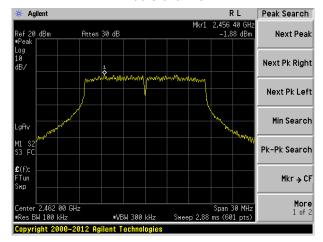
Test mode: 802.11g



#### Lowest channel



#### Middle channel

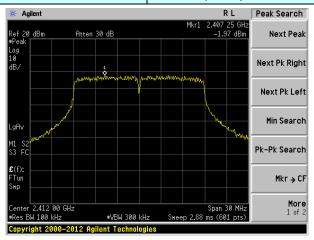


Highest channel

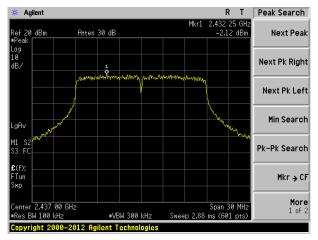
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



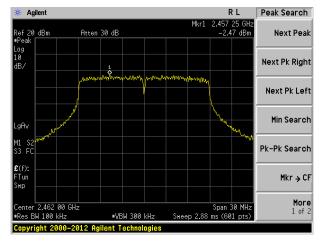
Test mode: 802.11n(HT20)



#### Lowest channel



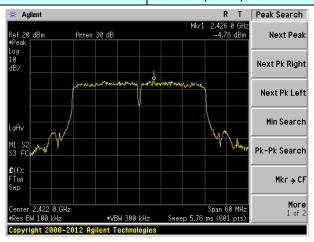
#### Middle channel



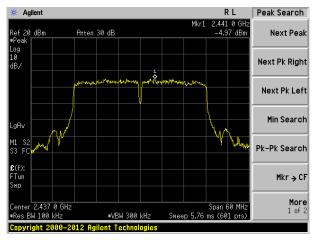
Highest channel



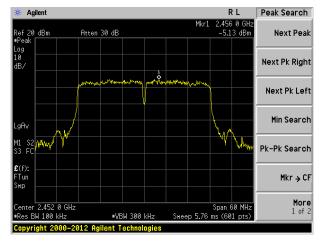
Test mode: 802.11n(HT40)



#### Lowest channel



#### Middle channel



Highest channel



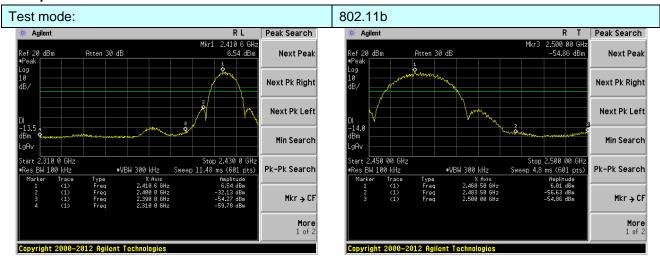
# 7.6 Band edges

#### 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				

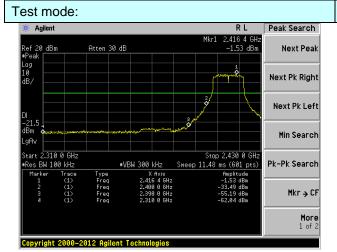


#### Test plot as follows:

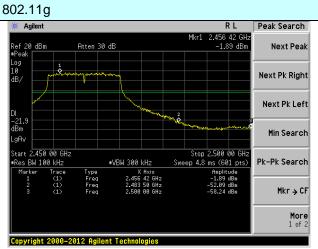


Lowest channel

Highest channel



Lowest channel



Highest channel

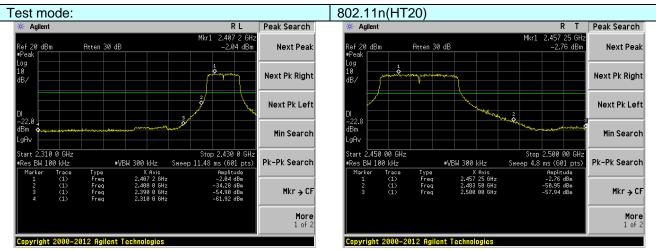
Shenzhen, China 518102

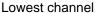
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Project No.: GTSE131201923RF

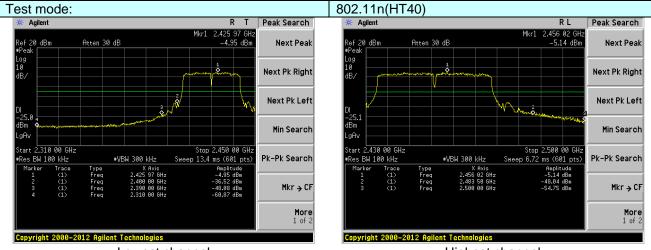
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Highest channel



Lowest channel

Highest channel

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#### 7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205					
Test Method:	ANSI C63.4: 20	ANSI C63.4: 2003						
Test Frequency Range:	All of the restrict 2500MHz) data		tested, only	the worst b	and's (2310MHz to			
Test site:	Measurement D							
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
·		Peak	1MHz	3MHz	Peak			
	Above 1GHz	Peak	1MHz	10Hz	Average			
Limit:	Freque		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  Amplifier							
Test Procedure:	<ol> <li>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.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenn tower.</li> <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 a measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst call and then the antenna was tuned to heights from 1 meter to 4 meters and the rotal table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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 value 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.</li> <li>The radiation measurements are performed in X, Y, Z axis positioning And found the X axis positioning which it is worse case, only the testing the position of the stopped and the peak peak or average method as specified and then reported in a data sheet.</li> </ol>							
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	45.39	27.59	5.38	30.18	48.18	74.00	-25.82	Horizontal
2400.00	62.48	27.58	5.39	30.18	65.27	74.00	-8.73	Horizontal
2390.00	46.89	27.59	5.38	30.18	49.68	74.00	-24.32	Vertical
2400.00	64.54	27.58	5.39	30.18	67.33	74.00	-6.67	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	32.81	27.59	5.38	30.18	35.60	54.00	-18.40	Horizontal
2400.00	44.77	27.58	5.39	30.18	47.56	54.00	-6.44	Horizontal
2390.00	34.40	27.59	5.38	30.18	37.19	54.00	-16.81	Vertical
2400.00	46.51	27.58	5.39	30.18	49.30	54.00	-4.70	Vertical

Test mode: 802.11b	Test channel:	Highest
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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
2483.50	44.91	27.53	5.47	29.93	47.98	74.00	-26.02	Horizontal
2500.00	41.45	27.55	5.49	29.93	44.56	74.00	-29.44	Horizontal
2483.50	46.66	27.53	5.47	29.93	49.73	74.00	-24.27	Vertical
2500.00	43.44	27.55	5.49	29.93	46.55	74.00	-27.45	Vertical

#### Average value:

7.101.490 14.140.								
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	32.75	27.53	5.47	29.93	35.82	54.00	-18.18	Horizontal
2500.00	29.23	27.55	5.49	29.93	32.34	54.00	-21.66	Horizontal
2483.50	34.46	27.53	5.47	29.93	37.53	54.00	-16.47	Vertical
2500.00	31.01	27.55	5.49	29.93	34.12	54.00	-19.88	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.: GTSE131201923RF

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Report No.: GTSE13120192301

Test mode:		802.1	1g	Т	est 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
2390.00	56.76	27.59	5.38	30.18	59.55	74.00	-14.45	Horizontal
2400.00	64.55	27.58	5.39	30.18	67.34	74.00	-6.66	Horizontal
2390.00	58.46	27.59	5.38	30.18	61.25	74.00	-12.75	Vertical
2400.00	66.55	27.58	5.39	30.18	69.34	74.00	-4.66	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	37.58	27.59	5.38	30.18	40.37	54.00	-13.63	Horizontal
2400.00	44.02	27.58	5.39	30.18	46.81	54.00	-7.19	Horizontal
2390.00	39.27	27.59	5.38	30.18	42.06	54.00	-11.94	Vertical
2400.00	45.80	27.58	5.39	30.18	48.59	54.00	-5.41	Vertical
Test mode:		802.1	1g	Т	est 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	62.03	27.53	5.47	29.93	65.10	74.00	-8.90	Horizontal
2500.00	43.51	27.55	5.49	29.93	46.62	74.00	-27.38	Horizontal
2483.50	63.78	27.53	5.47	29.93	66.85	74.00	-7.15	Vertical
2500.00	45.50	27.55	5.49	29.93	48.61	74.00	-25.39	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	36.15	27.53	5.47	29.93	39.22	54.00	-14.78	Horizontal
2500.00	29.76	27.55	5.49	29.93	32.87	54.00	-21.13	Horizontal
2483.50	37.86	27.53	5.47	29.93	40.93	54.00	-13.07	Vertical
2500.00	31.54	27.55	5.49	29.93	34.65	54.00	-19.35	Vertical
Remark: 1. Final L	.evel =Recei	ver Read lev	rel + Antenr	na Factor -	+ Cable Loss -	- Preamplifi	er Factor	

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



Test mode:

Report No.: GTSE13120192301

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
2390.00	58.11	27.59	5.38	30.18	60.90	74.00	-13.10	Horizontal
2400.00	64.82	27.58	5.39	30.18	67.61	74.00	-6.39	Horizontal
2390.00	59.81	27.59	5.38	30.18	62.60	74.00	-11.40	Vertical
2400.00	66.82	27.58	5.39	30.18	69.61	74.00	-4.39	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	36.81	27.59	5.38	30.18	39.60	54.00	-14.40	Horizontal
2400.00	42.42	27.58	5.39	30.18	45.21	54.00	-8.79	Horizontal
2390.00	38.50	27.59	5.38	30.18	41.29	54.00	-12.71	Vertical
2400.00	44.20	27.58	5.39	30.18	46.99	54.00	-7.01	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	F	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	58.14	27.53	5.47	29.93	61.21	74.00	-12.79	Horizontal
2500.00	45.28	27.55	5.49	29.93	48.39	74.00	-25.61	Horizontal
2483.50	59.89	27.53	5.47	29.93	62.96	74.00	-11.04	Vertical
2500.00	47.27	27.55	5.49	29.93	50.38	74.00	-23.62	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	35.60	27.53	5.47	29.93	38.67	54.00	-15.33	Horizontal
2500.00	29.42	27.55	5.49	29.93	32.53	54.00	-21.47	Horizontal
2483.50	37.31	27.53	5.47	29.93	40.38	54.00	-13.62	Vertical
2500.00	31.20	27.55	5.49	29.93	34.31	54.00	-19.69	Vertical
Remark:		ver Read lev						

Test channel:

802.11n(HT20)

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Shenzhen, China 518102

<sup>1.</sup> 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 mode:

Report No.: GTSE13120192301

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
2390.00	61.49	27.59	5.38	30.18	64.28	74.00	-9.72	Horizontal
2400.00	64.52	27.58	5.39	30.18	67.31	74.00	-6.69	Horizontal
2390.00	63.19	27.59	5.38	30.18	65.98	74.00	-8.02	Vertical
2400.00	66.52	27.58	5.39	30.18	69.31	74.00	-4.69	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	38.69	27.59	5.38	30.18	41.48	54.00	-12.52	Horizontal
2400.00	40.27	27.58	5.39	30.18	43.06	54.00	-10.94	Horizontal
2390.00	40.38	27.59	5.38	30.18	43.17	54.00	-10.83	Vertical
2400.00	42.05	27.58	5.39	30.18	44.84	54.00	-9.16	Vertical
Test mode:		802.1	1n(HT40)	Tes	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	63.11	27.53	5.47	00.00				
2500.00			5.	29.93	66.18	74.00	-7.82	Horizontal
2500.00	52.07	27.55	5.49	29.93 29.93	66.18 55.18	74.00 74.00	-7.82 -18.82	Horizontal Horizontal
2483.50								
	52.07	27.55	5.49	29.93	55.18	74.00	-18.82	Horizontal
2483.50	52.07 64.86 54.06	27.55 27.53	5.49 5.47	29.93 29.93	55.18 67.93	74.00 74.00	-18.82 -6.07	Horizontal Vertical
2483.50 2500.00	52.07 64.86 54.06	27.55 27.53	5.49 5.47	29.93 29.93	55.18 67.93	74.00 74.00	-18.82 -6.07	Horizontal Vertical
2483.50 2500.00 <b>Average va</b> Frequency	52.07 64.86 54.06 Ilue: Read Level	27.55 27.53 27.55 Antenna Factor	5.49 5.47 5.49 Cable Loss	29.93 29.93 29.93 Preamp Factor	55.18 67.93 57.17 Level	74.00 74.00 74.00 Limit Line	-18.82 -6.07 -16.83 Over Limit	Horizontal Vertical Vertical
2483.50 2500.00 Average va Frequency (MHz)	52.07 64.86 54.06 Ilue: Read Level (dBuV)	27.55 27.53 27.55 Antenna Factor (dB/m)	5.49 5.47 5.49 Cable Loss (dB)	29.93 29.93 29.93 Preamp Factor (dB)	55.18 67.93 57.17 Level (dBuV/m)	74.00 74.00 74.00 Limit Line (dBuV/m)	-18.82 -6.07 -16.83 Over Limit (dB)	Horizontal Vertical Vertical Polarization
2483.50 2500.00 <b>Average va</b> Frequency (MHz) 2483.50	52.07 64.86 54.06 Ilue: Read Level (dBuV) 37.14	27.55 27.53 27.55 Antenna Factor (dB/m) 27.53	5.49 5.47 5.49 Cable Loss (dB) 5.47	29.93 29.93 29.93 Preamp Factor (dB) 29.93	55.18 67.93 57.17 Level (dBuV/m) 40.21	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-18.82 -6.07 -16.83 Over Limit (dB) -13.79	Horizontal Vertical Vertical Polarization Horizontal
2483.50 2500.00 Average va Frequency (MHz) 2483.50 2500.00	52.07 64.86 54.06 Ilue: Read Level (dBuV) 37.14 32.21	27.55 27.53 27.55 Antenna Factor (dB/m) 27.53 27.55	5.49 5.47 5.49 Cable Loss (dB) 5.47 5.49	29.93 29.93 29.93 Preamp Factor (dB) 29.93	55.18 67.93 57.17 Level (dBuV/m) 40.21 35.32	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-18.82 -6.07 -16.83 Over Limit (dB) -13.79 -18.68	Horizontal Vertical Vertical Polarization Horizontal Horizontal

Test channel:

802.11n(HT40)

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

1.



# 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				

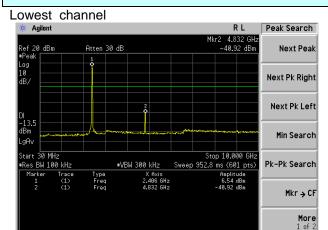
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



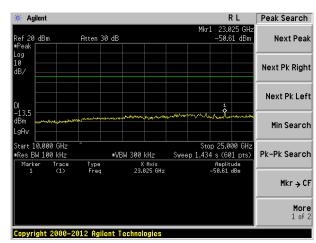
## Test plot as follows:

## Test mode:

## 802.11b



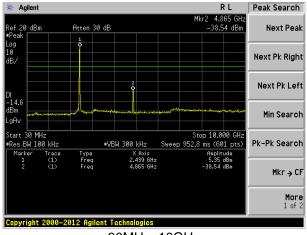
30MHz~10GHz



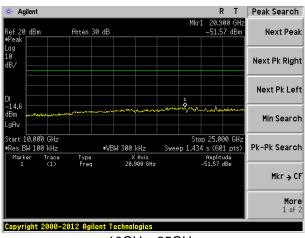
10GHz~25GHz

#### Middle channel

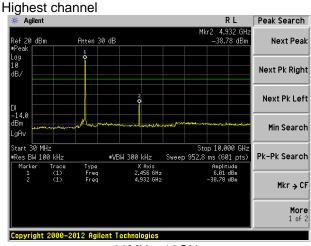
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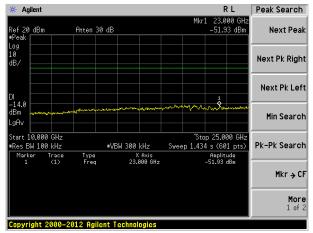
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



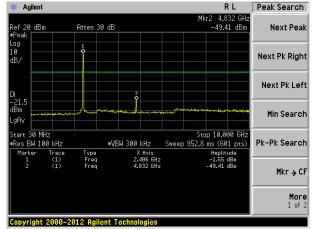
10GHz~25GHz



#### Test mode:

## 802.11g

## Lowest channel



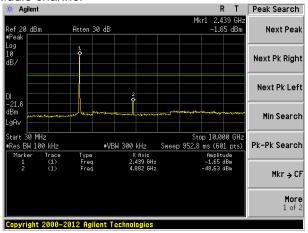
30MHz~10GHz

## 

10GHz~25GHz

#### Middle channel

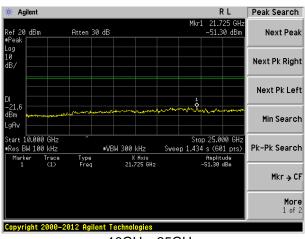
Highest channel



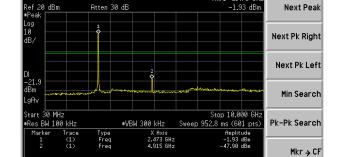
30MHz~10GHz

Peak Search

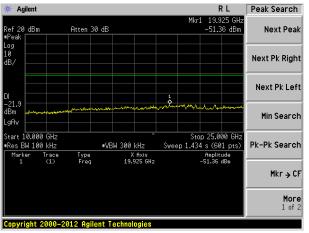
More 1 of 2



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

Shenzhen, China 518102



R L

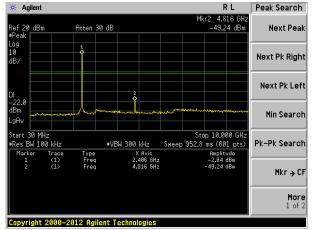
Peak Search

#### Test mode:

## 802.11n(HT20)

Agilent

#### Lowest channel

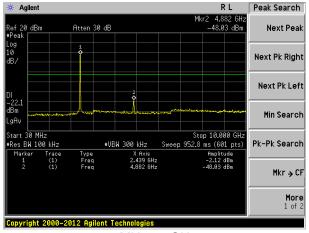


30MHz~10GHz

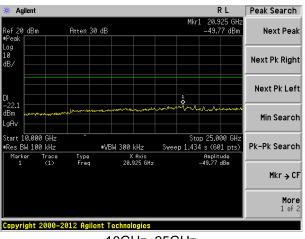
# 

10GHz~25GHz

## Middle channel

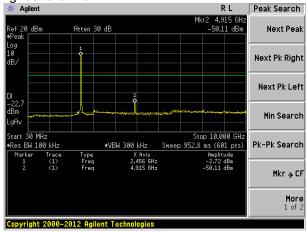


30MHz~10GHz

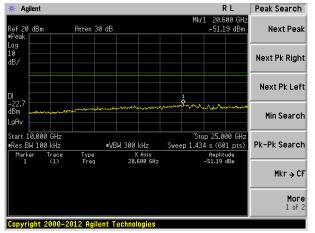


10GHz~25GHz





30MHz~10GHz



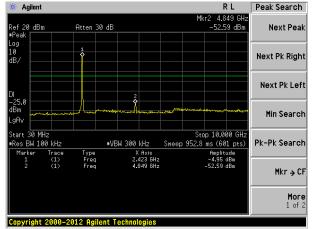
10GHz~25GHz



#### Test mode:

## 802.11n(HT40)

#### Lowest channel

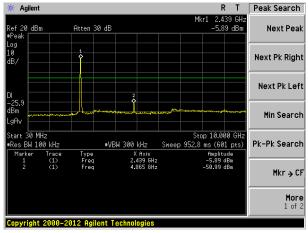


30MHz~10GHz

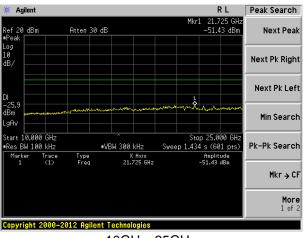
#### Peak Search Atten 30 dB Next Peak Ref 20 dBm Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz #VBW 300 kHz Pk-Pk Search Res BW 100 kHz Type Freq X Axis 21.725 GHz Amplitude -50.11 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

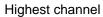
## Middle channel

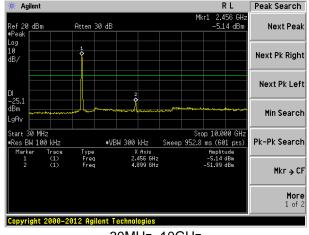


30MHz~10GHz

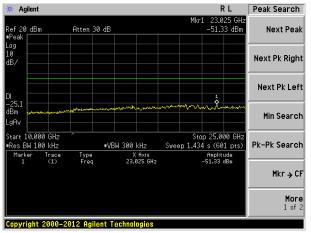


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



## 7.7.2 Radiated Emission Method

Test Method:	ANSI C63 4: 200		FCC Part15 C Section 15.209								
	ANSI C03.4. 200	3									
Test Frequency Range:	30MHz to 25GHz	ANSI C63.4: 2003 30MHz to 25GHz									
Test site:	Measurement Dis	Measurement Distance: 3m									
Receiver setup:	Frequency										
	30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz									
	Above 1CHz	30MHz-1GHz         Quasi-peak         120KHz         300KHz           Above 1GHz         Peak         1MHz         3MHz           Peak         1MHz         10Hz									
	Above 1GHz	Above 1GHz									
Limit:	Frequen	cy L	_imit (dBuV	/m @3m)	Value						
	30MHz-88	MHz	40.0	0	Quasi-peak						
	88MHz-216	88MHz-216MHz 43.50 Quasi-peak									
	216MHz-96	216MHz-960MHz 46.00 Quasi-peak									
	960MHz-1	960MHz-1GHz 54.00 Quasi-peak									
	Above 10	54 00 Average									
	Above 10	Above 1GHz 74.00 Peak									
	Tum 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8	Above 1GHz  Antenna Tower  Horn Antenna									

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



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.
	2. 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 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 X-axis which it is worse case.



## **Measurement Data**

## ■ Below 1GHz

	OTIL							
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
33.10	49.89	14.31	0.59	32.06	32.73	40.00	-7.27	Vertical
41.13	47.11	15.57	0.67	32.05	31.30	40.00	-8.70	Vertical
55.42	45.95	14.98	0.82	31.95	29.80	40.00	-10.20	Vertical
94.10	47.56	14.67	1.14	31.74	31.63	43.50	-11.87	Vertical
120.28	53.02	12.38	1.36	31.86	34.90	43.50	-8.60	Vertical
360.45	45.72	16.43	2.67	32.00	32.82	46.00	-13.18	Vertical
58.41	41.35	14.80	0.85	31.94	25.06	40.00	-14.94	Horizontal
93.11	43.77	14.50	1.14	31.73	27.68	43.50	-15.82	Horizontal
108.65	44.92	14.39	1.27	31.80	28.78	43.50	-14.72	Horizontal
154.28	44.58	10.45	1.59	32.00	24.62	43.50	-18.88	Horizontal
233.35	43.58	13.78	2.04	32.16	27.24	46.00	-18.76	Horizontal
360.45	43.49	16.43	2.67	32.00	30.59	46.00	-15.41	Horizontal

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## ■ Above 1GHz

Test mode:		802.11b		Test	channel:	L	owest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Liı (dBuV/r	I I imit	polarization
4824.00	39.01	31.79	8.62	32.10	47.32	74.00	-26.68	Vertical
7236.00	32.81	36.19	11.68	31.97	48.71	74.00	-25.29	Vertical
9648.00	32.58	38.07	14.16	31.56	53.25	74.00	-20.75	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.01	31.79	8.62	32.10	46.32	74.00	-27.68	Horizontal
7236.00	32.37	36.19	11.68	31.97	48.27	74.00	-25.73	Horizontal
9648.00	31.66	38.07	14.16	31.56	52.33	74.00	-21.67	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Liı (dBuV/r	I I imit	polarization
4824.00	26.88	31.79	8.62	32.10	35.19	54.00	-18.81	Vertical
7236.00	20.82	36.19	11.68	31.97	36.72	54.00	-17.28	Vertical
9648.00	20.86	38.07	14.16	31.56	41.53	54.00	-12.47	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	25.97	31.79	8.62	32.10	34.28	54.00	-19.72	Horizontal
7236.00	20.16	36.19	11.68	31.97	36.06	54.00	-17.94	Horizontal
9648.00	19.64	38.07	14.16	31.56	40.31	54.00	-13.69	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal

## Remark:

16884.00

Project No.: GTSE131201923RF

Horizontal

54.00

<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		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	39.36	31.85	8.66	32.12	47.75	74.00	-26.25	Vertical
7311.00	33.93	36.37	11.71	31.91	50.10	74.00	-23.90	Vertical
9748.00	32.68	38.27	14.25	31.56	53.64	74.00	-20.36	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.62	31.85	8.66	32.12	48.01	74.00	-25.99	Horizontal
7311.00	32.38	36.37	11.71	31.91	48.55	74.00	-25.45	Horizontal
9748.00	32.12	38.27	14.25	31.56	53.08	74.00	-20.92	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	28.31	31.85	8.66	32.12	36.70	54.00	-17.30	Vertical
7311.00	20.74	36.37	11.71	31.91	36.91	54.00	-17.09	Vertical
9748.00	21.07	38.27	14.25	31.56	42.03	54.00	-11.97	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	27.93	31.85	8.66	32.12	36.32	54.00	-17.68	Horizontal
7311.00	19.98	36.37	11.71	31.91	36.15	54.00	-17.85	Horizontal
9748.00	21.20	38.27	14.25	31.56	42.16	54.00	-11.84	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		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	42.62	31.90	8.70	32.15	51.07	74.00	-22.93	Vertical
7386.00	33.17	36.49	11.76	31.83	49.59	74.00	-24.41	Vertical
9848.00	34.95	38.62	14.31	31.77	56.11	74.00	-17.89	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.06	31.90	8.70	32.15	50.51	74.00	-23.49	Horizontal
7386.00	32.06	36.49	11.76	31.83	48.48	74.00	-25.52	Horizontal
9848.00	30.75	38.62	14.31	31.77	51.91	74.00	-22.09	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	31.81	31.90	8.70	32.15	40.26	54.00	-13.74	Vertical
7386.00	21.63	36.49	11.76	31.83	38.05	54.00	-15.95	Vertical
9848.00	22.63	38.62	14.31	31.77	43.79	54.00	-10.21	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	30.74	31.90	8.70	32.15	39.19	54.00	-14.81	Horizontal
7386.00	20.00	36.49	11.76	31.83	36.42	54.00	-17.58	Horizontal
9848.00	19.41	38.62	14.31	31.77	40.57	54.00	-13.43	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		Tes	t 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	39.62	31.79	8.62	32.10	47.93	74.00	-26.07	Vertical
7236.00	33.39	36.19	11.68	31.97	49.29	74.00	-24.71	Vertical
9648.00	33.26	38.07	14.16	31.56	53.93	74.00	-20.07	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.56	31.79	8.62	32.10	46.87	74.00	-27.13	Horizontal
7236.00	33.01	36.19	11.68	31.97	48.91	74.00	-25.09	Horizontal
9648.00	32.25	38.07	14.16	31.56	52.92	74.00	-21.08	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					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
4824.00	27.42	31.79	8.62	32.10	35.73	54.00	-18.27	Vertical
7236.00	21.31	36.19	11.68	31.97	37.21	54.00	-16.79	Vertical
9648.00	21.47	38.07	14.16	31.56	42.14	54.00	-11.86	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	26.59	31.79	8.62	32.10	34.90	54.00	-19.10	Horizontal
7236.00	20.71	36.19	11.68	31.97	36.61	54.00	-17.39	Horizontal
9648.00	20.27	38.07	14.16	31.56	40.94	54.00	-13.06	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		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	39.90	31.85	8.66	32.12	48.29	74.00	-25.71	Vertical
7311.00	34.42	36.37	11.71	31.91	50.59	74.00	-23.41	Vertical
9748.00	33.29	38.27	14.25	31.56	54.25	74.00	-19.75	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.24	31.85	8.66	32.12	48.63	74.00	-25.37	Horizontal
7311.00	32.93	36.37	11.71	31.91	49.10	74.00	-24.90	Horizontal
9748.00	32.75	38.27	14.25	31.56	53.71	74.00	-20.29	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	28.92	31.85	8.66	32.12	37.31	54.00	-16.69	Vertical
7311.00	21.32	36.37	11.71	31.91	37.49	54.00	-16.51	Vertical
9748.00	21.75	38.27	14.25	31.56	42.71	54.00	-11.29	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.48	31.85	8.66	32.12	36.87	54.00	-17.13	Horizontal
7311.00	20.62	36.37	11.71	31.91	36.79	54.00	-17.21	Horizontal
9748.00	21.79	38.27	14.25	31.56	42.75	54.00	-11.25	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	43.04	31.90	8.70	32.15	51.49	74.00	-22.51	Vertical
7386.00	33.76	36.49	11.76	31.83	50.18	74.00	-23.82	Vertical
9848.00	35.43	38.62	14.31	31.77	56.59	74.00	-17.41	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.52	31.90	8.70	32.15	50.97	74.00	-23.03	Horizontal
7386.00	32.67	36.49	11.76	31.83	49.09	74.00	-24.91	Horizontal
9848.00	31.28	38.62	14.31	31.77	52.44	74.00	-21.56	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	32.32	31.90	8.70	32.15	40.77	54.00	-13.23	Vertical
7386.00	22.20	36.49	11.76	31.83	38.62	54.00	-15.38	Vertical
9848.00	23.12	38.62	14.31	31.77	44.28	54.00	-9.72	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	31.22	31.90	8.70	32.15	39.67	54.00	-14.33	Horizontal
7386.00	20.56	36.49	11.76	31.83	36.98	54.00	-17.02	Horizontal
9848.00	19.88	38.62	14.31	31.77	41.04	54.00	-12.96	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	39.52	31.79	8.62	32.10	47.83	74.00	-26.17	Vertical
7236.00	33.38	36.19	11.68	31.97	49.28	74.00	-24.72	Vertical
9648.00	33.07	38.07	14.16	31.56	53.74	74.00	-20.26	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.49	31.79	8.62	32.10	46.80	74.00	-27.20	Horizontal
7236.00	32.93	36.19	11.68	31.97	48.83	74.00	-25.17	Horizontal
9648.00	32.13	38.07	14.16	31.56	52.80	74.00	-21.20	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	27.30	31.79	8.62	32.10	35.61	54.00	-18.39	Vertical
7236.00	21.41	36.19	11.68	31.97	37.31	54.00	-16.69	Vertical
9648.00	21.34	38.07	14.16	31.56	42.01	54.00	-11.99	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.43	31.79	8.62	32.10	34.74	54.00	-19.26	Horizontal
7236.00	20.77	36.19	11.68	31.97	36.67	54.00	-17.33	Horizontal
9648.00	20.17	38.07	14.16	31.56	40.84	54.00	-13.16	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	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	39.91	31.85	8.66	32.12	48.30	74.00	-25.70	Vertical
7311.00	34.36	36.37	11.71	31.91	50.53	74.00	-23.47	Vertical
9748.00	33.26	38.27	14.25	31.56	54.22	74.00	-19.78	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.08	31.85	8.66	32.12	48.47	74.00	-25.53	Horizontal
7311.00	32.87	36.37	11.71	31.91	49.04	74.00	-24.96	Horizontal
9748.00	32.65	38.27	14.25	31.56	53.61	74.00	-20.39	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	28.82	31.85	8.66	32.12	37.21	54.00	-16.79	Vertical
7311.00	21.21	36.37	11.71	31.91	37.38	54.00	-16.62	Vertical
9748.00	21.61	38.27	14.25	31.56	42.57	54.00	-11.43	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.41	31.85	8.66	32.12	36.80	54.00	-17.20	Horizontal
7311.00	20.58	36.37	11.71	31.91	36.75	54.00	-17.25	Horizontal
9748.00	21.75	38.27	14.25	31.56	42.71	54.00	-11.29	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(H	IT20)	Test	channel:	Highe	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	43.13	31.90	8.70	32.15	51.58	74.00	-22.42	4924.00
7386.00	33.64	36.49	11.76	31.83	50.06	74.00	-23.94	7386.00
9848.00	35.49	38.62	14.31	31.77	56.65	74.00	-17.35	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.54	31.90	8.70	32.15	50.99	74.00	-23.01	Horizontal
7386.00	32.66	36.49	11.76	31.83	49.08	74.00	-24.92	Horizontal
9848.00	31.30	38.62	14.31	31.77	52.46	74.00	-21.54	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	32.36	31.90	8.70	32.15	40.81	54.00	-13.19	Vertical
7386.00	22.06	36.49	11.76	31.83	38.48	54.00	-15.52	Vertical
9848.00	23.21	38.62	14.31	31.77	44.37	54.00	-9.63	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	31.20	31.90	8.70	32.15	39.65	54.00	-14.35	Horizontal
7386.00	20.49	36.49	11.76	31.83	36.91	54.00	-17.09	Horizontal
9848.00	19.94	38.62	14.31	31.77	41.10	54.00	-12.90	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(HT40)			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
4844.00	39.36	31.81	8.63	32.11		47.69	74.00		-26.31	Vertical
7266.00	33.22	36.28	11.69	31.94		49.25	74.00		-24.75	Vertical
9688.00	33.04	38.13	14.21	31.52		53.86	74.00		-20.14	Vertical
12060.00	*						74.00			Vertical
14472.00	*						74.00			Vertical
16884.00	*						74.	00		Vertical
4844.00	38.42	31.81	8.63	32.11		46.75	74.00		-27.25	Horizontal
7266.00	32.74	36.28	11.69	31.94		48.77	74.00		-25.23	Horizontal
9688.00	32.13	38.13	14.21	31.52		52.95	74.00		-21.05	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.00			Horizontal
16884.00	*						74.	00		Horizontal

## Average value:

5								
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
4844.00	27.28	31.81	8.63	32.11	35.61	54.00	-18.39	Vertical
7266.00	21.20	36.28	11.69	31.94	37.23	54.00	-16.77	Vertical
9688.00	21.32	38.13	14.21	31.52	42.14	54.00 -11.8		Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	26.39	31.81	8.63	32.11	34.72	54.00	-19.28	Horizontal
7266.00	20.52	36.28	11.69	31.94	36.55	54.00	-17.45	Horizontal
9688.00	20.09	38.13	14.21	31.52	40.91	54.00	-13.09	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.



Test mode:		802.11n(H	IT40)		Test	channel:	Middle			
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	39.76	31.85	8.66	32.12		48.15	74.00		-25.85	Vertical
7311.00	34.31	36.37	11.71	31.91		50.48	74.00		-23.52	Vertical
9748.00	33.14	38.27	14.25	31.56		54.10	74.00		-19.90	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	40.04	31.85	8.66	32.12		48.43	74.00		-25.57	Horizontal
7311.00	32.74	36.37	11.71	31	.91	48.91	74.00		-25.09	Horizontal
9748.00	32.57	38.27	14.25	31.56		53.53	74.00		-20.47	Horizontal
12185.00	*						74.00			Horizontal
14622.00	*						74.00			Horizontal
17059.00	*						74.0	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
4874.00	28.66	31.85	8.66	32.12		37.05	54.00		-16.95	Vertical
7311.00	21.15	36.37	11.71	31	.91	37.32	54.00		-16.68	Vertical
9748.00	21.53	38.27	14.25	31	.56	42.49	54.00		-11.51	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	28.34	31.85	8.66	32.12		36.73	54.00		-17.27	Horizontal
7311.00	20.35	36.37	11.71	31.91		36.52	54.00		-17.48	Horizontal
9748.00	21.67	38.27	14.25	31	.56	42.63	54.00		-11.37	Horizontal
12185.00	*						54.0	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*						54.0	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.



Test mode:		802.11n(H	IT40)	Test c		annel:	el: High		est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or 6	Level dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4904.00	43.09	31.88	8.68	32.13		51.52	74.00		-22.48	Vertical
7356.00	33.70	36.45	11.75	31.86		50.04	74.00		-23.96	Vertical
9808.00	35.30	38.43	14.29	31.6	8	56.34	74.00		-17.66	Vertical
12310.00	*						74.00			Vertical
14772.00	*						74.00			Vertical
17234.00	*						74.00			Vertical
4904.00	42.42	31.88	8.68	32.13		50.85	74.00		-23.15	Horizontal
7356.00	32.47	36.45	11.75	31.80	6	48.81	74.00		-25.19	Horizontal
9808.00	31.03	38.43	14.29	31.6	8	52.07	74.00		-21.93	Horizontal
12310.00	*						74.00			Horizontal
14772.00	*						74.00			Horizontal
17234.00	*						74.0	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or (	Level dBuV/m)	Limit I (dBu\		Over Limit (dB)	polarization
4904.00	32.17	31.88	8.68	32.13	3	40.60	54.0	00	-13.40	Vertical
7356.00	22.04	36.45	11.75	31.8	6	38.38	54.0	00	-15.62	Vertical
9808.00	22.91	38.43	14.29	31.6	8	43.95	54.0	00	-10.05	Vertical
12310.00	*						54.0	00		Vertical
14772.00	*						54.0	00		Vertical
17234.00	*						54.0	00		Vertical
4904.00	31.21	31.88	8.68	32.13	3	39.64	54.00		-14.36	Horizontal
7356.00	20.53	36.45	11.75	31.80	6	36.87	54.00		-17.13	Horizontal
9808.00	19.76	38.43	14.29	31.6	8	40.80	54.00		-13.20	Horizontal
12310.00	*	_					54.0	00		Horizontal
14772.00	*						54.0	00		Horizontal
17234.00	*						54.0	00		Horizontal

## Remark:

Shenzhen, China 518102

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

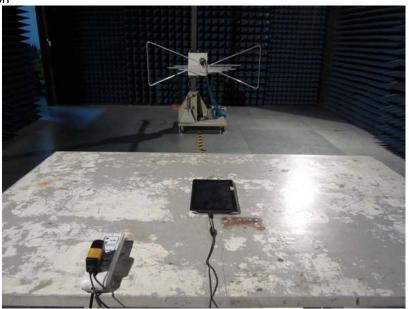
<sup>2 &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.

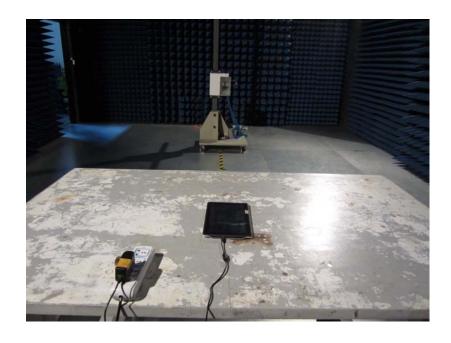


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# 8 Test Setup Photo

Radiated Emission







## Conducted Emission





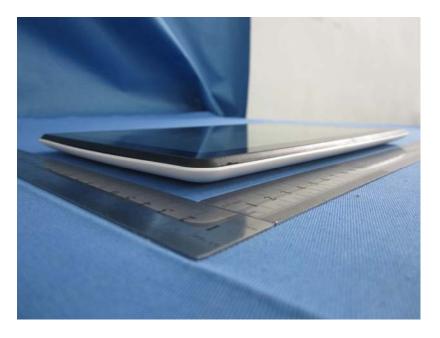
# 9 EUT Constructional Details











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