

Global United Technology Services Co., Ltd.

Report No.: GTSE13030026601

FCC REPORT

Applicant: SHENZHEN VOGUE INDUSTRIES CO., LTD.

Address of Applicant: Bldg. 38, 5th Cuigang Industry Zone, Huaide Village, Fuyong

Town, Bao'an District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: PC7008, PC7008A, PC7008B, PC7518, PC7558, PC7568

FCC ID: V97PC7008

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

Date of sample receipt: March 12, 2013

Date of Test: March 12-25, 2013

Date of report issued: March 25, 2013

Test Result: PASS *

Authorized Signature:



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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of GTS International Electrical Approvals or testing done by GTS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by GTS International Electrical Approvals in writing.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

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



2 Version

Version No.	Date	Description
00	March 25, 2013	Original

Prepared By:	Sam. Gao	Date:	March 25, 2013	
	Project Engineer			
Check By:	Hans. Hu	Date:	March 25, 2013	
	Reviewer			_



3 Contents

			Page
1	COV	/ER PAGE	1
2	VER	RSION	2
3	CON	NTENTS	3
4	TES	T SUMMARY	4
5	GEN	NERAL INFORMATION	5
	5.1	CLIENT INFORMATION	
	5.1 5.2	GENERAL DESCRIPTION OF EUT	5
	5.2	TEST MODE	
	5.4	DESCRIPTION OF SUPPORT UNITS	
	5.5	Test Facility	
	5.6	TEST LOCATION	
6	TES	T INSTRUMENTS LIST	8
7	TES	T RESULTS AND MEASUREMENT DATA	9
	7.1	ANTENNA REQUIREMENT:	9
	7.2	CONDUCTED EMISSIONS	
	7.3	CONDUCTED PEAK OUTPUT POWER	13
	7.4	CHANNEL BANDWIDTH	
	7.5	Power Spectral Density	_
	7.6	BAND EDGES	
	7.6.		
	7.6.2		
	7.7	SPURIOUS EMISSION	
	7.7.1	Corradotos Ermedion Modries	
	7.7.2		
8	TES	T SETUP PHOTO	56
9	FUT	CONSTRUCTIONAL DETAILS	58

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



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.

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



5 General Information

5.1 Client Information

Applicant:	SHENZHEN VOGUE INDUSTRIES CO., LTD.	
Address of Applicant:	Bldg. 38, 5th Cuigang Industry Zone, Huaide Village, Fuyong Town, Bao'an District, Shenzhen, China	
Manufacturer:	SHENZHEN VOGUE INDUSTRIES CO., LTD.	
Address of Manufacturer:	Bldg. 38, 5th Cuigang Industry Zone, Huaide Village, Fuyong Town, Bao'an District, Shenzhen, China	

5.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	PC7008, PC7008A, PC7008B, PC7518, PC7558, PC7568
Remark:	Only the Model No. PC7008 was tested, since the electrical circuit design, PCB layout, Electrical Parts and Figure are identical to the basic model, except the outer decoration.
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 dBi (declare by Applicant)
Power supply:	Adapter:
	Model No.:DSS-012W0502000LG
	Input: 100~240V~50/60Hz 0.2A Max.
	Output: 5.0V 2A
	DC 3.7V Li-ion Battery



Operation Frequency each of channel								
Channel Frequency Channel Frequency Channel Frequency Channel Fre							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:

Toot channel	Frequency (MHz)			
Test channel	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

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



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-1.

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

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



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. 30 2011	Mar. 29 2013		
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. 03 2012	Jul. 02 2013		
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 29 2012	June 28 2013		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2011	Mar. 29 2013		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 31 2012	Mar. 30 2013		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 31 2012	Mar. 30 2013		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 31 2012	Mar. 30 2013		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 31 2012	Mar. 30 2013		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 03 2012	Jul. 02 2013		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 03 2012	Jul. 02 2013		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2012	June 28 2013		
16	Band filter	Amindeon	82346	GTS219	Mar. 31 2012	Mar. 30 2013		

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. 03 2012	Jul. 02 2013		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 03 2012	Jul. 02 2013		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 03 2012	Jul. 02 2013		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 03 2012	Jul. 02 2013		
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 03 2012	Jul. 02 2013		
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 10 2012	July 09 2013		



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 2dBi





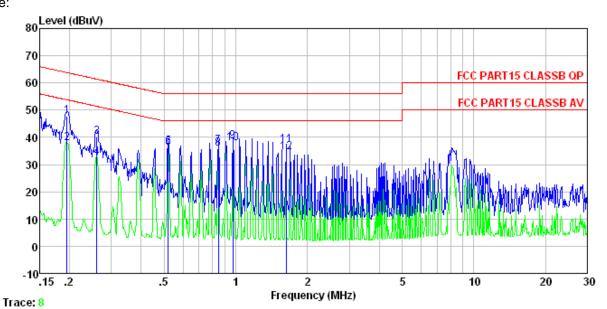
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	,					
Test Method:	ANSI C63.4:2003						
Test Frequency Range:	150KHz to 30MHz	150KHz to 30MHz					
Class / Severity:	Class B	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto					
Limit:		Limit (c	(BuV)				
	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	:					
Test procedure:	AUX Equipment E.U.T EMI Receiver Remark E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m						
	 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. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed 						
Test Instruments:	according to ANSI C63.4: 2003 on conducted measurement. Refer to section 6.0 for details						
Test mode:	Refer to section 5.3 for details						
		•					
Test results:	Pass						



Measurement data

Line:



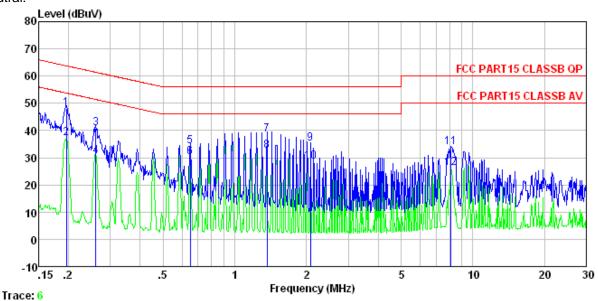
Condition : FCC PART15 CLASSB QP LISN-2012 LINE

Job No. : 266RF Test Mode : WIFI mode Test Engineer: Sam

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu√	dB	dB	dBuV	dBuV	dB	
1	0.195	47.85	-0.23	0.10	47.72	63.80	-16.08	QP
2 3	0.195	37.96	-0.23	0.10	37.83	53.80	-15.97	Average
	0.260	40.12	-0.23	0.10	39.99	61.42	-21.43	QP
4 5	0.260	32.80	-0.23	0.10	32.67	51.42	-18.75	Average
5	0.521	36.64	-0.21	0.10	36.53	56.00	-19.47	QP
6	0.521	36.43	-0.21	0.10	36.32	46.00	-9.68	Average
7	0.844	37.04	-0.20	0.10	36.94	56.00	-19.06	QP
8	0.844	35.95	-0.20	0.10	35.85	46.00	-10.15	Average
9	0.974	38.64	-0.21	0.10	38.53	56.00	-17.47	QP
10	0.974	37.86	-0.21	0.10	37.75	46.00	-8.25	Average
11	1.628	37.12	-0.23	0.10	36.99	56.00	-19.01	QP
12	1.628	34.59	-0.23	0.10	34, 46	46.00	-11.54	Average



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2012 NEUTRAL

Job No. : 266RF Test Mode : WIFI mode

Test Engineer: Sam

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2	0.197 0.197	48.23 37.14	-0.09 -0.09	0.10 0.10	48. 24 37. 15	53.76		Average
3 4 5	0. 260 0. 260 0. 651	40.86 30.65 34.12	-0.09 -0.09 -0.08	0.10 0.10 0.10	40.87 30.66 34.14	51.42	-20.55 -20.76 -21.86	Average
6 7	0.651 1.367	30. 29 38. 45	-0.08 -0.10	0.10 0.10 0.10	30. 31 38. 45	46.00		Average
9	1.367 2.077	32.58 35.12	-0.10 -0.11	0.10	32.58 35.11	56.00	-20.89	
10 11 12	2. 077 8. 105 8. 105	28. 49 33. 96 26. 22	-0.11 -0.22 -0.22	0.10 0.18 0.18	28. 48 33. 92 26. 18	60.00	-26.08	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



Project No.: GTSE130300266RF

7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V02		
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		

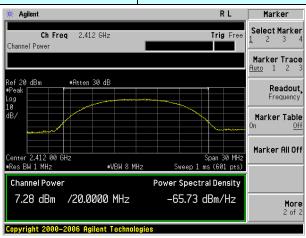
Measurement Data

Test CH		Limit(dBm)	Result			
1031 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	result
Lowest	7.28	7.20	6.90	6.00		Pass
Middle	7.18	7.11	6.82	5.97	30.00	
Highest	7.17	7.00	6.94	5.85		

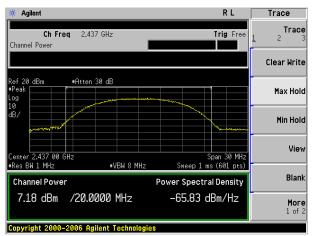


Test plot as follows:

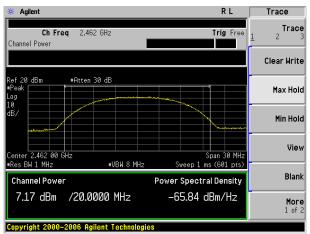
Test mode: 802.11b



Lowest channel



Middle channel

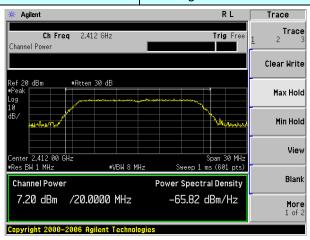


Highest channel

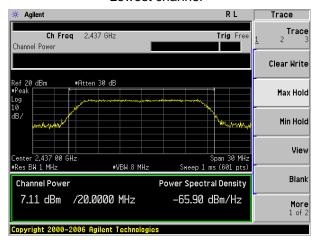
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



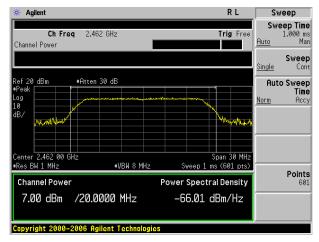
Test mode: 802.11g



Lowest channel



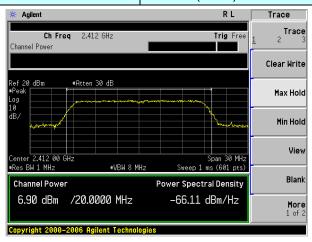
Middle channel



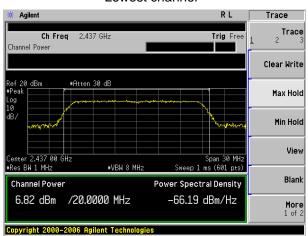
Highest channel



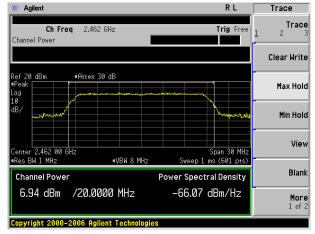
Test mode: 802.11n(HT20)



Lowest channel



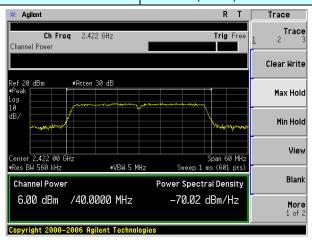
Middle channel



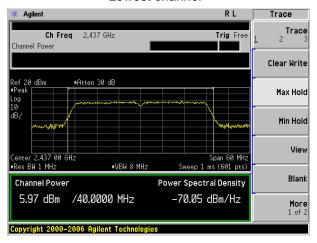
Highest channel



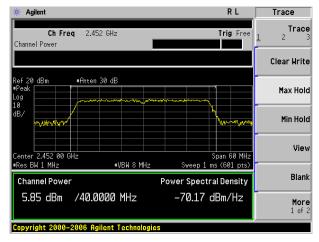
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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



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 V02		
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		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lillin(IXI IZ)	Nesuit
Lowest	10.115	16.556	17.744	36.485		Pass
Middle	10.117	16.558	17.719	36.480	>500	
Highest	10.117	16.550	17.730	36.482		

Test plot as follows:

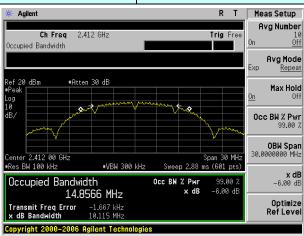
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

Project No.: GTSE130300266RF

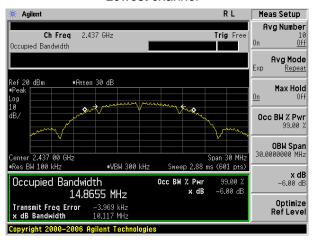
Page 18 of 63



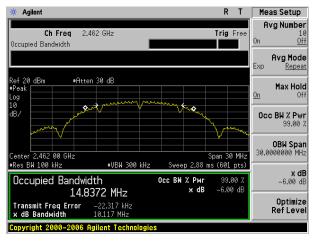
Test mode: 802.11b



Lowest channel



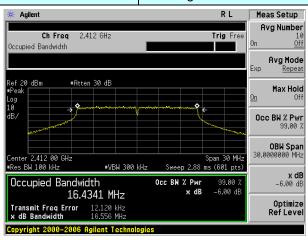
Middle channel



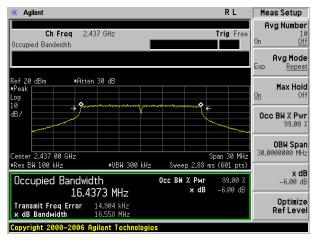
Highest channel



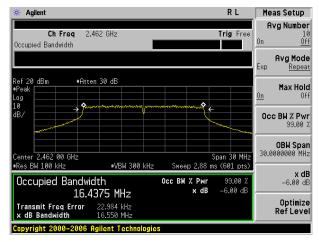
Test mode: 802.11g



Lowest channel



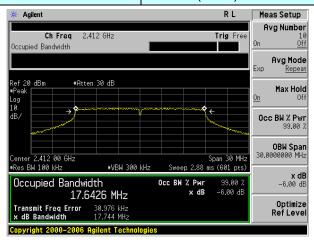
Middle channel



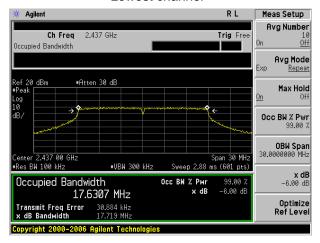
Highest channel



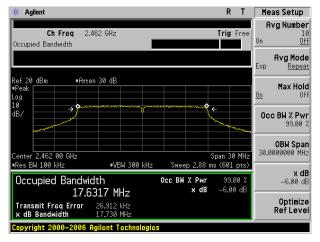
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

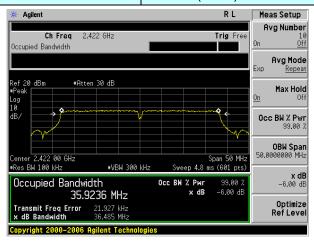


Highest channel

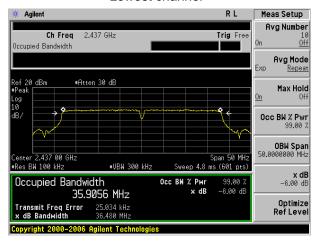


Project No.: GTSE130300266RF

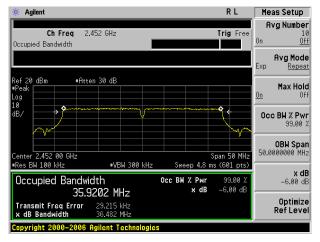
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



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 V02		
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

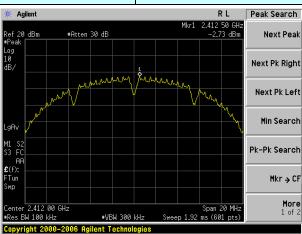
Test CH		Power Spec	Limit(KHz)	Result		
Test Off	802.11b	802.11g	Littit(Ki iz)	Result		
Lowest	-2.73	-7.76	-9.66	-13.29		Pass
Middle	-3.07	-8.42	-9.64	-13.33	8.00	
Highest	-3.59	-8.76	-9.92	-13.71		

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 23 of 63

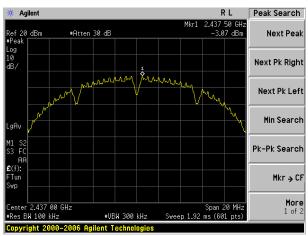


Test plot as follows:

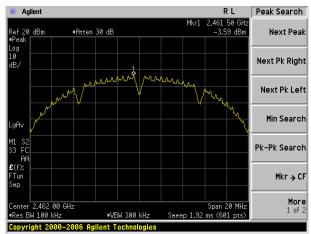
Test mode: 802.11b



Lowest channel



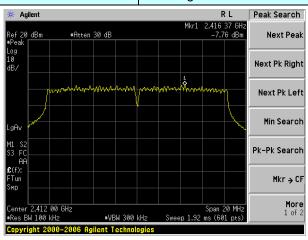
Middle channel



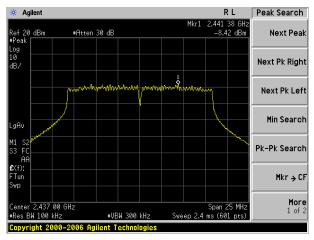
Highest channel



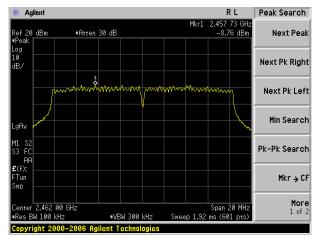
Test mode: 802.11g



Lowest channel



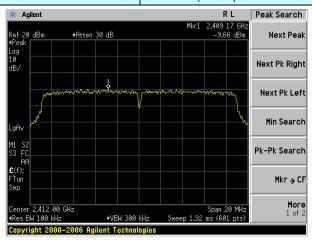
Middle channel



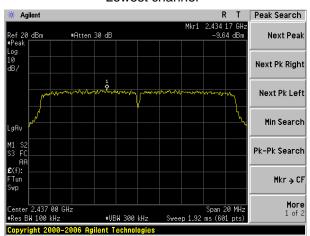
Highest channel



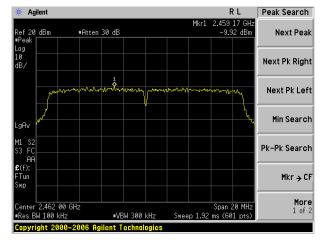
Test mode: 802.11n(HT20)



Lowest channel



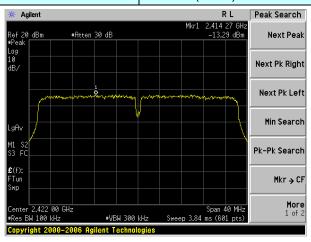
Middle channel



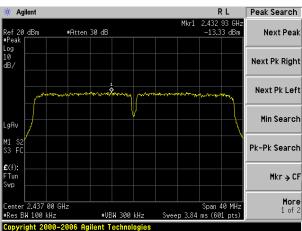
Highest channel



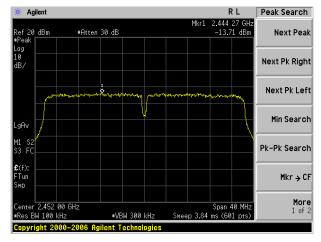
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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



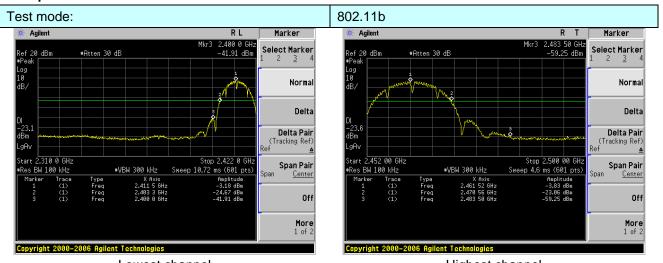
7.6 Band edges

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 V02				
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				



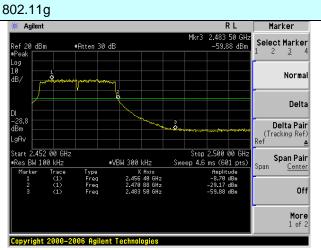
Test plot as follows:



Lowest channel

Highest channel

Lowest channel



Highest channel

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

Project No.: GTSE130300266RF

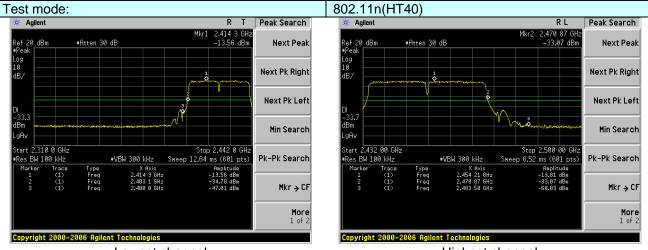
Page 29 of 63







Highest channel



Lowest channel

Highest channel

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



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.4: 2003					
Test Frequency Range:			tested, only	the worst b	and's (2310MHz to	
34, 34, 37	2500MHz) data		, ,			
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		Peak	
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier					
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi- 					
Test Instruments:	sheet. Refer to section	6.0 for details	3			
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.

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102

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



Test mode:		802.1	1b	Te	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)	I I imit	Polarization	
2390.00	50.94	27.58	3.81	34.83	47.50	74.00	-26.50	Horizontal	
2400.00	53.26	27.58	3.83	34.83	49.84	74.00	-24.16	Horizontal	
2390.00	52.04	27.58	3.81	34.83	48.60	74.00	-25.40	Vertical	
2400.00	54.34	27.58	3.83	34.83	50.92	74.00	-23.08	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)	I I imit	Polarization	
2390.00	42.94	27.58	3.81	34.83	39.50	54.00	-14.50	Horizontal	
2400.00	45.24	27.58	3.83	34.83	41.82	54.00	-12.18	Horizontal	
2390.00	44.47	27.58	3.81	34.83	41.03	54.00	-12.97	Vertical	
2400.00	47.37	27.58	3.83	34.83	43.95	54.00	-10.05	Vertical	
F									
Test mode: 802.11b Test channel: Highest									
Peak value:	!	1		1	·	1	1	1	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization	
2483.50	51.39	27.52	3.89	34.86	47.94	74.00	-26.06	Horizontal	
2500.00	48.57	27.55	3.90	34.87	45.15	74.00	-28.85	Horizontal	
2483.50	52.57	27.52	3.89	34.86	49.12	74.00	-24.88	Vertical	
2500.00	51.58	27.55	3.90	34.87	48.16	74.00	-25.84	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)	I I Imit	Polarization	
2483.50	41.07	27.52	3.89	34.86	37.62	54.00	-16.38	Horizontal	
2500.00	37.57	27.55	3.90	34.87	34.15	54.00	-19.85	Horizontal	
2483.50	43.55	27.52	3.89	34.86	40.10	54.00	-13.90	Vertical	
2500.00	39.14	27.55	3.90	34.87	35.72	54.00	-18.28	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



Test mode:	802.1	1g		Tes	t channel:	Lowest			
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Cable Factor Loss (dB/m) (dB)		Pream Facto (dB)	r or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	48.84	27.58	3.81	34.83	34.83 45.4		74.00	-28.60	Horizontal
2400.00	51.16	27.58	3.83	34.83		47.74	74.00	-26.26	Horizontal
2390.00	51.36	27.58 3.81		34.83	34.83 47.92		74.00	-26.08	Vertical
2400.00	52.88	27.58	3.83	34.83	3	49.46	74.00	-24.54	Vertical
Average va	lue:	•	•					•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	38.37	27.58	3.81	34.83	34.83 34.93		54.00	-19.07	Horizontal
2400.00	40.41	27.58	3.83	34.83	3	36.99	54.00	-17.01	Horizontal
2390.00	39.89	27.58	3.81	34.83	3	36.45	54.00	-17.55	Vertical
2400.00	41.12	27.58	3.83	34.83	3	37.70	54.00	-16.30	Vertical
Test mode:	Test mode:		11g		Tes	t channel:		Highest	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization

Average value:

2483.50

2500.00

2483.50

2500.00

48.89

45.57

50.98

48.47

27.52

27.55

27.52

27.55

3.89

3.90

3.89

3.90

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	39.24	27.52	3.89	34.86	35.79	54.00	-18.21	Horizontal
2500.00	37.34	27.55	3.90	34.87	33.92	54.00	-20.08	Horizontal
2483.50	41.54	27.52	3.89	34.86	38.09	54.00	-15.91	Vertical
2500.00	38.94	27.55	3.90	34.87	35.52	54.00	-18.48	Vertical

34.86

34.87

34.86

34.87

45.44

42.15

47.53

45.05

74.00

74.00

74.00

74.00

-28.56

-31.85

-26.47

-28.95

Horizontal

Horizontal

Vertical

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



Report No.: GTSE13030026601

Test mode:			802.1	1n(HT20)		Tes	st channel:	Lowest			
Peak value:									•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)		Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Lin (dBuV/m	I I imit		
2390.00	48.99	27.58		7.58 3.81		3	45.55	74.00	-28.45	5 Horizontal	
2400.00	50.47	27	7.58	3.83	34.8	3	47.05	74.00	-26.95	5 Horizontal	
2390.00	45.27	27	7.58	3.81	34.8	3	41.83	74.00	-32.17	Vertical	
2400.00	47.11	27.58		3.83	34.83		43.69	74.00	-30.31	Vertical	
Average va	lue:						•				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)		Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Lin (dBuV/m	I I imit	Polarization	
2390.00	39.87	27.58		3.81	34.83		36.43	54.00	-17.57	' Horizontal	
2400.00	41.67	27.58		3.83	34.8	34.83 38		54.00	-15.75	Horizontal	
2390.00	35.24	27	7.58	3.81	34.8	34.83 31.80		54.00	-22.20	Vertical	
2400.00	37.44	27	7.58	3.83	34.8	3	34.02	54.00	-19.98	Vertical	
Test mode:	Test mode: 802		802.1	1n(HT20)		Tes	st channel:		Highest		
Peak value:											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)		Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Lin (dBuV/m	I I imit		
2483.50	47.49	27	7.52	3.89	34.86		44.04	74.00	-29.96	6 Horizontal	
2500.00	45.34	27.55		3.90	34.87		41.92	74.00	-32.08	B Horizontal	
2483.50	49.87	27	7.52	3.89	34.86		46.42	74.00	-27.58	3 Vertical	
2500.00	46.83	27	7.55	3.90	34.8	7	43.41	74.00	-30.59	Vertical	
Average va	lue:										

Frequency

(MHz)

(dBuV) (dB/m) (dB) (dB) (dB) 2483.50 38.87 27.52 3.89 34.86 35.42 54.00 -18.58 Horizontal Horizontal 2500.00 36.44 27.55 3.90 34.87 33.02 -20.98 54.00 2483.50 40.09 27.52 3.89 34.86 36.64 54.00 -17.36 Vertical 2500.00 37.98 27.55 3.90 34.87 34.56 54.00 -19.44 Vertical

Preamp

Factor

Level

(dBuV/m)

Remark:

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

Cable

Loss

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

Global United Technology Services Co., Ltd.

Read

Level

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

Shenzhen, China 518102

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

Antenna

Factor

Over

Limit

Polarization

Limit Line

(dBuV/m)



Test mode:

Report No.: GTSE13030026601

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	50.18	27.58	3.81 34.83		46.74	74.00	-27.26	Horizontal
2400.00	50.67	27.58	3.83	34.83	47.25	74.00	-26.75	Horizontal
2390.00	51.67	27.58	3.81	34.83	48.23	74.00	-25.77	Vertical
2400.00	54.77	27.58	3.83	34.83	51.35	74.00	-22.65	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Level Factor Loss Fa		Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	40.97	27.58	3.81	34.83	37.53	54.00	-16.47	Horizontal
2400.00	43.57	27.58	3.83	34.83	40.15	54.00	-13.85	Horizontal
2390.00	41.87	27.58	3.81	34.83	38.43	54.00	-15.57	Vertical
2400.00	43.77	27.58	3.83	34.83	40.35	54.00	-13.65	Vertical
Test mode:		802.1	1n/UT/0\	(HT40) Test channel			الموامية	
		002.1	111(11140)	i e:	st channel:	F	lighest	
Peak value:	:	002.1	111(11140)	i es	st channel:		ngnest	
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
Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polarization Horizontal
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)	
Frequency (MHz) 2483.50	Read Level (dBuV) 52.08	Antenna Factor (dB/m) 27.52	Cable Loss (dB)	Preamp Factor (dB) 34.86	Level (dBuV/m) 48.63	Limit Line (dBuV/m) 74.00	Over Limit (dB) -25.37	Horizontal
Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 52.08 48.34	Antenna Factor (dB/m) 27.52 27.55	Cable Loss (dB) 3.89 3.90	Preamp Factor (dB) 34.86 34.87	Level (dBuV/m) 48.63 44.92	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -25.37 -29.08	Horizontal Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50	Read Level (dBuV) 52.08 48.34 52.08 48.89	Antenna Factor (dB/m) 27.52 27.55 27.52	Cable Loss (dB) 3.89 3.90 3.89	Preamp Factor (dB) 34.86 34.87 34.86	Level (dBuV/m) 48.63 44.92 48.63	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -25.37 -29.08 -25.37	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	Read Level (dBuV) 52.08 48.34 52.08 48.89	Antenna Factor (dB/m) 27.52 27.55 27.52	Cable Loss (dB) 3.89 3.90 3.89	Preamp Factor (dB) 34.86 34.87 34.86	Level (dBuV/m) 48.63 44.92 48.63	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -25.37 -29.08 -25.37	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency	Read Level (dBuV) 52.08 48.34 52.08 48.89 Iue:	Antenna Factor (dB/m) 27.52 27.55 27.52 27.55	Cable Loss (dB) 3.89 3.90 3.89 Cable Loss	Preamp Factor (dB) 34.86 34.87 34.86 34.87 Preamp Factor	Level (dBuV/m) 48.63 44.92 48.63 45.47	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 T4.00	Over Limit (dB) -25.37 -29.08 -25.37 -28.53 Over Limit	Horizontal Horizontal Vertical Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	Read Level (dBuV) 52.08 48.34 52.08 48.89 Iue: Read Level (dBuV)	Antenna Factor (dB/m) 27.52 27.55 27.52 27.55 Antenna Factor (dB/m)	Cable Loss (dB) 3.89 3.90 3.89 Cable Loss (dB)	Preamp Factor (dB) 34.86 34.87 34.86 34.87 Preamp Factor (dB)	Level (dBuV/m) 48.63 44.92 48.63 45.47 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -25.37 -29.08 -25.37 -28.53 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	Read Level (dBuV) 52.08 48.34 52.08 48.89 Iue: Read Level (dBuV) 41.08	Antenna Factor (dB/m) 27.52 27.55 27.52 27.55 Antenna Factor (dB/m) 27.52	Cable Loss (dB) 3.89 3.90 Cable Loss (dB) 3.89	Preamp Factor (dB) 34.86 34.87 34.86 34.87 Preamp Factor (dB) 34.86	Level (dBuV/m) 48.63 44.92 48.63 45.47 Level (dBuV/m) 37.63	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Over Limit (dB) -25.37 -29.08 -25.37 -28.53 Over Limit (dB) -16.37	Horizontal Horizontal Vertical Vertical Polarization Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 52.08 48.34 52.08 48.89 Iue: Read Level (dBuV) 41.08 39.75	Antenna Factor (dB/m) 27.52 27.55 27.52 27.55 Antenna Factor (dB/m) 27.52 27.55	Cable Loss (dB) 3.89 3.90 Cable Loss (dB) 3.89 3.90	Preamp Factor (dB) 34.86 34.87 34.86 34.87 Preamp Factor (dB) 34.86 34.87	Level (dBuV/m) 48.63 44.92 48.63 45.47 Level (dBuV/m) 37.63 36.33	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Cimit Line (dBuV/m) 54.00 54.00	Over Limit (dB) -25.37 -29.08 -25.37 -28.53 Over Limit (dB) -16.37 -17.67	Horizontal 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,

Shenzhen, China 518102

^{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.



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 V02					
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					

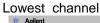
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

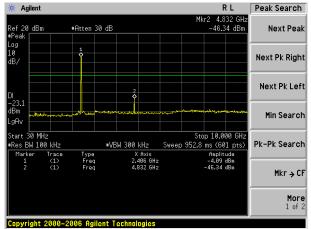


Test plot as follows:

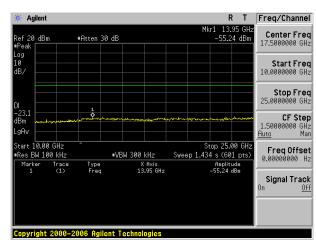
Test mode:

802.11b



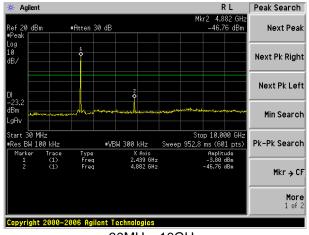


30MHz~10GHz

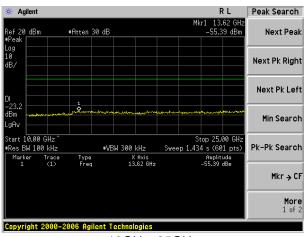


10GHz~25GHz

Middle channel

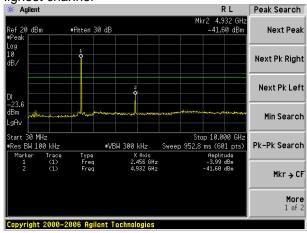


30MHz~10GHz

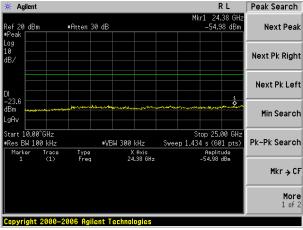


10GHz~25GHz





30MHz~10GHz



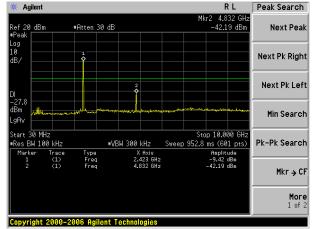
10GHz~25GHz



Test mode:

802.11g

Lowest channel

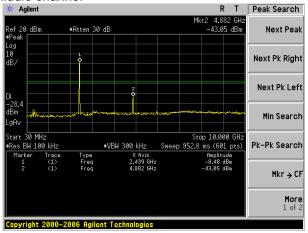


30MHz~10GHz

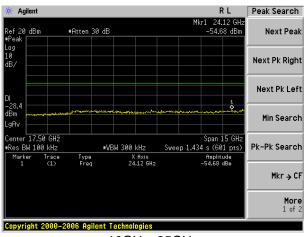
Agilent Peak Search #Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search gΑν Start 10.00 GHz •Res BW 100 kHz Stop 25.00 GHz Sweep 1.434 s (601 pts) . VBW 300 kHz Pk-Pk Search Type Freq X Axis 24.90 GHz Mkr → CF More 1 of 2 Copyright 2000-2006 Agilent Technologies

10GHz~25GHz

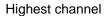
Middle channel

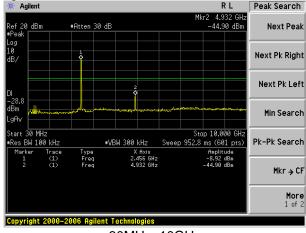


30MHz~10GHz

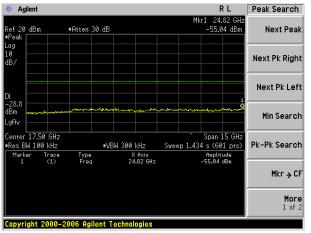


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



R L

Stop 25.00 GH: Sweep 1.434 s (601 pts)

R L

Peak Search

Next Pk Right

Next Pk Left

Min Search

Mkr → CF

More 1 of 2

Pk-Pk Search

Peak Search

Next Peak

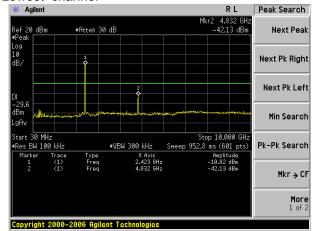
Test mode:

802.11n(HT20)

Agilent

Start 10.00 GHz •Res BW 100 kHz

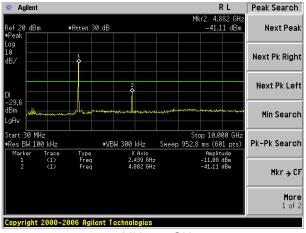
Lowest channel



30MHz~10GHz

#Atten 30 dB

Middle channel



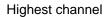
30MHz~10GHz

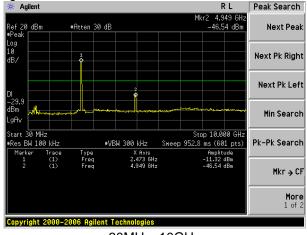
Next Peak #Atten 30 dB Next Pk Right Next Pk Left Min Search Start 10.00 GHz Stop 25.00 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz Type Freq X Axis 24.62 GHz Trace (1) Amplitude -54.81 dBm Mkr → CF Converget 2000-2006 Agilent Technologies

X Axis 14.68 GHz

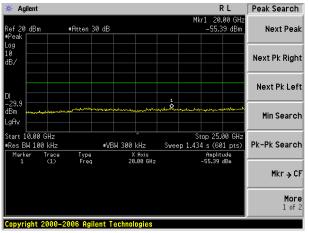
10GHz~25GHz

10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

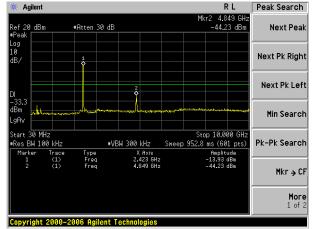
Shenzhen, China 518102



Test mode:

802.11n(HT40)

Lowest channel

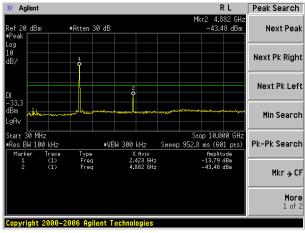


30MHz~10GHz

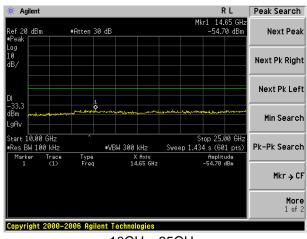
Peak Search Mkr1 14.15 GH: -55.09 dBm #Atten 30 dB Next Peak Ref 20 dBm Next Pk Right Next Pk Left Min Search Start 10.00 GHz Stop 25.00 GH; Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search Res BW 100 kH: Type Freq Amplitude -55.09 dBm X Axis 14.15 GHz Mkr → CF More 1 of 2 Copyright 2000-2006 Agilent Technologies

10GHz~25GHz

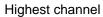
Middle channel

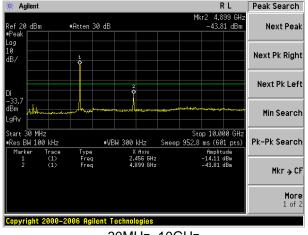


30MHz~10GHz

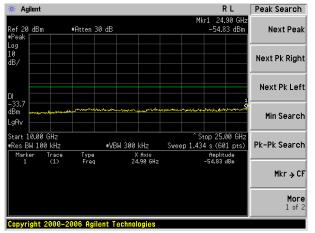


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209									
Test Method:	ANSI C63.4: 200	3									
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Dis	Measurement Distance: 3m									
Receiver setup:	Frequency	Detector	RBW	VBW	Value						
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak						
	Above 1GHz	Above 1GHz Peak 1MHz 3MHz Peak									
	Above 19112	Peak 1MHz 10Hz Average									
Limit:	Frequen	icy l	_imit (dBuV	/m @3m)	Value						
	30MHz-88	30MHz-88MHz 40.00 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	211-7	54.0	0	Average						
	Above ic	51 12	74.0	0	Peak						
	Tum Table 0.8m A Ground Plane — Above 1GHz	4m		Search Antenna RF Test Receiver							
	EUT → 3m EUT → 10.8m	4m 1	Ho Spec	rn Antenna etrum							

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.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	 The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	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.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

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



Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
33.80	41.23	15.78	0.59	32.06	25.54	40.00	-14.46	Vertical
139.85	51.61	11.37	1.50	31.94	32.54	43.50	-10.96	Vertical
202.81	47.53	13.70	1.86	32.14	30.95	43.50	-12.55	Vertical
315.48	52.77	16.30	2.44	32.13	39.38	46.00	-6.62	Vertical
495.93	48.60	18.52	3.29	31.58	38.83	46.00	-7.17	Vertical
50.94	37.56	16.31	0.78	31.96	22.69	40.00	-17.31	Horizontal
139.36	44.92	11.37	1.50	31.94	25.85	43.50	-17.65	Horizontal
247.68	53.50	15.08	2.11	32.16	38.53	46.00	-7.47	Horizontal
315.48	53.91	16.30	2.44	32.13	40.52	46.00	-5.48	Horizontal
495.93	50.44	18.52	3.29	31.58	40.67	46.00	-5.33	Horizontal



■ Above 1GHz

Test mode:		802.11b		Test o	hannel:	Lowes	t	
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	29.70	31.23	8.62	24.17	45.38	74.00	-28.62	Vertical
7236.00	29.90	35.51	11.68	26.52	50.57	74.00	-23.43	Vertical
9648.00	29.85	37.49	14.16	25.44	56.06	74.00	-17.94	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	28.94	31.13	8.62	24.17	44.52	74.00	-29.48	Horizontal
7236.00	28.59	35.61	11.68	26.52	49.36	74.00	-24.64	Horizontal
9648.00	28.85	37.39	14.16	25.44	54.96	74.00	-19.04	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average value	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	28.30	31.43	8.62	24.17	44.18	54.00	-9.82	Vertical
7236.00	22.77	35.21	11.68	26.52	43.14	54.00	-10.86	Vertical
9648.00	19.25	37.29	14.16	25.44	45.26	54.00	-8.74	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	24.84	31.23	8.62	24.17	40.52	54.00	-13.48	Horizontal
7236.00	20.69	35.51	11.68	26.52	41.36	54.00	-12.64	Horizontal
9648.00	16.15	37.39	14.16	25.44	42.26	54.00	-11.74	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.



802.11b

Test mode:

Report No.: GTSE13030026601

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	31.40	31.17	8.66	24.10	47.13	74.00	-26.87	Vertical
7311.00	30.66	35.59	11.71	26.71	51.25	74.00	-22.75	Vertical
9748.00	31.33	37.59	14.25	25.38	57.79	74.00	-16.21	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	30.07	31.27	8.66	24.10	45.90	74.00	-28.10	Horizontal
7311.00	28.11	35.69	11.71	26.71	48.80	74.00	-25.20	Horizontal
9748.00	28.34	37.69	14.25	25.38	54.90	74.00	-19.10	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	27.51	31.07	8.66	24.10	43.14	54.00	-10.86	Vertical
7311.00	21.83	35.59	11.71	26.71	42.42	54.00	-11.58	Vertical
9748.00	19.05	37.29	14.25	25.38	45.21	54.00	-8.79	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	26.17	31.17	8.66	24.10	41.90	54.00	-12.10	Horizontal
7311.00	20.81	35.69	11.71	26.71	41.50	54.00	-12.50	Horizontal
9748.00	14.64	37.69	14.25	25.38	41.20	54.00	-12.80	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Test channel:

Remark:

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

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



Test mode:		802.11b		Test	channel:	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	30.96	31.31	8.70	24.05	46.92	74.00	-27.08	Vertical
7386.00	30.85	35.91	11.76	26.90	51.62	74.00	-22.38	Vertical
9848.00	30.56	38.04	14.31	25.30	57.61	74.00	-16.39	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	28.83	31.21	8.70	24.05	44.69	74.00	-29.31	Horizontal
7386.00	28.07	35.91	11.76	26.90	48.84	74.00	-25.16	Horizontal
9848.00	27.90	37.94	14.31	25.30	54.85	74.00	-19.15	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average valu	ie:							
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	27.04	31.01	8.70	24.05	42.70	54.00	-11.30	Vertical
7386.00	24.11	35.61	11.76	26.90	44.58	54.00	-9.42	Vertical
9848.00	18.44	37.94	14.31	25.30	45.39	54.00	-8.61	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	25.33	31.11	8.70	24.05	41.09	54.00	-12.91	Horizontal
7386.00	21.07	35.91	11.76	26.90	41.84	54.00	-12.16	Horizontal
9848.00	14.20	37.94	14.31	25.30	41.15	54.00	-12.85	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11g		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	29.05	30.98	8.62	24.17	44.48	74.00	-29.52	Vertical
7236.00	30.00	35.36	11.68	26.52	50.52	74.00	-23.48	Vertical
9648.00	30.51	37.24	14.16	25.44	56.47	74.00	-17.53	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	25.93	31.86	8.61	24.17	42.23	74.00	-31.77	Horizontal
7236.00	27.01	36.36	11.68	26.52	48.53	74.00	-25.47	Horizontal
9648.00	27.56	38.34	14.16	25.44	54.62	74.00	-19.38	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average valu	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	20.35	31.28	8.62	24.17	36.08	54.00	-17.92	Vertical
7236.00	21.80	35.36	11.68	26.52	42.32	54.00	-11.68	Vertical
9648.00	17.21	37.44	14.16	25.44	43.37	54.00	-10.63	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	17.16	31.76	8.61	24.17	33.36	54.00	-20.64	Horizontal
7236.00	17.87	36.46	11.68	26.52	39.49	54.00	-14.51	Horizontal
9648.00	19.20	38.24	14.16	25.44	46.16	54.00	-7.84	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Report No.: GTSE13030026601

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	29.28	31.12	8.66	24.10	44.96	74.00	-29.04	Vertical
7311.00	30.27	35.54	11.71	26.71	50.81	74.00	-23.19	Vertical
9748.00	29.75	37.34	14.25	25.38	55.96	74.00	-18.04	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	27.25	32.12	8.66	24.12	43.91	74.00	-30.09	Horizontal
7311.00	26.94	36.44	11.71	26.71	48.38	74.00	-25.62	Horizontal
9748.00	27.95	38.44	14.25	25.38	55.26	74.00	-18.74	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average valu	ie:							
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	21.98	31.22	8.66	24.10	37.76	54.00	-16.24	Vertical
7311.00	21.77	35.74	11.71	26.71	42.51	54.00	-11.49	Vertical
9748.00	16.35	37.54	14.25	25.38	42.76	54.00	-11.24	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	17.85	32.02	8.66	24.12	34.41	54.00	-19.59	Horizontal
7311.00	17.78	36.64	11.71	26.71	39.42	54.00	-14.58	Horizontal
9748.00	18.57	38.54	14.25	25.38	45.98	54.00	-8.02	Horizontal
12185.00	*		_			54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11g		Test	channel:	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	29.82	30.96	8.70	24.05	45.43	74.00	-28.57	Vertical
7386.00	30.09	35.76	11.76	26.90	50.71	74.00	-23.29	Vertical
9848.00	29.43	37.89	14.31	25.30	56.33	74.00	-17.67	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	26.81	31.96	8.70	24.05	43.42	74.00	-30.58	Horizontal
7386.00	27.28	36.76	11.76	26.90	48.90	74.00	-25.10	Horizontal
9848.00	25.17	38.59	14.31	25.30	52.77	74.00	-21.23	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average valu	ie:							
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	22.22	31.16	8.70	24.05	38.03	54.00	-15.97	Vertical
7386.00	21.39	35.76	11.76	26.90	42.01	54.00	-11.99	Vertical
9848.00	14.93	37.89	14.31	25.30	41.83	54.00	-12.17	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	17.26	32.26	8.70	24.05	34.17	54.00	-19.83	Horizontal
7386.00	17.96	36.86	11.76	26.90	39.68	54.00	-14.32	Horizontal
9848.00	15.79	38.69	14.31	25.30	43.49	54.00	-10.51	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11n(H	T20)	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	30.32	31.94	8.62	24.17	46.71	74.00	-27.29	Vertical
7236.00	31.59	36.34	11.68	26.52	53.09	74.00	-20.91	Vertical
9648.00	30.26	38.22	14.16	25.44	57.20	74.00	-16.80	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	31.11	30.72	8.61	24.17	46.27	74.00	-27.73	Horizontal
7236.00	31.16	34.81	11.68	26.52	51.13	74.00	-22.87	Horizontal
9648.00	33.45	37.00	14.16	25.44	59.17	74.00	-14.83	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average value	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	26.12	32.14	8.62	24.17	42.71	54.00	-11.29	Vertical
7236.00	24.89	36.38	11.68	26.52	46.43	54.00	-7.57	Vertical
9648.00	19.06	38.23	14.16	25.44	46.01	54.00	-7.99	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.51	30.72	8.61	24.17	41.67	54.00	-12.33	Horizontal
7236.00	24.36	34.81	11.68	26.52	44.33	54.00	-9.67	Horizontal
9648.00	19.25	37.00	14.16	25.44	44.97	54.00	-9.03	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Test mode:

Report No.: GTSE13030026601

Middle

rest mode.		002.1111(11	120)	1030	criaririer.	iviida	10	
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	32.54	29.88	8.66	24.10	46.98	74.00	-27.02	Vertical
7311.00	30.58	36.50	11.71	26.71	52.08	74.00	-21.92	Vertical
9748.00	30.04	38.43	14.25	25.38	57.34	74.00	-16.66	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	31.74	30.62	8.61	24.17	46.80	74.00	-27.20	Horizontal
7311.00	30.00	35.10	11.71	26.71	50.10	74.00	-23.90	Horizontal
9748.00	30.75	37.00	14.25	25.38	56.62	74.00	-17.38	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	28.44	31.98	8.66	24.10	44.98	54.00	-9.02	Vertical
7311.00	22.18	36.60	11.71	26.71	43.78	54.00	-10.22	Vertical
9748.00	17.94	38.41	14.25	25.38	45.22	54.00	-8.78	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	27.14	30.62	8.61	24.17	42.20	54.00	-11.80	Horizontal
7311.00	23.80	35.10	11.71	26.71	43.90	54.00	-10.10	Horizontal
9748.00	17.25	37.00	14.25	25.38	43.12	54.00	-10.88	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Test channel:

Remark:

802.11n(HT20)

Shenzhen, China 518102

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

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



Test mode:		802.11n(H	T20)	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	31.36	32.03	8.70	24.05	48.04	74.00	-25.96	Vertical
7386.00	31.91	36.64	11.76	26.90	53.41	74.00	-20.59	Vertical
9848.00	30.66	38.75	14.31	25.30	58.42	74.00	-15.58	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	30.56	30.58	8.66	24.12	45.68	74.00	-28.32	Horizontal
7386.00	30.15	35.32	11.76	26.90	50.33	74.00	-23.67	Horizontal
9848.00	29.79	37.45	14.31	25.30	56.25	74.00	-17.75	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average valu	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	26.86	32.04	8.70	24.05	43.55	54.00	-10.45	Vertical
7386.00	23.01	36.64	11.76	26.90	44.51	54.00	-9.49	Vertical
9848.00	17.26	38.79	14.31	25.30	45.06	54.00	-8.94	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	25.96	30.58	8.66	24.12	41.08	54.00	-12.92	Horizontal
7386.00	23.75	35.32	11.76	26.90	43.93	54.00	-10.07	Horizontal
9848.00	17.69	37.45	14.31	25.30	44.15	54.00	-9.85	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT40)	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
4844.00	27.51	32.12	8.63	24.15	44.11	74.00	-29.89	Vertical
7266.00	28.58	36.58	11.69	26.58	50.27	74.00	-23.73	Vertical
9688.00	28.67	38.43	14.21	25.41	55.90	74.00	-18.10	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	27.75	31.52	8.63	24.15	43.75	74.00	-30.25	Horizontal
7266.00	28.59	36.08	11.69	26.58	49.78	74.00	-24.22	Horizontal
9688.00	28.91	37.83	14.21	25.41	55.54	74.00	-18.46	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
4844.00	23.31	32.12	8.63	24.15	39.91	54.00	-14.09	Vertical
7266.00	19.08	36.58	11.69	26.58	40.77	54.00	-13.23	Vertical
9688.00	15.47	38.43	14.21	25.41	42.70	54.00	-11.30	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	23.35	31.42	8.63	24.15	39.25	54.00	-14.75	Horizontal
7266.00	19.59	35.98	11.69	26.58	40.68	54.00	-13.32	Horizontal
9688.00	14.91	37.73	14.21	25.41	41.44	54.00	-12.56	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	t 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	29.10	32.05	8.66	24.10	45.71	74.00	-28.29	Vertical
7311.00	27.34	36.57	11.71	26.71	48.91	74.00	-25.09	Vertical
9748.00	27.27	38.37	14.25	25.38	54.51	74.00	-19.49	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	29.36	31.65	8.66	24.10	45.57	74.00	-28.43	Horizontal
7311.00	28.26	36.07	11.71	26.71	49.33	74.00	-24.67	Horizontal
9748.00	27.96	37.87	14.25	25.38	54.70	74.00	-19.30	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	24.90	32.05	8.66	24.10	41.51	54.00	-12.49	Vertical
7311.00	20.44	36.57	11.71	26.71	42.01	54.00	-11.99	Vertical
9748.00	15.77	38.37	14.25	25.38	43.01	54.00	-10.99	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	23.86	31.55	8.66	24.10	39.97	54.00	-14.03	Horizontal
7311.00	20.16	35.97	11.71	26.71	41.13	54.00	-12.87	Horizontal
9748.00	13.86	37.97	14.25	25.38	40.70	54.00	-13.30	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:	Test mode: 802.11n(F		T40) 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	26.85	32.08	8.68	24.08	43.53	74.00	-30.47	Vertical
7356.00	27.16	36.55	11.74	26.84	48.61	74.00	-25.39	Vertical
9808.00	27.60	38.72	14.29	25.33	55.28	74.00	-18.72	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	27.80	31.58	8.68	24.08	43.98	74.00	-30.02	Horizontal
7356.00	27.66	36.05	11.74	26.84	48.61	74.00	-25.39	Horizontal
9808.00	27.76	38.22	14.29	25.33	54.94	74.00	-19.06	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	23.25	32.08	8.68	24.08	39.93	54.00	-14.07	Vertical
7356.00	20.76	36.55	11.74	26.84	42.21	54.00	-11.79	Vertical
9808.00	14.30	38.52	14.29	25.33	41.78	54.00	-12.22	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	23.60	31.68	8.68	24.08	39.88	54.00	-14.12	Horizontal
7356.00	18.56	36.15	11.74	26.84	39.61	54.00	-14.39	Horizontal
9808.00	15.86	38.12	14.29	25.33	42.94	54.00	-11.06	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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